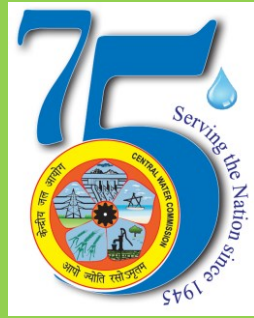




**भारत सरकार/ GOVERNMENT OF INDIA**  
**केन्द्रीय जल आयोग/ CENTRAL WATER COMMISSION**



**कृष्णा बेसीन / KRISHNA BASIN**  
**वर्ष पुस्तिका (भाग - II)**  
**WATER YEAR BOOK (Vol. II)**  
**तलछट वर्ष पुस्तिका / SEDIMENT YEAR BOOK**  
**(जून-2021 - मई-2022)**  
**(JUNE-2021 – MAY-2022)**

**कृष्णा एवं समन्वय परिमंडल / KRISHNA & CO-ORDINATION CIRCLE**  
**हैदराबाद / HYDERABAD**

**मार्च -2023**  
**March-2023**



## प्रस्तावना

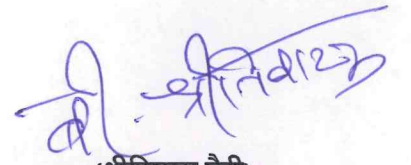
केंद्रीय जल आयोग जल विज्ञान संबंधी आंकड़ों के संग्रह के लिए सभी अंतर-राज्यीय नदी घाटियों में पूरे देश में हाइड्रोलॉजिकल अवलोकन स्टेशनों का एक विशाल नेटवर्क संचालित कर रहा है। चरण और डिस्चार्ज अवलोकन के अलावा, नदियों द्वारा किए गए निलंबित तलछट लोड और बेड सामग्री लोड, जो जल संसाधन परियोजनाओं के नियोजन और डिजाइन के लिए एक महत्वपूर्ण प्राचल है, उसे भी कई हाइड्रोलॉजिकल अवलोकन स्टेशनों पर मापा जाता है। पानी के नमूनों का विश्लेषण करने और तलछट लोड का निर्धारण करने के लिए इन साइटों पर तलछट विश्लेषण सुविधाएं स्थापित की गईं। कृष्णा बेसिन में तलछट विश्लेषण सुविधा 55 हाइड्रोलॉजिकल अवलोकन साइटों में से 27 साइटों पर उपलब्ध है।

कृष्णा बेसिन से संबंधित जल वर्ष बुक 2021-22 तीन खंडों में तैयार किया गया है। वॉल्यूम I, II और III में क्रमशः नदी प्रवाह डेटा, तलछट डेटा और जल गुणवत्ता डेटा शामिल हैं। कृष्णा बेसिन के लिए प्रकाशित एक तलछट वर्ष बुक (वॉल्यूम - II) के तलछट लोड डेटा में दैनिक ग्रेड-वार अवेजान तलछट एकाग्रता, वार्षिक तलछट लोड, वार्षिक तलछट लोड बार चार्ट और औसत मौसमी तलछट लोड के वितरण को दर्शाने वाले पाई चार्ट जो इन स्टेशनों के स्थापना से लेकर उपलब्ध है और वर्ष 2021-22 मौसमी तलछट लोड शामिल हैं। प्रत्येक अवलोकन साइट के लिए, एक वृत्तांत शीट जिसमें स्थान की जानकारी और साइट की अन्य सामान्य विशेषताएं शामिल हैं।

जैसा कि परियोजनाओं की योजना और आकार देना विश्वसनीय डेटा की उपलब्धता पर आधारित है, यह आशा है कि यह खंड विभिन्न सरकारी और गैर-सरकारी एजेंसियों के लिए काम में आएगा।

हैदराबाद

मार्च 2023



(श्रीनिवासू बैरी)

अधीक्षण अभियंता





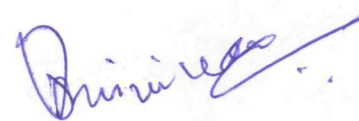
## PREFACE

The Central Water Commission is operating a vast network of hydrological observation stations throughout the country in all the inter-state river basins for collection of hydrological data. Apart from stage and discharge observations, the suspended sediment load & bed material load carried by the rivers, which is an important parameter for the planning and design of water resources projects are also measured at many of the hydrological observation stations. Sediment analysis facilities were set up at these sites for analysing the water samples and determining the sediment load. In Krishna basin sediment analysis facility is available at 27 sites out of 55 hydrological observation sites.

Water Year Book 2021-22 pertaining to Krishna Basin is prepared in three volumes. The Volume I, II & III contains stream flow data, Sediment data and Water Quality data respectively. The published suspended sediment load data for the for Krishna basin in the form of a Sediment Year Book (volume – II) contains the sediment data along with the daily grade-wise suspended sediment concentration, annual sediment load, annual sediment load bar chart, pie charts showing distribution of average seasonal sediment load from inception and seasonal sediment load for year 2021-22. For each of the observation site, a history sheet containing information on the location and other general features of the site are also included.

As planning and sizing of projects are based on the availability of reliable data, it is hoped that this volume serves the purpose for various government and non- governmental agencies.

Hyderabad  
March 2023

  
(Srinivasu Bairy)  
Superintending Engineer



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**कृष्णा नदी क्षेत्र**  
**निलंबित तलछट डेटा (खंड - II)**  
**जून 2021 - मई 2022**

**1.0 कृष्णा बेसिन में निलंबित तलछट डेटा संग्रह**

कृष्णा नदी और उसकी सहायक नदियों में निलंबित तलछट की सघनता की माप केंद्रीय जल आयोग के द्वारा 1965-66 से चयनित निर्वहन स्थलों पर नदी के पानी के नमूने लेकर की जा रही है। एकत्र किए गए नदी के पानी के नमूनों का विश्लेषण मोटे, मध्यम और महीन ग्रेड वाली तलछट एकाग्रता का आकलन करने के लिए किया जाता है। एक विशेष तलछट अवलोकन स्टेशन पर नदी की सतह से गुजरने वाले निलंबित तलछट भार को तलछट एकाग्रता और पानी के निर्वहन से निर्धारित किया जाता है। कृष्णा बेसिन में केंद्रीय जल आयोग के सभी तलछट अवलोकन स्टेशनों के स्थानों को बेसिन के सूचकांक मानचित्र में दर्शाया गया है।

**1.1 जानकारी का स्रोत**

2021-22 के दौरान कृष्णा बेसिन में 27 महत्वपूर्ण स्टेशनों पर निलंबित तलछट डेटा अवलोकन किए गए। इस प्रकाशन में प्रस्तुत सभी आंकड़े 27 तलछट अवलोकन स्टेशनों से संबंधित हैं जोकि ऊपरी कृष्णा मण्डल, पुणे (7 स्टेशन), निचली कृष्णा मण्डल, हैदराबाद (12 स्टेशन) और कावेरी मण्डल, बेंगलूर (8 स्टेशन) द्वारा अनुरक्षित हैं।

**2.0 संग्रह की विधि**

विभिन्न जल सतह खंडों से गुजरने वाले क्रॉस-सेक्शन और निर्वहन के साथ, लगातार ऊर्ध्वाधर पर एकत्रित आधार पर पानी के नमूनों को 1, 2, 3, 4 या 5 समूहों में वर्गीकृत किया जाता है। लगातार ऊर्ध्वाधर को इतना संयोजित किया जाता है कि समग्र समूह निर्वहन बराबर या तुलनीय हो जाए। समग्र समूह निर्वहन, औसत निर्वहन एवं कुल निर्वहन का 10% की सीमा के भीतर होना चाहिए। पंजाब प्रकार की बोतल के नमूने का उपयोग करते हुए, पानी के नमूनों को एक के लिए एकत्र किया जाता है ताकि 550 मिलीलीटर से 950 मिलीलीटर की सीमा में हो तथा एकत्रित नमूने प्रत्येक समूह में पूर्व निर्धारित ऊर्ध्वाधर की 0.6 मिलीलीटर हो, जब पानी की गहराई उस ऊर्ध्वाधर में 0.80 मीटर हो और उप-सतह से गहराई 0.80 मीटर और 0.30 मीटर के बीच हो। जहां पानी की गहराई 0.30 मीटर से कम हो या कोई प्रवाह नहीं हो वहाँ नमूने को एकत्र नहीं किया जाता है।

## 2.1 आवृत्ति

मानसून अवधि के दौरान तलछट विश्लेषण के लिए पानी के नमूने हर दिन एकत्र किए जाते हैं और उनका विश्लेषण किया जाता है और गैर मानसून अवधि के दौरान सप्ताह में एक बार तलछट विश्लेषण के लिए पानी के नमूने एकत्र किए जाते हैं।

## 2.2 विश्लेषण तकनीक और डेटा की गणना

मोटे और मध्यम ग्रेड के अवसादों को छानकर नमूने से अलग किया जाता है जिसके बाद महीन ग्रेड तलछट प्राप्त करने के लिए तलछट नमूना को समन्वित और फ़िल्टर किया जाता है। ब्यूरो ऑफ इंडियन स्टैंडर्ड्स कोड IS: 6339 - 1971 के अनुसार ग्रेड की एकाग्रता का मूल्यांकन ग्रेविमेट्रिक विधि से किया जाता है। समूह-वार विश्लेषण परिणामों से, पूरे क्रॉस-सेक्शन में तलछट एकाग्रता व्युत्पन्न होती है और प्रति दिन तलछट भार की गणना जात निर्वहन द्वारा की जाती है। गैर-अवलोकन दिनों के लिए, तलछट एकाग्रता या तो तुरंत पूर्ववर्ती दिनों से तलछट एकाग्रता से सरल प्रक्षेप द्वारा अनुमान लगाया जाता है या तत्काल आसपास के क्षेत्र में छोटी अवधि के लिए व्युत्पन्न तलछट बनाम निर्वहन संबंधवक्र का उपयोग करके किया जाता है।

## 2.3 विस्तारपूर्वक लेख

प्रस्तुत आंकड़ों में निहित हाइड्रोलॉजिकल मापदंडों की व्याख्या में सहायता के लिए निम्नलिखित व्याख्यात्मक नोट दिए गए हैं।

- जल वर्ष एक कैलेंडर वर्ष के 1 जून से शुरू होता है और अगले कैलेंडर वर्ष के 31 मई तक चलता है और एक पूर्ण हाइड्रोलॉजिकल चक्र को कवर करता है।
- तलछट भार की गणना के लिए निर्वहन डाटा, जल वर्ष पुस्तक 2021-22 से लिया गया है।
- तलछट को कणों के व्यास के आधार पर मोटे, मध्यम और महीन के रूप में वर्गीकृत किया गया है:  
मोटे ग्रेड : तलछट कण आकार 0.20 मिमी व्यास से ऊपर  
मध्यम ग्रेड : तलछट कण आकार 0.075 मिमी और 0.2 मिमी व्यास के बीच  
महीन ग्रेड : तलछट कण आकार 0.075 मिमी व्यास से नीचे
- (\*) द्वारा चिह्नित तलछट एकाग्रता अनुमानित मूल्यों को दर्शाती है।

## 2.4 प्रस्तुति का तरीका

स्टेशन-वार निलंबित तलछट डाटा को इतिहास पत्र, साइट की स्थापना के बाद से वार्षिक अपवाह, दैनिक निलंबित तलछट डेटा, मौसमी और वार्षिक तलछट भार के साथ



प्रस्तुत किया जाता है। बार चार्ट वार्षिक तलछट भार दिखाता है, पाई चार्ट चालू वर्ष के लिए मौसमी तलछट भार और औसत मौसमी तलछट भार दिखाता है। निलंबित तलछट अवलोकन स्टेशनों को क्रमिक रूप से समुद्र सतह से ऊपर की और बहाने वाली नदी के साथ व्यवस्थित किया जाता है या मुख्य नदी के साथ संगम करने वाली जगह के साथ किया जाता है। इतिहास पत्र निलंबित तलछट अवलोकन स्टेशन का संक्षिप्त विवरण देता है। निलंबित तलछट भार और ऊपर वर्णित अन्य आँकड़े SWDES का उपयोग करके उत्पन्न किए जाते हैं।

### 3.0 तल सामग्री डेटा

निचली कृष्णा मण्डल, हैदराबाद के तहत बारह स्टेशनों और ऊपरी कृष्णा मण्डल पुणे के तहत सात स्टेशनों और कावेरी मण्डल, बेंगलूर के तहत आठ स्टेशनों में नमूने एकत्र किए गए, जिनका विश्लेषण डिवीजनों से जुड़ी उनकी संबंधित प्रयोगशाला में किया गया।

#### 3.1 व्याख्यात्मक टिप्पणी

नीचे दी गयी व्याख्यात्मक टिप्पणीया प्रस्तुत आंकड़ों में निहित हाइड्रोलॉजिकल मापदंडों की व्याख्या करने में सहायता प्रदान करेगी।

- जल वर्ष कैलेंडर वर्ष के एक जून से शुरू होता है और अगले कैलेंडर वर्ष के 31 मई को समाप्त होता है।
- निर्वहन डाटा, स्तर - निर्वहन सारांश से लिया जाता है।
- हाइड्रोलॉजिकल डाटा भी स्तर - निर्वहन सारांश से लिए गए हैं।

#### 3.2 संग्रह की विधि

प्रत्येक स्टेशन पर नदी की चौड़ाई के आधार पर, स्टेशन गेज लाइन पर तीन से सात नमूने एकत्र किए जाते हैं। स्कूप टाइप बेड मटीरियल सैंपलर का उपयोग बहने वाले चैनल से नमूना एकत्र करने के लिए किया जाता है। सूखे / गीले तल से, स्थानीय संदूषण से बचने के लिए तीन से छह इंच तक तल की ऊपरी परत को खुरचने के बाद नमूने एकत्र किए जाते हैं। नमूनों को बड़ी मात्रा में एकत्र किया जाता है। उनके सूख जाने के बाद लगभग एक किलोग्राम का प्रतिनिधि नमूना, उत्तल प्रक्रिया और क्वार्टरिंग प्रक्रिया के माध्यम से अलग किया जाता है। इस प्रकार, नमूना, एकत्र किया जाता है और हाइड्रोलिक मापदंडों के विवरण के साथ पैक किया जाता है और मण्डल प्रयोगशाला में ले जाया जाता है।

#### 3.3 तल सामग्री सर्वेक्षण की आवृत्ति

चयनित क्षेत्र स्टेशनों पर तल सामग्री सर्वेक्षण (जहां तलछट अवलोकन किया जाता है) आम तौर पर एक वर्ष में तीन बार आयोजित किया जाता है, अर्थात्, मानसून से पहले

(मानसून की शुरुआत से पहले), मानसून के दौरान (आमतौर पर बड़ी बाढ़ की पुनरावृत्ति के बाद) और मानसून के बाद (मानसून अवधि के अंत के बाद)।

### 3.4 विश्लेषण तकनीक और डेटा की गणना

मंडलीय प्रयोगशाला में प्राप्त नमूनों को मानक छलनियों के सेट के माध्यम से छाना जाता है। पुरी के सिल्टोमीटर का उपयोग करके 0.6 मिमी व्यास की छलनी से गुजरने वाले नमूने का फिर से "गीली प्रक्रिया" द्वारा विश्लेषण किया जाता है। कण आकार वितरण वक्र के क्षेत्र को 100 से विभाजित करके नमूना का व्यास ज्ञात किया जाता है। प्रत्येक नमूने के लिए कण आकार वितरण वक्र, व्यास मिमी में (X-अक्ष पर) और योग प्रतिशत (Y-अक्ष) के आधार पर तैयार किया गया है। इस वक्र का एक सौवां भाग नमूने का माध्य व्यास देता है। कुल नमूने के कणों के औसत माध्य व्यास के आधार पर गाद कारक की गणना की जाती है। गाद कारक "f" को निम्न के रूप में परिभाषित किया गया है:

$$f = 1.76 \sqrt{m}$$

जहां 'm' स्टेशन गेज लाइन पर नदी के क्रॉस-सेक्शन के साथ विभिन्न स्थानों पर एकत्र किए गए तल सामग्री नमूनों के कणों के माध्य व्यास का औसत है। तल पदार्थों के कणों का आकार और उनकी संरचना, नदी तल के खुरदरेपन को प्रभावित करती है। खुरदरापन और अन्य हाइड्रोलिक पैरामीटर नदी के घुमाव और ब्रेडिंग को प्रभावित करते हैं। गाद कारक 'f' का उपयोग विभिन्न समीकरणों के सहसंबंध के लिए किया जाता है।

### 3.5 प्रस्तुति का तरीका

हाइड्रोलॉजिकल अवलोकन स्टेशनों को क्रमिक रूप से समुद्र सतह से ऊपर की और बहने वाली नदी के साथ व्यवस्थित किया जाता है या मुख्य नदी के साथ संगम करने वाली जगह के साथ किया जाता है। साथ ही मध्यवर्ती सहायक नदियों पर स्थित साइटों को भी उचित प्राथमिकता दी जाती है। डेटा पूर्व-मानसून अवधि से शुरू होता है और मानसून के अंत के बाद की अवधि के साथ समाप्त होता है। यह डेटा औसत माध्य व्यास 'm' और गाद कारक 'f' देता है।

**KRISHNA BASIN  
SUSPENDED SEDIMENT DATA (VOLUME II)  
(JUNE 2021 - MAY 2022)**

**1.0 Suspended Sediment Data collection in Krishna Basin.**

Measurements of suspended sediment concentration in the river Krishna and its tributaries are being conducted by taking river water samples at selected discharge measuring sites since 1965-66 by the field formation of Central Water Commission. The river water samples collected are analyzed to assess the coarse, medium and fine grade sediment concentration. The suspended sediment load passing through the river cross-section at a particular sediment observation station is determined from the sediment concentration and water discharge. Locations of all the sediment observation stations of Central Water Commission in the Krishna Basin are indicated in the index map of the basin.

**1.1 Source of information.**

Suspended sediment data observations are carried out at 27 important stations in the Krishna basin during 2021-22. All the data presented in this publication relates to the 27 sediment observation stations being maintained by the Upper Krishna Division, Pune (7 Stations), Lower Krishna Division, Hyderabad (12 Stations) and Cauvery Division, Bangalore (8 Stations) of Central Water Commission.

**2.0 Method of collection.**

With the knowledge of cross-section and discharge passing through different segments, water samples collected at consecutive verticals are grouped in 1, 2, 3, 4 or 5 composite groups. Consecutive verticals are to be so combined that the composite group discharges become equal or comparable. The composite group discharge should be within the limit of average discharge  $\pm 10\%$  of total discharge. Using Punjab type bottle sampler, water samples are collected for a fixed time so that the volume of collected sample is in the range of 550 ml to 950 ml from the predetermined verticals in each group at 0.6 depth when the depth of water at that vertical is 0.80 m and above and from sub-surface when the depth is between 0.80 m

and 0.30 m. No sample is collected at verticals where the depth of water is less than 0.30 m or there is no flow

## **2.1 Frequency.**

The water samples for sediment analysis are collected and analysed every day during the monsoon period and once in a week during the non-monsoon period.

## **2.2 Analysis technique & computation of data**

The Coarse & Medium grades sediments are separated from the sample by sieving process after which the sediment sample is coagulated and filtered to obtain the fine grade sediment. The grade-wise concentration is evaluated by gravimetric method following Bureau of Indian standards code IS: 6339 – 1971. From group-wise analysis results, the sediment concentration in the entire cross-section is derived and sediment load per day is computed with known discharge. For the non-observation days, the sediment concentration is estimated either by simple interpolation from the sediment concentration from the days immediately preceding and succeeding the non-observation day or by using the sediment load versus discharge relationship derived for shorter periods in the immediate vicinity of the non-observation day.

## **2.3 Explanatory notes.**

The following explanatory notes are given for assistance in the interpretation of hydrological parameters contained in the data presented.

- Water year commences from 1<sup>st</sup> June of a calendar year and extends to 31<sup>st</sup> May of the next calendar year and covers one complete hydrological cycle.
- The discharge values for computing sediment load are taken from water year book 2021-2022.
- Sediment is classified as Coarse, Medium and Fine based on the diameter of the particles as indicated below:  
Coarse grade : Sediment particle size above 0.20 mm dia  
Medium grade : Sediment particle size between 0.075 mm and 0.2 mm dia  
Fine grade : Sediment particle size below 0.075 mm dia

- The sediment concentration marked by (\*) indicate estimated values.

## **2.4 Method of presentation**

Station-wise suspended sediment data is presented consisting of history sheet, daily observed suspended sediment data, seasonal and annual sediment load along with annual runoff since inception of site. Bar chart showing annual sediment load, pie charts showing average seasonal sediment load since inception and seasonal sediment load for the current year. The suspended sediment observation stations are arranged serially along the river moving upstream from the sea or confluence with main river towards its source, giving due priority to sites on intermediate tributary in a similar way. The history sheet gives brief particulars of the suspended sediment observation station. The suspended sediment load and other statistics as mentioned above are generated using SWDES.

## **3. Bed Material Data**

Total number of Bed Material Sample collection sites in Krishna Basin is 27. Samples collected in 11 stations out of 12 stations under Lower Krishna Division, Hyderabad in all 7 stations out of 7 stations under Upper Krishna Division Pune, and in 7 stations out of 8 stations under Cauvery Division, Bangalore which were analyzed in their respective laboratory attached to divisions.

### **3.1 Explanatory notes**

The explanatory notes given hereunder are expected to assist in the interpretation of hydrological parameters contained in the data presented subsequently.

- Water year commences from 1<sup>st</sup> June of a calendar and ends on 31<sup>st</sup> May of the next calendar year.
- The discharge values are taken from Stage – Discharge Summary
- The hydrological parameters are taken from Stage – Discharge Summary.

### **3.2 Method of collection**

Depending on the width of the river, three (3) to seven (7) samples are collected along the station gauge line at the station. Scoop type bed material sampler is used to collect sample from flowing channel. From dry/wet bed,

the samples are collected after scraping the upper layer of the bed up to three (3) to six (6) inches to avoid local contamination. The samples are collected in larger quantities. They are dried up and then a representative sample of about one (1) kilogram is taken through the process of coning and quartering process. The sample, thus collected, is packed and labeled with details of hydraulic parameters and transported to the Divisional laboratory.

### **3.3 Frequency of bed material survey**

Bed material survey at the selected field stations (where sediment observations are conducted) is generally conducted thrice in a year, i.e., pre-monsoon (before onset of monsoon), monsoon (generally after receding of major flood) and post-monsoon (just after the end of monsoon period).

### **3.4 Analysis technique and computation of data**

The samples received in the divisional laboratory are sieved through a set of standard sieves. The sample passing through 0.6 mm dia sieve is again analyzed by “wet process” using Puri’s Siltometer. Mean diameter of the sample is obtained by dividing the area of particle size distribution curve with 100. The particle size distribution curve for each sample is drawn by plotting summation percentage (Y-axis) against diameters in mm (X-axis). One hundredth of the area above this curve gives mean diameter of the sample.

The silt factor is then calculated from the value of the average mean diameter of particles of total sample. Silt factor ‘f’ is defined as:

$$f = 1.76 \sqrt{m}$$

Where ‘m’ is the average of mean diameter of the particles of bed material samples collected at different locations along the cross-section of the river at station gauge line. The size of bed material particles and their packing directly affect the roughness of the river bed. The roughness and other hydraulic parameters affect meandering and braiding of river regime. The values of silt factor ‘f’ are used for correlating various regime equations.

### **3.5 Method of presentation**

The Hydrological observation stations are arranged serially along the river moving upstream from the sea or confluence with main river towards its source, giving due priority to sites on intermediate tributary in a similar way. The data is presented starting from the pre-monsoon period and ending with post-monsoon period. The data gives the average mean diameter ‘m’ and silt factor ‘f’.



## HISTORY SHEET

|                          |                            |                   |                           |
|--------------------------|----------------------------|-------------------|---------------------------|
|                          |                            | <b>Water Year</b> | <b>: 2021-2022</b>        |
| <b>Site</b>              | <b>: Warunji</b>           | <b>Code</b>       | <b>: AKZ00A7</b>          |
| State                    | : Maharashtra              | District          | Satara                    |
| Basin                    | : Krishna                  | Independent River | : Krishna                 |
| Tributary                | : Koyna                    | Sub Tributary     | : -                       |
| Sub-Sub Tributary        | : -                        | Local River       | : Koyna                   |
| Division                 | : Upper Krishna Divn, Pune | Sub-Division      | : Upper Krishna SD ,Miraj |
| Drainage Area            | : 1890 Sq. Km.             | Bank              | : Left                    |
| Latitude                 | : 17°16'37"                | Longitude         | : 74°10'15"               |
| <b>Zero of Gauge (m)</b> | : 549.962 (m.s.l)          | 01-08-1963        | - 31-03-1964              |
|                          | 550.937 (m.s.l)            | 01-04-1964        | - 31-12-1971              |
|                          | 549.437 (m.s.l)            | 01-01-1972        |                           |
|                          | Opening Date               | Closing Date      |                           |
| Gauge                    | : 20-08-1963               |                   |                           |
| Discharge                | : 28-12-1966               |                   |                           |
| Sediment                 | : 01-06-1974               |                   |                           |
| Water Quality            | : 01-06-1974               |                   |                           |



**Daily Observed Sediment Datasheet for period : 2021-2022**

Station Name : Warunji ( AKZ00A7)

Local River : Koyna

Division : Upper Krishna Divn, Pune

Sub-Division : Upper Krishna SD, Miraj

| Day            | Jun          |               |               |             |              |                   | Jul          |               |               |             |              |                   | Aug          |               |               |             |              |                   |
|----------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 64.62        | 0.017         | 0.020         | 0.017       | 0.054        | 302               | 1301         | 0.121         | 0.051         | 0.021       | 0.193        | 21664             |
| 2              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 49.94        | 0.014         | 0.019         | 0.017       | 0.050        | 215               | 1159         | 0.144         | 0.053         | 0.019       | 0.215        | 21546             |
| 3              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 39.40        | 0.012         | 0.017         | 0.017       | 0.046        | 157               | 400.8        | 0.099         | 0.060         | 0.012       | 0.171        | 5912              |
| 4              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 32.33        | 0.011         | 0.016         | 0.017       | 0.044        | 122               | 435.5        | 0.064         | 0.047         | 0.010       | 0.121        | 4542              |
| 5              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 25.79        | 0.009         | 0.015         | 0.016       | 0.041        | 90                | 414.3        | 0.105         | 0.073         | 0.009       | 0.187        | 6697              |
| 6              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 29.60        | 0.000         | 0.000         | 0.007       | 0.007        | 18                | 310.3        | 0.072         | 0.022         | 0.023       | 0.117        | 3131              |
| 7              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 28.65        | 0.000         | 0.000         | 0.017       | 0.017        | 41                | 233.3        | 0.071         | 0.024         | 0.018       | 0.113        | 2275              |
| 8              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 20.01        | 0.000         | 0.000         | 0.018       | 0.018        | 31                | 314.1        | 0.047         | 0.033         | 0.019       | 0.099        | 2698              |
| 9              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 19.90        | 0.000         | 0.000         | 0.015       | 0.015        | 26                | 256.4        | 0.012         | 0.023         | 0.018       | 0.053        | 1176              |
| 10             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 29.54        | 0.000         | 0.000         | 0.021       | 0.021        | 54                | 207.2        | 0.014         | 0.024         | 0.015       | 0.052        | 925               |
| 11             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 36.69        | 0.012         | 0.017         | 0.017       | 0.045        | 143               | 133.3        | 0.034         | 0.026         | 0.018       | 0.079        | 912               |
| 12             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 48.63        | 0.009         | 0.037         | 0.022       | 0.068        | 287               | 105.3        | 0.033         | 0.028         | 0.010       | 0.071        | 646               |
| 13             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 133.0        | 0.034         | 0.023         | 0.012       | 0.069        | 795               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 14             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 105.7        | 0.025         | 0.031         | 0.023       | 0.079        | 718               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 15             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 131.1        | 0.045         | 0.036         | 0.026       | 0.106        | 1198              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 16             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 115.8        | 0.051         | 0.023         | 0.025       | 0.098        | 983               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 17             | 1156         | 0.112         | 0.049         | 0.021       | 0.182        | 18142             | 111.0        | 0.037         | 0.022         | 0.043       | 0.101        | 971               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 18             | 364.5        | 0.052         | 0.034         | 0.019       | 0.106        | 3335              | 119.2        | 0.025         | 0.024         | 0.018       | 0.067        | 694               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 19             | 681.3        | 0.079         | 0.042         | 0.020       | 0.141        | 8283              | 94.13        | 0.011         | 0.012         | 0.024       | 0.047        | 385               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 20             | 529.3        | 0.067         | 0.038         | 0.020       | 0.125        | 5721              | 241.0        | 0.010         | 0.022         | 0.028       | 0.060        | 1254              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 21             | 272.1        | 0.043         | 0.031         | 0.019       | 0.094        | 2198              | 265.5        | 0.053         | 0.028         | 0.013       | 0.094        | 2150              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 22             | 193.2        | 0.034         | 0.028         | 0.019       | 0.081        | 1356              | 1042         | 0.063         | 0.019         | 0.014       | 0.096        | 8682              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 23             | 172.3        | 0.032         | 0.027         | 0.019       | 0.078        | 1155              | 3420         | 0.229         | 0.068         | 0.023       | 0.320        | 94403             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 24             | 159.9        | 0.030         | 0.027         | 0.018       | 0.075        | 1040              | 5276         | 0.305         | 0.079         | 0.023       | 0.407        | 185437            | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 25             | 155.3        | 0.030         | 0.026         | 0.018       | 0.075        | 1000              | 2021         | 0.162         | 0.058         | 0.022       | 0.242        | 42196             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 26             | 147.8        | 0.029         | 0.026         | 0.018       | 0.073        | 933               | 1347         | 0.092         | 0.059         | 0.028       | 0.179        | 20861             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 27             | 147.8        | 0.029         | 0.026         | 0.018       | 0.073        | 933               | 1279         | 0.116         | 0.062         | 0.037       | 0.215        | 23739             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 28             | 144.8        | 0.028         | 0.026         | 0.018       | 0.073        | 907               | 1058         | 0.113         | 0.074         | 0.012       | 0.199        | 18212             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 29             | 136.1        | 0.027         | 0.025         | 0.018       | 0.071        | 832               | 891.0        | 0.120         | 0.075         | 0.026       | 0.221        | 17045             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 30             | 126.1        | 0.026         | 0.025         | 0.018       | 0.069        | 749               | 1301         | 0.123         | 0.067         | 0.016       | 0.206        | 23158             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 31             |              |               |               |             |              |                   | 1500         | 0.135         | 0.082         | 0.018       | 0.234        | 30307             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Ten Daily Mean |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Ten Daily I    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 33.98        | 0.006         | 0.009         | 0.016       | 0.031        | 106               | 503.2        | 0.075         | 0.041         | 0.016       | 0.132        | 7057              |
| Ten Daily II   | 273.1        | 0.077         | 0.041         | 0.020       | 0.138        | 8870              | 113.6        | 0.026         | 0.025         | 0.024       | 0.074        | 743               | 23.85        | 0.034         | 0.027         | 0.014       | 0.075        | 779               |
| Ten Daily III  | 165.5        | 0.031         | 0.027         | 0.018       | 0.076        | 1110              | 1764         | 0.137         | 0.061         | 0.021       | 0.219        | 42381             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Monthly        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Total          |              |               |               |             |              | 46585             |              |               |               |             |              | 474672            |              |               |               |             |              | 72123             |

Annual Sediment Load (Metric Tonnes) : 628163

**Daily Observed Sediment Datasheet for period : 2021-2022**

Station Name : Warunji ( AKZ00A7)

Local River : Koyna

Division : Upper Krishna Divn, Pune

Sub-Division : Upper Krishna SD, Miraj

| Day                   | Sep          |               |               |             |              |                   | Oct          |               |               |             |              |                   | Nov          |               |               |             |              |                   |
|-----------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                       | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 2                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 3                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 4                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 5                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 6                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 7                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 8                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 9                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 10                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 11                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 12                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 13                    | 508.0        | 0.048         | 0.031         | 0.025       | 0.104        | 4547              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 14                    | 868.9        | 0.093         | 0.029         | 0.038       | 0.161        | 12057             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 15                    | 844.6        | 0.086         | 0.030         | 0.025       | 0.141        | 10274             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 16                    | 524.3        | 0.074         | 0.021         | 0.029       | 0.124        | 5608              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 17                    | 180.9        | 0.083         | 0.035         | 0.028       | 0.147        | 2297              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 18                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 19                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 20                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 21                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 22                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 23                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 24                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 25                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 26                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 27                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 28                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 29                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 30                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 31                    |              |               |               |             |              |                   | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |              |               |               |             |              |                   |
| <b>Ten Daily Mean</b> |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| <b>Ten Daily I</b>    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| <b>Ten Daily II</b>   | 292.7        | 0.077         | 0.029         | 0.029       | 0.135        | 6957              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| <b>Ten Daily III</b>  | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| <b>Monthly</b>        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| <b>Total</b>          |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |

34783

Annual Sediment Load (Metric Tonnes) : 628163

**Daily Observed Sediment Datasheet for period : 2021-2022**

Station Name : Warunji ( AKZ00A7)

Local River : Koyna

Division : Upper Krishna Divn, Pune

Sub-Division : Upper Krishna SD, Miraj

| Day                   | Dec          |               |               |             |              |                   | Jan          |               |               |             |              |                   | Feb          |               |               |             |              |                   |
|-----------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                       | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 2                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 3                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 4                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 5                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 6                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 7                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 8                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 9                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 10                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 11                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 12                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 13                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 14                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 15                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 16                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 17                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 18                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 19                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 20                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 21                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 22                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 23                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 24                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 25                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 26                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 27                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 28                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 29                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |              |               |               |             |              |                   |
| 30                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |              |               |               |             |              |                   |
| 31                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |              |               |               |             |              |                   |
| <b>Ten Daily Mean</b> |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| <b>Ten Daily I</b>    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| <b>Ten Daily II</b>   | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| <b>Ten Daily III</b>  | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| <b>Monthly</b>        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |

Total

**Daily Observed Sediment Datasheet for period : 2021-2022**

Station Name : Warunji ( AKZ00A7)

Local River : Koyna

Division : Upper Krishna Divn, Pune

Sub-Division : Upper Krishna SD, Miraj

| Day            | Mar          |               |               |             |              |                   | Apr          |               |               |             |              |                   | May          |               |               |             |              |                   |
|----------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 2              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 3              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 4              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 5              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 6              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 7              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 8              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 9              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 10             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 11             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 12             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 13             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 14             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 15             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 16             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 17             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 18             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 19             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 20             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 21             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 22             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 23             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 24             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 25             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 26             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 27             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 28             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 29             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 30             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 31             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |              |               |               |             |              |                   | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Ten Daily Mean |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Ten Daily I    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Ten Daily II   | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Ten Daily III  | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Monthly        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |

Total

# Annual Sediment Load for period : 1974-2022

Station Name : Warunji ( AKZ00A7)

Local River : Koyna

Division : Upper Krishna Divn, Pune

Sub-Division : Upper Krishna SD , Miraj

| Year      | Monsoon<br>(M.T.) | Non-Monsoon<br>(M.T.) | Annual Load<br>(M.T.) | Annual Run Off<br>(MCM) |
|-----------|-------------------|-----------------------|-----------------------|-------------------------|
| 1974-1975 | 512670            | 5827                  | 518497                | 1907                    |
| 1975-1976 | 756576            | 8945                  | 765521                | 2872                    |
| 1976-1977 | 1475414           | 20798                 | 1496212               | 4070                    |
| 1977-1978 | 553948            | 9646                  | 563594                | 2583                    |
| 1978-1979 | 388715            | 3371                  | 392086                | 3017                    |
| 1979-1980 | 332510            | 735                   | 333245                | 2239                    |
| 1980-1981 | 595372            | 4004                  | 599375                | 3157                    |
| 1981-1982 | 429479            | 7538                  | 437017                | 2158                    |
| 1982-1983 | 355161            | 5730                  | 360891                | 1752                    |
| 1983-1984 | 326681            | 8504                  | 335185                | 2414                    |
| 1984-1985 | 489782            | 3322                  | 493105                | 2310                    |
| 1985-1986 | 133348            | 5420                  | 138767                | 2086                    |
| 1986-1987 | 335514            | 6799                  | 342314                | 2323                    |
| 1987-1988 | 140545            | 9128                  | 149673                | 1529                    |
| 1988-1989 | 698203            | 3367                  | 701569                | 2994                    |
| 1989-1990 | 212265            | 3294                  | 215559                | 2060                    |
| 1990-1991 | 525172            | 8027                  | 533199                | 4561                    |
| 1991-1992 | 566982            | 6619                  | 573600                | 4558                    |
| 1992-1993 | 362779            | 6697                  | 369476                | 2386                    |
| 1993-1994 | 348217            | 5305                  | 353522                | 3415                    |
| 1994-1995 | 1350608           | 4203                  | 1354812               | 5794                    |
| 1995-1996 | 170934            | 5620                  | 176554                | 1739                    |
| 1996-1997 | 699567            | 4526                  | 704093                | 2299                    |
| 1997-1998 | 843083            | 3862                  | 846946                | 4736                    |
| 1998-1999 | 271388            | 3587                  | 274975                | 2390                    |
| 1999-2000 | 472968            | 2609                  | 475577                | 3500                    |
| 2000-2001 | 117030            | 4176                  | 121207                | 1694                    |
| 2001-2002 | 67661             | 6607                  | 74267                 | 1661                    |
| 2002-2003 | 129799            | 5212                  | 135011                | 2021                    |
| 2003-2004 | 46939             | 6451                  | 53390                 | 1835                    |
| 2004-2005 | 316899            | 5038                  | 321937                | 3278                    |
| 2005-2006 | 1457083           | 2104                  | 1459187               | 6493                    |
| 2006-2007 | 0                 | 0                     | 0                     | 6432                    |
| 2007-2008 | 0                 | 0                     | 0                     | 4279                    |
| 2008-2009 | 0                 | 0                     | 0                     | 2673                    |
| 2009-2010 | 0                 | 0                     | 0                     | 2037                    |
| 2010-2011 | 0                 | 0                     | 0                     | 1995                    |
| 2011-2012 | 0                 | 0                     | 0                     | 3042                    |
| 2012-2013 | 0                 | 0                     | 0                     | 890                     |
| 2013-2014 | 332589            | 0                     | 332589                | 2639                    |
| 2014-2015 | 121972            | 0                     | 121972                | 1651                    |
| 2015-2016 | 25115             | 842                   | 25958                 | 349                     |
| 2016-2017 | 342268            | 0                     | 342268                | 2322                    |
| 2017-2018 | 195243            | 0                     | 195243                | 1697                    |
| 2018-2019 | 322925            | 0                     | 322925                | 3077                    |
| 2019-2020 | 403000            | 0                     | 403000                | 7229                    |
| 2020-2021 | 337848            | 0                     | 337848                | 2258                    |
| 2021-2022 | 628163            | 0                     | 628163                | 2891                    |

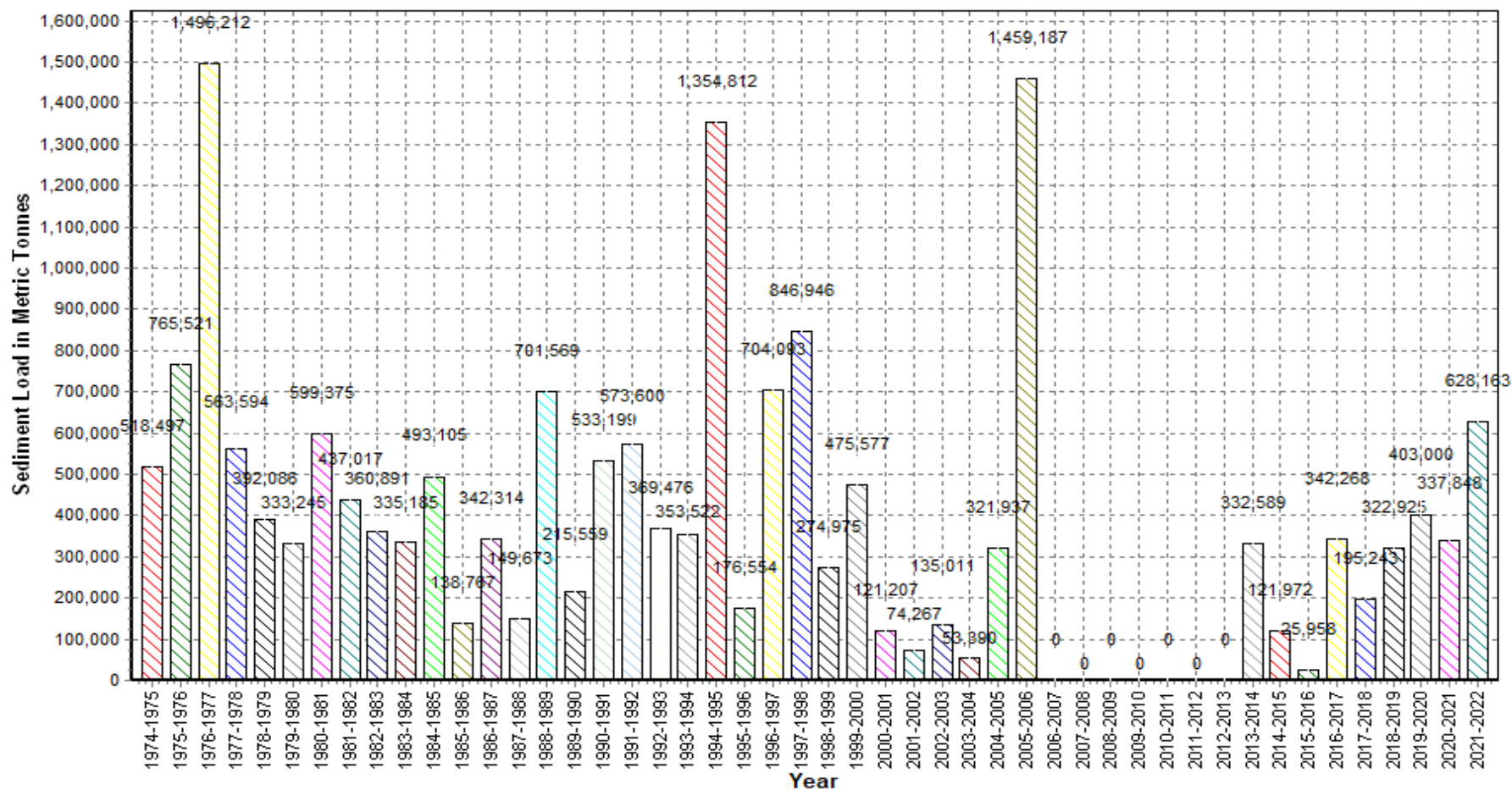
# Annual Sediment Load for the period: 1974-2022

Station Name : Warunji ( AKZ00A7)

Local River : Koyna

Division : Upper Krishna Divn, Pune

Sub-Division : Upper Krishna SD ,Miraj



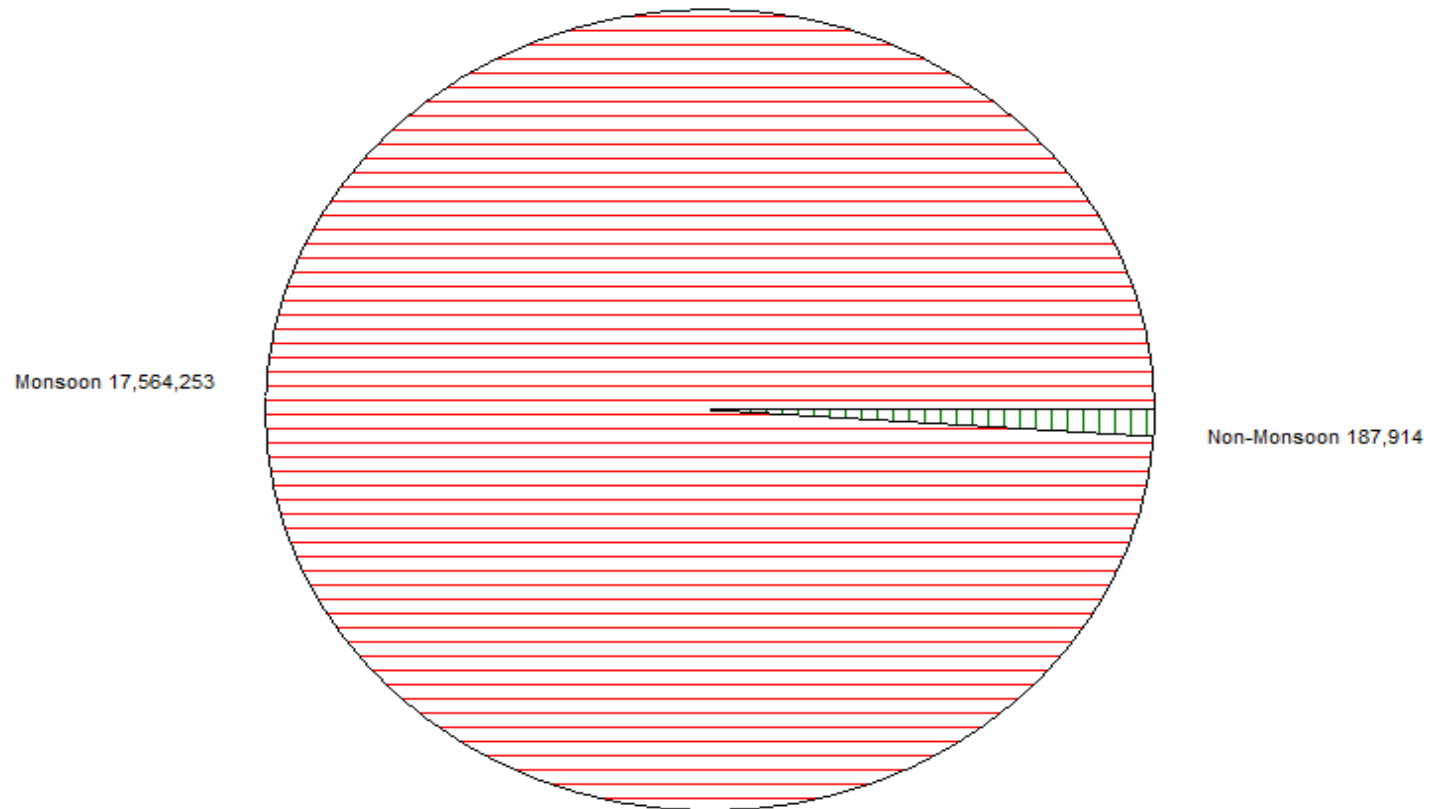
Seasonal Sediment Load for the period : 1974-2021

Station Name : Warunji ( AKZ00A7)

Local River : Koyna

Division : Upper Krishna Divn, Pune

Sub-Division : Upper Krishna SD , Miraj



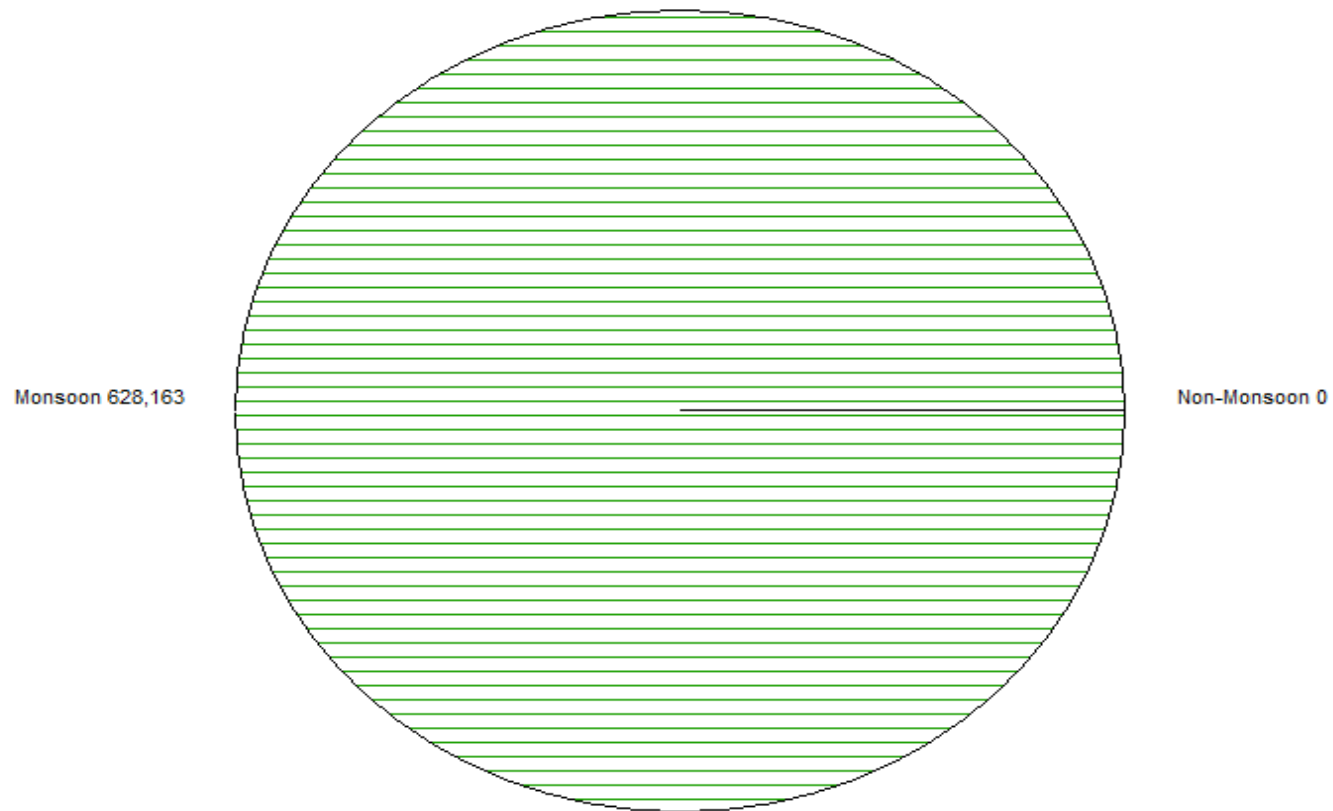
Seasonal Sediment Load for the Year: 2021-2022

Station Name : Warunji ( AKZ00A7)

Local River : Koyna

Division : Upper Krishna Divn, Pune

Sub-Division : Upper Krishna SD , Miraj





**BED MATERIAL ANALYSIS DATA FOR THE YEAR 2021-22**

SITE : KOYNA AT WARUNJI CODE : AKZ00A7  
 MEASURING : UKDn CROSS SECTION : Station gauge line  
 AUTHORITY

**PreMonsoon Survey ( Date 23-03-2021 )**

Discharge Observed : 0 cumec Water edge RB : 266.10 m LB : 30.00 m  
 Area of section : 1030.80 sq.m MeanVelocity : 0.0000 m/sec  
 Wetted perimeter : 237.45 m Hydraulic Mean Depth : 4.3411 m

| Sl. No | R.D. of sampling point in meters | R.L. of bed in meters | Mean diameter in mm | Remarks                                      |
|--------|----------------------------------|-----------------------|---------------------|----------------------------------------------|
| 1      | 60                               | 552.327               | 0.32                |                                              |
| 2      | 100                              | 551.387               | 10.66               | Av.mean dia "m" = <b>5.91</b>                |
| 3      | 130                              | 551.347               | 7.54                |                                              |
| 4      | 160                              | 551.347               | 5.92                | Silt factor                                  |
| 5      | 190                              | 549.887               | 5.13                | "f" = 1.76 $\sqrt{\quad}$ m<br>= <b>4.28</b> |

**Note :** i. Discharge observation was at station gauge line.  
 ii. River bed : Stagnant water.

**Monsoon Survey ( Date 16-08-2021 )**

Discharge Observed : 0 cumec Water edge RB : 229.10 m LB : 45.00 m  
 Area of section : 344.79 sq.m MeanVelocity : 0.0000 m/sec  
 Wetted perimeter : 184.60 m Hydraulic Mean Depth : 1.8678 m

| Sl. No | R.D. of sampling point in meters | R.L. of bed in meters | Mean diameter in mm | Remarks                                      |
|--------|----------------------------------|-----------------------|---------------------|----------------------------------------------|
| 1      | 60                               | 552.387               | 0.34                |                                              |
| 2      | 100                              | 551.417               | 7.34                | Av.mean dia "m" = <b>5.99</b>                |
| 3      | 130                              | 551.357               | 5.53                |                                              |
| 4      | 160                              | 551.337               | 7.03                | Silt factor                                  |
| 5      | 190                              | 549.827               | 9.71                | "f" = 1.76 $\sqrt{\quad}$ m<br>= <b>4.31</b> |

**Note :** i. Discharge observation was at station gauge line.  
 ii. River bed : Stagnant water.

**PostMonsoon Survey ( Date 02-11-2021 )**

Discharge Observed : 0 cumec Water edge RB : 240.70 m LB : 44.20 m  
 Area of section : 428.28 sq.m MeanVelocity : 0.0000 m/sec  
 Wetted perimeter : 197.18 m Hydraulic Mean Depth : 2.1720 m

| Sl. No | R.D. of sampling point in meters | R.L. of bed in meters | Mean diameter in mm | Remarks                                      |
|--------|----------------------------------|-----------------------|---------------------|----------------------------------------------|
| 1      | 60                               | 552.437               | 0.29                |                                              |
| 2      | 100                              | 551.437               | 5.42                | Av.mean dia "m" = <b>5.02</b>                |
| 3      | 130                              | 551.367               | 8.60                |                                              |
| 4      | 160                              | 551.337               | 5.60                | Silt factor                                  |
| 5      | 190                              | 549.797               | 5.18                | "f" = 1.76 $\sqrt{\quad}$ m<br>= <b>3.94</b> |

**Note :** i. Discharge observation was at station gauge line.  
 ii. River bed : Stagnant water.

## HISTORY SHEET

|                          |                                      |                   |                          |
|--------------------------|--------------------------------------|-------------------|--------------------------|
|                          |                                      | <b>Water Year</b> | <b>: 2021-2022</b>       |
| <b>Site</b>              | <b>: Karad</b>                       | <b>Code</b>       | <b>: AK000X6</b>         |
| State                    | : Maharashtra                        | District          | Satara                   |
| Basin                    | : Krishna                            | Independent River | : Krishna                |
| Tributary                | : -                                  | Sub Tributary     | : -                      |
| Sub-Sub Tributary        | : -                                  | Local River       | : Krishna                |
| Division                 | : Upper Krishna Divn, Pune           | Sub-Division      | : Upper Krishna SD Miraj |
| Drainage Area            | : 5462 Sq. Km.                       | Bank              | : Right                  |
| Latitude                 | : 17°17'30"                          | Longitude         | : 74°11'42"              |
| <b>Zero of Gauge (m)</b> | : 549.962 (m.s.l)<br>549.915 (m.s.l) | 01-06-1965        | - 31-05-2004             |
|                          | Opening Date                         | Closing Date      |                          |
| Gauge                    | : 25-12-1964                         |                   |                          |
| Discharge                | : 21-06-1965                         |                   |                          |
| Sediment                 | : 22-06-1965                         |                   |                          |
| Water Quality            | : 01-09-1972                         |                   |                          |

**Daily Observed Sediment Datasheet for period : 2021-2022**

Station Name : Karad ( AK000X6)

Local River : Krishna

Division : Upper Krishna Divn, Pune

Sub-Division : Upper Krishna SD, Miraj

| Day                   | Jun          |               |               |             |              |                   | Jul          |               |               |             |              |                   | Aug          |               |               |             |              |                   |
|-----------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                       | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 126.6        | 0.008         | 0.008         | 0.004       | 0.019        | 211               | 1068         | 0.019         | 0.028         | 0.029       | 0.075        | 6958              |
| 2                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 106.7        | 0.007         | 0.007         | 0.003       | 0.018        | 161               | 960.2        | 0.018         | 0.026         | 0.026       | 0.070        | 5824              |
| 3                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 94.05        | 0.007         | 0.006         | 0.003       | 0.016        | 132               | 431.1        | 0.013         | 0.016         | 0.013       | 0.041        | 1542              |
| 4                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 84.87        | 0.007         | 0.006         | 0.003       | 0.015        | 112               | 434.5        | 0.013         | 0.016         | 0.013       | 0.042        | 1562              |
| 5                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 73.64        | 0.006         | 0.006         | 0.002       | 0.014        | 89                | 445.7        | 0.013         | 0.016         | 0.013       | 0.042        | 1625              |
| 6                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 65.55        | 0.006         | 0.005         | 0.002       | 0.013        | 75                | 349.7        | 0.012         | 0.014         | 0.010       | 0.036        | 1094              |
| 7                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 62.44        | 0.006         | 0.005         | 0.002       | 0.013        | 69                | 223.2        | 0.011         | 0.010         | 0.014       | 0.035        | 677               |
| 8                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 56.45        | 0.006         | 0.005         | 0.002       | 0.012        | 59                | 407.1        | 0.013         | 0.016         | 0.012       | 0.040        | 1407              |
| 9                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 59.41        | 0.006         | 0.005         | 0.002       | 0.012        | 64                | 390.6        | 0.013         | 0.013         | 0.016       | 0.043        | 1438              |
| 10                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 65.40        | 0.005         | 0.004         | 0.015       | 0.024        | 136               | 335.9        | 0.015         | 0.015         | 0.017       | 0.048        | 1381              |
| 11                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 79.59        | 0.006         | 0.006         | 0.003       | 0.015        | 100               | 301.7        | 0.013         | 0.013         | 0.015       | 0.040        | 1050              |
| 12                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 100.2        | 0.007         | 0.007         | 0.004       | 0.018        | 155               | 287.4        | 0.011         | 0.010         | 0.013       | 0.034        | 839               |
| 13                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 135.1        | 0.009         | 0.010         | 0.005       | 0.023        | 273               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 14                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 124.3        | 0.008         | 0.008         | 0.004       | 0.019        | 207               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 15                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 144.3        | 0.010         | 0.010         | 0.005       | 0.025        | 314               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 16                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 132.5        | 0.008         | 0.009         | 0.003       | 0.020        | 232               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 17                    | 2116         | 0.025         | 0.042         | 0.054       | 0.121        | 22177             | 125.6        | 0.006         | 0.006         | 0.003       | 0.015        | 167               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 18                    | 665.6        | 0.015         | 0.021         | 0.019       | 0.055        | 3157              | 144.7        | 0.008         | 0.008         | 0.005       | 0.021        | 262               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 19                    | 688.3        | 0.016         | 0.021         | 0.019       | 0.056        | 3336              | 125.7        | 0.008         | 0.008         | 0.003       | 0.019        | 201               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 20                    | 441.0        | 0.013         | 0.016         | 0.013       | 0.042        | 1600              | 190.5        | 0.009         | 0.010         | 0.003       | 0.023        | 375               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 21                    | 389.7        | 0.012         | 0.015         | 0.011       | 0.039        | 1306              | 242.2        | 0.010         | 0.012         | 0.004       | 0.025        | 527               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 22                    | 352.3        | 0.012         | 0.014         | 0.010       | 0.036        | 1108              | 1275         | 0.022         | 0.020         | 0.094       | 0.136        | 14949             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 23                    | 313.4        | 0.011         | 0.013         | 0.009       | 0.034        | 915               | 3753         | 0.032         | 0.059         | 0.092       | 0.183        | 59475             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 24                    | 280.0        | 0.011         | 0.012         | 0.008       | 0.031        | 760               | 5611         | 0.038         | 0.076         | 0.134       | 0.247        | 119751            | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 25                    | 260.9        | 0.010         | 0.012         | 0.008       | 0.030        | 678               | 1972         | 0.024         | 0.040         | 0.051       | 0.115        | 19658             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 26                    | 250.0        | 0.010         | 0.012         | 0.008       | 0.029        | 633               | 1620         | 0.022         | 0.036         | 0.043       | 0.101        | 14079             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 27                    | 237.9        | 0.010         | 0.011         | 0.007       | 0.028        | 584               | 1165         | 0.020         | 0.029         | 0.031       | 0.080        | 8049              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 28                    | 226.1        | 0.010         | 0.011         | 0.007       | 0.028        | 537               | 970.8        | 0.018         | 0.026         | 0.027       | 0.071        | 5938              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 29                    | 165.2        | 0.009         | 0.009         | 0.005       | 0.023        | 324               | 870.6        | 0.017         | 0.025         | 0.024       | 0.066        | 4942              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 30                    | 143.5        | 0.008         | 0.008         | 0.005       | 0.021        | 258               | 1195         | 0.020         | 0.030         | 0.032       | 0.082        | 8412              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 31                    |              |               |               |             |              |                   | 1430         | 0.021         | 0.033         | 0.038       | 0.092        | 11377             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| <b>Ten Daily Mean</b> |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Ten Daily I           | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 79.51        | 0.006         | 0.006         | 0.004       | 0.016        | 111               | 504.6        | 0.014         | 0.017         | 0.016       | 0.047        | 2351              |
| Ten Daily II          | 391.1        | 0.017         | 0.025         | 0.026       | 0.069        | 7568              | 130.3        | 0.008         | 0.008         | 0.004       | 0.020        | 229               | 58.91        | 0.012         | 0.012         | 0.014       | 0.037        | 945               |
| Ten Daily III         | 261.9        | 0.010         | 0.012         | 0.008       | 0.030        | 710               | 1828         | 0.022         | 0.035         | 0.052       | 0.109        | 24287             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| <b>Monthly</b>        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| <b>Total</b>          |              |               |               |             |              |                   | 37374        |               |               |             |              | 270554            |              |               |               |             |              | 25397             |

Annual Sediment Load (Metric Tonnes) : 347519

**Daily Observed Sediment Datasheet for period : 2021-2022**

Station Name : Karad ( AK000X6)

Local River : Krishna

Division : Upper Krishna Divn, Pune

Sub-Division : Upper Krishna SD, Miraj

| Day            | Sep          |               |               |             |              |                   | Oct          |               |               |             |              |                   | Nov          |               |               |             |              |                   |
|----------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 2              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 3              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 4              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 5              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 6              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 7              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 8              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 9              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 10             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 11             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 12             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 13             | 408.6        | 0.012         | 0.012         | 0.015       | 0.039        | 1380              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 14             | 695.7        | 0.013         | 0.012         | 0.014       | 0.039        | 2356              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 15             | 710.6        | 0.014         | 0.108         | 0.015       | 0.138        | 8460              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 16             | 339.6        | 0.013         | 0.013         | 0.014       | 0.040        | 1159              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 17             | 294.2        | 0.011         | 0.010         | 0.012       | 0.033        | 839               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 18             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 19             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 20             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 21             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 22             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 23             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 24             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 25             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 26             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 27             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 28             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 29             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 30             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 31             |              |               |               |             |              |                   | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |              |               |               |             |              |                   |
| Ten Daily Mean |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Ten Daily I    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Ten Daily II   | 244.9        | 0.012         | 0.031         | 0.014       | 0.058        | 2839              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Ten Daily III  | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Monthly        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Total          |              |               |               |             |              | 14195             |              |               |               |             |              | 0                 |              |               |               |             |              | 0                 |

Annual Sediment Load (Metric Tonnes) : 347519

**Daily Observed Sediment Datasheet for period : 2021-2022**

Station Name : Karad ( AK000X6)

Local River : Krishna

Division : Upper Krishna Divn, Pune

Sub-Division : Upper Krishna SD, Miraj

| Day            | Dec          |               |               |             |              |                   | Jan          |               |               |             |              |                   | Feb          |               |               |             |              |                   |
|----------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 2              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 3              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 4              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 5              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 6              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 7              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 8              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 9              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 10             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 11             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 12             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 13             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 14             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 15             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 16             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 17             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 18             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 19             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 20             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 21             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 22             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 23             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 24             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 25             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 26             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 27             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 28             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 29             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |              |               |               |             |              |                   |
| 30             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |              |               |               |             |              |                   |
| 31             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |              |               |               |             |              |                   |
| Ten Daily Mean |              |               |               |             |              |                   | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        |                   |              |               |               |             |              |                   |
| Ten Daily I    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Ten Daily II   | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Ten Daily III  | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Monthly        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Total          |              |               |               |             |              | 0                 |              |               |               |             |              | 0                 |              |               |               |             |              | 0                 |

**Daily Observed Sediment Datasheet for period : 2021-2022**

Station Name : Karad ( AK000X6)

Local River : Krishna

Division : Upper Krishna Divn, Pune

Sub-Division : Upper Krishna SD, Miraj

| Day            | Mar          |               |               |             |              |                   | Apr          |               |               |             |              |                   | May          |               |               |             |              |                   |
|----------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 2              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 3              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 4              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 5              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 6              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 7              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 8              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 9              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 10             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 11             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 12             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 13             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 14             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 15             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 16             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 17             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 18             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 19             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 20             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 21             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 22             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 23             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 24             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 25             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 26             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 27             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 28             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 29             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 30             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 31             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |              |               |               |             |              |                   | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Ten Daily Mean |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Ten Daily I    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Ten Daily II   | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Ten Daily III  | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Monthly        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Total          |              |               |               |             |              | 0                 |              |               |               |             |              | 0                 |              |               |               |             |              | 0                 |

Annual Sediment Load (Metric Tonnes) : 347519

# Annual Sediment Load for period : 1966-2022

Station Name : Karad ( AK000X6)

Local River : Krishna

Division : Upper Krishna Divn, Pune

Sub-Division : Upper Krishna SD , Miraj

| Year      | Monsoon<br>(M.T.) | Non-Monsoon<br>(M.T.) | Annual Load<br>(M.T.) | Annual Run Off<br>(MCM) |
|-----------|-------------------|-----------------------|-----------------------|-------------------------|
| 1966-1967 | 1090375           | 8045                  | 1098420               | 4037                    |
| 1967-1968 | 3806316           | 103235                | 3909551               | 6840                    |
| 1968-1969 | 1955266           | 2577                  | 1957843               | 2999                    |
| 1969-1970 | 4048925           | 8288                  | 4057213               | 7009                    |
| 1970-1971 | 1256427           | 3279                  | 1259706               | 5326                    |
| 1971-1972 | 1860398           | 6020                  | 1866419               | 4356                    |
| 1972-1973 | 598756            | 3008                  | 601764                | 2479                    |
| 1973-1974 | 2288884           | 38322                 | 2327206               | 5064                    |
| 1974-1975 | 1225397           | 3923                  | 1229320               | 3337                    |
| 1975-1976 | 1575439           | 6657                  | 1582096               | 5313                    |
| 1976-1977 | 4857642           | 11153                 | 4868795               | 7021                    |
| 1977-1978 | 2960864           | 13139                 | 2974003               | 4678                    |
| 1978-1979 | 1101515           | 8069                  | 1109584               | 5199                    |
| 1979-1980 | 1888124           | 9485                  | 1897610               | 4800                    |
| 1980-1981 | 1610216           | 6223                  | 1616439               | 5492                    |
| 1981-1982 | 2066070           | 7925                  | 2073995               | 3875                    |
| 1982-1983 | 459715            | 4814                  | 464529                | 2796                    |
| 1983-1984 | 528785            | 8553                  | 537338                | 3603                    |
| 1984-1985 | 728043            | 6539                  | 734582                | 3616                    |
| 1985-1986 | 388138            | 6010                  | 394147                | 2878                    |
| 1986-1987 | 1053712           | 7346                  | 1061058               | 3468                    |
| 1987-1988 | 323382            | 14948                 | 338331                | 2194                    |
| 1988-1989 | 1080660           | 10382                 | 1091042               | 4132                    |
| 1989-1990 | 461034            | 12633                 | 473667                | 2925                    |
| 1990-1991 | 771505            | 13340                 | 784845                | 6580                    |
| 1991-1992 | 1853481           | 20226                 | 1873707               | 6952                    |
| 1992-1993 | 446120            | 9094                  | 455215                | 3238                    |
| 1993-1994 | 1082644           | 5787                  | 1088430               | 4962                    |
| 1994-1995 | 2290645           | 6845                  | 2297490               | 9986                    |
| 1995-1996 | 269544            | 5373                  | 274917                | 2544                    |
| 1996-1997 | 732079            | 4956                  | 737036                | 3790                    |
| 1997-1998 | 1605157           | 4886                  | 1610042               | 7178                    |
| 1998-1999 | 175165            | 2773                  | 177938                | 3622                    |
| 1999-2000 | 784489            | 4373                  | 788861                | 5291                    |
| 2000-2001 | 146394            | 2790                  | 149184                | 2386                    |
| 2001-2002 | 33125             | 1901                  | 35026                 | 2243                    |
| 2002-2003 | 26971             | 2580                  | 29551                 | 2590                    |
| 2003-2004 | 64620             | 3364                  | 67984                 | 2323                    |
| 2004-2005 | 1254348           | 5072                  | 1259419               | 5080                    |
| 2005-2006 | 2239835           | 9879                  | 2249715               | 10481                   |
| 2006-2007 | 3357549           | 12149                 | 3369698               | 10824                   |
| 2007-2008 | 744906            | 9932                  | 754838                | 6723                    |
| 2008-2009 | 262998            | 9854                  | 272852                | 3887                    |
| 2009-2010 | 105170            | 3526                  | 108696                | 3389                    |
| 2010-2011 | 357754            | 72                    | 357826                | 2757                    |
| 2011-2012 | 731242            | 0                     | 731242                | 3742                    |
| 2012-2013 | 209830            | 0                     | 209830                | 1501                    |
| 2013-2014 | 556176            | 0                     | 556176                | 3716                    |
| 2014-2015 | 259165            | 0                     | 259165                | 2309                    |
| 2015-2016 | 51176             | 754                   | 51930                 | 1006                    |
| 2016-2017 | 216026            | 0                     | 216026                | 2305                    |
| 2017-2018 | 106874            | 0                     | 106874                | 1358                    |
| 2018-2019 | 175990            | 0                     | 175990                | 2449                    |
| 2019-2020 | 1117820           | 0                     | 1117820               | 8458                    |
| 2020-2021 | 165485            | 0                     | 165485                | 3121                    |
| 2021-2022 | 347519            | 0                     | 347519                | 3181                    |

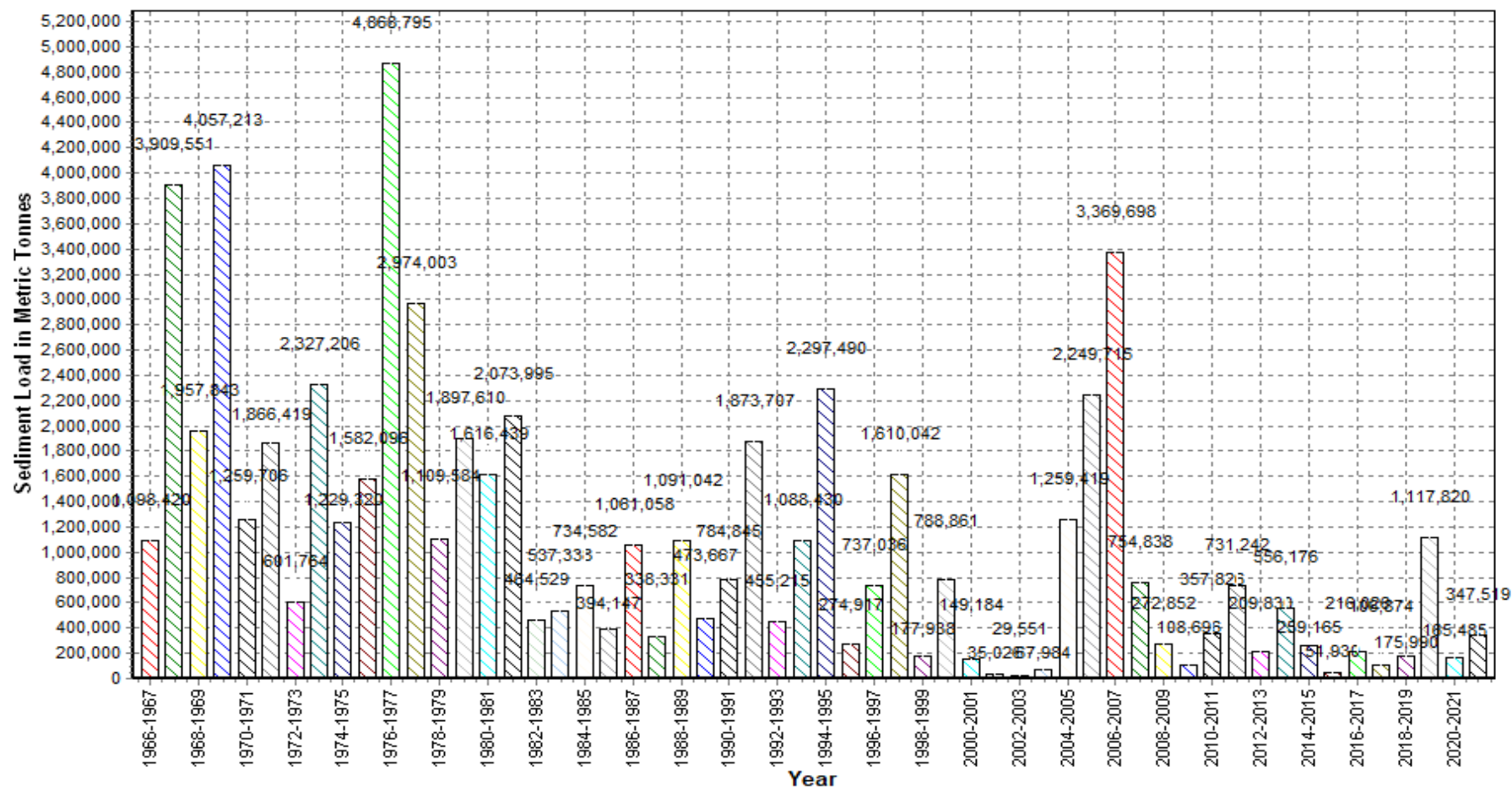
# Annual Sediment Load for the period: 1966-2022

Station Name : Karad ( AK000X6)

Local River : Krishna

Division : Upper Krishna Divn, Pune

Sub-Division : Upper Krishna SD , Miraj





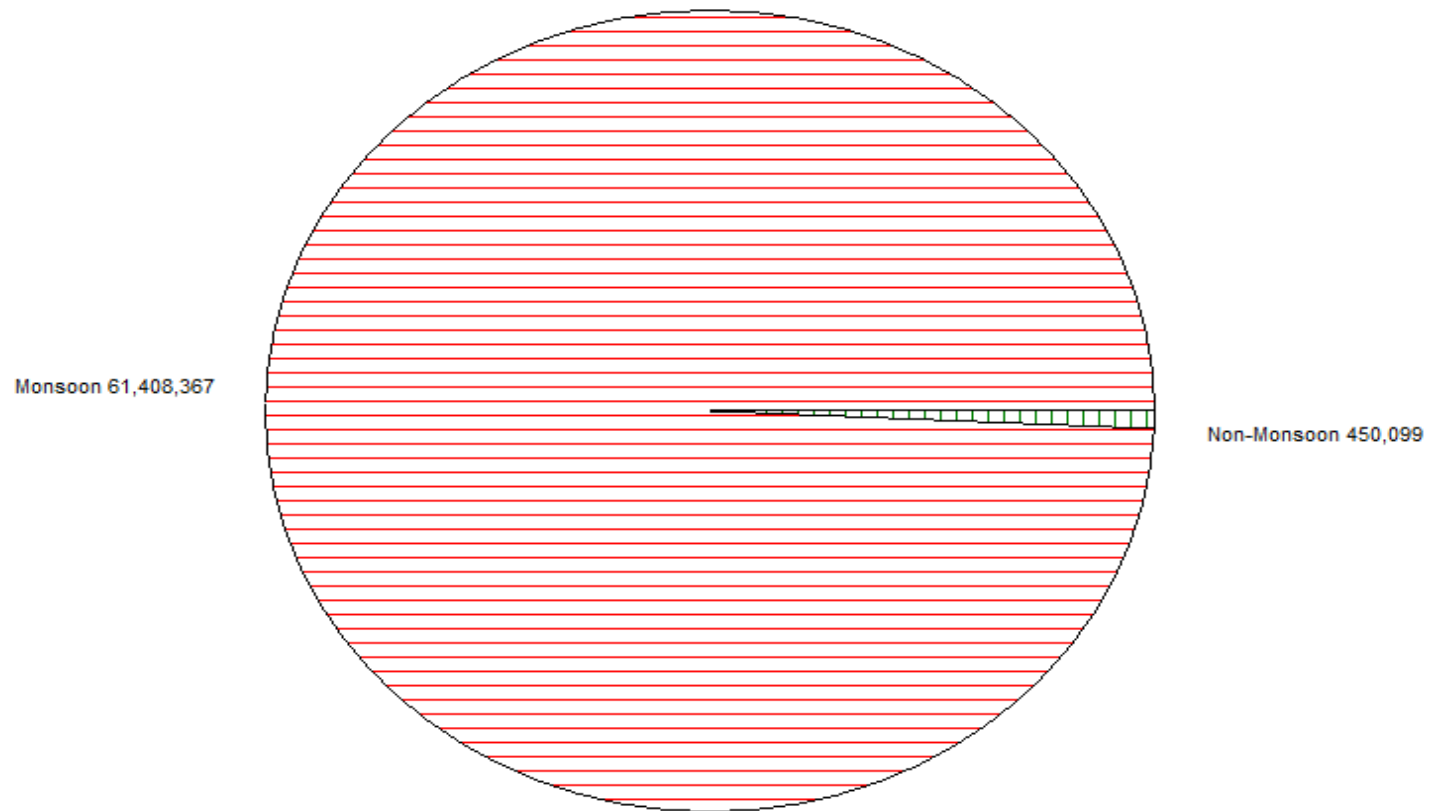
Seasonal Sediment Load for the period : 1966-2021

Station Name : Karad ( AK000X6)

Local River : Krishna

Division : Upper Krishna Divn, Pune

Sub-Division : Upper Krishna SD , Miraj



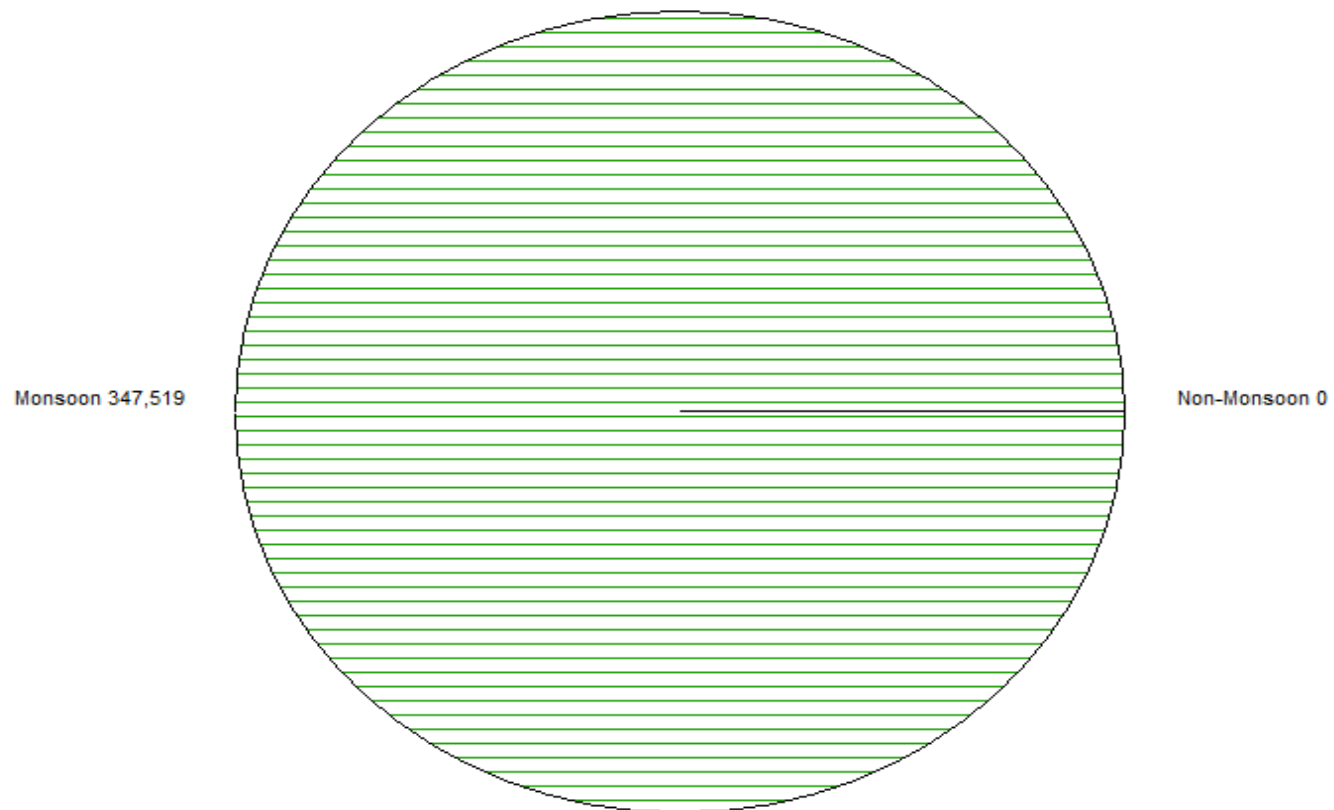
Seasonal Sediment Load for the Year: 2021-2022

Station Name : Karad ( AK000X6)

Local River : Krishna

Division : Upper Krishna Divn, Pune

Sub-Division : Upper Krishna SD , Miraj



**BED MATERIAL ANALYSIS DATA FOR THE YEAR 2021-22**

SITE : KRISHNA AT KARAD CODE : AKO00X6  
 MEASURING : UKDn CROSS SECTION : Station gauge line  
 AUTHORITY

**PreMonsoon Survey ( Date 22-04-2021 )**

Discharge Observed : 0 cumec Water edge RB : 67.75 m LB : 295.00 m  
 Area of section : 1244.41 sq.m MeanVelocity : 0.0000 m/sec  
 Wetted perimeter : 230.28 m Hydraulic Mean Depth : 5.4039 m

| Sl. No | R.D. of sampling point in meters | R.L. of bed in meters | Mean diameter in mm | Remarks                                                     |
|--------|----------------------------------|-----------------------|---------------------|-------------------------------------------------------------|
| 1      | 155                              | 547.225               | 3.02                |                                                             |
| 2      | 185                              | 549.025               | 7.69                | Av.mean dia "m" = <b>12.57</b>                              |
| 3      | 220                              | 549.265               | 26.99               | Silt factor<br>"f" = 1.76 $\sqrt{\quad}$ m<br>= <b>6.24</b> |

**Note :** i. Discharge observation was at station gauge line.  
 ii. River bed : Stagnant water.

**Monsoon Survey ( Date 23-08-2021 )**

Discharge Observed : 0 cumec Water edge RB : 111.10 m LB : 280.80 m  
 Area of section : 883.33 sq.m MeanVelocity : 0.0000 m/sec  
 Wetted perimeter : 172.65 m Hydraulic Mean Depth : 5.1163 m

| Sl. No | R.D. of sampling point in meters | R.L. of bed in meters | Mean diameter in mm | Remarks                                                     |
|--------|----------------------------------|-----------------------|---------------------|-------------------------------------------------------------|
| 1      | 155                              | 547.585               | 2.26                |                                                             |
| 2      | 185                              | 549.035               | 10.83               | Av.mean dia "m" = <b>11.39</b>                              |
| 3      | 220                              | 549.175               | 21.07               | Silt factor<br>"f" = 1.76 $\sqrt{\quad}$ m<br>= <b>5.94</b> |

**Note :** i. Discharge observation was at station gauge line.  
 ii. River bed : Stagnant water.

**PostMonsoon Survey ( Date 12-11-2021 )**

Discharge Observed : 0 cumec Water edge RB : 111.65 m LB : 278.80 m  
 Area of section : 628.15 sq.m MeanVelocity : 0.0000 m/sec  
 Wetted perimeter : 168.96 m Hydraulic Mean Depth : 3.7177 m

| Sl. No | R.D. of sampling point in meters | R.L. of bed in meters | Mean diameter in mm | Remarks                                                     |
|--------|----------------------------------|-----------------------|---------------------|-------------------------------------------------------------|
| 1      | 155                              | 549.925               | 2.74                |                                                             |
| 2      | 185                              | 549.085               | 8.80                | Av.mean dia "m" = <b>12.88</b>                              |
| 3      | 220                              | 549.185               | 27.10               | Silt factor<br>"f" = 1.76 $\sqrt{\quad}$ m<br>= <b>6.32</b> |

**Note :** i. Discharge observation was at station gauge line.  
 ii. River bed : Stagnant water.

## HISTORY SHEET

|                          |                                      |                          |                            |
|--------------------------|--------------------------------------|--------------------------|----------------------------|
|                          |                                      | <b>Water Year</b>        | <b>: 2021-2022</b>         |
| <b>Site</b>              | <b>: Samdoli (Seasonal)</b>          | <b>Code</b>              | <b>: AKX00A7</b>           |
| State                    | : Maharashtra                        | District                 | Sangli                     |
| Basin                    | : Krishna                            | Independent River        | : Krishna                  |
| Tributary                | : Varna                              | Sub Tributary            | : -                        |
| Sub-Sub Tributary        | : -                                  | Local River              | : Varna                    |
| Division                 | : Upper Krishna Divn, Pune           | Sub-Division             | : Upper Krishna SD , Miraj |
| Drainage Area            | : 1948 Sq. Km.                       | Bank                     | : Left                     |
| Latitude                 | : 16°51'00"                          | Longitude                | : 74°30'00"                |
| <b>Zero of Gauge (m)</b> | : 529.594 (m.s.l)<br>528.594 (m.s.l) | 01-09-1963<br>21-04-1966 | - 20-04-1966               |
|                          | Opening Date                         | Closing Date             |                            |
| Gauge                    | : 23-08-1963                         |                          |                            |
| Discharge                | : 01-12-1964                         |                          |                            |
| Sediment                 | : 26-12-2014                         |                          |                            |
| Water Quality            | : 01-09-2014                         |                          |                            |

**Daily Observed Sediment Datasheet for period : 2021-2022**

Station Name : Samdoli (Seasonal) ( AKX00A7)

Local River : Varna

Division : Upper Krishna Divn, Pune

Sub-Division : Upper Krishna SD , Miraj

| Day            | Jun          |               |               |             |              |                   | Jul          |               |               |             |              |                   | Aug          |               |               |             |              |                   |
|----------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 68.26        | 0.003         | 0.004         | 0.006       | 0.013        | 77                | 1251         | 0.003         | 0.005         | 0.007       | 0.016        | 1686              |
| 2              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 63.21        | 0.003         | 0.004         | 0.006       | 0.013        | 71                | 1181         | 0.003         | 0.005         | 0.007       | 0.016        | 1592              |
| 3              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 61.21        | 0.003         | 0.004         | 0.006       | 0.013        | 69                | 1043         | 0.003         | 0.005         | 0.007       | 0.015        | 1388              |
| 4              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 55.27        | 0.003         | 0.004         | 0.006       | 0.013        | 62                | 706.0        | 0.003         | 0.005         | 0.007       | 0.015        | 921               |
| 5              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 51.36        | 0.003         | 0.004         | 0.006       | 0.013        | 57                | 510.1        | 0.003         | 0.005         | 0.007       | 0.015        | 648               |
| 6              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 41.39        | 0.002         | 0.003         | 0.007       | 0.012        | 43                | 556.1        | 0.003         | 0.005         | 0.007       | 0.015        | 716               |
| 7              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 27.13        | 0.002         | 0.003         | 0.006       | 0.010        | 24                | 530.1        | 0.003         | 0.005         | 0.007       | 0.015        | 682               |
| 8              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 22.76        | 0.002         | 0.003         | 0.005       | 0.010        | 19                | 434.2        | 0.003         | 0.005         | 0.007       | 0.015        | 548               |
| 9              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 8.951        | 0.002         | 0.004         | 0.007       | 0.012        | 10                | 460.1        | 0.003         | 0.005         | 0.007       | 0.015        | 580               |
| 10             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 30.68        | 0.003         | 0.004         | 0.007       | 0.013        | 36                | 275.1        | 0.003         | 0.005         | 0.007       | 0.014        | 337               |
| 11             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 17.68        | 0.002         | 0.004         | 0.006       | 0.012        | 18                | 195.1        | 0.003         | 0.005         | 0.007       | 0.014        | 234               |
| 12             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 12.81        | 0.003         | 0.005         | 0.008       | 0.016        | 18                | 185.0        | 0.003         | 0.005         | 0.007       | 0.014        | 222               |
| 13             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 47.82        | 0.003         | 0.006         | 0.008       | 0.017        | 71                | 170.1        | 0.003         | 0.004         | 0.007       | 0.014        | 203               |
| 14             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 133.2        | 0.002         | 0.004         | 0.007       | 0.013        | 150               | 160.0        | 0.003         | 0.004         | 0.007       | 0.014        | 191               |
| 15             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 168.6        | 0.002         | 0.003         | 0.005       | 0.010        | 141               | 169.0        | 0.003         | 0.004         | 0.007       | 0.014        | 201               |
| 16             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 175.1        | 0.002         | 0.004         | 0.006       | 0.012        | 182               | 229.6        | 0.003         | 0.005         | 0.007       | 0.014        | 280               |
| 17             | 126.9        | 0.003         | 0.004         | 0.006       | 0.014        | 148               | 220.2        | 0.004         | 0.009         | 0.012       | 0.025        | 474               | 194.9        | 0.003         | 0.005         | 0.007       | 0.014        | 234               |
| 18             | 875.2        | 0.003         | 0.005         | 0.007       | 0.015        | 1149              | 218.7        | 0.003         | 0.005         | 0.007       | 0.014        | 263               | 164.3        | 0.003         | 0.004         | 0.007       | 0.014        | 196               |
| 19             | 842.7        | 0.003         | 0.005         | 0.007       | 0.015        | 1107              | 218.1        | 0.002         | 0.005         | 0.008       | 0.015        | 286               | 150.0        | 0.003         | 0.004         | 0.006       | 0.014        | 178               |
| 20             | 804.5        | 0.003         | 0.005         | 0.007       | 0.015        | 1057              | 217.9        | 0.003         | 0.006         | 0.009       | 0.018        | 343               | 135.0        | 0.003         | 0.004         | 0.006       | 0.014        | 159               |
| 21             | 518.0        | 0.003         | 0.005         | 0.007       | 0.015        | 658               | 254.2        | 0.004         | 0.007         | 0.012       | 0.023        | 496               | 130.1        | 0.003         | 0.004         | 0.006       | 0.014        | 152               |
| 22             | 306.6        | 0.003         | 0.005         | 0.007       | 0.014        | 376               | 647.7        | 0.004         | 0.006         | 0.008       | 0.018        | 1002              | 117.0        | 0.003         | 0.004         | 0.006       | 0.014        | 136               |
| 23             | 268.9        | 0.003         | 0.005         | 0.007       | 0.014        | 330               | 1330         | 0.003         | 0.005         | 0.007       | 0.016        | 1792              | 109.1        | 0.003         | 0.006         | 0.014       | 0.023        | 219               |
| 24             | 186.5        | 0.003         | 0.005         | 0.007       | 0.014        | 224               | 1863         | 0.004         | 0.005         | 0.007       | 0.016        | 2576              | 105.6        | 0.002         | 0.003         | 0.007       | 0.012        | 113               |
| 25             | 156.3        | 0.003         | 0.004         | 0.006       | 0.014        | 185               | 2138         | 0.004         | 0.005         | 0.007       | 0.016        | 2974              | 92.66        | 0.002         | 0.005         | 0.007       | 0.014        | 115               |
| 26             | 149.4        | 0.003         | 0.004         | 0.006       | 0.014        | 177               | 2116         | 0.004         | 0.005         | 0.007       | 0.016        | 2943              | 49.35        | 0.003         | 0.003         | 0.009       | 0.015        | 66                |
| 27             | 124.7        | 0.003         | 0.004         | 0.006       | 0.014        | 145               | 1940         | 0.004         | 0.005         | 0.007       | 0.016        | 2698              | 46.90        | 0.004         | 0.006         | 0.010       | 0.020        | 80                |
| 28             | 99.60        | 0.003         | 0.004         | 0.006       | 0.013        | 115               | 1782         | 0.004         | 0.005         | 0.007       | 0.016        | 2449              | 44.29        | 0.004         | 0.005         | 0.007       | 0.016        | 63                |
| 29             | 96.39        | 0.003         | 0.004         | 0.006       | 0.013        | 111               | 1624         | 0.003         | 0.005         | 0.007       | 0.016        | 2217              | 46.53        | 0.003         | 0.004         | 0.006       | 0.013        | 51                |
| 30             | 71.31        | 0.003         | 0.004         | 0.006       | 0.013        | 80                | 1425         | 0.003         | 0.005         | 0.007       | 0.016        | 1932              | 43.04        | 0.005         | 0.007         | 0.009       | 0.020        | 76                |
| 31             |              |               |               |             |              |                   | 1248         | 0.003         | 0.005         | 0.007       | 0.016        | 1682              | 41.37        | 0.004         | 0.006         | 0.009       | 0.018        | 65                |
| Ten Daily Mean |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Ten Daily I    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 43.02        | 0.002         | 0.004         | 0.006       | 0.012        | 47                | 694.7        | 0.003         | 0.005         | 0.007       | 0.015        | 910               |
| Ten Daily II   | 264.9        | 0.003         | 0.005         | 0.007       | 0.015        | 865               | 143.0        | 0.003         | 0.005         | 0.007       | 0.015        | 194               | 175.3        | 0.003         | 0.004         | 0.006       | 0.014        | 210               |
| Ten Daily III  | 197.8        | 0.003         | 0.004         | 0.006       | 0.014        | 240               | 1488         | 0.004         | 0.005         | 0.008       | 0.017        | 2069              | 75.08        | 0.003         | 0.005         | 0.008       | 0.016        | 103               |
| Monthly        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Total          |              |               |               |             |              | 5862              |              |               |               |             |              | 25171             |              |               |               |             |              | 12333             |

Annual Sediment Load (Metric Tonnes) : 52733

**Daily Observed Sediment Datasheet for period : 2021-2022**

Station Name : Samdoli (Seasonal) ( AKX00A7)

Local River : Varna

Division : Upper Krishna Divn, Pune

Sub-Division : Upper Krishna SD , Miraj

| Day            | Sep          |               |               |             |              |                   | Oct          |               |               |             |              |                   | Nov          |               |               |             |              |                   |
|----------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1              | 40.87        | 0.004         | 0.005         | 0.007       | 0.016        | 55                | 92.66        | 0.003         | 0.004         | 0.007       | 0.014        | 115               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 2              | 29.80        | 0.003         | 0.004         | 0.006       | 0.013        | 32                | 99.11        | 0.003         | 0.005         | 0.006       | 0.014        | 121               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 3              | 25.37        | 0.004         | 0.006         | 0.009       | 0.019        | 41                | 107.2        | 0.003         | 0.004         | 0.006       | 0.014        | 125               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 4              | 21.90        | 0.003         | 0.006         | 0.008       | 0.017        | 32                | 99.11        | 0.003         | 0.004         | 0.006       | 0.012        | 106               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 5              | 18.51        | 0.002         | 0.004         | 0.006       | 0.012        | 19                | 105.6        | 0.004         | 0.005         | 0.006       | 0.014        | 129               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 6              | 19.35        | 0.002         | 0.003         | 0.005       | 0.010        | 17                | 99.11        | 0.003         | 0.004         | 0.005       | 0.012        | 104               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 7              | 36.18        | 0.003         | 0.004         | 0.006       | 0.013        | 40                | 98.45        | 0.004         | 0.005         | 0.006       | 0.015        | 126               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 8              | 49.18        | 0.003         | 0.005         | 0.007       | 0.016        | 66                | 90.33        | 0.002         | 0.004         | 0.006       | 0.012        | 94                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 9              | 169.8        | 0.004         | 0.005         | 0.007       | 0.016        | 229               | 90.82        | 0.004         | 0.005         | 0.006       | 0.014        | 111               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 10             | 345.2        | 0.005         | 0.007         | 0.009       | 0.020        | 608               | 68.26        | 0.003         | 0.004         | 0.006       | 0.013        | 77                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 11             | 370.9        | 0.003         | 0.005         | 0.007       | 0.016        | 497               | 49.35        | 0.003         | 0.003         | 0.005       | 0.011        | 47                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 12             | 415.6        | 0.003         | 0.005         | 0.007       | 0.015        | 524               | 92.66        | 0.002         | 0.003         | 0.004       | 0.008        | 67                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 13             | 361.8        | 0.005         | 0.006         | 0.008       | 0.019        | 597               | 109.1        | 0.002         | 0.003         | 0.006       | 0.011        | 99                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 14             | 549.7        | 0.003         | 0.004         | 0.006       | 0.013        | 598               | 99.11        | 0.003         | 0.004         | 0.005       | 0.012        | 99                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 15             | 672.8        | 0.002         | 0.004         | 0.005       | 0.011        | 628               | 92.66        | 0.002         | 0.003         | 0.005       | 0.011        | 86                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 16             | 780.8        | 0.003         | 0.004         | 0.005       | 0.012        | 836               | 63.34        | 0.002         | 0.003         | 0.005       | 0.010        | 53                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 17             | 637.6        | 0.003         | 0.004         | 0.005       | 0.012        | 672               | 55.27        | 0.003         | 0.004         | 0.006       | 0.013        | 62                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 18             | 348.4        | 0.003         | 0.005         | 0.008       | 0.016        | 482               | 43.01        | 0.003         | 0.005         | 0.006       | 0.015        | 54                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 19             | 240.6        | 0.003         | 0.005         | 0.007       | 0.014        | 295               | 41.37        | 0.003         | 0.004         | 0.005       | 0.011        | 39                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 20             | 168.6        | 0.003         | 0.005         | 0.006       | 0.014        | 204               | 27.13        | 0.002         | 0.003         | 0.005       | 0.010        | 23                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 21             | 133.0        | 0.002         | 0.003         | 0.004       | 0.010        | 109               | 19.35        | 0.002         | 0.003         | 0.005       | 0.009        | 16                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 22             | 121.6        | 0.003         | 0.004         | 0.005       | 0.012        | 127               | 3.967        | 0.003         | 0.004         | 0.005       | 0.011        | 4                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 23             | 98.45        | 0.002         | 0.003         | 0.004       | 0.008        | 70                | 22.38        | 0.002         | 0.003         | 0.004       | 0.008        | 15                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 24             | 92.57        | 0.002         | 0.004         | 0.006       | 0.012        | 94                | 15.53        | 0.002         | 0.004         | 0.006       | 0.012        | 16                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 25             | 105.6        | 0.003         | 0.005         | 0.008       | 0.016        | 149               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 26             | 97.46        | 0.003         | 0.004         | 0.006       | 0.013        | 113               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 27             | 98.45        | 0.003         | 0.006         | 0.007       | 0.015        | 131               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 28             | 105.6        | 0.002         | 0.005         | 0.006       | 0.013        | 117               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 29             | 99.12        | 0.002         | 0.003         | 0.005       | 0.010        | 89                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 30             | 98.45        | 0.003         | 0.004         | 0.006       | 0.013        | 109               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 31             |              |               |               |             |              |                   | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |              |               |               |             |              |                   |
| Ten Daily Mean |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Ten Daily I    | 75.62        | 0.003         | 0.005         | 0.007       | 0.015        | 114               | 95.06        | 0.003         | 0.004         | 0.006       | 0.013        | 111               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Ten Daily II   | 454.7        | 0.003         | 0.005         | 0.006       | 0.014        | 533               | 67.29        | 0.002         | 0.003         | 0.005       | 0.011        | 63                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Ten Daily III  | 105.0        | 0.003         | 0.004         | 0.006       | 0.012        | 111               | 5.566        | 0.002         | 0.003         | 0.005       | 0.010        | 13                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Monthly        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Total          |              |               |               |             |              | 7582              |              |               |               |             |              | 1785              |              |               |               |             |              | 0                 |

Annual Sediment Load (Metric Tonnes) : 52733

**Annual Sediment Load for period : 2015-2022****Station Name : Samdoli (Seasonal) ( AKX00A7)****Division : Upper Krishna Divn, Pune****Local River : Varna****Sub-Division : Upper Krishna SD , Miraj**

| Year      | Monsoon<br>(M.T.) | Non-Monsoon<br>(M.T.) | Annual Load<br>(M.T.) | Annual Run Off<br>(MCM) |
|-----------|-------------------|-----------------------|-----------------------|-------------------------|
| 2015-2016 | 63468             | 0                     | 63468                 | 948                     |
| 2016-2017 | 377609            | 0                     | 377609                | 2744                    |
| 2017-2018 | 272262            | 0                     | 272262                | 1975                    |
| 2018-2019 | 19140             | 0                     | 19140                 | 3277                    |
| 2019-2020 | 116194            | 0                     | 116194                | 5728                    |
| 2020-2021 | 65733             | 0                     | 65733                 | 3359                    |
| 2021-2022 | 52733             | 0                     | 52733                 | 3492                    |

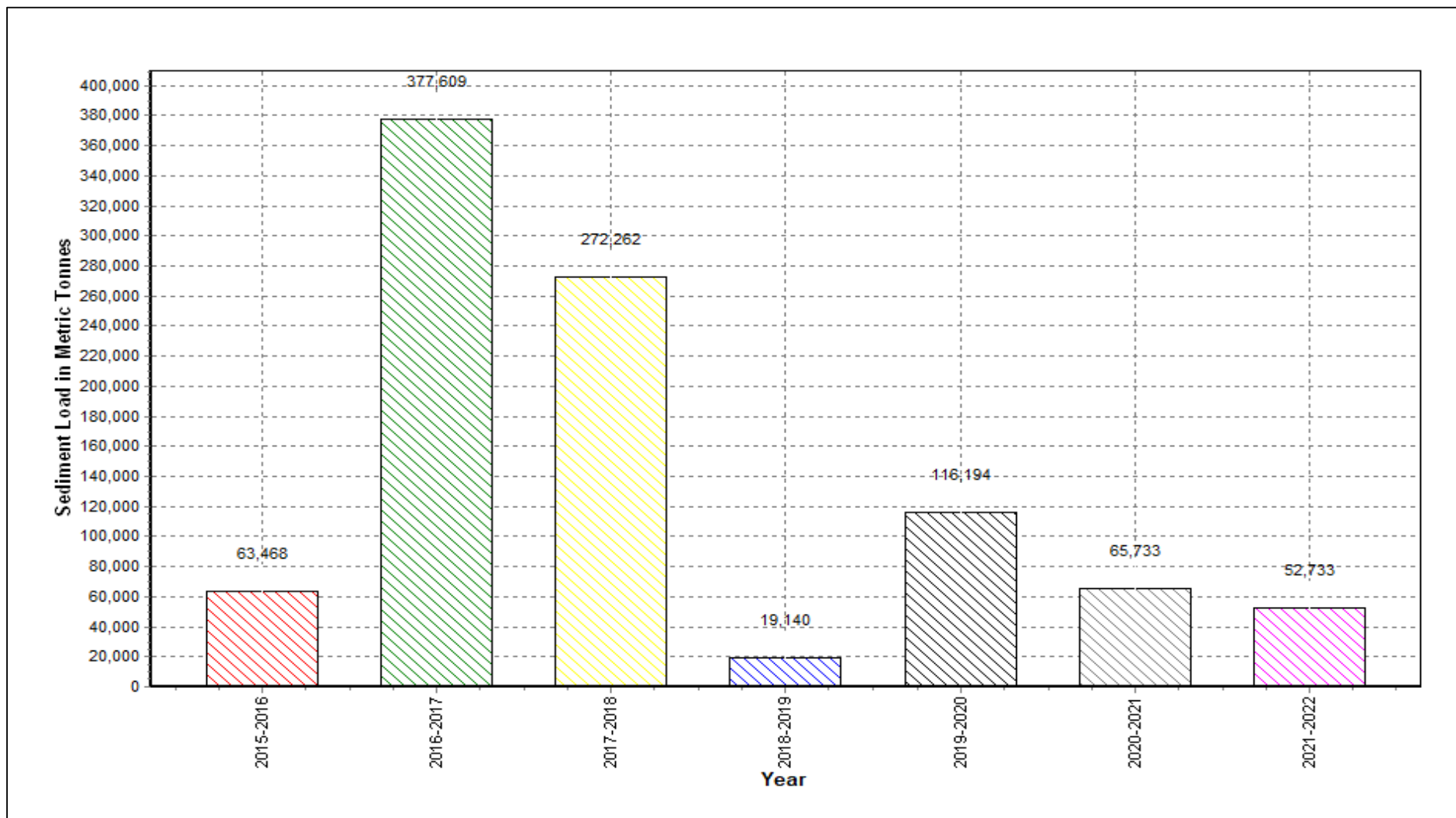
Annual Sediment Load for the period: 2015-2022

Station Name : Samdoli (Seasonal) ( AKX00A7)

Local River : Varna

Division : Upper Krishna Divn, Pune

Sub-Division : Upper Krishna SD, Miraj





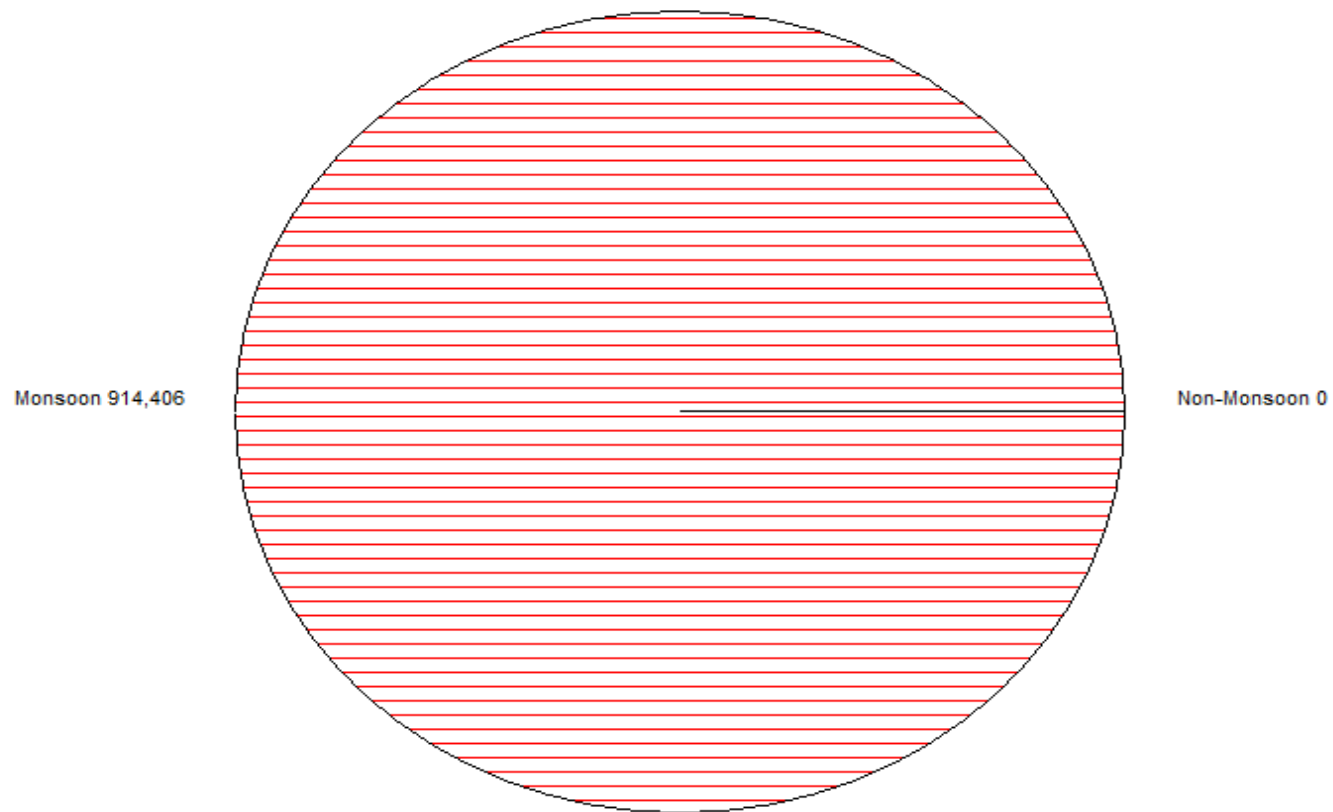
Seasonal Sediment Load for the period : 2015-2021

Station Name : Samdoli (Seasonal) ( AKX00A7)

Local River : Varna

Division : Upper Krishna Divn, Pune

Sub-Division : Upper Krishna SD , Miraj



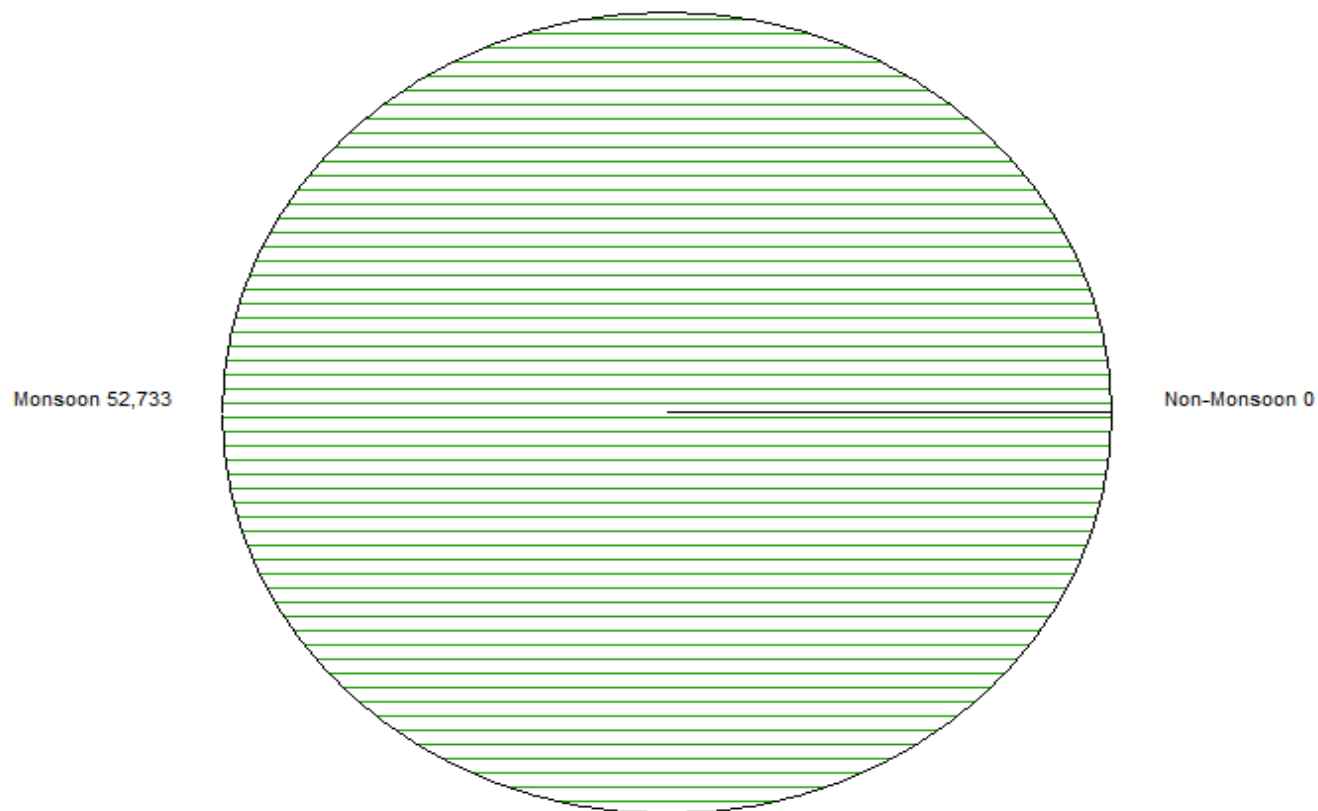
Seasonal Sediment Load for the Year: 2021-2022

Station Name : Samdoli (Seasonal) ( AKX00A7)

Local River : Varna

Division : Upper Krishna Divn, Pune

Sub-Division : Upper Krishna SD , Miraj



**BED MATERIAL ANALYSIS DATA FOR THE YEAR 2021-22**

SITE : VARNA AT SAMDOLI CODE : AKX00A7  
 MEASURING : UKDn CROSS SECTION : Station gauge line  
 AUTHORITY

**PreMonsoon Survey ( Date 03-05-2021 )**

Discharge Observed : 0 cumec Water edge RB : 407.85 m LB : 352.10 m  
 Area of section : 116.08 sq.m MeanVelocity : 0.0000 m/sec  
 Wetted perimeter : 56.47 m Hydraulic Mean Depth : 2.0556 m  
 Sl. R.D. of sampling point R.L. of bed in Mean diameter in Remarks  
 No in meters meters mm  
 1 395 529.195 1.67

Av.mean  
 dia "m" = 1.67

Silt factor  
 $"f" = 1.76 \sqrt{\quad}$  m  
 = 2.27

**Note :** i. Discharge observation was at station gauge line.  
 ii. River bed : Stagnant water.

**Monsoon Survey ( Date 21-08-2021 )**

Discharge Observed : 0 cumec Water edge RB : 408.50 m LB : 350.00 m  
 Area of section : 135.40 sq.m MeanVelocity : 0.0000 m/sec  
 Wetted perimeter : 59.26 m Hydraulic Mean Depth : 2.2848 m  
 Sl. R.D. of sampling point R.L. of bed in Mean diameter in Remarks  
 No in meters meters mm  
 1 395 529.205 1.61

Av.mean  
 dia "m" = 1.61

Silt factor  
 $"f" = 1.76 \sqrt{\quad}$  m  
 = 2.23

**Note :** i. Discharge observation was at station gauge line.  
 ii. River bed : Stagnant water.

**PostMonsoon Survey ( Date 05-11-2021 )**

Discharge Observed : 0 cumec Water edge RB : 405.00 m LB : 352.80 m  
 Area of section : 76.02 sq.m MeanVelocity : 0.0000 m/sec  
 Wetted perimeter : 52.61 m Hydraulic Mean Depth : 1.4450 m  
 Sl. R.D. of sampling point R.L. of bed in Mean diameter in Remarks  
 No in meters meters mm  
 1 395 529.235 2.16

Av.mean  
 dia "m" = 2.16

Silt factor  
 $"f" = 1.76 \sqrt{\quad}$  m  
 = 2.59

**Note :** i. Discharge observation was at station gauge line.  
 ii. River bed : Stagnant water.

## HISTORY SHEET

|                          |                                  |                   |                           |
|--------------------------|----------------------------------|-------------------|---------------------------|
|                          |                                  | <b>Water Year</b> | <b>: 2021-2022</b>        |
| <b>Site</b>              | <b>: Arjunwad (Seasonal)</b>     | <b>Code</b>       | <b>: AK000V4</b>          |
| State                    | : Maharashtra                    | District          | Kolhapur                  |
| Basin                    | : Krishna                        | Independent River | : Krishna                 |
| Tributary                | : -                              | Sub Tributary     | : -                       |
| Sub-Sub Tributary        | : -                              | Local River       | : Krishna                 |
| Division                 | : Upper Krishna Divn, Pune       | Sub-Division      | : Upper Krishna SD, Miraj |
| Drainage Area            | : 12660 Sq. Km.                  | Bank              | : Right                   |
| Latitude                 | : 16°46'33"                      | Longitude         | : 74°38'18"               |
| <b>Zero of Gauge (m)</b> | : 523 (m.s.l)<br>523.225 (m.s.l) | 01-02-1969        | - 31-12-1973              |
|                          | Opening Date                     | 01-01-1974        |                           |
|                          |                                  | Closing Date      |                           |
| Gauge                    | : 12-01-1969                     |                   |                           |
| Discharge                | : 12-01-1969                     |                   |                           |
| Sediment                 | : 26-12-2014                     |                   |                           |
| Water Quality            | : 01-09-2014                     |                   |                           |

**Daily Observed Sediment Datasheet for period : 2021-2022**

Station Name : Arjunwad (Seasonal) ( AK000V4)

Local River : Krishna

Division : Upper Krishna Divn, Pune

Sub-Division : Upper Krishna SD , Miraj

| Day            | Jun          |               |               |             |              |                   | Jul          |               |               |             |              |                   | Aug          |               |               |             |              |                   |
|----------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0.000             | 260.6        | 0.006         | 0.006         | 0.011       | 0.024        | 529               | 2336         | 0.008         | 0.008         | 0.026       | 0.042        | 8435              |
| 2              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0.000             | 212.2        | 0.006         | 0.006         | 0.011       | 0.023        | 412               | 2075         | 0.008         | 0.008         | 0.024       | 0.039        | 7047              |
| 3              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0.000             | 187.1        | 0.006         | 0.006         | 0.010       | 0.022        | 352               | 1649         | 0.008         | 0.008         | 0.022       | 0.037        | 5271              |
| 4              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0.000             | 179.6        | 0.006         | 0.006         | 0.010       | 0.022        | 337               | 1363         | 0.007         | 0.009         | 0.013       | 0.028        | 3250              |
| 5              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0.000             | 158.0        | 0.006         | 0.006         | 0.010       | 0.021        | 288               | 796.9        | 0.007         | 0.010         | 0.014       | 0.031        | 2141              |
| 6              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0.000             | 149.0        | 0.000         | 0.000         | 0.007       | 0.007        | 94                | 715.9        | 0.005         | 0.007         | 0.011       | 0.023        | 1404              |
| 7              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0.000             | 146.1        | 0.000         | 0.000         | 0.006       | 0.006        | 72                | 677.7        | 0.005         | 0.006         | 0.011       | 0.021        | 1241              |
| 8              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0.000             | 144.1        | 0.000         | 0.000         | 0.011       | 0.011        | 133               | 565.7        | 0.006         | 0.006         | 0.020       | 0.032        | 1290              |
| 9              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0.000             | 140.2        | 0.000         | 0.000         | 0.008       | 0.008        | 101               | 486.3        | 0.008         | 0.009         | 0.016       | 0.033        | 1370              |
| 10             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0.000             | 142.1        | 0.000         | 0.000         | 0.007       | 0.007        | 84                | 413.7        | 0.007         | 0.010         | 0.014       | 0.030        | 1079              |
| 11             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0.000             | 158.0        | 0.006         | 0.006         | 0.010       | 0.021        | 288               | 384.0        | 0.005         | 0.009         | 0.012       | 0.026        | 873               |
| 12             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0.000             | 87.55        | 0.000         | 0.000         | 0.016       | 0.016        | 119               | 364.7        | 0.008         | 0.011         | 0.014       | 0.033        | 1030              |
| 13             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0.000             | 161.5        | 0.004         | 0.004         | 0.008       | 0.016        | 218               | 347.3        | 0.005         | 0.008         | 0.010       | 0.023        | 693               |
| 14             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0.000             | 271.0        | 0.005         | 0.005         | 0.008       | 0.018        | 414               | 322.7        | 0.004         | 0.006         | 0.007       | 0.016        | 457               |
| 15             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0.000             | 311.5        | 0.006         | 0.006         | 0.009       | 0.020        | 549               | 340.4        | 0.006         | 0.006         | 0.012       | 0.025        | 735               |
| 16             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0.000             | 365.0        | 0.003         | 0.005         | 0.006       | 0.014        | 438               | 414.0        | 0.003         | 0.007         | 0.008       | 0.018        | 647               |
| 17             | 190.3        | 0.006         | 0.006         | 0.010       | 0.022        | 360               | 342.2        | 0.006         | 0.007         | 0.010       | 0.023        | 677               | 335.4        | 0.005         | 0.008         | 0.011       | 0.024        | 687               |
| 18             | 1070         | 0.007         | 0.007         | 0.019       | 0.033        | 3060              | 331.6        | 0.006         | 0.006         | 0.012       | 0.025        | 713               | 317.2        | 0.003         | 0.006         | 0.009       | 0.017        | 477               |
| 19             | 984.6        | 0.007         | 0.007         | 0.018       | 0.033        | 2773              | 351.9        | 0.005         | 0.006         | 0.011       | 0.021        | 651               | 320.0        | 0.003         | 0.003         | 0.011       | 0.015        | 462               |
| 20             | 1178         | 0.007         | 0.007         | 0.019       | 0.034        | 3460              | 339.8        | 0.004         | 0.007         | 0.010       | 0.021        | 622               | 295.5        | 0.006         | 0.009         | 0.012       | 0.027        | 684               |
| 21             | 881.7        | 0.007         | 0.007         | 0.018       | 0.032        | 2415              | 433.5        | 0.007         | 0.007         | 0.014       | 0.027        | 992               | 292.7        | 0.005         | 0.008         | 0.012       | 0.024        | 602               |
| 22             | 600.2        | 0.007         | 0.007         | 0.015       | 0.029        | 1494              | 713.7        | 0.006         | 0.008         | 0.012       | 0.025        | 1548              | 255.9        | 0.005         | 0.005         | 0.012       | 0.022        | 484               |
| 23             | 449.2        | 0.007         | 0.007         | 0.014       | 0.027        | 1036              | 1946         | 0.008         | 0.008         | 0.023       | 0.039        | 6522              | 231.9        | 0.006         | 0.010         | 0.012       | 0.027        | 549               |
| 24             | 405.4        | 0.007         | 0.007         | 0.013       | 0.026        | 918               | 2823         | 0.008         | 0.008         | 0.027       | 0.043        | 10414             | 231.4        | 0.005         | 0.009         | 0.014       | 0.028        | 556               |
| 25             | 356.6        | 0.006         | 0.006         | 0.013       | 0.025        | 782               | 3425         | 0.008         | 0.008         | 0.028       | 0.045        | 13288             | 216.1        | 0.006         | 0.009         | 0.011       | 0.026        | 484               |
| 26             | 343.4        | 0.006         | 0.006         | 0.013       | 0.025        | 745               | 3586         | 0.008         | 0.008         | 0.029       | 0.046        | 14129             | 187.0        | 0.004         | 0.006         | 0.010       | 0.020        | 328               |
| 27             | 314.9        | 0.006         | 0.006         | 0.012       | 0.025        | 672               | 3451         | 0.008         | 0.008         | 0.028       | 0.045        | 13417             | 186.8        | 0.005         | 0.008         | 0.009       | 0.021        | 342               |
| 28             | 314.9        | 0.006         | 0.006         | 0.012       | 0.025        | 672               | 3295         | 0.008         | 0.008         | 0.028       | 0.045        | 12696             | 170.1        | 0.005         | 0.007         | 0.012       | 0.024        | 359               |
| 29             | 294.8        | 0.006         | 0.006         | 0.012       | 0.024        | 616               | 2887         | 0.008         | 0.008         | 0.027       | 0.043        | 10751             | 140.2        | 0.005         | 0.006         | 0.012       | 0.022        | 271               |
| 30             | 281.2        | 0.006         | 0.006         | 0.012       | 0.024        | 583               | 2570         | 0.008         | 0.008         | 0.026       | 0.042        | 9238              | 156.4        | 0.004         | 0.006         | 0.012       | 0.022        | 297               |
| 31             |              |               |               |             |              |                   | 2589         | 0.008         | 0.008         | 0.026       | 0.042        | 9351              | 156.4        | 0.005         | 0.006         | 0.011       | 0.022        | 301               |
| Ten Daily Mean |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Ten Daily I    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 171.9        | 0.003         | 0.003         | 0.009       | 0.015        | 240               | 1022         | 0.007         | 0.008         | 0.015       | 0.030        | 2851              |
| Ten Daily II   | 342.3        | 0.007         | 0.007         | 0.017       | 0.030        | 2413              | 272.0        | 0.004         | 0.005         | 0.010       | 0.019        | 469               | 346.8        | 0.005         | 0.008         | 0.011       | 0.023        | 698               |
| Ten Daily III  | 424.2        | 0.006         | 0.006         | 0.013       | 0.026        | 993               | 2520         | 0.008         | 0.008         | 0.024       | 0.040        | 9304              | 203.2        | 0.005         | 0.008         | 0.011       | 0.024        | 424               |
| Monthly        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Total          |              |               |               |             |              | 19586             |              |               |               |             |              | 109438            |              |               |               |             |              | 32906             |

**Daily Observed Sediment Datasheet for period : 2021-2022**

Station Name : Arjunwad (Seasonal) ( AK000V4)

Local River : Krishna

Division : Upper Krishna Divn, Pune

Sub-Division : Upper Krishna SD , Miraj

| Day            | Sep          |               |               |             |              |                   | Oct          |               |               |             |              |                   | Nov          |               |               |             |              |                   |
|----------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1              | 147.3        | 0.003         | 0.004         | 0.009       | 0.017        | 213               | 224.3        | 0.005         | 0.007         | 0.017       | 0.029        | 560               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 2              | 133.4        | 0.001         | 0.002         | 0.008       | 0.012        | 137               | 181.8        | 0.006         | 0.006         | 0.010       | 0.022        | 341               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 3              | 125.5        | 0.000         | 0.000         | 0.005       | 0.005        | 50                | 181.8        | 0.006         | 0.006         | 0.010       | 0.022        | 341               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 4              | 110.9        | 0.000         | 0.000         | 0.002       | 0.002        | 23                | 214.3        | 0.005         | 0.007         | 0.019       | 0.031        | 572               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 5              | 106.9        | 0.006         | 0.006         | 0.008       | 0.019        | 177               | 217.0        | 0.002         | 0.004         | 0.013       | 0.020        | 367               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 6              | 124.5        | 0.000         | 0.000         | 0.003       | 0.003        | 32                | 216.7        | 0.001         | 0.003         | 0.013       | 0.016        | 300               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 7              | 134.2        | 0.000         | 0.000         | 0.005       | 0.005        | 54                | 191.9        | 0.000         | 0.000         | 0.014       | 0.014        | 232               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 8              | 141.1        | 0.003         | 0.004         | 0.007       | 0.014        | 169               | 181.2        | 0.000         | 0.000         | 0.017       | 0.017        | 258               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 9              | 467.1        | 0.009         | 0.011         | 0.019       | 0.039        | 1586              | 199.8        | 0.000         | 0.000         | 0.018       | 0.018        | 312               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 10             | 463.6        | 0.007         | 0.007         | 0.014       | 0.027        | 1085              | 198.9        | 0.006         | 0.006         | 0.010       | 0.022        | 380               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 11             | 472.9        | 0.011         | 0.014         | 0.025       | 0.050        | 2039              | 214.3        | 0.003         | 0.005         | 0.013       | 0.021        | 393               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 12             | 416.6        | 0.007         | 0.007         | 0.013       | 0.026        | 950               | 335.5        | 0.005         | 0.006         | 0.013       | 0.023        | 667               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 13             | 595.0        | 0.011         | 0.013         | 0.024       | 0.048        | 2468              | 373.1        | 0.005         | 0.006         | 0.010       | 0.022        | 693               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 14             | 817.2        | 0.010         | 0.009         | 0.026       | 0.045        | 3184              | 301.7        | 0.004         | 0.006         | 0.010       | 0.020        | 511               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 15             | 1008         | 0.011         | 0.013         | 0.024       | 0.048        | 4188              | 174.4        | 0.006         | 0.006         | 0.010       | 0.021        | 322               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 16             | 1088         | 0.013         | 0.014         | 0.027       | 0.054        | 5097              | 193.3        | 0.000         | 0.000         | 0.008       | 0.008        | 125               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 17             | 751.7        | 0.008         | 0.010         | 0.023       | 0.041        | 2643              | 174.4        | 0.006         | 0.006         | 0.010       | 0.021        | 322               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 18             | 380.7        | 0.009         | 0.011         | 0.017       | 0.037        | 1214              | 189.4        | 0.000         | 0.000         | 0.006       | 0.006        | 95                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 19             | 330.3        | 0.006         | 0.006         | 0.012       | 0.025        | 711               | 144.1        | 0.006         | 0.006         | 0.009       | 0.021        | 255               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 20             | 272.1        | 0.006         | 0.008         | 0.014       | 0.028        | 658               | 109.6        | 0.000         | 0.000         | 0.009       | 0.009        | 83                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 21             | 232.1        | 0.005         | 0.007         | 0.014       | 0.026        | 517               | 105.4        | 0.000         | 0.000         | 0.011       | 0.011        | 96                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 22             | 199.4        | 0.007         | 0.008         | 0.015       | 0.031        | 525               | 109.7        | 0.000         | 0.000         | 0.013       | 0.013        | 118               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 23             | 189.3        | 0.006         | 0.008         | 0.016       | 0.030        | 484               | 102.8        | 0.000         | 0.000         | 0.009       | 0.009        | 83                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 24             | 179.7        | 0.005         | 0.007         | 0.016       | 0.028        | 435               | 97.29        | 0.005         | 0.005         | 0.008       | 0.019        | 157               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 25             | 235.5        | 0.005         | 0.007         | 0.016       | 0.028        | 568               | 111.8        | 0.000         | 0.000         | 0.008       | 0.008        | 77                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 26             | 232.5        | 0.006         | 0.006         | 0.011       | 0.023        | 458               | 123.5        | 0.000         | 0.000         | 0.011       | 0.011        | 113               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 27             | 227.2        | 0.006         | 0.008         | 0.017       | 0.031        | 599               | 134.4        | 0.000         | 0.000         | 0.007       | 0.007        | 86                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 28             | 189.0        | 0.005         | 0.006         | 0.015       | 0.026        | 416               | 147.0        | 0.000         | 0.000         | 0.010       | 0.010        | 123               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 29             | 182.5        | 0.004         | 0.005         | 0.014       | 0.022        | 353               | 120.4        | 0.000         | 0.000         | 0.008       | 0.008        | 87                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 30             | 177.1        | 0.003         | 0.006         | 0.015       | 0.024        | 373               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 31             |              |               |               |             |              |                   | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |              |               |               |             |              |                   |
| Ten Daily Mean |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Ten Daily I    | 195.4        | 0.003         | 0.003         | 0.008       | 0.014        | 353               | 200.8        | 0.003         | 0.004         | 0.014       | 0.021        | 366               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Ten Daily II   | 613.3        | 0.009         | 0.010         | 0.021       | 0.040        | 2315              | 221.0        | 0.003         | 0.004         | 0.010       | 0.017        | 347               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Ten Daily III  | 204.4        | 0.005         | 0.007         | 0.015       | 0.027        | 473               | 95.67        | 0.001         | 0.001         | 0.009       | 0.011        | 105               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Monthly        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Total          |              |               |               |             |              | 31408             |              |               |               |             |              | 8072              |              |               |               |             |              | 0                 |

**Annual Sediment Load for period : 2015-2022****Station Name : Arjunwad (Seasonal) ( AK000V4)****Division : Upper Krishna Divn, Pune****Local River : Krishna****Sub-Division : Upper Krishna SD , Miraj**

| Year      | Monsoon<br>(M.T.) | Non-Monsoon<br>(M.T.) | Annual Load<br>(M.T.) | Annual Run Off<br>(MCM) |
|-----------|-------------------|-----------------------|-----------------------|-------------------------|
| 2015-2016 | 80997             | 0                     | 80997                 | 1438                    |
| 2016-2017 | 417748            | 0                     | 417748                | 7208                    |
| 2017-2018 | 126978            | 0                     | 126978                | 3929                    |
| 2018-2019 | 161198            | 0                     | 161198                | 7179                    |
| 2019-2020 | 639761            | 0                     | 639761                | 14064                   |
| 2020-2021 | 140695            | 0                     | 140695                | 5846                    |
| 2021-2022 | 201411            | 0                     | 201411                | 5906                    |

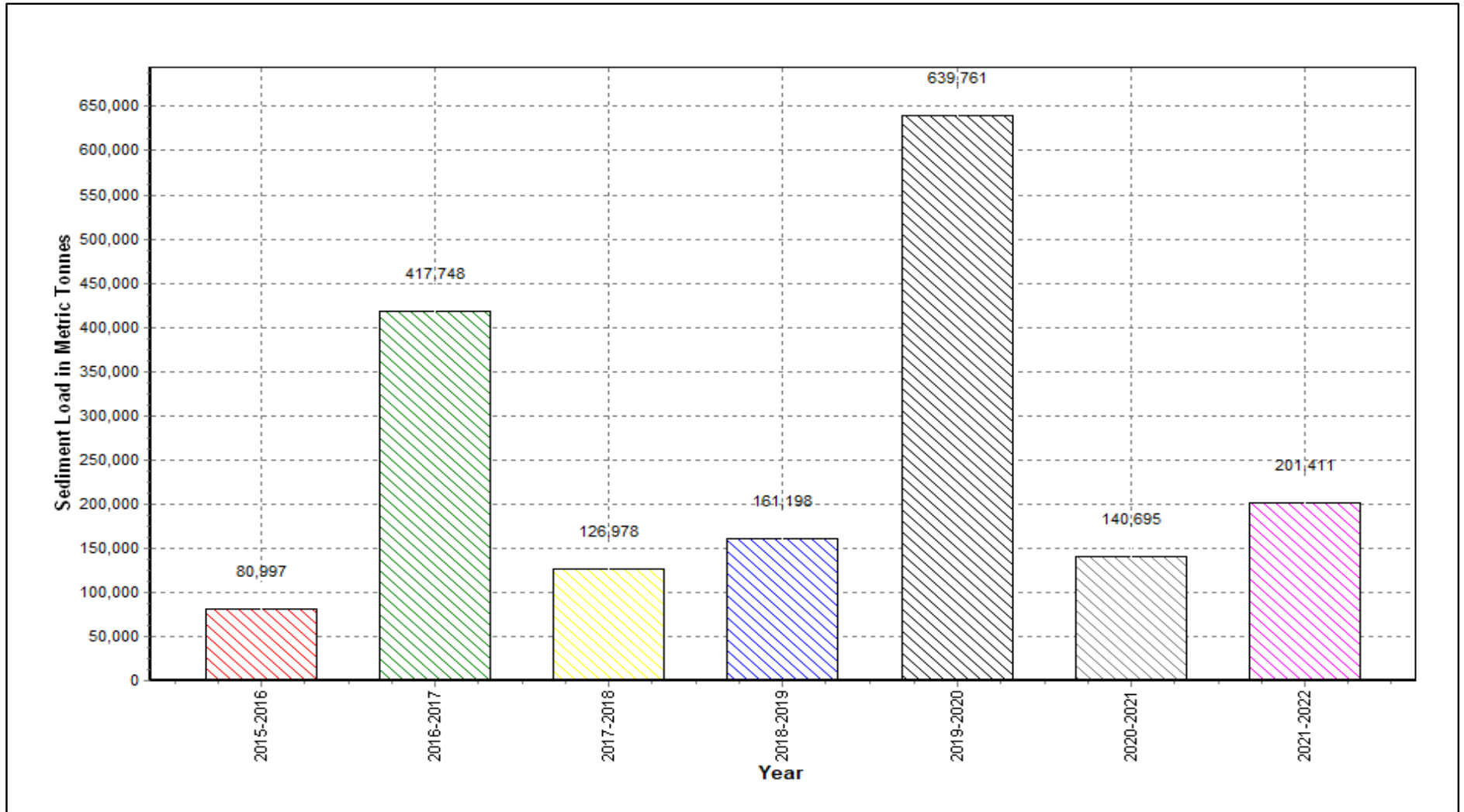
Annual Sediment Load for the period: 2015-2022

Station Name : Arjunwad (Seasonal) ( AK000V4)

Local River : Krishna

Division : Upper Krishna Divn, Pune

Sub-Division : Upper Krishna SD , Miraj





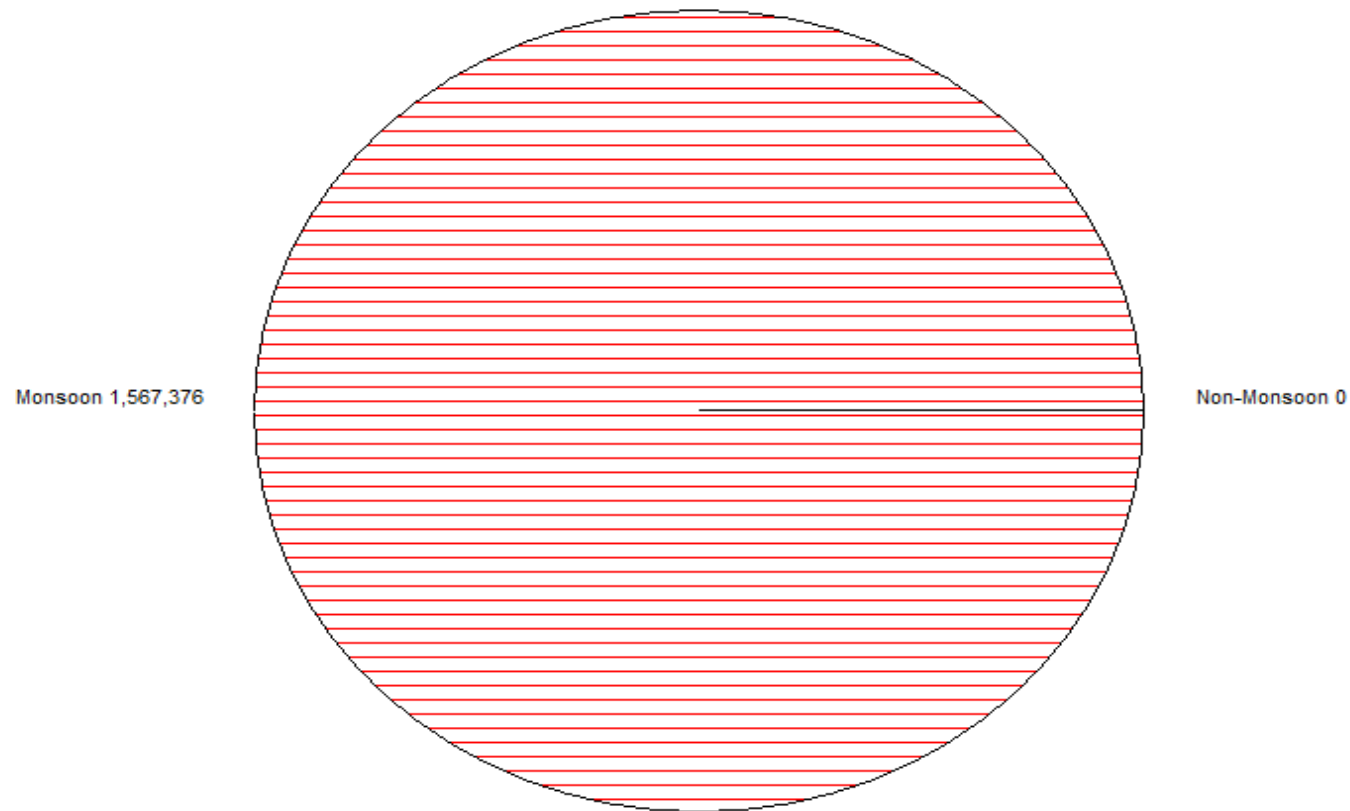
Seasonal Sediment Load for the period : 2015-2021

Station Name : Arjunwad (Seasonal) ( AK000V4)

Local River : Krishna

Division : Upper Krishna Divn, Pune

Sub-Division : Upper Krishna SD , Miraj



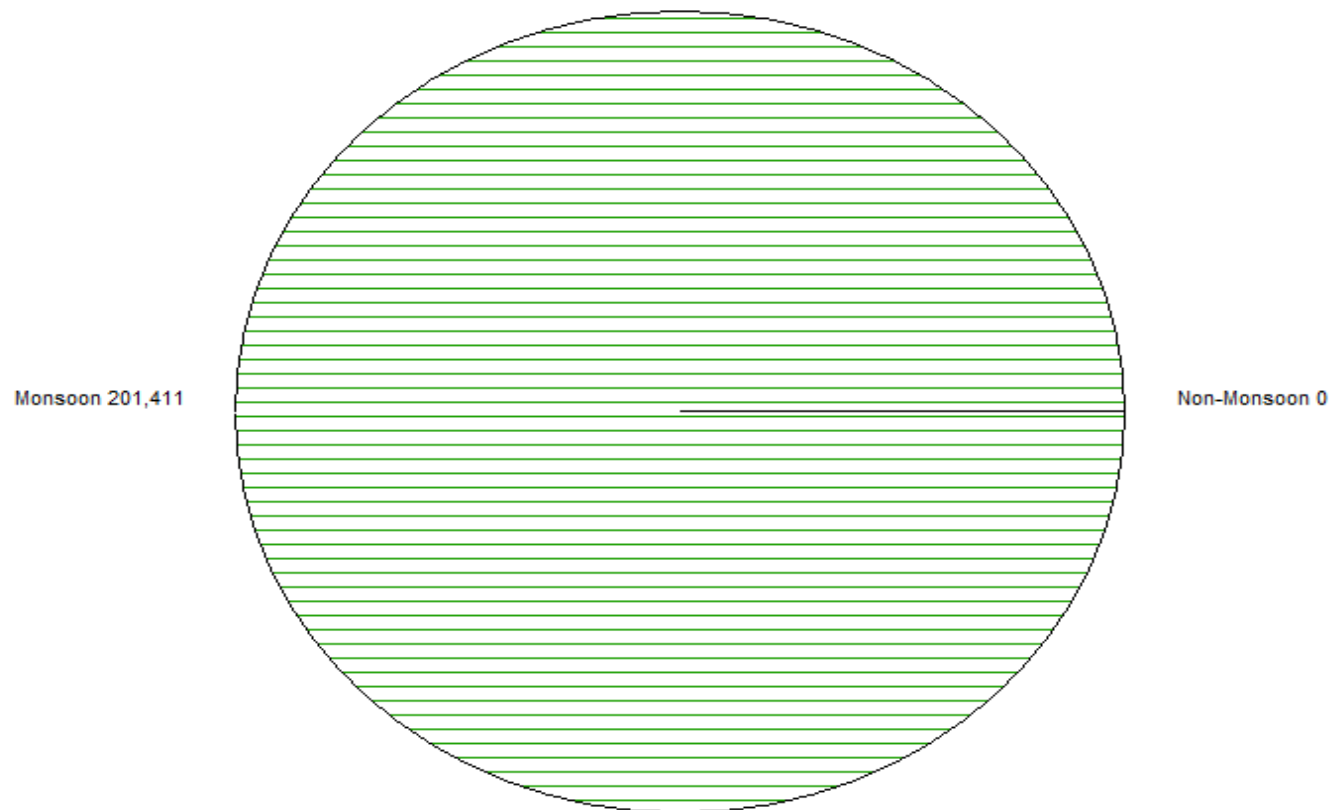
Seasonal Sediment Load for the Year: 2021-2022

Station Name : Arjunwad (Seasonal) ( AK000V4)

Local River : Krishna

Division : Upper Krishna Divn, Pune

Sub-Division : Upper Krishna SD , Miraj



**BED MATERIAL ANALYSIS DATA FOR THE YEAR 2021-22**

SITE : KRISHNA AT ARJUNWAD CODE : AK000V4  
 MEASURING : UKDn CROSS SECTION : Station gauge line  
 AUTHORITY

**PreMonsoon Survey ( Date 19-05-2021 )**

Discharge Observed : 0 cumec Water edge RB : 271.90 m LB : 140.50 m  
 Area of section : 638.90 sq.m MeanVelocity : 0.0000 m/sec  
 Wetted perimeter : 133.52 m Hydraulic Mean Depth : 4.7851 m  
 Sl. R.D. of sampling point R.L. of bed in Mean diameter in Remarks  
 No in meters meters mm  
 1 180 532.535 0.11  
 2 230 523.085 3.24  
 Av.mean  
 dia "m" = 1.67  
 Silt factor  
 "f" = 1.76  $\sqrt{\quad}$  m  
 = 2.28

**Note :** i. Discharge observation was at station gauge line.  
 ii. River bed : Stagnant water.

**Monsoon Survey ( Date )**

Discharge Observed : --- cumec Water edge RB : --- m LB : --- m  
 Area of section : --- sq.m MeanVelocity : --- m/sec  
 Wetted perimeter : --- m Hydraulic Mean Depth : --- m  
 Sl. R.D. of sampling point R.L. of bed in Mean diameter in Remarks  
 No in meters meters mm

Survey not conducted

**Note :**

**PostMonsoon Survey ( Date 02-11-2021 )**

Discharge Observed : 0 cumec Water edge RB : 269.00 m LB : 143.00 m  
 Area of section : 548.20 sq.m MeanVelocity : 0.0000 m/sec  
 Wetted perimeter : 127.11 m Hydraulic Mean Depth : 4.3128 m  
 Sl. R.D. of sampling point R.L. of bed in Mean diameter in Remarks  
 No in meters meters mm  
 1 180 523.825 0.27  
 2 230 523.025 3.27  
 Av.mean  
 dia "m" = 1.77  
 Silt factor  
 "f" = 1.76  $\sqrt{\quad}$  m  
 = 2.34

**Note :** i. Discharge observation was at station gauge line.  
 ii. River bed : Stagnant water.

## HISTORY SHEET

|                          |                            |                   |                           |
|--------------------------|----------------------------|-------------------|---------------------------|
|                          |                            | <b>Water Year</b> | <b>: 2021-2022</b>        |
| <b>Site</b>              | <b>: Kurundwad</b>         | <b>Code</b>       | <b>: AK000V1</b>          |
| State                    | : Maharashtra              | District          | Kolhapur                  |
| Basin                    | : Krishna                  | Independent River | : Krishna                 |
| Tributary                | : -                        | Sub Tributary     | : -                       |
| Sub-Sub Tributary        | : -                        | Local River       | : Krishna                 |
| Division                 | : Upper Krishna Divn, Pune | Sub-Division      | : Upper Krishna SD, Miraj |
| Drainage Area            | : 15190 Sq. Km.            | Bank              | : Right                   |
| Latitude                 | : 16°40'57"                | Longitude         | : 74°36'14"               |
| <b>Zero of Gauge (m)</b> | : 519.455 (m.s.l)          | 20-05-1972        |                           |
|                          | : 519.455 (m.s.l)          | 01-01-1990        | - 31-12-1994              |
|                          | Opening Date               | Closing Date      |                           |
| Gauge                    | : 21-05-1972               |                   |                           |
| Discharge                | : 26-05-1972               |                   |                           |
| Sediment                 | : 06-08-2003               |                   |                           |
| Water Quality            | : 01-07-2003               |                   |                           |

**Daily Observed Sediment Datasheet for period : 2021-2022**

Station Name : Kurundwad ( AK000V1)

Local River : Krishna

Division : Upper Krishna Divn, Pune

Sub-Division : Upper Krishna SD , Miraj

| Day            | Jun          |               |               |             |              |                   | Jul          |               |               |             |              |                   | Aug          |               |               |             |              |                   |
|----------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 398.2        | 0.002         | 0.003         | 0.009       | 0.014        | 464               | 4916         | 0.003         | 0.008         | 0.049       | 0.061        | 25698             |
| 2              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 306.8        | 0.002         | 0.003         | 0.007       | 0.012        | 310               | 4446         | 0.003         | 0.008         | 0.046       | 0.057        | 21820             |
| 3              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 235.3        | 0.002         | 0.002         | 0.006       | 0.010        | 205               | 3688         | 0.003         | 0.007         | 0.041       | 0.051        | 16093             |
| 4              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 223.3        | 0.002         | 0.002         | 0.006       | 0.010        | 191               | 2521         | 0.003         | 0.006         | 0.031       | 0.040        | 8692              |
| 5              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 211.5        | 0.002         | 0.002         | 0.006       | 0.010        | 174               | 1901         | 0.002         | 0.006         | 0.026       | 0.034        | 5519              |
| 6              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 239.1        | 0.010         | 0.007         | 0.024       | 0.041        | 843               | 1906         | 0.002         | 0.006         | 0.026       | 0.034        | 5551              |
| 7              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 195.9        | 0.013         | 0.007         | 0.016       | 0.036        | 603               | 1828         | 0.002         | 0.006         | 0.025       | 0.033        | 5179              |
| 8              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 191.1        | 0.002         | 0.006         | 0.027       | 0.035        | 573               | 1541         | 0.002         | 0.005         | 0.022       | 0.030        | 3955              |
| 9              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 156.4        | 0.001         | 0.010         | 0.031       | 0.042        | 569               | 1215         | 0.002         | 0.005         | 0.019       | 0.026        | 2698              |
| 10             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 199.0        | 0.008         | 0.008         | 0.034       | 0.050        | 853               | 989.7        | 0.002         | 0.004         | 0.016       | 0.023        | 1941              |
| 11             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 175.4        | 0.002         | 0.002         | 0.005       | 0.009        | 132               | 833.2        | 0.002         | 0.004         | 0.015       | 0.021        | 1483              |
| 12             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 210.6        | 0.001         | 0.000         | 0.026       | 0.028        | 508               | 738.7        | 0.002         | 0.004         | 0.013       | 0.019        | 1225              |
| 13             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 347.8        | 0.008         | 0.023         | 0.028       | 0.060        | 1794              | 642.0        | 0.002         | 0.004         | 0.012       | 0.018        | 982               |
| 14             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 958.4        | 0.001         | 0.001         | 0.018       | 0.021        | 1706              | 642.3        | 0.002         | 0.004         | 0.012       | 0.018        | 982               |
| 15             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 933.3        | 0.001         | 0.002         | 0.009       | 0.013        | 1016              | 648.0        | 0.002         | 0.004         | 0.012       | 0.018        | 996               |
| 16             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 1192         | 0.001         | 0.009         | 0.029       | 0.039        | 4058              | 782.4        | 0.002         | 0.004         | 0.014       | 0.020        | 1345              |
| 17             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 1089         | 0.007         | 0.019         | 0.079       | 0.104        | 9825              | 692.3        | 0.005         | 0.011         | 0.087       | 0.103        | 6179              |
| 18             | 2455         | 0.003         | 0.006         | 0.031       | 0.039        | 8337              | 935.5        | 0.002         | 0.004         | 0.016       | 0.022        | 1778              | 559.3        | 0.002         | 0.007         | 0.014       | 0.023        | 1116              |
| 19             | 2902         | 0.003         | 0.007         | 0.034       | 0.044        | 10931             | 956.0        | 0.001         | 0.003         | 0.003       | 0.007        | 570               | 543.0        | 0.002         | 0.003         | 0.011       | 0.016        | 755               |
| 20             | 2964         | 0.003         | 0.007         | 0.035       | 0.044        | 11292             | 996.6        | 0.005         | 0.013         | 0.036       | 0.054        | 4632              | 498.4        | 0.003         | 0.006         | 0.022       | 0.030        | 1305              |
| 21             | 2749         | 0.003         | 0.007         | 0.033       | 0.042        | 9999              | 1213         | 0.002         | 0.005         | 0.019       | 0.026        | 2694              | 533.2        | 0.008         | 0.012         | 0.019       | 0.039        | 1806              |
| 22             | 2076         | 0.003         | 0.006         | 0.027       | 0.036        | 6368              | 1713         | 0.002         | 0.003         | 0.021       | 0.026        | 3788              | 419.8        | 0.002         | 0.003         | 0.009       | 0.014        | 504               |
| 23             | 1329         | 0.002         | 0.005         | 0.020       | 0.027        | 3112              | 3516         | 0.003         | 0.007         | 0.039       | 0.049        | 14916             | 403.7        | 0.009         | 0.009         | 0.027       | 0.045        | 1566              |
| 24             | 781.7        | 0.002         | 0.004         | 0.014       | 0.020        | 1344              | 5147         | 0.003         | 0.009         | 0.051       | 0.062        | 27750             | 365.0        | 0.002         | 0.003         | 0.015       | 0.020        | 640               |
| 25             | 681.4        | 0.002         | 0.004         | 0.013       | 0.018        | 1077              | 6552         | 0.003         | 0.010         | 0.060       | 0.073        | 41096             | 334.9        | 0.003         | 0.006         | 0.014       | 0.023        | 660               |
| 26             | 615.1        | 0.002         | 0.003         | 0.012       | 0.017        | 914               | 6964         | 0.003         | 0.010         | 0.063       | 0.076        | 45426             | 367.6        | 0.002         | 0.005         | 0.012       | 0.019        | 610               |
| 27             | 590.7        | 0.002         | 0.003         | 0.011       | 0.017        | 857               | 6900         | 0.003         | 0.010         | 0.062       | 0.075        | 44714             | 348.4        | 0.002         | 0.004         | 0.012       | 0.018        | 527               |
| 28             | 564.1        | 0.002         | 0.003         | 0.011       | 0.017        | 804               | 6625         | 0.003         | 0.010         | 0.061       | 0.073        | 41902             | 275.6        | 0.003         | 0.003         | 0.050       | 0.056        | 1336              |
| 29             | 501.7        | 0.002         | 0.003         | 0.010       | 0.015        | 668               | 6231         | 0.003         | 0.009         | 0.058       | 0.070        | 37845             | 347.0        | 0.002         | 0.003         | 0.008       | 0.013        | 378               |
| 30             | 456.4        | 0.002         | 0.003         | 0.010       | 0.015        | 576               | 5718         | 0.003         | 0.009         | 0.055       | 0.067        | 32905             | 244.7        | 0.002         | 0.003         | 0.040       | 0.046        | 962               |
| 31             |              |               |               |             |              |                   | 5670         | 0.003         | 0.009         | 0.055       | 0.066        | 32428             | 235.0        | 0.004         | 0.004         | 0.011       | 0.019        | 382               |
| Ten Daily Mean |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Ten Daily I    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 235.7        | 0.004         | 0.005         | 0.016       | 0.026        | 478               | 2495         | 0.002         | 0.006         | 0.030       | 0.039        | 9715              |
| Ten Daily II   | 832.1        | 0.003         | 0.007         | 0.033       | 0.042        | 10187             | 779.5        | 0.003         | 0.008         | 0.025       | 0.036        | 2602              | 658.0        | 0.003         | 0.005         | 0.021       | 0.029        | 1637              |
| Ten Daily III  | 1035         | 0.002         | 0.004         | 0.016       | 0.022        | 2572              | 5114         | 0.003         | 0.008         | 0.049       | 0.060        | 29588             | 352.2        | 0.004         | 0.005         | 0.020       | 0.028        | 852               |
| Monthly        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Total          |              |               |               |             |              | 56279             |              |               |               |             |              | 356268            |              |               |               |             |              | 122884            |

Annual Sediment Load (Metric Tonnes) : 606214

**Daily Observed Sediment Datasheet for period : 2021-2022**

Station Name : Kurundwad ( AK000V1)

Local River : Krishna

Division : Upper Krishna Divn, Pune

Sub-Division : Upper Krishna SD , Miraj

| Day            | Sep          |               |               |             |              |                   | Oct          |               |               |             |              |                   | Nov          |               |               |             |              |                   |
|----------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1              | 287.3        | 0.001         | 0.003         | 0.030       | 0.034        | 837               | 536.3        | 0.002         | 0.002         | 0.015       | 0.018        | 843               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 2              | 291.6        | 0.003         | 0.004         | 0.022       | 0.029        | 718               | 461.4        | 0.002         | 0.003         | 0.010       | 0.015        | 582               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 3              | 301.4        | 0.004         | 0.006         | 0.021       | 0.030        | 786               | 444.1        | 0.002         | 0.003         | 0.009       | 0.014        | 553               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 4              | 335.7        | 0.004         | 0.005         | 0.014       | 0.023        | 679               | 414.9        | 0.001         | 0.002         | 0.009       | 0.012        | 434               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 5              | 315.6        | 0.002         | 0.003         | 0.007       | 0.012        | 322               | 419.8        | 0.002         | 0.002         | 0.010       | 0.014        | 490               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 6              | 358.5        | 0.005         | 0.007         | 0.008       | 0.019        | 598               | 417.3        | 0.002         | 0.003         | 0.011       | 0.016        | 577               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 7              | 393.5        | 0.005         | 0.012         | 0.029       | 0.045        | 1537              | 330.1        | 0.002         | 0.003         | 0.011       | 0.016        | 442               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 8              | 465.1        | 0.004         | 0.006         | 0.029       | 0.039        | 1547              | 370.0        | 0.003         | 0.003         | 0.011       | 0.017        | 550               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 9              | 994.9        | 0.004         | 0.008         | 0.024       | 0.037        | 3137              | 438.0        | 0.003         | 0.004         | 0.009       | 0.015        | 583               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 10             | 1200         | 0.002         | 0.005         | 0.019       | 0.026        | 2643              | 405.3        | 0.002         | 0.003         | 0.009       | 0.014        | 476               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 11             | 1210         | 0.002         | 0.005         | 0.019       | 0.026        | 2676              | 361.0        | 0.003         | 0.004         | 0.010       | 0.017        | 527               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 12             | 1104         | 0.002         | 0.004         | 0.018       | 0.024        | 2318              | 577.4        | 0.003         | 0.003         | 0.010       | 0.016        | 793               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 13             | 1353         | 0.002         | 0.005         | 0.020       | 0.027        | 3192              | 732.9        | 0.003         | 0.003         | 0.010       | 0.016        | 1007              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 14             | 1939         | 0.002         | 0.006         | 0.026       | 0.034        | 5696              | 462.4        | 0.002         | 0.002         | 0.011       | 0.015        | 591               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 15             | 2539         | 0.003         | 0.006         | 0.031       | 0.040        | 8798              | 410.1        | 0.002         | 0.003         | 0.003       | 0.008        | 276               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 16             | 2688         | 0.003         | 0.007         | 0.033       | 0.042        | 9640              | 332.8        | 0.002         | 0.002         | 0.009       | 0.012        | 336               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 17             | 1770         | 0.002         | 0.005         | 0.024       | 0.032        | 4925              | 363.1        | 0.002         | 0.003         | 0.008       | 0.013        | 405               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 18             | 871.1        | 0.002         | 0.004         | 0.015       | 0.021        | 1588              | 304.4        | 0.001         | 0.002         | 0.008       | 0.011        | 284               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 19             | 550.9        | 0.002         | 0.003         | 0.011       | 0.016        | 771               | 329.0        | 0.002         | 0.003         | 0.008       | 0.012        | 344               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 20             | 441.7        | 0.001         | 0.003         | 0.016       | 0.020        | 752               | 289.5        | 0.001         | 0.002         | 0.007       | 0.010        | 253               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 21             | 403.0        | 0.001         | 0.003         | 0.015       | 0.018        | 637               | 286.3        | 0.001         | 0.002         | 0.002       | 0.005        | 121               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 22             | 351.6        | 0.002         | 0.005         | 0.017       | 0.023        | 705               | 293.8        | 0.001         | 0.002         | 0.002       | 0.005        | 132               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 23             | 422.2        | 0.002         | 0.003         | 0.018       | 0.023        | 821               | 324.5        | 0.001         | 0.002         | 0.002       | 0.005        | 132               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 24             | 486.5        | 0.002         | 0.003         | 0.012       | 0.017        | 698               | 320.1        | 0.002         | 0.003         | 0.008       | 0.012        | 332               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 25             | 524.8        | 0.002         | 0.003         | 0.012       | 0.016        | 744               | 289.5        | 0.001         | 0.001         | 0.001       | 0.003        | 85                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 26             | 483.9        | 0.002         | 0.003         | 0.010       | 0.015        | 631               | 278.8        | 0.001         | 0.001         | 0.001       | 0.003        | 63                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 27             | 434.3        | 0.001         | 0.002         | 0.012       | 0.015        | 574               | 270.3        | 0.000         | 0.001         | 0.001       | 0.002        | 35                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 28             | 386.4        | 0.002         | 0.003         | 0.013       | 0.018        | 588               | 273.5        | 0.000         | 0.001         | 0.001       | 0.001        | 33                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 29             | 400.6        | 0.002         | 0.002         | 0.009       | 0.013        | 450               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        |                   | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 30             | 398.2        | 0.001         | 0.002         | 0.012       | 0.015        | 499               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        |                   | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 31             |              |               |               |             |              |                   | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        |                   |              |               |               |             |              |                   |
| Ten Daily Mean |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Ten Daily I    | 494.3        | 0.003         | 0.006         | 0.020       | 0.029        | 1280              | 423.7        | 0.002         | 0.003         | 0.010       | 0.015        | 553               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Ten Daily II   | 1447         | 0.002         | 0.005         | 0.021       | 0.028        | 4036              | 416.2        | 0.002         | 0.003         | 0.008       | 0.013        | 482               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Ten Daily III  | 429.1        | 0.002         | 0.003         | 0.013       | 0.017        | 635               | 212.4        | 0.001         | 0.001         | 0.002       | 0.004        | 117               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Monthly        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Total          |              |               |               |             |              | 59505             |              |               |               |             |              | 11278             |              |               |               |             |              | 0                 |

Annual Sediment Load (Metric Tonnes) : 606214

**Daily Observed Sediment Datasheet for period : 2021-2022**

Station Name : Kurundwad ( AK000V1)

Local River : Krishna

Division : Upper Krishna Divn, Pune

Sub-Division : Upper Krishna SD , Miraj

| Day            | Dec          |               |               |             |              |                   | Jan          |               |               |             |              |                   | Feb          |               |               |             |              |                   |
|----------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 2              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 3              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 4              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 5              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 6              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 7              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 8              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 9              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 10             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 11             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 12             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 13             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 14             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 15             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 16             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 17             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 18             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 19             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 20             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 21             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 22             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 23             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 24             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 25             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 26             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 27             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 28             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 29             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |              |               |               |             |              |                   |
| 30             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |              |               |               |             |              |                   |
| 31             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |              |               |               |             |              |                   |
| Ten Daily Mean |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Ten Daily I    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Ten Daily II   | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Ten Daily III  | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Monthly        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Total          |              |               |               |             |              | 0                 |              |               |               |             |              | 0                 |              |               |               |             |              | 0                 |

**Daily Observed Sediment Datasheet for period : 2021-2022**

Station Name : Kurundwad ( AK000V1)

Local River : Krishna

Division : Upper Krishna Divn, Pune

Sub-Division : Upper Krishna SD , Miraj

| Day            | Mar          |               |               |             |              |                   | Apr          |               |               |             |              |                   | May          |               |               |             |              |                   |
|----------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 2              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 3              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 4              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 5              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 6              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 7              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 8              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 9              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 10             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 11             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 12             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 13             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 14             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 15             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 16             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 17             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 18             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 19             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 20             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 21             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 22             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 23             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 24             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 25             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 26             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 27             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 28             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 29             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 30             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 31             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |              |               |               |             |              |                   | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Ten Daily Mean |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Ten Daily I    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Ten Daily II   | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Ten Daily III  | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Monthly        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Total          |              |               |               |             |              |                   |              |               |               |             |              | 0                 |              |               |               |             |              | 0                 |



**Annual Sediment Load for period : 2004-2022**

**Station Name : Kurundwad ( AK000V1)**

**Local River : Krishna**

**Division : Upper Krishna Divn, Pune**

**Sub-Division : Upper Krishna SD , Miraj**

| Year      | Monsoon<br>(M.T.) | Non-Monsoon<br>(M.T.) | Annual Load<br>(M.T.) | Annual Run Off<br>(MCM) |
|-----------|-------------------|-----------------------|-----------------------|-------------------------|
| 2004-2005 | 2466379           | 0                     | 2466379               | 10797                   |
| 2005-2006 | 10090639          | 0                     | 10090639              | 23671                   |
| 2006-2007 | 13996248          | 0                     | 13996248              | 24683                   |
| 2007-2008 | 3294729           | 0                     | 3294729               | 16759                   |
| 2008-2009 | 2612715           | 0                     | 2612715               | 11813                   |
| 2009-2010 | 2014165           | 0                     | 2014165               | 8346                    |
| 2010-2011 | 1710965           | 0                     | 1710965               | 9826                    |
| 2011-2012 | 1986629           | 0                     | 1986629               | 11582                   |
| 2012-2013 | 864701            | 0                     | 864701                | 8574                    |
| 2013-2014 | 2907414           | 0                     | 2907414               | 12350                   |
| 2014-2015 | 1309435           | 0                     | 1309435               | 10147                   |
| 2015-2016 | 239944            | 0                     | 239944                | 3440                    |
| 2016-2017 | 2455598           | 0                     | 2455598               | 10937                   |
| 2017-2018 | 828483            | 0                     | 828483                | 8640                    |
| 2018-2019 | 948670            | 0                     | 948670                | 11876                   |
| 2019-2020 | 1555864           | 0                     | 1555864               | 21699                   |
| 2020-2021 | 558269            | 0                     | 558269                | 12429                   |
| 2021-2022 | 606214            | 0                     | 606214                | 13384                   |

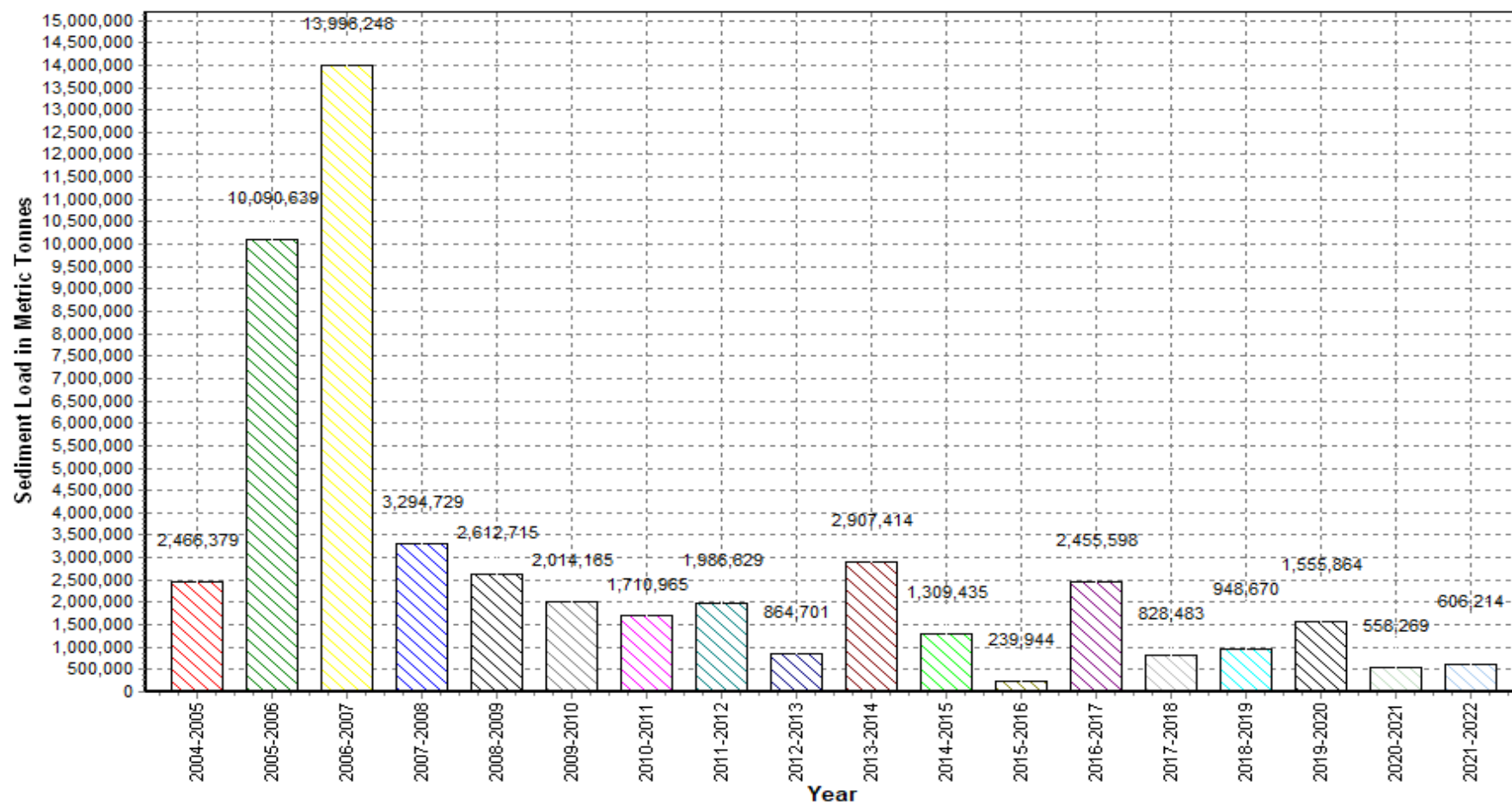
# Annual Sediment Load for the period: 2004-2022

Station Name : Kurundwad ( AK000V1)

Local River : Krishna

Division : Upper Krishna Divn, Pune

Sub-Division : Upper Krishna SD, Miraj



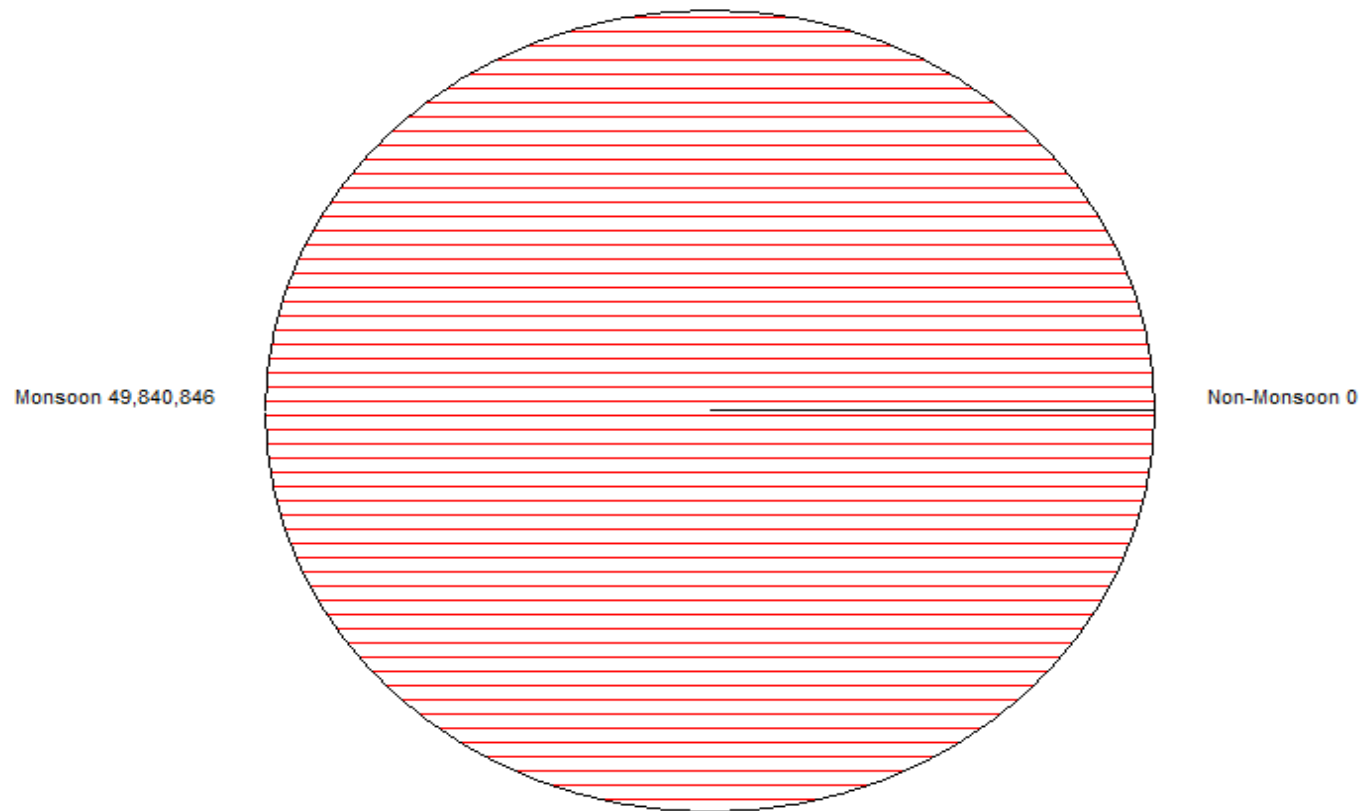
Seasonal Sediment Load for the period : 2004-2021

Station Name : Kurundwad ( AK000V1)

Local River : Krishna

Division : Upper Krishna Divn, Pune

Sub-Division : Upper Krishna SD, Miraj



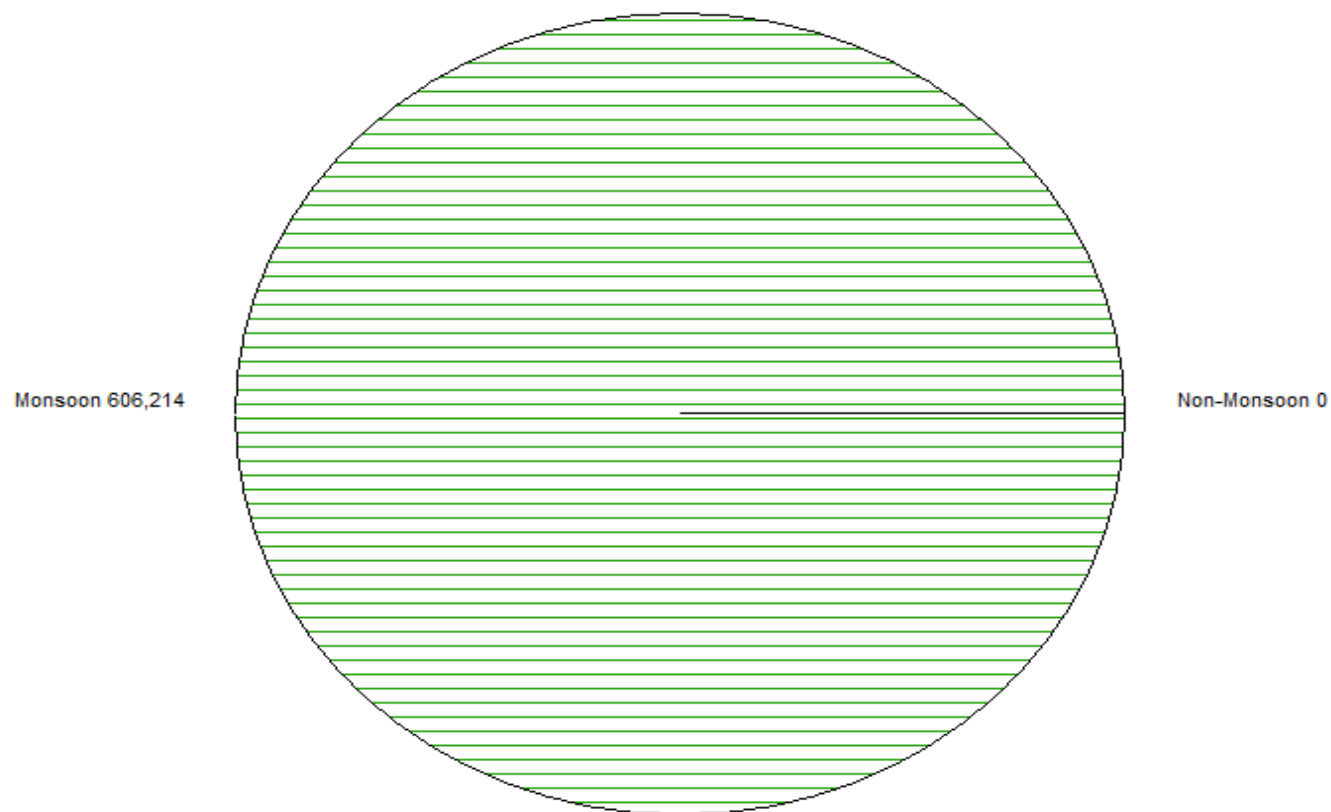
Seasonal Sediment Load for the Year: 2021-2022

Station Name : Kurundwad ( AK000V1)

Local River : Krishna

Division : Upper Krishna Divn, Pune

Sub-Division : Upper Krishna SD , Miraj



**Note: Bed Material Survey could not be done due to high depth in River.**

## HISTORY SHEET

|                          |                                  |                          |                    |
|--------------------------|----------------------------------|--------------------------|--------------------|
|                          |                                  | <b>Water Year</b>        | <b>: 2021-2022</b> |
| <b>Site</b>              | <b>: Gokak Falls (Seasonal)</b>  | <b>Code</b>              | <b>: AKT00P9</b>   |
| State                    | : Karnataka                      | District                 | Belgaum            |
| Basin                    | : Krishna                        | Independent River        | : Krishna          |
| Tributary                | : Ghataprabha                    | Sub Tributary            | : -                |
| Sub-Sub Tributary        | : -                              | Local River              | : Ghataprabha      |
| Division                 | : CAUVERY DIVISION               | Sub-Division             | : MKSD BAGALKOTE   |
| Drainage Area            | : 2770 Sq. Km.                   | Bank                     | : Right            |
| Latitude                 | : 16°11'24"                      | Longitude                | : 74°47'29"        |
| <b>Zero of Gauge (m)</b> | : 536 (m.s.l)<br>536.004 (m.s.l) | 01-09-2003<br>21-03-1971 | - 31-08-2003       |
|                          | Opening Date                     | Closing Date             |                    |
| Gauge                    | : 21-03-1971                     |                          |                    |
| Discharge                | : 14-07-1971                     |                          |                    |
| Sediment                 | : 27-12-2014                     |                          |                    |
| Water Quality            | : 01-09-2014                     |                          |                    |

**Daily Observed Sediment Datasheet for period : 2021-2022**

**Station Name : Gokak Falls (Seasonal) ( AKT00P9)**

**Local River : Ghataprabha**

**Division : CAUVERY DIVISION**

**Sub-Division : MKSD BAGALKOTE**

| Day                   | Jun          |                               |               |             |              |                   | Jul          |               |               |             |              |                   | Aug          |               |               |             |              |                   |
|-----------------------|--------------|-------------------------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                       | Q<br>cumecs. | Coarse<br>g/l                 | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1                     | 0.000        | 0.000                         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 308.0        |               |               |             |              |                   |
| 2                     | 0.000        | 0.000                         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 275.9        |               |               |             |              |                   |
| 3                     | 0.000        | 0.000                         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 207.3        |               |               |             |              |                   |
| 4                     | 0.000        | 0.000                         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 126.5        |               |               |             |              |                   |
| 5                     | 0.000        | 0.000                         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 126.5        |               |               |             |              |                   |
| 6                     | 0.000        | 0.000                         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 417.2        |               |               |             |              |                   |
| 7                     | 0.000        | 0.000                         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 244.3        |               |               |             |              |                   |
| 8                     | 0.000        | 0.000                         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 143.8        |               |               |             |              |                   |
| 9                     | 0.000        | 0.000                         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 92.63        |               |               |             |              |                   |
| 10                    | 0.000        | 0.000                         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 59.24        |               |               |             |              |                   |
| 11                    | 0.000        | 0.000                         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 35.16        |               |               |             |              |                   |
| 12                    | 0.000        | 0.000                         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 29.32        |               |               |             |              |                   |
| 13                    | 0.000        | 0.000                         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 18.38        |               |               |             |              |                   |
| 14                    | 0.000        | 0.000                         | 0.000         | 0.000       | 0.000        | 0                 | 67.60        |               |               |             |              |                   | 66.99        |               |               |             |              |                   |
| 15                    | 0.000        | 0.000                         | 0.000         | 0.000       | 0.000        | 0                 | 65.16        |               |               |             |              |                   | 53.00        |               |               |             |              |                   |
| 16                    | 0.000        | 0.000                         | 0.000         | 0.000       | 0.000        | 0                 | 107.1        |               |               |             |              |                   | 80.36        |               |               |             |              |                   |
| 17                    | 0.000        | 0.000                         | 0.000         | 0.000       | 0.000        | 0                 | 87.09        |               |               |             |              |                   | 75.79        |               |               |             |              |                   |
| 18                    | 282.7        |                               |               |             |              |                   | 53.55        |               |               |             |              |                   | 67.60        |               |               |             |              |                   |
| 19                    | 294.1        | Sediment not observed at site |               |             |              |                   | 38.00        |               |               |             |              |                   | 88.46        |               |               |             |              |                   |
| 20                    | 267.0        |                               |               |             |              |                   | 80.36        |               |               |             |              |                   | 74.50        |               |               |             |              |                   |
| 21                    | 0.000        | 0.000                         | 0.000         | 0.000       | 0.000        | 0                 | 89.15        |               |               |             |              |                   | 64.56        |               |               |             |              |                   |
| 22                    | 0.000        | 0.000                         | 0.000         | 0.000       | 0.000        | 0                 | 136.3        |               |               |             |              |                   | 60.99        |               |               |             |              |                   |
| 23                    | 0.000        | 0.000                         | 0.000         | 0.000       | 0.000        | 0                 | 453.9        |               |               |             |              |                   | 27.23        |               |               |             |              |                   |
| 24                    | 0.000        | 0.000                         | 0.000         | 0.000       | 0.000        | 0                 | 1126         |               |               |             |              |                   | 22.81        |               |               |             |              |                   |
| 25                    | 0.000        | 0.000                         | 0.000         | 0.000       | 0.000        | 0                 | 1438         |               |               |             |              |                   | 24.78        |               |               |             |              |                   |
| 26                    | 0.000        | 0.000                         | 0.000         | 0.000       | 0.000        | 0                 | 631.2        |               |               |             |              |                   | 27.44        |               |               |             |              |                   |
| 27                    | 0.000        | 0.000                         | 0.000         | 0.000       | 0.000        | 0                 | 759.0        |               |               |             |              |                   | 20.67        |               |               |             |              |                   |
| 28                    | 0.000        | 0.000                         | 0.000         | 0.000       | 0.000        | 0                 | 626.5        |               |               |             |              |                   | 16.76        |               |               |             |              |                   |
| 29                    | 0.000        | 0.000                         | 0.000         | 0.000       | 0.000        | 0                 | 212.3        |               |               |             |              |                   | 14.05        |               |               |             |              |                   |
| 30                    | 0.000        | 0.000                         | 0.000         | 0.000       | 0.000        | 0                 | 164.8        |               |               |             |              |                   | 13.67        |               |               |             |              |                   |
| 31                    |              |                               |               |             |              |                   | 252.9        |               |               |             |              |                   | 15.13        |               |               |             |              |                   |
| <b>Ten Daily Mean</b> |              |                               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| <b>Ten Daily I</b>    | 0.000        | 0.000                         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 200.1        |               |               |             |              |                   |
| <b>Ten Daily II</b>   | 84.38        | 0.000                         | 0.000         | 0.000       | 0.000        | 0                 | 49.89        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 58.96        |               |               |             |              |                   |
| <b>Ten Daily III</b>  | 0.000        | 0.000                         | 0.000         | 0.000       | 0.000        | 0                 | 535.5        |               |               |             |              |                   | 28.01        |               |               |             |              |                   |
| <b>Monthly</b>        |              |                               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| <b>Total</b>          |              |                               |               |             |              | 0                 |              |               |               |             |              | 0                 |              |               |               |             |              |                   |

**Annual Sediment Load (Metric Tonnes) : 0**

**Daily Observed Sediment Datasheet for period : 2021-2022**

**Station Name : Gokak Falls (Seasonal) ( AKT00P9)**

**Local River : Ghataprabha**

**Division : CAUVERY DIVISION**

**Sub-Division : MKSD BAGALKOTE**

| Day                   | Sep          |               |               |             |              |                   | Oct          |               |               |             |              |                   | Nov          |               |               |             |              |                   |
|-----------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                       | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1                     | 12.19        |               |               |             |              |                   | 30.06        |               |               |             |              |                   | 14.82        |               |               |             |              |                   |
| 2                     | 11.60        |               |               |             |              |                   | 69.46        |               |               |             |              |                   | 12.98        |               |               |             |              |                   |
| 3                     | 10.60        |               |               |             |              |                   | 40.43        |               |               |             |              |                   | 16.28        |               |               |             |              |                   |
| 4                     | 10.23        |               |               |             |              |                   | 26.01        |               |               |             |              |                   | 22.21        |               |               |             |              |                   |
| 5                     | 11.06        |               |               |             |              |                   | 23.40        |               |               |             |              |                   | 22.21        |               |               |             |              |                   |
| 6                     | 11.29        |               |               |             |              |                   | 23.60        |               |               |             |              |                   | 14.95        |               |               |             |              |                   |
| 7                     | 16.33        |               |               |             |              |                   | 26.09        |               |               |             |              |                   | 18.68        |               |               |             |              |                   |
| 8                     | 47.06        |               |               |             |              |                   | 28.92        |               |               |             |              |                   | 17.07        |               |               |             |              |                   |
| 9                     | 63.96        |               |               |             |              |                   | 90.54        |               |               |             |              |                   | 18.02        |               |               |             |              |                   |
| 10                    | 116.3        |               |               |             |              |                   | 42.43        |               |               |             |              |                   | 18.02        |               |               |             |              |                   |
| 11                    | 96.18        |               |               |             |              |                   | 60.99        |               |               |             |              |                   | 25.28        |               |               |             |              |                   |
| 12                    | 117.0        |               |               |             |              |                   | 63.96        |               |               |             |              |                   | 25.47        |               |               |             |              |                   |
| 13                    | 279.3        |               |               |             |              |                   | 34.24        |               |               |             |              |                   | 22.21        |               |               |             |              |                   |
| 14                    | 280.4        |               |               |             |              |                   | 29.78        |               |               |             |              |                   | 10.66        |               |               |             |              |                   |
| 15                    | 234.8        |               |               |             |              |                   | 23.20        |               |               |             |              |                   | 10.66        |               |               |             |              |                   |
| 16                    | 166.6        |               |               |             |              |                   | 22.43        |               |               |             |              |                   | 13.06        |               |               |             |              |                   |
| 17                    | 94.75        |               |               |             |              |                   | 22.81        |               |               |             |              |                   | 10.66        |               |               |             |              |                   |
| 18                    | 70.71        |               |               |             |              |                   | 22.53        |               |               |             |              |                   | 13.77        |               |               |             |              |                   |
| 19                    | 60.40        |               |               |             |              |                   | 22.43        |               |               |             |              |                   | 21.93        |               |               |             |              |                   |
| 20                    | 40.43        |               |               |             |              |                   | 18.38        |               |               |             |              |                   | 23.89        |               |               |             |              |                   |
| 21                    | 23.95        |               |               |             |              |                   | 19.45        |               |               |             |              |                   | 30.40        |               |               |             |              |                   |
| 22                    | 15.73        |               |               |             |              |                   | 12.40        |               |               |             |              |                   | 32.87        |               |               |             |              |                   |
| 23                    | 15.95        |               |               |             |              |                   | 15.50        |               |               |             |              |                   | 37.17        |               |               |             |              |                   |
| 24                    | 14.05        |               |               |             |              |                   | 8.836        |               |               |             |              |                   | 36.52        |               |               |             |              |                   |
| 25                    | 12.51        |               |               |             |              |                   | 9.272        |               |               |             |              |                   | 54.09        |               |               |             |              |                   |
| 26                    | 15.98        |               |               |             |              |                   | 12.15        |               |               |             |              |                   | 44.47        |               |               |             |              |                   |
| 27                    | 14.68        |               |               |             |              |                   | 19.56        |               |               |             |              |                   | 35.08        |               |               |             |              |                   |
| 28                    | 14.05        |               |               |             |              |                   | 15.10        |               |               |             |              |                   | 30.40        |               |               |             |              |                   |
| 29                    | 17.03        |               |               |             |              |                   | 16.82        |               |               |             |              |                   | 35.08        |               |               |             |              |                   |
| 30                    | 10.83        |               |               |             |              |                   | 16.18        |               |               |             |              |                   | 33.17        |               |               |             |              |                   |
| 31                    |              |               |               |             |              |                   | 22.97        |               |               |             |              |                   |              |               |               |             |              |                   |
| <b>Ten Daily Mean</b> |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| <b>Ten Daily I</b>    | 31.06        |               |               |             |              |                   | 40.09        |               |               |             |              |                   | 17.52        |               |               |             |              |                   |
| <b>Ten Daily II</b>   | 144.1        |               |               |             |              |                   | 32.07        |               |               |             |              |                   | 17.76        |               |               |             |              |                   |
| <b>Ten Daily III</b>  | 15.48        |               |               |             |              |                   | 15.29        |               |               |             |              |                   | 36.92        |               |               |             |              |                   |
| <b>Monthly</b>        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |

Total

**Annual Sediment Load (Metric Tonnes) : 0**

**Daily Observed Sediment Datasheet for period : 2021-2022**

Station Name : Gokak Falls (Seasonal) ( AKT00P9)

Local River : Ghataprabha

Division : CAUVERY DIVISION

Sub-Division : MKSD BAGALKOTE

| Day                   | Dec          |                               |               |             |              |                   | Jan          |                               |               |             |              |                   | Feb          |               |               |             |              |                   |
|-----------------------|--------------|-------------------------------|---------------|-------------|--------------|-------------------|--------------|-------------------------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                       | Q<br>cumecs. | Coarse<br>g/l                 | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l                 | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1                     | 33.86        | Sediment not observed at site |               |             |              |                   | 24.06        | Sediment not observed at site |               |             |              |                   | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 2                     | 32.10        |                               |               |             |              |                   | 25.01        |                               |               |             |              |                   | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 3                     | 41.20        |                               |               |             |              |                   | 29.47        |                               |               |             |              |                   | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 4                     | 40.86        |                               |               |             |              |                   | 29.47        |                               |               |             |              |                   | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 5                     | 32.10        |                               |               |             |              |                   | 25.04        |                               |               |             |              |                   | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 6                     | 21.12        |                               |               |             |              |                   | 24.54        |                               |               |             |              |                   | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 7                     | 30.97        |                               |               |             |              |                   | 23.81        |                               |               |             |              |                   | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 8                     | 30.83        |                               |               |             |              |                   | 23.60        |                               |               |             |              |                   | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 9                     | 28.04        |                               |               |             |              |                   | 23.14        |                               |               |             |              |                   | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 10                    | 27.15        |                               |               |             |              |                   | 22.23        |                               |               |             |              |                   | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 11                    | 26.14        |                               |               |             |              |                   | 7.804        |                               |               |             |              |                   | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 12                    | 26.95        |                               |               |             |              |                   | 8.382        |                               |               |             |              |                   | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 13                    | 26.35        |                               |               |             |              |                   | 18.75        |                               |               |             |              |                   | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 14                    | 30.06        |                               |               |             |              |                   | 18.75        |                               |               |             |              |                   | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 15                    | 31.18        |                               |               |             |              |                   | 5.651        |                               |               |             |              |                   | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 16                    | 36.49        |                               |               |             |              |                   | 18.75        |                               |               |             |              |                   | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 17                    | 32.26        |                               |               |             |              |                   | 18.75        |                               |               |             |              |                   | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 18                    | 32.05        | Sediment not observed at site |               |             |              |                   | 0.000        | 0.000                         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 19                    | 26.95        |                               |               |             |              |                   | 0.000        | 0.000                         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 20                    | 30.11        |                               |               |             |              |                   | 0.000        | 0.000                         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 21                    | 20.02        |                               |               |             |              |                   | 0.000        | 0.000                         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 22                    | 24.35        |                               |               |             |              |                   | 0.000        | 0.000                         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 23                    | 25.56        |                               |               |             |              |                   | 0.000        | 0.000                         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 24                    | 25.65        |                               |               |             |              |                   | 0.000        | 0.000                         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 25                    | 26.95        |                               |               |             |              |                   | 0.000        | 0.000                         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 26                    | 27.95        |                               |               |             |              |                   | 0.000        | 0.000                         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 27                    | 27.18        |                               |               |             |              |                   | 0.000        | 0.000                         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 28                    | 25.79        |                               |               |             |              |                   | 0.000        | 0.000                         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 29                    | 24.47        |                               |               |             |              |                   | 0.000        | 0.000                         | 0.000         | 0.000       | 0.000        | 0                 |              |               |               |             |              |                   |
| 30                    | 21.43        |                               |               |             |              |                   | 0.000        | 0.000                         | 0.000         | 0.000       | 0.000        | 0                 |              |               |               |             |              |                   |
| 31                    | 22.37        |                               |               |             |              |                   | 0.000        | 0.000                         | 0.000         | 0.000       | 0.000        | 0                 |              |               |               |             |              |                   |
| <b>Ten Daily Mean</b> |              |                               |               |             |              |                   |              |                               |               |             |              |                   |              |               |               |             |              |                   |
| <b>Ten Daily I</b>    | 31.82        |                               |               |             |              |                   | 25.04        |                               |               |             |              |                   | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| <b>Ten Daily II</b>   | 29.85        |                               |               |             |              |                   | 9.684        | 0.000                         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| <b>Ten Daily III</b>  | 24.70        |                               |               |             |              |                   | 0.000        | 0.000                         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| <b>Monthly</b>        |              |                               |               |             |              |                   |              |                               |               |             |              |                   |              |               |               |             |              |                   |
| <b>Total</b>          |              |                               |               |             |              |                   |              |                               |               |             |              |                   |              |               |               |             |              | 0                 |

Annual Sediment Load (Metric Tonnes) : 0



**Daily Observed Sediment Datasheet for period : 2021-2022**

Station Name : Gokak Falls (Seasonal) ( AKT00P9)

Local River : Ghataprabha

Division : CAUVERY DIVISION

Sub-Division : MKSD BAGALKOTE

| Day            | Mar          |               |               |             |              |                   | Apr          |               |               |             |              |                   | May          |               |               |             |              |                   |
|----------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 2              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 3              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 4              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 5              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 6              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 7              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 8              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 9              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 10             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 11             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 12             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 13             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 14             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 15             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 16             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 17             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 18             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 19             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 20             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 21             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 22             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 23             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 24             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 25             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 26             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 27             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 28             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 29             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 30             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 31             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |              |               |               |             |              |                   | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Ten Daily Mean |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Ten Daily I    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Ten Daily II   | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Ten Daily III  | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Monthly        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Total          |              |               |               |             |              | 0                 |              |               |               |             |              | 0                 |              |               |               |             |              | 0                 |

Annual Sediment Load (Metric Tonnes) : 0

**Annual Sediment Load for period : 2015-2022****Station Name : Gokak Falls (Seasonal) ( AKT00P9)****Division : CAUVERY DIVISION****Local River : Ghataprabha****Sub-Division : MKSD BAGALKOTE**

| Year      | Monsoon<br>(M.T.) | Non-Monsoon<br>(M.T.) | Annual Load<br>(M.T.) | Annual Run Off<br>(MCM) |
|-----------|-------------------|-----------------------|-----------------------|-------------------------|
| 2015-2016 | 3018              | 0                     | 3018                  | 734                     |
| 2016-2017 | 64748             | 0                     | 64748                 | 837                     |
| 2017-2018 | 17014             | 0                     | 17014                 | 463                     |
| 2018-2019 | 85457             | 0                     | 85457                 | 1306                    |
| 2019-2020 | 68053             | 0                     | 68053                 | 4044                    |
| 2020-2021 | 0                 | 0                     | 0                     | 2502                    |
| 2021-2022 | 0                 | 0                     | 0                     | 1286                    |

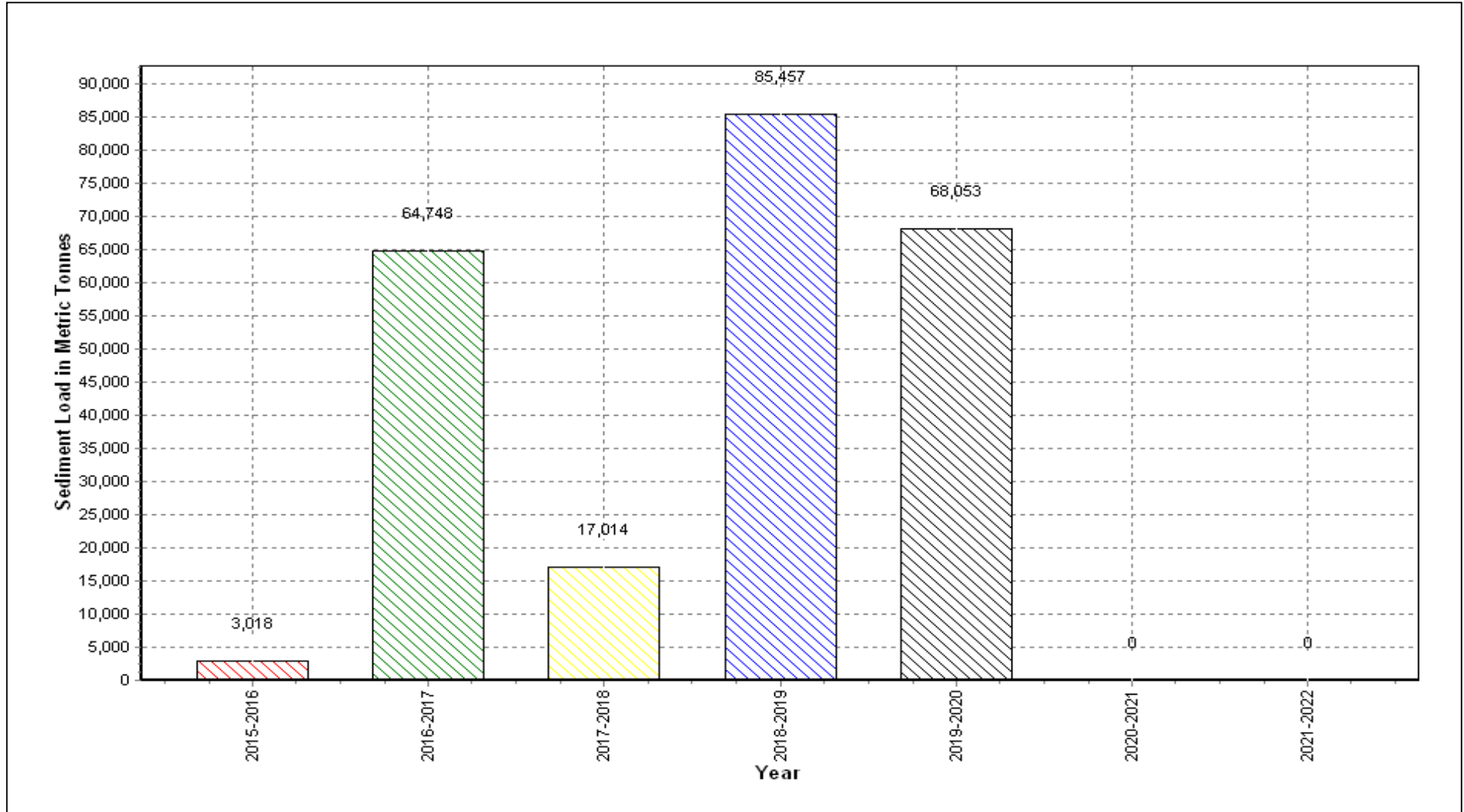
Annual Sediment Load for the period: 2015-2022

Station Name : Gokak Falls (Seasonal) ( AKT00P9)

Local River : Ghataprabha

Division : CAUVERY DIVISION

Sub-Division : MKSD BAGALKOTE



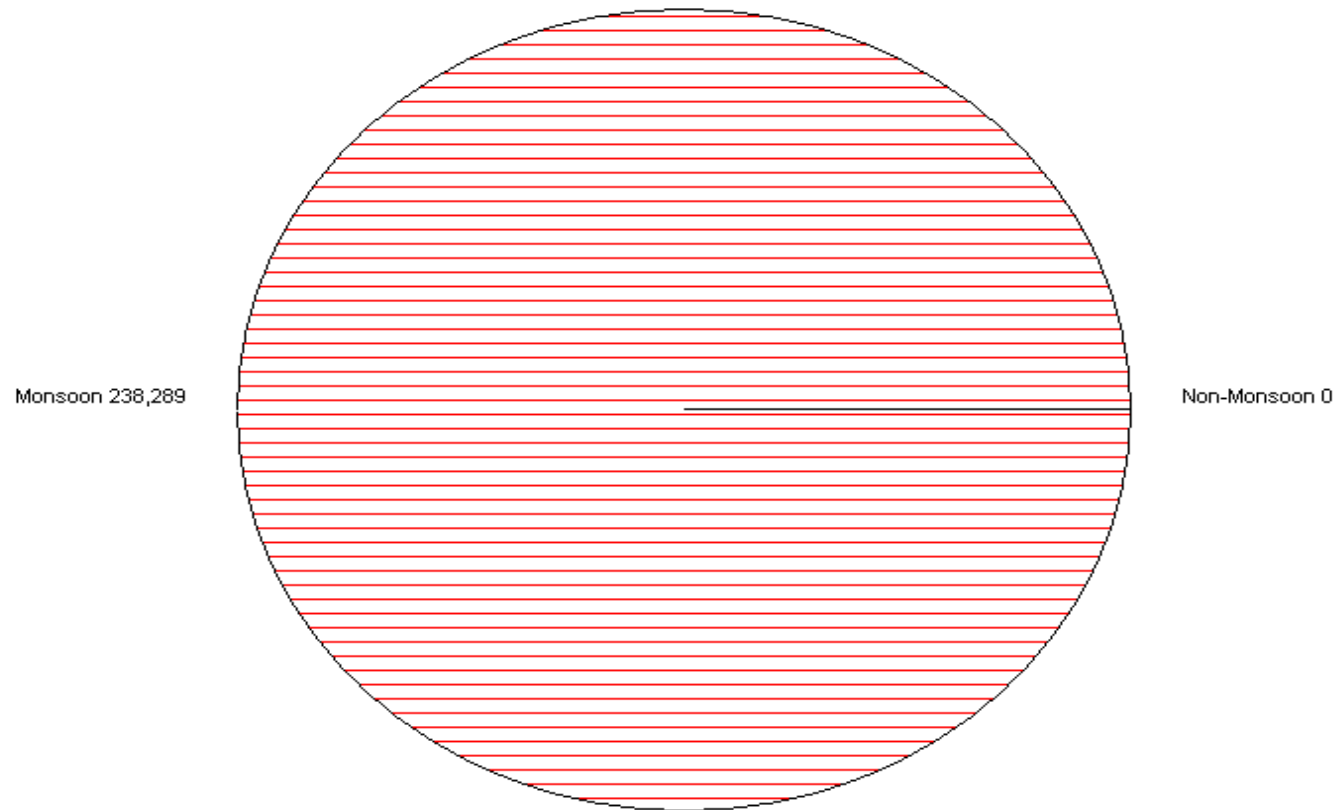
Seasonal Sediment Load for the period : 2015-2021

Station Name : Gokak Falls (Seasonal) ( AKT00P9)

Local River : Ghataprabha

Division : CAUVERY DIVISION

Sub-Division : MKSD BAGALKOTE



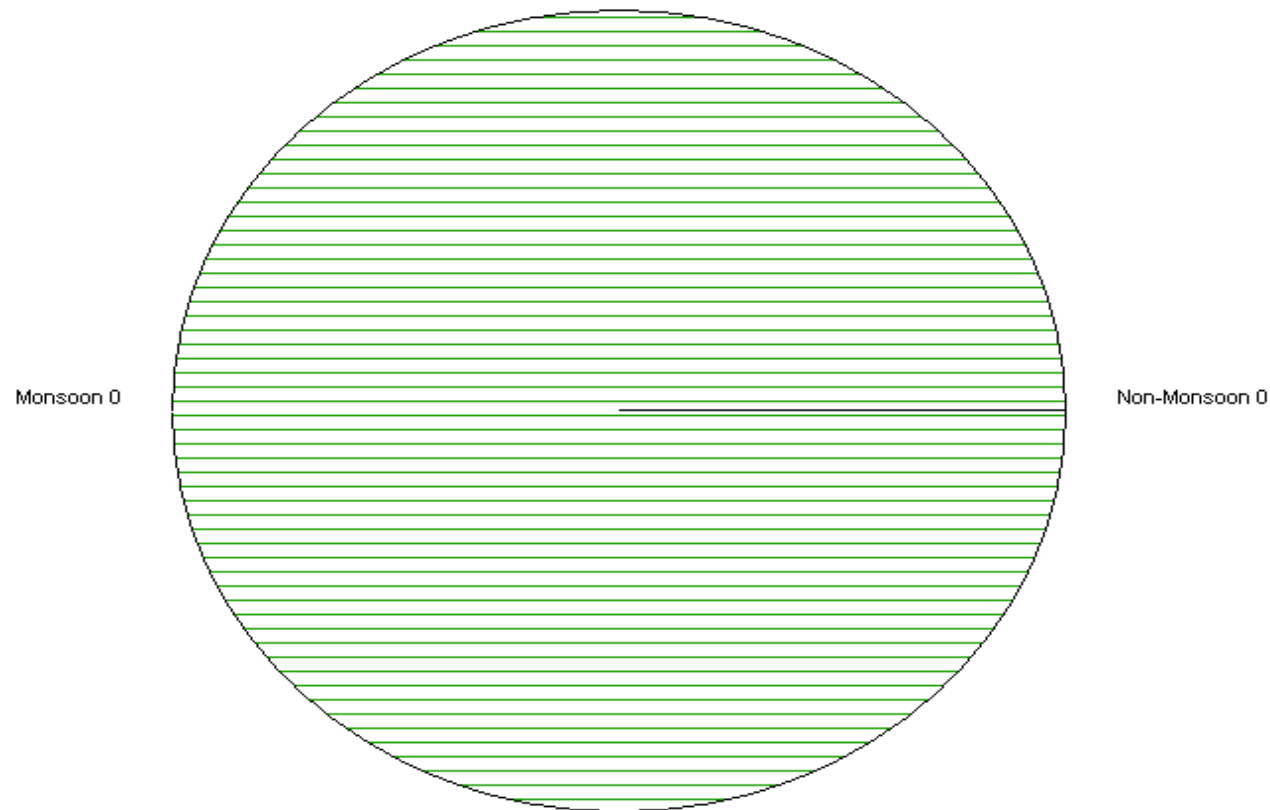
Seasonal Sediment Load for the Year: 2021-2022

Station Name : Gokak Falls (Seasonal) ( AKT00P9)

Local River : Ghataprabha

Division : CAUVERY DIVISION

Sub-Division : MKSD BAGALKOTE



## BED MATERIAL ANALYSIS DATA FOR THE YEAR 2021-22

|                     |       |              |           |
|---------------------|-------|--------------|-----------|
| SITE                | GOKAK | CODE         | : AKLDOC6 |
| MEASURING AUTHORITY | CDN   | WATER YEAR : | 2021-22   |

| Premonsoon Survey (22/05/2021) |                                               |       |                      |     |       |     |       |
|--------------------------------|-----------------------------------------------|-------|----------------------|-----|-------|-----|-------|
| Discharged Observed            | Discharge                                     | cumec | Water edge           | RB: | 133.5 | LB: | 37.5  |
| Area of section                | Observation not done due to lack of man power | sq.m  | Mean Velocity        |     |       |     | m/sec |
| Wetted Perimeter               |                                               | m     | Hydraulic Mean Depth |     |       |     | m     |

| Sl. No. | R.D. of sampling point in meters | R.L. of Dry Bed | R.L. of bed in meters | Mean diameter in mm | Remarks                         |
|---------|----------------------------------|-----------------|-----------------------|---------------------|---------------------------------|
| 1       | 50                               | -               | 538.310               | 0.45                | Av.mean                         |
| 2       | 100                              | -               | 538.19                | 2.18                | dia "m" 0.85                    |
| 3       | 110                              | -               | 538.29                | 0.34                |                                 |
| 4       | 120                              | -               | 538.41                | 0.42                | Silt factor                     |
| 5       |                                  |                 |                       |                     | "f" = 1.76 $\sqrt{m}$<br>= 1.62 |

**Note:** i. Discharge observation not done due to lack of man power.  
ii. River bed : Flowing water

| Monsoon Survey      |                                               |       |                      |     |     |  |       |
|---------------------|-----------------------------------------------|-------|----------------------|-----|-----|--|-------|
| Discharged Observed | Discharge                                     | cumec | Water edge           | RB: | LB: |  | m     |
| Area of section     | Observation not done due to lack of man power | sq.m  | Mean Velocity        |     | :   |  | m/sec |
| Wetted Perimeter    |                                               | m     | Hydraulic Mean Depth |     | :   |  | m     |

| Sl. No. | R.D. of sampling point in meters | R.L. of Dry Bed | R.L. of bed in meters | Mean diameter in mm | Remarks                                                                                     |
|---------|----------------------------------|-----------------|-----------------------|---------------------|---------------------------------------------------------------------------------------------|
| 1       |                                  |                 |                       |                     | <b>Samples not collected due to more depths, high velocity and non availability of boat</b> |
| 2       |                                  |                 |                       |                     |                                                                                             |
| 3       |                                  |                 |                       |                     |                                                                                             |
| 4       |                                  |                 |                       |                     |                                                                                             |
| 5       |                                  |                 |                       |                     |                                                                                             |

**Note:** i. Discharge observation was not done due to shortage of man power.  
ii. River bed : Flowing water

| Postmonsoon Survey (Date 11/11/2021) |        |       |                      |     |       |     |        |
|--------------------------------------|--------|-------|----------------------|-----|-------|-----|--------|
| Discharged Observed                  | 22.11  | cumec | Water edge           | RB: | 134.0 | LB: | 35.0   |
| Area of section                      | 57.812 | sq.m  | Mean Velocity        |     |       |     | 0.3825 |
| Wetted Perimeter                     | 99.985 | m     | Hydraulic Mean Depth |     |       |     | 0.597  |

| Sl. No. | R.D. of sampling point in meters | R.L. of Dry Bed | R.L. of bed in meters | Mean diameter in mm | Remarks                         |
|---------|----------------------------------|-----------------|-----------------------|---------------------|---------------------------------|
| 1       | 50                               | 537.80          | --                    | 0.47                | Av.mean                         |
| 2       | 100                              | 538.19          | --                    | 0.34                | dia "m" 0.38                    |
| 3       | 110                              | 538.15          | --                    | 0.32                |                                 |
| 4       | 120                              | 538.40          | --                    | 0.37                | Silt factor                     |
| 5       |                                  |                 |                       |                     | "f" = 1.76 $\sqrt{m}$<br>= 1.08 |

**Note:** i. Discharge observation done at station gauge line  
ii. River bed : Dry Bed

0.92195  
1.62264

0.61644  
1.08494

## HISTORY SHEET

|                          |                                 |                   |                    |
|--------------------------|---------------------------------|-------------------|--------------------|
|                          |                                 | <b>Water Year</b> | <b>: 2021-2022</b> |
| <b>Site</b>              | <b>: Chalachguda (Seasonal)</b> | <b>Code</b>       | <b>: AKS00H1</b>   |
| State                    | : Karnataka                     | District          | Bagalkot           |
| Basin                    | : Krishna                       | Independent River | : Krishna          |
| Tributary                | : Malaprabha                    | Sub Tributary     | : -                |
| Sub-Sub Tributary        | : -                             | Local River       | : Malaprabha       |
| Division                 | : CAUVERY DIVISION              | Sub-Division      | : MKSD BAGALKOTE   |
| Drainage Area            | : 9373 Sq. Km.                  | Bank              | : Left             |
| Latitude                 | : 15°52'43"                     | Longitude         | : 75°43'16"        |
| <b>Zero of Gauge (m)</b> | : 522.5 (m.s.l)                 | 01-06-1982        | - 31-05-2010       |
|                          | 522 (m.s.l)                     | 01-06-2010        |                    |
|                          | Opening Date                    | Closing Date      |                    |
| Gauge                    | : 01-06-1982                    |                   |                    |
| Discharge                | : 01-06-1982                    |                   |                    |
| Sediment                 | : 01-06-1982                    |                   |                    |
| Water Quality            | : 01-06-1982                    |                   |                    |

**Daily Observed Sediment Datasheet for period : 2021-2022**

**Station Name : Cholachguda (Seasonal) ( AKS00H1)**

**Local River : Malaprabha**

**Division : CAUVERY DIVISION**

**Sub-Division : MKSD BAGALKOTE**

| Day                   | Jun          |                                |               |             |              |                   | Jul          |                                |               |             |              |                   | Aug          |                                |               |             |              |                   |
|-----------------------|--------------|--------------------------------|---------------|-------------|--------------|-------------------|--------------|--------------------------------|---------------|-------------|--------------|-------------------|--------------|--------------------------------|---------------|-------------|--------------|-------------------|
|                       | Q<br>cumecs. | Coarse<br>g/l                  | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l                  | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l                  | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1                     | 122.4        | Sediment not observed at site. |               |             |              |                   | 41.96        | Sediment not observed at site. |               |             |              |                   | 57.62        | Sediment not observed at site. |               |             |              |                   |
| 2                     | 110.5        |                                |               |             |              |                   | 41.96        |                                |               |             |              |                   | 52.42        |                                |               |             |              |                   |
| 3                     | 104.8        |                                |               |             |              |                   | 41.48        |                                |               |             |              |                   | 50.92        |                                |               |             |              |                   |
| 4                     | 131.3        |                                |               |             |              |                   | 41.48        |                                |               |             |              |                   | 47.82        |                                |               |             |              |                   |
| 5                     | 329.8        |                                |               |             |              |                   | 49.43        |                                |               |             |              |                   | 48.80        |                                |               |             |              |                   |
| 6                     | 111.3        |                                |               |             |              |                   | 44.37        |                                |               |             |              |                   | 52.12        |                                |               |             |              |                   |
| 7                     | 45.86        |                                |               |             |              |                   | 50.48        |                                |               |             |              |                   | 47.67        |                                |               |             |              |                   |
| 8                     | 44.86        |                                |               |             |              |                   | 86.56        |                                |               |             |              |                   | 41.96        |                                |               |             |              |                   |
| 9                     | 44.37        |                                |               |             |              |                   | 98.49        |                                |               |             |              |                   | 52.54        |                                |               |             |              |                   |
| 10                    | 46.36        |                                |               |             |              |                   | 110.5        |                                |               |             |              |                   | 52.68        |                                |               |             |              |                   |
| 11                    | 41.96        |                                |               |             |              |                   | 61.10        |                                |               |             |              |                   | 51.10        |                                |               |             |              |                   |
| 12                    | 39.62        |                                |               |             |              |                   | 33.05        |                                |               |             |              |                   | 45.71        |                                |               |             |              |                   |
| 13                    | 39.62        |                                |               |             |              |                   | 23.59        |                                |               |             |              |                   | 31.62        |                                |               |             |              |                   |
| 14                    | 39.62        |                                |               |             |              |                   | 21.91        |                                |               |             |              |                   | 24.49        |                                |               |             |              |                   |
| 15                    | 39.62        |                                |               |             |              |                   | 22.57        |                                |               |             |              |                   | 44.37        |                                |               |             |              |                   |
| 16                    | 40.08        |                                |               |             |              |                   | 23.59        |                                |               |             |              |                   | 24.88        |                                |               |             |              |                   |
| 17                    | 41.01        |                                |               |             |              |                   | 22.57        |                                |               |             |              |                   | 31.91        |                                |               |             |              |                   |
| 18                    | 49.43        |                                |               |             |              |                   | 41.01        |                                |               |             |              |                   | 33.39        |                                |               |             |              |                   |
| 19                    | 80.93        |                                |               |             |              |                   | 116.3        |                                |               |             |              |                   | 33.95        |                                |               |             |              |                   |
| 20                    | 128.6        |                                |               |             |              |                   | 126.8        |                                |               |             |              |                   | 35.17        |                                |               |             |              |                   |
| 21                    | 146.3        |                                |               |             |              |                   | 43.39        |                                |               |             |              |                   | 32.94        |                                |               |             |              |                   |
| 22                    | 77.51        |                                |               |             |              |                   | 37.35        |                                |               |             |              |                   | 31.02        |                                |               |             |              |                   |
| 23                    | 49.43        |                                |               |             |              |                   | 29.68        |                                |               |             |              |                   | 24.65        |                                |               |             |              |                   |
| 24                    | 46.86        |                                |               |             |              |                   | 171.4        |                                |               |             |              |                   | 117.1        |                                |               |             |              |                   |
| 25                    | 44.86        |                                |               |             |              |                   | 406.7        |                                |               |             |              |                   | 34.14        |                                |               |             |              |                   |
| 26                    | 42.91        |                                |               |             |              |                   | 1142         |                                |               |             |              |                   | 31.02        |                                |               |             |              |                   |
| 27                    | 42.43        |                                |               |             |              |                   | 518.0        |                                |               |             |              |                   | 24.30        |                                |               |             |              |                   |
| 28                    | 42.43        |                                |               |             |              |                   | 673.1        |                                |               |             |              |                   | 24.00        |                                |               |             |              |                   |
| 29                    | 43.39        |                                |               |             |              |                   | 510.0        |                                |               |             |              |                   | 33.05        |                                |               |             |              |                   |
| 30                    | 42.43        |                                |               |             |              |                   | 165.1        |                                |               |             |              |                   | 31.16        |                                |               |             |              |                   |
| 31                    |              |                                |               |             |              |                   | 102.2        |                                |               |             |              |                   | 62.43        |                                |               |             |              |                   |
| <u>Ten Daily Mean</u> |              |                                |               |             |              |                   |              |                                |               |             |              |                   |              |                                |               |             |              |                   |
| Ten Daily I           | 109.2        |                                |               |             |              |                   | 60.67        |                                |               |             |              |                   | 50.46        |                                |               |             |              |                   |
| Ten Daily II          | 54.05        |                                |               |             |              |                   | 49.25        |                                |               |             |              |                   | 35.66        |                                |               |             |              |                   |
| Ten Daily III         | 57.86        |                                |               |             |              |                   | 345.4        |                                |               |             |              |                   | 40.53        |                                |               |             |              |                   |
| Monthly               |              |                                |               |             |              |                   |              |                                |               |             |              |                   |              |                                |               |             |              |                   |

Total

**Annual Sediment Load (Metric Tonnes) : 0**



**Daily Observed Sediment Datasheet for period : 2021-2022**

**Station Name : Cholachguda (Seasonal) ( AKS00H1)**

**Local River : Malaprabha**

**Division : CAUVERY DIVISION**

**Sub-Division : MKSD BAGALKOTE**

| Day                   | Sep          |                                |               |             |              |                   | Oct          |                                |               |             |              |                   | Nov          |                                |               |             |              |                   |
|-----------------------|--------------|--------------------------------|---------------|-------------|--------------|-------------------|--------------|--------------------------------|---------------|-------------|--------------|-------------------|--------------|--------------------------------|---------------|-------------|--------------|-------------------|
|                       | Q<br>cumecs. | Coarse<br>g/l                  | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l                  | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l                  | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1                     | 30.52        |                                |               |             |              |                   | 34.82        |                                |               |             |              |                   | 40.48        |                                |               |             |              |                   |
| 2                     | 36.61        |                                |               |             |              |                   | 39.84        |                                |               |             |              |                   | 31.57        |                                |               |             |              |                   |
| 3                     | 30.28        |                                |               |             |              |                   | 93.25        |                                |               |             |              |                   | 30.96        |                                |               |             |              |                   |
| 4                     | 25.62        |                                |               |             |              |                   | 42.21        |                                |               |             |              |                   | 27.98        |                                |               |             |              |                   |
| 5                     | 31.02        |                                |               |             |              |                   | 35.01        |                                |               |             |              |                   | 30.80        |                                |               |             |              |                   |
| 6                     | 46.52        |                                |               |             |              |                   | 40.02        |                                |               |             |              |                   | 30.60        |                                |               |             |              |                   |
| 7                     | 50.02        |                                |               |             |              |                   | 42.48        |                                |               |             |              |                   | 32.69        |                                |               |             |              |                   |
| 8                     | 53.07        |                                |               |             |              |                   | 42.83        |                                |               |             |              |                   | 31.20        |                                |               |             |              |                   |
| 9                     | 45.83        |                                |               |             |              |                   | 137.1        |                                |               |             |              |                   | 25.24        |                                |               |             |              |                   |
| 10                    | 39.62        |                                |               |             |              |                   | 151.3        |                                |               |             |              |                   | 24.50        |                                |               |             |              |                   |
| 11                    | 38.67        |                                |               |             |              |                   | 139.6        |                                |               |             |              |                   | 24.99        |                                |               |             |              |                   |
| 12                    | 67.77        |                                |               |             |              |                   | 102.5        |                                |               |             |              |                   | 24.11        |                                |               |             |              |                   |
| 13                    | 59.93        |                                |               |             |              |                   | 162.6        |                                |               |             |              |                   | 27.05        |                                |               |             |              |                   |
| 14                    | 71.96        |                                |               |             |              |                   | 138.3        |                                |               |             |              |                   | 32.25        |                                |               |             |              |                   |
| 15                    | 109.2        |                                |               |             |              |                   | 118.9        |                                |               |             |              |                   | 49.33        |                                |               |             |              |                   |
| 16                    | 113.8        |                                |               |             |              |                   | 110.1        |                                |               |             |              |                   | 49.88        |                                |               |             |              |                   |
| 17                    | 119.7        |                                |               |             |              |                   | 64.13        |                                |               |             |              |                   | 49.74        |                                |               |             |              |                   |
| 18                    | 113.3        | Sediment not observed at site. |               |             |              |                   | 37.97        | Sediment not observed at site. |               |             |              |                   | 62.56        | Sediment not observed at site. |               |             |              |                   |
| 19                    | 72.87        |                                |               |             |              |                   | 37.72        |                                |               |             |              |                   | 96.74        |                                |               |             |              |                   |
| 20                    | 42.91        |                                |               |             |              |                   | 45.60        |                                |               |             |              |                   | 76.59        |                                |               |             |              |                   |
| 21                    | 67.97        |                                |               |             |              |                   | 33.14        |                                |               |             |              |                   | 142.1        |                                |               |             |              |                   |
| 22                    | 58.19        |                                |               |             |              |                   | 42.84        |                                |               |             |              |                   | 233.1        |                                |               |             |              |                   |
| 23                    | 52.33        |                                |               |             |              |                   | 42.16        |                                |               |             |              |                   | 85.61        |                                |               |             |              |                   |
| 24                    | 40.54        |                                |               |             |              |                   | 41.56        |                                |               |             |              |                   | 63.09        |                                |               |             |              |                   |
| 25                    | 41.06        |                                |               |             |              |                   | 42.11        |                                |               |             |              |                   | 51.18        |                                |               |             |              |                   |
| 26                    | 35.17        |                                |               |             |              |                   | 44.57        |                                |               |             |              |                   | 51.05        |                                |               |             |              |                   |
| 27                    | 42.65        |                                |               |             |              |                   | 40.77        |                                |               |             |              |                   | 51.19        |                                |               |             |              |                   |
| 28                    | 43.39        |                                |               |             |              |                   | 40.46        |                                |               |             |              |                   | 50.79        |                                |               |             |              |                   |
| 29                    | 48.06        |                                |               |             |              |                   | 41.08        |                                |               |             |              |                   | 52.69        |                                |               |             |              |                   |
| 30                    | 40.49        |                                |               |             |              |                   | 39.94        |                                |               |             |              |                   | 46.38        |                                |               |             |              |                   |
| 31                    |              |                                |               |             |              |                   | 37.72        |                                |               |             |              |                   |              |                                |               |             |              |                   |
| <u>Ten Daily Mean</u> |              |                                |               |             |              |                   |              |                                |               |             |              |                   |              |                                |               |             |              |                   |
| Ten Daily I           | 38.91        |                                |               |             |              |                   | 65.88        |                                |               |             |              |                   | 30.60        |                                |               |             |              |                   |
| Ten Daily II          | 81.01        |                                |               |             |              |                   | 95.75        |                                |               |             |              |                   | 49.32        |                                |               |             |              |                   |
| Ten Daily III         | 46.99        |                                |               |             |              |                   | 40.58        |                                |               |             |              |                   | 82.72        |                                |               |             |              |                   |
| <u>Monthly</u>        |              |                                |               |             |              |                   |              |                                |               |             |              |                   |              |                                |               |             |              |                   |

Total

**Annual Sediment Load (Metric Tonnes) : 0**

**Daily Observed Sediment Datasheet for period : 2021-2022**

**Station Name : Cholachguda (Seasonal) ( AKS00H1)**

**Local River : Malaprabha**

**Division : CAUVERY DIVISION**

**Sub-Division : MKSD BAGALKOTE**

| Day                   | Dec          |                                |               |             |              |                   | Jan          |                                |               |             |              |                   | Feb          |                                |               |             |              |                   |
|-----------------------|--------------|--------------------------------|---------------|-------------|--------------|-------------------|--------------|--------------------------------|---------------|-------------|--------------|-------------------|--------------|--------------------------------|---------------|-------------|--------------|-------------------|
|                       | Q<br>cumecs. | Coarse<br>g/l                  | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l                  | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l                  | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1                     | 47.57        |                                |               |             |              |                   | 46.79        |                                |               |             |              |                   | 26.80        |                                |               |             |              |                   |
| 2                     | 50.49        |                                |               |             |              |                   | 42.84        |                                |               |             |              |                   | 26.84        |                                |               |             |              |                   |
| 3                     | 49.16        |                                |               |             |              |                   | 30.75        |                                |               |             |              |                   | 26.07        |                                |               |             |              |                   |
| 4                     | 70.44        |                                |               |             |              |                   | 29.48        |                                |               |             |              |                   | 26.05        |                                |               |             |              |                   |
| 5                     | 59.09        |                                |               |             |              |                   | 28.79        |                                |               |             |              |                   | 25.86        |                                |               |             |              |                   |
| 6                     | 49.20        |                                |               |             |              |                   | 30.93        |                                |               |             |              |                   | 25.72        |                                |               |             |              |                   |
| 7                     | 49.16        |                                |               |             |              |                   | 31.66        |                                |               |             |              |                   | 25.54        |                                |               |             |              |                   |
| 8                     | 47.14        |                                |               |             |              |                   | 33.73        |                                |               |             |              |                   | 25.08        |                                |               |             |              |                   |
| 9                     | 47.36        |                                |               |             |              |                   | 35.09        |                                |               |             |              |                   | 25.47        |                                |               |             |              |                   |
| 10                    | 41.57        |                                |               |             |              |                   | 36.32        |                                |               |             |              |                   | 25.21        |                                |               |             |              |                   |
| 11                    | 41.34        |                                |               |             |              |                   | 38.76        |                                |               |             |              |                   | 25.27        |                                |               |             |              |                   |
| 12                    | 40.32        |                                |               |             |              |                   | 36.77        |                                |               |             |              |                   | 24.89        |                                |               |             |              |                   |
| 13                    | 46.17        |                                |               |             |              |                   | 33.74        |                                |               |             |              |                   | 24.21        |                                |               |             |              |                   |
| 14                    | 50.13        |                                |               |             |              |                   | 36.16        |                                |               |             |              |                   | 24.86        |                                |               |             |              |                   |
| 15                    | 49.11        |                                |               |             |              |                   | 33.90        |                                |               |             |              |                   | 25.91        |                                |               |             |              |                   |
| 16                    | 46.15        |                                |               |             |              |                   | 35.62        |                                |               |             |              |                   | 25.41        |                                |               |             |              |                   |
| 17                    | 46.73        |                                |               |             |              |                   | 32.96        |                                |               |             |              |                   | 25.69        |                                |               |             |              |                   |
| 18                    | 49.30        | Sediment not observed at site. |               |             |              |                   | 30.85        | Sediment not observed at site. |               |             |              |                   | 25.63        | Sediment not observed at site. |               |             |              |                   |
| 19                    | 48.15        |                                |               |             |              |                   | 31.06        |                                |               |             |              |                   | 25.77        |                                |               |             |              |                   |
| 20                    | 42.17        |                                |               |             |              |                   | 32.21        |                                |               |             |              |                   | 25.72        |                                |               |             |              |                   |
| 21                    | 39.51        |                                |               |             |              |                   | 32.27        |                                |               |             |              |                   | 25.69        |                                |               |             |              |                   |
| 22                    | 39.06        |                                |               |             |              |                   | 32.07        |                                |               |             |              |                   | 21.00        |                                |               |             |              |                   |
| 23                    | 42.84        |                                |               |             |              |                   | 27.28        |                                |               |             |              |                   | 20.81        |                                |               |             |              |                   |
| 24                    | 41.57        |                                |               |             |              |                   | 32.05        |                                |               |             |              |                   | 25.12        |                                |               |             |              |                   |
| 25                    | 41.57        |                                |               |             |              |                   | 31.94        |                                |               |             |              |                   | 20.22        |                                |               |             |              |                   |
| 26                    | 40.94        |                                |               |             |              |                   | 27.81        |                                |               |             |              |                   | 20.14        |                                |               |             |              |                   |
| 27                    | 38.45        |                                |               |             |              |                   | 28.05        |                                |               |             |              |                   | 22.29        |                                |               |             |              |                   |
| 28                    | 50.24        |                                |               |             |              |                   | 27.69        |                                |               |             |              |                   | 20.07        |                                |               |             |              |                   |
| 29                    | 49.25        |                                |               |             |              |                   | 26.07        |                                |               |             |              |                   |              |                                |               |             |              |                   |
| 30                    | 49.39        |                                |               |             |              |                   | 27.28        |                                |               |             |              |                   |              |                                |               |             |              |                   |
| 31                    | 50.95        |                                |               |             |              |                   | 26.92        |                                |               |             |              |                   |              |                                |               |             |              |                   |
| <u>Ten Daily Mean</u> |              |                                |               |             |              |                   |              |                                |               |             |              |                   |              |                                |               |             |              |                   |
| Ten Daily I           | 51.12        |                                |               |             |              |                   | 34.64        |                                |               |             |              |                   | 25.86        |                                |               |             |              |                   |
| Ten Daily II          | 45.96        |                                |               |             |              |                   | 34.20        |                                |               |             |              |                   | 25.34        |                                |               |             |              |                   |
| Ten Daily III         | 43.98        |                                |               |             |              |                   | 29.04        |                                |               |             |              |                   | 21.92        |                                |               |             |              |                   |
| <u>Monthly</u>        |              |                                |               |             |              |                   |              |                                |               |             |              |                   |              |                                |               |             |              |                   |
| Total                 |              |                                |               |             |              |                   |              |                                |               |             |              |                   |              |                                |               |             |              |                   |

**Annual Sediment Load (Metric Tonnes) : 0**

**Daily Observed Sediment Datasheet for period : 2021-2022**

Station Name : Chalachguda (Seasonal) ( AKS00H1)

Local River : Malaprabha

Division : CAUVERY DIVISION

Sub-Division : MKSD BAGALKOTE

| Day            | Mar          |                               |               |             |              |                   | Apr          |               |               |             |              |                   | May          |               |               |             |              |                   |
|----------------|--------------|-------------------------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                | Q<br>cumecs. | Coarse<br>g/l                 | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1              | 21.36        | Sediment not observed at site |               |             |              |                   | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 2              | 24.20        |                               |               |             |              |                   | 0.000        | 0.000         | 0.000         | 0.000       | 0            | 0.000             | 0.000        | 0.000         | 0.000         | 0           |              |                   |
| 3              | 24.20        |                               |               |             |              |                   | 0.000        | 0.000         | 0.000         | 0.000       | 0            | 0.000             | 0.000        | 0.000         | 0.000         | 0           |              |                   |
| 4              | 24.03        |                               |               |             |              |                   | 0.000        | 0.000         | 0.000         | 0.000       | 0            | 0.000             | 0.000        | 0.000         | 0.000         | 0           |              |                   |
| 5              | 23.74        |                               |               |             |              |                   | 0.000        | 0.000         | 0.000         | 0.000       | 0            | 0.000             | 0.000        | 0.000         | 0.000         | 0           |              |                   |
| 6              | 21.36        |                               |               |             |              |                   | 0.000        | 0.000         | 0.000         | 0.000       | 0            | 0.000             | 0.000        | 0.000         | 0.000         | 0           |              |                   |
| 7              | 21.61        |                               |               |             |              |                   | 0.000        | 0.000         | 0.000         | 0.000       | 0            | 0.000             | 0.000        | 0.000         | 0.000         | 0           |              |                   |
| 8              | 21.67        |                               |               |             |              |                   | 0.000        | 0.000         | 0.000         | 0.000       | 0            | 0.000             | 0.000        | 0.000         | 0.000         | 0           |              |                   |
| 9              | 21.22        |                               |               |             |              |                   | 0.000        | 0.000         | 0.000         | 0.000       | 0            | 0.000             | 0.000        | 0.000         | 0.000         | 0           |              |                   |
| 10             | 21.76        |                               |               |             |              |                   | 0.000        | 0.000         | 0.000         | 0.000       | 0            | 0.000             | 0.000        | 0.000         | 0.000         | 0           |              |                   |
| 11             | 21.79        |                               |               |             |              |                   | 0.000        | 0.000         | 0.000         | 0.000       | 0            | 0.000             | 0.000        | 0.000         | 0.000         | 0           |              |                   |
| 12             | 21.89        |                               |               |             |              |                   | 0.000        | 0.000         | 0.000         | 0.000       | 0            | 0.000             | 0.000        | 0.000         | 0.000         | 0           |              |                   |
| 13             | 26.24        |                               |               |             |              |                   | 0.000        | 0.000         | 0.000         | 0.000       | 0            | 0.000             | 0.000        | 0.000         | 0.000         | 0           |              |                   |
| 14             | 22.17        |                               |               |             |              |                   | 0.000        | 0.000         | 0.000         | 0.000       | 0            | 0.000             | 0.000        | 0.000         | 0.000         | 0           |              |                   |
| 15             | 21.62        |                               |               |             |              |                   | 0.000        | 0.000         | 0.000         | 0.000       | 0            | 0.000             | 0.000        | 0.000         | 0.000         | 0           |              |                   |
| 16             | 0.000        | 0.000                         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0            |                   |
| 17             | 0.000        | 0.000                         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0            |                   |
| 18             | 0.000        | 0.000                         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0            |                   |
| 19             | 0.000        | 0.000                         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0            |                   |
| 20             | 0.000        | 0.000                         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0            |                   |
| 21             | 0.000        | 0.000                         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0            |                   |
| 22             | 0.000        | 0.000                         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0            |                   |
| 23             | 0.000        | 0.000                         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0            |                   |
| 24             | 0.000        | 0.000                         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0            |                   |
| 25             | 0.000        | 0.000                         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0            |                   |
| 26             | 0.000        | 0.000                         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0            |                   |
| 27             | 0.000        | 0.000                         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0            |                   |
| 28             | 0.000        | 0.000                         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0            |                   |
| 29             | 0.000        | 0.000                         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0            |                   |
| 30             | 0.000        | 0.000                         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0            |                   |
| 31             | 0.000        | 0.000                         | 0.000         | 0.000       | 0.000        | 0                 |              |               |               |             |              |                   | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Ten Daily Mean |              |                               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Ten Daily I    | 22.51        |                               |               |             |              |                   | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Ten Daily II   | 11.37        | 0.000                         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Ten Daily III  | 0.000        | 0.000                         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Monthly        |              |                               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Total          |              |                               |               |             |              | 0                 |              |               |               |             |              | 0                 |              |               |               |             |              |                   |

Annual Sediment Load (Metric Tonnes) : 0

**Annual Sediment Load for period : 1982-2022**

**Station Name : Chalachguda (Seasonal) ( AKS00H1)**

**Local River : Malaprabha**

**Division : Upper Krishna Divn, Pune**

**Sub-Division : Middle Krishna SD 1, Bagalkot**

| Year      | Monsoon<br>(M.T.) | Non-Monsoon<br>(M.T.) | Annual Load<br>(M.T.) | Annual Run Off<br>(MCM) |
|-----------|-------------------|-----------------------|-----------------------|-------------------------|
| 1982-1983 | 8864424           | 14826                 | 8879250               | 1496                    |
| 1983-1984 | 3602214           | 17541                 | 3619755               | 1262                    |
| 1984-1985 | 2816737           | 79239                 | 2895976               | 713                     |
| 1985-1986 | 734244            | 367112                | 1101355               | 333                     |
| 1986-1987 | 5752582           | 12484                 | 5765066               | 730                     |
| 1987-1988 | 5951792           | 121074                | 6072866               | 676                     |
| 1988-1989 | 4531409           | 3143                  | 4534552               | 885                     |
| 1989-1990 | 6087029           | 177518                | 6264547               | 663                     |
| 1990-1991 | 421935            | 6630                  | 428565                | 304                     |
| 1991-1992 | 11235453          | 14490                 | 11249943              | 1598                    |
| 1992-1993 | 6459501           | 37982                 | 6497483               | 1056                    |
| 1993-1994 | 5439307           | 44619                 | 5483925               | 1005                    |
| 1994-1995 | 3212814           | 31762                 | 3244576               | 1313                    |
| 1995-1996 | 4902794           | 30998                 | 4933792               | 868                     |
| 1996-1997 | 9621946           | 25201                 | 9647147               | 1293                    |
| 1997-1998 | 5212917           | 58030                 | 5270947               | 986                     |
| 1998-1999 | 4810172           | 12897                 | 4823069               | 1067                    |
| 1999-2000 | 2502187           | 36397                 | 2538584               | 893                     |
| 2000-2001 | 3838012           | 19988                 | 3858000               | 1006                    |
| 2001-2002 | 1812129           | 5068                  | 1817197               | 490                     |
| 2002-2003 | 1736478           | 5922                  | 1742401               | 365                     |
| 2003-2004 | 1187459           | 167537                | 1354996               | 305                     |
| 2004-2005 | 3240889           | 16816                 | 3257705               | 645                     |
| 2005-2006 | 2916508           | 53702                 | 2970210               | 1022                    |
| 2006-2007 | 2578077           | 0                     | 2578077               | 784                     |
| 2007-2008 | 8460290           | 0                     | 8460290               | 1596                    |
| 2008-2009 | 608158            | 0                     | 608158                | 352                     |
| 2009-2010 | 3549294           | 0                     | 3549294               | 1347                    |
| 2010-2011 | 938726            | 0                     | 938726                | 533                     |
| 2011-2012 | 178152            | 0                     | 178152                | 392                     |
| 2012-2013 | 76085             | 0                     | 76085                 | 64                      |
| 2013-2014 | 612868            | 0                     | 612868                | 287                     |
| 2014-2015 | 51533             | 0                     | 51533                 | 305                     |
| 2015-2016 | 40870             | 0                     | 40870                 | 266                     |
| 2016-2017 | 293219            | 0                     | 293219                | 55                      |
| 2017-2018 | 2056509           | 0                     | 2056509               | 696                     |
| 2018-2019 | 127659            | 0                     | 127659                | 150                     |
| 2019-2020 | 26884             | 863                   | 27746                 | 2480                    |
| 2020-2021 | 0                 | 0                     | 0                     | 2153                    |
| 2021-2022 | 0                 | 0                     | 0                     | 1491                    |

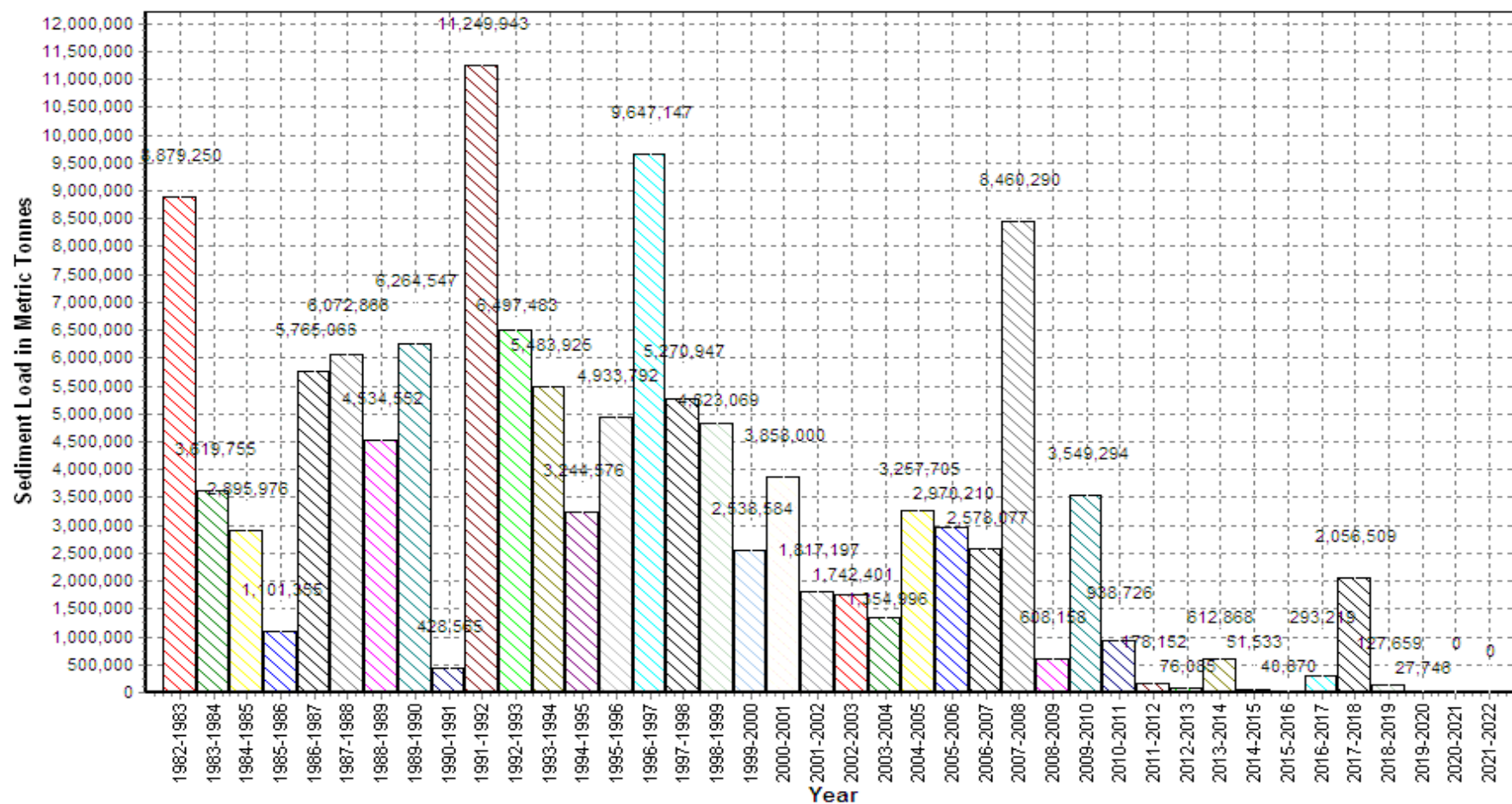
# Annual Sediment Load for the period: 1982-2022

Station Name : Chalachguda (Seasonal) ( AKS00H1)

Local River : Malaprabha

Division : Upper Krishna Divn, Pune

Sub-Division : Middle Krishna SD 1, Bagalkot



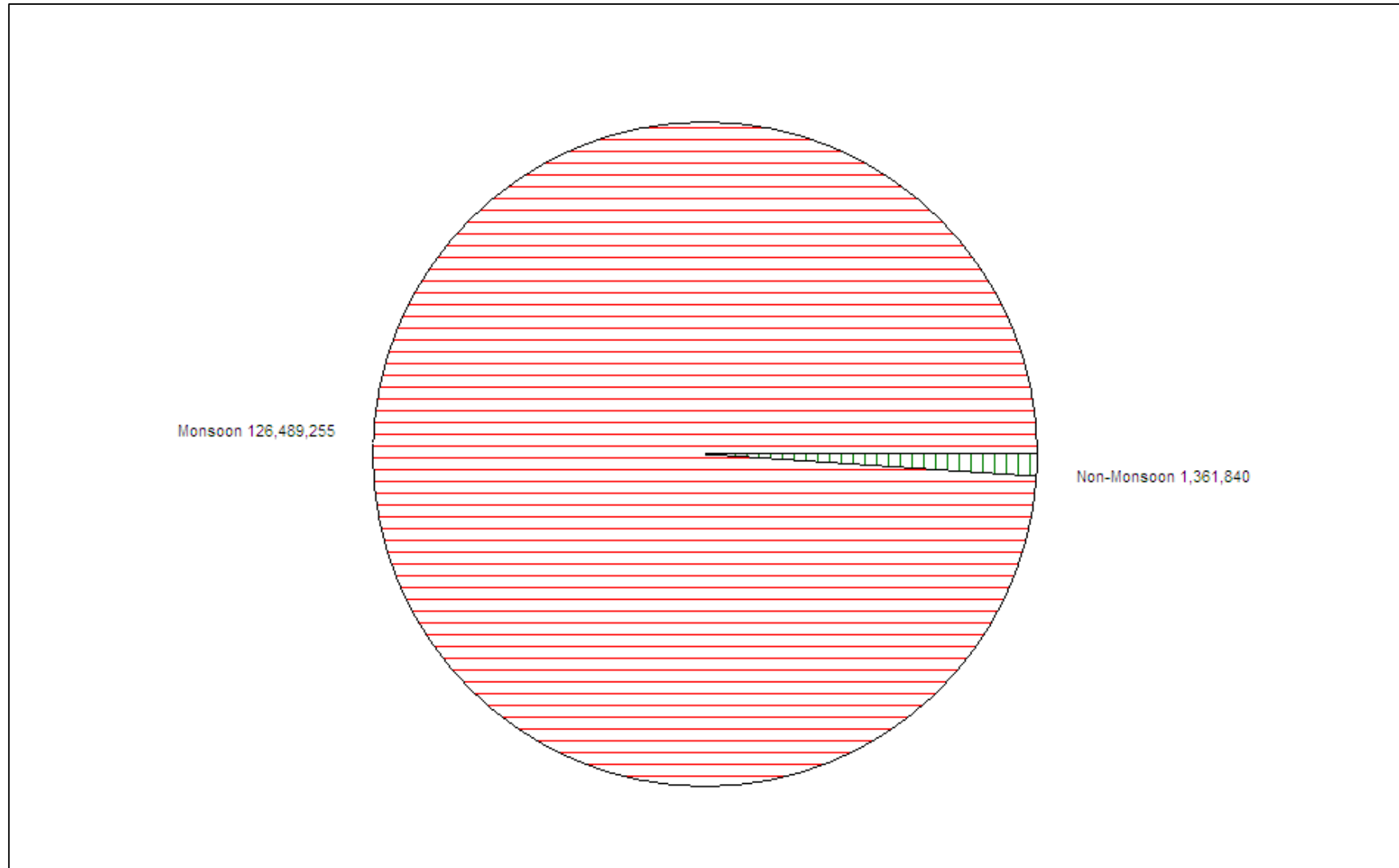
Seasonal Sediment Load for the period : 1982-2021

Station Name : Chalachguda (Seasonal) ( AKS00H1)

Local River : Malaprabha

Division : Upper Krishna Divn, Pune

Sub-Division : Middle Krishna SD 1, Bagalkot



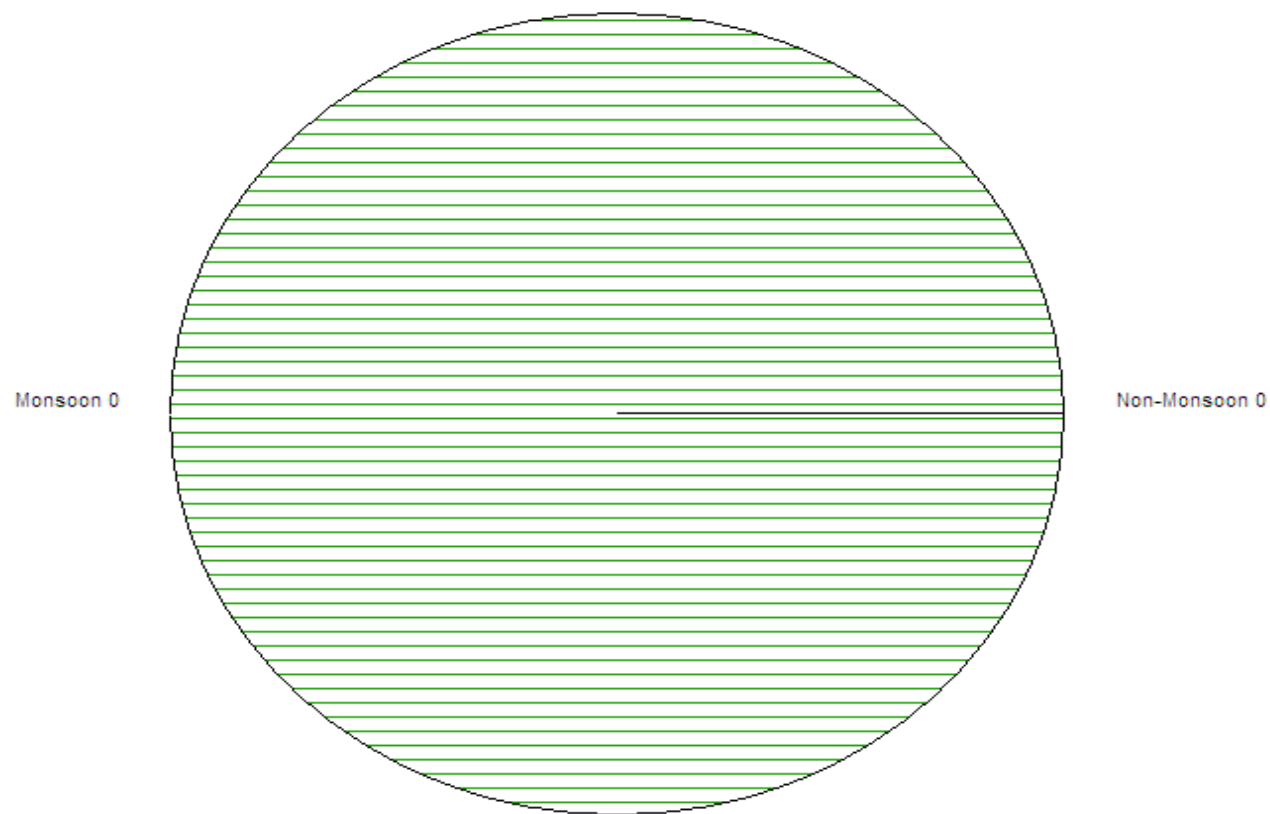
Seasonal Sediment Load for the Year: 2021-2022

Station Name : Chalachguda (Seasonal) ( AKS00H1)

Local River : Malaprabha

Division : Upper Krishna Divn, Pune

Sub-Division : Middle Krishna SD 1, Bagalkot



## BED MATERIAL ANALYSIS DATA FOR THE YEAR 2021-22

**SITE  
MEASURING  
AUTHORITY**

**CHOLACHA GUDDA  
CDN**

**CODE                    AKLC0B8**

**WATER YEAR : 2021-22**

### Premonsoon Survey (30/05/2021)

|                     |                                                                            |       |                      |     |         |           |
|---------------------|----------------------------------------------------------------------------|-------|----------------------|-----|---------|-----------|
| Discharged Observed | <b>Discharge observation was not done due to lack of man power at site</b> | cumec | Water edge           | RB: | 335 LB: | 278 m     |
| Area of section     |                                                                            | sq.m  | Mean Velocity        |     |         | --- m/sec |
| Wetted Perimeter    |                                                                            | m     | Hydraulic Mean Depth |     |         | --- m     |

| Sl. No. | R.D. of sampling point in meters | R.L. of Dry Bed | R.L. of bed in meters | Mean diameter in mm | Remarks                         |                     |
|---------|----------------------------------|-----------------|-----------------------|---------------------|---------------------------------|---------------------|
| 1       | 260                              | 531.475         | --                    | 2.20                | Av.mean                         |                     |
| 2       | 290                              | ---             | 523.45                | 2.62                | dia "m" 2.86                    |                     |
| 3       | 310                              | ---             | 523.39                | 2.01                |                                 |                     |
| 4       | 330                              | ---             | 525.36                | 3.40                | Silt factor                     |                     |
| 5       | 370                              | 530.67          | --                    | 4.08                | "f" = 1.76 $\sqrt{m}$<br>= 2.98 | 1.691153<br>2.97643 |

- Note:**
- i. Discharge observation was not done due to lack of man power at site
  - ii. River bed : Flowing water

### Monsoon Survey

|                     |  |       |                      |     |     |       |
|---------------------|--|-------|----------------------|-----|-----|-------|
| Discharged Observed |  | cumec | Water edge           | RB: | LB: | m     |
| Area of section     |  | sq.m  | Mean Velocity        |     | :   | m/sec |
| Wetted Perimeter    |  | m     | Hydraulic Mean Depth |     | :   | m     |

| Sl. No. | R.D. of sampling point in meters | R.L. of Dry Bed | R.L. of bed in meters | Mean diameter in mm | Remarks |
|---------|----------------------------------|-----------------|-----------------------|---------------------|---------|
| 1       |                                  |                 |                       |                     |         |
| 2       |                                  |                 |                       |                     |         |
| 3       |                                  |                 |                       |                     |         |
| 4       |                                  |                 |                       |                     |         |
| 5       |                                  |                 |                       |                     |         |

**samples not collected due to more depths and non availability of boat**

- Note:**
- i. Discharge observation was at station guage line
  - ii. River bed : Flowing water

### Postmonsoon Survey ( Date30/12/2021)

|                     |               |       |                      |     |         |             |
|---------------------|---------------|-------|----------------------|-----|---------|-------------|
| Discharged Observed | <b>44.353</b> | cumec | Water edge           | RB: | 334 LB: | 285.0 m     |
| Area of section     | <b>50.882</b> | sq.m  | Mean Velocity        |     |         | 0.871 m/sec |
| Wetted Perimeter    | <b>49.298</b> | m     | Hydraulic Mean Depth |     |         | 1.156 m     |

| Sl. No. | R.D. of sampling point in meters | R.L. of Dry Bed | R.L. of bed in meters | Mean diameter in mm | Remarks                         |                     |
|---------|----------------------------------|-----------------|-----------------------|---------------------|---------------------------------|---------------------|
| 1       | 260                              | ---             | 531.490               | 3.06                | Av.mean                         |                     |
| 2       | 290                              | ---             | 523.835               | 4.59                | dia "m" 3.62                    |                     |
| 3       | 310                              | ---             | 523.385               | 3.08                |                                 |                     |
| 4       | 330                              | ---             | 523.785               | 3.67                | Silt factor                     |                     |
| 5       | 370                              | ---             | 530.595               | 3.69                | "f" = 1.76 $\sqrt{m}$<br>= 3.34 | 1.90263<br>3.348628 |

- Note:**
- i. Discharge observation was at station guage line
  - ii. River bed : Flowing water



## HISTORY SHEET

|                          |                            |                   |                            |
|--------------------------|----------------------------|-------------------|----------------------------|
|                          |                            | <b>Water Year</b> | <b>: 2021-2022</b>         |
| <b>Site</b>              | <b>: Takli</b>             | <b>Code</b>       | <b>: AKP00K4</b>           |
| State                    | : Maharashtra              | District          | Sholapur                   |
| Basin                    | : Krishna                  | Independent River | : Krishna                  |
| Tributary                | : Bhima                    | Sub Tributary     | : -                        |
| Sub-Sub Tributary        | : -                        | Local River       | : Bhima                    |
| Division                 | : Upper Krishna Divn, Pune | Sub-Division      | : Lower Bhima SD, Sholapur |
| Drainage Area            | : 33916 Sq. Km.            | Bank              | : Left                     |
| Latitude                 | : 17°24'51"                | Longitude         | : 75°50'52"                |
| <b>Zero of Gauge (m)</b> | : 410.778 (m.s.l)          | 20-07-1963        | - 24-06-1969               |
|                          | : 409.278 (m.s.l)          | 25-06-1969        | - 31-05-2011               |
|                          | : 408 (m.s.l)              | 01-06-2011        |                            |
|                          | Opening Date               | Closing Date      |                            |
| Gauge                    | : 14-07-1965               |                   |                            |
| Discharge                | : 10-08-1965               |                   |                            |
| Sediment                 | : 01-12-1966               |                   |                            |
| Water Quality            | : 01-09-1972               |                   |                            |

**Daily Observed Sediment Datasheet for period : 2021-2022**

Station Name : Takli ( AKP00K4)

Local River : Bhima

Division : Upper Krishna Divn, Pune

Sub-Division : Lower Bhima SD, Sholapur

| Day                   | Jun          |               |               |             |              |                   | Jul          |               |               |             |              |                   | Aug          |               |               |             |              |                   |
|-----------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                       | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 190.7        | 0.000         | 0.000         | 0.007       | 0.007        | 107               |
| 2                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 164.1        | 0.000         | 0.000         | 0.008       | 0.008        | 111               |
| 3                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 156.5        | 0.000         | 0.000         | 0.006       | 0.006        | 76                |
| 4                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 153.1        | 0.000         | 0.000         | 0.002       | 0.002        | 25                |
| 5                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 108.9        | 0.000         | 0.000         | 0.011       | 0.011        | 107               |
| 6                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 80.47        | 0.000         | 0.000         | 0.006       | 0.006        | 40                |
| 7                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 86.25        | 0.000         | 0.000         | 0.010       | 0.010        | 77                |
| 8                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 149.4        | 0.000         | 0.000         | 0.006       | 0.006        | 72                |
| 9                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 102.6        | 0.000         | 0.000         | 0.002       | 0.002        | 19                |
| 10                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 72.26        | 0.000         | 0.000         | 0.021       | 0.021        | 128               |
| 11                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 88.59        | 0.000         | 0.000         | 0.017       | 0.017        | 127               |
| 12                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 87.87        | 0.000         | 0.000         | 0.026       | 0.026        | 198               |
| 13                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 14                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 15                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 16                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 17                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 18                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 19                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 20                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 21                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 22                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 23                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 24                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 25                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 26                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 27                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 318.9        | 0.000         | 0.000         | 0.016       | 0.016        | 444               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 28                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 233.5        | 0.000         | 0.000         | 0.020       | 0.020        | 402               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 29                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 347.1        | 0.000         | 0.000         | 0.020       | 0.020        | 609               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 30                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 218.9        | 0.000         | 0.000         | 0.016       | 0.016        | 297               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 31                    |              |               |               |             |              |                   | 262.2        | 0.000         | 0.000         | 0.017       | 0.017        | 374               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| <b>Ten Daily Mean</b> |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| <b>Ten Daily I</b>    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 126.4        | 0.000         | 0.000         | 0.008       | 0.008        | 76                |
| <b>Ten Daily II</b>   | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 17.65        | 0.000         | 0.000         | 0.021       | 0.021        | 163               |
| <b>Ten Daily III</b>  | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 125.5        | 0.000         | 0.000         | 0.018       | 0.018        | 425               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0.000             |
| <b>Monthly</b>        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| <b>Total</b>          |              |               |               |             |              | 0                 |              |               |               |             |              | 2125              |              |               |               |             |              | 1086              |

Annual Sediment Load (Metric Tonnes) : 12817

**Daily Observed Sediment Datasheet for period : 2021-2022**

Station Name : Takli ( AKP00K4)

Local River : Bhima

Division : Upper Krishna Divn, Pune

Sub-Division : Lower Bhima SD, Sholapur

| Day                   | Sep          |               |               |             |              |                   | Oct          |               |               |             |              |                   | Nov          |               |               |             |              |                   |
|-----------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                       | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 184.1        | 0.000         | 0.000         | 0.004       | 0.004        | 65                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 2                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 176.2        | 0.000         | 0.000         | 0.006       | 0.006        | 94                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 3                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 172.7        | 0.000         | 0.000         | 0.006       | 0.006        | 91                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 4                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 226.7        | 0.000         | 0.000         | 0.008       | 0.008        | 161               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 5                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 247.7        | 0.000         | 0.000         | 0.002       | 0.002        | 45                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 6                     | 102.5        | 0.000         | 0.000         | 0.002       | 0.002        | 19                | 232.6        | 0.000         | 0.000         | 0.002       | 0.002        | 32                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 7                     | 103.7        | 0.000         | 0.000         | 0.003       | 0.003        | 25                | 310.8        | 0.000         | 0.000         | 0.007       | 0.007        | 177               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 8                     | 107.2        | 0.000         | 0.000         | 0.003       | 0.003        | 29                | 388.4        | 0.000         | 0.000         | 0.016       | 0.016        | 530               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 9                     | 124.2        | 0.000         | 0.000         | 0.001       | 0.001        | 13                | 321.2        | 0.000         | 0.000         | 0.015       | 0.015        | 427               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 10                    | 118.2        | 0.000         | 0.000         | 0.005       | 0.005        | 49                | 318.3        | 0.000         | 0.000         | 0.009       | 0.009        | 248               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 11                    | 98.01        | 0.000         | 0.000         | 0.002       | 0.002        | 18                | 557.4        | 0.000         | 0.000         | 0.018       | 0.018        | 872               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 12                    | 101.7        | 0.000         | 0.000         | 0.004       | 0.004        | 38                | 875.3        | 0.000         | 0.000         | 0.016       | 0.016        | 1233              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 13                    | 87.86        | 0.000         | 0.000         | 0.004       | 0.004        | 27                | 742.7        | 0.000         | 0.000         | 0.021       | 0.021        | 1367              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 14                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 465.5        | 0.000         | 0.000         | 0.014       | 0.014        | 555               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 15                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 364.6        | 0.000         | 0.000         | 0.010       | 0.010        | 312               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 16                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 306.2        | 0.000         | 0.000         | 0.006       | 0.006        | 146               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 17                    | 336.1        | 0.000         | 0.000         | 0.026       | 0.026        | 755               | 233.0        | 0.000         | 0.000         | 0.007       | 0.007        | 149               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 18                    | 260.9        | 0.000         | 0.000         | 0.019       | 0.019        | 433               | 197.8        | 0.000         | 0.000         | 0.005       | 0.005        | 85                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 19                    | 151.4        | 0.000         | 0.000         | 0.006       | 0.006        | 73                | 275.6        | 0.000         | 0.000         | 0.008       | 0.008        | 195               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 20                    | 123.8        | 0.000         | 0.000         | 0.014       | 0.014        | 146               | 275.5        | 0.000         | 0.000         | 0.015       | 0.015        | 367               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 21                    | 180.1        | 0.000         | 0.000         | 0.006       | 0.006        | 98                | 196.9        | 0.000         | 0.000         | 0.017       | 0.017        | 294               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 22                    | 102.6        | 0.000         | 0.000         | 0.005       | 0.005        | 43                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 23                    | 106.2        | 0.000         | 0.000         | 0.006       | 0.006        | 57                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 24                    | 103.0        | 0.000         | 0.000         | 0.002       | 0.002        | 17                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 25                    | 128.7        | 0.000         | 0.000         | 0.001       | 0.001        | 13                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 26                    | 155.0        | 0.000         | 0.000         | 0.006       | 0.006        | 76                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 27                    | 240.9        | 0.000         | 0.000         | 0.008       | 0.008        | 158               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 28                    | 212.8        | 0.000         | 0.000         | 0.002       | 0.002        | 28                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 29                    | 188.3        | 0.000         | 0.000         | 0.002       | 0.002        | 24                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 30                    | 181.1        | 0.000         | 0.000         | 0.002       | 0.002        | 23                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 31                    |              |               |               |             |              |                   | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |              |               |               |             |              |                   |
| <b>Ten Daily Mean</b> |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| <b>Ten Daily I</b>    | 55.58        | 0.000         | 0.000         | 0.003       | 0.003        | 27                | 257.9        | 0.000         | 0.000         | 0.008       | 0.008        | 187               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| <b>Ten Daily II</b>   | 116.0        | 0.000         | 0.000         | 0.011       | 0.011        | 213               | 429.4        | 0.000         | 0.000         | 0.012       | 0.012        | 528               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| <b>Ten Daily III</b>  | 159.9        | 0.000         | 0.000         | 0.004       | 0.004        | 54                | 17.90        | 0.000         | 0.000         | 0.017       | 0.017        | 294               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| <b>Monthly</b>        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| <b>Total</b>          |              |               |               |             |              | 2162              |              |               |               |             |              | 7445              |              |               |               |             |              | 0                 |

**Daily Observed Sediment Datasheet for period : 2021-2022**

Station Name : Takli ( AKP00K4)

Local River : Bhima

Division : Upper Krishna Divn, Pune

Sub-Division : Lower Bhima SD, Sholapur

| Day                   | Dec          |               |               |             |              |                   | Jan          |               |               |             |              |                   | Feb          |               |               |             |              |                   |
|-----------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                       | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 2                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 3                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 4                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 5                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 6                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 7                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 8                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 9                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 10                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 11                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 12                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 13                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 14                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 15                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 16                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 17                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 18                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 19                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 20                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 21                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 22                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 23                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 24                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 25                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 26                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 27                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 28                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 29                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |              |               |               |             |              |                   |
| 30                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |              |               |               |             |              |                   |
| 31                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |              |               |               |             |              |                   |
| <u>Ten Daily Mean</u> |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Ten Daily I           | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Ten Daily II          | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Ten Daily III         | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| <u>Monthly</u>        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Total                 |              |               |               |             |              | 0                 |              |               |               |             |              | 0                 |              |               |               |             |              | 0                 |

**Daily Observed Sediment Datasheet for period : 2021-2022**

Station Name : Takli ( AKP00K4)

Local River : Bhima

Division : Upper Krishna Divn, Pune

Sub-Division : Lower Bhima SD, Sholapur

| Day            | Mar          |               |               |             |              |                   | Apr          |               |               |             |              |                   | May          |               |               |             |              |                   |
|----------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 2              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 3              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 4              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 5              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 6              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 7              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 8              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 9              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 10             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 11             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 12             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 13             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 14             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 15             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 16             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 17             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 18             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 19             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 20             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 21             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 22             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 23             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 24             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 25             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 26             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 27             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 28             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 29             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 30             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 31             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |              |               |               |             |              |                   | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Ten Daily Mean |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Ten Daily I    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Ten Daily II   | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Ten Daily III  | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Monthly        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Total          |              |               |               |             |              | 0                 |              |               |               |             |              | 0                 |              |               |               |             |              | 0                 |

Annual Sediment Load (Metric Tonnes) : 12817

# Annual Sediment Load for period : 1967-2022

Station Name : Takli ( AKP00K4)

Local River : Bhima

Division : Upper Krishna Divn, Pune

Sub-Division : Lower Bhima SD, Sholapur

| Year      | Monsoon<br>(M.T.) | Non-Monsoon<br>(M.T.) | Annual Load<br>(M.T.) | Annual Run Off<br>(MCM) |
|-----------|-------------------|-----------------------|-----------------------|-------------------------|
| 1967-1968 | 16924534          | 131168                | 17055701              | 9137                    |
| 1968-1969 | 7682878           | 1378                  | 7684257               | 5366                    |
| 1969-1970 | 18200961          | 2830                  | 18203791              | 10624                   |
| 1970-1971 | 7453520           | 166775                | 7620295               | 7269                    |
| 1971-1972 | 13434226          | 726                   | 13434953              | 8120                    |
| 1972-1973 | 1987658           | 658                   | 1988315               | 2736                    |
| 1973-1974 | 13222157          | 27063                 | 13249220              | 8828                    |
| 1974-1975 | 14724548          | 2261                  | 14726809              | 7628                    |
| 1975-1976 | 14096142          | 1211                  | 14097353              | 11154                   |
| 1976-1977 | 5681724           | 16096                 | 5697820               | 11252                   |
| 1977-1978 | 4264440           | 193820                | 4458260               | 5611                    |
| 1978-1979 | 4275643           | 3934                  | 4279576               | 6259                    |
| 1979-1980 | 13537319          | 17521                 | 13554841              | 9040                    |
| 1980-1981 | 2464360           | 891                   | 2465251               | 6723                    |
| 1981-1982 | 13531115          | 5766                  | 13536881              | 9214                    |
| 1982-1983 | 1384447           | 640                   | 1385087               | 2636                    |
| 1983-1984 | 5864398           | 803                   | 5865201               | 7496                    |
| 1984-1985 | 2004251           | 1350                  | 2005601               | 5418                    |
| 1985-1986 | 1782880           | 25                    | 1782905               | 2824                    |
| 1986-1987 | 1776048           | 174                   | 1776222               | 2850                    |
| 1987-1988 | 1748068           | 22885                 | 1770953               | 1118                    |
| 1988-1989 | 5371422           | 274                   | 5371696               | 7188                    |
| 1989-1990 | 2984196           | 831                   | 2985027               | 5102                    |
| 1990-1991 | 1984834           | 185                   | 1985019               | 8806                    |
| 1991-1992 | 823446            | 376                   | 823822                | 8129                    |
| 1992-1993 | 137942            | 35                    | 137977                | 2058                    |
| 1993-1994 | 454251            | 673                   | 454924                | 3291                    |
| 1994-1995 | 704088            | 0                     | 704088                | 11421                   |
| 1995-1996 | 861               | 0                     | 861                   | 222                     |
| 1996-1997 | 1099764           | 47                    | 1099811               | 4179                    |
| 1997-1998 | 224432            | 1009                  | 225442                | 4913                    |
| 1998-1999 | 1572895           | 1183                  | 1574078               | 9126                    |
| 1999-2000 | 339288            | 213                   | 339501                | 2315                    |
| 2000-2001 | 10524             | 823                   | 11348                 | 278                     |
| 2001-2002 | 228444            | 0                     | 228444                | 726                     |
| 2002-2003 | 799               | 10                    | 809                   | 49                      |
| 2003-2004 | 107               | 0                     | 107                   | 8                       |
| 2004-2005 | 460859            | 0                     | 460859                | 1481                    |
| 2005-2006 | 741286            | 0                     | 741286                | 8971                    |
| 2006-2007 | 194094            | 0                     | 194094                | 11671                   |
| 2007-2008 | 206289            | 0                     | 206289                | 5348                    |
| 2008-2009 | 60041             | 0                     | 60041                 | 2094                    |
| 2009-2010 | 462053            | 0                     | 462053                | 3490                    |
| 2010-2011 | 108455            | 0                     | 108455                | 1470                    |
| 2011-2012 | 330574            | 0                     | 330574                | 2056                    |
| 2012-2013 | 0                 | 0                     | 0                     | 0                       |
| 2013-2014 | 248454            | 0                     | 248454                | 2022                    |
| 2014-2015 | 67261             | 0                     | 67261                 | 1733                    |
| 2015-2016 | 0                 | 0                     | 0                     | 0                       |
| 2016-2017 | 27347             | 0                     | 27347                 | 814                     |
| 2017-2018 | 157073            | 0                     | 157073                | 2868                    |
| 2018-2019 | 7669              | 0                     | 7669                  | 626                     |
| 2019-2020 | 233379            | 0                     | 233379                | 7385                    |
| 2020-2021 | 336272            | 0                     | 336272                | 7450                    |
| 2021-2022 | 12817             | 0                     | 12817                 | 1141                    |

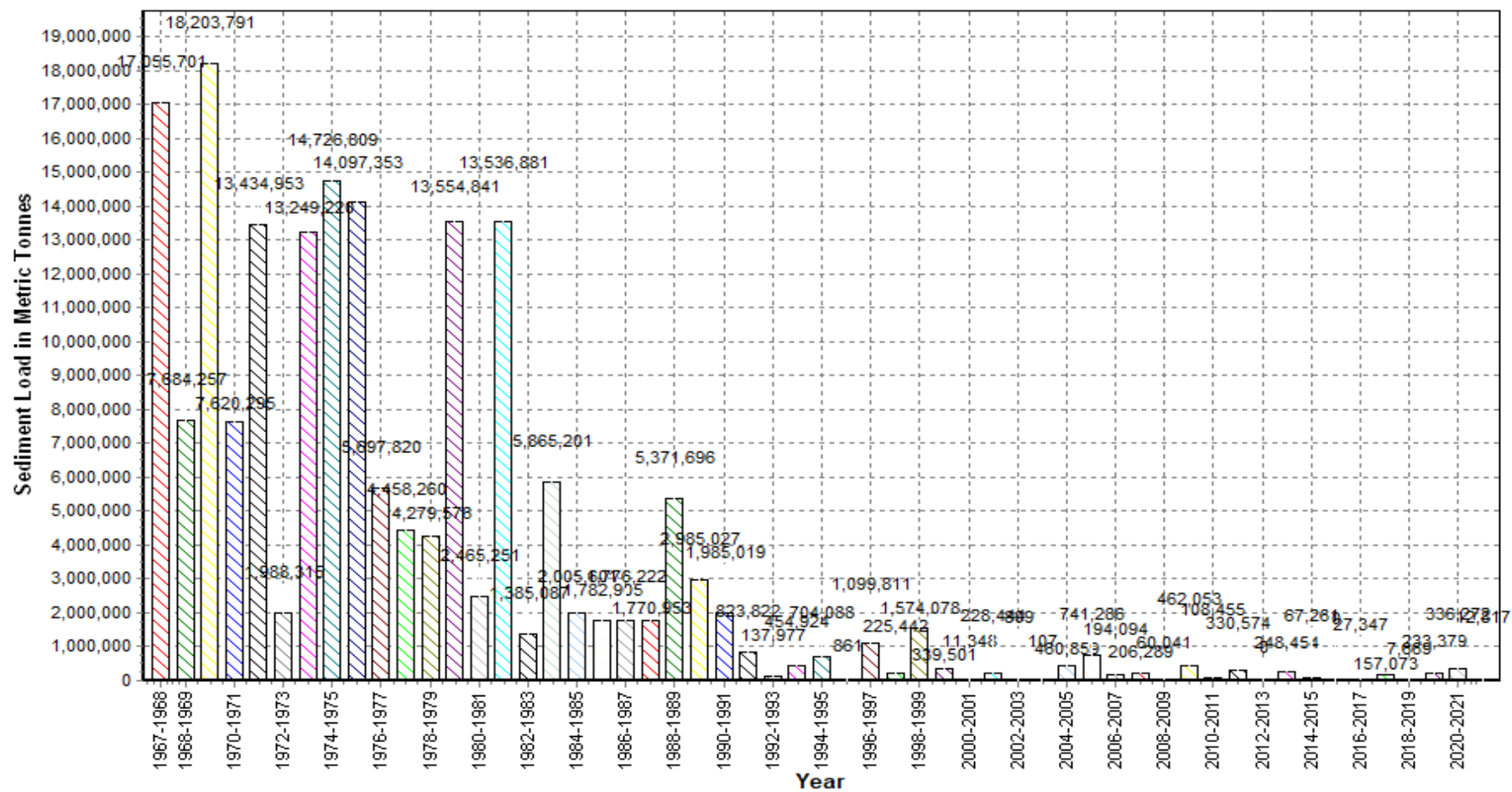
# Annual Sediment Load for the period: 1967-2022

Station Name : Takli ( AKP00K4)

Local River : Bhima

Division : Upper Krishna Divn, Pune

Sub-Division : Lower Bhima SD, Sholapur



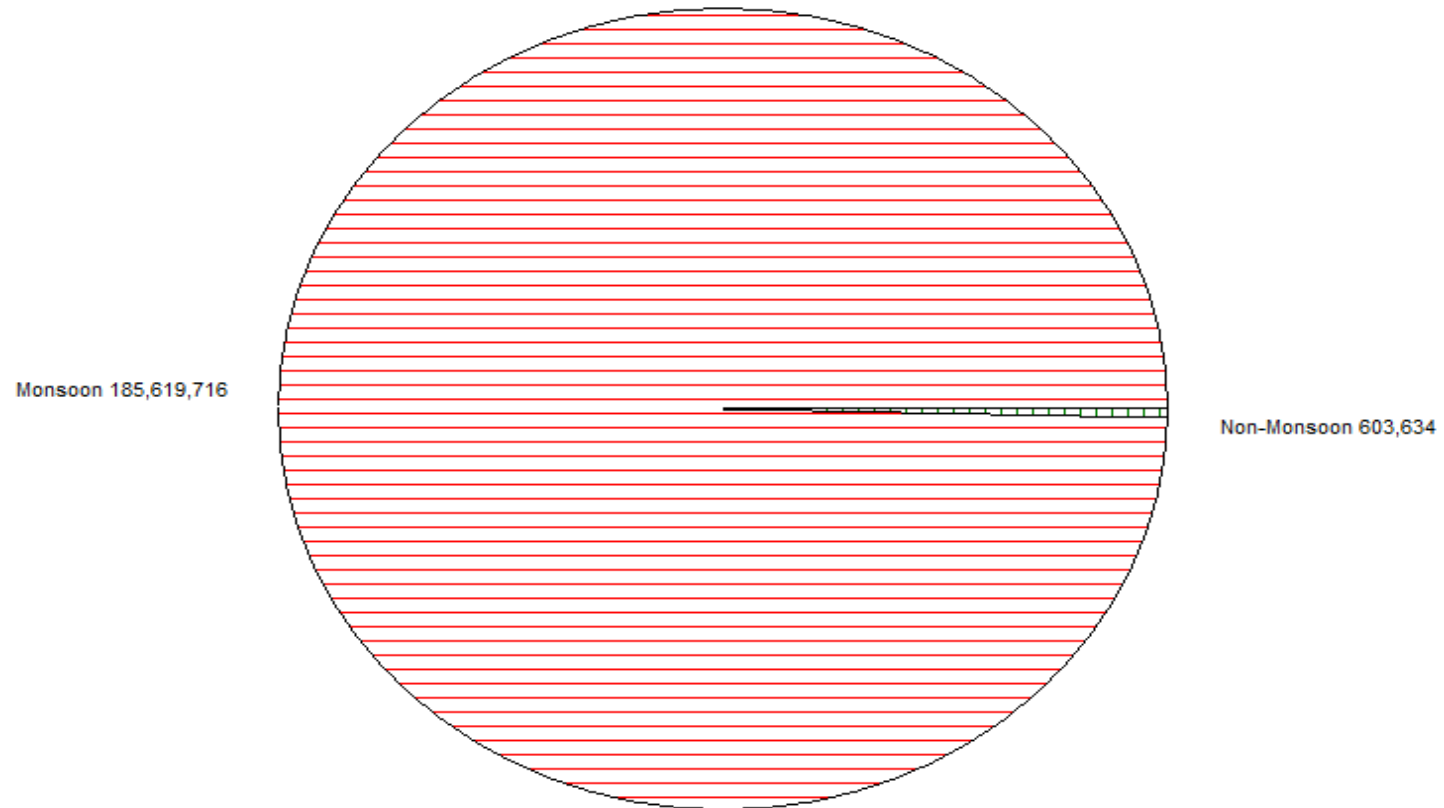
Seasonal Sediment Load for the period : 1967-2021

Station Name : Takli ( AKP00K4)

Local River : Bhima

Division : Upper Krishna Divn, Pune

Sub-Division : Lower Bhima SD, Sholapur





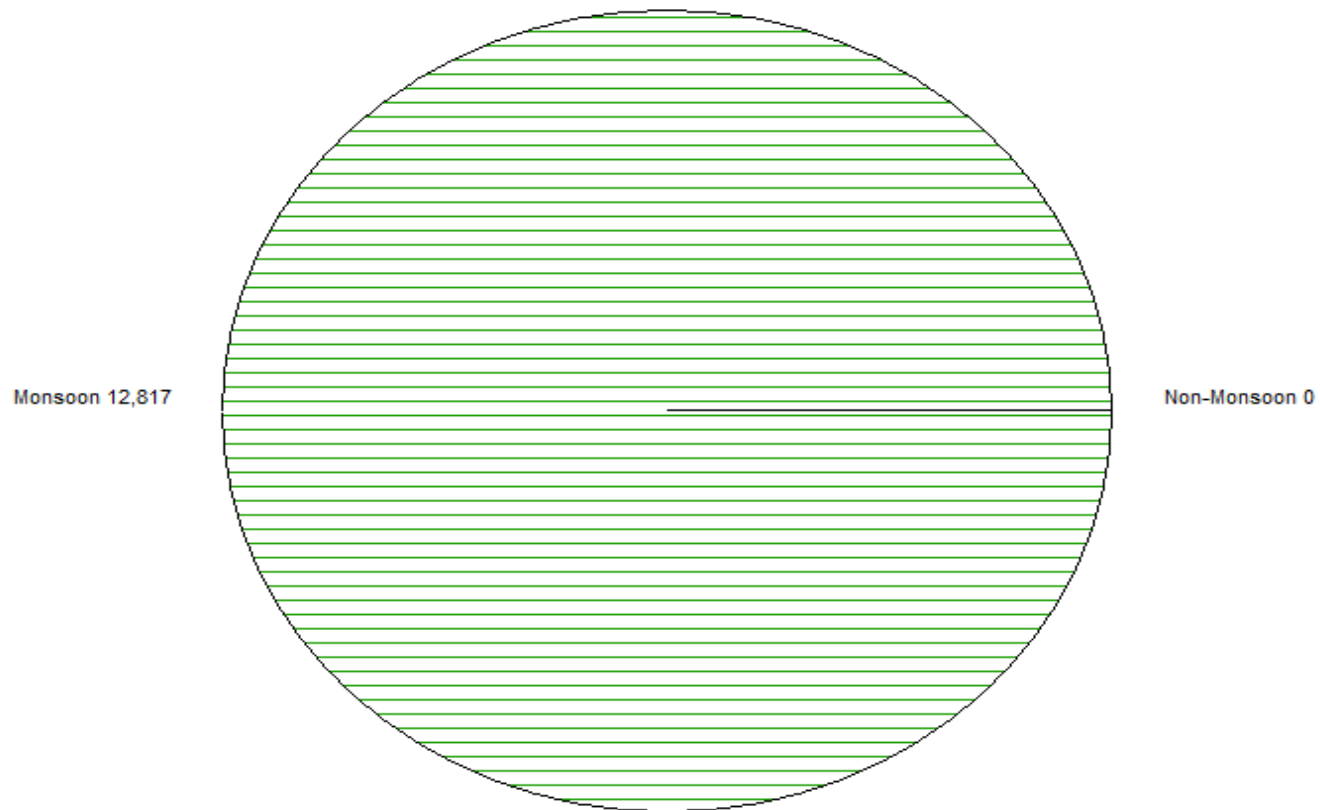
Seasonal Sediment Load for the Year: 2021-2022

Station Name : Takli ( AKP00K4)

Local River : Bhima

Division : Upper Krishna Divn, Pune

Sub-Division : Lower Bhima SD, Sholapur



**BED MATERIAL ANALYSIS DATA FOR THE YEAR 2021-22**

SITE : BHIMA AT TAKALI CODE : AKP00K4  
 MEASURING : UKDn CROSS SECTION : Station gauge line  
 AUTHORITY

**PreMonsoon Survey ( Date 27-05-2021 )**

Discharge Observed : 0 cumec Water edge RB : 661.00 m LB : 488.00 m  
 Area of section : 406.95 sq.m MeanVelocity : 0.0000 m/sec  
 Wetted perimeter : 174.21 m Hydraulic Mean Depth : 2.3360 m

| Sl. No | R.D. of sampling point in meters | R.L. of bed in meters | Mean diameter in mm | Remarks                                                     |
|--------|----------------------------------|-----------------------|---------------------|-------------------------------------------------------------|
| 1      | 520                              | 407.178               | 2.10                |                                                             |
| 2      | 560                              | 406.203               | 2.95                | Av.mean dia "m" = <b>2.29</b>                               |
| 3      | 600                              | 407.258               | 1.94                |                                                             |
| 4      | 630                              | 407.743               | 2.16                | Silt factor<br>"f" = 1.76 $\sqrt{\quad}$ m<br>= <b>2.66</b> |

**Note :** i. Discharge observation was at station gauge line.  
 ii. River bed : Stagnant water.

**Monsoon Survey ( Date 19-08-2021 )**

Discharge Observed : 0 cumec Water edge RB : 667.00 m LB : 482.00 m  
 Area of section : 837.74 sq.m MeanVelocity : 0.0000 m/sec  
 Wetted perimeter : 185.77 m Hydraulic Mean Depth : 4.5096 m

| Sl. No | R.D. of sampling point in meters | R.L. of bed in meters | Mean diameter in mm | Remarks                                                     |
|--------|----------------------------------|-----------------------|---------------------|-------------------------------------------------------------|
| 1      | 520                              | 407.178               | 2.64                |                                                             |
| 2      | 560                              | 406.203               | 3.22                | Av.mean dia "m" = <b>2.87</b>                               |
| 3      | 600                              | 407.258               | 2.72                |                                                             |
| 4      | 630                              | 407.743               | 2.88                | Silt factor<br>"f" = 1.76 $\sqrt{\quad}$ m<br>= <b>2.98</b> |

**Note :** i. Discharge observation was at station gauge line.  
 ii. River bed : Stagnant water.

**PostMonsoon Survey ( Date 11-12-2021 )**

Discharge Observed : 0 cumec Water edge RB : 667.00 m LB : 482.00 m  
 Area of section : 838.32 sq.m MeanVelocity : 0.0000 m/sec  
 Wetted perimeter : 185.78 m Hydraulic Mean Depth : 4.5125 m

| Sl. No | R.D. of sampling point in meters | R.L. of bed in meters | Mean diameter in mm | Remarks                                                     |
|--------|----------------------------------|-----------------------|---------------------|-------------------------------------------------------------|
| 1      | 520                              | 407.108               | 4.22                |                                                             |
| 2      | 560                              | 406.268               | 3.42                | Av.mean dia "m" = <b>3.12</b>                               |
| 3      | 600                              | 407.248               | 2.44                |                                                             |
| 4      | 630                              | 407.738               | 2.39                | Silt factor<br>"f" = 1.76 $\sqrt{\quad}$ m<br>= <b>3.11</b> |

**Note :** i. Discharge observation was at station gauge line.  
 ii. River bed : Stagnant water.

## HISTORY SHEET

|                          |                                  |                   |                                 |
|--------------------------|----------------------------------|-------------------|---------------------------------|
|                          |                                  | <b>Water Year</b> | <b>: 2021-2022</b>              |
| <b>Site</b>              | <b>: Huvinhedigi</b>             | <b>Code</b>       | <b>: AK000N2</b>                |
| State                    | : Karnataka                      | District          | Raichur                         |
| Basin                    | : Krishna                        | Independent River | : Krishna                       |
| Tributary                | : -                              | Sub Tributary     | : -                             |
| Sub-Sub Tributary        | : -                              | Local River       | : Krishna                       |
| Division                 | : Lower Krishna Divn., Hyderabad | Sub-Division      | : Middle Krishna SD 2 , Kurnool |
| Drainage Area            | : 55150 Sq. Km.                  | Bank              | : Right                         |
| Latitude                 | : 16°29'25"                      | Longitude         | : 76°55'23"                     |
| <b>Zero of Gauge (m)</b> | : 339.008 (m.s.l)                | 01-02-1976        | - 31-05-1981                    |
|                          | 342.24 (m.s.l)                   | 01-06-1981        | 31-12-1998                      |
|                          | 342.24 (m.s.l)                   | 01-01-1999        | - 31-12-2005                    |
|                          | 342.24 (m.s.l)                   | 01-01-2006        |                                 |
|                          | Opening Date                     | Closing Date      |                                 |
| Gauge                    | : 01-02-1976                     |                   |                                 |
| Discharge                | : 01-02-1976                     |                   |                                 |
| Sediment                 | : 01-06-1976                     |                   |                                 |
| Water Quality            | : 01-02-1976                     |                   |                                 |

**Note:- Sediment Observations Suspended 31-05-2006 and Restarted 12-06-2013.**

**Daily Observed Sediment Datasheet for period : 2021-2022**

Station Name : Huvinhedigi ( AK000N2)

Local River : Krishna

Division : Lower Krishna Divn., Hyderabad

Sub-Division : Middle Krishna SD 2 , Kurnool

| Day            | Jun          |               |               |             |              |                   | Jul          |               |               |             |              |                   | Aug          |               |               |             |              |                   |
|----------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1              | 155.3        | 0.000         | 0.000         | 0.043       | 0.043        | 584               | 95.53        | 0.000         | 0.000         | 0.080       | 0.080        | 656               | 8764         | 0.000         | 0.000         | 0.052       | 0.052        | 39178             |
| 2              | 118.5        | 0.000         | 0.000         | 0.040       | 0.040        | 412               | 42.27        | 0.000         | 0.000         | 0.021       | 0.021        | 77                | 6119         | 0.000         | 0.000         | 0.052       | 0.052        | 27667             |
| 3              | 125.3        | 0.000         | 0.000         | 0.041       | 0.041        | 443               | 43.16        | 0.000         | 0.000         | 0.021       | 0.021        | 79                | 4450         | 0.000         | 0.000         | 0.179       | 0.179        | 68867             |
| 4              | 88.02        | 0.000         | 0.000         | 0.037       | 0.037        | 281               | 43.16        | 0.000         | 0.000         | 0.030       | 0.030        | 112               | 4044         | 0.000         | 0.000         | 0.115       | 0.115        | 40151             |
| 5              | 57.19        | 0.000         | 0.000         | 0.033       | 0.033        | 161               | 32.85        | 0.000         | 0.000         | 0.025       | 0.025        | 70                | 4635         | 0.000         | 0.000         | 0.066       | 0.066        | 26511             |
| 6              | 168.9        | 0.000         | 0.000         | 0.045       | 0.045        | 650               | 39.02        | 0.000         | 0.000         | 0.020       | 0.020        | 67                | 2420         | 0.000         | 0.000         | 0.038       | 0.038        | 7966              |
| 7              | 776.3        | 0.000         | 0.000         | 0.069       | 0.069        | 4638              | 32.85        | 0.000         | 0.000         | 0.024       | 0.024        | 68                | 1073         | 0.000         | 0.000         | 0.034       | 0.034        | 3123              |
| 8              | 629.1        | 0.000         | 0.000         | 0.065       | 0.065        | 3537              | 32.85        | 0.000         | 0.000         | 0.026       | 0.026        | 73                | 2814         | 0.000         | 0.000         | 0.064       | 0.064        | 15562             |
| 9              | 396.5        | 0.000         | 0.000         | 0.060       | 0.060        | 2042              | 39.02        | 0.000         | 0.000         | 0.021       | 0.021        | 71                | 2881         | 0.000         | 0.000         | 0.042       | 0.042        | 10503             |
| 10             | 396.5        | 0.000         | 0.000         | 0.058       | 0.058        | 1987              | 42.27        | 0.000         | 0.000         | 0.022       | 0.022        | 81                | 2660         | 0.000         | 0.000         | 0.057       | 0.057        | 13079             |
| 11             | 374.1        | 0.000         | 0.000         | 0.061       | 0.061        | 1982              | 66.70        | 0.000         | 0.000         | 0.034       | 0.034        | 197               | 625.3        | 0.000         | 0.000         | 0.063       | 0.063        | 3377              |
| 12             | 361.1        | 0.000         | 0.000         | 0.063       | 0.063        | 1953              | 43.16        | 0.000         | 0.000         | 0.061       | 0.061        | 226               | 313.4        | 0.000         | 0.000         | 0.078       | 0.078        | 2101              |
| 13             | 311.3        | 0.000         | 0.000         | 0.067       | 0.067        | 1799              | 49.04        | 0.000         | 0.000         | 0.031       | 0.031        | 132               | 68.95        | 0.000         | 0.000         | 0.033       | 0.033        | 198               |
| 14             | 201.4        | 0.000         | 0.000         | 0.059       | 0.059        | 1023              | 59.11        | 0.000         | 0.000         | 0.039       | 0.039        | 201               | 138.2        | 0.000         | 0.000         | 0.113       | 0.113        | 1347              |
| 15             | 77.59        | 0.000         | 0.000         | 0.078       | 0.078        | 525               | 1290         | 0.000         | 0.000         | 0.063       | 0.063        | 7013              | 149.4        | 0.000         | 0.000         | 0.059       | 0.059        | 759               |
| 16             | 53.53        | 0.000         | 0.000         | 0.038       | 0.038        | 176               | 1830         | 0.000         | 0.000         | 0.079       | 0.079        | 12556             | 75.08        | 0.000         | 0.000         | 0.065       | 0.065        | 422               |
| 17             | 35.58        | 0.000         | 0.000         | 0.024       | 0.024        | 74                | 1510         | 0.000         | 0.000         | 0.040       | 0.040        | 5167              | 61.81        | 0.000         | 0.000         | 0.094       | 0.094        | 502               |
| 18             | 31.16        | 0.000         | 0.000         | 0.025       | 0.025        | 67                | 1960         | 0.000         | 0.000         | 0.055       | 0.055        | 9346              | 1188         | 0.000         | 0.000         | 0.103       | 0.103        | 10520             |
| 19             | 29.69        | 0.000         | 0.000         | 0.025       | 0.025        | 64                | 2655         | 0.000         | 0.000         | 0.085       | 0.085        | 19479             | 1086         | 0.000         | 0.000         | 0.043       | 0.043        | 3989              |
| 20             | 29.69        | 0.000         | 0.000         | 0.027       | 0.027        | 69                | 1933         | 0.000         | 0.000         | 0.042       | 0.042        | 6931              | 882.2        | 0.000         | 0.000         | 0.056       | 0.056        | 4238              |
| 21             | 29.14        | 0.000         | 0.000         | 0.027       | 0.027        | 68                | 1744         | 0.000         | 0.000         | 0.087       | 0.087        | 13158             | 357.4        | 0.000         | 0.000         | 0.053       | 0.053        | 1633              |
| 22             | 29.01        | 0.000         | 0.000         | 0.027       | 0.027        | 67                | 2315         | 0.000         | 0.000         | 0.101       | 0.101        | 20261             | 318.2        | 0.000         | 0.000         | 0.057       | 0.057        | 1578              |
| 23             | 29.01        | 0.000         | 0.000         | 0.027       | 0.027        | 67                | 4389         | 0.000         | 0.000         | 0.049       | 0.049        | 18543             | 250.1        | 0.000         | 0.000         | 0.038       | 0.038        | 817               |
| 24             | 640.7        | 0.000         | 0.000         | 0.040       | 0.040        | 2209              | 6731         | 0.000         | 0.000         | 0.052       | 0.052        | 30343             | 400.1        | 0.000         | 0.000         | 0.057       | 0.057        | 1971              |
| 25             | 1349         | 0.000         | 0.000         | 0.043       | 0.043        | 5000              | 7354         | 0.000         | 0.000         | 0.052       | 0.052        | 33058             | 427.9        | 0.000         | 0.000         | 0.057       | 0.057        | 2104              |
| 26             | 664.4        | 0.000         | 0.000         | 0.039       | 0.037        | 2147              | 6770         | 0.000         | 0.000         | 0.052       | 0.052        | 30513             | 211.6        | 0.000         | 0.000         | 0.058       | 0.058        | 1064              |
| 27             | 688.5        | 0.000         | 0.000         | 0.067       | 0.067        | 3973              | 6387         | 0.000         | 0.000         | 0.052       | 0.052        | 28837             | 133.9        | 0.000         | 0.000         | 0.059       | 0.059        | 683               |
| 28             | 883.4        | 0.000         | 0.000         | 0.066       | 0.066        | 5053              | 7369         | 0.000         | 0.000         | 0.052       | 0.052        | 33122             | 96.74        | 0.000         | 0.000         | 0.060       | 0.060        | 498               |
| 29             | 829.0        | 0.000         | 0.000         | 0.082       | 0.082        | 5852              | 8659         | 0.000         | 0.000         | 0.052       | 0.052        | 38725             | 135.7        | 0.000         | 0.000         | 0.059       | 0.059        | 692               |
| 30             | 452.5        | 0.000         | 0.000         | 0.056       | 0.056        | 2205              | 8871         | 0.000         | 0.000         | 0.052       | 0.052        | 39643             | 237.3        | 0.000         | 0.000         | 0.058       | 0.058        | 1188              |
| 31             |              |               |               |             |              |                   | 8972         | 0.000         | 0.000         | 0.052       | 0.052        | 40081             | 183.7        | 0.000         | 0.000         | 0.058       | 0.058        | 928               |
| Ten Daily Mean |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Ten Daily I    | 291.2        | 0.000         | 0.000         | 0.049       | 0.049        | 1473              | 44.30        | 0.000         | 0.000         | 0.029       | 0.029        | 135               | 3986         | 0.000         | 0.000         | 0.070       | 0.070        | 25261             |
| Ten Daily II   | 150.5        | 0.000         | 0.000         | 0.047       | 0.047        | 773               | 1140         | 0.000         | 0.000         | 0.053       | 0.053        | 6125              | 458.9        | 0.000         | 0.000         | 0.070       | 0.070        | 2745              |
| Ten Daily III  | 559.5        | 0.000         | 0.000         | 0.047       | 0.047        | 2664              | 6324         | 0.000         | 0.000         | 0.059       | 0.059        | 29662             | 250.2        | 0.000         | 0.000         | 0.056       | 0.056        | 1196              |
| Monthly        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Total          |              |               |               |             |              | 49108             |              |               |               |             |              | 388883            |              |               |               |             |              | 293216            |

Annual Sediment Load (Metric Tonnes) : 980837

**Daily Observed Sediment Datasheet for period : 2021-2022**

Station Name : Huvinhedigi ( AK000N2)

Local River : Krishna

Division : Lower Krishna Divn., Hyderabad

Sub-Division : Middle Krishna SD 2 , Kurnool

| Day            | Sep          |               |               |             |              |                   | Oct          |               |               |             |              |                   | Nov          |               |               |             |              |                   |
|----------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1              | 127.1        | 0.000         | 0.000         | 0.038       | 0.038        | 413               | 300.4        | 0.000         | 0.000         | 0.023       | 0.023        | 607               | 86.18        | 0.000         | 0.000         | 0.018       | 0.018        | 135               |
| 2              | 89.94        | 0.000         | 0.000         | 0.064       | 0.064        | 496               | 290.1        | 0.000         | 0.000         | 0.043       | 0.043        | 1085              | 87.64        | 0.000         | 0.000         | 0.035       | 0.035        | 262               |
| 3              | 73.52        | 0.000         | 0.000         | 0.065       | 0.065        | 410               | 308.6        | 0.000         | 0.000         | 0.044       | 0.044        | 1168              | 111.3        | 0.000         | 0.000         | 0.036       | 0.036        | 348               |
| 4              | 76.36        | 0.000         | 0.000         | 0.075       | 0.075        | 497               | 350.5        | 0.000         | 0.000         | 0.096       | 0.096        | 2919              | 99.51        | 0.000         | 0.000         | 0.035       | 0.035        | 305               |
| 5              | 85.73        | 0.000         | 0.000         | 0.060       | 0.060        | 444               | 394.3        | 0.000         | 0.000         | 0.068       | 0.068        | 2324              | 94.76        | 0.000         | 0.000         | 0.035       | 0.035        | 288               |
| 6              | 152.2        | 0.000         | 0.000         | 0.076       | 0.076        | 1004              | 339.7        | 0.000         | 0.000         | 0.094       | 0.094        | 2747              | 85.00        | 0.000         | 0.000         | 0.034       | 0.034        | 253               |
| 7              | 186.3        | 0.000         | 0.000         | 0.032       | 0.032        | 509               | 514.6        | 0.000         | 0.000         | 0.081       | 0.081        | 3602              | 72.54        | 0.000         | 0.000         | 0.033       | 0.033        | 210               |
| 8              | 186.5        | 0.000         | 0.000         | 0.056       | 0.056        | 896               | 365.6        | 0.000         | 0.000         | 0.067       | 0.067        | 2104              | 66.70        | 0.000         | 0.000         | 0.034       | 0.034        | 194               |
| 9              | 132.8        | 0.000         | 0.000         | 0.052       | 0.052        | 592               | 474.1        | 0.000         | 0.000         | 0.079       | 0.079        | 3252              | 61.20        | 0.000         | 0.000         | 0.032       | 0.032        | 171               |
| 10             | 1221         | 0.000         | 0.000         | 0.055       | 0.055        | 5813              | 464.9        | 0.000         | 0.000         | 0.047       | 0.047        | 1900              | 52.11        | 0.000         | 0.000         | 0.031       | 0.031        | 142               |
| 11             | 2161         | 0.000         | 0.000         | 0.068       | 0.068        | 12624             | 1188         | 0.000         | 0.000         | 0.040       | 0.040        | 4146              | 51.07        | 0.000         | 0.000         | 0.031       | 0.031        | 138               |
| 12             | 2656         | 0.000         | 0.000         | 0.054       | 0.054        | 12321             | 1259         | 0.000         | 0.000         | 0.047       | 0.047        | 5134              | 37.09        | 0.000         | 0.000         | 0.030       | 0.030        | 95                |
| 13             | 1539         | 0.000         | 0.000         | 0.029       | 0.029        | 3830              | 445.9        | 0.000         | 0.000         | 0.047       | 0.047        | 1799              | 35.95        | 0.000         | 0.000         | 0.029       | 0.029        | 91                |
| 14             | 2824         | 0.000         | 0.000         | 0.058       | 0.058        | 14199             | 938.9        | 0.000         | 0.000         | 0.050       | 0.050        | 4040              | 35.79        | 0.000         | 0.000         | 0.029       | 0.029        | 91                |
| 15             | 4743         | 0.000         | 0.000         | 0.068       | 0.068        | 27987             | 673.7        | 0.000         | 0.000         | 0.051       | 0.051        | 2946              | 42.81        | 0.000         | 0.000         | 0.039       | 0.039        | 144               |
| 16             | 4926         | 0.000         | 0.000         | 0.052       | 0.052        | 22259             | 451.9        | 0.000         | 0.000         | 0.047       | 0.047        | 1827              | 41.86        | 0.000         | 0.000         | 0.030       | 0.030        | 109               |
| 17             | 1311         | 0.000         | 0.000         | 0.026       | 0.026        | 2990              | 246.8        | 0.000         | 0.000         | 0.042       | 0.042        | 895               | 45.51        | 0.000         | 0.000         | 0.013       | 0.013        | 50                |
| 18             | 1325         | 0.000         | 0.000         | 0.039       | 0.039        | 4453              | 282.9        | 0.000         | 0.000         | 0.046       | 0.046        | 1124              | 71.57        | 0.000         | 0.000         | 0.047       | 0.047        | 291               |
| 19             | 1294         | 0.000         | 0.000         | 0.055       | 0.055        | 6148              | 259.3        | 0.000         | 0.000         | 0.042       | 0.042        | 950               | 75.79        | 0.000         | 0.000         | 0.034       | 0.034        | 221               |
| 20             | 341.4        | 0.000         | 0.000         | 0.016       | 0.016        | 484               | 115.6        | 0.000         | 0.000         | 0.052       | 0.052        | 516               | 92.26        | 0.000         | 0.000         | 0.046       | 0.046        | 364               |
| 21             | 111.7        | 0.000         | 0.000         | 0.021       | 0.021        | 203               | 66.76        | 0.000         | 0.000         | 0.026       | 0.026        | 150               | 76.02        | 0.000         | 0.000         | 0.034       | 0.034        | 222               |
| 22             | 555.2        | 0.000         | 0.000         | 0.200       | 0.200        | 9599              | 58.52        | 0.000         | 0.000         | 0.018       | 0.018        | 88                | 105.6        | 0.000         | 0.000         | 0.036       | 0.036        | 325               |
| 23             | 513.7        | 0.000         | 0.000         | 0.241       | 0.241        | 10696             | 66.07        | 0.000         | 0.000         | 0.021       | 0.021        | 118               | 84.66        | 0.000         | 0.000         | 0.037       | 0.037        | 271               |
| 24             | 248.1        | 0.000         | 0.000         | 0.104       | 0.104        | 2234              | 68.52        | 0.000         | 0.000         | 0.033       | 0.033        | 196               | 137.1        | 0.000         | 0.000         | 0.125       | 0.125        | 1475              |
| 25             | 154.0        | 0.000         | 0.000         | 0.124       | 0.124        | 1645              | 81.90        | 0.000         | 0.000         | 0.033       | 0.033        | 232               | 112.8        | 0.000         | 0.000         | 0.094       | 0.094        | 918               |
| 26             | 207.9        | 0.000         | 0.000         | 0.058       | 0.058        | 1046              | 89.07        | 0.000         | 0.000         | 0.032       | 0.032        | 247               | 79.83        | 0.000         | 0.000         | 0.083       | 0.083        | 569               |
| 27             | 278.2        | 0.000         | 0.000         | 0.671       | 0.671        | 16128             | 78.53        | 0.000         | 0.000         | 0.014       | 0.014        | 98                | 56.09        | 0.000         | 0.000         | 0.078       | 0.078        | 379               |
| 28             | 317.9        | 0.000         | 0.000         | 0.095       | 0.095        | 2615              | 85.58        | 0.000         | 0.000         | 0.019       | 0.019        | 140               | 40.23        | 0.000         | 0.000         | 0.030       | 0.030        | 104               |
| 29             | 692.4        | 0.000         | 0.000         | 0.108       | 0.108        | 6485              | 84.51        | 0.000         | 0.000         | 0.013       | 0.013        | 93                | 32.65        | 0.000         | 0.000         | 0.064       | 0.064        | 179               |
| 30             | 301.7        | 0.000         | 0.000         | 0.128       | 0.128        | 3324              | 78.45        | 0.000         | 0.000         | 0.017       | 0.017        | 115               | 37.10        | 0.000         | 0.000         | 0.060       | 0.060        | 193               |
| 31             |              |               |               |             |              |                   | 69.46        | 0.000         | 0.000         | 0.033       | 0.033        | 199               |              |               |               |             |              |                   |
| Ten Daily Mean |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Ten Daily I    | 233.1        | 0.000         | 0.000         | 0.057       | 0.057        | 1107              | 380.3        | 0.000         | 0.000         | 0.064       | 0.064        | 2171              | 81.70        | 0.000         | 0.000         | 0.033       | 0.033        | 231               |
| Ten Daily II   | 2312         | 0.000         | 0.000         | 0.047       | 0.047        | 10729             | 586.2        | 0.000         | 0.000         | 0.046       | 0.046        | 2338              | 52.97        | 0.000         | 0.000         | 0.033       | 0.033        | 159               |
| Ten Daily III  | 338.1        | 0.000         | 0.000         | 0.175       | 0.175        | 5397              | 75.22        | 0.000         | 0.000         | 0.023       | 0.023        | 152               | 76.21        | 0.000         | 0.000         | 0.064       | 0.064        | 464               |
| Monthly        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Total          |              |               |               |             |              | 172341            |              |               |               |             |              | 46762             |              |               |               |             |              | 8537              |

Annual Sediment Load (Metric Tonnes) : 980837

**Daily Observed Sediment Datasheet for period : 2021-2022**

Station Name : Huvinhedigi ( AK000N2)

Local River : Krishna

Division : Lower Krishna Divn., Hyderabad

Sub-Division : Middle Krishna SD 2 , Kurnool

| Day            | Dec          |               |               |             |              |                   | Jan          |               |               |             |              |                   | Feb          |               |               |             |              |                   |
|----------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1              | 33.22        | 0.000         | 0.000         | 0.043       | 0.043        | 123               | 7.446        | 0.000         | 0.000         | 0.038       | 0.038        | 24                | 54.62        | 0.000         | 0.000         | 0.045       | 0.045        | 211               |
| 2              | 31.90        | 0.000         | 0.000         | 0.043       | 0.043        | 118               | 7.014        | 0.000         | 0.000         | 0.037       | 0.037        | 23                | 62.79        | 0.000         | 0.000         | 0.045       | 0.045        | 246               |
| 3              | 27.52        | 0.000         | 0.000         | 0.042       | 0.042        | 100               | 4.664        | 0.000         | 0.000         | 0.036       | 0.036        | 14                | 64.13        | 0.000         | 0.000         | 0.045       | 0.045        | 251               |
| 4              | 31.85        | 0.000         | 0.000         | 0.043       | 0.043        | 117               | 5.352        | 0.000         | 0.000         | 0.037       | 0.037        | 17                | 67.93        | 0.000         | 0.000         | 0.046       | 0.046        | 268               |
| 5              | 32.48        | 0.000         | 0.000         | 0.043       | 0.043        | 120               | 11.92        | 0.000         | 0.000         | 0.039       | 0.039        | 40                | 71.52        | 0.000         | 0.000         | 0.046       | 0.046        | 283               |
| 6              | 25.21        | 0.000         | 0.000         | 0.053       | 0.053        | 114               | 13.87        | 0.000         | 0.000         | 0.040       | 0.040        | 48                | 75.95        | 0.000         | 0.000         | 0.046       | 0.046        | 302               |
| 7              | 20.81        | 0.000         | 0.000         | 0.041       | 0.041        | 74                | 16.73        | 0.000         | 0.000         | 0.040       | 0.040        | 58                | 67.99        | 0.000         | 0.000         | 0.042       | 0.042        | 245               |
| 8              | 19.17        | 0.000         | 0.000         | 0.041       | 0.041        | 68                | 42.34        | 0.000         | 0.000         | 0.044       | 0.044        | 160               | 60.66        | 0.000         | 0.000         | 0.045       | 0.045        | 237               |
| 9              | 18.82        | 0.000         | 0.000         | 0.041       | 0.041        | 66                | 51.19        | 0.000         | 0.000         | 0.044       | 0.044        | 197               | 63.73        | 0.000         | 0.000         | 0.045       | 0.045        | 250               |
| 10             | 19.43        | 0.000         | 0.000         | 0.041       | 0.041        | 69                | 53.83        | 0.000         | 0.000         | 0.044       | 0.044        | 206               | 56.22        | 0.000         | 0.000         | 0.045       | 0.045        | 218               |
| 11             | 27.03        | 0.000         | 0.000         | 0.042       | 0.042        | 98                | 60.91        | 0.000         | 0.000         | 0.045       | 0.045        | 238               | 33.80        | 0.000         | 0.000         | 0.043       | 0.043        | 125               |
| 12             | 28.73        | 0.000         | 0.000         | 0.042       | 0.042        | 105               | 75.90        | 0.000         | 0.000         | 0.046       | 0.046        | 302               | 30.90        | 0.000         | 0.000         | 0.043       | 0.043        | 114               |
| 13             | 34.46        | 0.000         | 0.000         | 0.049       | 0.049        | 146               | 80.65        | 0.000         | 0.000         | 0.046       | 0.046        | 323               | 26.95        | 0.000         | 0.000         | 0.042       | 0.042        | 98                |
| 14             | 38.36        | 0.000         | 0.000         | 0.043       | 0.043        | 144               | 70.01        | 0.000         | 0.000         | 0.046       | 0.046        | 277               | 16.46        | 0.000         | 0.000         | 0.038       | 0.038        | 54                |
| 15             | 40.79        | 0.000         | 0.000         | 0.044       | 0.044        | 154               | 71.64        | 0.000         | 0.000         | 0.046       | 0.046        | 284               | 12.95        | 0.000         | 0.000         | 0.039       | 0.039        | 44                |
| 16             | 40.48        | 0.000         | 0.000         | 0.044       | 0.044        | 152               | 67.13        | 0.000         | 0.000         | 0.046       | 0.046        | 264               | 10.27        | 0.000         | 0.000         | 0.039       | 0.039        | 34                |
| 17             | 45.23        | 0.000         | 0.000         | 0.044       | 0.044        | 172               | 49.60        | 0.000         | 0.000         | 0.043       | 0.043        | 182               | 10.31        | 0.000         | 0.000         | 0.039       | 0.039        | 34                |
| 18             | 46.44        | 0.000         | 0.000         | 0.044       | 0.044        | 177               | 43.22        | 0.000         | 0.000         | 0.044       | 0.044        | 164               | 9.060        | 0.000         | 0.000         | 0.038       | 0.038        | 30                |
| 19             | 44.07        | 0.000         | 0.000         | 0.044       | 0.044        | 167               | 37.09        | 0.000         | 0.000         | 0.043       | 0.043        | 139               | 8.857        | 0.000         | 0.000         | 0.038       | 0.038        | 29                |
| 20             | 51.35        | 0.000         | 0.000         | 0.047       | 0.047        | 207               | 30.33        | 0.000         | 0.000         | 0.043       | 0.043        | 111               | 9.530        | 0.000         | 0.000         | 0.038       | 0.038        | 32                |
| 21             | 56.05        | 0.000         | 0.000         | 0.045       | 0.045        | 217               | 14.78        | 0.000         | 0.000         | 0.040       | 0.040        | 51                | 9.752        | 0.000         | 0.000         | 0.038       | 0.038        | 32                |
| 22             | 52.42        | 0.000         | 0.000         | 0.045       | 0.045        | 202               | 12.47        | 0.000         | 0.000         | 0.039       | 0.039        | 42                | 14.19        | 0.000         | 0.000         | 0.040       | 0.040        | 49                |
| 23             | 44.51        | 0.000         | 0.000         | 0.044       | 0.044        | 169               | 12.61        | 0.000         | 0.000         | 0.039       | 0.039        | 43                | 24.58        | 0.000         | 0.000         | 0.042       | 0.042        | 89                |
| 24             | 32.55        | 0.000         | 0.000         | 0.043       | 0.043        | 120               | 8.892        | 0.000         | 0.000         | 0.030       | 0.030        | 23                | 41.46        | 0.000         | 0.000         | 0.044       | 0.044        | 156               |
| 25             | 23.58        | 0.000         | 0.000         | 0.042       | 0.042        | 85                | 8.073        | 0.000         | 0.000         | 0.038       | 0.038        | 26                | 57.89        | 0.000         | 0.000         | 0.045       | 0.045        | 225               |
| 26             | 21.99        | 0.000         | 0.000         | 0.041       | 0.041        | 79                | 7.790        | 0.000         | 0.000         | 0.038       | 0.038        | 25                | 50.57        | 0.000         | 0.000         | 0.044       | 0.044        | 194               |
| 27             | 13.81        | 0.000         | 0.000         | 0.039       | 0.039        | 47                | 9.229        | 0.000         | 0.000         | 0.038       | 0.038        | 31                | 56.26        | 0.000         | 0.000         | 0.045       | 0.045        | 218               |
| 28             | 10.96        | 0.000         | 0.000         | 0.039       | 0.039        | 37                | 6.504        | 0.000         | 0.000         | 0.037       | 0.037        | 21                | 57.29        | 0.000         | 0.000         | 0.056       | 0.056        | 277               |
| 29             | 10.43        | 0.000         | 0.000         | 0.039       | 0.039        | 35                | 18.72        | 0.000         | 0.000         | 0.041       | 0.041        | 66                |              |               |               |             |              |                   |
| 30             | 10.40        | 0.000         | 0.000         | 0.039       | 0.039        | 35                | 34.44        | 0.000         | 0.000         | 0.043       | 0.043        | 128               |              |               |               |             |              |                   |
| 31             | 7.891        | 0.000         | 0.000         | 0.038       | 0.038        | 26                | 46.50        | 0.000         | 0.000         | 0.042       | 0.042        | 168               |              |               |               |             |              |                   |
| Ten Daily Mean |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Ten Daily I    | 26.04        | 0.000         | 0.000         | 0.043       | 0.043        | 97                | 21.44        | 0.000         | 0.000         | 0.040       | 0.040        | 79                | 64.55        | 0.000         | 0.000         | 0.045       | 0.045        | 251               |
| Ten Daily II   | 39.69        | 0.000         | 0.000         | 0.044       | 0.044        | 152               | 58.65        | 0.000         | 0.000         | 0.045       | 0.045        | 228               | 16.91        | 0.000         | 0.000         | 0.040       | 0.040        | 60                |
| Ten Daily III  | 25.87        | 0.000         | 0.000         | 0.041       | 0.041        | 96                | 16.36        | 0.000         | 0.000         | 0.039       | 0.039        | 57                | 39.00        | 0.000         | 0.000         | 0.044       | 0.044        | 155               |
| Monthly        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Total          |              |               |               |             |              | 3544              |              |               |               |             |              | 3694              |              |               |               |             |              | 4346              |

**Daily Observed Sediment Datasheet for period : 2021-2022**

Station Name : Huvinhedigi ( AK000N2)

Local River : Krishna

Division : Lower Krishna Divn., Hyderabad

Sub-Division : Middle Krishna SD 2 , Kurnool

| Day            | Mar          |               |               |             |              |                   | Apr          |               |               |             |              |                   | May          |               |               |             |              |                   |
|----------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1              | 58.83        | 0.000         | 0.000         | 0.045       | 0.045        | 229               | 49.08        | 0.000         | 0.000         | 0.044       | 0.044        | 188               | 8.628        | 0.000         | 0.000         | 0.038       | 0.038        | 28                |
| 2              | 72.25        | 0.000         | 0.000         | 0.046       | 0.046        | 286               | 46.11        | 0.000         | 0.000         | 0.044       | 0.044        | 176               | 8.529        | 0.000         | 0.000         | 0.045       | 0.045        | 33                |
| 3              | 59.46        | 0.000         | 0.000         | 0.045       | 0.045        | 232               | 41.82        | 0.000         | 0.000         | 0.044       | 0.044        | 158               | 8.628        | 0.000         | 0.000         | 0.038       | 0.038        | 28                |
| 4              | 61.48        | 0.000         | 0.000         | 0.045       | 0.045        | 240               | 48.42        | 0.000         | 0.000         | 0.048       | 0.048        | 199               | 6.584        | 0.000         | 0.000         | 0.037       | 0.037        | 21                |
| 5              | 56.84        | 0.000         | 0.000         | 0.045       | 0.045        | 220               | 51.97        | 0.000         | 0.000         | 0.045       | 0.045        | 200               | 7.046        | 0.000         | 0.000         | 0.037       | 0.037        | 23                |
| 6              | 48.76        | 0.000         | 0.000         | 0.044       | 0.044        | 187               | 60.54        | 0.000         | 0.000         | 0.045       | 0.045        | 236               | 7.163        | 0.000         | 0.000         | 0.038       | 0.038        | 23                |
| 7              | 31.14        | 0.000         | 0.000         | 0.035       | 0.035        | 94                | 74.76        | 0.000         | 0.000         | 0.046       | 0.046        | 297               | 7.963        | 0.000         | 0.000         | 0.038       | 0.038        | 26                |
| 8              | 20.99        | 0.000         | 0.000         | 0.041       | 0.041        | 75                | 75.19        | 0.000         | 0.000         | 0.046       | 0.046        | 299               | 9.530        | 0.000         | 0.000         | 0.038       | 0.038        | 32                |
| 9              | 17.02        | 0.000         | 0.000         | 0.040       | 0.040        | 59                | 75.50        | 0.000         | 0.000         | 0.046       | 0.046        | 300               | 18.74        | 0.000         | 0.000         | 0.071       | 0.071        | 115               |
| 10             | 13.78        | 0.000         | 0.000         | 0.040       | 0.040        | 47                | 61.57        | 0.000         | 0.000         | 0.045       | 0.045        | 241               | 16.98        | 0.000         | 0.000         | 0.040       | 0.040        | 59                |
| 11             | 14.49        | 0.000         | 0.000         | 0.040       | 0.040        | 50                | 57.63        | 0.000         | 0.000         | 0.042       | 0.042        | 208               | 16.59        | 0.000         | 0.000         | 0.040       | 0.040        | 58                |
| 12             | 9.438        | 0.000         | 0.000         | 0.038       | 0.038        | 31                | 46.92        | 0.000         | 0.000         | 0.044       | 0.044        | 179               | 16.25        | 0.000         | 0.000         | 0.040       | 0.040        | 57                |
| 13             | 9.071        | 0.000         | 0.000         | 0.038       | 0.038        | 30                | 39.11        | 0.000         | 0.000         | 0.043       | 0.043        | 147               | 11.80        | 0.000         | 0.000         | 0.039       | 0.039        | 40                |
| 14             | 7.689        | 0.000         | 0.000         | 0.029       | 0.029        | 19                | 25.24        | 0.000         | 0.000         | 0.042       | 0.042        | 91                | 9.000        | 0.000         | 0.000         | 0.038       | 0.038        | 30                |
| 15             | 6.519        | 0.000         | 0.000         | 0.037       | 0.037        | 21                | 18.29        | 0.000         | 0.000         | 0.041       | 0.041        | 64                | 6.649        | 0.000         | 0.000         | 0.037       | 0.037        | 21                |
| 16             | 5.801        | 0.000         | 0.000         | 0.037       | 0.037        | 18                | 18.86        | 0.000         | 0.000         | 0.041       | 0.041        | 66                | 6.300        | 0.000         | 0.000         | 0.037       | 0.037        | 20                |
| 17             | 5.694        | 0.000         | 0.000         | 0.037       | 0.037        | 18                | 16.92        | 0.000         | 0.000         | 0.040       | 0.040        | 59                | 6.245        | 0.000         | 0.000         | 0.043       | 0.043        | 23                |
| 18             | 6.300        | 0.000         | 0.000         | 0.037       | 0.037        | 20                | 30.74        | 0.000         | 0.000         | 0.040       | 0.040        | 106               | 11.53        | 0.000         | 0.000         | 0.039       | 0.039        | 39                |
| 19             | 10.14        | 0.000         | 0.000         | 0.039       | 0.039        | 34                | 30.90        | 0.000         | 0.000         | 0.043       | 0.043        | 114               | 28.00        | 0.000         | 0.000         | 0.042       | 0.042        | 102               |
| 20             | 23.58        | 0.000         | 0.000         | 0.042       | 0.042        | 85                | 18.55        | 0.000         | 0.000         | 0.041       | 0.041        | 65                | 33.01        | 0.000         | 0.000         | 0.043       | 0.043        | 122               |
| 21             | 23.99        | 0.000         | 0.000         | 0.045       | 0.045        | 93                | 17.70        | 0.000         | 0.000         | 0.041       | 0.041        | 62                | 95.62        | 0.000         | 0.000         | 0.047       | 0.047        | 388               |
| 22             | 30.03        | 0.000         | 0.000         | 0.042       | 0.042        | 110               | 13.61        | 0.000         | 0.000         | 0.040       | 0.040        | 47                | 74.44        | 0.000         | 0.000         | 0.046       | 0.046        | 296               |
| 23             | 44.32        | 0.000         | 0.000         | 0.044       | 0.044        | 168               | 5.717        | 0.000         | 0.000         | 0.037       | 0.037        | 18                | 50.27        | 0.000         | 0.000         | 0.048       | 0.048        | 206               |
| 24             | 52.98        | 0.000         | 0.000         | 0.045       | 0.045        | 204               | 5.649        | 0.000         | 0.000         | 0.037       | 0.037        | 18                | 49.30        | 0.000         | 0.000         | 0.044       | 0.044        | 189               |
| 25             | 56.79        | 0.000         | 0.000         | 0.045       | 0.045        | 220               | 13.02        | 0.000         | 0.000         | 0.048       | 0.048        | 53                | 58.28        | 0.000         | 0.000         | 0.045       | 0.045        | 227               |
| 26             | 53.92        | 0.000         | 0.000         | 0.045       | 0.045        | 208               | 10.60        | 0.000         | 0.000         | 0.039       | 0.039        | 36                | 37.87        | 0.000         | 0.000         | 0.043       | 0.043        | 142               |
| 27             | 56.26        | 0.000         | 0.000         | 0.045       | 0.045        | 218               | 10.67        | 0.000         | 0.000         | 0.039       | 0.039        | 36                | 25.48        | 0.000         | 0.000         | 0.042       | 0.042        | 92                |
| 28             | 56.13        | 0.000         | 0.000         | 0.045       | 0.045        | 218               | 11.00        | 0.000         | 0.000         | 0.039       | 0.039        | 37                | 15.85        | 0.000         | 0.000         | 0.040       | 0.040        | 55                |
| 29             | 53.23        | 0.000         | 0.000         | 0.041       | 0.041        | 188               | 10.47        | 0.000         | 0.000         | 0.039       | 0.039        | 35                | 14.36        | 0.000         | 0.000         | 0.040       | 0.040        | 49                |
| 30             | 48.03        | 0.000         | 0.000         | 0.044       | 0.044        | 184               | 9.707        | 0.000         | 0.000         | 0.039       | 0.039        | 32                | 15.73        | 0.000         | 0.000         | 0.042       | 0.042        | 57                |
| 31             | 51.58        | 0.000         | 0.000         | 0.045       | 0.045        | 198               |              |               |               |             |              |                   | 9.347        | 0.000         | 0.000         | 0.038       | 0.038        | 31                |
| Ten Daily Mean |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Ten Daily I    | 44.05        | 0.000         | 0.000         | 0.043       | 0.043        | 167               | 58.50        | 0.000         | 0.000         | 0.045       | 0.045        | 229               | 9.979        | 0.000         | 0.000         | 0.042       | 0.042        | 39                |
| Ten Daily II   | 9.872        | 0.000         | 0.000         | 0.037       | 0.037        | 33                | 30.31        | 0.000         | 0.000         | 0.042       | 0.042        | 110               | 14.54        | 0.000         | 0.000         | 0.040       | 0.040        | 51                |
| Ten Daily III  | 47.93        | 0.000         | 0.000         | 0.044       | 0.044        | 183               | 10.81        | 0.000         | 0.000         | 0.040       | 0.040        | 37                | 40.60        | 0.000         | 0.000         | 0.043       | 0.043        | 157               |
| Monthly        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Total          |              |               |               |             |              | 4006              |              |               |               |             |              | 3767              |              |               |               |             |              | 2632              |

Annual Sediment Load (Metric Tonnes) : 980837

**Annual Sediment Load for period : 1976-2022**

**Station Name : Huvinhedigi ( AK000N2)**

**Division : Lower Krishna Divn., Hyderabad**

**Local River : Krishna**

**Sub-Division : Middle Krishna SD 2 , Kurnool**

| Year      | Monsoon<br>(M.T.)                                                                       | Non-Monsoon<br>(M.T.) | Annual Load<br>(M.T.) | Annual Run Off<br>(MCM) |
|-----------|-----------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------------|
| 1976-1977 | 15034623                                                                                | 2435770               | 17470394              | 22181                   |
| 1977-1978 | 27990231                                                                                | 79235                 | 28069466              | 19839                   |
| 1978-1979 | 22521618                                                                                | 9228                  | 22530846              | 21787                   |
| 1979-1980 | 34677180                                                                                | 34676                 | 34711856              | 21502                   |
| 1980-1981 | 12868598                                                                                | 783                   | 12869381              | 23804                   |
| 1981-1982 | 31637622                                                                                | 11957                 | 31649579              | 23650                   |
| 1982-1983 | 10629384                                                                                | 12747                 | 10642131              | 17399                   |
| 1983-1984 | 14722393                                                                                | 17093                 | 14739486              | 22905                   |
| 1984-1985 | 4137790                                                                                 | 813                   | 4138603               | 14722                   |
| 1985-1986 | 3729545                                                                                 | 9849                  | 3739394               | 11372                   |
| 1986-1987 | 7957103                                                                                 | 15676                 | 7972778               | 10444                   |
| 1987-1988 | 7124826                                                                                 | 14743                 | 7139568               | 9540                    |
| 1988-1989 | 11302705                                                                                | 9501                  | 11312205              | 20705                   |
| 1989-1990 | 7262673                                                                                 | 36971                 | 7299643               | 13993                   |
| 1990-1991 | 5147906                                                                                 | 15057                 | 5162963               | 19178                   |
| 1991-1992 | 8584037                                                                                 | 8561                  | 8592599               | 24405                   |
| 1992-1993 | 1303885                                                                                 | 10347                 | 1314232               | 13361                   |
| 1993-1994 | 3272102                                                                                 | 20586                 | 3292688               | 20173                   |
| 1994-1995 | 11063941                                                                                | 30491                 | 11094433              | 32080                   |
| 1995-1996 | 2356670                                                                                 | 6100                  | 2362769               | 9855                    |
| 1996-1997 | 3674113                                                                                 | 5060                  | 3679173               | 14166                   |
| 1997-1998 | 2129422                                                                                 | 33085                 | 2162507               | 22065                   |
| 1998-1999 | 5988176                                                                                 | 13472                 | 6001648               | 16600                   |
| 1999-2000 | 3227040                                                                                 | 27219                 | 3254260               | 17131                   |
| 2000-2001 | 1579543                                                                                 | 29267                 | 1608810               | 8056                    |
| 2001-2002 | 2999822                                                                                 | 20680                 | 3020502               | 7963                    |
| 2002-2003 | 1082736                                                                                 | 27270                 | 1110006               | 4692                    |
| 2003-2004 | 298944                                                                                  | 39368                 | 338312                | 3532                    |
| 2004-2005 | 1959153                                                                                 | 34984                 | 1994137               | 10279                   |
| 2005-2006 | 5407328                                                                                 | 23859                 | 5431187               | 26578                   |
| 2006-2007 | <b>Sediment Observation Suspended from 31/5/2006<br/>and Restarted from 12/06/2013.</b> |                       |                       | 26794                   |
| 2007-2008 |                                                                                         |                       |                       | 21694                   |
| 2008-2009 |                                                                                         |                       |                       | 11564                   |
| 2009-2010 |                                                                                         |                       |                       | 12505                   |
| 2010-2011 |                                                                                         |                       |                       | 10526                   |
| 2011-2012 |                                                                                         |                       |                       | 14134                   |
| 2012-2013 |                                                                                         |                       |                       | 5151                    |
| 2013-2014 | 1743609                                                                                 | 12925                 | 1756534               | 12171                   |
| 2014-2015 | 1193149                                                                                 | 20563                 | 1213712               | 10880                   |
| 2015-2016 | 64911                                                                                   | 5738                  | 70649                 | 1158                    |
| 2016-2017 | 861847                                                                                  | 2391                  | 864238                | 8143                    |
| 2017-2018 | 447361                                                                                  | 1966                  | 449328                | 6025                    |
| 2018-2019 | 429299                                                                                  | 637                   | 429936                | 11200                   |
| 2019-2020 | 1093481                                                                                 | 8149                  | 1101630               | 34134                   |
| 2020-2021 | 2408567                                                                                 | 4813                  | 2413380               | 20708                   |
| 2021-2022 | 958848                                                                                  | 21989                 | 980837                | 16058                   |



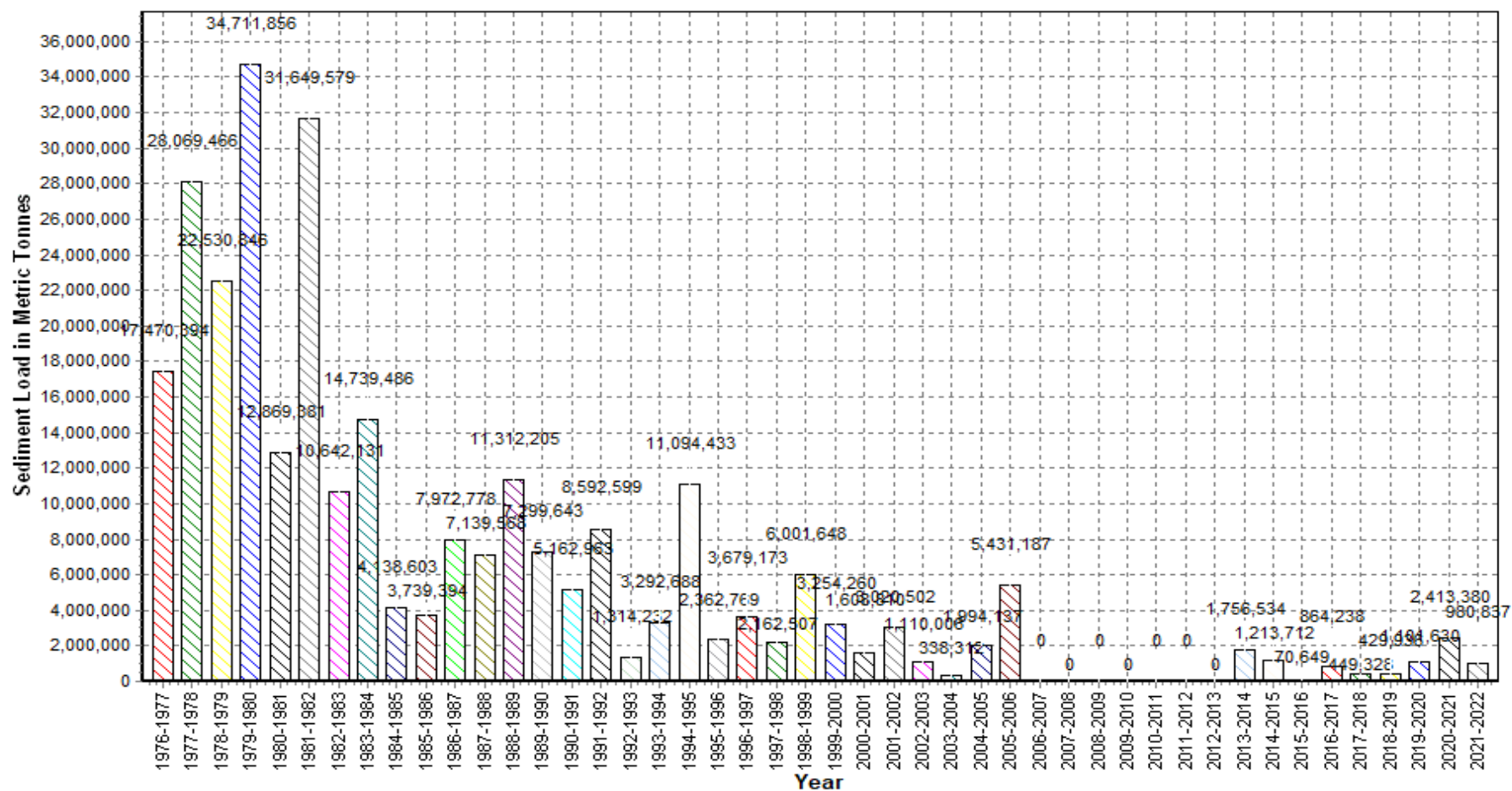
# Annual Sediment Load for the period: 1976-2022

Station Name : Huvinhedigi ( AK000N2)

Local River : Krishna

Division : Lower Krishna Divn., Hyderabad

Sub-Division : Middle Krishna SD 2 , Kurnool



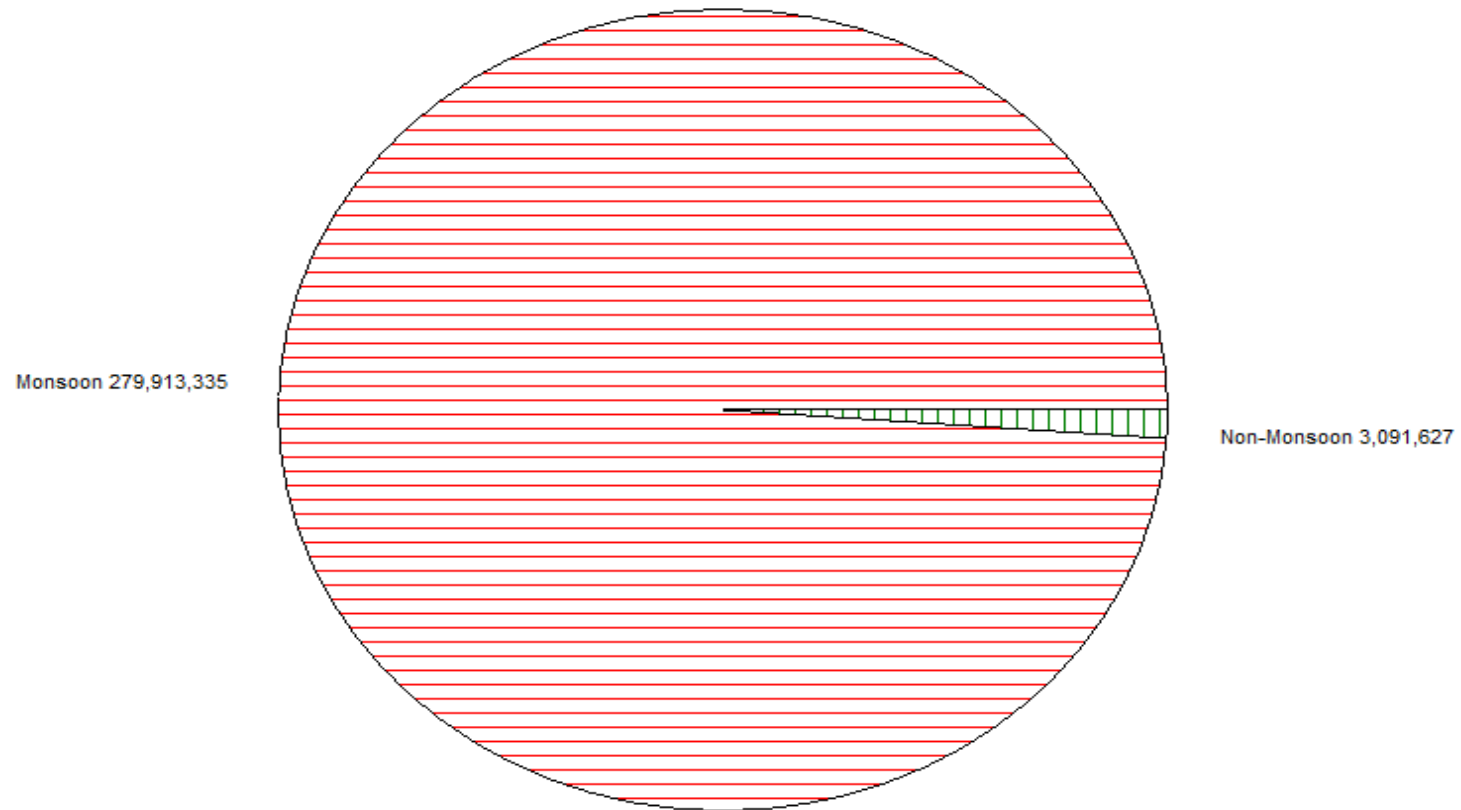
Seasonal Sediment Load for the period : 1976-2021

Station Name : Huvinhedigi ( AK000N2)

Local River : Krishna

Division : Lower Krishna Divn., Hyderabad

Sub-Division : Middle Krishna SD 2 , Kurnool



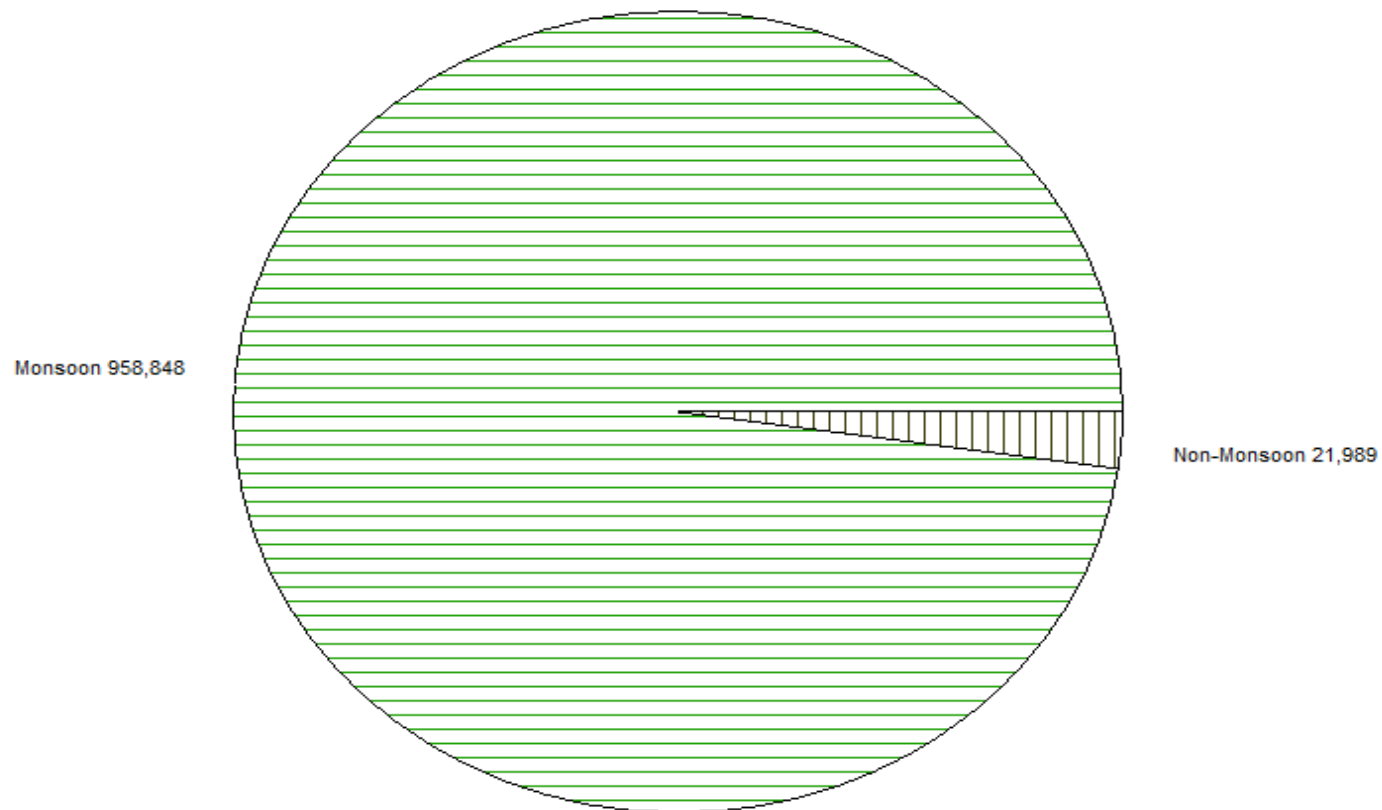
Seasonal Sediment Load for the Year: 2021-2022

Station Name : Huvinhedigi ( AK000N2)

Local River : Krishna

Division : Lower Krishna Divn., Hyderabad

Sub-Division : Middle Krishna SD 2 , Kurnool



**BED MATERIAL ANALYSIS DATA FOR THE YEAR 2021-22**

SITE : KRISHNA AT HUVINHEDGI CODE : AK000N2  
 MEASURING : LKDN CROSS SECTION : Station gauge line  
 AUTHORITY

**Premonsoon Survey ( Date 08-06-2021 )**

Discharge Observed : --- cumec Water edge RB --- m LB : --- m  
 Area of section : --- sq.m MeanVelocit : --- m/sec  
 Wetted perimeter : --- Hydraulic Mean Depth : --- m

| Sl. No | R.D.of sampling point in meters | R.L. of bed in meters | Mean diameter in mm | Remarks               |
|--------|---------------------------------|-----------------------|---------------------|-----------------------|
| 1      | 100                             | 349.940               | 0.37                |                       |
| 2      | 180                             | 347.380               | 1.88                | Av.mean               |
| 3      | 280                             | 245.380               | 2.35                | dia "m" = <b>1.12</b> |
| 4      | 400                             | 345.010               | 0.82                | Silt factor           |
| 5      | 500                             | 344.570               | 0.97                | "f" =1.76 $\sqrt{m}$  |
| 6      | 600                             | 347.140               | 0.32                | = <b>1.86</b>         |

**Note :** i. Discharge observation was at station gauge line.  
 ii. River bed : Stagnant Water.

**Monsoon Survey ( Date 26-10-2021 )**

Discharge Observed : 89.07 cumec Water edge RB 598.40 m LB : 249.50 m  
 Area of section : 0.00 sq.m MeanVelocit : #Div/0! m/sec  
 Wetted perimeter : 0.00 Hydraulic Mean Depth : #Num! m

| Sl. No | R.D.of sampling point in meters | R.L. of bed in meters | Mean diameter in mm | Remarks               |
|--------|---------------------------------|-----------------------|---------------------|-----------------------|
| 1      | 100                             | 349.910               | 8.57                |                       |
| 2      | 180                             | 347.510               | 1.22                | Av.mean               |
| 3      | 280                             | 345.530               | 1.51                | dia "m" = <b>2.31</b> |
| 4      | 400                             | 345.280               | 1.23                | Silt factor           |
| 5      | 500                             | 343.910               | 0.62                | "f" =1.76 $\sqrt{m}$  |
| 6      | 600                             | 346.560               | 0.73                | = <b>2.68</b>         |

**Note :** i. Discharge observation was at station gauge line.  
 ii. River bed : Flowing water.

**Postmonsoon Survey ( Date 28-12-2021 )**

Discharge Observed : 10.958 cumec Water edge RB 596.00 m LB : 390.00 m  
 Area of section : 0.00 sq.m MeanVelocit : #Div/0! m/sec  
 Wetted perimeter : Hydraulic Mean Depth : m

| Sl. No | R.D.of sampling point in meters | R.L. of bed in meters | Mean diameter in mm | Remarks               |
|--------|---------------------------------|-----------------------|---------------------|-----------------------|
| 1      | 100                             | 349.975               | 0.79                |                       |
| 2      | 180                             | 347.510               | 1.42                | Av.mean               |
| 3      | 280                             | 345.565               | 2.17                | dia "m" = <b>1.44</b> |
| 4      | 400                             | 344.910               | 1.80                | Silt factor           |
| 5      | 500                             | 343.850               | 2.20                | "f" =1.76 $\sqrt{m}$  |
| 6      | 600                             | 346.320               | 0.28                | = <b>2.11</b>         |

**Note :** i. Discharge observation was at station gauge line.  
 ii. River bed : Flowing water.

## HISTORY SHEET

|                          |                                  |                   |                                 |
|--------------------------|----------------------------------|-------------------|---------------------------------|
|                          |                                  | <b>Water Year</b> | <b>: 2021-2022</b>              |
| <b>Site</b>              | <b>: SUDDAKAL</b>                | <b>Code</b>       | <b>: SUDDAKALLU</b>             |
| State                    | : Andhra Pradesh                 | District          | Mahbubnagar                     |
| Basin                    | : Krishna                        | Independent River | : Krishna                       |
| Tributary                | : Dindi                          | Sub Tributary     | :                               |
| Sub-Sub Tributary        | :                                | Local River       | :                               |
| Division                 | : Lower Krishna Divn., Hyderabad | Sub-Division      | : Middle Krishna SD 2 , Kurnool |
| Drainage Area            | : 2700 Sq. Km.                   | Bank              | : Left                          |
| Latitude                 | : 16°34'22"                      | Longitude         | : 78°25'24"                     |
| <b>Zero of Gauge (m)</b> | : 95.5 (m.s.l)<br>427.5 (m.s.l)  | 01-06-2016        | - 31-05-2018                    |
|                          | Opening Date                     | Closing Date      |                                 |
| Gauge                    | : 20-11-2014                     |                   |                                 |
| Discharge                | : 20-11-2014                     |                   |                                 |
| Sediment                 | : 20-11-2014                     |                   |                                 |
| Water Quality            | :                                |                   |                                 |

**Note : No Sediment Observations.**

## HISTORY SHEET

|                          |                                      |                   |                            |
|--------------------------|--------------------------------------|-------------------|----------------------------|
|                          |                                      | <b>Water Year</b> | <b>: 2021-2022</b>         |
| <b>Site</b>              | <b>: Sarati</b>                      | <b>Code</b>       | <b>: AKPA0C2</b>           |
| State                    | : Maharashtra                        | District          | Pune                       |
| Basin                    | : Krishna                            | Independent River | : Krishna                  |
| Tributary                | : Bhima                              | Sub Tributary     | : Nira                     |
| Sub-Sub Tributary        | : -                                  | Local River       | : Nira                     |
| Division                 | : Upper Krishna Divn, Pune           | Sub-Division      | : Lower Bhima SD, Sholapur |
| Drainage Area            | : 7200 Sq. Km.                       | Bank              | : Left                     |
| Latitude                 | : 17°54'43"                          | Longitude         | : 75°00'27"                |
| <b>Zero of Gauge (m)</b> | : 468.128 (m.s.l)<br>466.128 (m.s.l) | 25-08-1963        | - 31-05-2003               |
|                          | Opening Date                         | Closing Date      |                            |
| Gauge                    | : 25-08-1963                         |                   |                            |
| Discharge                | : 16-08-1965                         |                   |                            |
| Sediment                 | : 01-06-1966                         |                   |                            |
| Water Quality            | : 01-09-1972                         |                   |                            |

**Daily Observed Sediment Datasheet for period : 2021-2022**

Station Name : Sarati ( AKPA0C2)

Local River : Nira

Division : Upper Krishna Divn, Pune

Sub-Division : Lower Bhima SD, Sholapur

| Day                   | Jun          |               |               |             |              |                   | Jul          |               |               |             |              |                   | Aug          |               |               |             |              |                   |
|-----------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                       | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 7.519        | 0.000         | 0.000         | 0.012       | 0.012        | 8                 | 138.1        | 0.000         | 0.000         | 0.025       | 0.025        | 302               |
| 2                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 135.8        | 0.000         | 0.000         | 0.027       | 0.027        | 320               |
| 3                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 49.31        | 0.000         | 0.000         | 0.035       | 0.035        | 150               |
| 4                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 26.88        | 0.000         | 0.000         | 0.019       | 0.019        | 45                |
| 5                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 131.3        | 0.000         | 0.000         | 0.020       | 0.020        | 225               |
| 6                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 133.6        | 0.000         | 0.000         | 0.021       | 0.021        | 244               |
| 7                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 48.26        | 0.000         | 0.000         | 0.008       | 0.008        | 35                |
| 8                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 17.16        | 0.000         | 0.000         | 0.015       | 0.015        | 22                |
| 9                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 106.5        | 0.000         | 0.000         | 0.018       | 0.018        | 167               |
| 10                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 27.08        | 0.000         | 0.000         | 0.008       | 0.008        | 19                |
| 11                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 7.591        | 0.000         | 0.000         | 0.006       | 0.006        | 4                 |
| 12                    | 19.04        | 0.000         | 0.000         | 0.015       | 0.015        | 25                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 13                    | 14.22        | 0.000         | 0.000         | 0.014       | 0.014        | 17                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 14                    | 12.03        | 0.000         | 0.000         | 0.014       | 0.014        | 14                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 15                    | 11.04        | 0.000         | 0.000         | 0.013       | 0.013        | 13                | 12.02        | 0.000         | 0.000         | 0.022       | 0.022        | 23                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 16                    | 11.21        | 0.000         | 0.000         | 0.013       | 0.013        | 13                | 16.17        | 0.000         | 0.000         | 0.018       | 0.018        | 25                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 17                    | 7.815        | 0.000         | 0.000         | 0.012       | 0.012        | 8                 | 20.06        | 0.000         | 0.000         | 0.023       | 0.023        | 39                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 18                    | 8.471        | 0.000         | 0.000         | 0.012       | 0.012        | 9                 | 18.80        | 0.000         | 0.000         | 0.015       | 0.015        | 25                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 19                    | 14.91        | 0.000         | 0.000         | 0.014       | 0.014        | 18                | 16.59        | 0.000         | 0.000         | 0.015       | 0.015        | 22                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 20                    | 14.07        | 0.000         | 0.000         | 0.014       | 0.014        | 17                | 11.14        | 0.000         | 0.000         | 0.021       | 0.021        | 20                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 21                    | 15.94        | 0.000         | 0.000         | 0.015       | 0.015        | 20                | 9.266        | 0.000         | 0.000         | 0.013       | 0.013        | 10                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 22                    | 19.07        | 0.000         | 0.000         | 0.015       | 0.015        | 25                | 8.913        | 0.000         | 0.000         | 0.020       | 0.020        | 15                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 23                    | 14.21        | 0.000         | 0.000         | 0.014       | 0.014        | 17                | 7.979        | 0.000         | 0.000         | 0.025       | 0.025        | 17                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 24                    | 16.85        | 0.000         | 0.000         | 0.015       | 0.015        | 21                | 12.53        | 0.000         | 0.000         | 0.025       | 0.025        | 27                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 25                    | 17.23        | 0.000         | 0.000         | 0.015       | 0.015        | 22                | 514.0        | 0.000         | 0.000         | 0.035       | 0.035        | 1572              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 26                    | 15.29        | 0.000         | 0.000         | 0.014       | 0.014        | 19                | 152.0        | 0.000         | 0.000         | 0.026       | 0.026        | 340               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 27                    | 8.043        | 0.000         | 0.000         | 0.012       | 0.012        | 8                 | 382.3        | 0.000         | 0.000         | 0.033       | 0.033        | 1083              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 28                    | 8.511        | 0.000         | 0.000         | 0.012       | 0.012        | 9                 | 179.9        | 0.000         | 0.000         | 0.027       | 0.027        | 420               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 29                    | 6.010        | 0.000         | 0.000         | 0.011       | 0.011        | 6                 | 356.0        | 0.000         | 0.000         | 0.032       | 0.032        | 990               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 30                    | 7.889        | 0.000         | 0.000         | 0.012       | 0.012        | 8                 | 150.2        | 0.000         | 0.000         | 0.026       | 0.026        | 335               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 31                    |              |               |               |             |              |                   | 145.0        | 0.000         | 0.000         | 0.025       | 0.025        | 316               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| <b>Ten Daily Mean</b> |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Ten Daily I           | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.752        | 0.000         | 0.000         | 0.012       | 0.012        | 8                 | 81.40        | 0.000         | 0.000         | 0.020       | 0.020        | 153               |
| Ten Daily II          | 11.28        | 0.000         | 0.000         | 0.014       | 0.014        | 15                | 9.477        | 0.000         | 0.000         | 0.019       | 0.019        | 25                | 0.759        | 0.000         | 0.000         | 0.006       | 0.006        | 4                 |
| Ten Daily III         | 12.90        | 0.000         | 0.000         | 0.014       | 0.014        | 16                | 174.4        | 0.000         | 0.000         | 0.026       | 0.026        | 466               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| <b>Monthly</b>        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| <b>Total</b>          |              |               |               |             |              | 291               |              |               |               |             |              | 5286              |              |               |               |             |              | 1531              |

Annual Sediment Load (Metric Tonnes) : 15120

**Daily Observed Sediment Datasheet for period : 2021-2022**

Station Name : Sarati ( AKPA0C2)

Local River : Nira

Division : Upper Krishna Divn, Pune

Sub-Division : Lower Bhima SD, Sholapur

| Day                   | Sep          |               |               |             |              |                   | Oct          |               |               |             |              |                   | Nov          |               |               |             |              |                   |
|-----------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                       | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 10.37        | 0.000         | 0.000         | 0.015       | 0.015        | 14                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 2                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 43.94        | 0.000         | 0.000         | 0.019       | 0.019        | 71                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 3                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 52.42        | 0.000         | 0.000         | 0.020       | 0.020        | 89                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 4                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 40.49        | 0.000         | 0.000         | 0.013       | 0.013        | 47                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 5                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 32.94        | 0.000         | 0.000         | 0.014       | 0.014        | 40                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 6                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 129.3        | 0.000         | 0.000         | 0.014       | 0.014        | 159               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 7                     | 7.434        | 0.000         | 0.000         | 0.024       | 0.024        | 16                | 172.8        | 0.000         | 0.000         | 0.033       | 0.033        | 499               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 8                     | 10.03        | 0.000         | 0.000         | 0.013       | 0.013        | 11                | 149.7        | 0.000         | 0.000         | 0.027       | 0.027        | 353               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 9                     | 16.37        | 0.000         | 0.000         | 0.008       | 0.008        | 11                | 75.68        | 0.000         | 0.000         | 0.043       | 0.043        | 280               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 10                    | 15.59        | 0.000         | 0.000         | 0.014       | 0.014        | 19                | 297.4        | 0.000         | 0.000         | 0.031       | 0.031        | 791               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 11                    | 12.73        | 0.000         | 0.000         | 0.011       | 0.011        | 13                | 282.4        | 0.000         | 0.000         | 0.037       | 0.037        | 908               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 12                    | 9.903        | 0.000         | 0.000         | 0.013       | 0.013        | 11                | 241.4        | 0.000         | 0.000         | 0.032       | 0.032        | 672               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 13                    | 8.440        | 0.000         | 0.000         | 0.011       | 0.011        | 8                 | 90.45        | 0.000         | 0.000         | 0.023       | 0.023        | 182               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 14                    | 8.442        | 0.000         | 0.000         | 0.014       | 0.014        | 10                | 81.73        | 0.000         | 0.000         | 0.029       | 0.029        | 207               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 15                    | 401.5        | 0.000         | 0.000         | 0.062       | 0.062        | 2137              | 81.29        | 0.000         | 0.000         | 0.022       | 0.022        | 155               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 16                    | 170.2        | 0.000         | 0.000         | 0.023       | 0.023        | 331               | 69.28        | 0.000         | 0.000         | 0.030       | 0.030        | 179               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 17                    | 49.16        | 0.000         | 0.000         | 0.024       | 0.024        | 103               | 57.53        | 0.000         | 0.000         | 0.020       | 0.020        | 100               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 18                    | 63.45        | 0.000         | 0.000         | 0.014       | 0.014        | 79                | 46.34        | 0.000         | 0.000         | 0.031       | 0.031        | 125               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 19                    | 53.68        | 0.000         | 0.000         | 0.020       | 0.020        | 92                | 42.78        | 0.000         | 0.000         | 0.019       | 0.019        | 69                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 20                    | 18.02        | 0.000         | 0.000         | 0.011       | 0.011        | 18                | 27.05        | 0.000         | 0.000         | 0.010       | 0.010        | 22                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 21                    | 11.87        | 0.000         | 0.000         | 0.014       | 0.014        | 14                | 15.14        | 0.000         | 0.000         | 0.011       | 0.011        | 14                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 22                    | 7.653        | 0.000         | 0.000         | 0.017       | 0.017        | 11                | 14.99        | 0.000         | 0.000         | 0.022       | 0.022        | 28                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 23                    | 7.662        | 0.000         | 0.000         | 0.012       | 0.012        | 8                 | 18.20        | 0.000         | 0.000         | 0.021       | 0.021        | 34                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 24                    | 7.891        | 0.000         | 0.000         | 0.009       | 0.009        | 6                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 25                    | 7.266        | 0.000         | 0.000         | 0.016       | 0.016        | 10                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 26                    | 14.07        | 0.000         | 0.000         | 0.014       | 0.014        | 17                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 27                    | 12.54        | 0.000         | 0.000         | 0.006       | 0.006        | 6                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 28                    | 17.01        | 0.000         | 0.000         | 0.004       | 0.004        | 6                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 29                    | 18.28        | 0.000         | 0.000         | 0.010       | 0.010        | 16                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 30                    | 16.53        | 0.000         | 0.000         | 0.014       | 0.014        | 20                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 31                    |              |               |               |             |              |                   | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |              |               |               |             |              |                   |
| <b>Ten Daily Mean</b> |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| <b>Ten Daily I</b>    | 4.942        | 0.000         | 0.000         | 0.015       | 0.015        | 14                | 100.5        | 0.000         | 0.000         | 0.023       | 0.023        | 234               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| <b>Ten Daily II</b>   | 79.55        | 0.000         | 0.000         | 0.020       | 0.020        | 280               | 102.0        | 0.000         | 0.000         | 0.025       | 0.025        | 262               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| <b>Ten Daily III</b>  | 12.08        | 0.000         | 0.000         | 0.012       | 0.012        | 12                | 4.393        | 0.000         | 0.000         | 0.018       | 0.018        | 25                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| <b>Monthly</b>        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| <b>Total</b>          |              |               |               |             |              | 2975              |              |               |               |             |              | 5037              |              |               |               |             |              | 0                 |



**Daily Observed Sediment Datasheet for period : 2021-2022**

Station Name : Sarati ( AKPA0C2)

Local River : Nira

Division : Upper Krishna Divn, Pune

Sub-Division : Lower Bhima SD, Sholapur

| Day            | Dec          |               |               |             |              |                   | Jan          |               |               |             |              |                   | Feb          |               |               |             |              |                   |
|----------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 2              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 3              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 4              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 5              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 6              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 7              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 8              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 9              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 10             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 11             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 12             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 13             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 14             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 15             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 16             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 17             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 18             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 19             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 20             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 21             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 22             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 23             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 24             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 25             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 26             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 27             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 28             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 29             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |              |               |               |             |              |                   |
| 30             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |              |               |               |             |              |                   |
| 31             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |              |               |               |             |              |                   |
| Ten Daily Mean |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Ten Daily I    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Ten Daily II   | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Ten Daily III  | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Monthly        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Total          |              |               |               |             |              | 0                 |              |               |               |             |              | 0                 |              |               |               |             |              | 0                 |

**Daily Observed Sediment Datasheet for period : 2021-2022**

Station Name : Sarati ( AKPA0C2)

Local River : Nira

Division : Upper Krishna Divn, Pune

Sub-Division : Lower Bhima SD, Sholapur

| Day                   | Mar          |               |               |             |              |                   | Apr          |               |               |             |              |                   | May          |               |               |             |              |                   |
|-----------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                       | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 2                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 3                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 4                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 5                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 6                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 7                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 8                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 9                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 10                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 11                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 12                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 13                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 14                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 15                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 16                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 17                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 18                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 19                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 20                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 21                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 22                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 23                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 24                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 25                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 26                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 27                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 28                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 29                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 30                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 31                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |              |               |               |             |              |                   | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| <u>Ten Daily Mean</u> |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Ten Daily I           | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Ten Daily II          | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Ten Daily III         | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| <u>Monthly</u>        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Total                 |              |               |               |             |              | 0                 |              |               |               |             |              | 0                 |              |               |               |             |              | 0                 |

# Annual Sediment Load for period : 1966-2022

Station Name : Sarati ( AKPA0C2)

Local River : Nira

Division : Upper Krishna Divn, Pune

Sub-Division : Lower Bhima SD, Sholapur

| Year      | Monsoon<br>(M.T.) | Non-Monsoon<br>(M.T.) | Annual Load<br>(M.T.) | Annual Run Off<br>(MCM) |
|-----------|-------------------|-----------------------|-----------------------|-------------------------|
| 1966-1967 | 1201698           | 8450                  | 1210148               | 913                     |
| 1967-1968 | 1658305           | 631484                | 2289789               | 1639                    |
| 1968-1969 | 1452918           | 2016                  | 1454934               | 785                     |
| 1969-1970 | 2790935           | 15871                 | 2806807               | 2277                    |
| 1970-1971 | 507355            | 66842                 | 574198                | 1183                    |
| 1971-1972 | 2829273           | 422                   | 2829695               | 1196                    |
| 1972-1973 | 271639            | 38                    | 271677                | 381                     |
| 1973-1974 | 1423007           | 26820                 | 1449826               | 1631                    |
| 1974-1975 | 2153226           | 849                   | 2154075               | 1462                    |
| 1975-1976 | 1126415           | 1020                  | 1127434               | 1852                    |
| 1976-1977 | 999171            | 4106                  | 1003276               | 2164                    |
| 1977-1978 | 1492709           | 29970                 | 1522679               | 1599                    |
| 1978-1979 | 514491            | 1760                  | 516251                | 1439                    |
| 1979-1980 | 2254236           | 2614                  | 2256850               | 2201                    |
| 1980-1981 | 855086            | 989                   | 856074                | 1945                    |
| 1981-1982 | 1564297           | 213                   | 1564509               | 2283                    |
| 1982-1983 | 277744            | 19                    | 277763                | 496                     |
| 1983-1984 | 1053660           | 556                   | 1054215               | 1278                    |
| 1984-1985 | 204779            | 48                    | 204827                | 931                     |
| 1985-1986 | 218356            | 0                     | 218356                | 414                     |
| 1986-1987 | 326226            | 7523                  | 333749                | 504                     |
| 1987-1988 | 326205            | 174                   | 326379                | 202                     |
| 1988-1989 | 774404            | 0                     | 774404                | 1725                    |
| 1989-1990 | 902203            | 0                     | 902203                | 863                     |
| 1990-1991 | 164573            | 94                    | 164668                | 1712                    |
| 1991-1992 | 163010            | 0                     | 163010                | 1656                    |
| 1992-1993 | 149376            | 0                     | 149376                | 806                     |
| 1993-1994 | 345418            | 1700                  | 347118                | 1198                    |
| 1994-1995 | 551449            | 39                    | 551487                | 3603                    |
| 1995-1996 | 7288              | 0                     | 7288                  | 192                     |
| 1996-1997 | 241650            | 0                     | 241650                | 1210                    |
| 1997-1998 | 54283             | 0                     | 54283                 | 1259                    |
| 1998-1999 | 61644             | 0                     | 61644                 | 1819                    |
| 1999-2000 | 14393             | 0                     | 14393                 | 960                     |
| 2000-2001 | 52                | 0                     | 52                    | 7                       |
| 2001-2002 | 5088              | 0                     | 5088                  | 133                     |
| 2002-2003 | 14756             | 0                     | 14756                 | 72                      |
| 2003-2004 | 190               | 3577                  | 3767                  | 14                      |
| 2004-2005 | 225640            | 0                     | 225640                | 991                     |
| 2005-2006 | 221359            | 0                     | 221359                | 2600                    |
| 2006-2007 | 0                 | 0                     | 0                     | 3068                    |
| 2007-2008 | 0                 | 0                     | 0                     | 1865                    |
| 2008-2009 | 0                 | 0                     | 0                     | 748                     |
| 2009-2010 | 0                 | 0                     | 0                     | 1394                    |
| 2010-2011 | 0                 | 0                     | 0                     | 1046                    |
| 2011-2012 | 0                 | 0                     | 0                     | 678                     |
| 2012-2013 | 0                 | 0                     | 0                     | 36                      |
| 2013-2014 | 31727             | 0                     | 31727                 | 1170                    |
| 2014-2015 | 9851              | 0                     | 9851                  | 274                     |
| 2015-2016 | 0                 | 0                     | 0                     | 0                       |
| 2016-2017 | 24162             | 0                     | 24162                 | 644                     |
| 2017-2018 | 57091             | 0                     | 57091                 | 618                     |
| 2018-2019 | 21530             | 0                     | 21530                 | 550                     |
| 2019-2020 | 206903            | 0                     | 206903                | 2878                    |
| 2020-2021 | 230149            | 0                     | 230149                | 2632                    |
| 2021-2022 | 15120             | 0                     | 15120                 | 529                     |

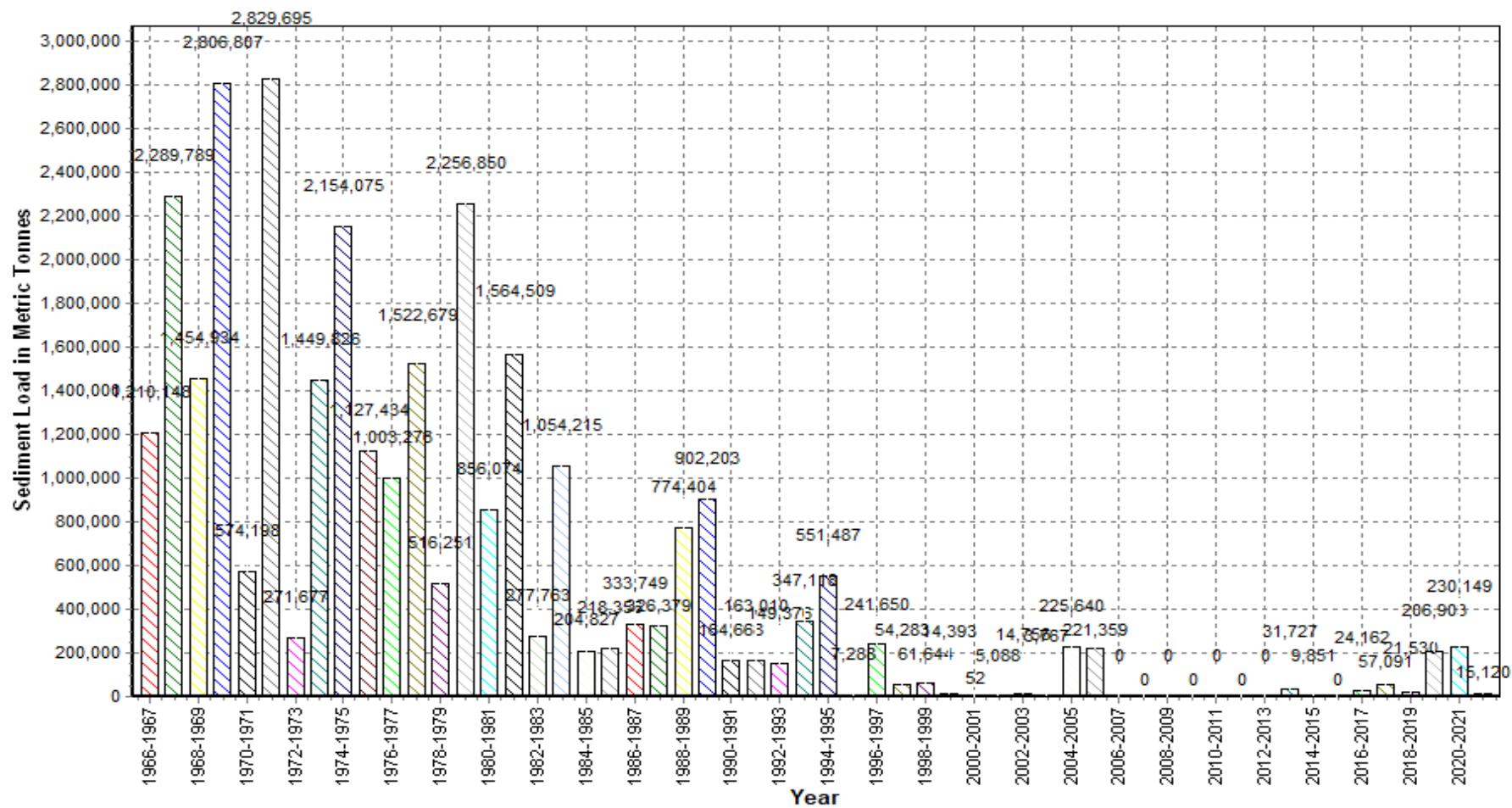
# Annual Sediment Load for the period: 1966-2022

Station Name : Sarati ( AKPA0C2)

Local River : Nira

Division : Upper Krishna Divn, Pune

Sub-Division : Lower Bhima SD, Sholapur



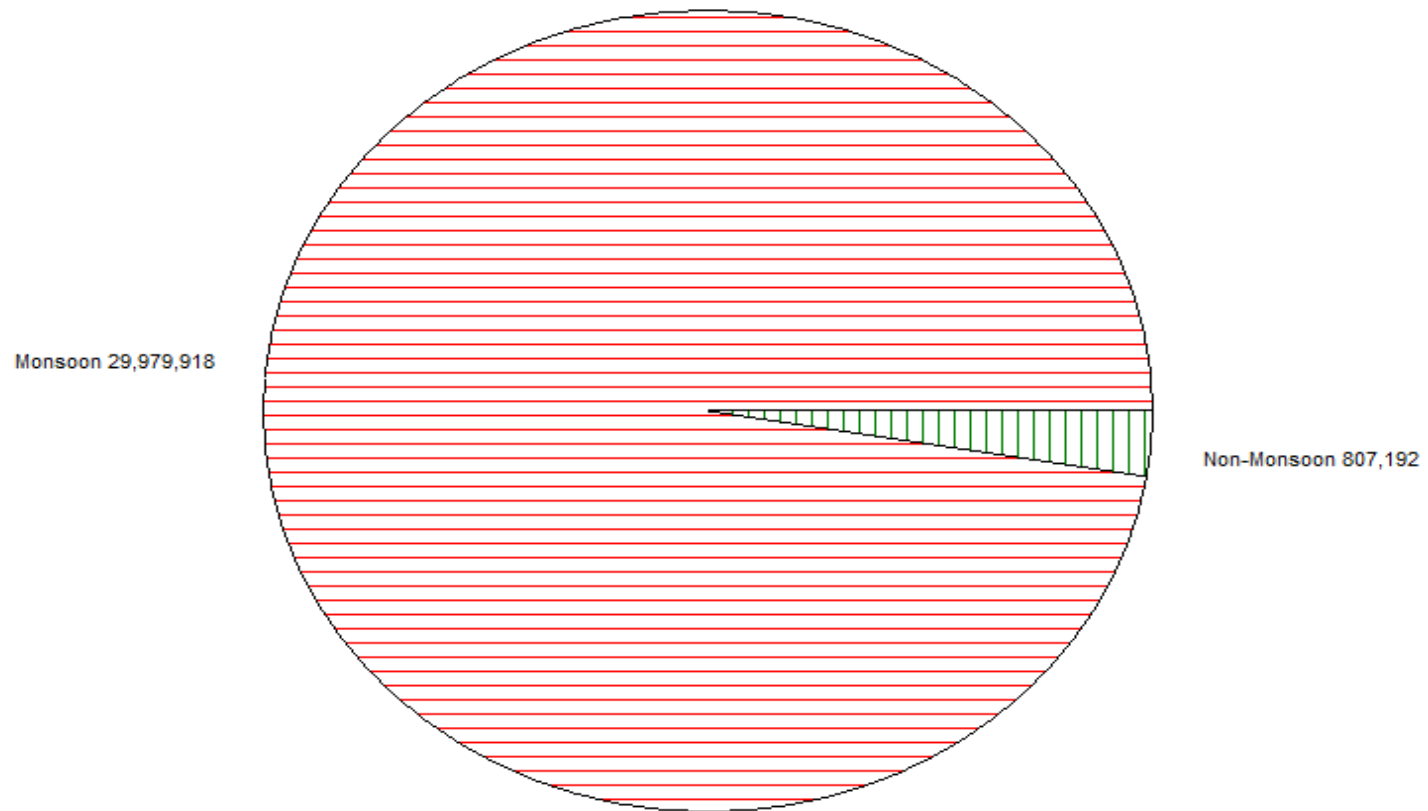
Seasonal Sediment Load for the period : 1966-2021

Station Name : Sarati ( AKPA0C2)

Local River : Nira

Division : Upper Krishna Divn, Pune

Sub-Division : Lower Bhima SD, Sholapur



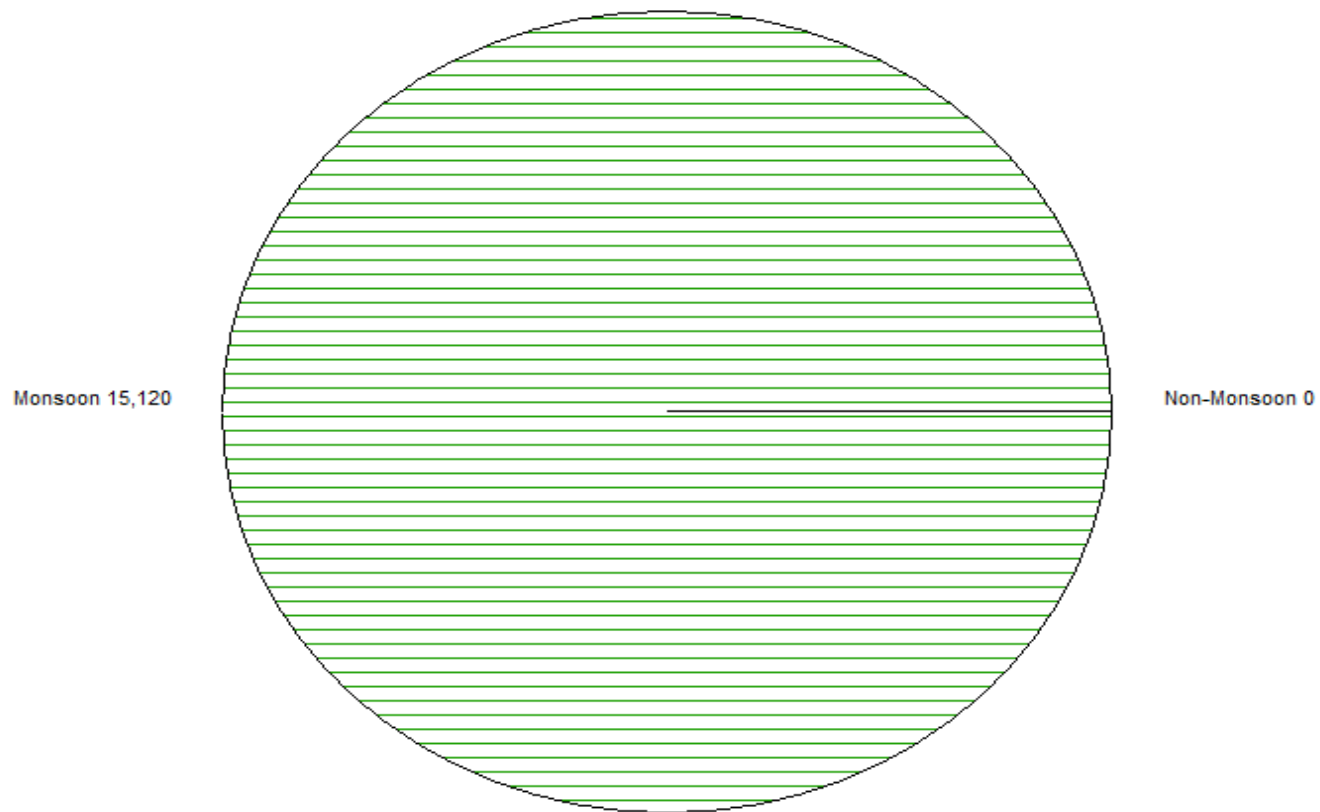
**Seasonal Sediment Load for the Year: 2021-2022**

**Station Name : Sarati ( AKPA0C2)**

**Local River : Nira**

**Division : Upper Krishna Divn, Pune**

**Sub-Division : Lower Bhima SD, Sholapur**



**BED MATERIAL ANALYSIS DATA FOR THE YEAR 2021-22**

SITE : NIRA AT SARATI CODE : AKPA0C2  
 MEASURING : UKDn CROSS SECTION : Station gauge line  
 AUTHORITY

**PreMonsoon Survey ( Date 16-05-2021 )**

Discharge Observed : 0 cumec Water edge RB : 0.00 m LB : 0.00 m  
 Area of section : 0.00 sq.m MeanVelocity : m/sec  
 Wetted perimeter : 0.00 m Hydraulic Mean Depth : m

| Sl. No | R.D. of sampling point in meters | R.L. of bed in meters | Mean diameter in mm | Remarks                        |
|--------|----------------------------------|-----------------------|---------------------|--------------------------------|
| 1      | 70                               | 469.713               | 19.04               |                                |
| 2      | 110                              | 466.868               | 11.16               | Av.mean dia "m" = <b>12.00</b> |
| 3      | 140                              | 466.718               | 5.82                |                                |

Silt factor  
 $f = 1.76 \sqrt{m}$   
 $= 6.10$

**Note :** i. Discharge observation was at station gauge line.  
 ii. River bed : Stagnant water.

**Monsoon Survey ( Date 21-08-2021 )**

Discharge Observed : 0 cumec Water edge RB : 189.79 m LB : 88.21 m  
 Area of section : 0.00 sq.m MeanVelocity : m/sec  
 Wetted perimeter : 0.00 m Hydraulic Mean Depth : m

| Sl. No | R.D. of sampling point in meters | R.L. of bed in meters | Mean diameter in mm | Remarks                        |
|--------|----------------------------------|-----------------------|---------------------|--------------------------------|
| 1      | 70                               | 469.728               | 14.80               |                                |
| 2      | 110                              | 466.873               | 15.57               | Av.mean dia "m" = <b>12.82</b> |
| 3      | 140                              | 466.708               | 8.08                |                                |

Silt factor  
 $f = 1.76 \sqrt{m}$   
 $= 6.30$

**Note :** i. Discharge observation was at station gauge line.  
 ii. River bed : Stagnant water.

**PostMonsoon Survey ( Date 24-12-2021 )**

Discharge Observed : 0 cumec Water edge RB : 211.00 m LB : 78.00 m  
 Area of section : 174.34 sq.m MeanVelocity : 0.0000 m/sec  
 Wetted perimeter : 133.11 m Hydraulic Mean Depth : 1.3097 m

| Sl. No | R.D. of sampling point in meters | R.L. of bed in meters | Mean diameter in mm | Remarks                        |
|--------|----------------------------------|-----------------------|---------------------|--------------------------------|
| 1      | 70                               | 469.665               | 27.28               |                                |
| 2      | 110                              | 466.873               | 15.74               | Av.mean dia "m" = <b>17.12</b> |
| 3      | 140                              | 467.173               | 8.36                |                                |

Silt factor  
 $f = 1.76 \sqrt{m}$   
 $= 7.28$

**Note :** i. Discharge observation was at station gauge line.  
 ii. River bed : Stagnant water.

## HISTORY SHEET

|                          |                                  |                   |                                 |
|--------------------------|----------------------------------|-------------------|---------------------------------|
|                          |                                  | <b>Water Year</b> | <b>: 2021-2022</b>              |
| <b>Site</b>              | <b>: Malkhed</b>                 | <b>Code</b>       | <b>: AKP10E1</b>                |
| State                    | : Karnataka                      | District          | Gulbarga                        |
| Basin                    | : Krishna                        | Independent River | : Krishna                       |
| Tributary                | : Bhima                          | Sub Tributary     | : Kagna                         |
| Sub-Sub Tributary        | : -                              | Local River       | : Kagna                         |
| Division                 | : Lower Krishna Divn., Hyderabad | Sub-Division      | : Middle Krishna SD 2 , Kurnool |
| Drainage Area            | : 7650 Sq. Km.                   | Bank              | : Left                          |
| Latitude                 | : 17°12'12"                      | Longitude         | : 77°09'23"                     |
| <b>Zero of Gauge (m)</b> | : 390 (m.s.l)                    | 15-08-1990        |                                 |
|                          | 390 (m.s.l)                      | 01-01-1999        | - 31-12-2005                    |
|                          | 390 (m.s.l)                      | 01-01-2006        | - 31-12-2020                    |
|                          | Opening Date                     | Closing Date      |                                 |
| Gauge                    | : 30-09-1989                     |                   |                                 |
| Discharge                | : 15-08-1990                     |                   |                                 |
| Sediment                 | : 08-09-1992                     |                   |                                 |
| Water Quality            | : 01-06-1992                     |                   |                                 |



**Daily Observed Sediment Datasheet for period : 2021-2022**

Station Name : Malkhed ( AKP10E1)

Local River : Kagna

Division : Lower Krishna Divn., Hyderabad

Sub-Division : Middle Krishna SD 2 , Kurnool

| Day            | Jun          |               |               |             |              |                   | Jul          |               |               |             |              |                   | Aug          |               |               |             |              |                   |
|----------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1              | 12.44        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 18.22        | 0.000         | 0.000         | 0.015       | 0.015        | 24                | 67.83        | 0.000         | 0.000         | 0.017       | 0.017        | 102               |
| 2              | 14.93        | 0.000         | 0.000         | 0.015       | 0.015        | 19                | 15.99        | 0.000         | 0.000         | 0.014       | 0.014        | 19                | 103.7        | 0.000         | 0.000         | 0.018       | 0.018        | 163               |
| 3              | 19.39        | 0.000         | 0.000         | 0.015       | 0.015        | 25                | 18.22        | 0.000         | 0.000         | 0.013       | 0.013        | 21                | 97.04        | 0.000         | 0.000         | 0.018       | 0.018        | 151               |
| 4              | 114.6        | 0.000         | 0.000         | 0.021       | 0.021        | 211               | 14.93        | 0.000         | 0.000         | 0.015       | 0.015        | 19                | 76.51        | 0.000         | 0.000         | 0.018       | 0.018        | 116               |
| 5              | 60.00        | 0.000         | 0.000         | 0.020       | 0.020        | 103               | 14.41        | 0.000         | 0.000         | 0.014       | 0.014        | 17                | 61.01        | 0.000         | 0.000         | 0.017       | 0.017        | 90                |
| 6              | 99.61        | 0.000         | 0.000         | 0.018       | 0.018        | 156               | 13.91        | 0.000         | 0.000         | 0.017       | 0.017        | 21                | 70.34        | 0.000         | 0.000         | 0.017       | 0.017        | 106               |
| 7              | 51.25        | 0.000         | 0.000         | 0.020       | 0.020        | 89                | 13.91        | 0.000         | 0.000         | 0.016       | 0.016        | 19                | 57.82        | 0.000         | 0.000         | 0.017       | 0.017        | 85                |
| 8              | 50.70        | 0.000         | 0.000         | 0.020       | 0.020        | 88                | 23.76        | 0.000         | 0.000         | 0.020       | 0.020        | 41                | 45.67        | 0.000         | 0.000         | 0.017       | 0.017        | 66                |
| 9              | 47.05        | 0.000         | 0.000         | 0.018       | 0.018        | 75                | 40.11        | 0.000         | 0.000         | 0.016       | 0.016        | 57                | 43.31        | 0.000         | 0.000         | 0.017       | 0.017        | 62                |
| 10             | 22.47        | 0.000         | 0.000         | 0.015       | 0.015        | 30                | 36.03        | 0.000         | 0.000         | 0.018       | 0.018        | 55                | 41.40        | 0.000         | 0.000         | 0.016       | 0.016        | 59                |
| 11             | 53.95        | 0.000         | 0.000         | 0.016       | 0.016        | 76                | 73.47        | 0.000         | 0.000         | 0.018       | 0.018        | 111               | 43.31        | 0.000         | 0.000         | 0.017       | 0.017        | 62                |
| 12             | 18.22        | 0.000         | 0.000         | 0.013       | 0.013        | 21                | 53.98        | 0.000         | 0.000         | 0.019       | 0.019        | 87                | 42.68        | 0.000         | 0.000         | 0.017       | 0.017        | 61                |
| 13             | 19.39        | 0.000         | 0.000         | 0.015       | 0.015        | 25                | 103.7        | 0.000         | 0.000         | 0.017       | 0.017        | 151               | 31.53        | 0.000         | 0.000         | 0.016       | 0.016        | 44                |
| 14             | 87.06        | 0.000         | 0.000         | 0.020       | 0.020        | 147               | 291.8        | 0.000         | 0.000         | 0.017       | 0.017        | 426               | 30.03        | 0.000         | 0.000         | 0.016       | 0.016        | 41                |
| 15             | 40.39        | 0.000         | 0.000         | 0.017       | 0.017        | 58                | 267.5        | 0.000         | 0.000         | 0.019       | 0.019        | 437               | 29.30        | 0.000         | 0.000         | 0.016       | 0.016        | 40                |
| 16             | 23.76        | 0.000         | 0.000         | 0.015       | 0.015        | 31                | 352.6        | 0.000         | 0.000         | 0.022       | 0.022        | 667               | 27.16        | 0.000         | 0.000         | 0.016       | 0.016        | 37                |
| 17             | 23.76        | 0.000         | 0.000         | 0.013       | 0.013        | 27                | 446.9        | 0.000         | 0.000         | 0.021       | 0.021        | 791               | 28.58        | 0.000         | 0.000         | 0.013       | 0.013        | 32                |
| 18             | 49.98        | 0.000         | 0.000         | 0.019       | 0.019        | 81                | 247.7        | 0.000         | 0.000         | 0.020       | 0.020        | 427               | 80.83        | 0.000         | 0.000         | 0.018       | 0.018        | 124               |
| 19             | 35.29        | 0.000         | 0.000         | 0.016       | 0.016        | 49                | 451.6        | 0.000         | 0.000         | 0.017       | 0.017        | 652               | 153.2        | 0.000         | 0.000         | 0.019       | 0.019        | 251               |
| 20             | 18.80        | 0.000         | 0.000         | 0.015       | 0.015        | 25                | 407.4        | 0.000         | 0.000         | 0.018       | 0.018        | 634               | 137.4        | 0.000         | 0.000         | 0.019       | 0.019        | 222               |
| 21             | 48.32        | 0.000         | 0.000         | 0.017       | 0.017        | 71                | 229.2        | 0.000         | 0.000         | 0.020       | 0.020        | 392               | 101.4        | 0.000         | 0.000         | 0.018       | 0.018        | 159               |
| 22             | 36.16        | 0.000         | 0.000         | 0.064       | 0.064        | 200               | 349.5        | 0.000         | 0.000         | 0.017       | 0.017        | 507               | 99.61        | 0.000         | 0.000         | 0.018       | 0.018        | 156               |
| 23             | 25.77        | 0.000         | 0.000         | 0.015       | 0.015        | 33                | 349.5        | 0.000         | 0.000         | 0.015       | 0.015        | 465               | 83.56        | 0.000         | 0.000         | 0.018       | 0.018        | 128               |
| 24             | 25.77        | 0.000         | 0.000         | 0.013       | 0.013        | 29                | 407.4        | 0.000         | 0.000         | 0.020       | 0.020        | 686               | 99.16        | 0.000         | 0.000         | 0.018       | 0.018        | 155               |
| 25             | 43.83        | 0.000         | 0.000         | 0.016       | 0.016        | 60                | 392.7        | 0.000         | 0.000         | 0.021       | 0.021        | 712               | 76.52        | 0.000         | 0.000         | 0.018       | 0.018        | 116               |
| 26             | 36.16        | 0.000         | 0.000         | 0.017       | 0.017        | 52                | 167.1        | 0.000         | 0.000         | 0.015       | 0.015        | 215               | 98.49        | 0.000         | 0.000         | 0.018       | 0.018        | 154               |
| 27             | 37.86        | 0.000         | 0.000         | 0.016       | 0.016        | 53                | 167.6        | 0.000         | 0.000         | 0.018       | 0.018        | 261               | 136.8        | 0.000         | 0.000         | 0.019       | 0.019        | 221               |
| 28             | 25.77        | 0.000         | 0.000         | 0.013       | 0.013        | 30                | 86.69        | 0.000         | 0.000         | 0.016       | 0.016        | 116               | 103.7        | 0.000         | 0.000         | 0.018       | 0.018        | 163               |
| 29             | 18.22        | 0.000         | 0.000         | 0.014       | 0.014        | 21                | 90.89        | 0.000         | 0.000         | 0.018       | 0.018        | 144               | 167.2        | 0.000         | 0.000         | 0.019       | 0.019        | 276               |
| 30             | 15.99        | 0.000         | 0.000         | 0.012       | 0.012        | 17                | 96.20        | 0.000         | 0.000         | 0.016       | 0.016        | 136               | 390.9        | 0.000         | 0.000         | 0.021       | 0.021        | 708               |
| 31             |              |               |               |             |              |                   | 73.72        | 0.000         | 0.000         | 0.019       | 0.019        | 123               | 706.8        | 0.000         | 0.000         | 0.022       | 0.022        | 1365              |
| Ten Daily Mean |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Ten Daily I    | 49.24        | 0.000         | 0.000         | 0.016       | 0.016        | 79                | 20.95        | 0.000         | 0.000         | 0.016       | 0.016        | 29                | 66.46        | 0.000         | 0.000         | 0.017       | 0.017        | 100               |
| Ten Daily II   | 37.06        | 0.000         | 0.000         | 0.016       | 0.016        | 54                | 269.7        | 0.000         | 0.000         | 0.019       | 0.019        | 438               | 60.40        | 0.000         | 0.000         | 0.016       | 0.016        | 91                |
| Ten Daily III  | 31.38        | 0.000         | 0.000         | 0.020       | 0.020        | 57                | 219.1        | 0.000         | 0.000         | 0.018       | 0.018        | 342               | 187.6        | 0.000         | 0.000         | 0.019       | 0.019        | 327               |
| Monthly        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Total          |              |               |               |             |              | 1901              |              |               |               |             |              | 8434              |              |               |               |             |              | 5514              |

**Daily Observed Sediment Datasheet for period : 2021-2022**

Station Name : Malkhed ( AKP10E1)

Local River : Kagna

Division : Lower Krishna Divn., Hyderabad

Sub-Division : Middle Krishna SD 2 , Kurnool

| Day            | Sep          |               |               |             |              |                   | Oct          |               |               |             |              |                   | Nov          |               |               |             |              |                   |
|----------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1              | 723.7        | 0.000         | 0.000         | 0.023       | 0.023        | 1419              | 316.6        | 0.000         | 0.000         | 0.020       | 0.020        | 558               | 37.86        | 0.000         | 0.000         | 0.016       | 0.016        | 54                |
| 2              | 374.8        | 0.000         | 0.000         | 0.021       | 0.021        | 687               | 269.2        | 0.000         | 0.000         | 0.020       | 0.020        | 469               | 37.86        | 0.000         | 0.000         | 0.016       | 0.016        | 53                |
| 3              | 181.9        | 0.000         | 0.000         | 0.021       | 0.021        | 328               | 561.2        | 0.000         | 0.000         | 0.022       | 0.022        | 1057              | 37.86        | 0.000         | 0.000         | 0.016       | 0.016        | 53                |
| 4              | 167.6        | 0.000         | 0.000         | 0.019       | 0.019        | 281               | 316.6        | 0.000         | 0.000         | 0.019       | 0.019        | 517               | 37.04        | 0.000         | 0.000         | 0.016       | 0.016        | 52                |
| 5              | 1056         | 0.000         | 0.000         | 0.023       | 0.023        | 2129              | 153.2        | 0.000         | 0.000         | 0.018       | 0.018        | 232               | 36.22        | 0.000         | 0.000         | 0.016       | 0.016        | 51                |
| 6              | 1375         | 0.000         | 0.000         | 0.030       | 0.030        | 3504              | 172.0        | 0.000         | 0.000         | 0.018       | 0.018        | 260               | 36.22        | 0.000         | 0.000         | 0.016       | 0.016        | 51                |
| 7              | 928.5        | 0.000         | 0.000         | 0.028       | 0.028        | 2278              | 136.8        | 0.000         | 0.000         | 0.018       | 0.018        | 212               | 37.86        | 0.000         | 0.000         | 0.016       | 0.016        | 53                |
| 8              | 915.5        | 0.000         | 0.000         | 0.029       | 0.029        | 2262              | 113.6        | 0.000         | 0.000         | 0.016       | 0.016        | 160               | 50.32        | 0.000         | 0.000         | 0.018       | 0.018        | 78                |
| 9              | 451.6        | 0.000         | 0.000         | 0.024       | 0.024        | 929               | 167.6        | 0.000         | 0.000         | 0.018       | 0.018        | 255               | 50.32        | 0.000         | 0.000         | 0.017       | 0.017        | 73                |
| 10             | 349.0        | 0.000         | 0.000         | 0.021       | 0.021        | 625               | 730.4        | 0.000         | 0.000         | 0.022       | 0.022        | 1415              | 50.32        | 0.000         | 0.000         | 0.017       | 0.017        | 73                |
| 11             | 267.5        | 0.000         | 0.000         | 0.021       | 0.021        | 481               | 407.4        | 0.000         | 0.000         | 0.023       | 0.023        | 796               | 50.32        | 0.000         | 0.000         | 0.017       | 0.017        | 73                |
| 12             | 190.4        | 0.000         | 0.000         | 0.019       | 0.019        | 319               | 290.9        | 0.000         | 0.000         | 0.021       | 0.021        | 533               | 34.62        | 0.000         | 0.000         | 0.016       | 0.016        | 48                |
| 13             | 153.2        | 0.000         | 0.000         | 0.019       | 0.019        | 257               | 240.6        | 0.000         | 0.000         | 0.019       | 0.019        | 387               | 31.53        | 0.000         | 0.000         | 0.016       | 0.016        | 44                |
| 14             | 181.9        | 0.000         | 0.000         | 0.019       | 0.019        | 302               | 131.4        | 0.000         | 0.000         | 0.018       | 0.018        | 204               | 36.22        | 0.000         | 0.000         | 0.016       | 0.016        | 51                |
| 15             | 188.0        | 0.000         | 0.000         | 0.208       | 0.208        | 3378              | 112.0        | 0.000         | 0.000         | 0.018       | 0.018        | 177               | 50.32        | 0.000         | 0.000         | 0.016       | 0.016        | 71                |
| 16             | 153.2        | 0.000         | 0.000         | 0.018       | 0.018        | 236               | 103.7        | 0.000         | 0.000         | 0.018       | 0.018        | 163               | 36.22        | 0.000         | 0.000         | 0.016       | 0.016        | 51                |
| 17             | 149.7        | 0.000         | 0.000         | 0.016       | 0.016        | 211               | 53.22        | 0.000         | 0.000         | 0.017       | 0.017        | 78                | 34.62        | 0.000         | 0.000         | 0.016       | 0.016        | 48                |
| 18             | 130.1        | 0.000         | 0.000         | 0.017       | 0.017        | 185               | 153.2        | 0.000         | 0.000         | 0.018       | 0.018        | 232               | 34.62        | 0.000         | 0.000         | 0.016       | 0.016        | 48                |
| 19             | 99.61        | 0.000         | 0.000         | 0.018       | 0.018        | 156               | 99.16        | 0.000         | 0.000         | 0.018       | 0.018        | 155               | 34.62        | 0.000         | 0.000         | 0.016       | 0.016        | 48                |
| 20             | 103.7        | 0.000         | 0.000         | 0.017       | 0.017        | 148               | 83.85        | 0.000         | 0.000         | 0.020       | 0.020        | 143               | 36.22        | 0.000         | 0.000         | 0.016       | 0.016        | 51                |
| 21             | 103.7        | 0.000         | 0.000         | 0.017       | 0.017        | 148               | 86.69        | 0.000         | 0.000         | 0.016       | 0.016        | 118               | 41.24        | 0.000         | 0.000         | 0.016       | 0.016        | 59                |
| 22             | 167.6        | 0.000         | 0.000         | 0.019       | 0.019        | 278               | 86.69        | 0.000         | 0.000         | 0.016       | 0.016        | 118               | 36.22        | 0.000         | 0.000         | 0.016       | 0.016        | 51                |
| 23             | 390.9        | 0.000         | 0.000         | 0.022       | 0.022        | 733               | 91.61        | 0.000         | 0.000         | 0.017       | 0.017        | 136               | 37.86        | 0.000         | 0.000         | 0.016       | 0.016        | 53                |
| 24             | 407.6        | 0.000         | 0.000         | 0.023       | 0.023        | 814               | 110.6        | 0.000         | 0.000         | 0.018       | 0.018        | 175               | 50.32        | 0.000         | 0.000         | 0.017       | 0.017        | 73                |
| 25             | 409.8        | 0.000         | 0.000         | 0.022       | 0.022        | 761               | 57.62        | 0.000         | 0.000         | 0.016       | 0.016        | 80                | 51.28        | 0.000         | 0.000         | 0.017       | 0.017        | 75                |
| 26             | 596.6        | 0.000         | 0.000         | 0.022       | 0.022        | 1131              | 130.8        | 0.000         | 0.000         | 0.017       | 0.017        | 192               | 51.28        | 0.000         | 0.000         | 0.017       | 0.017        | 75                |
| 27             | 722.9        | 0.000         | 0.000         | 0.024       | 0.024        | 1474              | 86.69        | 0.000         | 0.000         | 0.016       | 0.016        | 121               | 51.28        | 0.000         | 0.000         | 0.017       | 0.017        | 75                |
| 28             | 958.3        | 0.000         | 0.000         | 0.026       | 0.026        | 2136              | 55.02        | 0.000         | 0.000         | 0.020       | 0.020        | 95                | 51.28        | 0.000         | 0.000         | 0.017       | 0.017        | 75                |
| 29             | 1375         | 0.000         | 0.000         | 0.027       | 0.027        | 3183              | 52.17        | 0.000         | 0.000         | 0.016       | 0.016        | 74                | 54.21        | 0.000         | 0.000         | 0.020       | 0.020        | 91                |
| 30             | 466.6        | 0.000         | 0.000         | 0.023       | 0.023        | 935               | 51.35        | 0.000         | 0.000         | 0.016       | 0.016        | 73                | 48.44        | 0.000         | 0.000         | 0.017       | 0.017        | 70                |
| 31             |              |               |               |             |              |                   | 49.38        | 0.000         | 0.000         | 0.017       | 0.017        | 72                |              |               |               |             |              |                   |
| Ten Daily Mean |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Ten Daily I    | 652.3        | 0.000         | 0.000         | 0.024       | 0.024        | 1444              | 293.7        | 0.000         | 0.000         | 0.019       | 0.019        | 513               | 41.19        | 0.000         | 0.000         | 0.017       | 0.017        | 59                |
| Ten Daily II   | 161.7        | 0.000         | 0.000         | 0.037       | 0.037        | 567               | 167.5        | 0.000         | 0.000         | 0.019       | 0.019        | 287               | 37.93        | 0.000         | 0.000         | 0.016       | 0.016        | 53                |
| Ten Daily III  | 559.9        | 0.000         | 0.000         | 0.022       | 0.022        | 1159              | 78.05        | 0.000         | 0.000         | 0.017       | 0.017        | 114               | 47.34        | 0.000         | 0.000         | 0.017       | 0.017        | 70                |
| Monthly        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Total          |              |               |               |             |              | 31707             |              |               |               |             |              | 9254              |              |               |               |             |              | 1821              |

**Daily Observed Sediment Datasheet for period : 2021-2022**

Station Name : Malkhed ( AKP10E1)

Local River : Kagna

Division : Lower Krishna Divn., Hyderabad

Sub-Division : Middle Krishna SD 2 , Kurnool

| Day            | Dec          |               |               |             |              |                   | Jan          |               |               |             |              |                   | Feb          |               |               |             |              |                   |
|----------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1              | 48.44        | 0.000         | 0.000         | 0.019       | 0.019        | 79                | 14.93        | 0.000         | 0.000         | 0.011       | 0.011        | 14                | 15.46        | 0.000         | 0.000         | 0.011       | 0.011        | 15                |
| 2              | 48.44        | 0.000         | 0.000         | 0.019       | 0.019        | 79                | 14.93        | 0.000         | 0.000         | 0.011       | 0.011        | 14                | 15.46        | 0.000         | 0.000         | 0.011       | 0.011        | 15                |
| 3              | 48.44        | 0.000         | 0.000         | 0.019       | 0.019        | 79                | 14.93        | 0.000         | 0.000         | 0.011       | 0.011        | 14                | 15.46        | 0.000         | 0.000         | 0.011       | 0.011        | 15                |
| 4              | 48.44        | 0.000         | 0.000         | 0.019       | 0.019        | 79                | 14.93        | 0.000         | 0.000         | 0.011       | 0.011        | 14                | 17.09        | 0.000         | 0.000         | 0.011       | 0.011        | 17                |
| 5              | 45.67        | 0.000         | 0.000         | 0.018       | 0.018        | 72                | 21.21        | 0.000         | 0.000         | 0.013       | 0.013        | 23                | 17.09        | 0.000         | 0.000         | 0.011       | 0.011        | 17                |
| 6              | 41.24        | 0.000         | 0.000         | 0.016       | 0.016        | 58                | 15.46        | 0.000         | 0.000         | 0.011       | 0.011        | 15                | 17.09        | 0.000         | 0.000         | 0.011       | 0.011        | 17                |
| 7              | 39.53        | 0.000         | 0.000         | 0.017       | 0.017        | 58                | 15.46        | 0.000         | 0.000         | 0.011       | 0.011        | 15                | 17.09        | 0.000         | 0.000         | 0.011       | 0.011        | 17                |
| 8              | 39.53        | 0.000         | 0.000         | 0.017       | 0.017        | 58                | 13.91        | 0.000         | 0.000         | 0.010       | 0.010        | 12                | 17.09        | 0.000         | 0.000         | 0.011       | 0.011        | 17                |
| 9              | 28.58        | 0.000         | 0.000         | 0.015       | 0.015        | 36                | 13.91        | 0.000         | 0.000         | 0.010       | 0.010        | 12                | 17.09        | 0.000         | 0.000         | 0.011       | 0.011        | 17                |
| 10             | 22.47        | 0.000         | 0.000         | 0.013       | 0.013        | 25                | 14.41        | 0.000         | 0.000         | 0.011       | 0.011        | 14                | 17.09        | 0.000         | 0.000         | 0.011       | 0.011        | 17                |
| 11             | 21.21        | 0.000         | 0.000         | 0.013       | 0.013        | 23                | 14.41        | 0.000         | 0.000         | 0.011       | 0.011        | 13                | 17.09        | 0.000         | 0.000         | 0.011       | 0.011        | 17                |
| 12             | 21.21        | 0.000         | 0.000         | 0.013       | 0.013        | 23                | 93.02        | 0.000         | 0.000         | 0.026       | 0.026        | 208               | 17.09        | 0.000         | 0.000         | 0.011       | 0.011        | 17                |
| 13             | 21.83        | 0.000         | 0.000         | 0.013       | 0.013        | 25                | 38.69        | 0.000         | 0.000         | 0.017       | 0.017        | 57                | 17.09        | 0.000         | 0.000         | 0.011       | 0.011        | 17                |
| 14             | 21.83        | 0.000         | 0.000         | 0.013       | 0.013        | 24                | 23.76        | 0.000         | 0.000         | 0.013       | 0.013        | 27                | 15.99        | 0.000         | 0.000         | 0.011       | 0.011        | 15                |
| 15             | 22.47        | 0.000         | 0.000         | 0.013       | 0.013        | 25                | 14.41        | 0.000         | 0.000         | 0.011       | 0.011        | 13                | 15.99        | 0.000         | 0.000         | 0.011       | 0.011        | 15                |
| 16             | 22.47        | 0.000         | 0.000         | 0.013       | 0.013        | 25                | 14.41        | 0.000         | 0.000         | 0.011       | 0.011        | 13                | 15.99        | 0.000         | 0.000         | 0.011       | 0.011        | 15                |
| 17             | 12.44        | 0.000         | 0.000         | 0.010       | 0.010        | 11                | 14.41        | 0.000         | 0.000         | 0.010       | 0.010        | 13                | 15.99        | 0.000         | 0.000         | 0.011       | 0.011        | 15                |
| 18             | 12.44        | 0.000         | 0.000         | 0.010       | 0.010        | 11                | 13.91        | 0.000         | 0.000         | 0.010       | 0.010        | 12                | 15.99        | 0.000         | 0.000         | 0.011       | 0.011        | 15                |
| 19             | 13.91        | 0.000         | 0.000         | 0.010       | 0.010        | 12                | 13.91        | 0.000         | 0.000         | 0.010       | 0.010        | 12                | 15.99        | 0.000         | 0.000         | 0.011       | 0.011        | 15                |
| 20             | 14.93        | 0.000         | 0.000         | 0.012       | 0.012        | 16                | 21.21        | 0.000         | 0.000         | 0.013       | 0.013        | 23                | 15.99        | 0.000         | 0.000         | 0.011       | 0.011        | 15                |
| 21             | 14.93        | 0.000         | 0.000         | 0.011       | 0.011        | 14                | 18.80        | 0.000         | 0.000         | 0.012       | 0.012        | 19                | 15.99        | 0.000         | 0.000         | 0.011       | 0.011        | 15                |
| 22             | 14.93        | 0.000         | 0.000         | 0.011       | 0.011        | 14                | 18.80        | 0.000         | 0.000         | 0.012       | 0.012        | 19                | 15.99        | 0.000         | 0.000         | 0.011       | 0.011        | 15                |
| 23             | 14.93        | 0.000         | 0.000         | 0.011       | 0.011        | 14                | 18.80        | 0.000         | 0.000         | 0.012       | 0.012        | 19                | 14.93        | 0.000         | 0.000         | 0.011       | 0.011        | 14                |
| 24             | 14.93        | 0.000         | 0.000         | 0.011       | 0.011        | 14                | 18.80        | 0.000         | 0.000         | 0.016       | 0.016        | 26                | 14.93        | 0.000         | 0.000         | 0.011       | 0.011        | 14                |
| 25             | 15.99        | 0.000         | 0.000         | 0.011       | 0.011        | 15                | 18.80        | 0.000         | 0.000         | 0.012       | 0.012        | 19                | 14.93        | 0.000         | 0.000         | 0.011       | 0.011        | 14                |
| 26             | 20.59        | 0.000         | 0.000         | 0.012       | 0.012        | 22                | 18.80        | 0.000         | 0.000         | 0.012       | 0.012        | 19                | 14.93        | 0.000         | 0.000         | 0.011       | 0.011        | 14                |
| 27             | 21.83        | 0.000         | 0.000         | 0.013       | 0.013        | 25                | 18.80        | 0.000         | 0.000         | 0.012       | 0.012        | 19                | 14.93        | 0.000         | 0.000         | 0.011       | 0.011        | 14                |
| 28             | 21.21        | 0.000         | 0.000         | 0.013       | 0.013        | 23                | 15.46        | 0.000         | 0.000         | 0.011       | 0.011        | 15                | 14.93        | 0.000         | 0.000         | 0.011       | 0.011        | 14                |
| 29             | 21.21        | 0.000         | 0.000         | 0.013       | 0.013        | 23                | 15.46        | 0.000         | 0.000         | 0.011       | 0.011        | 15                |              |               |               |             |              |                   |
| 30             | 21.21        | 0.000         | 0.000         | 0.013       | 0.013        | 23                | 15.46        | 0.000         | 0.000         | 0.011       | 0.011        | 15                |              |               |               |             |              |                   |
| 31             | 14.93        | 0.000         | 0.000         | 0.011       | 0.011        | 14                | 15.46        | 0.000         | 0.000         | 0.010       | 0.010        | 14                |              |               |               |             |              |                   |
| Ten Daily Mean |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Ten Daily I    | 41.08        | 0.000         | 0.000         | 0.017       | 0.017        | 63                | 15.41        | 0.000         | 0.000         | 0.011       | 0.011        | 15                | 16.60        | 0.000         | 0.000         | 0.011       | 0.011        | 16                |
| Ten Daily II   | 18.47        | 0.000         | 0.000         | 0.012       | 0.012        | 20                | 26.22        | 0.000         | 0.000         | 0.013       | 0.013        | 39                | 16.32        | 0.000         | 0.000         | 0.011       | 0.011        | 16                |
| Ten Daily III  | 17.88        | 0.000         | 0.000         | 0.012       | 0.012        | 18                | 17.58        | 0.000         | 0.000         | 0.012       | 0.012        | 18                | 15.20        | 0.000         | 0.000         | 0.011       | 0.011        | 14                |
| Monthly        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Total          |              |               |               |             |              | 1021              |              |               |               |             |              | 738               |              |               |               |             |              | 432               |

**Daily Observed Sediment Datasheet for period : 2021-2022**

Station Name : Malkhed ( AKP10E1)

Local River : Kagna

Division : Lower Krishna Divn., Hyderabad

Sub-Division : Middle Krishna SD 2 , Kurnool

| Day            | Mar          |               |               |             |              |                   | Apr          |               |               |             |              |                   | May          |               |               |             |              |                   |
|----------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1              | 14.93        | 0.000         | 0.000         | 0.011       | 0.011        | 14                | 12.44        | 0.000         | 0.000         | 0.010       | 0.010        | 11                | 11.97        | 0.000         | 0.000         | 0.010       | 0.010        | 10                |
| 2              | 15.46        | 0.000         | 0.000         | 0.011       | 0.011        | 15                | 12.44        | 0.000         | 0.000         | 0.010       | 0.010        | 11                | 11.97        | 0.000         | 0.000         | 0.009       | 0.009        | 9                 |
| 3              | 15.46        | 0.000         | 0.000         | 0.011       | 0.011        | 15                | 12.44        | 0.000         | 0.000         | 0.010       | 0.010        | 11                | 11.97        | 0.000         | 0.000         | 0.010       | 0.010        | 10                |
| 4              | 15.46        | 0.000         | 0.000         | 0.011       | 0.011        | 15                | 12.44        | 0.000         | 0.000         | 0.011       | 0.011        | 12                | 11.97        | 0.000         | 0.000         | 0.010       | 0.010        | 10                |
| 5              | 15.46        | 0.000         | 0.000         | 0.011       | 0.011        | 15                | 11.50        | 0.000         | 0.000         | 0.009       | 0.009        | 9                 | 10.61        | 0.000         | 0.000         | 0.009       | 0.009        | 8                 |
| 6              | 15.46        | 0.000         | 0.000         | 0.011       | 0.011        | 15                | 11.50        | 0.000         | 0.000         | 0.009       | 0.009        | 9                 | 10.61        | 0.000         | 0.000         | 0.009       | 0.009        | 8                 |
| 7              | 15.46        | 0.000         | 0.000         | 0.010       | 0.010        | 14                | 11.50        | 0.000         | 0.000         | 0.009       | 0.009        | 9                 | 10.17        | 0.000         | 0.000         | 0.009       | 0.009        | 8                 |
| 8              | 14.93        | 0.000         | 0.000         | 0.011       | 0.011        | 14                | 11.50        | 0.000         | 0.000         | 0.009       | 0.009        | 9                 | 10.17        | 0.000         | 0.000         | 0.009       | 0.009        | 8                 |
| 9              | 14.93        | 0.000         | 0.000         | 0.011       | 0.011        | 14                | 11.50        | 0.000         | 0.000         | 0.009       | 0.009        | 9                 | 10.17        | 0.000         | 0.000         | 0.009       | 0.009        | 8                 |
| 10             | 14.93        | 0.000         | 0.000         | 0.011       | 0.011        | 14                | 11.50        | 0.000         | 0.000         | 0.009       | 0.009        | 9                 | 10.17        | 0.000         | 0.000         | 0.009       | 0.009        | 8                 |
| 11             | 14.93        | 0.000         | 0.000         | 0.011       | 0.011        | 14                | 11.50        | 0.000         | 0.000         | 0.010       | 0.010        | 10                | 10.17        | 0.000         | 0.000         | 0.009       | 0.009        | 8                 |
| 12             | 13.91        | 0.000         | 0.000         | 0.010       | 0.010        | 12                | 11.50        | 0.000         | 0.000         | 0.009       | 0.009        | 9                 | 10.17        | 0.000         | 0.000         | 0.009       | 0.009        | 8                 |
| 13             | 13.91        | 0.000         | 0.000         | 0.010       | 0.010        | 12                | 11.50        | 0.000         | 0.000         | 0.009       | 0.009        | 9                 | 10.17        | 0.000         | 0.000         | 0.009       | 0.009        | 8                 |
| 14             | 13.91        | 0.000         | 0.000         | 0.010       | 0.010        | 12                | 11.50        | 0.000         | 0.000         | 0.009       | 0.009        | 9                 | 10.17        | 0.000         | 0.000         | 0.009       | 0.009        | 8                 |
| 15             | 13.91        | 0.000         | 0.000         | 0.010       | 0.010        | 12                | 11.50        | 0.000         | 0.000         | 0.009       | 0.009        | 9                 | 10.61        | 0.000         | 0.000         | 0.009       | 0.009        | 8                 |
| 16             | 13.91        | 0.000         | 0.000         | 0.010       | 0.010        | 12                | 11.50        | 0.000         | 0.000         | 0.009       | 0.009        | 9                 | 10.61        | 0.000         | 0.000         | 0.009       | 0.009        | 8                 |
| 17             | 13.91        | 0.000         | 0.000         | 0.010       | 0.010        | 12                | 11.50        | 0.000         | 0.000         | 0.009       | 0.009        | 9                 | 11.05        | 0.000         | 0.000         | 0.010       | 0.010        | 10                |
| 18             | 13.91        | 0.000         | 0.000         | 0.010       | 0.010        | 12                | 11.50        | 0.000         | 0.000         | 0.008       | 0.008        | 8                 | 11.05        | 0.000         | 0.000         | 0.009       | 0.009        | 9                 |
| 19             | 13.91        | 0.000         | 0.000         | 0.010       | 0.010        | 12                | 11.50        | 0.000         | 0.000         | 0.009       | 0.009        | 9                 | 11.05        | 0.000         | 0.000         | 0.009       | 0.009        | 9                 |
| 20             | 13.91        | 0.000         | 0.000         | 0.010       | 0.010        | 12                | 11.50        | 0.000         | 0.000         | 0.009       | 0.009        | 9                 | 11.05        | 0.000         | 0.000         | 0.009       | 0.009        | 9                 |
| 21             | 12.44        | 0.000         | 0.000         | 0.012       | 0.012        | 13                | 11.05        | 0.000         | 0.000         | 0.009       | 0.009        | 9                 | 11.97        | 0.000         | 0.000         | 0.010       | 0.010        | 10                |
| 22             | 12.44        | 0.000         | 0.000         | 0.010       | 0.010        | 11                | 11.05        | 0.000         | 0.000         | 0.009       | 0.009        | 9                 | 54.21        | 0.000         | 0.000         | 0.020       | 0.020        | 93                |
| 23             | 12.44        | 0.000         | 0.000         | 0.010       | 0.010        | 11                | 11.05        | 0.000         | 0.000         | 0.009       | 0.009        | 9                 | 46.58        | 0.000         | 0.000         | 0.019       | 0.019        | 75                |
| 24             | 12.44        | 0.000         | 0.000         | 0.010       | 0.010        | 11                | 11.05        | 0.000         | 0.000         | 0.009       | 0.009        | 9                 | 36.22        | 0.000         | 0.000         | 0.016       | 0.016        | 51                |
| 25             | 12.44        | 0.000         | 0.000         | 0.010       | 0.010        | 11                | 11.05        | 0.000         | 0.000         | 0.007       | 0.007        | 6                 | 17.09        | 0.000         | 0.000         | 0.011       | 0.011        | 17                |
| 26             | 12.44        | 0.000         | 0.000         | 0.010       | 0.010        | 11                | 11.97        | 0.000         | 0.000         | 0.010       | 0.010        | 10                | 42.11        | 0.000         | 0.000         | 0.018       | 0.018        | 64                |
| 27             | 12.44        | 0.000         | 0.000         | 0.010       | 0.010        | 11                | 11.97        | 0.000         | 0.000         | 0.010       | 0.010        | 10                | 27.86        | 0.000         | 0.000         | 0.014       | 0.014        | 35                |
| 28             | 12.44        | 0.000         | 0.000         | 0.011       | 0.011        | 12                | 11.97        | 0.000         | 0.000         | 0.010       | 0.010        | 10                | 17.09        | 0.000         | 0.000         | 0.011       | 0.011        | 17                |
| 29             | 12.44        | 0.000         | 0.000         | 0.010       | 0.010        | 11                | 11.97        | 0.000         | 0.000         | 0.010       | 0.010        | 10                | 67.83        | 0.000         | 0.000         | 0.022       | 0.022        | 130               |
| 30             | 12.44        | 0.000         | 0.000         | 0.010       | 0.010        | 11                | 11.97        | 0.000         | 0.000         | 0.010       | 0.010        | 10                | 36.22        | 0.000         | 0.000         | 0.016       | 0.016        | 51                |
| 31             | 12.44        | 0.000         | 0.000         | 0.010       | 0.010        | 11                |              |               |               |             |              |                   | 11.97        | 0.000         | 0.000         | 0.010       | 0.010        | 10                |
| Ten Daily Mean |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Ten Daily I    | 15.25        | 0.000         | 0.000         | 0.011       | 0.011        | 14                | 11.88        | 0.000         | 0.000         | 0.010       | 0.010        | 10                | 10.98        | 0.000         | 0.000         | 0.009       | 0.009        | 9                 |
| Ten Daily II   | 14.01        | 0.000         | 0.000         | 0.010       | 0.010        | 12                | 11.50        | 0.000         | 0.000         | 0.009       | 0.009        | 9                 | 10.61        | 0.000         | 0.000         | 0.009       | 0.009        | 8                 |
| Ten Daily III  | 12.44        | 0.000         | 0.000         | 0.010       | 0.010        | 11                | 11.51        | 0.000         | 0.000         | 0.009       | 0.009        | 9                 | 33.56        | 0.000         | 0.000         | 0.015       | 0.015        | 50                |
| Monthly        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Total          |              |               |               |             |              | 385               |              |               |               |             |              | 283               |              |               |               |             |              | 724               |

**Annual Sediment Load for period : 1993-2022**

**Station Name : Malkhed ( AKP10E1)**

**Division : Lower Krishna Divn., Hyderabad**

**Local River : Kagna**

**Sub-Division : Middle Krishna SD 2 , Kurnool**

| Year      | Monsoon<br>(M.T.) | Non-Monsoon<br>(M.T.) | Annual Load<br>(M.T.) | Annual Run Off<br>(MCM) |
|-----------|-------------------|-----------------------|-----------------------|-------------------------|
| 1993-1994 | 77048             | 44                    | 77092                 | 442                     |
| 1994-1995 | 9453              | 7                     | 9459                  | 102                     |
| 1995-1996 | 840221            | 500                   | 840721                | 1037                    |
| 1996-1997 | 344904            | 107                   | 345011                | 1109                    |
| 1997-1998 | 47481             | 134                   | 47614                 | 142                     |
| 1998-1999 | 1107489           | 1143                  | 1108631               | 2919                    |
| 1999-2000 | 73424             | 490                   | 73914                 | 472                     |
| 2000-2001 | 350123            | 565                   | 350688                | 1006                    |
| 2001-2002 | 318291            | 613                   | 318904                | 584                     |
| 2002-2003 | 117886            | 202                   | 118088                | 228                     |
| 2003-2004 | 23545             | 341                   | 23886                 | 253                     |
| 2004-2005 | 15204             | 9                     | 15213                 | 177                     |
| 2005-2006 | 909264            | 712                   | 909976                | 1092                    |
| 2006-2007 | 3440              | 264                   | 3703                  | 95                      |
| 2007-2008 | 38639             | 11070                 | 49709                 | 921                     |
| 2008-2009 | 98183             | 941                   | 99124                 | 919                     |
| 2009-2010 | 442078            | 2495                  | 444573                | 1307                    |
| 2010-2011 | 535302            | 4545                  | 539846                | 2297                    |
| 2011-2012 | 104740            | 1810                  | 106550                | 684                     |
| 2012-2013 | 71136             | 1186                  | 72322                 | 607                     |
| 2013-2014 | 116561            | 8162                  | 124722                | 1081                    |
| 2014-2015 | 98337             | 2415                  | 100751                | 806                     |
| 2015-2016 | 4564              | 2500                  | 7064                  | 151                     |
| 2016-2017 | 153721            | 3227                  | 156948                | 2386                    |
| 2017-2018 | 44496             | 313                   | 44808                 | 979                     |
| 2018-2019 | 392               | 8                     | 400                   | 160                     |
| 2019-2020 | 2890              | 147                   | 3037                  | 389                     |
| 2020-2021 | 20614             | 14                    | 20628                 | 2875                    |
| 2021-2022 | 58632             | 3584                  | 62216                 | 2896                    |

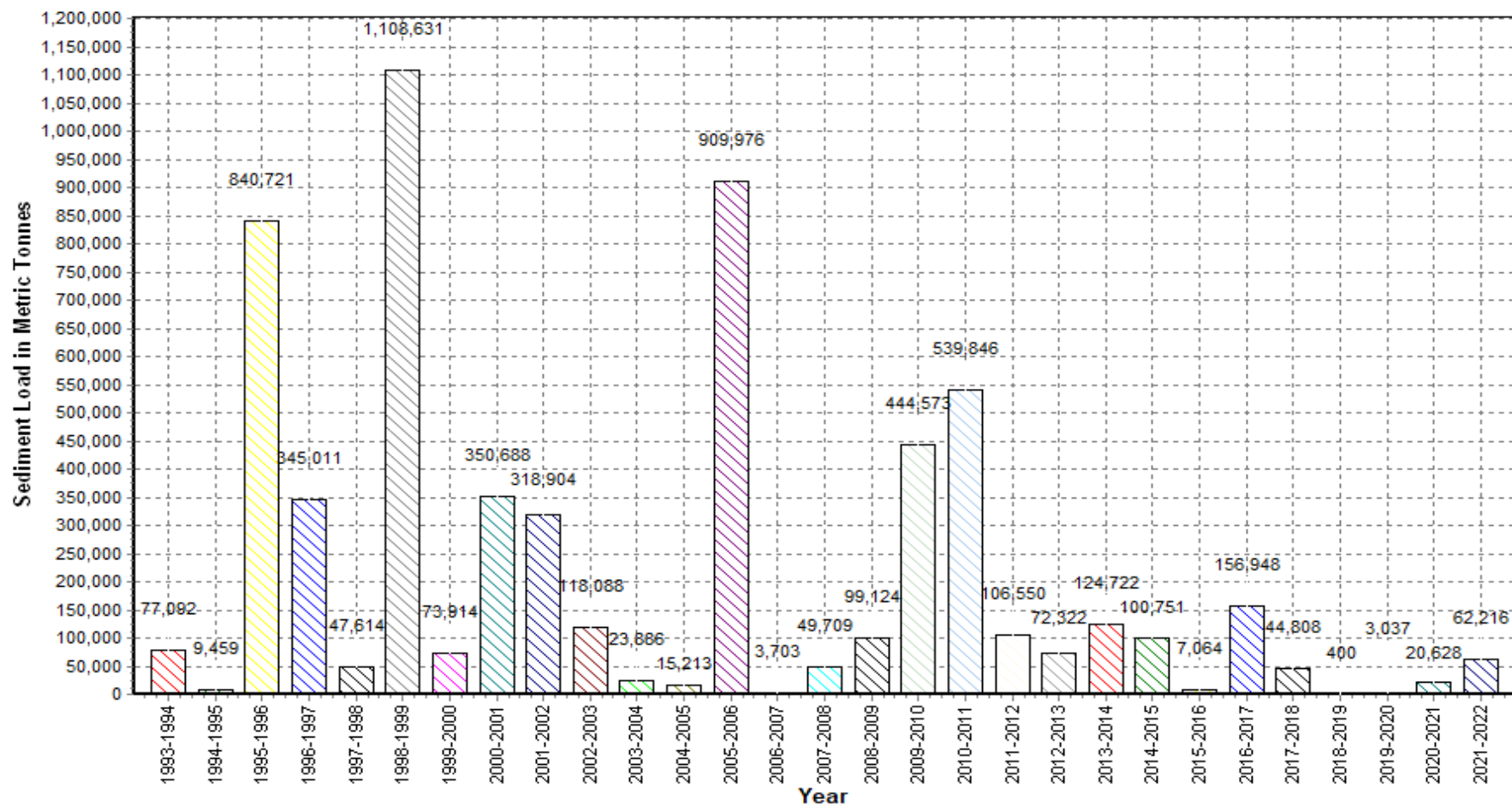
# Annual Sediment Load for the period: 1993-2022

Station Name : Malkhed ( AKP10E1)

Local River : Kagna

Division : Lower Krishna Divn., Hyderabad

Sub-Division : Middle Krishna SD 2 , Kurnool



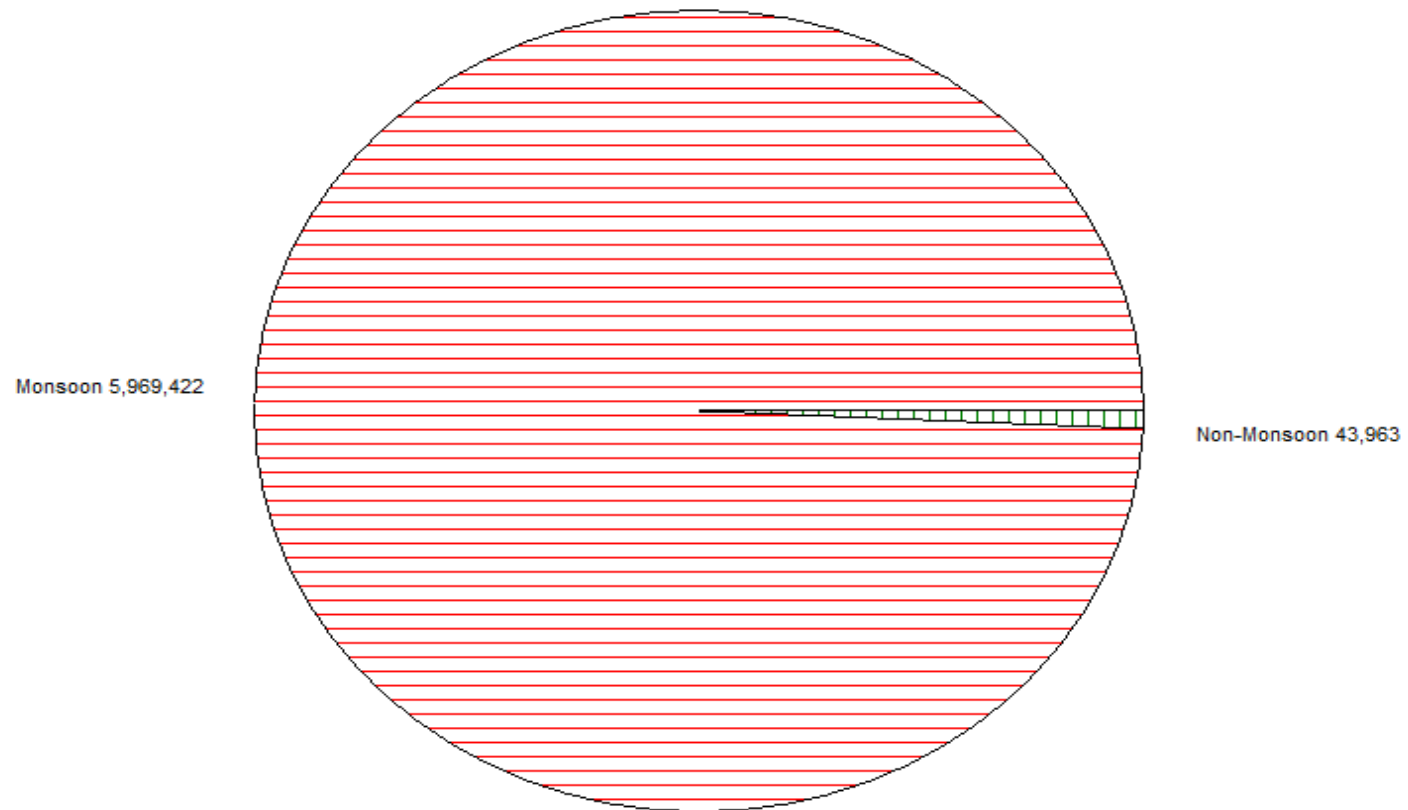
Seasonal Sediment Load for the period : 1993-2021

Station Name : Malkhed ( AKP10E1)

Local River : Kagna

Division : Lower Krishna Divn., Hyderabad

Sub-Division : Middle Krishna SD 2 , Kurnool



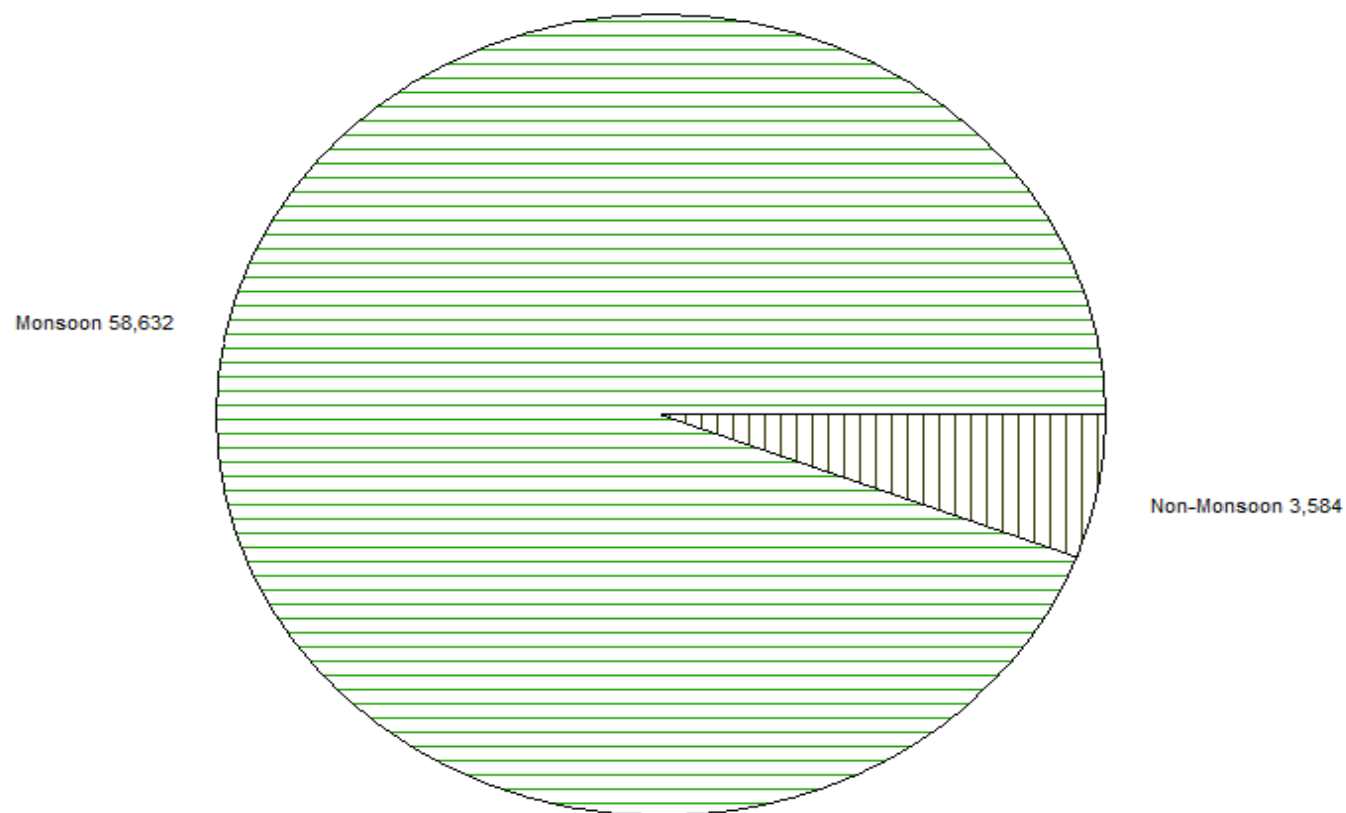
Seasonal Sediment Load for the Year: 2021-2022

Station Name : Malkhed ( AKP10E1)

Local River : Kagna

Division : Lower Krishna Divn., Hyderabad

Sub-Division : Middle Krishna SD 2 , Kurnool





**BED MATERIAL ANALYSIS DATA FOR THE YEAR 2021-22**

SITE : KRISHNA AT MALKHED CODE : AKP10E1  
 MEASURING : LKDN CROSS SECTION : Station gauge line  
 AUTHORITY

**Premonsoon Survey ( Date 12-06-2021 )**

Discharge Observed : 1.628 cumec Water edge RB 78.00 m LB : 185.00 m  
 Area of section : 91.95 sq.m MeanVelocit : 0.0177 m/sec  
 Wetted perimeter : 90.81 Hydraulic Mean Depth : 1.0126 m

| Sl. No | R.D.of sampling point in meters | R.L. of bed in meters | Mean diameter in mm | Remarks               |
|--------|---------------------------------|-----------------------|---------------------|-----------------------|
| 1      | 30                              | 397.760               | 0.68                |                       |
| 2      | 90                              | 390.410               | 1.77                | Av.mean               |
| 3      | 180                             | 392.210               | 1.99                | dia "m" = <b>1.25</b> |
| 4      | 280                             | 401.100               | 0.58                | Silt factor           |
|        |                                 |                       |                     | "f" =1.76 $\sqrt{m}$  |
|        |                                 |                       |                     | = <b>1.97</b>         |

**Note :** i. Discharge observation was at station gauge line.  
 ii. River bed : Flowing water.

**Monsoon Survey ( Date 29-11-2021 )**

Discharge Observed : 54.41 cumec Water edge RB 77.00 m LB : 218.00 m  
 Area of section : 161.49 sq.m MeanVelocit : 0.3369 m/sec  
 Wetted perimeter : 141.86 Hydraulic Mean Depth : 1.1383 m

| Sl. No | R.D.of sampling point in meters | R.L. of bed in meters | Mean diameter in mm | Remarks               |
|--------|---------------------------------|-----------------------|---------------------|-----------------------|
| 1      | 30                              | 397.770               | 0.68                |                       |
| 2      | 90                              | 390.417               | 1.67                | Av.mean               |
| 3      | 180                             | 392.223               | 1.10                | dia "m" = <b>0.99</b> |
| 4      | 280                             | 401.115               | 0.51                | Silt factor           |
|        |                                 |                       |                     | "f" =1.76 $\sqrt{m}$  |
|        |                                 |                       |                     | = <b>1.75</b>         |

**Note :** i. Discharge observation was at station gauge line.  
 ii. River bed : Flowing water.

**Postmonsoon Survey ( Date 10-01-2022 )**

Discharge Observed : 3.232 cumec Water edge RB 213.00 m LB : 78.00 m  
 Area of section : 86.94 sq.m MeanVelocit : 0.0372 m/sec  
 Wetted perimeter : 103.82 Hydraulic Mean Depth : 0.8375 m

| Sl. No | R.D.of sampling point in meters | R.L. of bed in meters | Mean diameter in mm | Remarks               |
|--------|---------------------------------|-----------------------|---------------------|-----------------------|
| 1      | 30                              | 397.740               | 0.08                |                       |
| 2      | 90                              | 389.980               | 0.51                | Av.mean               |
| 3      | 180                             | 392.430               | 1.13                | dia "m" = <b>0.79</b> |
| 4      | 280                             | 401.230               | 1.43                | Silt factor           |
|        |                                 |                       |                     | "f" =1.76 $\sqrt{m}$  |
|        |                                 |                       |                     | = <b>1.56</b>         |

**Note :** i. Discharge observation was at station gauge line.  
 ii. River bed : Flowing water.

## HISTORY SHEET

|                          |                                                                                            |                   |                                 |
|--------------------------|--------------------------------------------------------------------------------------------|-------------------|---------------------------------|
|                          |                                                                                            | <b>Water Year</b> | <b>: 2021-2022</b>              |
| <b>Site</b>              | <b>: Yadgir</b>                                                                            | <b>Code</b>       | <b>: AKP00B6</b>                |
| State                    | : Karnataka                                                                                | District          | Gulbarga                        |
| Basin                    | : Krishna                                                                                  | Independent River | : Krishna                       |
| Tributary                | : Bhima                                                                                    | Sub Tributary     | : -                             |
| Sub-Sub Tributary        | : -                                                                                        | Local River       | : Bhima                         |
| Division                 | : Lower Krishna Divn., Hyderabad                                                           | Sub-Division      | : Middle Krishna SD 2 , Kurnool |
| Drainage Area            | : 69863 Sq. Km.                                                                            | Bank              | : Left                          |
| Latitude                 | : 16°44'15"                                                                                | Longitude         | : 77°07'31"                     |
| <b>Zero of Gauge (m)</b> | : 350.503 (m.s.l)<br>350.503 (m.s.l)<br>350.503 (m.s.l)<br>350.503 (m.s.l)<br>Opening Date | 01-01-1960        | 10-11-1964                      |
|                          |                                                                                            | 11-11-1964        | - 31-12-1998                    |
|                          |                                                                                            | 01-01-1999        | - 31-12-2005                    |
|                          |                                                                                            | 01-01-2006        |                                 |
|                          |                                                                                            | Closing Date      |                                 |
| Gauge                    | : 05-09-1963                                                                               |                   |                                 |
| Discharge                | : 11-11-1964                                                                               |                   |                                 |
| Sediment                 | : 01-06-1965                                                                               |                   |                                 |
| Water Quality            | : 01-01-1972                                                                               |                   |                                 |

**Daily Observed Sediment Datasheet for period : 2021-2022**

Station Name : Yadgir ( AKP00B6)

Local River : Bhima

Division : Lower Krishna Divn., Hyderabad

Sub-Division : Middle Krishna SD 2 , Kurnool

| Day                   | Jun          |               |               |             |              |                   | Jul          |               |               |             |              |                   | Aug          |               |               |             |              |                   |
|-----------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                       | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 27.40        | 0.000         | 0.000         | 0.161       | 0.161        | 380               | 329.2        | 0.000         | 0.000         | 0.053       | 0.053        | 1514              |
| 2                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 7.147        | 0.000         | 0.000         | 0.104       | 0.104        | 64                | 348.2        | 0.000         | 0.000         | 0.053       | 0.053        | 1595              |
| 3                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 5.247        | 0.000         | 0.000         | 0.089       | 0.089        | 40                | 344.7        | 0.000         | 0.000         | 0.053       | 0.053        | 1579              |
| 4                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 6.558        | 0.000         | 0.000         | 1.947       | 1.947        | 1103              | 239.0        | 0.000         | 0.000         | 0.059       | 0.059        | 1219              |
| 5                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 54.35        | 0.000         | 0.000         | 0.023       | 0.023        | 106               | 198.4        | 0.000         | 0.000         | 0.066       | 0.066        | 1132              |
| 6                     | 97.97        | 0.000         | 0.000         | 0.123       | 0.123        | 1038              | 42.61        | 0.000         | 0.000         | 0.145       | 0.145        | 533               | 269.0        | 0.000         | 0.000         | 0.056       | 0.056        | 1302              |
| 7                     | 232.3        | 0.000         | 0.000         | 0.060       | 0.060        | 1202              | 51.40        | 0.000         | 0.000         | 0.129       | 0.129        | 573               | 178.6        | 0.000         | 0.000         | 0.071       | 0.071        | 1100              |
| 8                     | 369.7        | 0.000         | 0.000         | 0.044       | 0.044        | 1412              | 23.04        | 0.000         | 0.000         | 0.114       | 0.114        | 228               | 129.9        | 0.000         | 0.000         | 0.093       | 0.093        | 1049              |
| 9                     | 467.8        | 0.000         | 0.000         | 0.075       | 0.075        | 3039              | 7.147        | 0.000         | 0.000         | 0.118       | 0.118        | 73                | 141.1        | 0.000         | 0.000         | 0.087       | 0.087        | 1057              |
| 10                    | 59.88        | 0.000         | 0.000         | 0.012       | 0.012        | 64                | 3.950        | 0.000         | 0.000         | 0.119       | 0.119        | 41                | 128.0        | 0.000         | 0.000         | 0.095       | 0.095        | 1048              |
| 11                    | 34.47        | 0.000         | 0.000         | 0.065       | 0.065        | 193               | 4.362        | 0.000         | 0.000         | 2.936       | 2.936        | 1106              | 107.2        | 0.000         | 0.000         | 0.112       | 0.112        | 1039              |
| 12                    | 43.90        | 0.000         | 0.000         | 0.043       | 0.043        | 162               | 111.2        | 0.000         | 0.000         | 0.112       | 0.112        | 1075              | 93.67        | 0.000         | 0.000         | 0.128       | 0.128        | 1038              |
| 13                    | 59.88        | 0.000         | 0.000         | 0.203       | 0.203        | 1048              | 82.70        | 0.000         | 0.000         | 0.088       | 0.088        | 625               | 91.87        | 0.000         | 0.000         | 0.131       | 0.131        | 1038              |
| 14                    | 124.0        | 0.000         | 0.000         | 0.047       | 0.047        | 499               | 156.9        | 0.000         | 0.000         | 0.104       | 0.104        | 1410              | 97.52        | 0.000         | 0.000         | 0.123       | 0.123        | 1038              |
| 15                    | 350.0        | 0.000         | 0.000         | 0.042       | 0.042        | 1273              | 356.9        | 0.000         | 0.000         | 0.329       | 0.329        | 10132             | 75.30        | 0.000         | 0.000         | 0.160       | 0.160        | 1041              |
| 16                    | 263.5        | 0.000         | 0.000         | 0.064       | 0.064        | 1455              | 198.4        | 0.000         | 0.000         | 0.224       | 0.224        | 3839              | 82.77        | 0.000         | 0.000         | 0.145       | 0.145        | 1039              |
| 17                    | 207.7        | 0.000         | 0.000         | 0.093       | 0.093        | 1660              | 466.7        | 0.000         | 0.000         | 0.374       | 0.374        | 15070             | 88.01        | 0.000         | 0.000         | 0.137       | 0.137        | 1038              |
| 18                    | 255.9        | 0.000         | 0.000         | 0.051       | 0.051        | 1134              | 675.9        | 0.000         | 0.000         | 0.068       | 0.068        | 3953              | 47.03        | 0.000         | 0.000         | 0.260       | 0.260        | 1056              |
| 19                    | 83.63        | 0.000         | 0.000         | 0.091       | 0.091        | 656               | 744.5        | 0.000         | 0.000         | 0.354       | 0.354        | 22738             | 15.07        | 0.000         | 0.000         | 0.838       | 0.838        | 1091              |
| 20                    | 166.4        | 0.000         | 0.000         | 0.075       | 0.075        | 1082              | 1018         | 0.000         | 0.000         | 0.184       | 0.184        | 16159             | 396.9        | 0.000         | 0.000         | 0.053       | 0.053        | 1828              |
| 21                    | 167.2        | 0.000         | 0.000         | 0.073       | 0.073        | 1056              | 454.7        | 0.000         | 0.000         | 0.055       | 0.055        | 2157              | 213.9        | 0.000         | 0.000         | 0.063       | 0.063        | 1162              |
| 22                    | 240.0        | 0.000         | 0.000         | 0.042       | 0.042        | 867               | 476.4        | 0.000         | 0.000         | 0.086       | 0.086        | 3544              | 204.6        | 0.000         | 0.000         | 0.065       | 0.065        | 1143              |
| 23                    | 25.18        | 0.000         | 0.000         | 0.084       | 0.084        | 183               | 663.9        | 0.000         | 0.000         | 0.101       | 0.101        | 5805              | 181.0        | 0.000         | 0.000         | 0.071       | 0.071        | 1103              |
| 24                    | 12.57        | 0.000         | 0.000         | 0.016       | 0.016        | 17                | 582.5        | 0.000         | 0.000         | 0.079       | 0.079        | 3966              | 154.8        | 0.000         | 0.000         | 0.080       | 0.080        | 1070              |
| 25                    | 6.505        | 0.000         | 0.000         | 0.017       | 0.017        | 9                 | 661.4        | 0.000         | 0.000         | 0.067       | 0.067        | 3812              | 138.9        | 0.000         | 0.000         | 0.088       | 0.088        | 1055              |
| 26                    | 53.89        | 0.000         | 0.000         | 0.068       | 0.068        | 314               | 340.6        | 0.000         | 0.000         | 0.054       | 0.054        | 1586              | 109.3        | 0.000         | 0.000         | 0.110       | 0.110        | 1040              |
| 27                    | 111.4        | 0.000         | 0.000         | 0.108       | 0.108        | 1040              | 340.6        | 0.000         | 0.000         | 0.073       | 0.073        | 2139              | 128.0        | 0.000         | 0.000         | 0.095       | 0.095        | 1048              |
| 28                    | 207.7        | 0.000         | 0.000         | 0.069       | 0.069        | 1246              | 283.5        | 0.000         | 0.000         | 0.061       | 0.061        | 1502              | 153.3        | 0.000         | 0.000         | 0.081       | 0.081        | 1068              |
| 29                    | 109.5        | 0.000         | 0.000         | 0.068       | 0.068        | 644               | 216.6        | 0.000         | 0.000         | 0.088       | 0.088        | 1638              | 159.2        | 0.000         | 0.000         | 0.078       | 0.078        | 1075              |
| 30                    | 83.63        | 0.000         | 0.000         | 0.121       | 0.121        | 871               | 340.6        | 0.000         | 0.000         | 0.093       | 0.093        | 2742              | 202.0        | 0.000         | 0.000         | 0.065       | 0.065        | 1138              |
| 31                    |              |               |               |             |              |                   | 340.6        | 0.000         | 0.000         | 0.093       | 0.093        | 2737              | 474.0        | 0.000         | 0.000         | 0.056       | 0.056        | 2281              |
| <b>Ten Daily Mean</b> |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| <b>Ten Daily I</b>    | 122.8        | 0.000         | 0.000         | 0.031       | 0.031        | 676               | 22.89        | 0.000         | 0.000         | 0.295       | 0.295        | 314               | 230.6        | 0.000         | 0.000         | 0.069       | 0.069        | 1260              |
| <b>Ten Daily II</b>   | 158.9        | 0.000         | 0.000         | 0.077       | 0.077        | 916               | 381.5        | 0.000         | 0.000         | 0.477       | 0.477        | 7611              | 109.5        | 0.000         | 0.000         | 0.209       | 0.209        | 1125              |
| <b>Ten Daily III</b>  | 101.8        | 0.000         | 0.000         | 0.067       | 0.067        | 625               | 427.4        | 0.000         | 0.000         | 0.077       | 0.077        | 2875              | 192.6        | 0.000         | 0.000         | 0.077       | 0.077        | 1199              |
| <b>Monthly</b>        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| <b>Total</b>          |              |               |               |             |              | 22166             |              |               |               |             |              | 110877            |              |               |               |             |              | 37024             |

Annual Sediment Load (Metric Tonnes) : 1005095

**Daily Observed Sediment Datasheet for period : 2021-2022**

Station Name : Yadgir ( AKP00B6)

Local River : Bhima

Division : Lower Krishna Divn., Hyderabad

Sub-Division : Middle Krishna SD 2 , Kurnool

| Day            | Sep          |               |               |             |              |                   | Oct          |               |               |             |              |                   | Nov          |               |               |             |              |                   |
|----------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1              | 908.0        | 0.000         | 0.000         | 0.118       | 0.118        | 9257              | 1773         | 0.000         | 0.000         | 0.155       | 0.155        | 23780             | 101.7        | 0.000         | 0.000         | 0.073       | 0.073        | 641               |
| 2              | 625.2        | 0.000         | 0.000         | 0.075       | 0.075        | 4035              | 1637         | 0.000         | 0.000         | 0.152       | 0.152        | 21532             | 95.45        | 0.000         | 0.000         | 0.071       | 0.071        | 583               |
| 3              | 461.1        | 0.000         | 0.000         | 0.077       | 0.077        | 3061              | 1953         | 0.000         | 0.000         | 0.182       | 0.182        | 30762             | 99.74        | 0.000         | 0.000         | 0.074       | 0.074        | 636               |
| 4              | 212.3        | 0.000         | 0.000         | 0.086       | 0.086        | 1579              | 1027         | 0.000         | 0.000         | 0.103       | 0.103        | 9161              | 92.48        | 0.000         | 0.000         | 0.130       | 0.130        | 1038              |
| 5              | 454.7        | 0.000         | 0.000         | 0.055       | 0.055        | 2157              | 1132         | 0.000         | 0.000         | 0.106       | 0.106        | 10324             | 99.74        | 0.000         | 0.000         | 0.073       | 0.073        | 625               |
| 6              | 3050         | 0.000         | 0.000         | 0.266       | 0.266        | 69990             | 1027         | 0.000         | 0.000         | 0.104       | 0.104        | 9250              | 99.74        | 0.000         | 0.000         | 0.074       | 0.074        | 636               |
| 7              | 2670         | 0.000         | 0.000         | 0.254       | 0.254        | 58695             | 1271         | 0.000         | 0.000         | 0.108       | 0.108        | 11860             | 92.48        | 0.000         | 0.000         | 0.130       | 0.130        | 1038              |
| 8              | 2357         | 0.000         | 0.000         | 0.209       | 0.209        | 42576             | 1255         | 0.000         | 0.000         | 0.107       | 0.107        | 11632             | 99.74        | 0.000         | 0.000         | 0.072       | 0.072        | 622               |
| 9              | 1690         | 0.000         | 0.000         | 0.201       | 0.201        | 29361             | 1356         | 0.000         | 0.000         | 0.110       | 0.110        | 12939             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0.000             |
| 10             | 845.7        | 0.000         | 0.000         | 0.081       | 0.081        | 5904              | 1729         | 0.000         | 0.000         | 0.161       | 0.161        | 24039             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0.000             |
| 11             | 563.5        | 0.000         | 0.000         | 0.079       | 0.079        | 3865              | 1271         | 0.000         | 0.000         | 0.109       | 0.109        | 11926             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0.000             |
| 12             | 396.9        | 0.000         | 0.000         | 0.053       | 0.053        | 1828              | 1705         | 0.000         | 0.000         | 0.114       | 0.114        | 16852             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0.000             |
| 13             | 474.3        | 0.000         | 0.000         | 0.070       | 0.070        | 2877              | 1843         | 0.000         | 0.000         | 0.106       | 0.106        | 16878             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0.000             |
| 14             | 430.3        | 0.000         | 0.000         | 0.072       | 0.072        | 2684              | 1773         | 0.000         | 0.000         | 0.109       | 0.109        | 16639             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0.000             |
| 15             | 366.4        | 0.000         | 0.000         | 0.065       | 0.065        | 2054              | 1512         | 0.000         | 0.000         | 0.140       | 0.140        | 18323             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0.000             |
| 16             | 454.1        | 0.000         | 0.000         | 0.069       | 0.069        | 2696              | 877.1        | 0.000         | 0.000         | 0.107       | 0.107        | 8086              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0.000             |
| 17             | 475.4        | 0.000         | 0.000         | 0.071       | 0.071        | 2896              | 346.4        | 0.000         | 0.000         | 0.053       | 0.053        | 1586              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0.000             |
| 18             | 430.3        | 0.000         | 0.000         | 0.070       | 0.070        | 2613              | 343.7        | 0.000         | 0.000         | 0.085       | 0.085        | 2518              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0.000             |
| 19             | 577.7        | 0.000         | 0.000         | 0.061       | 0.061        | 3050              | 520.8        | 0.000         | 0.000         | 0.058       | 0.058        | 2605              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0.000             |
| 20             | 426.4        | 0.000         | 0.000         | 0.073       | 0.073        | 2689              | 425.9        | 0.000         | 0.000         | 0.087       | 0.087        | 3191              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0.000             |
| 21             | 460.0        | 0.000         | 0.000         | 0.078       | 0.078        | 3100              | 440.4        | 0.000         | 0.000         | 0.092       | 0.092        | 3481              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0.000             |
| 22             | 591.7        | 0.000         | 0.000         | 0.074       | 0.074        | 3763              | 456.5        | 0.000         | 0.000         | 0.097       | 0.097        | 3814              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0.000             |
| 23             | 613.4        | 0.000         | 0.000         | 0.073       | 0.073        | 3848              | 447.2        | 0.000         | 0.000         | 0.093       | 0.093        | 3578              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0.000             |
| 24             | 1010         | 0.000         | 0.000         | 0.082       | 0.082        | 7172              | 342.9        | 0.000         | 0.000         | 0.053       | 0.053        | 1570              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0.000             |
| 25             | 1416         | 0.000         | 0.000         | 0.092       | 0.092        | 11304             | 192.7        | 0.000         | 0.000         | 0.086       | 0.086        | 1431              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0.000             |
| 26             | 1370         | 0.000         | 0.000         | 0.127       | 0.127        | 15045             | 121.7        | 0.000         | 0.000         | 0.069       | 0.069        | 724               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0.000             |
| 27             | 1901         | 0.000         | 0.000         | 0.092       | 0.092        | 15146             | 151.8        | 0.000         | 0.000         | 0.073       | 0.073        | 955               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0.000             |
| 28             | 1416         | 0.000         | 0.000         | 0.088       | 0.088        | 10705             | 119.7        | 0.000         | 0.000         | 0.077       | 0.077        | 791               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0.000             |
| 29             | 4255         | 0.000         | 0.000         | 0.409       | 0.409        | 150246            | 101.7        | 0.000         | 0.000         | 0.072       | 0.072        | 636               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0.000             |
| 30             | 2670         | 0.000         | 0.000         | 0.315       | 0.315        | 72746             | 61.74        | 0.000         | 0.000         | 0.069       | 0.069        | 367               | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0.000             |
| 31             |              |               |               |             |              |                   | 80.27        | 0.000         | 0.000         | 0.150       | 0.150        | 1040              |              |               |               |             |              |                   |
| Ten Daily Mean |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Ten Daily I    | 1327         | 0.000         | 0.000         | 0.142       | 0.142        | 22661             | 1416         | 0.000         | 0.000         | 0.129       | 0.129        | 16528             | 78.11        | 0.000         | 0.000         | 0.087       | 0.087        | 727               |
| Ten Daily II   | 459.5        | 0.000         | 0.000         | 0.068       | 0.068        | 2725              | 1062         | 0.000         | 0.000         | 0.097       | 0.097        | 9860              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Ten Daily III  | 1570         | 0.000         | 0.000         | 0.143       | 0.143        | 29307             | 228.8        | 0.000         | 0.000         | 0.084       | 0.084        | 1672              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Monthly        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               | 0.000       | 0.000        |                   |
| Total          |              |               |               |             |              | 546939            |              |               |               |             |              | 282271            |              |               |               |             |              | 5818              |

Annual Sediment Load (Metric Tonnes) : 1005095

**Daily Observed Sediment Datasheet for period : 2021-2022**

Station Name : Yadgir ( AKP00B6)

Local River : Bhima

Division : Lower Krishna Divn., Hyderabad

Sub-Division : Middle Krishna SD 2 , Kurnool

| Day                   | Dec          |               |               |             |              |                   | Jan          |               |               |             |              |                   | Feb          |               |               |             |              |                   |
|-----------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                       | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 2                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 3                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 4                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 5                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 6                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 7                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 8                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 9                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 10                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 11                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 12                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 13                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 14                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 15                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 16                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 17                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 18                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 19                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 20                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 21                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 22                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 23                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 24                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 25                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 26                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 27                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 28                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 29                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |              |               |               |             |              |                   |
| 30                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |              |               |               |             |              |                   |
| 31                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |              |               |               |             |              |                   |
| <b>Ten Daily Mean</b> |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| <b>Ten Daily I</b>    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| <b>Ten Daily II</b>   | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| <b>Ten Daily III</b>  | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| <b>Monthly</b>        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| <b>Total</b>          |              |               |               |             |              | 0                 |              |               |               |             |              | 0                 |              |               |               |             |              | 0                 |

Annual Sediment Load (Metric Tonnes) : 1005095

**Daily Observed Sediment Datasheet for period : 2021-2022**

Station Name : Yadgir ( AKP00B6)

Local River : Bhima

Division : Lower Krishna Divn., Hyderabad

Sub-Division : Middle Krishna SD 2 , Kurnool

| Day            | Mar          |               |               |             |              |                   | Apr          |               |               |             |              |                   | May          |               |               |             |              |                   |
|----------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 2              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.001         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 3              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.002         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 4              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.003         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 5              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.004         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 6              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.005         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 7              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.006         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 8              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.007         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 9              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.008         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 10             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.009         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 11             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.010         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 12             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.011         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 13             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.012         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 14             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.013         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 15             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.014         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 16             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.015         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 17             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.016         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 18             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.017         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 19             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.018         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 20             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.019         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 21             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.020         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 22             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.021         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 23             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.022         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 24             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.023         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 25             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.024         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 26             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.025         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 27             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.026         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 28             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.027         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 29             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.028         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 30             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.029         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 31             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |              |               |               |             |              |                   | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Ten Daily Mean |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Ten Daily I    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Ten Daily II   | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Ten Daily III  | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Monthly        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |

Total

0

# Annual Sediment Load for period : 1965-2022

Station Name : Yadgir ( AKP00B6)

Local River : Bhima

Division : Lower Krishna Divn., Hyderabad

Sub-Division : Middle Krishna SD 2 , Kurnool

| Year      | Monsoon<br>(M.T.) | Non-Monsoon<br>(M.T.) | Annual Load<br>(M.T.) | Annual Run Off<br>(MCM) |
|-----------|-------------------|-----------------------|-----------------------|-------------------------|
| 1965-1966 | 18485517          | 2619627               | 21105144              | 10162                   |
| 1966-1967 | 21718099          | 21080                 | 21739180              | 8034                    |
| 1967-1968 | 87178316          | 150592                | 87328908              | 14905                   |
| 1968-1969 | 39771601          | 3383                  | 39774983              | 8426                    |
| 1969-1970 | 49004890          | 10258                 | 49015149              | 15409                   |
| 1970-1971 | 28098699          | 3739                  | 28102437              | 11562                   |
| 1971-1972 | 44789568          | 729                   | 44790297              | 11094                   |
| 1972-1973 | 1031524           | 604                   | 1032127               | 3307                    |
| 1973-1974 | 39193058          | 20569                 | 39213627              | 14399                   |
| 1974-1975 | 29899607          | 8144                  | 29907751              | 11807                   |
| 1975-1976 | 46252225          | 9660                  | 46261885              | 20660                   |
| 1976-1977 | 10134312          | 2162                  | 10136474              | 13075                   |
| 1977-1978 | 16908130          | 1032110               | 17940239              | 8764                    |
| 1978-1979 | 21563001          | 14714                 | 21577714              | 12011                   |
| 1979-1980 | 22061405          | 10606                 | 22072011              | 12979                   |
| 1980-1981 | 10805666          | 1284                  | 10806950              | 8564                    |
| 1981-1982 | 20061965          | 850                   | 20062815              | 13320                   |
| 1982-1983 | 4955240           | 3055                  | 4958296               | 4354                    |
| 1983-1984 | 32323614          | 3052                  | 32326666              | 15169                   |
| 1984-1985 | 11483977          | 2199                  | 11486176              | 7685                    |
| 1985-1986 | 8149000           | 995                   | 8149995               | 3947                    |
| 1986-1987 | 7070616           | 717                   | 7071333               | 3731                    |
| 1987-1988 | 11928853          | 26030                 | 11954883              | 3588                    |
| 1988-1989 | 29435550          | 3230                  | 29438780              | 14064                   |
| 1989-1990 | 20466744          | 16071                 | 20482815              | 10550                   |
| 1990-1991 | 19600725          | 10271                 | 19610997              | 15089                   |
| 1991-1992 | 8434309           | 1179                  | 8435488               | 9265                    |
| 1992-1993 | 4215537           | 542                   | 4216079               | 2714                    |
| 1993-1994 | 5299658           | 10686                 | 5310344               | 5203                    |
| 1994-1995 | 4562815           | 1162                  | 4563978               | 10577                   |
| 1995-1996 | 426384            | 646                   | 427030                | 2860                    |
| 1996-1997 | 9789175           | 1517                  | 9790693               | 8364                    |
| 1997-1998 | 2648063           | 2601                  | 2650664               | 5203                    |
| 1998-1999 | 18053862          | 29557                 | 18083419              | 21066                   |
| 1999-2000 | 1150852           | 1423                  | 1152275               | 3503                    |
| 2000-2001 | 1742833           | 5076                  | 1747910               | 3862                    |
| 2001-2002 | 2755885           | 1242                  | 2757128               | 2481                    |
| 2002-2003 | 151563            | 962                   | 152525                | 766                     |
| 2003-2004 | 205112            | 21963                 | 227075                | 1619                    |
| 2004-2005 | 1372309           | 1366                  | 1373675               | 2555                    |
| 2005-2006 | 17935978          | 1080                  | 17937058              | 13541                   |
| 2006-2007 | 7425655           | 0                     | 7425655               | 14191                   |
| 2007-2008 | 1964195           | 2366                  | 1966561               | 7626                    |
| 2008-2009 | 745275            | 0                     | 745275                | 4736                    |
| 2009-2010 | 13191427          | 3753                  | 13195181              | 7553                    |
| 2010-2011 | 1650927           | 10327                 | 1661254               | 8053                    |
| 2011-2012 | 1103179           | 3611                  | 1106790               | 3956                    |
| 2012-2013 | 126160            | 4243                  | 130403                | 1043                    |
| 2013-2014 | 1141933           | 5682                  | 1147615               | 4392                    |
| 2014-2015 | 262906            | 0                     | 262906                | 2195                    |
| 2015-2016 | 5621              | 0                     | 5621                  | 401                     |
| 2016-2017 | 771467            | 0                     | 771467                | 4270                    |
| 2017-2018 | 725273            | 0                     | 725273                | 6713                    |
| 2018-2019 | 82922             | 0                     | 82922                 | 1052                    |
| 2019-2020 | 616995            | 0                     | 616995                | 10156                   |
| 2020-2021 | 1761405           | 0                     | 1761405               | 19117                   |
| 2021-2022 | 1005095           | 0                     | 1005095               | 6890                    |

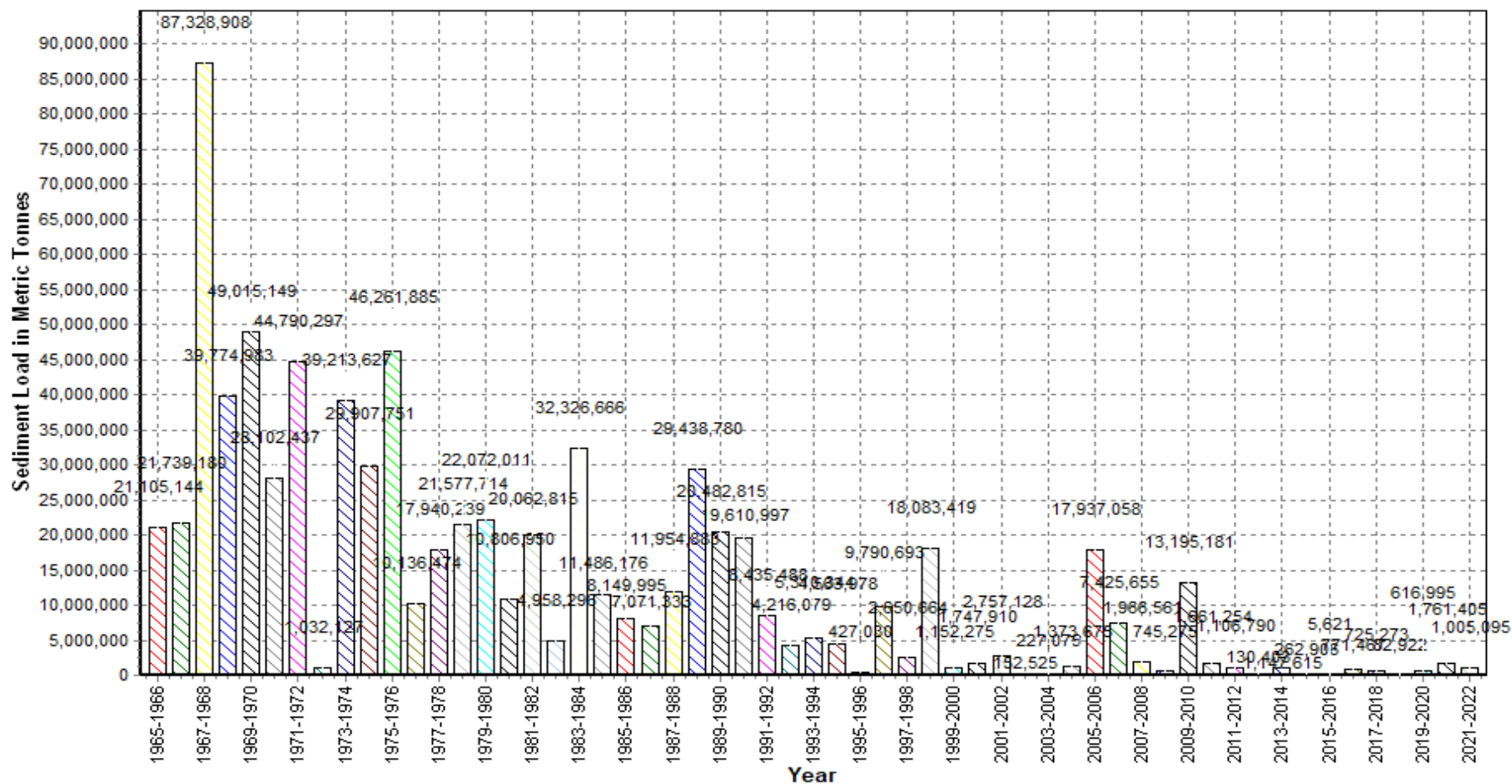
# Annual Sediment Load for the period: 1965-2022

Station Name : Yadgir ( AKP00B6)

Local River : Bhima

Division : Lower Krishna Divn., Hyderabad

Sub-Division : Middle Krishna SD 2 , Kurnool





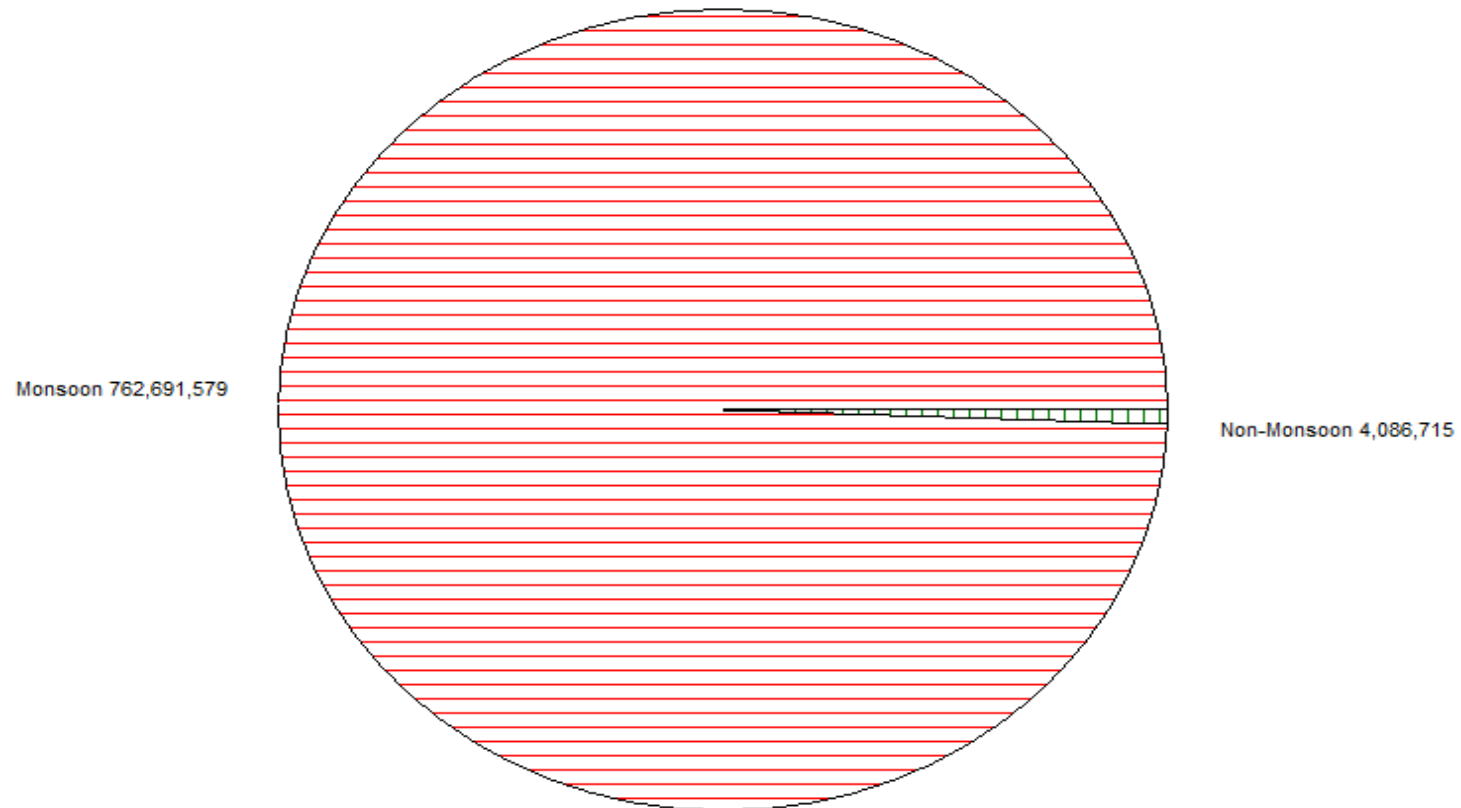
Seasonal Sediment Load for the period : 1965-2021

Station Name : Yadgir ( AKP00B6)

Local River : Bhima

Division : Lower Krishna Divn., Hyderabad

Sub-Division : Middle Krishna SD 2 , Kurnool



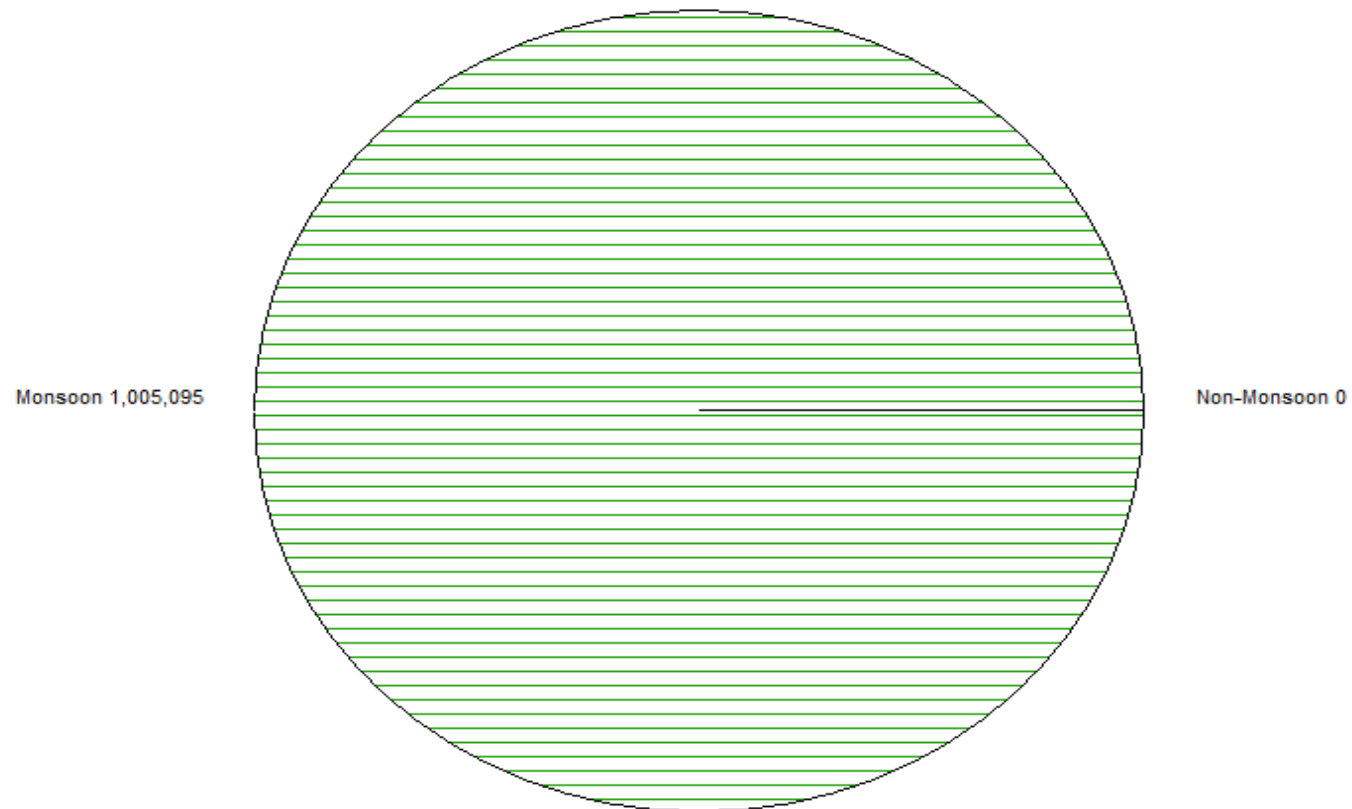
Seasonal Sediment Load for the Year: 2021-2022

Station Name : Yadgir ( AKP00B6)

Local River : Bhima

Division : Lower Krishna Divn., Hyderabad

Sub-Division : Middle Krishna SD 2 , Kurnool



**BED MATERIAL ANALYSIS DATA FOR THE YEAR 2021-22**

SITE : BHIMA AT YADGIR CODE : AKP00B6  
 MEASURING : LKDN CROSS SECTION : Station gauge line  
 AUTHORITY

**Premonsoon Survey ( Date 10-06-2021 )**

Discharge Observed : 106.5 cumec Water edge RB 324.50 m LB : 579.00 m  
 Area of section : 527.00 sq.m MeanVelocit : 0.2021 m/sec  
 Wetted perimeter : 262.25 Hydraulic Mean Depth : 2.0095 m

| Sl. No | R.D.of sampling point in meters | R.L. of bed in meters | Mean diameter in mm | Remarks               |
|--------|---------------------------------|-----------------------|---------------------|-----------------------|
| 1      | 250                             | 360.568               | 0.59                |                       |
| 2      | 330                             | 350.420               | 0.43                | Av.mean               |
| 3      | 420                             | 349.293               | 0.39                | dia "m" = <b>0.71</b> |
| 4      | 480                             | 348.763               | 0.40                | Silt factor           |
| 5      | 570                             | 350.893               | 0.79                | "f" =1.76 $\sqrt{m}$  |
| 6      | 660                             | 354.423               | 1.70                | = <b>1.49</b>         |

**Note :** i. Discharge observation was at station gauge line.  
 ii. River bed : Flowing water.

**Monsoon Survey ( Date 25-11-2021 )**

Discharge Observed : --- cumec Water edge RB --- m LB : --- m  
 Area of section : --- sq.m MeanVelocit : --- m/sec  
 Wetted perimeter : --- Hydraulic Mean Depth : --- m

| Sl. No | R.D.of sampling point in meters | R.L. of bed in meters | Mean diameter in mm | Remarks               |
|--------|---------------------------------|-----------------------|---------------------|-----------------------|
| 1      | 250                             | 360.568               | 0.67                |                       |
| 2      | 330                             | 350.608               | 0.61                | Av.mean               |
| 3      | 420                             | 249.318               | 0.50                | dia "m" = <b>0.73</b> |
| 4      | 480                             | 348.658               | 0.92                | Silt factor           |
| 5      | 570                             | 350.833               | 0.98                | "f" =1.76 $\sqrt{m}$  |
| 6      | 660                             | 354.248               | 0.73                | = <b>1.51</b>         |

**Note :** i. Discharge observation was at station gauge line.  
 ii. River bed : Stagnent Water.

**Postmonsoon Survey ( Date 29-12-2021 )**

Discharge Observed : --- cumec Water edge RB --- m LB : --- m  
 Area of section : --- sq.m MeanVelocit : --- m/sec  
 Wetted perimeter : --- Hydraulic Mean Depth : --- m

| Sl. No | R.D.of sampling point in meters | R.L. of bed in meters | Mean diameter in mm | Remarks               |
|--------|---------------------------------|-----------------------|---------------------|-----------------------|
| 1      | 250                             | 360.548               | 0.25                |                       |
| 2      | 330                             | 350.533               | 0.27                | Av.mean               |
| 3      | 420                             | 349.163               | 0.59                | dia "m" = <b>0.54</b> |
| 4      | 480                             | 348.373               | 0.78                | Silt factor           |
| 5      | 570                             | 350.773               | 0.55                | "f" =1.76 $\sqrt{m}$  |
| 6      | 660                             | 354.103               | 0.78                | = <b>1.29</b>         |

**Note :** i. Discharge observation was at station gauge line.  
 ii. River bed : Stagnent Water.

## HISTORY SHEET

|                          |                                    |                   |                                |
|--------------------------|------------------------------------|-------------------|--------------------------------|
|                          |                                    | <b>Water Year</b> | <b>: 2021-2022</b>             |
| <b>Site</b>              | <b>: SHIMOGA</b>                   | <b>Code</b>       | <b>: AKLD0C6</b>               |
| State                    | : Karnataka                        | District          | Shimoga                        |
| Basin                    | : Krishna                          | Independent River | : Krishna                      |
| Tributary                | : Tungabhadra                      | Sub Tributary     | :                              |
| Sub-Sub Tributary        | :                                  | Local River       | : Tunga                        |
| Division                 | : Cauvery Division, Bangalore      | Sub-Division      | : Upper Tunga Subdn, Devangere |
| Drainage Area            | : 2831 Sq. Km.                     | Bank              | : Right                        |
| Latitude                 | : 13°55'37"                        | Longitude         | : 75°35'06"                    |
| <b>Zero of Gauge (m)</b> | : 558.33 (m.s.l)<br>558.33 (m.s.l) | 21-06-1971        | 31-05-2010                     |
|                          | Opening Date                       | Closing Date      |                                |
| Gauge                    | : 21-06-1971                       |                   |                                |
| Discharge                | : 22-01-1972                       |                   |                                |
| Sediment                 | : 14-09-1972                       |                   |                                |
| Water Quality            | : 01-01-1973                       |                   |                                |

Station Name : SHIMOGA ( AKLD0C6)

Division : Cauvery Division, Bangalore

Local River : Tunga

Sub-Division : Upper Tunga Subdn, Devangere

Discharge observation done by Slope-Area method,therefore Sediment observation not  
done from 01/06/2021 to 31/05/2022

## Annual Sediment Load for period : 1973-2022

Station Name : SHIMOGA ( AKLDOC6)

Division : Cauvery Division, Bangalore

Local River : Tunga

Sub-Division : Upper Tunga Subdn, Devangere

| Year      | Monsoon<br>(M.T.) | Non-Monsoon<br>(M.T.) | Annual Load<br>(M.T.) | Annual Run Off<br>(MCM) |
|-----------|-------------------|-----------------------|-----------------------|-------------------------|
| 1973-1974 | 469669            | 2473                  | 472142                | 5352                    |
| 1974-1975 | 339949            | 997                   | 340946                | 4962                    |
| 1975-1976 | 541069            | 853                   | 541923                | 6701                    |
| 1976-1977 | 168696            | 562                   | 169257                | 3481                    |
| 1977-1978 | 271302            | 1350                  | 272652                | 5175                    |
| 1978-1979 | 720905            | 1146                  | 722051                | 7899                    |
| 1979-1980 | 251664            | 461                   | 252126                | 4283                    |
| 1980-1981 | 484857            | 2420                  | 487277                | 7451                    |
| 1981-1982 | 376145            | 850                   | 376995                | 5862                    |
| 1982-1983 | 311414            | 455                   | 311868                | 5358                    |
| 1983-1984 | 423511            | 1748                  | 425259                | 5153                    |
| 1984-1985 | 273672            | 643                   | 274315                | 5217                    |
| 1985-1986 | 183148            | 476                   | 183624                | 4220                    |
| 1986-1987 | 271279            | 413                   | 271692                | 4190                    |
| 1987-1988 | 82341             | 1033                  | 83374                 | 2609                    |
| 1988-1989 | 356432            | 242                   | 356675                | 4042                    |
| 1989-1990 | 306525            | 354                   | 306879                | 4592                    |
| 1990-1991 | 388231            | 1013                  | 389244                | 5993                    |
| 1991-1992 | 480788            | 522                   | 481310                | 5705                    |
| 1992-1993 | 533711            | 2955                  | 536666                | 6690                    |
| 1993-1994 | 345242            | 3566                  | 348808                | 5337                    |
| 1994-1995 | 1072087           | 2928                  | 1075015               | 8475                    |
| 1995-1996 | 398016            | 1099                  | 399116                | 4142                    |
| 1996-1997 | 284715            | 1555                  | 286270                | 4145                    |
| 1997-1998 | 753712            | 2958                  | 756671                | 6351                    |
| 1998-1999 | 540634            | 4282                  | 544915                | 5531                    |
| 1999-2000 | 648292            | 3118                  | 651411                | 6185                    |
| 2000-2001 | 1053927           | 1890                  | 1055817               | 5577                    |
| 2001-2002 | 311779            | 1310                  | 313090                | 4294                    |
| 2002-2003 | 233970            | 2432                  | 236401                | 3615                    |
| 2003-2004 | 245237            | 686                   | 245923                | 3482                    |
| 2004-2005 | 15903             | 852                   | 16755                 | 4274                    |
| 2005-2006 | 1109486           | 4742                  | 1114229               | 6220                    |
| 2006-2007 | 0                 | 0                     | 0                     | 6366                    |
| 2007-2008 | 0                 | 0                     | 0                     | 7303                    |
| 2008-2009 | 555204            | 1737                  | 556941                | 5890                    |
| 2009-2010 | 1223294           | 555                   | 1223848               | 6086                    |
| 2010-2011 | 180622            | 1241                  | 181863                | 5062                    |
| 2011-2012 | 160593            | 762                   | 161354                | 6020                    |
| 2012-2013 | 352683            | 615                   | 353298                | 4572                    |
| 2013-2014 | 524149            | 119                   | 524268                | 7712                    |
| 2014-2015 | 1754817           | 1019                  | 1755837               | 6673                    |
| 2015-2016 | 26844             | 444                   | 27288                 | 3670                    |
| 2016-2017 | 46395             | 316                   | 46711                 | 3532                    |
| 2017-2018 | 59533             | 36                    | 59569                 | 3748                    |
| 2018-2019 | 0                 | 0                     | 0                     | 8257                    |
| 2019-2020 | 0                 | 0                     | 0                     | 7564                    |
| 2020-2021 | 0                 | 0                     | 0                     | 6082                    |
| 2021-2022 | 0                 | 0                     | 0                     | 6467                    |

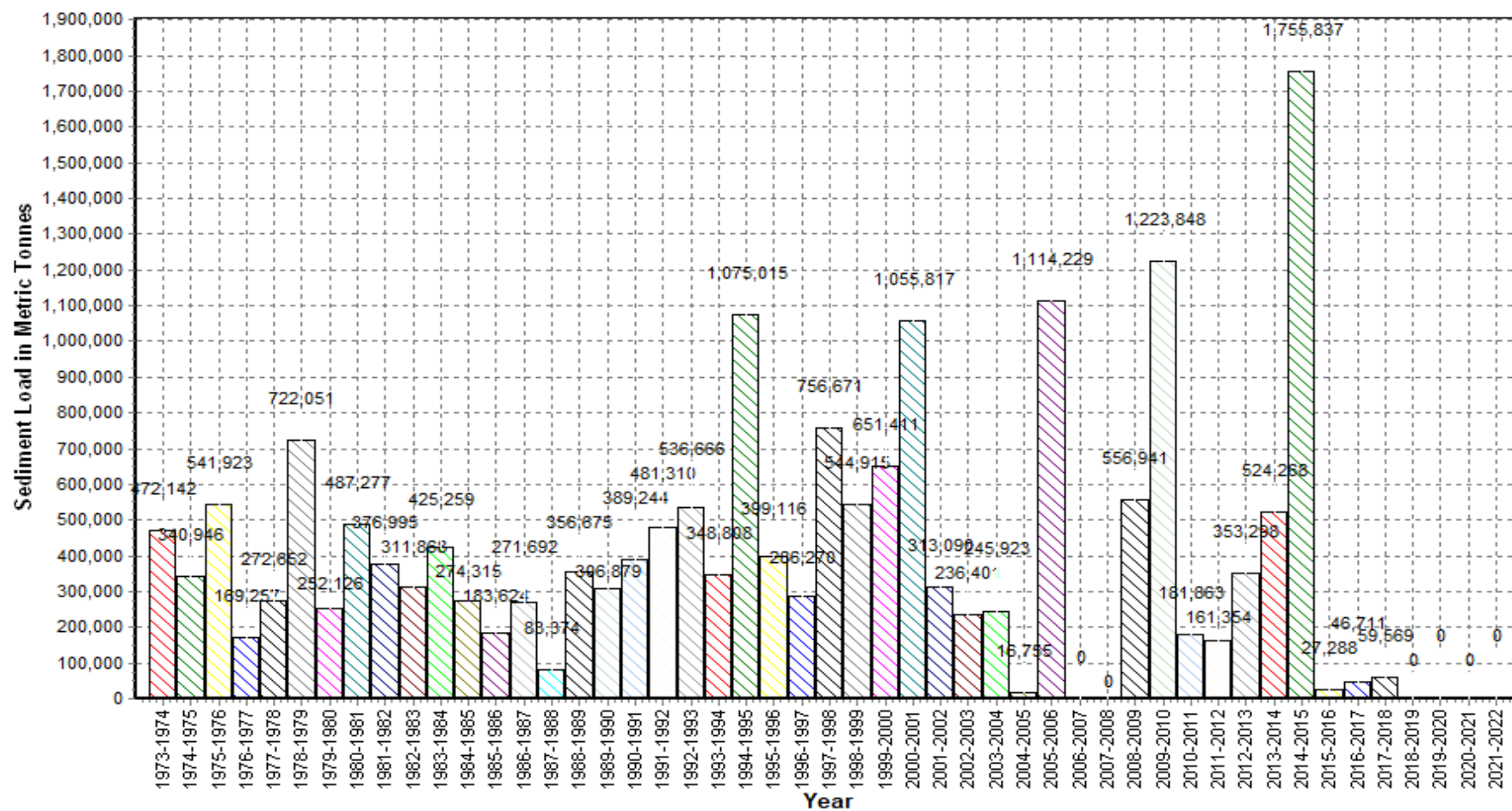
# Annual Sediment Load for the period: 1973-2022

Station Name : SHIMOGA ( AKLD0C6)

Local River : Tunga

Division : Cauvery Division, Bangalore

Sub-Division : Upper Tunga Subdn, Devangere



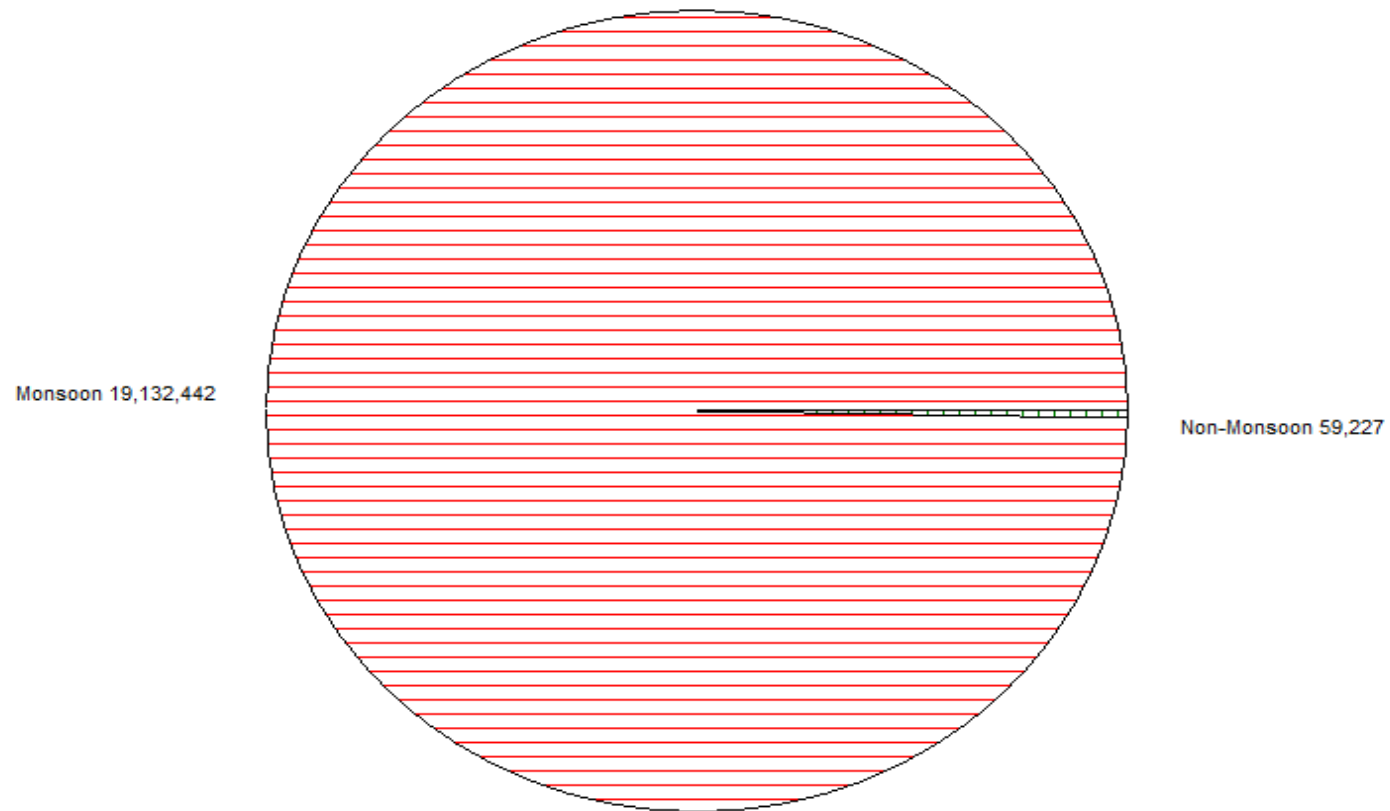
Seasonal Sediment Load for the period : 1973-2021

Station Name : SHIMOGA ( AKLD0C6)

Local River : Tunga

Division : Cauvery Division, Bangalore

Sub-Division : Upper Tunga Subdn, Devangere





## BED MATERIAL ANALYSIS DATA FOR THE YEAR 2021-22

SITE TUNGA AT SHIMOGA CODE : AKLDOC6  
 MEASURING AUTHORITY CDN WATER YEAR : 2021-22

### Premonsoon Survey ( Date 03/05/2021 )

Discharged Observed : **Q observation not done due to No flow** Water edge RB: 88 LB: 282 m  
 Area of section : Mean Velocity - m/sec  
 Wetted Perimeter : Hydraulic Mean Depth - m

| Sl. No. | R.D. of sampling point in meters | R.L. of Dry Bed | R.L. of bed in meters | Mean diameter in mm | Remarks                                        |
|---------|----------------------------------|-----------------|-----------------------|---------------------|------------------------------------------------|
| 1       | 60                               | 563.700         | Dry bed               | 5.15                |                                                |
| 2       | 120                              | --              | 560.820               | 5.00                | Av.mean                                        |
| 3       | 180                              | --              | 560.480               | 4.71                | dia "m" 5.03                                   |
| 4       | 230                              | --              | 561.070               | 3.73                |                                                |
| 5       | 290                              | 563.280         | Dry bed               | 6.56                | Silt factor<br>"f" = 1.76 $\sqrt{m}$<br>= 3.94 |

2.242766  
3.947268

**Note:** i. Discharge observation not done due to No flow.  
 ii. River bed : Stagnant water

### Monsoon Survey (Date 30/10/2021)

Discharged Observed : 101.13 cumec Water edge RB: 80.0 LB: 280.0 m  
 Area of section : 446.185 sq.m Mean Velocity : 0.227 m/sec  
 Wetted Perimeter : 207.36 m Hydraulic Mean Depth : 2.152 m

| Sl. No. | R.D. of sampling point in meters | R.L. of Dry Bed | R.L. of bed in meters | Mean diameter in mm | Remarks                                        |
|---------|----------------------------------|-----------------|-----------------------|---------------------|------------------------------------------------|
| 1       | 60                               | --              | 562.595               | 2.28                |                                                |
| 2       | 120                              | --              | 560.6                 | 6.65                | Av.mean                                        |
| 3       | 180                              | --              | 560.44                | 10.45               | dia "m" 5.02                                   |
| 4       | 230                              | --              | 561.19                | 1.60                |                                                |
| 5       | 290                              | 563.28          | Dry Bed               | 4.17                | Silt factor<br>"f" = 1.76 $\sqrt{m}$<br>= 3.94 |

2.240536  
3.943343

**Note:** i. Discharge observation was at station guage line  
 ii. River bed : Flowing water

### Postmonsoon Survey (Date15/01/2022 )

Discharged Observed : **Q observation not done due to No flow** Water edge RB: 82.0 LB: 310.0 m  
 Area of section : Mean Velocity - m/sec  
 Wetted Perimeter : Hydraulic Mean Depth - m

| Sl. No. | R.D. of sampling point in meters | R.L. of Dry Bed | R.L. of bed in meters | Mean diameter in mm | Remarks                                        |
|---------|----------------------------------|-----------------|-----------------------|---------------------|------------------------------------------------|
| 1       | 60                               | 562.635         | Dry bed               | 1.93                |                                                |
| 2       | 120                              | --              | 560.3                 | 8.06                | Av.mean                                        |
| 3       | 180                              | --              | 560.82                | 7.27                | dia "m" 4.26                                   |
| 4       | 230                              | --              | 561.67                | 3.56                |                                                |
| 5       | 290                              | --              | 561.215               | 0.47                | Silt factor<br>"f" = 1.76 $\sqrt{m}$<br>= 3.63 |

2.063977  
3.632599

**Note:** i. Discharge observation not done due to No flow.  
 ii. River bed : Flowing water

## HISTORY SHEET

|                          |                               |                   |                                |
|--------------------------|-------------------------------|-------------------|--------------------------------|
|                          |                               | <b>Water Year</b> | <b>: 2021-2022</b>             |
| <b>Site</b>              | <b>: HONNALI</b>              | <b>Code</b>       | <b>: AKL00X6</b>               |
| State                    | : Karnataka                   | District          | Davanagere                     |
| Basin                    | : Krishna                     | Independent River | : Krishna                      |
| Tributary                | : Tungabhadra                 | Sub Tributary     | :                              |
| Sub-Sub Tributary        | :                             | Local River       | : Tungabhadra                  |
| Division                 | : Cauvery Division, Bangalore | Sub-Division      | : Upper Tunga Subdn, Devangere |
| Drainage Area            | : 7075 Sq. Km.                | Bank              | : Left                         |
| Latitude                 | : 14°14'14"                   | Longitude         | : 75°39'45"                    |
| <b>Zero of Gauge (m)</b> | : 533.9 (m.s.l)               | 21-06-1978        |                                |
|                          | Opening Date                  | Closing Date      |                                |
| Gauge                    | : 01-06-1980                  |                   |                                |
| Discharge                | : 21-06-1980                  |                   |                                |
| Sediment                 | : 15-09-1995                  |                   |                                |
| Water Quality            | : 02-06-1986                  |                   |                                |

**Daily Observed Sediment Datasheet for period : 2021-2022**

Station Name : HONNALI ( AKL00X6)

Local River : Tungabhadra

Division : Cauvery Division, Bangalore

Sub-Division : Upper Tunga Subdn, Devangere

| Day                   | Jun          |               |               |             |              |                   | Jul          |               |               |             |              |                   | Aug          |               |               |             |              |                   |
|-----------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                       | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1                     | 24.14        | 0.000         | 0.000         | 0.008       | 0.008        | 18                | 112.6        |               |               |             |              |                   | 661.4        |               |               |             |              |                   |
| 2                     | 23.73        | 0.000         | 0.000         | 0.008       | 0.008        | 17                | 105.0        |               |               |             |              |                   | 639.7        |               |               |             |              |                   |
| 3                     | 12.64        | 0.000         | 0.000         | 0.009       | 0.009        | 9                 | 99.59        |               |               |             |              |                   | 480.8        |               |               |             |              |                   |
| 4                     | 25.86        | 0.000         | 0.000         | 0.009       | 0.009        | 19                | 170.3        |               |               |             |              |                   | 520.1        |               |               |             |              |                   |
| 5                     | 27.98        | 0.000         | 0.000         | 0.009       | 0.009        | 22                | 135.1        |               |               |             |              |                   | 1258         |               |               |             |              |                   |
| 6                     | 29.10        |               |               |             |              |                   | 108.8        |               |               |             |              |                   | 1133         |               |               |             |              |                   |
| 7                     | 23.25        | 0.000         | 0.000         | 0.009       | 0.009        | 17                | 114.7        |               |               |             |              |                   | 1334         |               |               |             |              |                   |
| 8                     | 22.94        | 0.000         | 0.000         | 0.008       | 0.008        | 16                | 114.7        |               |               |             |              |                   | 1758         |               |               |             |              |                   |
| 9                     | 19.20        | 0.000         | 0.000         | 0.008       | 0.008        | 14                | 84.00        |               |               |             |              |                   | 1238         |               |               |             |              |                   |
| 10                    | 15.55        | 0.000         | 0.000         | 0.008       | 0.008        | 11                | 75.47        |               |               |             |              |                   | 585.0        |               |               |             |              |                   |
| 11                    | 32.06        | 0.000         | 0.000         | 0.009       | 0.009        | 26                | 77.56        |               |               |             |              |                   | 650.5        |               |               |             |              |                   |
| 12                    | 22.58        | 0.000         | 0.000         | 0.009       | 0.009        | 17                | 114.7        |               |               |             |              |                   | 513.0        |               |               |             |              |                   |
| 13                    | 21.12        |               |               |             |              |                   | 224.3        |               |               |             |              |                   | 609.4        |               |               |             |              |                   |
| 14                    | 26.24        |               | 0.000         |             |              |                   | 343.6        |               |               |             |              |                   | 438.8        |               |               |             |              |                   |
| 15                    | 352.8        |               | 0.000         |             |              |                   | 1133         |               |               |             |              |                   | 452.9        |               |               |             |              |                   |
| 16                    | 342.1        |               | 0.000         |             |              |                   | 1485         |               |               |             |              |                   | 449.1        |               |               |             |              |                   |
| 17                    | 664.7        |               | 0.000         |             |              |                   | 843.6        |               |               |             |              |                   | 445.6        |               |               |             |              |                   |
| 18                    | 1155         |               | 0.000         |             |              |                   | 653.6        |               |               |             |              |                   | 383.3        |               |               |             |              |                   |
| 19                    | 1226         |               | 0.000         |             |              |                   | 1622         |               |               |             |              |                   | 402.7        |               |               |             |              |                   |
| 20                    | 720.9        |               |               |             |              |                   | 901.3        |               |               |             |              |                   | 405.7        |               |               |             |              |                   |
| 21                    | 701.6        |               | 0.000         |             |              |                   | 832.1        |               |               |             |              |                   | 396.5        |               |               |             |              |                   |
| 22                    | 666.7        |               | 0.000         |             |              |                   | 1128         |               |               |             |              |                   | 383.2        |               |               |             |              |                   |
| 23                    | 390.1        |               | 0.000         |             |              |                   | 2361         |               |               |             |              |                   | 285.2        |               |               |             |              |                   |
| 24                    | 285.2        |               | 0.000         |             |              |                   | 4632         |               |               |             |              |                   | 333.7        |               |               |             |              |                   |
| 25                    | 253.5        |               | 0.000         |             |              |                   | 2203         |               |               |             |              |                   | 263.0        |               |               |             |              |                   |
| 26                    | 105.0        |               | 0.000         |             |              |                   | 1321         |               |               |             |              |                   | 269.4        |               |               |             |              |                   |
| 27                    | 87.69        |               | 0.000         |             |              |                   | 873.1        |               |               |             |              |                   | 244.5        |               |               |             |              |                   |
| 28                    | 246.5        |               | 0.000         |             |              |                   | 696.9        |               |               |             |              |                   | 282.9        |               |               |             |              |                   |
| 29                    | 158.3        |               | 0.000         |             |              |                   | 591.4        |               |               |             |              |                   | 310.3        |               |               |             |              |                   |
| 30                    | 112.6        | 0.000         | 0.000         | 0.009       | 0.009        | 86                | 536.0        |               |               |             |              |                   | 445.6        |               |               |             |              |                   |
| 31                    |              |               |               |             |              |                   | 650.5        |               |               |             |              |                   | 472.9        |               |               |             |              |                   |
| <b>Ten Daily Mean</b> |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Ten Daily I           | 22.44        | 0.000         | 0.000         | 0.008       | 0.008        | 16                | 112.0        |               |               |             |              |                   | 960.8        |               |               |             |              |                   |
| Ten Daily II          | 456.3        | 0.000         | 0.000         | 0.009       | 0.009        | 21                | 740.0        |               |               |             |              |                   | 475.1        |               |               |             |              |                   |
| Ten Daily III         | 300.7        | 0.000         | 0.000         | 0.009       | 0.009        | 86                | 1439         |               |               |             |              |                   | 335.2        |               |               |             |              |                   |
| <b>Monthly</b>        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |

Total

271

**Daily Observed Sediment Datasheet for period : 2021-2022**

Station Name : HONNALI ( AKL00X6)

Local River : Tungabhadra

Division : Cauvery Division, Bangalore

Sub-Division : Upper Tunga Subdn, Devangere

| Day                   | Sep          |               |               |             |              |                   | Oct          |               |               |             |              |                   | Nov          |               |               |             |              |                   |
|-----------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                       | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1                     | 402.7        |               |               |             |              |                   | 292.8        |               |               |             |              |                   | 163.4        |               |               |             |              |                   |
| 2                     | 325.9        |               |               |             |              |                   | 250.6        |               |               |             |              |                   | 158.4        |               |               |             |              |                   |
| 3                     | 311.8        |               |               |             |              |                   | 696.1        |               |               |             |              |                   | 154.3        |               |               |             |              |                   |
| 4                     | 320.4        |               |               |             |              |                   | 352.8        |               |               |             |              |                   | 159.2        |               |               |             |              |                   |
| 5                     | 315.2        |               |               |             |              |                   | 369.4        |               |               |             |              |                   | 146.4        |               |               |             |              |                   |
| 6                     | 319.6        |               |               |             |              |                   | 342.1        |               |               |             |              |                   | 146.4        |               |               |             |              |                   |
| 7                     | 327.3        |               |               |             |              |                   | 959.9        |               |               |             |              |                   | 327.7        |               |               |             |              |                   |
| 8                     | 430.8        |               |               |             |              |                   | 566.3        |               |               |             |              |                   | 278.7        |               |               |             |              |                   |
| 9                     | 472.9        |               |               |             |              |                   | 352.8        |               |               |             |              |                   | 286.7        |               |               |             |              |                   |
| 10                    | 613.1        |               |               |             |              |                   | 275.0        |               |               |             |              |                   | 211.5        |               |               |             |              |                   |
| 11                    | 506.6        |               |               |             |              |                   | 315.3        |               |               |             |              |                   | 194.0        |               |               |             |              |                   |
| 12                    | 414.3        |               |               |             |              |                   | 297.4        |               |               |             |              |                   | 190.0        |               |               |             |              |                   |
| 13                    | 791.2        |               |               |             |              |                   | 393.5        |               |               |             |              |                   | 161.7        |               |               |             |              |                   |
| 14                    | 1067         |               |               |             |              |                   | 1128         |               |               |             |              |                   | 159.2        |               |               |             |              |                   |
| 15                    | 1249         |               |               |             |              |                   | 768.7        |               |               |             |              |                   | 165.1        |               |               |             |              |                   |
| 16                    | 758.2        |               |               |             |              |                   | 465.1        |               |               |             |              |                   | 765.2        |               |               |             |              |                   |
| 17                    | 520.1        |               |               |             |              |                   | 325.2        |               |               |             |              |                   | 562.6        |               |               |             |              |                   |
| 18                    | 408.1        |               |               |             |              |                   | 229.7        |               |               |             |              |                   | 688.8        |               |               |             |              |                   |
| 19                    | 335.3        |               |               |             |              |                   | 242.0        |               |               |             |              |                   | 688.3        |               |               |             |              |                   |
| 20                    | 306.1        |               |               |             |              |                   | 236.6        |               |               |             |              |                   | 812.9        |               |               |             |              |                   |
| 21                    | 295.1        |               |               |             |              |                   | 210.4        |               |               |             |              |                   | 727.8        |               |               |             |              |                   |
| 22                    | 253.5        |               |               |             |              |                   | 295.1        |               |               |             |              |                   | 475.6        |               |               |             |              |                   |
| 23                    | 244.2        |               |               |             |              |                   | 525.4        |               |               |             |              |                   | 334.4        |               |               |             |              |                   |
| 24                    | 244.2        |               |               |             |              |                   | 536.2        |               |               |             |              |                   | 242.6        |               |               |             |              |                   |
| 25                    | 241.6        |               |               |             |              |                   | 553.7        |               |               |             |              |                   | 273.8        |               |               |             |              |                   |
| 26                    | 239.9        |               |               |             |              |                   | 456.0        |               |               |             |              |                   | 321.9        |               |               |             |              |                   |
| 27                    | 227.3        |               |               |             |              |                   | 356.6        |               |               |             |              |                   | 299.8        |               |               |             |              |                   |
| 28                    | 192.8        |               |               |             |              |                   | 267.3        |               |               |             |              |                   | 340.5        |               |               |             |              |                   |
| 29                    | 192.8        |               |               |             |              |                   | 212.6        |               |               |             |              |                   | 278.8        |               |               |             |              |                   |
| 30                    | 277.7        |               |               |             |              |                   | 175.4        |               |               |             |              |                   | 256.2        |               |               |             |              |                   |
| 31                    |              |               |               |             |              |                   | 179.8        |               |               |             |              |                   |              |               |               |             |              |                   |
| <u>Ten Daily Mean</u> |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Ten Daily I           | 384.0        |               |               |             |              |                   | 445.8        |               |               |             |              |                   | 203.3        |               |               |             |              |                   |
| Ten Daily II          | 635.6        |               |               |             |              |                   | 440.2        |               |               |             |              |                   | 438.8        |               |               |             |              |                   |
| Ten Daily III         | 240.9        |               |               |             |              |                   | 342.6        |               |               |             |              |                   | 355.1        |               |               |             |              |                   |
| <u>Monthly</u>        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |

Total

Annual Sediment Load (Metric Tonnes) : 271

**Daily Observed Sediment Datasheet for period : 2021-2022**

Station Name : HONNALI ( AKL00X6)

Local River : Tungabhadra

Division : Cauvery Division, Bangalore

Sub-Division : Upper Tunga Subdn, Devangere

| Day                   | Dec          |               |               |             |              |                   | Jan          |               |               |             |              |                   | Feb          |               |               |             |              |                   |
|-----------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                       | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1                     | 208.7        |               |               |             |              |                   | 79.93        |               |               |             |              |                   | 69.75        |               |               |             |              |                   |
| 2                     | 198.7        |               |               |             |              |                   | 68.38        |               |               |             |              |                   | 75.66        |               |               |             |              |                   |
| 3                     | 152.4        |               |               |             |              |                   | 69.71        |               |               |             |              |                   | 66.96        |               |               |             |              |                   |
| 4                     | 192.5        |               |               |             |              |                   | 66.82        |               |               |             |              |                   | 59.97        |               |               |             |              |                   |
| 5                     | 198.0        |               |               |             |              |                   | 63.47        |               |               |             |              |                   | 59.97        |               |               |             |              |                   |
| 6                     | 178.3        |               |               |             |              |                   | 63.47        |               |               |             |              |                   | 59.70        |               |               |             |              |                   |
| 7                     | 170.0        |               |               |             |              |                   | 61.08        |               |               |             |              |                   | 55.02        |               |               |             |              |                   |
| 8                     | 160.5        |               |               |             |              |                   | 54.99        |               |               |             |              |                   | 53.72        |               |               |             |              |                   |
| 9                     | 256.2        |               |               |             |              |                   | 54.99        |               |               |             |              |                   | 53.72        |               |               |             |              |                   |
| 10                    | 167.6        |               |               |             |              |                   | 62.12        |               |               |             |              |                   | 53.72        |               |               |             |              |                   |
| 11                    | 156.9        |               |               |             |              |                   | 66.82        |               |               |             |              |                   | 52.40        |               |               |             |              |                   |
| 12                    | 146.4        |               |               |             |              |                   | 71.78        |               |               |             |              |                   | 52.40        |               |               |             |              |                   |
| 13                    | 150.6        |               |               |             |              |                   | 75.52        |               |               |             |              |                   | 52.71        |               |               |             |              |                   |
| 14                    | 150.6        |               |               |             |              |                   | 70.96        |               |               |             |              |                   | 52.40        |               |               |             |              |                   |
| 15                    | 146.4        |               |               |             |              |                   | 77.52        |               |               |             |              |                   | 51.99        |               |               |             |              |                   |
| 16                    | 142.1        |               |               |             |              |                   | 74.93        |               |               |             |              |                   | 75.66        |               |               |             |              |                   |
| 17                    | 130.3        |               |               |             |              |                   | 74.08        |               |               |             |              |                   | 83.31        |               |               |             |              |                   |
| 18                    | 130.3        |               |               |             |              |                   | 74.08        |               |               |             |              |                   | 85.82        |               |               |             |              |                   |
| 19                    | 126.9        |               |               |             |              |                   | 74.08        |               |               |             |              |                   | 84.03        |               |               |             |              |                   |
| 20                    | 119.8        |               |               |             |              |                   | 69.71        |               |               |             |              |                   | 76.26        |               |               |             |              |                   |
| 21                    | 115.6        |               |               |             |              |                   | 69.71        |               |               |             |              |                   | 63.61        |               |               |             |              |                   |
| 22                    | 115.6        |               |               |             |              |                   | 69.71        |               |               |             |              |                   | 57.60        |               |               |             |              |                   |
| 23                    | 109.8        |               |               |             |              |                   | 68.38        |               |               |             |              |                   | 56.46        |               |               |             |              |                   |
| 24                    | 126.1        |               |               |             |              |                   | 66.82        |               |               |             |              |                   | 55.02        |               |               |             |              |                   |
| 25                    | 135.6        |               |               |             |              |                   | 61.27        |               |               |             |              |                   | 52.40        |               |               |             |              |                   |
| 26                    | 135.6        |               |               |             |              |                   | 57.32        |               |               |             |              |                   | 51.99        |               |               |             |              |                   |
| 27                    | 113.0        |               |               |             |              |                   | 57.60        |               |               |             |              |                   | 51.59        |               |               |             |              |                   |
| 28                    | 105.3        |               |               |             |              |                   | 55.23        |               |               |             |              |                   | 51.99        |               |               |             |              |                   |
| 29                    | 92.75        |               |               |             |              |                   | 55.23        |               |               |             |              |                   |              |               |               |             |              |                   |
| 30                    | 90.08        |               |               |             |              |                   | 57.32        |               |               |             |              |                   |              |               |               |             |              |                   |
| 31                    | 86.50        |               |               |             |              |                   | 63.61        |               |               |             |              |                   |              |               |               |             |              |                   |
| <u>Ten Daily Mean</u> |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Ten Daily I           | 188.3        |               |               |             |              |                   | 64.50        |               |               |             |              |                   | 60.82        |               |               |             |              |                   |
| Ten Daily II          | 140.0        |               |               |             |              |                   | 72.95        |               |               |             |              |                   | 66.70        |               |               |             |              |                   |
| Ten Daily III         | 111.4        |               |               |             |              |                   | 62.02        |               |               |             |              |                   | 55.08        |               |               |             |              |                   |
| <u>Monthly</u>        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |

Total

**Daily Observed Sediment Datasheet for period : 2021-2022**

**Station Name : HONNALI ( AKL00X6)**

**Local River : Tungabhadra**

**Division : Cauvery Division, Bangalore**

**Sub-Division : Upper Tunga Subdn, Devangere**

| Day                   | Mar          |               |               |             |              |                   | Apr          |               |               |             |              |                   | May          |               |               |             |              |                   |
|-----------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                       | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1                     | 51.91        |               |               |             |              |                   | 42.11        |               |               |             |              |                   | 63.35        |               |               |             |              |                   |
| 2                     | 51.99        |               |               |             |              |                   | 40.32        |               |               |             |              |                   | 63.35        |               |               |             |              |                   |
| 3                     | 49.97        |               |               |             |              |                   | 40.97        |               |               |             |              |                   | 63.61        |               |               |             |              |                   |
| 4                     | 49.97        |               |               |             |              |                   | 40.32        |               |               |             |              |                   | 56.46        |               |               |             |              |                   |
| 5                     | 49.97        |               |               |             |              |                   | 40.32        |               |               |             |              |                   | 52.40        |               |               |             |              |                   |
| 6                     | 46.31        |               |               |             |              |                   | 40.32        |               |               |             |              |                   | 59.97        |               |               |             |              |                   |
| 7                     | 44.41        |               |               |             |              |                   | 37.98        |               |               |             |              |                   | 90.76        |               |               |             |              |                   |
| 8                     | 42.11        |               |               |             |              |                   | 37.98        |               |               |             |              |                   | 100.8        |               |               |             |              |                   |
| 9                     | 40.32        |               |               |             |              |                   | 38.99        |               |               |             |              |                   | 124.1        |               |               |             |              |                   |
| 10                    | 40.32        |               |               |             |              |                   | 38.99        |               |               |             |              |                   | 148.3        |               |               |             |              |                   |
| 11                    | 37.98        |               |               |             |              |                   | 37.98        |               |               |             |              |                   | 133.9        |               |               |             |              |                   |
| 12                    | 38.99        |               |               |             |              |                   | 37.98        |               |               |             |              |                   | 157.7        |               |               |             |              |                   |
| 13                    | 38.99        |               |               |             |              |                   | 37.98        |               |               |             |              |                   | 133.9        |               |               |             |              |                   |
| 14                    | 36.13        |               |               |             |              |                   | 38.99        |               |               |             |              |                   | 139.2        |               |               |             |              |                   |
| 15                    | 36.13        |               |               |             |              |                   | 63.35        |               |               |             |              |                   | 126.9        |               |               |             |              |                   |
| 16                    | 36.13        |               |               |             |              |                   | 83.31        |               |               |             |              |                   | 90.31        |               |               |             |              |                   |
| 17                    | 34.10        |               |               |             |              |                   | 52.15        |               |               |             |              |                   | 63.61        |               |               |             |              |                   |
| 18                    | 34.10        |               |               |             |              |                   | 101.8        |               |               |             |              |                   | 171.5        |               |               |             |              |                   |
| 19                    | 34.10        |               |               |             |              |                   | 95.72        |               |               |             |              |                   | 169.4        |               |               |             |              |                   |
| 20                    | 35.16        |               |               |             |              |                   | 84.65        |               |               |             |              |                   | 1397         |               |               |             |              |                   |
| 21                    | 35.22        |               |               |             |              |                   | 83.07        |               |               |             |              |                   | 708.0        |               |               |             |              |                   |
| 22                    | 35.22        |               |               |             |              |                   | 72.17        |               |               |             |              |                   | 361.5        |               |               |             |              |                   |
| 23                    | 35.22        |               |               |             |              |                   | 72.17        |               |               |             |              |                   | 193.2        |               |               |             |              |                   |
| 24                    | 59.97        |               |               |             |              |                   | 69.66        |               |               |             |              |                   | 168.4        |               |               |             |              |                   |
| 25                    | 63.61        |               |               |             |              |                   | 59.97        |               |               |             |              |                   | 96.22        |               |               |             |              |                   |
| 26                    | 63.61        |               |               |             |              |                   | 63.61        |               |               |             |              |                   | 72.17        |               |               |             |              |                   |
| 27                    | 63.35        |               |               |             |              |                   | 56.15        |               |               |             |              |                   | 49.84        |               |               |             |              |                   |
| 28                    | 59.97        |               |               |             |              |                   | 52.40        |               |               |             |              |                   | 40.32        |               |               |             |              |                   |
| 29                    | 52.40        |               |               |             |              |                   | 49.97        |               |               |             |              |                   | 40.97        |               |               |             |              |                   |
| 30                    | 49.97        |               |               |             |              |                   | 59.97        |               |               |             |              |                   | 40.32        |               |               |             |              |                   |
| 31                    | 45.19        |               |               |             |              |                   |              |               |               |             |              |                   | 40.32        |               |               |             |              |                   |
| <u>Ten Daily Mean</u> |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Ten Daily I           | 46.73        |               |               |             |              |                   | 39.83        |               |               |             |              |                   | 82.31        |               |               |             |              |                   |
| Ten Daily II          | 36.18        |               |               |             |              |                   | 63.39        |               |               |             |              |                   | 258.4        |               |               |             |              |                   |
| Ten Daily III         | 51.25        |               |               |             |              |                   | 63.91        |               |               |             |              |                   | 164.7        |               |               |             |              |                   |
| <u>Monthly</u>        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |

Total

**Annual Sediment Load for period : 1996-2022**

**Station Name : HONNALI ( AKL00X6)**

**Division : Cauvery Division, Bangalore**

**Local River : Tungabhadra**

**Sub-Division : Upper Tunga Subdn, Devangere**

| Year      | Monsoon<br>(M.T.) | Non-Monsoon<br>(M.T.) | Annual Load<br>(M.T.) | Annual Run Off<br>(MCM) |
|-----------|-------------------|-----------------------|-----------------------|-------------------------|
| 1996-1997 | 224985            | 5149                  | 230134                | 4866                    |
| 1997-1998 | 348857            | 23009                 | 371865                | 7746                    |
| 1998-1999 | 457189            | 59834                 | 517024                | 6998                    |
| 1999-2000 | 692482            | 48388                 | 740869                | 7742                    |
| 2000-2001 | 452253            | 35776                 | 488029                | 6895                    |
| 2001-2002 | 125156            | 2370                  | 127526                | 4540                    |
| 2002-2003 | 172491            | 1670                  | 174162                | 3977                    |
| 2003-2004 | 126893            | 1811                  | 128705                | 3768                    |
| 2004-2005 | 439648            | 3010                  | 442658                | 8670                    |
| 2005-2006 | 431210            | 3566                  | 434775                | 4987                    |
| 2006-2007 | 0                 | 0                     | 0                     | 8371                    |
| 2007-2008 | 0                 | 0                     | 0                     | 11087                   |
| 2008-2009 | 786115            | 11365                 | 797479                | 7604                    |
| 2009-2010 | 533867            | 5612                  | 539479                | 7775                    |
| 2010-2011 | 266135            | 3412                  | 269547                | 6727                    |
| 2011-2012 | 386765            | 8392                  | 395157                | 7219                    |
| 2012-2013 | 191855            | 1311                  | 193166                | 4951                    |
| 2013-2014 | 257693            | 2351                  | 260044                | 9594                    |
| 2014-2015 | 252989            | 2882                  | 255871                | 7944                    |
| 2015-2016 | 58496             | 5038                  | 63535                 | 4936                    |
| 2016-2017 | 32476             | 3864                  | 36339                 | 3900                    |
| 2017-2018 | 28243             | 7337                  | 35580                 | 3851                    |
| 2018-2019 | 460               | 5453                  | 5914                  | 9680                    |
| 2019-2020 | 599               | 4925                  | 5524                  | 9178                    |
| 2020-2021 | 77933             | 6966                  | 84900                 | 6825                    |
| 2021-2022 | 271               | 0                     | 271                   | 8809                    |

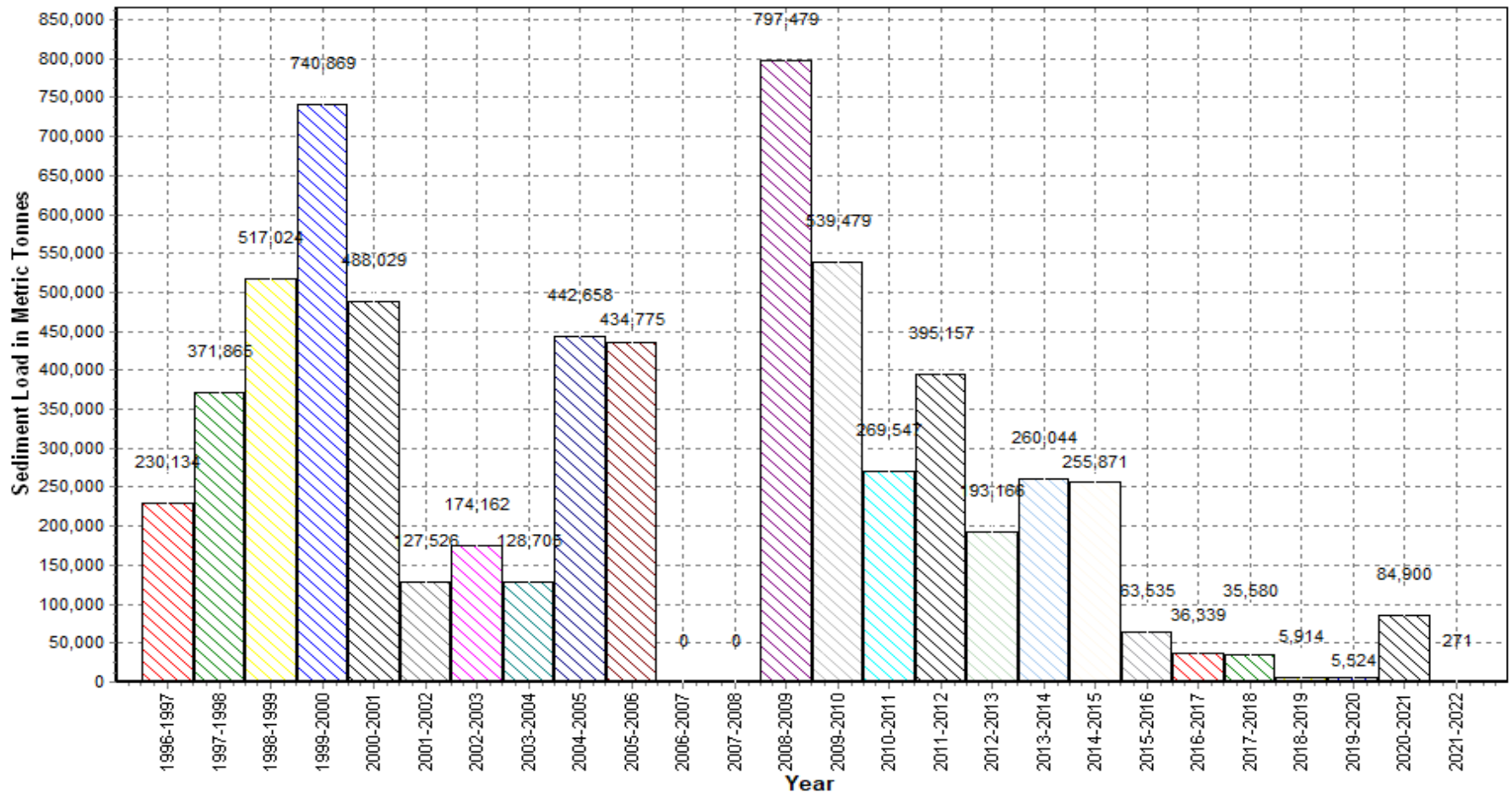
# Annual Sediment Load for the period: 1996-2022

Station Name : HONNALI ( AKL00X6)

Local River : Tungabhadra

Division : Cauvery Division, Bangalore

Sub-Division : Upper Tunga Subdn, Devangere





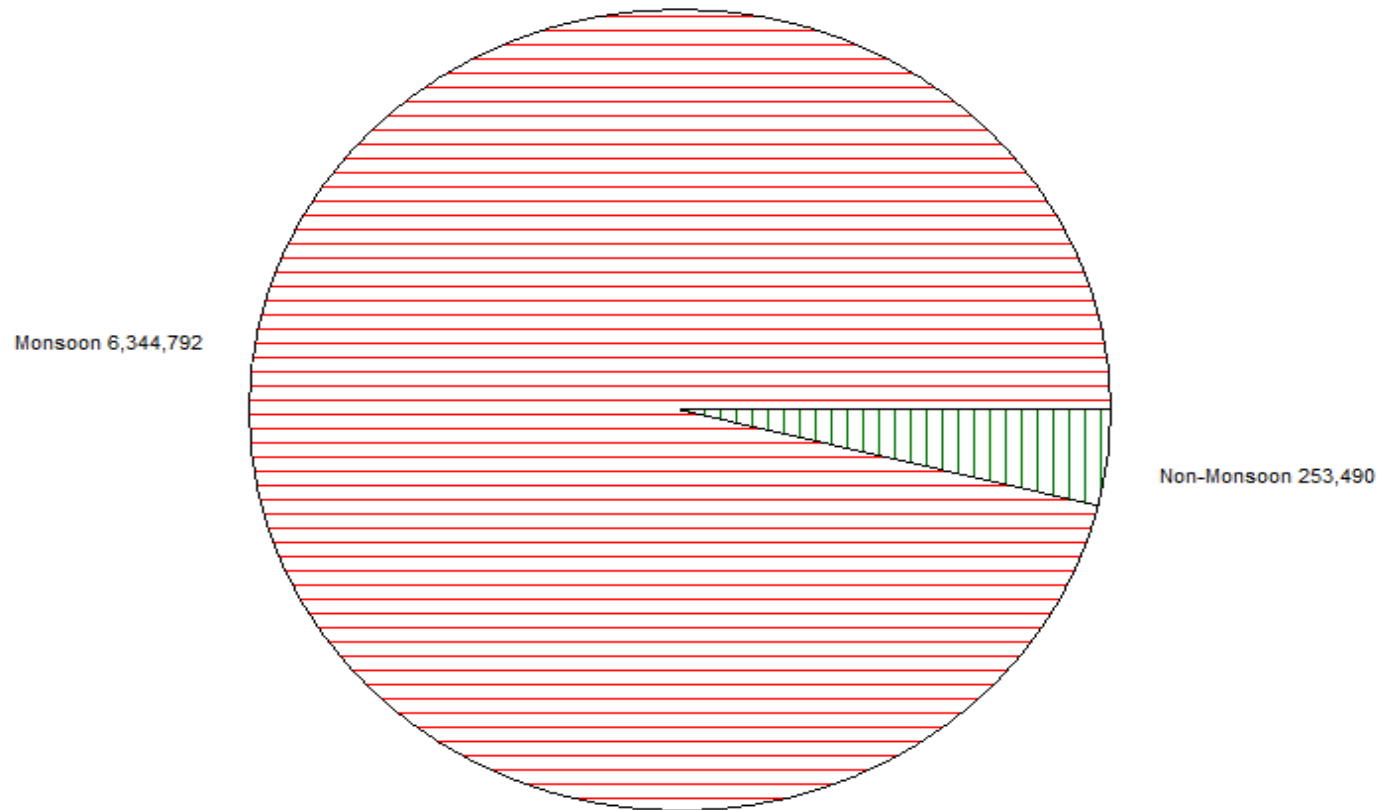
Seasonal Sediment Load for the period : 1996-2021

Station Name : HONNALI ( AKL00X6)

Local River : Tungabhadra

Division : Cauvery Division, Bangalore

Sub-Division : Upper Tunga Subdn, Devangere



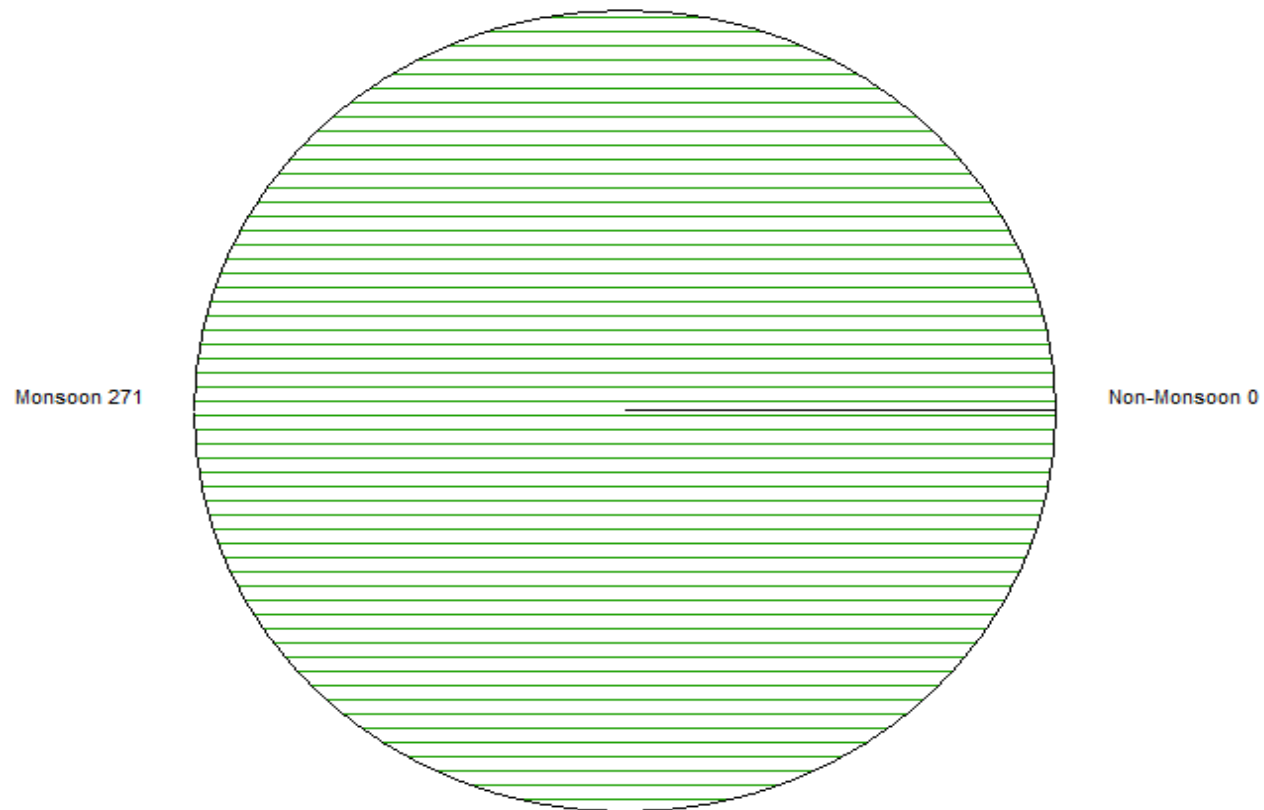
Seasonal Sediment Load for the Year: 2021-2022

Station Name : HONNALI ( AKL00X6)

Local River : Tungabhadra

Division : Cauvery Division, Bangalore

Sub-Division : Upper Tunga Subdn, Devangere



## BED MATERIAL ANALYSIS DATA FOR THE YEAR 2021-22

SITE : TUNGABHADRA AT HONNALI CODE : AKL00X6  
 MEASURING AUTHORITY :CDN WATER YEAR : 2021-22

### Premonsoon Survey ( Date 01/06/2021 )

Discharged Observed : 24.14 cumec Water edge RB: 265.0 LB: 55.0 m  
 Area of section : 348.08 sq.m Mean Velocity 0.069 m/sec  
 Wetted Perimeter : 210.32 m Hydraulic Mean Depth 1.655 m

| Sl. No. | R.D. of sampling point in meters | R.L. of Dry Bed | R.L. of bed in meters | Mean diameter in mm | Remarks                                        |
|---------|----------------------------------|-----------------|-----------------------|---------------------|------------------------------------------------|
| 1       | 60                               | --              | 537.240               | 4.37                |                                                |
| 2       | 120                              | --              | 535.170               | 4.38                | Av.mean                                        |
| 3       | 180                              | --              | 536.720               | 1.24                | dia "m" 3.49                                   |
| 4       | 240                              | --              | 536.520               | 3.79                |                                                |
| 5       | 300                              | 543.745         | Dry bed               | 3.67                | Silt factor<br>"f" = 1.76 $\sqrt{m}$<br>= 3.29 |

1.868154  
3.287951

**Note:**  
 i. Discharge observation was at station guage line  
 ii. River bed : Flowing water

### Monsoon Survey ( Date 27/10/2021 )

Discharged Observed : 330.00 cumec Water edge RB: 283.0 LB: 44.0 m  
 Area of section : 774.73 sq.m Mean Velocity : 0.426 m/sec  
 Wetted Perimeter : 237.60 m Hydraulic Mean Depth : 3.261 m

| Sl. No. | R.D. of sampling point in meters | R.L. of Dry Bed | R.L. of bed in meters | Mean diameter in mm | Remarks                                        |
|---------|----------------------------------|-----------------|-----------------------|---------------------|------------------------------------------------|
| 1       | 60                               | ---             | 537.200               | 6.06                |                                                |
| 2       | 120                              | ---             | 535.130               | 6.48                | Av.mean                                        |
| 3       | 180                              | ---             | 536.680               | 1.22                | dia "m" 4.16                                   |
| 4       | 240                              | ---             | 536.580               | 3.76                |                                                |
| 5       | 300                              | 543.745         | Dry Bed               | 3.26                | Silt factor<br>"f" = 1.76 $\sqrt{m}$<br>= 3.59 |

2.039608  
3.58971

**Note:**  
 i. Discharge observation was at station guage line  
 ii. River bed : Flowing water

### Postmonsoon Survey (Date 15/01/2022)

Discharged Observed : 77.5 cumec Water edge RB: 290.0 LB: 50.0 m  
 Area of section : 219.395 sq.m Mean Velocity 0.162 m/sec  
 Wetted Perimeter : 219.40 m Hydraulic Mean Depth 2.185 m

| Sl. No. | R.D. of sampling point in meters | R.L. of Dry Bed | R.L. of bed in meters | Mean diameter in mm | Remarks                                        |
|---------|----------------------------------|-----------------|-----------------------|---------------------|------------------------------------------------|
| 1       | 60                               | --              | 537.450               | 4.35                |                                                |
| 2       | 120                              | --              | 535.150               | 6.87                | Av.mean                                        |
| 3       | 180                              | --              | 536.665               | 2.37                | dia "m" 4.12                                   |
| 4       | 240                              | --              | 536.605               | 3.69                |                                                |
| 5       | 300                              | 543.745         | 0.000                 | 3.32                | Silt factor<br>"f" = 1.76 $\sqrt{m}$<br>= 3.57 |

2.029778  
3.57241

**Note:**  
 i. Discharge observation was at station guage line  
 ii. River bed : Flowing water

## HISTORY SHEET

|                          |                                                  |                   |                             |
|--------------------------|--------------------------------------------------|-------------------|-----------------------------|
|                          |                                                  | <b>Water Year</b> | <b>: 2021-2022</b>          |
| <b>Site</b>              | <b>: KUPPELUR</b>                                | <b>Code</b>       | <b>: AKLC0B8</b>            |
| State                    | : Karnataka                                      | District          | Haveri                      |
| Basin                    | : Krishna                                        | Independent River | : Krishna                   |
| Tributary                | : Tungabhadra                                    | Sub Tributary     | :                           |
| Sub-Sub Tributary        | :                                                | Local River       | : Kumudavathi               |
| Division                 | : Cauvery Division, Bangalore                    | Sub-Division      | : Upper Tunga SD, Devangere |
| Drainage Area            | : 1850 Sq. Km.                                   | Bank              | : Left                      |
| Latitude                 | : 14°30'00"                                      | Longitude         | : 75°38'02"                 |
| <b>Zero of Gauge (m)</b> | : 93 (m.s.l)<br>531.67 (m.s.l)<br>531.67 (m.s.l) | 01-06-1990        | - 31-05-1995                |
|                          |                                                  | 01-06-1995        | 31-05-2010                  |
|                          |                                                  | 01-06-2010        |                             |
|                          | Opening Date                                     | Closing Date      |                             |
| Gauge                    | : 01-06-1990                                     |                   |                             |
| Discharge                | : 24-07-1990                                     |                   |                             |
| Sediment                 | : 23-07-2014                                     |                   |                             |
| Water Quality            | : 01-07-1994                                     |                   |                             |

**Daily Observed Sediment Datasheet for period : 2021-2022**

Station Name : KUPPELUR ( AKLC0B8)

Local River : Kumudavathi

Division : Cauvery Division, Bangalore

Sub-Division : Upper Tunga SD, Devangere

| Day                   | Jun          |               |               |             |              |                   | Jul          |               |               |             |              |                   | Aug          |               |               |             |              |                   |
|-----------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                       | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1                     | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 67.46        |               |               |             |              |                   |
| 2                     | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 62.98        | 0.000         | 0.000         | 0.045       | 0.045        | 246               |
| 3                     | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 60.68        | 0.000         | 0.000         | 0.044       | 0.044        | 231               |
| 4                     | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 54.72        | 0.000         | 0.000         | 0.047       | 0.047        | 221               |
| 5                     | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 53.83        | 0.000         | 0.000         | 0.046       | 0.046        | 215               |
| 6                     | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 53.27        | 0.000         | 0.000         | 0.045       | 0.045        | 207               |
| 7                     | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 54.39        | 0.000         | 0.000         | 0.046       | 0.046        | 216               |
| 8                     | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 58.70        |               |               |             |              |                   |
| 9                     | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 62.23        | 0.000         | 0.000         | 0.048       | 0.048        | 259               |
| 10                    | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 64.60        | 0.000         | 0.000         | 0.046       | 0.046        | 258               |
| 11                    | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 54.53        | 0.000         | 0.000         | 0.046       | 0.046        | 216               |
| 12                    | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 53.54        | 0.000         | 0.000         | 0.046       | 0.046        | 213               |
| 13                    | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 52.76        | 0.000         | 0.000         | 0.045       | 0.045        | 204               |
| 14                    | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 52.52        | 0.000         | 0.000         | 0.045       | 0.045        | 203               |
| 15                    | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 50.63        |               |               |             |              |                   |
| 16                    | 0.000        |               |               |             |              |                   | 15.87        | 0.000         | 0.000         | 0.011       | 0.011        | 16                | 51.45        | 0.000         | 0.000         | 0.043       | 0.043        | 193               |
| 17                    | 0.000        |               |               |             |              |                   | 51.81        | 0.000         | 0.000         | 0.039       | 0.039        | 173               | 51.76        | 0.000         | 0.000         | 0.043       | 0.043        | 191               |
| 18                    | 0.000        |               |               |             |              |                   | 54.89        |               |               |             |              |                   | 54.43        | 0.000         | 0.000         | 0.045       | 0.045        | 209               |
| 19                    | 0.000        |               |               |             |              |                   | 61.16        | 0.000         | 0.000         | 0.046       | 0.046        | 241               | 62.87        | 0.000         | 0.000         | 0.044       | 0.044        | 237               |
| 20                    | 0.000        |               |               |             |              |                   | 63.28        | 0.000         | 0.000         | 0.045       | 0.045        | 248               | 58.70        |               |               |             |              |                   |
| 21                    | 0.000        |               |               |             |              |                   | 67.46        |               |               |             |              |                   | 53.42        | 0.000         | 0.000         | 0.044       | 0.044        | 204               |
| 22                    | 0.000        |               |               |             |              |                   | 65.41        | 0.000         | 0.000         | 0.046       | 0.046        | 261               | 49.45        |               |               |             |              |                   |
| 23                    | 0.000        |               |               |             |              |                   | 160.2        | 0.000         | 0.000         | 0.045       | 0.045        | 623               | 45.30        | 0.000         | 0.000         | 0.042       | 0.042        | 163               |
| 24                    | 0.000        |               |               |             |              |                   | 868.0        |               |               |             |              |                   | 43.27        | 0.000         | 0.000         | 0.041       | 0.041        | 152               |
| 25                    | 0.000        |               |               |             |              |                   | 871.0        |               |               |             |              |                   | 42.40        | 0.000         | 0.000         | 0.040       | 0.040        | 145               |
| 26                    | 0.000        |               |               |             |              |                   | 451.6        |               |               |             |              |                   | 41.29        | 0.000         | 0.000         | 0.039       | 0.039        | 137               |
| 27                    | 0.000        |               |               |             |              |                   | 339.8        |               |               |             |              |                   | 40.85        | 0.000         | 0.000         | 0.038       | 0.038        | 132               |
| 28                    | 0.000        |               |               |             |              |                   | 174.9        | 0.000         | 0.000         | 0.048       | 0.048        | 724               | 40.72        | 0.000         | 0.000         | 0.038       | 0.038        | 133               |
| 29                    | 0.000        |               |               |             |              |                   | 76.92        | 0.000         | 0.000         | 0.048       | 0.048        | 317               | 38.01        |               |               |             |              |                   |
| 30                    | 0.000        |               |               |             |              |                   | 71.06        | 0.000         | 0.000         | 0.045       | 0.045        | 276               | 40.05        | 0.000         | 0.000         | 0.037       | 0.037        | 128               |
| 31                    |              |               |               |             |              |                   | 66.55        | 0.000         | 0.000         | 0.045       | 0.045        | 256               | 38.15        | 0.000         | 0.000         | 0.040       | 0.040        | 131               |
| <b>Ten Daily Mean</b> |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| <b>Ten Daily I</b>    | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 59.29        | 0.000         | 0.000         | 0.046       | 0.046        | 232               |
| <b>Ten Daily II</b>   | 0.000        |               |               |             |              |                   | 24.70        | 0.000         | 0.000         | 0.035       | 0.035        | 170               | 54.32        | 0.000         | 0.000         | 0.044       | 0.044        | 208               |
| <b>Ten Daily III</b>  | 0.000        |               |               |             |              |                   | 292.1        | 0.000         | 0.000         | 0.046       | 0.046        | 410               | 42.99        | 0.000         | 0.000         | 0.040       | 0.040        | 147               |
| <b>Monthly</b>        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| <b>Total</b>          |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
|                       |              |               |               |             |              |                   |              |               |               |             |              |                   | 3136         |               |               |             |              |                   |
|                       |              |               |               |             |              |                   |              |               |               |             |              |                   | 4846         |               |               |             |              |                   |

**Daily Observed Sediment Datasheet for period : 2021-2022**

Station Name : KUPPELUR ( AKLC0B8)

Local River : Kumudavathi

Division : Cauvery Division, Bangalore

Sub-Division : Upper Tunga SD, Devangere

| Day            | Sep          |               |               |             |              |                   | Oct          |               |               |             |              |                   | Nov          |               |               |             |              |                   |
|----------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1              | 37.48        | 0.000         | 0.000         | 0.039       | 0.039        | 126               | 28.18        | 0.000         | 0.000         | 0.023       | 0.023        | 55                | 42.60        | 0.000         | 0.000         | 0.052       | 0.052        | 191               |
| 2              | 36.59        | 0.000         | 0.000         | 0.039       | 0.039        | 122               | 33.16        |               |               |             |              |                   | 40.19        | 0.000         | 0.000         | 0.052       | 0.052        | 179               |
| 3              | 36.27        | 0.000         | 0.000         | 0.037       | 0.037        | 117               | 35.54        |               |               |             |              |                   | 38.50        | 0.000         | 0.000         | 0.050       | 0.050        | 165               |
| 4              | 31.00        | 0.000         | 0.000         | 0.036       | 0.036        | 97                | 53.47        | 0.000         | 0.000         | 0.087       | 0.087        | 404               | 36.51        |               |               |             |              |                   |
| 5              | 31.78        |               |               |             |              |                   | 52.23        | 0.000         | 0.000         | 0.076       | 0.076        | 343               | 34.17        | 0.000         | 0.000         | 0.050       | 0.050        | 147               |
| 6              | 29.60        | 0.000         | 0.000         | 0.033       | 0.033        | 85                | 78.89        | 0.000         | 0.000         | 0.071       | 0.071        | 485               | 36.38        | 0.000         | 0.000         | 0.050       | 0.050        | 156               |
| 7              | 29.55        | 0.000         | 0.000         | 0.032       | 0.032        | 80                | 105.6        | 0.000         | 0.000         | 0.064       | 0.064        | 581               | 34.57        |               |               |             |              |                   |
| 8              | 36.35        | 0.000         | 0.000         | 0.029       | 0.029        | 91                | 322.3        |               |               |             |              |                   | 34.37        | 0.000         | 0.000         | 0.048       | 0.048        | 143               |
| 9              | 36.91        | 0.000         | 0.000         | 0.029       | 0.029        | 91                | 171.5        | 0.000         | 0.000         | 0.063       | 0.063        | 928               | 31.38        | 0.000         | 0.000         | 0.046       | 0.046        | 124               |
| 10             | 33.16        |               |               |             |              |                   | 138.5        |               |               |             |              |                   | 30.08        | 0.000         | 0.000         | 0.045       | 0.045        | 116               |
| 11             | 31.03        | 0.000         | 0.000         | 0.029       | 0.029        | 77                | 120.3        | 0.000         | 0.000         | 0.048       | 0.048        | 494               | 29.07        | 0.000         | 0.000         | 0.045       | 0.045        | 114               |
| 12             | 31.78        |               |               |             |              |                   | 84.59        | 0.000         | 0.000         | 0.059       | 0.059        | 430               | 35.58        | 0.000         | 0.000         | 0.047       | 0.047        | 144               |
| 13             | 28.78        | 0.000         | 0.000         | 0.029       | 0.029        | 72                | 71.42        | 0.000         | 0.000         | 0.051       | 0.051        | 313               | 35.79        | 0.000         | 0.000         | 0.047       | 0.047        | 144               |
| 14             | 27.41        | 0.000         | 0.000         | 0.027       | 0.027        | 65                | 65.08        | 0.000         | 0.000         | 0.048       | 0.048        | 271               | 36.51        |               |               |             |              |                   |
| 15             | 38.26        | 0.000         | 0.000         | 0.028       | 0.028        | 94                | 67.46        |               |               |             |              |                   | 39.65        | 0.000         | 0.000         | 0.049       | 0.049        | 169               |
| 16             | 53.51        | 0.000         | 0.000         | 0.023       | 0.023        | 108               | 63.10        | 0.000         | 0.000         | 0.047       | 0.047        | 257               | 38.64        | 0.000         | 0.000         | 0.050       | 0.050        | 168               |
| 17             | 52.39        | 0.000         | 0.000         | 0.022       | 0.022        | 100               | 61.99        |               |               |             |              |                   | 363.3        |               |               |             |              |                   |
| 18             | 51.06        | 0.000         | 0.000         | 0.021       | 0.021        | 94                | 54.49        | 0.000         | 0.000         | 0.049       | 0.049        | 230               | 74.42        | 0.000         | 0.000         | 0.067       | 0.067        | 432               |
| 19             | 47.14        |               |               |             |              |                   | 56.15        |               |               |             |              |                   | 87.92        |               |               |             |              |                   |
| 20             | 42.82        | 0.000         | 0.000         | 0.021       | 0.021        | 77                | 52.92        | 0.000         | 0.000         | 0.047       | 0.047        | 214               | 591.8        |               |               |             |              |                   |
| 21             | 41.34        | 0.000         | 0.000         | 0.020       | 0.020        | 73                | 43.02        | 0.000         | 0.000         | 0.048       | 0.048        | 177               | 357.8        |               |               |             |              |                   |
| 22             | 39.14        | 0.000         | 0.000         | 0.020       | 0.020        | 66                | 40.84        | 0.000         | 0.000         | 0.046       | 0.046        | 163               | 160.6        | 0.000         | 0.000         | 0.078       | 0.078        | 1081              |
| 23             | 36.55        | 0.000         | 0.000         | 0.021       | 0.021        | 66                | 39.12        | 0.000         | 0.000         | 0.058       | 0.058        | 195               | 112.4        | 0.000         | 0.000         | 0.079       | 0.079        | 770               |
| 24             | 29.78        | 0.000         | 0.000         | 0.021       | 0.021        | 54                | 43.79        |               |               |             |              |                   | 94.04        | 0.000         | 0.000         | 0.071       | 0.071        | 573               |
| 25             | 28.18        | 0.000         | 0.000         | 0.021       | 0.021        | 51                | 73.04        | 0.000         | 0.000         | 0.055       | 0.055        | 348               | 76.93        | 0.000         | 0.000         | 0.061       | 0.061        | 407               |
| 26             | 29.99        |               |               |             |              |                   | 68.14        | 0.000         | 0.000         | 0.054       | 0.054        | 319               | 73.43        | 0.000         | 0.000         | 0.058       | 0.058        | 365               |
| 27             | 28.76        | 0.000         | 0.000         | 0.021       | 0.021        | 52                | 64.65        | 0.000         | 0.000         | 0.053       | 0.053        | 298               | 67.34        | 0.000         | 0.000         | 0.054       | 0.054        | 315               |
| 28             | 29.52        | 0.000         | 0.000         | 0.021       | 0.021        | 53                | 61.41        | 0.000         | 0.000         | 0.051       | 0.051        | 271               | 64.69        |               |               |             |              |                   |
| 29             | 29.45        | 0.000         | 0.000         | 0.020       | 0.020        | 50                | 53.44        | 0.000         | 0.000         | 0.052       | 0.052        | 241               | 62.12        | 0.000         | 0.000         | 0.051       | 0.051        | 273               |
| 30             | 28.28        | 0.000         | 0.000         | 0.019       | 0.019        | 47                | 50.89        | 0.000         | 0.000         | 0.051       | 0.051        | 223               | 56.44        | 0.000         | 0.000         | 0.052       | 0.052        | 254               |
| 31             |              |               |               |             |              |                   | 44.34        |               |               |             |              |                   |              |               |               |             |              |                   |
| Ten Daily Mean |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Ten Daily I    | 33.87        | 0.000         | 0.000         | 0.034       | 0.034        | 101               | 101.9        | 0.000         | 0.000         | 0.064       | 0.064        | 466               | 35.88        | 0.000         | 0.000         | 0.049       | 0.049        | 153               |
| Ten Daily II   | 40.42        | 0.000         | 0.000         | 0.025       | 0.025        | 86                | 69.75        | 0.000         | 0.000         | 0.050       | 0.050        | 316               | 133.3        | 0.000         | 0.000         | 0.051       | 0.051        | 195               |
| Ten Daily III  | 32.10        | 0.000         | 0.000         | 0.020       | 0.020        | 57                | 52.97        | 0.000         | 0.000         | 0.052       | 0.052        | 248               | 112.6        | 0.000         | 0.000         | 0.063       | 0.063        | 505               |
| Monthly        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Total          |              |               |               |             |              | 2007              |              |               |               |             |              | 7240              |              |               |               |             |              | 6431              |

Annual Sediment Load (Metric Tonnes) : 29331

**Daily Observed Sediment Datasheet for period : 2021-2022**

Station Name : KUPPELUR ( AKLC0B8)

Local River : Kumudavathi

Division : Cauvery Division, Bangalore

Sub-Division : Upper Tunga SD, Devangere

| Day                   | Dec          |               |               |             |              |                   | Jan          |               |               |             |              |                   | Feb          |               |               |             |              |                   |
|-----------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                       | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1                     | 52.15        | 0.000         | 0.000         | 0.054       | 0.054        | 242               | 7.760        | 0.000         | 0.000         | 0.016       | 0.016        | 10                | 0.000        |               |               |             |              |                   |
| 2                     | 51.17        | 0.000         | 0.000         | 0.052       | 0.052        | 231               | 8.574        |               |               |             |              |                   | 0.000        |               |               |             |              |                   |
| 3                     | 51.11        | 0.000         | 0.000         | 0.050       | 0.050        | 221               | 7.341        | 0.000         | 0.000         | 0.016       | 0.016        | 10                | 0.000        |               |               |             |              |                   |
| 4                     | 48.89        | 0.000         | 0.000         | 0.049       | 0.049        | 206               | 7.252        | 0.000         | 0.000         | 0.017       | 0.017        | 11                | 0.000        |               |               |             |              |                   |
| 5                     | 45.29        |               |               |             |              |                   | 6.862        | 0.000         | 0.000         | 0.018       | 0.018        | 11                | 0.000        |               |               |             |              |                   |
| 6                     | 43.93        | 0.000         | 0.000         | 0.046       | 0.046        | 175               | 2.445        | 0.000         | 0.000         | 0.020       | 0.020        | 4                 | 0.000        |               |               |             |              |                   |
| 7                     | 42.02        | 0.000         | 0.000         | 0.043       | 0.043        | 157               | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   |
| 8                     | 39.90        | 0.000         | 0.000         | 0.040       | 0.040        | 138               | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   |
| 9                     | 39.66        | 0.000         | 0.000         | 0.038       | 0.038        | 129               | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   |
| 10                    | 38.21        | 0.000         | 0.000         | 0.036       | 0.036        | 119               | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   |
| 11                    | 37.34        | 0.000         | 0.000         | 0.036       | 0.036        | 116               | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   |
| 12                    | 36.44        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   |
| 13                    | 36.13        | 0.000         | 0.000         | 0.036       | 0.036        | 111               | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   |
| 14                    | 35.06        | 0.000         | 0.000         | 0.034       | 0.034        | 104               | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   |
| 15                    | 33.58        | 0.000         | 0.000         | 0.033       | 0.033        | 95                | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   |
| 16                    | 31.79        | 0.000         | 0.000         | 0.033       | 0.033        | 91                | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   |
| 17                    | 29.38        | 0.000         | 0.000         | 0.032       | 0.032        | 80                | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   |
| 18                    | 28.89        | 0.000         | 0.000         | 0.032       | 0.032        | 79                | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   |
| 19                    | 31.26        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   |
| 20                    | 31.18        | 0.000         | 0.000         | 0.031       | 0.031        | 85                | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   |
| 21                    | 32.01        | 0.000         | 0.000         | 0.030       | 0.030        | 83                | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   |
| 22                    | 30.25        | 0.000         | 0.000         | 0.028       | 0.028        | 74                | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   |
| 23                    | 28.77        | 0.000         | 0.000         | 0.026       | 0.026        | 65                | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   |
| 24                    | 28.69        | 0.000         | 0.000         | 0.025       | 0.025        | 62                | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   |
| 25                    | 19.59        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   |
| 26                    | 17.55        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   |
| 27                    | 15.67        | 0.000         | 0.000         | 0.019       | 0.019        | 26                | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   |
| 28                    | 15.02        | 0.000         | 0.000         | 0.018       | 0.018        | 23                | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   |
| 29                    | 13.27        | 0.000         | 0.000         | 0.018       | 0.018        | 21                | 0.000        |               |               |             |              |                   |              |               |               |             |              |                   |
| 30                    | 12.24        | 0.000         | 0.000         | 0.019       | 0.019        | 20                | 0.000        |               |               |             |              |                   |              |               |               |             |              |                   |
| 31                    | 9.194        | 0.000         | 0.000         | 0.017       | 0.017        | 13                | 0.000        |               |               |             |              |                   |              |               |               |             |              |                   |
| <b>Ten Daily Mean</b> |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| <b>Ten Daily I</b>    | 45.23        | 0.000         | 0.000         | 0.045       | 0.045        | 180               | 4.023        | 0.000         | 0.000         | 0.017       | 0.017        | 9                 | 0.000        |               |               |             |              |                   |
| <b>Ten Daily II</b>   | 33.11        | 0.000         | 0.000         | 0.033       | 0.033        | 95                | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   |
| <b>Ten Daily III</b>  | 20.20        | 0.000         | 0.000         | 0.022       | 0.022        | 43                | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   |
| <b>Monthly</b>        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| <b>Total</b>          |              |               |               |             |              | 2765              |              |               |               |             |              | 46                |              |               |               |             |              |                   |

Annual Sediment Load (Metric Tonnes) : 29331

**Daily Observed Sediment Datasheet for period : 2021-2022**

Station Name : KUPPELUR ( AKLC0B8)

Local River : Kumudavathi

Division : Cauvery Division, Bangalore

Sub-Division : Upper Tunga SD, Devangere

| Day                   | Mar          |               |               |             |              |                   | Apr          |               |               |             |              |                   | May          |               |               |             |              |                   |
|-----------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                       | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1                     | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   |
| 2                     | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   |
| 3                     | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   |
| 4                     | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   |
| 5                     | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   |
| 6                     | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   |
| 7                     | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   |
| 8                     | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   |
| 9                     | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   |
| 10                    | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   |
| 11                    | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   |
| 12                    | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   |
| 13                    | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   |
| 14                    | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   |
| 15                    | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   |
| 16                    | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   |
| 17                    | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   |
| 18                    | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 2.250        |               |               |             |              |                   |
| 19                    | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 3.535        |               |               |             |              |                   |
| 20                    | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 66.22        | 0.000         | 0.000         | 0.090       | 0.090        | 512               |
| 21                    | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 92.02        | 0.000         | 0.000         | 0.092       | 0.092        | 729               |
| 22                    | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 92.95        |               |               |             |              |                   |
| 23                    | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 62.90        | 0.000         | 0.000         | 0.079       | 0.079        | 428               |
| 24                    | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 51.85        | 0.000         | 0.000         | 0.082       | 0.082        | 365               |
| 25                    | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 35.79        | 0.000         | 0.000         | 0.080       | 0.080        | 246               |
| 26                    | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 32.89        | 0.000         | 0.000         | 0.076       | 0.076        | 217               |
| 27                    | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 29.14        | 0.000         | 0.000         | 0.074       | 0.074        | 186               |
| 28                    | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 13.07        | 0.000         | 0.000         | 0.054       | 0.054        | 61                |
| 29                    | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 12.06        |               |               |             |              |                   |
| 30                    | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 11.89        | 0.000         | 0.000         | 0.057       | 0.057        | 59                |
| 31                    | 0.000        |               |               |             |              |                   |              |               |               |             |              |                   | 11.17        | 0.000         | 0.000         | 0.058       | 0.058        | 56                |
| <b>Ten Daily Mean</b> |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Ten Daily I           | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   |
| Ten Daily II          | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 7.201        | 0.000         | 0.000         | 0.090       | 0.090        | 512               |
| Ten Daily III         | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 40.52        | 0.000         | 0.000         | 0.072       | 0.072        | 261               |
| <b>Monthly</b>        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |

Total

2859

Annual Sediment Load (Metric Tonnes) : 29331



**Annual Sediment Load for period : 2014-2022****Station Name : KUPPELUR ( AKLC0B8)****Division : Cauvery Division, Bangalore****Local River : Kumudavathi****Sub-Division : Upper Tunga SD, Devangere**

| Year      | Monsoon<br>(M.T.) | Non-Monsoon<br>(M.T.) | Annual Load<br>(M.T.) | Annual Run Off<br>(MCM) |
|-----------|-------------------|-----------------------|-----------------------|-------------------------|
| 2014-2015 | 120063            | 0                     | 120063                | 609                     |
| 2015-2016 | 6991              | 0                     | 6991                  | 96                      |
| 2016-2017 | 1880              | 0                     | 1880                  | 23                      |
| 2017-2018 | 0                 | 0                     | 0                     | 0                       |
| 2018-2019 | 32934             | 0                     | 32934                 | 235                     |
| 2019-2020 | 46978             | 60                    | 47037                 | 820                     |
| 2020-2021 | 19234             | 0                     | 19234                 | 489                     |
| 2021-2022 | 23659             | 5671                  | 29331                 | 1107                    |

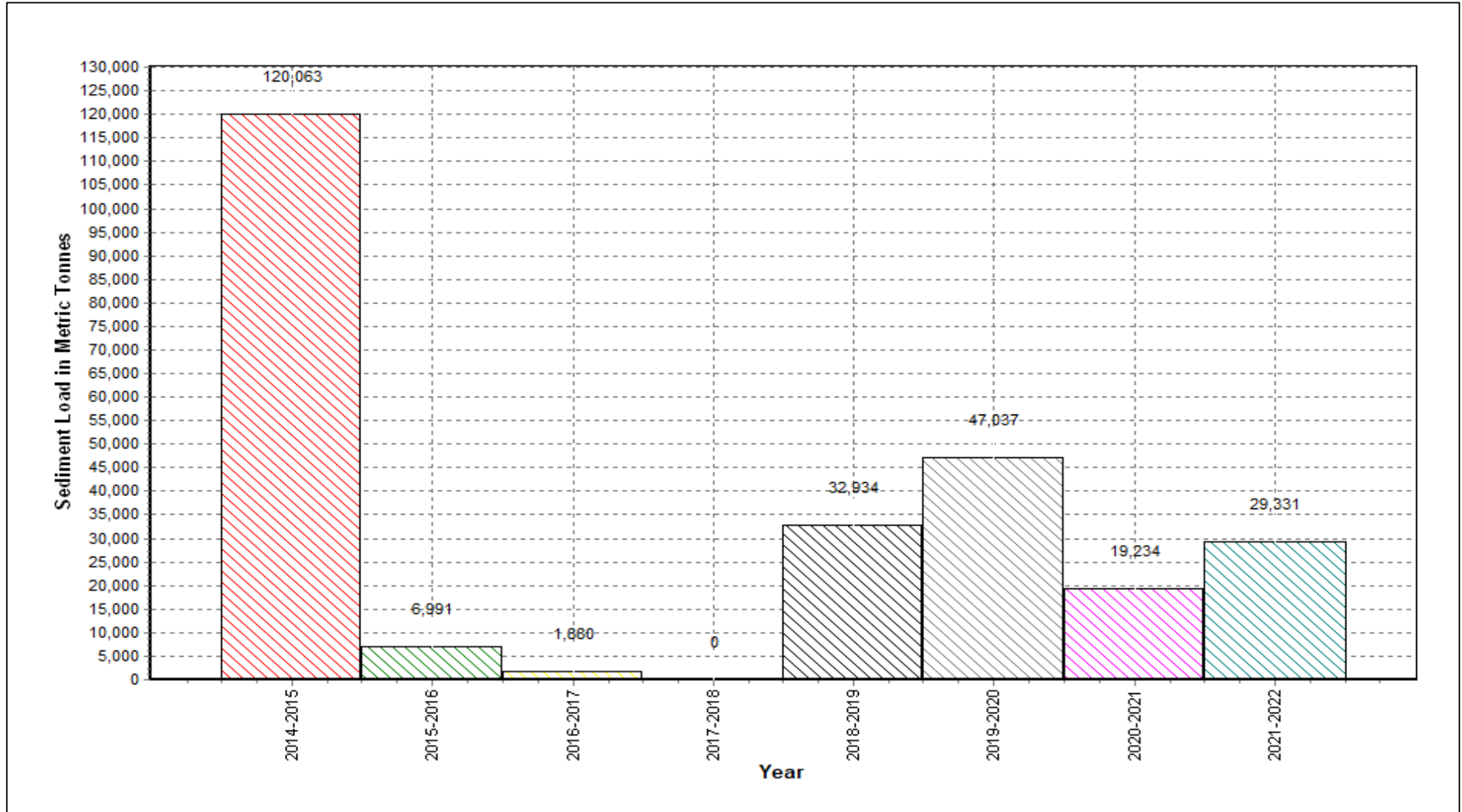
Annual Sediment Load for the period: 2014-2022

Station Name : KUPPELUR ( AKLC0B8)

Local River : Kumudavathi

Division : Cauvery Division, Bangalore

Sub-Division : Upper Tunga SD, Devangere



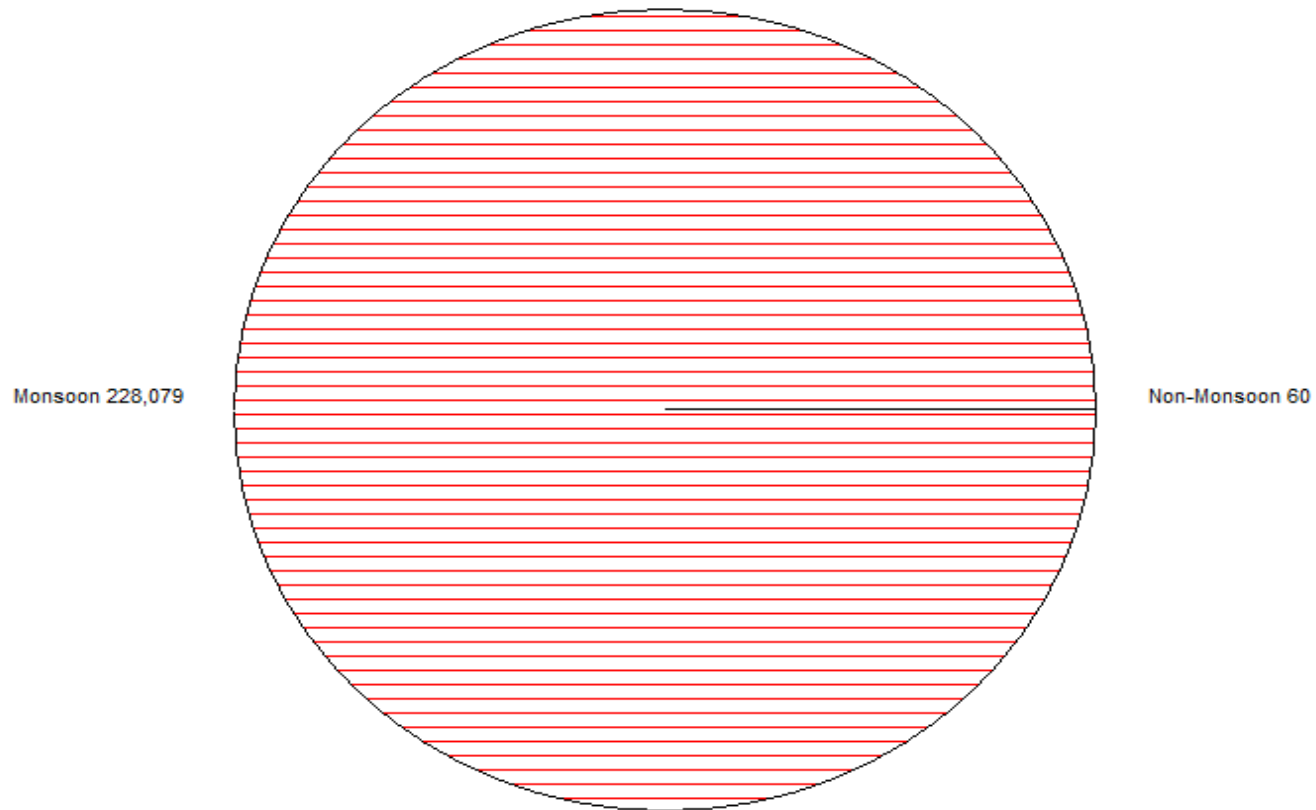
Seasonal Sediment Load for the period : 2014-2021

Station Name : KUPPELUR ( AKLC0B8)

Local River : Kumudavathi

Division : Cauvery Division, Bangalore

Sub-Division : Upper Tunga SD, Devangere



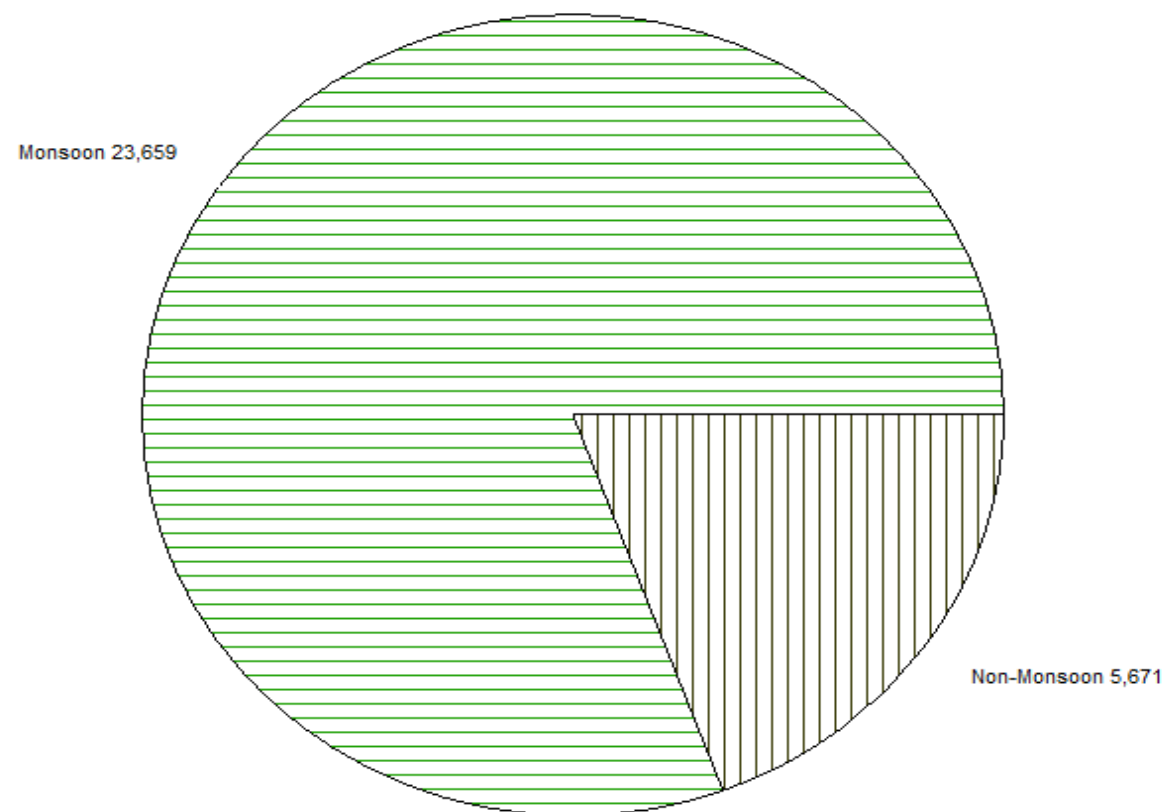
Seasonal Sediment Load for the Year: 2021-2022

Station Name : KUPPELUR ( AKLC0B8)

Local River : Kumudavathi

Division : Cauvery Division, Bangalore

Sub-Division : Upper Tunga SD, Devangere



**BED MATERIAL ANALYSIS DATA FOR THE YEAR 2021-22**

SITE KUMUDAVATHI AT KUPPELUR CODE : AKLC08B  
 MEASURING AUTHORITY CDN WATER YEAR : 2021-22

**Premonsoon Survey ( Date 07/06/2021 )**

Discharged Observed : **Q observation not done due to pooling water** Water edge RB: 124 LB: 85 m  
 Area of section : Mean Velocity -- m/sec  
 Wetted Perimeter : Hydraulic Mean Depth -- m

| Sl. No. | R.D. of sampling point in meters | R.L. of Dry Bed | R.L. of bed in meters | Mean diameter in mm | Remarks                                        |
|---------|----------------------------------|-----------------|-----------------------|---------------------|------------------------------------------------|
| 1       | 85                               | -               | 534.180               | 2.37                | Av.mean                                        |
| 2       | 105                              | -               | 532.820               | 2.25                | dia "m" 2.67                                   |
| 3       | 125                              | 535.470         | Dry Bed               | 3.40                |                                                |
|         |                                  |                 |                       |                     | Silt factor<br>"f" = 1.76 $\sqrt{m}$<br>= 2.88 |

1.634013  
2.875864

**Note:** i. Discharge not observed due to pooling water  
 ii. River bed : Stagnant water

**Monsoon Survey ( Date 26/10/2021 )**

Discharged Observed : 69.17 cumec Water edge RB: 126.0 LB: 81.0 m  
 Area of section : 115.82 sq.m Mean Velocity : 0.5972 m/sec  
 Wetted Perimeter : 46.301 m Hydraulic Mean Depth : 2.502 m

| Sl. No. | R.D. of sampling point in meters | R.L. of Dry Bed | R.L. of bed in meters | Mean diameter in mm | Remarks                                        |
|---------|----------------------------------|-----------------|-----------------------|---------------------|------------------------------------------------|
| 1       | 85                               | --              | 534.06                | 1.44                | Av.mean                                        |
| 2       | 105                              | --              | 532.91                | 2.19                | dia "m" 2.2                                    |
| 3       | 125                              | --              | 535.43                | 2.96                |                                                |
|         |                                  |                 |                       |                     | Silt factor<br>"f" = 1.76 $\sqrt{m}$<br>= 2.61 |

1.48324  
2.610502

**Note:** i. Discharge observed from Temporary section  
 ii. River bed : Flowing water

**Postmonsoon Survey ( Date 18/01/2022 )**

Discharged Observed : **Q observation not done due to pooling water** Water edge RB: 124 LB: 84.0 m  
 Area of section : Mean Velocity -- m/sec  
 Wetted Perimeter : Hydraulic Mean Depth -- m

| Sl. No. | R.D. of sampling point in meters | R.L. of Dry Bed | R.L. of bed in meters | Mean diameter in mm | Remarks                                        |
|---------|----------------------------------|-----------------|-----------------------|---------------------|------------------------------------------------|
| 1       | 85                               | --              | 534.060               | 1.57                | Av.mean                                        |
| 2       | 105                              | --              | 533.020               | 1.88                | dia "m" 1.96                                   |
| 3       | 125                              | 535.455         | Dry Bed               | 2.44                |                                                |
|         |                                  |                 |                       |                     | Silt factor<br>"f" = 1.76 $\sqrt{m}$<br>= 2.46 |

1.4  
2.464

**Note:** i. Discharge not observed due to pooling water  
 ii. River bed : Stagnant water

## HISTORY SHEET

|                          |                               |                   |                             |
|--------------------------|-------------------------------|-------------------|-----------------------------|
|                          |                               | <b>Water Year</b> | <b>: 2021-2022</b>          |
| <b>Site</b>              | <b>: BYLADAHALLI</b>          | <b>Code</b>       | <b>: AKLB0D3</b>            |
| State                    | : Karnataka                   | District          | Davanagere                  |
| Basin                    | : Krishna                     | Independent River | : Krishna                   |
| Tributary                | : Tungabhadra                 | Sub Tributary     | :                           |
| Sub-Sub Tributary        | :                             | Local River       | : Haridra                   |
| Division                 | : Cauvery Division, Bangalore | Sub-Division      | : Upper Tunga SD, Devangere |
| Drainage Area            | : 2300 Sq. Km.                | Bank              | : Right                     |
| Latitude                 | : 14°26'02"                   | Longitude         | : 75°46'47"                 |
| <b>Zero of Gauge (m)</b> | : 530 (m.s.l)                 | 21-03-1985        | - 31-05-1986                |
|                          | : 530.4 (m.s.l)               | 01-06-1986        | - 31-05-2010                |
|                          | : 528.4 (m.s.l)               | 01-06-2010        |                             |
|                          | Opening Date                  | Closing Date      |                             |
| Gauge                    | : 21-03-1985                  |                   |                             |
| Discharge                | : 11-06-1985                  |                   |                             |
| Sediment                 | : 10-12-1997                  |                   |                             |
| Water Quality            | : 02-06-1986                  |                   |                             |

**Daily Observed Sediment Datasheet for period : 2021-2022**

Station Name : BYLADAHALLI ( AKLB0D3)

Local River : Haridra

Division : Cauvery Division, Bangalore

Sub-Division : Upper Tunga SD, Devangere

| Day                   | Jun          |               |               |             |              |                   | Jul          |               |               |             |              |                   | Aug          |               |               |             |              |                   |
|-----------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                       | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1                     | 0.000        | No Flow       | No Flow       | No Flow     | No Flow      | No Flow           | 0.000        | No Flow       | No Flow       | No Flow     | No Flow      | No Flow           | 20.06        |               |               |             |              |                   |
| 2                     | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 18.69        | 0.000         | 0.000         | 0.005       | 0.005        | 8                 |
| 3                     | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 18.02        | 0.000         | 0.000         | 0.005       | 0.005        | 7                 |
| 4                     | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 18.09        | 0.000         | 0.000         | 0.005       | 0.005        | 7                 |
| 5                     | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 18.68        | 0.000         | 0.000         | 0.005       | 0.005        | 8                 |
| 6                     | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 22.50        | 0.000         | 0.000         | 0.006       | 0.006        | 11                |
| 7                     | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 24.05        | 0.000         | 0.000         | 0.007       | 0.007        | 14                |
| 8                     | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 25.54        |               |               |             |              |                   |
| 9                     | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 27.02        | 0.000         | 0.000         | 0.007       | 0.007        | 16                |
| 10                    | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 23.94        | 0.000         | 0.000         | 0.007       | 0.007        | 13                |
| 11                    | 0.000        |               |               |             |              |                   | 0.453        |               |               |             |              |                   | 22.51        | 0.000         | 0.000         | 0.006       | 0.006        | 11                |
| 12                    | 0.000        | No Flow       | No Flow       | No Flow     | No Flow      | No Flow           | 1.251        | 0.000         | 0.000         | 0.001       | 0.001        | 0                 | 21.21        | 0.000         | 0.000         | 0.006       | 0.006        | 10                |
| 13                    | 0.000        |               |               |             |              |                   | 1.271        | 0.000         | 0.000         | 0.001       | 0.001        | 0                 | 18.70        | 0.000         | 0.000         | 0.005       | 0.005        | 8                 |
| 14                    | 0.000        |               |               |             |              |                   | 1.305        | 0.000         | 0.000         | 0.001       | 0.001        | 0                 | 18.15        | 0.000         | 0.000         | 0.005       | 0.005        | 7                 |
| 15                    | 0.000        |               |               |             |              |                   | 1.330        | 0.000         | 0.000         | 0.002       | 0.002        | 0                 | 17.07        |               |               |             |              |                   |
| 16                    | 0.000        |               |               |             |              |                   | 1.343        | 0.000         | 0.000         | 0.002       | 0.002        | 0                 | 16.46        | 0.000         | 0.000         | 0.004       | 0.004        | 6                 |
| 17                    | 0.000        |               |               |             |              |                   | 1.310        | 0.000         | 0.000         | 0.001       | 0.001        | 0                 | 16.46        | 0.000         | 0.000         | 0.004       | 0.004        | 5                 |
| 18                    | 0.000        |               |               |             |              |                   | 1.266        |               |               |             |              |                   | 17.85        | 0.000         | 0.000         | 0.005       | 0.005        | 7                 |
| 19                    | 0.000        |               |               |             |              |                   | 1.619        | 0.000         | 0.000         | 0.002       | 0.002        | 0                 | 21.29        | 0.000         | 0.000         | 0.006       | 0.006        | 10                |
| 20                    | 0.000        |               |               |             |              |                   | 1.823        | 0.000         | 0.000         | 0.003       | 0.003        | 0                 | 23.77        |               |               |             |              |                   |
| 21                    | 0.000        |               |               |             |              |                   | 2.382        |               |               |             |              |                   | 25.06        | 0.000         | 0.000         | 0.007       | 0.007        | 15                |
| 22                    | 0.000        |               |               |             |              |                   | 1.776        | 0.000         | 0.000         | 0.002       | 0.002        | 0                 | 26.45        |               |               |             |              |                   |
| 23                    | 0.000        |               |               |             |              |                   | 2.141        | 0.000         | 0.000         | 0.003       | 0.003        | 0                 | 24.01        | 0.000         | 0.000         | 0.007       | 0.007        | 14                |
| 24                    | 0.000        |               |               |             |              |                   | 29.94        | 0.000         | 0.000         | 0.007       | 0.007        | 19                | 22.58        | 0.000         | 0.000         | 0.006       | 0.006        | 11                |
| 25                    | 0.000        |               |               |             |              |                   | 33.39        |               |               |             |              |                   | 21.30        | 0.000         | 0.000         | 0.006       | 0.006        | 10                |
| 26                    | 0.000        |               |               |             |              |                   | 30.31        | 0.000         | 0.000         | 0.008       | 0.008        | 20                | 19.07        | 0.000         | 0.000         | 0.005       | 0.005        | 8                 |
| 27                    | 0.000        |               |               |             |              |                   | 30.13        | 0.000         | 0.000         | 0.008       | 0.008        | 20                | 19.05        | 0.000         | 0.000         | 0.005       | 0.005        | 8                 |
| 28                    | 0.000        |               |               |             |              |                   | 27.92        | 0.000         | 0.000         | 0.007       | 0.007        | 17                | 18.13        | 0.000         | 0.000         | 0.005       | 0.005        | 7                 |
| 29                    | 0.000        |               |               |             |              |                   | 23.91        | 0.000         | 0.000         | 0.006       | 0.006        | 13                | 17.79        |               |               |             |              |                   |
| 30                    | 0.000        |               |               |             |              |                   | 21.87        | 0.000         | 0.000         | 0.006       | 0.006        | 11                | 21.13        | 0.000         | 0.000         | 0.006       | 0.006        | 10                |
| 31                    |              |               |               |             |              |                   | 21.15        | 0.000         | 0.000         | 0.006       | 0.006        | 10                | 22.51        | 0.000         | 0.000         | 0.006       | 0.006        | 11                |
| <b>Ten Daily Mean</b> |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| <b>Ten Daily I</b>    | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 21.66        | 0.000         | 0.000         | 0.006       | 0.006        | 10                |
| <b>Ten Daily II</b>   | 0.000        |               |               |             |              |                   | 1.297        | 0.000         | 0.000         | 0.002       | 0.002        | 0                 | 19.35        | 0.000         | 0.000         | 0.005       | 0.005        | 8                 |
| <b>Ten Daily III</b>  | 0.000        |               |               |             |              |                   | 20.45        | 0.000         | 0.000         | 0.006       | 0.006        | 12                | 21.55        | 0.000         | 0.000         | 0.006       | 0.006        | 10                |
| <b>Monthly</b>        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| <b>Total</b>          |              |               |               |             |              |                   |              |               |               |             |              | 111               |              |               |               |             |              | 243               |

**Daily Observed Sediment Datasheet for period : 2021-2022**

Station Name : BYLADAHALLI ( AKLB0D3)

Local River : Haridra

Division : Cauvery Division, Bangalore

Sub-Division : Upper Tunga SD, Devangere

| Day            | Sep          |               |               |             |              |                   | Oct          |               |               |             |              |                   | Nov          |               |               |             |              |                   |
|----------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1              | 23.94        | 0.000         | 0.000         | 0.007       | 0.007        | 14                | 11.46        | 0.000         | 0.000         | 0.003       | 0.003        | 3                 | 20.32        | 0.000         | 0.000         | 0.005       | 0.005        | 9                 |
| 2              | 24.94        | 0.000         | 0.000         | 0.007       | 0.007        | 15                | 10.01        |               |               |             |              |                   | 18.84        | 0.000         | 0.000         | 0.005       | 0.005        | 8                 |
| 3              | 28.15        | 0.000         | 0.000         | 0.007       | 0.007        | 18                | 18.53        |               |               |             |              |                   | 18.52        | 0.000         | 0.000         | 0.005       | 0.005        | 8                 |
| 4              | 28.09        | 0.000         | 0.000         | 0.007       | 0.007        | 17                | 20.99        | 0.000         | 0.000         | 0.006       | 0.006        | 10                | 18.53        |               |               |             |              |                   |
| 5              | 28.82        |               |               |             |              |                   | 25.27        | 0.000         | 0.000         | 0.007       | 0.007        | 15                | 21.06        | 0.000         | 0.000         | 0.006       | 0.006        | 10                |
| 6              | 27.60        | 0.000         | 0.000         | 0.007       | 0.007        | 17                | 31.91        | 0.000         | 0.000         | 0.008       | 0.008        | 21                | 22.79        | 0.000         | 0.000         | 0.006       | 0.006        | 11                |
| 7              | 28.12        | 0.000         | 0.000         | 0.007       | 0.007        | 18                | 38.15        | 0.000         | 0.000         | 0.008       | 0.008        | 28                | 24.64        |               |               |             |              |                   |
| 8              | 31.08        | 0.000         | 0.000         | 0.008       | 0.008        | 20                | 39.43        | 0.000         | 0.000         | 0.009       | 0.009        | 30                | 24.34        | 0.000         | 0.000         | 0.006       | 0.006        | 13                |
| 9              | 33.94        | 0.000         | 0.000         | 0.008       | 0.008        | 23                | 39.48        | 0.000         | 0.000         | 0.009       | 0.009        | 29                | 24.37        | 0.000         | 0.000         | 0.006       | 0.006        | 13                |
| 10             | 34.46        |               |               |             |              |                   | 37.79        |               |               |             |              |                   | 22.59        | 0.000         | 0.000         | 0.006       | 0.006        | 11                |
| 11             | 31.72        | 0.000         | 0.000         | 0.008       | 0.008        | 21                | 38.04        | 0.000         | 0.000         | 0.008       | 0.008        | 28                | 22.22        | 0.000         | 0.000         | 0.006       | 0.006        | 11                |
| 12             | 29.31        |               |               |             |              |                   | 38.09        | 0.000         | 0.000         | 0.008       | 0.008        | 27                | 21.03        | 0.000         | 0.000         | 0.006       | 0.006        | 10                |
| 13             | 27.04        | 0.000         | 0.000         | 0.007       | 0.007        | 16                | 41.46        | 0.000         | 0.000         | 0.009       | 0.009        | 32                | 21.10        | 0.000         | 0.000         | 0.006       | 0.006        | 10                |
| 14             | 26.99        | 0.000         | 0.000         | 0.007       | 0.007        | 16                | 41.26        | 0.000         | 0.000         | 0.009       | 0.009        | 32                | 22.49        |               |               |             |              |                   |
| 15             | 25.22        | 0.000         | 0.000         | 0.007       | 0.007        | 15                | 38.36        |               |               |             |              |                   | 23.32        | 0.000         | 0.000         | 0.006       | 0.006        | 12                |
| 16             | 24.23        | 0.000         | 0.000         | 0.007       | 0.007        | 14                | 39.44        | 0.000         | 0.000         | 0.009       | 0.009        | 30                | 23.35        | 0.000         | 0.000         | 0.006       | 0.006        | 12                |
| 17             | 22.02        | 0.000         | 0.000         | 0.006       | 0.006        | 11                | 37.79        |               |               |             |              |                   | 25.35        | 0.000         | 0.000         | 0.006       | 0.006        | 14                |
| 18             | 20.95        | 0.000         | 0.000         | 0.006       | 0.006        | 10                | 38.08        | 0.000         | 0.000         | 0.008       | 0.008        | 28                | 27.39        | 0.000         | 0.000         | 0.007       | 0.007        | 16                |
| 19             | 20.45        |               |               |             |              |                   | 36.10        |               |               |             |              |                   | 29.31        |               |               |             |              |                   |
| 20             | 20.25        | 0.000         | 0.000         | 0.006       | 0.006        | 10                | 31.98        | 0.000         | 0.000         | 0.008       | 0.008        | 21                | 39.34        | 0.000         | 0.000         | 0.009       | 0.009        | 29                |
| 21             | 18.76        | 0.000         | 0.000         | 0.005       | 0.005        | 8                 | 26.94        | 0.000         | 0.000         | 0.007       | 0.007        | 17                | 41.91        |               |               |             |              |                   |
| 22             | 17.99        | 0.000         | 0.000         | 0.005       | 0.005        | 8                 | 25.10        | 0.000         | 0.000         | 0.007       | 0.007        | 15                | 41.35        | 0.000         | 0.000         | 0.009       | 0.009        | 32                |
| 23             | 17.06        | 0.000         | 0.000         | 0.005       | 0.005        | 7                 | 24.13        | 0.000         | 0.000         | 0.007       | 0.007        | 14                | 41.42        | 0.000         | 0.000         | 0.009       | 0.009        | 33                |
| 24             | 11.44        | 0.000         | 0.000         | 0.003       | 0.003        | 3                 | 23.34        |               |               |             |              |                   | 39.45        | 0.000         | 0.000         | 0.009       | 0.009        | 30                |
| 25             | 11.43        | 0.000         | 0.000         | 0.003       | 0.003        | 3                 | 24.17        | 0.000         | 0.000         | 0.006       | 0.006        | 13                | 37.87        | 0.000         | 0.000         | 0.008       | 0.008        | 27                |
| 26             | 10.81        |               |               |             |              |                   | 25.05        | 0.000         | 0.000         | 0.007       | 0.007        | 14                | 36.24        | 0.000         | 0.000         | 0.008       | 0.008        | 26                |
| 27             | 12.51        | 0.000         | 0.000         | 0.004       | 0.004        | 4                 | 25.94        | 0.000         | 0.000         | 0.007       | 0.007        | 15                | 36.33        | 0.000         | 0.000         | 0.008       | 0.008        | 26                |
| 28             | 11.49        | 0.000         | 0.000         | 0.003       | 0.003        | 3                 | 25.01        | 0.000         | 0.000         | 0.007       | 0.007        | 14                | 36.10        |               |               |             |              |                   |
| 29             | 11.36        | 0.000         | 0.000         | 0.003       | 0.003        | 3                 | 22.56        | 0.000         | 0.000         | 0.006       | 0.006        | 11                | 33.83        | 0.000         | 0.000         | 0.008       | 0.008        | 23                |
| 30             | 11.17        | 0.000         | 0.000         | 0.003       | 0.003        | 3                 | 22.54        | 0.000         | 0.000         | 0.006       | 0.006        | 11                | 31.71        | 0.000         | 0.000         | 0.007       | 0.007        | 20                |
| 31             |              |               |               |             |              |                   | 22.49        |               |               |             |              |                   |              |               |               |             |              |                   |
| Ten Daily Mean |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Ten Daily I    | 28.91        | 0.000         | 0.000         | 0.007       | 0.007        | 18                | 27.30        | 0.000         | 0.000         | 0.007       | 0.007        | 19                | 21.60        | 0.000         | 0.000         | 0.006       | 0.006        | 10                |
| Ten Daily II   | 24.82        | 0.000         | 0.000         | 0.007       | 0.007        | 14                | 38.06        | 0.000         | 0.000         | 0.008       | 0.008        | 28                | 25.49        | 0.000         | 0.000         | 0.006       | 0.006        | 14                |
| Ten Daily III  | 13.40        | 0.000         | 0.000         | 0.004       | 0.004        | 5                 | 24.30        | 0.000         | 0.000         | 0.006       | 0.006        | 14                | 37.62        | 0.000         | 0.000         | 0.008       | 0.008        | 27                |
| Monthly        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Total          |              |               |               |             |              | 297               |              |               |               |             |              | 457               |              |               |               |             |              | 415               |



**Daily Observed Sediment Datasheet for period : 2021-2022**

Station Name : BYLADAHALLI ( AKLB0D3)

Local River : Haridra

Division : Cauvery Division, Bangalore

Sub-Division : Upper Tunga SD, Devangere

| Day            | Dec          |               |               |             |              |                   | Jan          |               |               |             |              |                   | Feb          |               |               |             |              |                   |
|----------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1              | 31.77        | 0.000         | 0.000         | 0.008       | 0.008        | 21                | 6.538        | 0.000         | 0.000         | 0.002       | 0.002        | 1                 | 6.316        | 0.000         | 0.000         | 0.002       | 0.002        | 1                 |
| 2              | 31.01        | 0.000         | 0.000         | 0.007       | 0.007        | 20                | 5.600        |               |               |             |              |                   | 5.877        | 0.000         | 0.000         | 0.002       | 0.002        | 1                 |
| 3              | 28.06        | 0.000         | 0.000         | 0.007       | 0.007        | 17                | 6.035        | 0.000         | 0.000         | 0.002       | 0.002        | 1                 | 5.915        | 0.000         | 0.000         | 0.002       | 0.002        | 1                 |
| 4              | 30.93        | 0.000         | 0.000         | 0.008       | 0.008        | 20                | 5.893        | 0.000         | 0.000         | 0.002       | 0.002        | 1                 | 5.765        | 0.000         | 0.000         | 0.002       | 0.002        | 1                 |
| 5              | 32.49        |               |               |             |              |                   | 5.862        | 0.000         | 0.000         | 0.002       | 0.002        | 1                 | 5.554        | 0.000         | 0.000         | 0.002       | 0.002        | 1                 |
| 6              | 31.67        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 2.313        | 0.000         | 0.000         | 0.001       | 0.001        | 0                 | 4.966        |               |               |             |              |                   |
| 7              | 33.87        | 0.000         | 0.000         | 0.008       | 0.008        | 23                | 2.182        | 0.000         | 0.000         | 0.001       | 0.001        | 0                 | 5.447        | 0.000         | 0.000         | 0.002       | 0.002        | 1                 |
| 8              | 36.45        | 0.000         | 0.000         | 0.008       | 0.008        | 26                | 2.261        | 0.000         | 0.000         | 0.001       | 0.001        | 0                 | 5.438        | 0.000         | 0.000         | 0.002       | 0.002        | 1                 |
| 9              | 36.33        | 0.000         | 0.000         | 0.008       | 0.008        | 26                | 2.732        |               |               |             |              |                   | 5.340        | 0.000         | 0.000         | 0.002       | 0.002        | 1                 |
| 10             | 33.81        | 0.000         | 0.000         | 0.008       | 0.008        | 23                | 5.703        | 0.000         | 0.000         | 0.002       | 0.002        | 1                 | 5.335        | 0.000         | 0.000         | 0.002       | 0.002        | 1                 |
| 11             | 31.01        | 0.000         | 0.000         | 0.007       | 0.007        | 20                | 5.429        | 0.000         | 0.000         | 0.002       | 0.002        | 1                 | 5.452        | 0.000         | 0.000         | 0.002       | 0.002        | 1                 |
| 12             | 29.15        |               |               |             |              |                   | 5.424        | 0.000         | 0.000         | 0.002       | 0.002        | 1                 | 5.440        | 0.000         | 0.000         | 0.002       | 0.002        | 1                 |
| 13             | 27.04        | 0.000         | 0.000         | 0.007       | 0.007        | 16                | 5.403        | 0.000         | 0.000         | 0.002       | 0.002        | 1                 | 4.760        |               |               |             |              |                   |
| 14             | 25.18        | 0.000         | 0.000         | 0.007       | 0.007        | 14                | 5.173        |               |               |             |              |                   | 5.565        | 0.000         | 0.000         | 0.002       | 0.002        | 1                 |
| 15             | 24.28        | 0.000         | 0.000         | 0.007       | 0.007        | 14                | 5.875        | 0.000         | 0.000         | 0.002       | 0.002        | 1                 | 5.575        | 0.000         | 0.000         | 0.002       | 0.002        | 1                 |
| 16             | 24.20        | 0.000         | 0.000         | 0.007       | 0.007        | 14                | 5.385        |               |               |             |              |                   | 5.331        | 0.000         | 0.000         | 0.002       | 0.002        | 1                 |
| 17             | 23.04        | 0.000         | 0.000         | 0.006       | 0.006        | 13                | 6.016        | 0.000         | 0.000         | 0.002       | 0.002        | 1                 | 5.312        | 0.000         | 0.000         | 0.002       | 0.002        | 1                 |
| 18             | 23.08        | 0.000         | 0.000         | 0.006       | 0.006        | 12                | 6.030        | 0.000         | 0.000         | 0.002       | 0.002        | 1                 | 5.325        | 0.000         | 0.000         | 0.002       | 0.002        | 1                 |
| 19             | 25.18        |               |               |             |              |                   | 5.889        | 0.000         | 0.000         | 0.002       | 0.002        | 1                 | 5.354        | 0.000         | 0.000         | 0.002       | 0.002        | 1                 |
| 20             | 22.09        | 0.000         | 0.000         | 0.006       | 0.006        | 11                | 6.286        | 0.000         | 0.000         | 0.002       | 0.002        | 1                 | 4.588        |               |               |             |              |                   |
| 21             | 20.80        | 0.000         | 0.000         | 0.006       | 0.006        | 10                | 6.292        | 0.000         | 0.000         | 0.002       | 0.002        | 1                 | 5.467        | 0.000         | 0.000         | 0.002       | 0.002        | 1                 |
| 22             | 19.31        | 0.000         | 0.000         | 0.005       | 0.005        | 9                 | 6.293        | 0.000         | 0.000         | 0.002       | 0.002        | 1                 | 5.487        | 0.000         | 0.000         | 0.002       | 0.002        | 1                 |
| 23             | 18.38        | 0.000         | 0.000         | 0.005       | 0.005        | 8                 | 5.818        |               |               |             |              |                   | 5.349        | 0.000         | 0.000         | 0.002       | 0.002        | 1                 |
| 24             | 18.41        | 0.000         | 0.000         | 0.005       | 0.005        | 8                 | 6.004        | 0.000         | 0.000         | 0.002       | 0.002        | 1                 | 5.336        | 0.000         | 0.000         | 0.002       | 0.002        | 1                 |
| 25             | 19.31        |               |               |             |              |                   | 5.911        | 0.000         | 0.000         | 0.002       | 0.002        | 1                 | 2.463        | 0.000         | 0.000         | 0.001       | 0.001        | 0                 |
| 26             | 19.31        |               |               |             |              |                   | 5.385        |               |               |             |              |                   | 2.303        | 0.000         | 0.000         | 0.001       | 0.001        | 0                 |
| 27             | 16.36        | 0.000         | 0.000         | 0.004       | 0.004        | 6                 | 5.836        | 0.000         | 0.000         | 0.002       | 0.002        | 1                 | 2.178        |               |               |             |              |                   |
| 28             | 15.76        | 0.000         | 0.000         | 0.004       | 0.004        | 6                 | 5.830        | 0.000         | 0.000         | 0.002       | 0.002        | 1                 | 2.178        | 0.000         | 0.000         | 0.001       | 0.001        | 0                 |
| 29             | 15.64        | 0.000         | 0.000         | 0.004       | 0.004        | 6                 | 6.012        | 0.000         | 0.000         | 0.002       | 0.002        | 1                 |              |               |               |             |              |                   |
| 30             | 12.42        | 0.000         | 0.000         | 0.004       | 0.004        | 4                 | 5.818        |               |               |             |              |                   |              |               |               |             |              |                   |
| 31             | 11.12        | 0.000         | 0.000         | 0.003       | 0.003        | 3                 | 6.306        | 0.000         | 0.000         | 0.002       | 0.002        | 1                 |              |               |               |             |              |                   |
| Ten Daily Mean |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Ten Daily I    | 32.64        | 0.000         | 0.000         | 0.007       | 0.007        | 20                | 4.512        | 0.000         | 0.000         | 0.002       | 0.002        | 1                 | 5.595        | 0.000         | 0.000         | 0.002       | 0.002        | 1                 |
| Ten Daily II   | 25.43        | 0.000         | 0.000         | 0.007       | 0.007        | 14                | 5.691        | 0.000         | 0.000         | 0.002       | 0.002        | 1                 | 5.270        | 0.000         | 0.000         | 0.002       | 0.002        | 1                 |
| Ten Daily III  | 16.98        | 0.000         | 0.000         | 0.005       | 0.005        | 7                 | 5.955        | 0.000         | 0.000         | 0.002       | 0.002        | 1                 | 3.845        | 0.000         | 0.000         | 0.001       | 0.001        | 1                 |
| Monthly        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Total          |              |               |               |             |              | 350               |              |               |               |             |              | 25                |              |               |               |             |              | 19                |

**Daily Observed Sediment Datasheet for period : 2021-2022**

Station Name : BYLADAHALLI ( AKLB0D3)

Local River : Haridra

Division : Cauvery Division, Bangalore

Sub-Division : Upper Tunga SD, Devangere

| Day                   | Mar          |               |               |             |              |                   | Apr          |               |               |             |              |                   | May          |               |               |             |              |                   |
|-----------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                       | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1                     | 2.571        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 1.959        |               |               |             |              |                   |
| 2                     | 2.173        | 0.000         | 0.000         | 0.001       | 0.001        | 0                 | 0.000        |               |               |             |              |                   | 1.693        | 0.000         | 0.000         | 0.001       | 0.001        | 0                 |
| 3                     | 2.229        | 0.000         | 0.000         | 0.001       | 0.001        | 0                 | 0.000        |               |               |             |              |                   | 1.817        |               |               |             |              |                   |
| 4                     | 2.237        | 0.000         | 0.000         | 0.001       | 0.001        | 0                 | 0.000        |               |               |             |              |                   | 1.645        | 0.000         | 0.000         | 0.001       | 0.001        | 0                 |
| 5                     | 2.301        | 0.000         | 0.000         | 0.001       | 0.001        | 0                 | 0.000        |               |               |             |              |                   | 1.697        | 0.000         | 0.000         | 0.001       | 0.001        | 0                 |
| 6                     | 2.899        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 1.812        | 0.000         | 0.000         | 0.001       | 0.001        | 0                 |
| 7                     | 2.222        | 0.000         | 0.000         | 0.001       | 0.001        | 0                 | 0.000        |               |               |             |              |                   | 1.807        | 0.000         | 0.000         | 0.001       | 0.001        | 0                 |
| 8                     | 2.162        | 0.000         | 0.000         | 0.001       | 0.001        | 0                 | 0.000        |               |               |             |              |                   | 3.243        |               |               |             |              |                   |
| 9                     | 2.155        | 0.000         | 0.000         | 0.001       | 0.001        | 0                 | 0.000        |               |               |             |              |                   | 5.743        | 0.000         | 0.000         | 0.002       | 0.002        | 1                 |
| 10                    | 2.154        | 0.000         | 0.000         | 0.001       | 0.001        | 0                 | 0.000        |               |               |             |              |                   | 6.271        | 0.000         | 0.000         | 0.003       | 0.003        | 1                 |
| 11                    | 2.081        | 0.000         | 0.000         | 0.001       | 0.001        | 0                 | 0.000        |               |               |             |              |                   | 6.283        | 0.000         | 0.000         | 0.003       | 0.003        | 1                 |
| 12                    | 2.077        | 0.000         | 0.000         | 0.001       | 0.001        | 0                 | 0.000        |               |               |             |              |                   | 6.514        | 0.000         | 0.000         | 0.003       | 0.003        | 2                 |
| 13                    | 2.257        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 6.518        | 0.000         | 0.000         | 0.003       | 0.003        | 2                 |
| 14                    | 1.902        | 0.000         | 0.000         | 0.001       | 0.001        | 0                 | 0.000        |               |               |             |              |                   | 6.311        | 0.000         | 0.000         | 0.003       | 0.003        | 1                 |
| 15                    | 1.759        | 0.000         | 0.000         | 0.001       | 0.001        | 0                 | 0.000        |               |               |             |              |                   | 5.818        |               |               |             |              |                   |
| 16                    | 1.589        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        |               |               |             |              |                   | 5.600        |               |               |             |              |                   |
| 17                    | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 6.510        | 0.000         | 0.000         | 0.003       | 0.003        | 1                 |
| 18                    | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 6.674        | 0.000         | 0.000         | 0.003       | 0.003        | 2                 |
| 19                    | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 11.28        | 0.000         | 0.000         | 0.004       | 0.004        | 4                 |
| 20                    | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 16.19        | 0.000         | 0.000         | 0.006       | 0.006        | 8                 |
| 21                    | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 263.5        |               |               |             |              |                   |
| 22                    | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 121.2        |               |               |             |              |                   |
| 23                    | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 44.59        | 0.000         | 0.000         | 0.010       | 0.010        | 39                |
| 24                    | 0.000        |               |               |             |              |                   | 0.000        |               |               |             |              |                   | 34.26        | 0.000         | 0.000         | 0.008       | 0.008        | 25                |
| 25                    | 0.000        |               |               |             |              |                   | 1.567        | 0.000         | 0.000         | 0.001       | 0.001        | 0                 | 14.07        | 0.000         | 0.000         | 0.006       | 0.006        | 7                 |
| 26                    | 0.000        |               |               |             |              |                   | 1.696        | 0.000         | 0.000         | 0.001       | 0.001        | 0                 | 12.53        | 0.000         | 0.000         | 0.005       | 0.005        | 5                 |
| 27                    | 0.000        |               |               |             |              |                   | 1.743        | 0.000         | 0.000         | 0.001       | 0.001        | 0                 | 9.451        | 0.000         | 0.000         | 0.004       | 0.004        | 3                 |
| 28                    | 0.000        |               |               |             |              |                   | 1.749        | 0.000         | 0.000         | 0.001       | 0.001        | 0                 | 7.493        | 0.000         | 0.000         | 0.003       | 0.003        | 2                 |
| 29                    | 0.000        |               |               |             |              |                   | 1.803        | 0.000         | 0.000         | 0.001       | 0.001        | 0                 | 6.265        |               |               |             |              |                   |
| 30                    | 0.000        |               |               |             |              |                   | 1.753        | 0.000         | 0.000         | 0.001       | 0.001        | 0                 | 5.489        | 0.000         | 0.000         | 0.002       | 0.002        | 1                 |
| 31                    | 0.000        |               |               |             |              |                   |              |               |               |             |              |                   | 5.028        | 0.000         | 0.000         | 0.002       | 0.002        | 1                 |
| <b>Ten Daily Mean</b> |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Ten Daily I           | 2.310        | 0.000         | 0.000         | 0.001       | 0.001        | 0                 | 0.000        |               |               |             |              |                   | 2.769        | 0.000         | 0.000         | 0.001       | 0.001        | 0                 |
| Ten Daily II          | 1.167        | 0.000         | 0.000         | 0.001       | 0.001        | 0                 | 0.000        |               |               |             |              |                   | 7.770        | 0.000         | 0.000         | 0.003       | 0.003        | 3                 |
| Ten Daily III         | 0.000        |               |               |             |              |                   | 1.031        | 0.000         | 0.000         | 0.001       | 0.001        | 0                 | 47.63        | 0.000         | 0.000         | 0.005       | 0.005        | 10                |
| <b>Monthly</b>        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| <b>Total</b>          |              |               |               |             |              | 2                 |              |               |               |             |              | 1                 |              |               |               |             |              | 108               |

**Annual Sediment Load for period : 1998-2022**

**Station Name : BYLADAHALLI ( AKLB0D3)**

**Local River : Haridra**

**Division : Cauvery Division, Bangalore**

**Sub-Division : Upper Tunga SD, Devangere**

| Year      | Monsoon<br>(M.T.) | Non-Monsoon<br>(M.T.) | Annual Load<br>(M.T.) | Annual Run Off<br>(MCM) |
|-----------|-------------------|-----------------------|-----------------------|-------------------------|
| 1998-1999 | 37506             | 2339                  | 39845                 | 521                     |
| 1999-2000 | 13824             | 542                   | 14366                 | 345                     |
| 2000-2001 | 29632             | 4941                  | 34574                 | 576                     |
| 2001-2002 | 4084              | 5                     | 4089                  | 244                     |
| 2002-2003 | 5727              | 45                    | 5773                  | 131                     |
| 2003-2004 | 5972              | 0                     | 5972                  | 47                      |
| 2004-2005 | 6902              | 0                     | 6902                  | 100                     |
| 2005-2006 | 41717             | 1853                  | 43571                 | 395                     |
| 2006-2007 | 0                 | 0                     | 0                     | 230                     |
| 2007-2008 | 0                 | 0                     | 0                     | 166                     |
| 2008-2009 | 11789             | 1429                  | 13219                 | 283                     |
| 2009-2010 | 11336             | 182                   | 11517                 | 330                     |
| 2010-2011 | 15022             | 509                   | 15531                 | 652                     |
| 2011-2012 | 4335              | 965                   | 5300                  | 321                     |
| 2012-2013 | 3784              | 9                     | 3793                  | 213                     |
| 2013-2014 | 7059              | 3                     | 7062                  | 353                     |
| 2014-2015 | 7066              | 22                    | 7088                  | 358                     |
| 2015-2016 | 2920              | 7                     | 2927                  | 249                     |
| 2016-2017 | 141               | 0                     | 141                   | 65                      |
| 2017-2018 | 1813              | 0                     | 1813                  | 98                      |
| 2018-2019 | 1836              | 36                    | 1872                  | 212                     |
| 2019-2020 | 7004              | 227                   | 7231                  | 252                     |
| 2020-2021 | 2688              | 137                   | 2825                  | 316                     |
| 2021-2022 | 1522              | 504                   | 2026                  | 438                     |

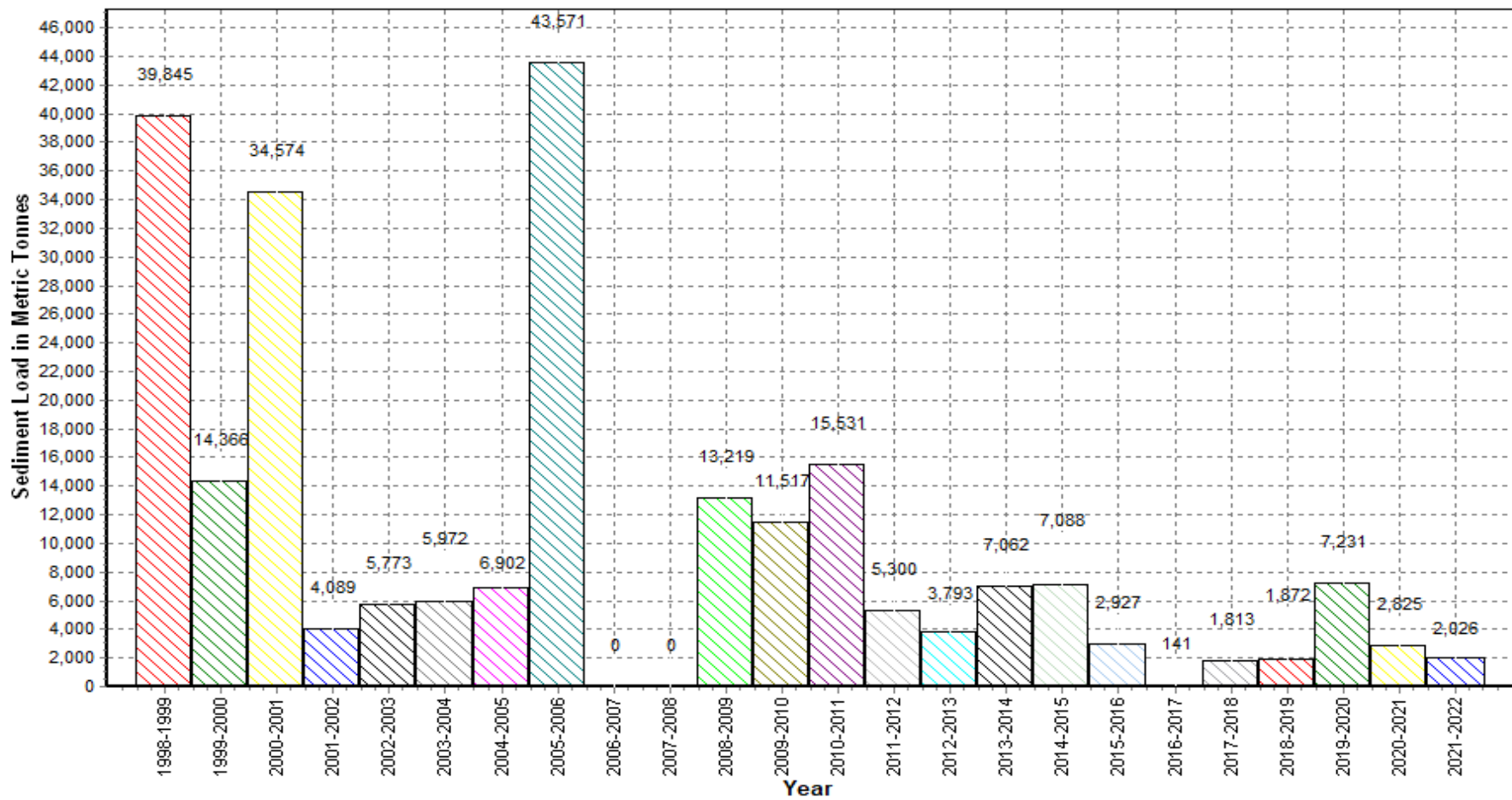
# Annual Sediment Load for the period: 1998-2022

Station Name : BYLADAHALLI ( AKLB0D3)

Local River : Haridra

Division : Cauvery Division, Bangalore

Sub-Division : Upper Tunga SD, Devangere



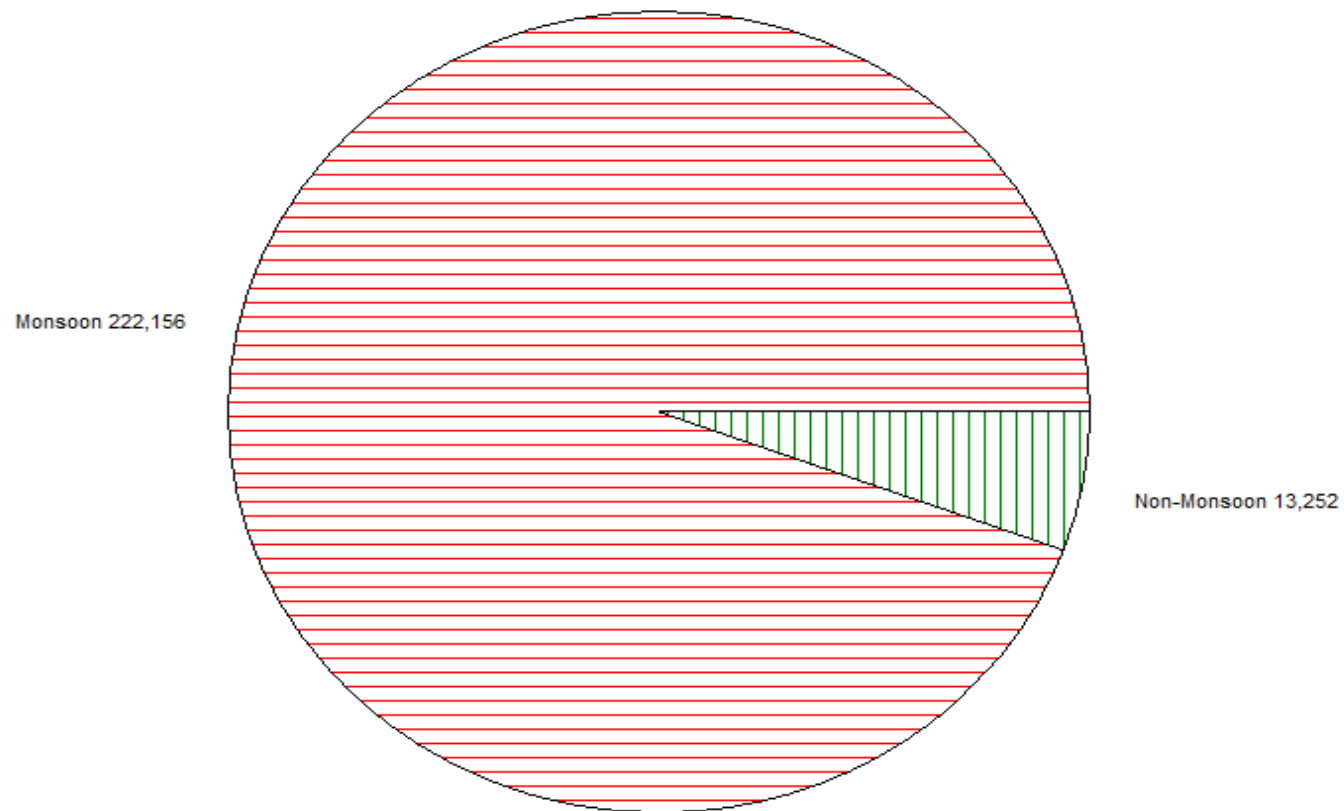
Seasonal Sediment Load for the period : 1998-2021

Station Name : BYLADAHALLI ( AKLB0D3)

Local River : Haridra

Division : Cauvery Division, Bangalore

Sub-Division : Upper Tunga SD, Devangere



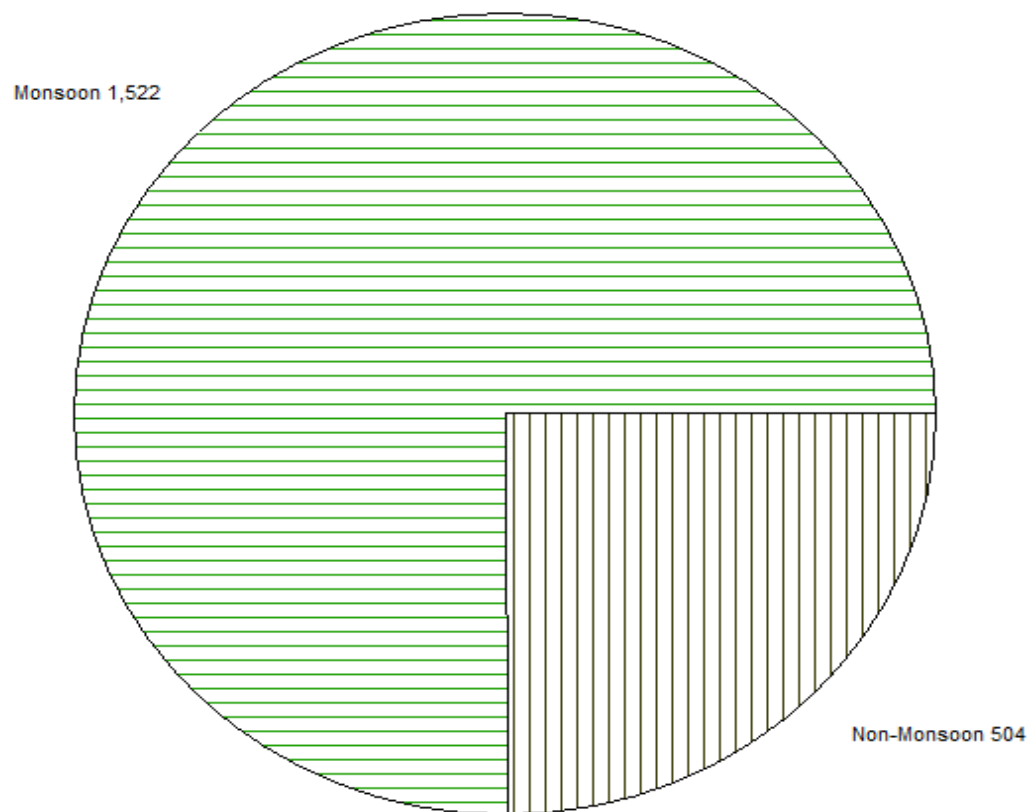
Seasonal Sediment Load for the Year: 2021-2022

Station Name : BYLADAHALLI ( AKLB0D3)

Local River : Haridra

Division : Cauvery Division, Bangalore

Sub-Division : Upper Tunga SD, Devangere



**Note: Bed Material survey could not done due to high depth in river.**

## HISTORY SHEET

|                          |                                      |                          |                                |
|--------------------------|--------------------------------------|--------------------------|--------------------------------|
|                          |                                      | <b>Water Year</b>        | <b>: 2021-2022</b>             |
| <b>Site</b>              | <b>: HARALAHALLI</b>                 | <b>Code</b>              | <b>: AKL00S8</b>               |
| State                    | : Karnataka                          | District                 | Haveri                         |
| Basin                    | : Krishna                            | Independent River        | : Krishna                      |
| Tributary                | : Tungabhadra                        | Sub Tributary            | :                              |
| Sub-Sub Tributary        | :                                    | Local River              | : Tungabhadra                  |
| Division                 | : Cauvery Division, Bangalore        | Sub-Division             | : Upper Tunga Subdn, Devangere |
| Drainage Area            | : 14582 Sq. Km.                      | Bank                     | : Left                         |
| Latitude                 | : 14°49'50"                          | Longitude                | : 75°40'28"                    |
| <b>Zero of Gauge (m)</b> | : 507.436 (m.s.l)<br>507.436 (m.s.l) | 28-03-1964<br>11-08-1965 | 10-08-1965                     |
|                          | Opening Date                         | Closing Date             |                                |
| Gauge                    | : 11-08-1965                         |                          |                                |
| Discharge                | : 13-12-1966                         |                          |                                |
| Sediment                 | : 01-11-1972                         |                          |                                |
| Water Quality            | : 01-11-1972                         |                          |                                |

Station Name : HARALAHALLI ( AKL00S8)

Division : Cauvery Division, Bangalore

Local River : Tungabhadra

Sub-Division : Upper Tunga Subdn, Devangere

Discharge observation done by Slope-Area method,therefore Sediment observation not  
done from 01/06/2021 to 31/05/2022



## Annual Sediment Load for period : 1973-2022

Station Name : HARALAHALLI ( AKL00S8)

Division : Cauvery Division, Bangalore

Local River : Tungabhadra

Sub-Division : Upper Tunga Subdn, Devangere

| Year      | Monsoon<br>(M.T.) | Non-Monsoon<br>(M.T.) | Annual Load<br>(M.T.) | Annual Run Off<br>(MCM) |
|-----------|-------------------|-----------------------|-----------------------|-------------------------|
| 1973-1974 | 1549719           | 61723                 | 1611442               | 7280                    |
| 1974-1975 | 1144907           | 45207                 | 1190114               | 6479                    |
| 1975-1976 | 2099792           | 31137                 | 2130929               | 10519                   |
| 1976-1977 | 610696            | 88856                 | 699553                | 4773                    |
| 1977-1978 | 1342265           | 118636                | 1460901               | 6723                    |
| 1978-1979 | 1942722           | 18695                 | 1961417               | 12135                   |
| 1979-1980 | 1314727           | 95138                 | 1409865               | 6126                    |
| 1980-1981 | 1600577           | 113431                | 1714008               | 10302                   |
| 1981-1982 | 1075289           | 28182                 | 1103470               | 7601                    |
| 1982-1983 | 2213745           | 11761                 | 2225506               | 6996                    |
| 1983-1984 | 1096574           | 14850                 | 1111424               | 7072                    |
| 1984-1985 | 801914            | 32150                 | 834064                | 7077                    |
| 1985-1986 | 578203            | 2332                  | 580535                | 5557                    |
| 1986-1987 | 1550375           | 3957                  | 1554332               | 5434                    |
| 1987-1988 | 958574            | 27320                 | 985893                | 3926                    |
| 1988-1989 | 1082364           | 17416                 | 1099780               | 5297                    |
| 1989-1990 | 735260            | 7963                  | 743222                | 5850                    |
| 1990-1991 | 646225            | 71476                 | 717700                | 7711                    |
| 1991-1992 | 1469278           | 15021                 | 1484299               | 8548                    |
| 1992-1993 | 6885725           | 11545                 | 6897270               | 11565                   |
| 1993-1994 | 654731            | 8777                  | 663508                | 7251                    |
| 1994-1995 | 1131614           | 12692                 | 1144306               | 12180                   |
| 1995-1996 | 582185            | 6923                  | 589108                | 5004                    |
| 1996-1997 | 391921            | 6069                  | 397990                | 5273                    |
| 1997-1998 | 960621            | 23670                 | 984291                | 7855                    |
| 1998-1999 | 896834            | 20596                 | 917429                | 7647                    |
| 1999-2000 | 1342626           | 6378                  | 1349004               | 8478                    |
| 2000-2001 | 719278            | 22344                 | 741621                | 7772                    |
| 2001-2002 | 183459            | 8666                  | 192126                | 5077                    |
| 2002-2003 | 186941            | 807                   | 187748                | 3703                    |
| 2003-2004 | 126410            | 383                   | 126793                | 3369                    |
| 2004-2005 | 81971             | 1537                  | 83508                 | 4972                    |
| 2005-2006 | 718879            | 4305                  | 723184                | 7560                    |
| 2006-2007 | 0                 | 0                     | 0                     | 7179                    |
| 2007-2008 | 0                 | 0                     | 0                     | 10232                   |
| 2008-2009 | 2258785           | 14922                 | 2273707               | 6668                    |
| 2009-2010 | 1446772           | 7356                  | 1454128               | 7824                    |
| 2010-2011 | 721432            | 18050                 | 739482                | 7094                    |
| 2011-2012 | 555233            | 18604                 | 573837                | 6484                    |
| 2012-2013 | 180885            | 717                   | 181602                | 4153                    |
| 2013-2014 | 761542            | 8573                  | 770115                | 8470                    |
| 2014-2015 | 1572077           | 2460                  | 1574537               | 7269                    |
| 2015-2016 | 150095            | 336                   | 150431                | 3063                    |
| 2016-2017 | 214947            | 434                   | 215382                | 2213                    |
| 2017-2018 | 122533            | 2935                  | 125467                | 2433                    |
| 2018-2019 | 0                 | 0                     | 0                     | 7345                    |
| 2019-2020 | 0                 | 0                     | 0                     | 7419                    |
| 2020-2021 | 0                 | 0                     | 0                     | 4827                    |
| 2021-2022 | 0                 | 0                     | 0                     | 6804                    |

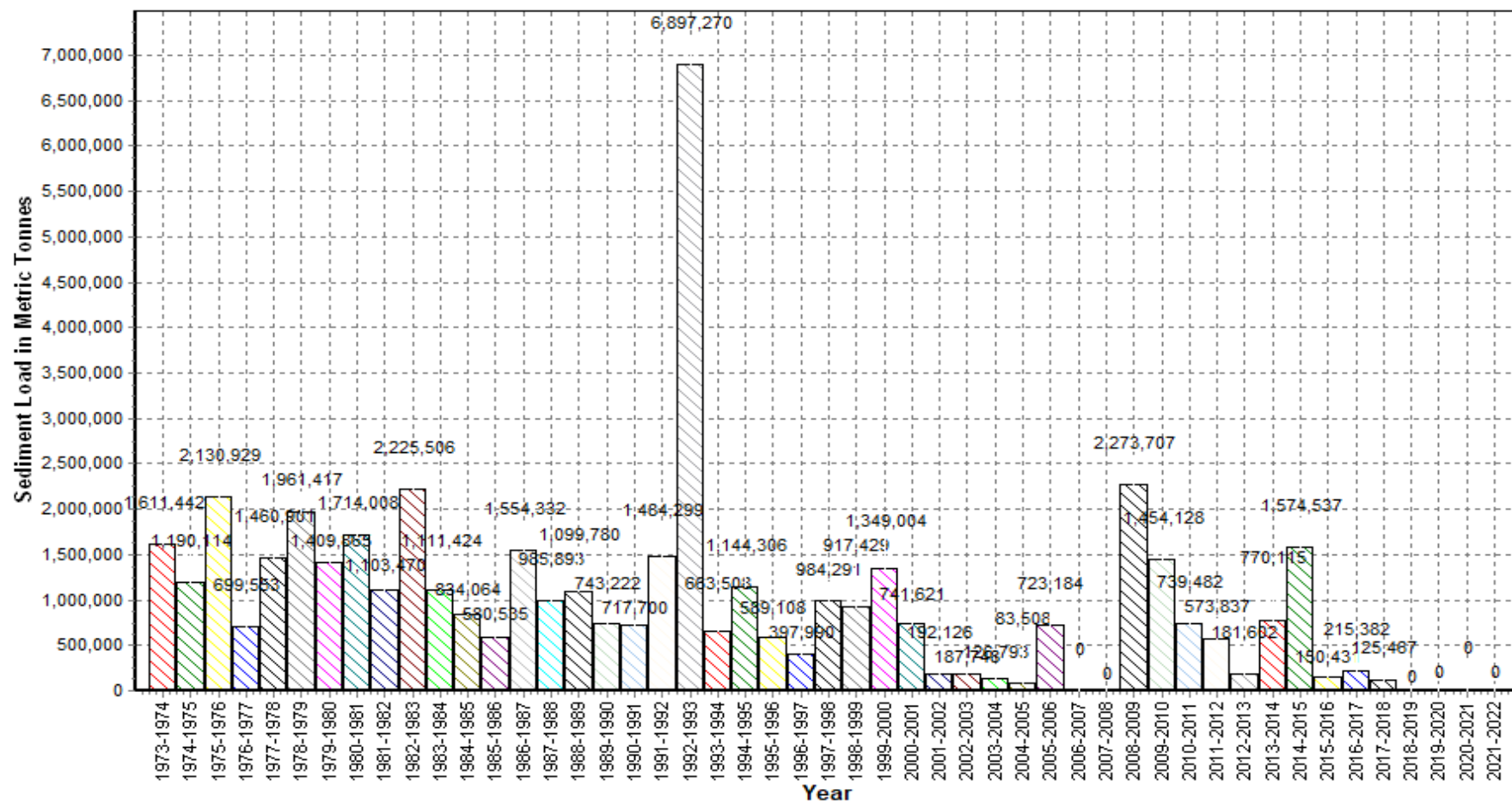
# Annual Sediment Load for the period: 1973-2022

Station Name : HARALAHALLI ( AKL00S8)

Local River : Tungabhadra

Division : Cauvery Division, Bangalore

Sub-Division : Upper Tunga Subdn, Devangere



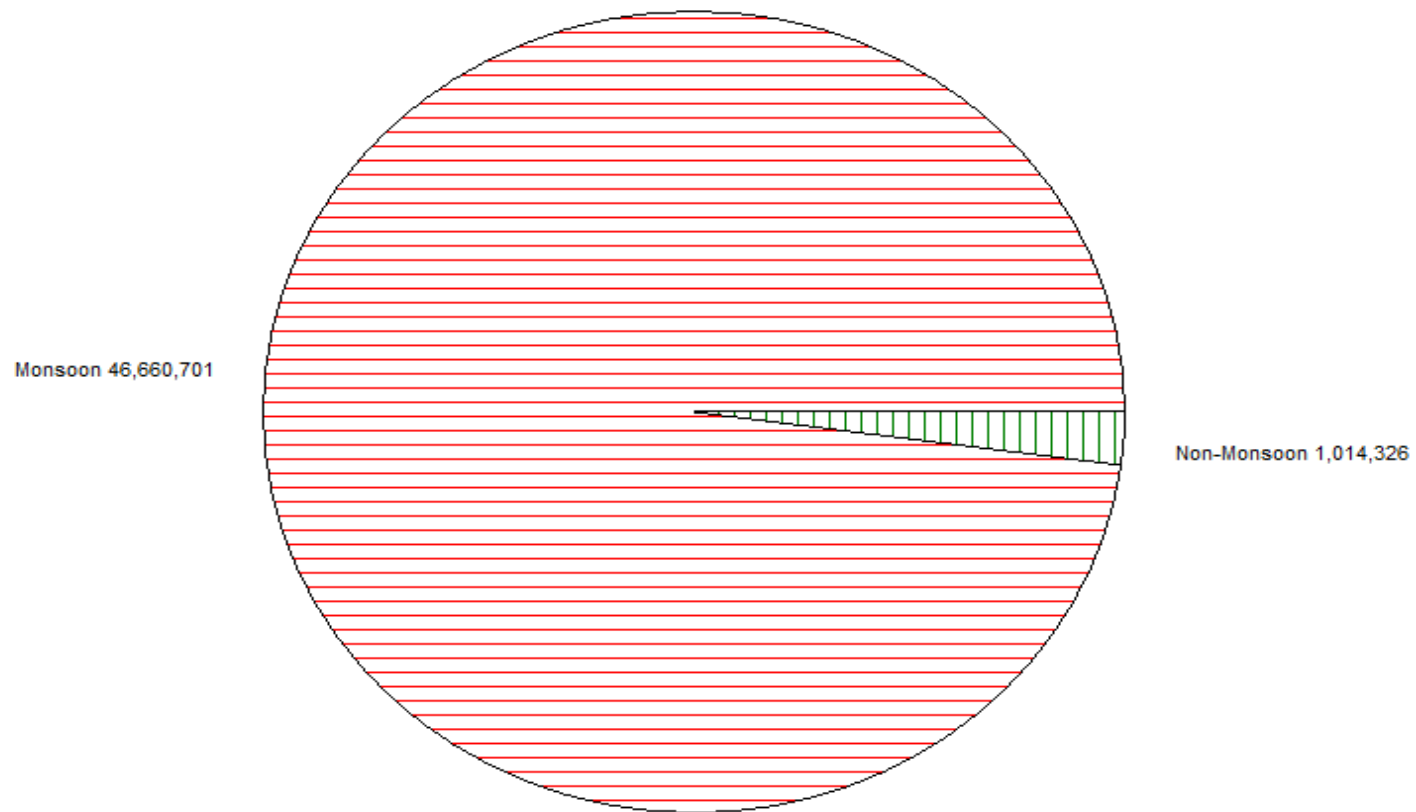
Seasonal Sediment Load for the period : 1973-2021

Station Name : HARALAHALLI ( AKL00S8)

Local River : Tungabhadra

Division : Cauvery Division, Bangalore

Sub-Division : Upper Tunga Subdn, Devangere



## BED MATERIAL ANALYSIS DATA FOR THE YEAR 2021-22

SITE : TUNGABHADRA AT HARALAHALLI

CODE : AKL00S8

MEASURING  
AUTHORITY :CDN

WATER YEAR : 2021-22

### Premonsoon Survey ( Date 01/06/2021 )

|                     |   |                |       |                      |     |       |     |       |       |
|---------------------|---|----------------|-------|----------------------|-----|-------|-----|-------|-------|
| Discharged Observed | : | <b>42.01</b>   | cumec | Water edge           | RB: | 252.0 | LB: | 54.0  | m     |
| Area of section     | : | <b>297.75</b>  | sq.m  | Mean Velocity        |     |       |     | 0.141 | m/sec |
| Wetted Perimeter    | : | <b>203.149</b> | m     | Hydraulic Mean Depth |     |       |     | 1.466 | m     |

| Sl. No. | R.D. of sampling point in meters | R.L. of Dry Bed | R.L. of bed in meters | Mean diameter in mm | Remarks                                        |
|---------|----------------------------------|-----------------|-----------------------|---------------------|------------------------------------------------|
| 1       | 60                               | --              | 506.626               | 0.00                |                                                |
| 2       | 130                              | --              | 505.726               | 1.51                | Av.mean                                        |
| 3       | 200                              | --              | 506.316               | 4.45                | dia "m" 2.36                                   |
| 4       | 270                              | 508.246         | Dry bed               | 5.37                |                                                |
| 5       | 330                              | 511.086         | Dry bed               | 0.48                | Silt factor<br>"f" = 1.76 $\sqrt{m}$<br>= 2.70 |

1.53622915  
2.703763303

**Note:**

- i. Discharge observation was at station guage line
- ii. River bed : Flowing water

### Monsoon Survey ( Date 28/10/2021 )

|                     |   |         |       |                      |     |       |     |       |       |
|---------------------|---|---------|-------|----------------------|-----|-------|-----|-------|-------|
| Discharged Observed | : | 237.40  | cumec | Water edge           | RB: | 290.0 | LB: | 42.0  | m     |
| Area of section     | : | 597.71  | sq.m  | Mean Velocity        |     |       |     | 0.397 | m/sec |
| Wetted Perimeter    | : | 251.255 | m     | Hydraulic Mean Depth |     |       |     | 2.379 | m     |

| Sl. No. | R.D. of sampling point in meters | R.L. of Dry Bed | R.L. of bed in meters | Mean diameter in mm | Remarks                                        |
|---------|----------------------------------|-----------------|-----------------------|---------------------|------------------------------------------------|
| 1       | 60                               | --              | 506.796               | 0.00                |                                                |
| 2       | 130                              | --              | 505.856               | 2.47                | Av.mean                                        |
| 3       | 200                              | --              | 506.476               | 5.08                | dia "m" 3.08                                   |
| 4       | 270                              | --              | 508.316               | 5.92                |                                                |
| 5       | 330                              | 511.101         | Dry bed               | 1.93                | Silt factor<br>"f" = 1.76 $\sqrt{m}$<br>= 3.08 |

1.754992877  
3.088787464

**Note:**

- i. Discharge observed by slope-area method.
- ii. River bed : Flowing water

### Postmonsoon Survey ( Date 06/01/2022 )

|                     |   |                |       |                      |     |       |     |       |       |
|---------------------|---|----------------|-------|----------------------|-----|-------|-----|-------|-------|
| Discharged Observed | : | <b>19.21</b>   | cumec | Water edge           | RB: | 250.0 | LB: | 54.0  | m     |
| Area of section     | : | <b>235.98</b>  | sq.m  | Mean Velocity        |     |       |     | 0.081 | m/sec |
| Wetted Perimeter    | : | <b>196.139</b> | m     | Hydraulic Mean Depth |     |       |     | 1.203 | m     |

| Sl. No. | R.D. of sampling point in meters | R.L. of Dry Bed | R.L. of bed in meters | Mean diameter in mm | Remarks                                        |
|---------|----------------------------------|-----------------|-----------------------|---------------------|------------------------------------------------|
| 1       | 60                               | --              | 506.806               | 0.00                |                                                |
| 2       | 130                              | --              | 505.796               | 5.11                | Av.mean                                        |
| 3       | 200                              | --              | 506.526               | 2.51                | dia "m" 2.93                                   |
| 4       | 270                              | 508.106         | Dry bed               | 5.17                |                                                |
| 5       | 330                              | 511.036         | Dry bed               | 1.84                | Silt factor<br>"f" = 1.76 $\sqrt{m}$<br>= 3.01 |

1.711724277  
3.012634727

**Note:**

- i. Discharge observed by slope-area method.
- ii. River bed : Flowing water

## HISTORY SHEET

|                          |                                      |                   |                                |
|--------------------------|--------------------------------------|-------------------|--------------------------------|
|                          |                                      | <b>Water Year</b> | <b>: 2021-2022</b>             |
| <b>Site</b>              | <b>: MAROL</b>                       | <b>Code</b>       | <b>: AKLA0C4</b>               |
| State                    | : Karnataka                          | District          | Haveri                         |
| Basin                    | : Krishna                            | Independent River | : Krishna                      |
| Tributary                | : Tungabhadra                        | Sub Tributary     | :                              |
| Sub-Sub Tributary        | :                                    | Local River       | : Varada                       |
| Division                 | : Cauvery Division, Bangalore        | Sub-Division      | : Upper Tunga Subdn, Devangere |
| Drainage Area            | : 4901 Sq. Km.                       | Bank              | : Right                        |
| Latitude                 | : 14°56'20"                          | Longitude         | : 75°37'05"                    |
| <b>Zero of Gauge (m)</b> | : 507.551 (m.s.l)<br>507.551 (m.s.l) | 05-02-1965        | 10-08-1965                     |
|                          | Opening Date                         | Closing Date      |                                |
| Gauge                    | : 05-02-1965                         |                   |                                |
| Discharge                | : 01-02-1966                         |                   |                                |
| Sediment                 | : 16-09-1972                         |                   |                                |
| Water Quality            | : 01-02-1973                         |                   |                                |

**Daily Observed Sediment Datasheet for period : 2021-2022**

Station Name : MAROL ( AKLA0C4)

Local River : Varada

Division : Cauvery Division, Bangalore

Sub-Division : Upper Tunga Subdn, Devangere

| Day                   | Jun          |               |               |             |              |                   | Jul          |               |               |             |              |                   | Aug          |               |               |             |              |                   |
|-----------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                       | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 30.10        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 328.4        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 2                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 26.03        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 282.4        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 3                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 21.54        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 241.1        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 4                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 19.75        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 211.0        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 5                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 18.02        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 205.2        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 6                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 26.03        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 302.2        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 7                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 19.29        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 307.2        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 8                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 18.41        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 284.4        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 9                     | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 16.15        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 308.6        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 10                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 14.35        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 254.0        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 11                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 13.22        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 191.1        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 12                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 12.56        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 152.8        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 13                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 12.27        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 132.6        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 14                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 15.34        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 124.9        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 15                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 31.15        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 118.2        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 16                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 187.3        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 93.15        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 17                    | 60.07        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 321.1        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 80.08        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 18                    | 120.8        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 324.0        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 84.18        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 19                    | 191.1        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 314.2        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 85.38        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 20                    | 319.7        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 321.1        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 79.43        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 21                    | 339.0        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 292.8        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 76.80        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 22                    | 290.5        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 281.1        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 70.82        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 23                    | 248.4        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 376.4        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 62.83        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 24                    | 196.8        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 814.7        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 53.82        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 25                    | 146.1        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 1136         | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 47.25        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 26                    | 90.09        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 1324         | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 41.74        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 27                    | 60.15        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 1307         | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 44.87        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 28                    | 51.26        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 1186         | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 39.96        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 29                    | 45.18        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 934.0        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 42.15        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 30                    | 37.04        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 514.1        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 70.04        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 31                    |              |               |               |             |              |                   | 380.2        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 75.55        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| <b>Ten Daily Mean</b> |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| <b>Ten Daily I</b>    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 20.97        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 272.5        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| <b>Ten Daily II</b>   | 69.16        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 155.2        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 114.2        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| <b>Ten Daily III</b>  | 150.4        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 776.9        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 56.89        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| <b>Monthly</b>        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| <b>Total</b>          |              |               |               |             |              | 0                 |              |               |               |             |              | 0                 |              |               |               |             |              | 0                 |

Annual Sediment Load (Metric Tonnes) : 0

**Daily Observed Sediment Datasheet for period : 2021-2022**

Station Name : MAROL ( AKLA0C4)

Local River : Varada

Division : Cauvery Division, Bangalore

Sub-Division : Upper Tunga Subdn, Devangere

| Day            | Sep          |               |               |             |              |                   | Oct          |               |               |             |              |                   | Nov          |               |               |             |              |                   |
|----------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1              | 69.12        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 43.01        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 29.50        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 2              | 55.42        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 42.15        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 24.04        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 3              | 53.91        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 53.90        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 21.21        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 4              | 68.21        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 101.8        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 20.29        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 5              | 66.64        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 97.87        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 17.53        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 6              | 62.94        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 97.87        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 19.27        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 7              | 78.93        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 107.0        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 24.20        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 8              | 105.6        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 383.2        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 34.86        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 9              | 121.7        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 410.1        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 24.56        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 10             | 146.7        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 223.5        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 20.14        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 11             | 154.1        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 120.8        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 13.36        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 12             | 128.5        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 89.00        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 8.188        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 13             | 110.7        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 119.7        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 5.764        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 14             | 128.0        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 87.92        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 15             | 187.3        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 127.5        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 16             | 206.4        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 105.6        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 17             | 175.5        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 79.43        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 18             | 136.9        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 58.83        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 97.00        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 19             | 98.63        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 45.71        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 104.4        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 20             | 77.80        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 37.91        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 357.6        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 21             | 62.83        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 35.41        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 597.3        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 22             | 53.95        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 28.81        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 556.2        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 23             | 51.26        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 33.80        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 286.8        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 24             | 44.87        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 80.31        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 128.9        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 25             | 43.01        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 170.7        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 87.80        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 26             | 46.44        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 193.3        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 70.10        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 27             | 37.91        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 200.5        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 55.76        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 28             | 28.81        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 130.1        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 47.90        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 29             | 26.79        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 75.50        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 36.41        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 30             | 31.15        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 50.73        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 34.86        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 31             |              |               |               |             |              |                   | 38.01        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |              |               |               |             |              |                   |
| Ten Daily Mean |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Ten Daily I    | 82.92        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 156.0        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 23.56        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Ten Daily II   | 140.4        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 87.23        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 58.64        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Ten Daily III  | 42.70        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 94.29        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 190.2        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Monthly        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Total          |              |               |               |             |              | 0                 |              |               |               |             |              | 0                 |              |               |               |             |              | 0                 |

Annual Sediment Load (Metric Tonnes) : 0

**Daily Observed Sediment Datasheet for period : 2021-2022**

Station Name : MAROL ( AKLA0C4)

Local River : Varada

Division : Cauvery Division, Bangalore

Sub-Division : Upper Tunga Subdn, Devangere

| Day            | Dec          |               |               |             |              |                   | Jan          |               |               |             |              |                   | Feb          |               |               |             |              |                   |
|----------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1              | 28.59        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 2              | 26.01        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 3              | 44.65        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 4              | 50.10        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 5              | 42.59        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 6              | 42.06        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 7              | 32.32        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 8              | 25.88        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 9              | 20.14        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 10             | 18.41        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 11             | 15.37        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 12             | 9.387        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 13             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 14             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 15             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 16             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 17             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 18             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 19             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 20             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 21             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 22             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 23             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 24             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 25             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 26             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 27             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 28             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 29             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |              |               |               |             |              |                   |
| 30             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |              |               |               |             |              |                   |
| 31             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |              |               |               |             |              |                   |
| Ten Daily Mean |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Ten Daily I    | 33.07        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Ten Daily II   | 2.475        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Ten Daily III  | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Monthly        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Total          |              |               |               |             |              | 0                 |              |               |               |             |              | 0                 |              |               |               |             |              | 0                 |

Annual Sediment Load (Metric Tonnes) : 0



**Daily Observed Sediment Datasheet for period : 2021-2022**

Station Name : MAROL ( AKLA0C4)

Local River : Varada

Division : Cauvery Division, Bangalore

Sub-Division : Upper Tunga Subdn, Devangere

| Day            | Mar          |               |               |             |              |                   | Apr          |               |               |             |              |                   | May          |               |               |             |              |                   |
|----------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 2              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 3              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 4              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 5              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 6              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 7              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 8              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 9              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 10             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 11             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 12             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 13             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 14             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 15             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 16             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 17             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 18             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 19             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 20             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 68.89        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 21             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 408.9        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 22             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 199.6        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 23             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 106.3        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 24             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 43.97        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 25             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 29.74        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 26             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 7.113        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 27             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 6.085        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 28             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 6.969        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 29             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 8.196        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 30             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 5.575        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 31             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |              |               |               |             |              |                   | 6.085        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Ten Daily Mean |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Ten Daily I    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Ten Daily II   | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 6.889        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Ten Daily III  | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 75.32        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Monthly        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Total          |              |               |               |             |              | 0                 |              |               |               |             |              | 0                 |              |               |               |             |              | 0                 |

Annual Sediment Load (Metric Tonnes) : 0

## Annual Sediment Load for period : 1973-2022

Station Name : MAROL ( AKLA0C4)

Local River : Varada

Division : Cauvery Division, Bangalore

Sub-Division : Upper Tunga Subdn, Devangere

| Year      | Monsoon<br>(M.T.) | Non-Monsoon<br>(M.T.) | Annual Load<br>(M.T.) | Annual Run Off<br>(MCM) |
|-----------|-------------------|-----------------------|-----------------------|-------------------------|
| 1973-1974 | 424205            | 3958                  | 428162                | 1604                    |
| 1974-1975 | 482820            | 35324                 | 518144                | 1633                    |
| 1975-1976 | 652131            | 8872                  | 661003                | 2544                    |
| 1976-1977 | 233109            | 382506                | 615615                | 916                     |
| 1977-1978 | 491944            | 180237                | 672181                | 1383                    |
| 1978-1979 | 1255679           | 856                   | 1256535               | 2518                    |
| 1979-1980 | 604616            | 34218                 | 638834                | 1497                    |
| 1980-1981 | 1295730           | 1891                  | 1297621               | 3370                    |
| 1981-1982 | 358264            | 2828                  | 361092                | 1853                    |
| 1982-1983 | 877300            | 876                   | 878175                | 2876                    |
| 1983-1984 | 368014            | 411                   | 368424                | 2409                    |
| 1984-1985 | 496587            | 273                   | 496860                | 2169                    |
| 1985-1986 | 247292            | 62                    | 247354                | 1322                    |
| 1986-1987 | 628943            | 83                    | 629027                | 1502                    |
| 1987-1988 | 408831            | 10696                 | 419527                | 820                     |
| 1988-1989 | 555744            | 0                     | 555744                | 1908                    |
| 1989-1990 | 319841            | 0                     | 319841                | 1251                    |
| 1990-1991 | 180951            | 0                     | 180951                | 1822                    |
| 1991-1992 | 821828            | 17                    | 821844                | 3255                    |
| 1992-1993 | 1028317           | 3574                  | 1031891               | 3494                    |
| 1993-1994 | 576588            | 38242                 | 614830                | 2000                    |
| 1994-1995 | 761639            | 84                    | 761724                | 3432                    |
| 1995-1996 | 307626            | 0                     | 307626                | 1225                    |
| 1996-1997 | 200660            | 0                     | 200660                | 1045                    |
| 1997-1998 | 442212            | 17443                 | 459655                | 2565                    |
| 1998-1999 | 386574            | 47                    | 386621                | 1837                    |
| 1999-2000 | 1166806           | 0                     | 1166806               | 2120                    |
| 2000-2001 | 513348            | 0                     | 513348                | 2017                    |
| 2001-2002 | 55587             | 0                     | 55587                 | 803                     |
| 2002-2003 | 134702            | 0                     | 134702                | 805                     |
| 2003-2004 | 157605            | 0                     | 157605                | 847                     |
| 2004-2005 | 225625            | 0                     | 225625                | 1394                    |
| 2005-2006 | 973986            | 0                     | 973986                | 2325                    |
| 2006-2007 | 0                 | 0                     | 0                     | 2541                    |
| 2007-2008 | 0                 | 0                     | 0                     | 3420                    |
| 2008-2009 | 463398            | 0                     | 463398                | 1901                    |
| 2009-2010 | 725313            | 0                     | 725313                | 2325                    |
| 2010-2011 | 417161            | 6688                  | 423848                | 2065                    |
| 2011-2012 | 416842            | 3976                  | 420819                | 2568                    |
| 2012-2013 | 130862            | 0                     | 130862                | 1344                    |
| 2013-2014 | 303786            | 0                     | 303786                | 2622                    |
| 2014-2015 | 172709            | 0                     | 172709                | 2727                    |
| 2015-2016 | 22028             | 0                     | 22028                 | 528                     |
| 2016-2017 | 12045             | 0                     | 12045                 | 360                     |
| 2017-2018 | 3937              | 0                     | 3937                  | 688                     |
| 2018-2019 | 0                 | 0                     | 0                     | 1585                    |
| 2019-2020 | 0                 | 0                     | 0                     | 3234                    |
| 2020-2021 | 0                 | 0                     | 0                     | 1720                    |
| 2021-2022 | 0                 | 0                     | 0                     | 2342                    |

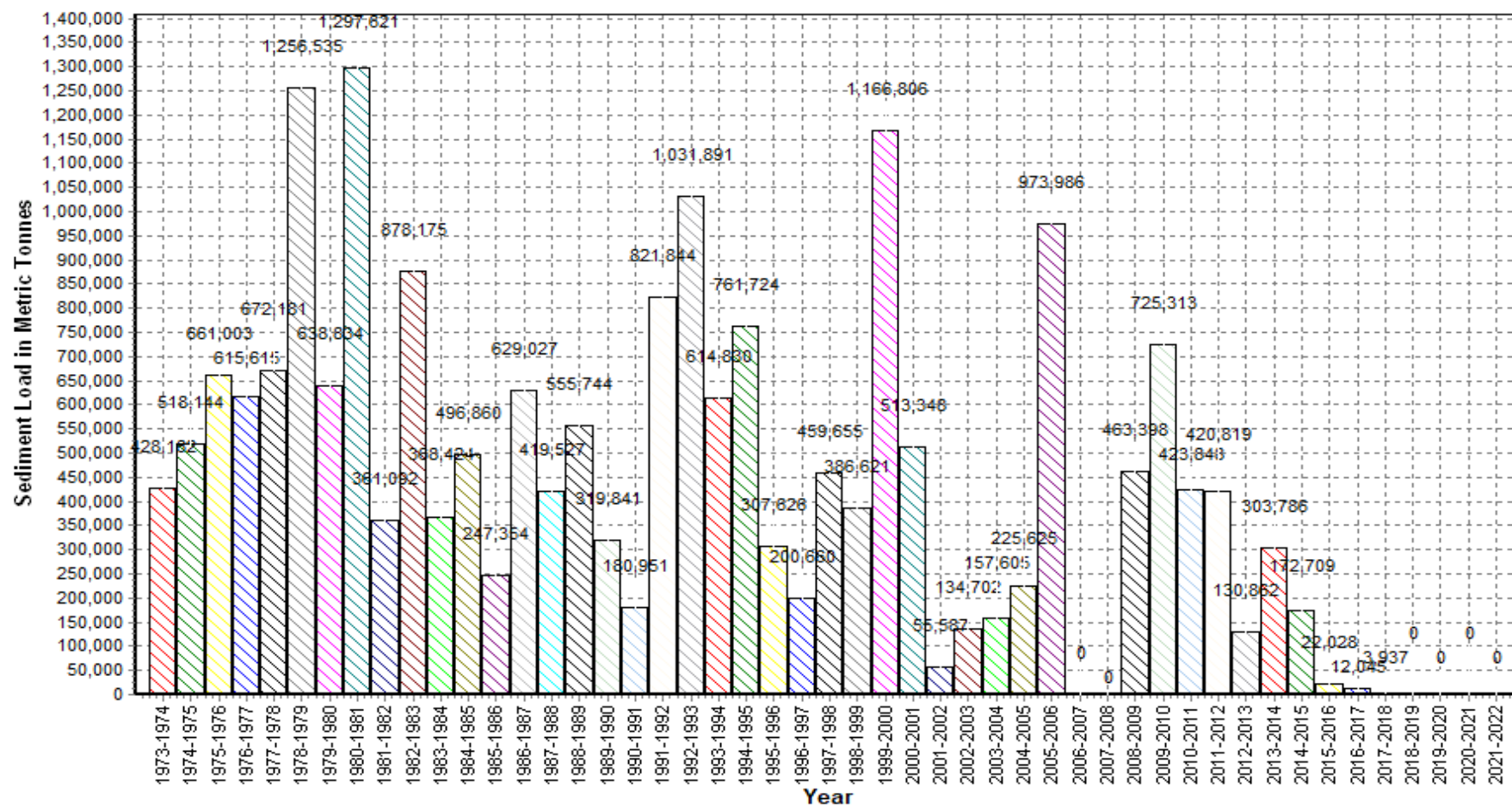
# Annual Sediment Load for the period: 1973-2022

Station Name : MAROL ( AKLA0C4)

Local River : Varada

Division : Cauvery Division, Bangalore

Sub-Division : Upper Tunga Subdn, Devangere



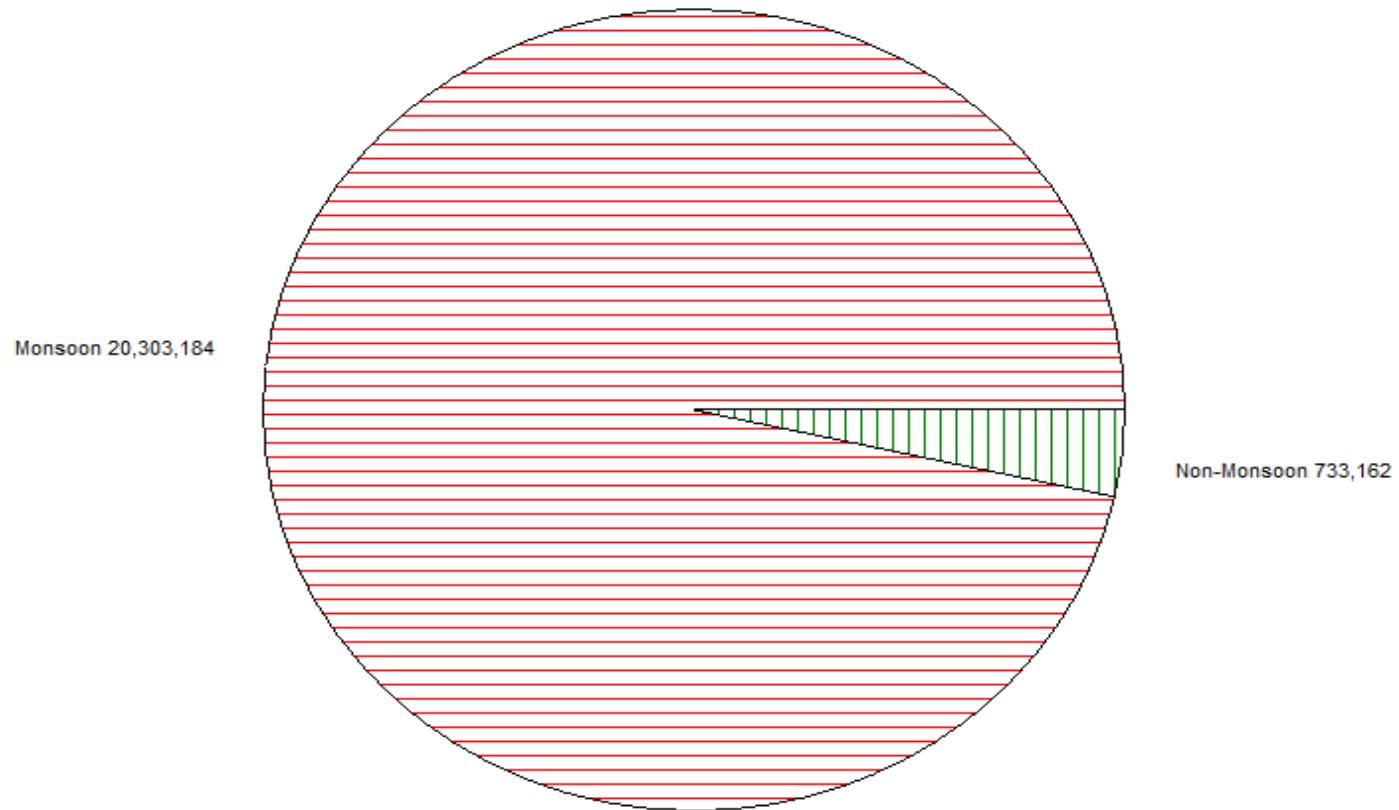
Seasonal Sediment Load for the period : 1973-2021

Station Name : MAROL ( AKLA0C4)

Local River : Varada

Division : Cauvery Division, Bangalore

Sub-Division : Upper Tunga Subdn, Devangere



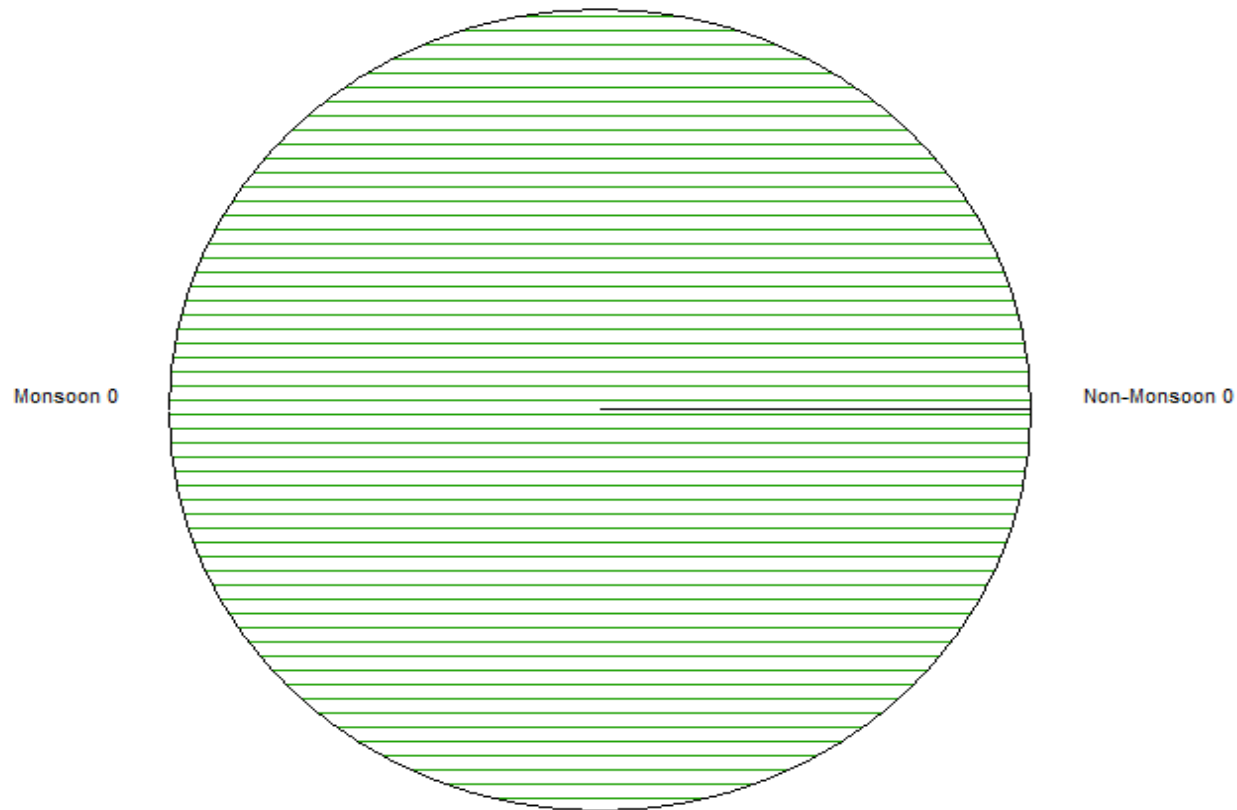
Seasonal Sediment Load for the Year: 2021-2022

Station Name : MAROL ( AKLA0C4)

Local River : Varada

Division : Cauvery Division, Bangalore

Sub-Division : Upper Tunga Subdn, Devangere



## BED MATERIAL ANALYSIS DATA FOR THE YEAR 2021-22

SITE VARADA AT MAROL CODE : AKLA0C4  
 MEASURING AUTHORITY CDN WATER YEAR : 2021-22

### Premonsoon Survey ( Date 03/06/2021)

Discharged Observed : **Q observation not done due to dry bed** Water edge RB: 364 LB: 312 m  
 Area of section : Mean Velocity - m/sec  
 Wetted Perimeter : Hydraulic Mean Depth - m

| Sl. No. | R.D. of sampling point in meters | R.L. of Dry Bed | R.L. of bed in meters | Mean diameter in mm | Remarks                                |
|---------|----------------------------------|-----------------|-----------------------|---------------------|----------------------------------------|
| 1       | 280                              | 508.391         | Dry Bed               | 1.40                | Av.mean                                |
| 2       | 320                              | Dry Bed         | 507.831               | 1.25                | dia "m" 2.53                           |
| 3       | 360                              | Dry Bed         | 507.241               | 4.93                |                                        |
|         |                                  |                 |                       |                     | Silt factor<br>"f" = 1.76 √m<br>= 2.80 |

1.590597  
2.799451

**Note:**  
 i. Discharge not observed due to dry bed  
 ii. River bed : dry bed

### Monsoon Survey ( Date 29/10/2021 )

Discharged Observed : **Q observation not done due to pooling effect** Water edge RB: 374.0 LB: 278.0 m  
 Area of section : Mean Velocity : - m/sec  
 Wetted Perimeter : Hydraulic Mean Depth : - m

| Sl. No. | R.D. of sampling point in meters | R.L. of Dry Bed | R.L. of bed in meters | Mean diameter in mm | Remarks                               |
|---------|----------------------------------|-----------------|-----------------------|---------------------|---------------------------------------|
| 1       | 280                              | -               | 508.431               | 0.25                | Av.mean                               |
| 2       | 320                              | -               | 507.631               | 4.40                | dia "m" 2.37                          |
| 3       | 360                              | -               | 507.091               | 2.47                |                                       |
|         |                                  |                 |                       |                     | Silt factor<br>"f" = 1.76 √m<br>= 2.7 |

1.53948  
2.709486

**Note:**  
 i. Discharge not observed due to pooling water  
 ii. River bed : Stagnant water

### Postmonsoon Survey ( Date:08/01/2022 )

Discharged Observed : **Q observation not done due to pooling effect** Water edge RB: 374 LB: 285.0 m  
 Area of section : Mean Velocity -- m/sec  
 Wetted Perimeter : Hydraulic Mean Depth -- m

| Sl. No. | R.D. of sampling point in meters | R.L. of Dry Bed | R.L. of bed in meters | Mean diameter in mm | Remarks                                |
|---------|----------------------------------|-----------------|-----------------------|---------------------|----------------------------------------|
| 1       | 280                              | --              | 508.461               | 0.12                | Av.mean                                |
| 2       | 320                              | --              | 507.531               | 5.13                | dia "m" 2.5                            |
| 3       | 360                              | --              | 507.151               | 2.24                |                                        |
|         |                                  |                 |                       |                     | Silt factor<br>"f" = 1.76 √m<br>= 2.78 |

1.581139  
2.782804

**Note:**  
 i. Discharge not observed due to pooling water  
 ii. River bed : Stagnant water

## HISTORY SHEET

|                          |                                  |                   |                                 |
|--------------------------|----------------------------------|-------------------|---------------------------------|
|                          |                                  | <b>Water Year</b> | <b>: 2021-2022</b>              |
| <b>Site</b>              | <b>: Mantralayam</b>             | <b>Code</b>       | <b>: AKL00F2</b>                |
| State                    | : Andhra Pradesh                 | District          | Kurnool                         |
| Basin                    | : Krishna                        | Independent River | : Krishna                       |
| Tributary                | : Tungabhadra                    | Sub Tributary     | : -                             |
| Sub-Sub Tributary        | : -                              | Local River       | : Tungabhadra                   |
| Division                 | : Lower Krishna Divn., Hyderabad | Sub-Division      | : Lower Tungabhadra SD, Kurnool |
| Drainage Area            | : 60630 Sq. Km.                  | Bank              | : Right                         |
| Latitude                 | : 15°56'00"                      | Longitude         | : 77°25'00"                     |
| <b>Zero of Gauge (m)</b> | : 308.34 (m.s.l)                 | 10-03-1972        | - 30-11-1973                    |
|                          | 307.645 (m.s.l)                  | 01-12-1973        | - 31-05-1975                    |
|                          | 307.5 (m.s.l)                    | 01-06-1975        | - 31-05-1982                    |
|                          | 306 (m.s.l)                      | 01-06-1982        | - 09-02-1996                    |
|                          | 306 (m.s.l)                      | 10-02-1996        |                                 |
|                          | Opening Date                     | Closing Date      |                                 |
| Gauge                    | : 10-03-1972                     |                   |                                 |
| Discharge                | : 01-06-1972                     |                   |                                 |
| Sediment                 | : 26-07-1977                     |                   |                                 |
| Water Quality            | : 01-08-1977                     |                   |                                 |

**Note:- Sediment Observations Suspended 31-05-2006 and Restarted 01-06-2013.**

**Daily Observed Sediment Datasheet for period : 2021-2022**

**Station Name : Mantralayam ( AKL00F2)**

**Local River : Tungabhadra**

**Division : Lower Krishna Divn., Hyderabad**

**Sub-Division : Lower Tungabhadra SD, Kurnool**

| Day                   | Jun          |               |               |             |              |                   | Jul          |               |               |             |              |                   | Aug          |               |               |             |              |                   |
|-----------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                       | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1                     | 11.03        | 0.000         | 0.000         | 0.033       | 0.033        | 31                | 71.79        | 0.000         | 0.000         | 0.063       | 0.063        | 389               | 864.2        | 0.000         | 0.000         | 0.237       | 0.237        | 17719             |
| 2                     | 11.01        | 0.000         | 0.000         | 0.023       | 0.023        | 22                | 41.98        | 0.000         | 0.000         | 0.047       | 0.047        | 171               | 998.9        | 0.000         | 0.000         | 0.329       | 0.429        | 37024             |
| 3                     | 11.17        | 0.000         | 0.000         | 0.038       | 0.038        | 37                | 37.08        | 0.000         | 0.000         | 0.044       | 0.044        | 141               | 456.4        | 0.000         | 0.000         | 0.292       | 0.292        | 11526             |
| 4                     | 14.34        | 0.000         | 0.000         | 0.041       | 0.041        | 51                | 35.94        | 0.000         | 0.000         | 0.043       | 0.043        | 135               | 489.6        | 0.000         | 0.000         | 0.262       | 0.262        | 11096             |
| 5                     | 13.45        | 0.000         | 0.000         | 0.039       | 0.039        | 45                | 28.65        | 0.000         | 0.000         | 0.038       | 0.038        | 95                | 275.7        | 0.000         | 0.000         | 0.189       | 0.189        | 4507              |
| 6                     | 11.03        | 0.000         | 0.000         | 0.023       | 0.023        | 22                | 26.11        | 0.000         | 0.000         | 0.037       | 0.037        | 82                | 992.9        | 0.000         | 0.000         | 0.341       | 0.341        | 29220             |
| 7                     | 18.49        | 0.000         | 0.000         | 0.043       | 0.043        | 69                | 22.35        | 0.000         | 0.000         | 0.034       | 0.034        | 65                | 1000         | 0.000         | 0.000         | 0.328       | 0.328        | 28338             |
| 8                     | 47.60        | 0.000         | 0.000         | 0.050       | 0.050        | 207               | 17.21        | 0.000         | 0.000         | 0.029       | 0.029        | 43                | 933.4        | 0.000         | 0.000         | 0.247       | 0.247        | 19944             |
| 9                     | 51.17        | 0.000         | 0.000         | 0.052       | 0.052        | 232               | 14.31        | 0.000         | 0.000         | 0.027       | 0.027        | 33                | 1271         | 0.000         | 0.000         | 0.359       | 0.359        | 39432             |
| 10                    | 47.60        | 0.000         | 0.000         | 0.050       | 0.050        | 207               | 64.32        | 0.000         | 0.000         | 0.044       | 0.044        | 246               | 1435         | 0.000         | 0.000         | 0.478       | 0.478        | 59295             |
| 11                    | 41.63        | 0.000         | 0.000         | 0.047       | 0.047        | 169               | 50.63        | 0.000         | 0.000         | 0.052       | 0.052        | 228               | 1236         | 0.000         | 0.000         | 0.346       | 0.346        | 36913             |
| 12                    | 35.94        | 0.000         | 0.000         | 0.043       | 0.043        | 135               | 78.25        | 0.000         | 0.000         | 0.042       | 0.042        | 283               | 394.2        | 0.000         | 0.000         | 0.252       | 0.252        | 8590              |
| 13                    | 33.63        | 0.000         | 0.000         | 0.042       | 0.042        | 122               | 66.27        | 0.000         | 0.000         | 0.038       | 0.038        | 219               | 307.5        | 0.000         | 0.000         | 0.211       | 0.211        | 5598              |
| 14                    | 28.65        | 0.000         | 0.000         | 0.038       | 0.038        | 95                | 61.84        | 0.000         | 0.000         | 0.032       | 0.032        | 172               | 253.1        | 0.000         | 0.000         | 0.123       | 0.123        | 2691              |
| 15                    | 24.62        | 0.000         | 0.000         | 0.040       | 0.040        | 84                | 47.10        | 0.000         | 0.000         | 0.031       | 0.031        | 125               | 454.1        | 0.000         | 0.000         | 0.168       | 0.168        | 6600              |
| 16                    | 19.33        | 0.000         | 0.000         | 0.033       | 0.033        | 55                | 36.40        | 0.000         | 0.000         | 0.023       | 0.023        | 71                | 341.7        | 0.000         | 0.000         | 0.194       | 0.194        | 5728              |
| 17                    | 15.81        | 0.000         | 0.000         | 0.031       | 0.031        | 42                | 52.70        | 0.000         | 0.000         | 0.033       | 0.033        | 151               | 304.2        | 0.000         | 0.000         | 0.166       | 0.166        | 4362              |
| 18                    | 13.95        | 0.000         | 0.000         | 0.039       | 0.039        | 46                | 36.58        | 0.000         | 0.000         | 0.044       | 0.044        | 138               | 297.0        | 0.000         | 0.000         | 0.151       | 0.151        | 3874              |
| 19                    | 10.95        | 0.000         | 0.000         | 0.030       | 0.030        | 28                | 36.16        | 0.000         | 0.000         | 0.030       | 0.030        | 94                | 412.7        | 0.000         | 0.000         | 0.173       | 0.173        | 6172              |
| 20                    | 10.25        | 0.000         | 0.000         | 0.022       | 0.022        | 20                | 37.14        | 0.000         | 0.000         | 0.029       | 0.029        | 93                | 359.1        | 0.000         | 0.000         | 0.148       | 0.148        | 4604              |
| 21                    | 6.742        | 0.000         | 0.000         | 0.031       | 0.031        | 18                | 70.14        | 0.000         | 0.000         | 0.062       | 0.062        | 376               | 305.5        | 0.000         | 0.000         | 0.148       | 0.148        | 3899              |
| 22                    | 6.120        | 0.000         | 0.000         | 0.017       | 0.017        | 9                 | 134.7        | 0.000         | 0.000         | 0.052       | 0.052        | 609               | 306.6        | 0.000         | 0.000         | 0.136       | 0.136        | 3613              |
| 23                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 135.4        | 0.000         | 0.000         | 0.053       | 0.053        | 624               | 292.2        | 0.000         | 0.000         | 0.139       | 0.139        | 3514              |
| 24                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 111.7        | 0.000         | 0.000         | 0.047       | 0.047        | 450               | 382.7        | 0.000         | 0.000         | 0.140       | 0.140        | 4633              |
| 25                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 78.02        | 0.000         | 0.000         | 0.066       | 0.066        | 442               | 390.3        | 0.000         | 0.000         | 0.122       | 0.122        | 4118              |
| 26                    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 73.46        | 0.000         | 0.000         | 0.043       | 0.043        | 271               | 351.0        | 0.000         | 0.000         | 0.113       | 0.113        | 3427              |
| 27                    | 485.8        | 0.000         | 0.000         | 0.174       | 0.174        | 7322              | 2579         | 0.000         | 0.000         | 0.396       | 0.396        | 88116             | 296.4        | 0.000         | 0.000         | 0.104       | 0.104        | 2653              |
| 28                    | 434.0        | 0.000         | 0.000         | 0.164       | 0.164        | 6157              | 2293         | 0.000         | 0.000         | 0.388       | 0.388        | 76901             | 285.5        | 0.000         | 0.000         | 0.097       | 0.097        | 2400              |
| 29                    | 202.9        | 0.000         | 0.000         | 0.109       | 0.109        | 1918              | 1742         | 0.000         | 0.000         | 0.374       | 0.374        | 56351             | 246.1        | 0.000         | 0.000         | 0.121       | 0.121        | 2580              |
| 30                    | 109.2        | 0.000         | 0.000         | 0.079       | 0.079        | 741               | 753.7        | 0.000         | 0.000         | 0.315       | 0.315        | 20519             | 313.7        | 0.000         | 0.000         | 0.107       | 0.107        | 2889              |
| 31                    |              |               |               |             |              |                   | 1441         | 0.000         | 0.000         | 0.343       | 0.483        | 60141             | 237.9        | 0.000         | 0.000         | 0.085       | 0.085        | 1753              |
| <b>Ten Daily Mean</b> |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| <b>Ten Daily I</b>    | 23.69        | 0.000         | 0.000         | 0.039       | 0.039        | 92                | 35.97        | 0.000         | 0.000         | 0.041       | 0.041        | 140               | 871.7        | 0.000         | 0.000         | 0.306       | 0.316        | 25810             |
| <b>Ten Daily II</b>   | 23.47        | 0.000         | 0.000         | 0.037       | 0.037        | 80                | 50.31        | 0.000         | 0.000         | 0.035       | 0.035        | 157               | 436.0        | 0.000         | 0.000         | 0.193       | 0.193        | 8513              |
| <b>Ten Daily III</b>  | 124.5        | 0.000         | 0.000         | 0.057       | 0.057        | 1616              | 855.7        | 0.000         | 0.000         | 0.194       | 0.207        | 27709             | 309.8        | 0.000         | 0.000         | 0.119       | 0.119        | 3225              |
| <b>Monthly</b>        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| <b>Total</b>          |              |               |               |             |              |                   | 17884        |               |               |             |              | 307773            |              |               |               |             |              | 378712            |



**Daily Observed Sediment Datasheet for period : 2021-2022**

**Station Name : Mantralayam ( AKL00F2)**

**Local River : Tungabhadra**

**Division : Lower Krishna Divn., Hyderabad**

**Sub-Division : Lower Tungabhadra SD, Kurnool**

| Day                   | Sep          |               |               |             |              |                   | Oct          |               |               |             |              |                   | Nov          |               |               |             |              |                   |
|-----------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                       | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1                     | 171.1        | 0.000         | 0.000         | 0.079       | 0.079        | 1165              | 141.2        | 0.000         | 0.000         | 0.042       | 0.042        | 511               | 247.1        | 0.000         | 0.000         | 0.032       | 0.032        | 687               |
| 2                     | 152.2        | 0.000         | 0.000         | 0.072       | 0.072        | 948               | 134.5        | 0.000         | 0.000         | 0.030       | 0.030        | 349               | 260.9        | 0.000         | 0.000         | 0.029       | 0.029        | 656               |
| 3                     | 134.7        | 0.000         | 0.000         | 0.064       | 0.064        | 750               | 215.7        | 0.000         | 0.000         | 0.047       | 0.047        | 876               | 227.7        | 0.000         | 0.000         | 0.025       | 0.025        | 490               |
| 4                     | 209.7        | 0.000         | 0.000         | 0.095       | 0.095        | 1726              | 229.4        | 0.000         | 0.000         | 0.053       | 0.053        | 1045              | 229.1        | 0.000         | 0.000         | 0.050       | 0.050        | 990               |
| 5                     | 205.8        | 0.000         | 0.000         | 0.045       | 0.045        | 800               | 177.3        | 0.000         | 0.000         | 0.068       | 0.068        | 1037              | 181.9        | 0.000         | 0.000         | 0.018       | 0.018        | 289               |
| 6                     | 443.3        | 0.000         | 0.000         | 0.170       | 0.170        | 6497              | 978.7        | 0.000         | 0.000         | 0.183       | 0.183        | 15499             | 206.9        | 0.000         | 0.000         | 0.020       | 0.020        | 358               |
| 7                     | 728.1        | 0.000         | 0.000         | 0.374       | 0.374        | 23501             | 694.1        | 0.000         | 0.000         | 0.144       | 0.144        | 8659              | 209.1        | 0.000         | 0.000         | 0.046       | 0.046        | 831               |
| 8                     | 893.6        | 0.000         | 0.000         | 0.373       | 0.373        | 28791             | 861.1        | 0.000         | 0.000         | 0.173       | 0.173        | 12879             | 152.2        | 0.000         | 0.000         | 0.022       | 0.022        | 288               |
| 9                     | 492.5        | 0.000         | 0.000         | 0.174       | 0.174        | 7408              | 1128         | 0.000         | 0.000         | 0.233       | 0.233        | 22717             | 132.0        | 0.000         | 0.000         | 0.018       | 0.018        | 210               |
| 10                    | 295.7        | 0.000         | 0.000         | 0.064       | 0.064        | 1635              | 1317         | 0.000         | 0.000         | 0.270       | 0.270        | 30720             | 114.9        | 0.000         | 0.000         | 0.017       | 0.017        | 164               |
| 11                    | 288.4        | 0.000         | 0.000         | 0.063       | 0.063        | 1570              | 1242         | 0.000         | 0.000         | 0.214       | 0.214        | 22911             | 102.4        | 0.000         | 0.000         | 0.014       | 0.014        | 127               |
| 12                    | 401.8        | 0.000         | 0.000         | 0.086       | 0.086        | 2986              | 714.7        | 0.000         | 0.000         | 0.139       | 0.139        | 8584              | 98.12        | 0.000         | 0.000         | 0.111       | 0.111        | 941               |
| 13                    | 562.4        | 0.000         | 0.000         | 0.187       | 0.187        | 9062              | 451.0        | 0.000         | 0.000         | 0.113       | 0.113        | 4407              | 106.3        | 0.000         | 0.000         | 0.024       | 0.024        | 220               |
| 14                    | 527.7        | 0.000         | 0.000         | 0.194       | 0.194        | 8836              | 337.4        | 0.000         | 0.000         | 0.088       | 0.088        | 2577              | 149.2        | 0.000         | 0.000         | 0.033       | 0.033        | 426               |
| 15                    | 388.4        | 0.000         | 0.000         | 0.164       | 0.164        | 5511              | 730.4        | 0.000         | 0.000         | 0.153       | 0.153        | 9656              | 163.0        | 0.000         | 0.000         | 0.010       | 0.010        | 134               |
| 16                    | 966.1        | 0.000         | 0.000         | 0.207       | 0.207        | 17295             | 809.2        | 0.000         | 0.000         | 0.155       | 0.155        | 10830             | 212.5        | 0.000         | 0.000         | 0.008       | 0.008        | 138               |
| 17                    | 817.3        | 0.000         | 0.000         | 0.200       | 0.200        | 14094             | 933.4        | 0.000         | 0.000         | 0.194       | 0.194        | 15646             | 215.1        | 0.000         | 0.000         | 0.030       | 0.030        | 558               |
| 18                    | 720.6        | 0.000         | 0.000         | 0.162       | 0.162        | 10112             | 491.1        | 0.000         | 0.000         | 0.091       | 0.091        | 3870              | 233.9        | 0.000         | 0.000         | 0.035       | 0.035        | 703               |
| 19                    | 454.1        | 0.000         | 0.000         | 0.097       | 0.097        | 3806              | 405.8        | 0.000         | 0.000         | 0.087       | 0.087        | 3050              | 263.5        | 0.000         | 0.000         | 0.058       | 0.058        | 1321              |
| 20                    | 253.1        | 0.000         | 0.000         | 0.084       | 0.084        | 1835              | 296.3        | 0.000         | 0.000         | 0.091       | 0.091        | 2332              | 917.5        | 0.000         | 0.000         | 0.207       | 0.207        | 16410             |
| 21                    | 188.3        | 0.000         | 0.000         | 0.079       | 0.079        | 1284              | 236.4        | 0.000         | 0.000         | 0.057       | 0.057        | 1173              | 1394         | 0.000         | 0.000         | 0.286       | 0.286        | 34458             |
| 22                    | 296.8        | 0.000         | 0.000         | 0.093       | 0.093        | 2387              | 178.2        | 0.000         | 0.000         | 0.040       | 0.040        | 622               | 2466         | 0.000         | 0.000         | 0.495       | 0.495        | 105463            |
| 23                    | 399.3        | 0.000         | 0.000         | 0.097       | 0.097        | 3353              | 94.08        | 0.000         | 0.000         | 0.011       | 0.011        | 93                | 1484         | 0.000         | 0.000         | 0.350       | 0.350        | 44844             |
| 24                    | 447.5        | 0.000         | 0.000         | 0.104       | 0.104        | 4017              | 80.00        | 0.000         | 0.000         | 0.018       | 0.018        | 124               | 1217         | 0.000         | 0.000         | 0.227       | 0.227        | 23852             |
| 25                    | 309.1        | 0.000         | 0.000         | 0.093       | 0.093        | 2489              | 140.5        | 0.000         | 0.000         | 0.017       | 0.017        | 210               | 714.6        | 0.000         | 0.000         | 0.173       | 0.173        | 10670             |
| 26                    | 239.3        | 0.000         | 0.000         | 0.052       | 0.052        | 1075              | 266.5        | 0.000         | 0.000         | 0.022       | 0.022        | 509               | 809.5        | 0.000         | 0.000         | 0.185       | 0.185        | 12919             |
| 27                    | 491.6        | 0.000         | 0.000         | 0.096       | 0.096        | 4095              | 601.8        | 0.000         | 0.000         | 0.079       | 0.079        | 4082              | 720.8        | 0.000         | 0.000         | 0.167       | 0.167        | 10381             |
| 28                    | 204.1        | 0.000         | 0.000         | 0.091       | 0.091        | 1598              | 620.0        | 0.000         | 0.000         | 0.084       | 0.084        | 4489              | 495.5        | 0.000         | 0.000         | 0.106       | 0.106        | 4538              |
| 29                    | 142.1        | 0.000         | 0.000         | 0.067       | 0.067        | 819               | 466.8        | 0.000         | 0.000         | 0.053       | 0.053        | 2149              | 388.9        | 0.000         | 0.000         | 0.127       | 0.127        | 4264              |
| 30                    | 126.5        | 0.000         | 0.000         | 0.056       | 0.056        | 614               | 421.6        | 0.000         | 0.000         | 0.058       | 0.058        | 2120              | 383.2        | 0.000         | 0.000         | 0.118       | 0.118        | 3910              |
| 31                    |              |               |               |             |              |                   | 336.3        | 0.000         | 0.000         | 0.073       | 0.073        | 2121              |              |               |               |             |              |                   |
| <b>Ten Daily Mean</b> |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| <b>Ten Daily I</b>    | 372.7        | 0.000         | 0.000         | 0.151       | 0.151        | 7322              | 587.7        | 0.000         | 0.000         | 0.124       | 0.124        | 9429              | 196.2        | 0.000         | 0.000         | 0.028       | 0.028        | 496               |
| <b>Ten Daily II</b>   | 538.0        | 0.000         | 0.000         | 0.144       | 0.144        | 7511              | 641.1        | 0.000         | 0.000         | 0.133       | 0.133        | 8386              | 246.2        | 0.000         | 0.000         | 0.053       | 0.053        | 2098              |
| <b>Ten Daily III</b>  | 284.4        | 0.000         | 0.000         | 0.083       | 0.083        | 2173              | 312.9        | 0.000         | 0.000         | 0.047       | 0.047        | 1608              | 1007         | 0.000         | 0.000         | 0.223       | 0.223        | 25530             |
| <b>Monthly</b>        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| <b>Total</b>          |              |               |               |             |              | 170056            |              |               |               |             |              | 195846            |              |               |               |             |              | 281237            |

**Annual Sediment Load (Metric Tonnes) : 1403323**

**Daily Observed Sediment Datasheet for period : 2021-2022**

Station Name : Mantralayam ( AKL00F2)

Local River : Tungabhadra

Division : Lower Krishna Divn., Hyderabad

Sub-Division : Lower Tungabhadra SD, Kurnool

| Day            | Dec          |               |               |             |              |                   | Jan          |               |               |             |              |                   | Feb          |               |               |             |              |                   |
|----------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1              | 455.3        | 0.000         | 0.000         | 0.177       | 0.177        | 6972              | 34.28        | 0.000         | 0.000         | 0.011       | 0.011        | 33                | 80.57        | 0.000         | 0.000         | 0.028       | 0.028        | 196               |
| 2              | 392.0        | 0.000         | 0.000         | 0.152       | 0.152        | 5146              | 34.26        | 0.000         | 0.000         | 0.011       | 0.011        | 33                | 74.43        | 0.000         | 0.000         | 0.026       | 0.026        | 165               |
| 3              | 210.9        | 0.000         | 0.000         | 0.080       | 0.080        | 1450              | 32.78        | 0.000         | 0.000         | 0.017       | 0.017        | 48                | 74.09        | 0.000         | 0.000         | 0.026       | 0.026        | 164               |
| 4              | 282.5        | 0.000         | 0.000         | 0.108       | 0.108        | 2641              | 31.87        | 0.000         | 0.000         | 0.010       | 0.010        | 28                | 78.21        | 0.000         | 0.000         | 0.027       | 0.027        | 184               |
| 5              | 219.8        | 0.000         | 0.000         | 0.083       | 0.083        | 1579              | 32.68        | 0.000         | 0.000         | 0.011       | 0.011        | 30                | 71.03        | 0.000         | 0.000         | 0.024       | 0.024        | 150               |
| 6              | 193.2        | 0.000         | 0.000         | 0.068       | 0.068        | 1127              | 32.38        | 0.000         | 0.000         | 0.010       | 0.010        | 29                | 74.37        | 0.000         | 0.000         | 0.026       | 0.026        | 165               |
| 7              | 213.8        | 0.000         | 0.000         | 0.081       | 0.081        | 1492              | 29.06        | 0.000         | 0.000         | 0.009       | 0.009        | 24                | 65.15        | 0.000         | 0.000         | 0.010       | 0.010        | 55                |
| 8              | 205.5        | 0.000         | 0.000         | 0.077       | 0.077        | 1375              | 31.21        | 0.000         | 0.000         | 0.010       | 0.010        | 27                | 59.62        | 0.000         | 0.000         | 0.020       | 0.020        | 103               |
| 9              | 193.7        | 0.000         | 0.000         | 0.073       | 0.073        | 1218              | 31.21        | 0.000         | 0.000         | 0.010       | 0.010        | 27                | 44.28        | 0.000         | 0.000         | 0.014       | 0.014        | 55                |
| 10             | 179.4        | 0.000         | 0.000         | 0.067       | 0.067        | 1040              | 23.45        | 0.000         | 0.000         | 0.015       | 0.015        | 30                | 34.36        | 0.000         | 0.000         | 0.011       | 0.011        | 33                |
| 11             | 181.9        | 0.000         | 0.000         | 0.068       | 0.068        | 1069              | 23.21        | 0.000         | 0.000         | 0.008       | 0.008        | 16                | 26.77        | 0.000         | 0.000         | 0.009       | 0.009        | 20                |
| 12             | 117.6        | 0.000         | 0.000         | 0.043       | 0.043        | 433               | 21.31        | 0.000         | 0.000         | 0.007       | 0.007        | 14                | 27.56        | 0.000         | 0.000         | 0.009       | 0.009        | 21                |
| 13             | 103.6        | 0.000         | 0.000         | 0.042       | 0.042        | 378               | 20.38        | 0.000         | 0.000         | 0.007       | 0.007        | 13                | 24.95        | 0.000         | 0.000         | 0.008       | 0.008        | 18                |
| 14             | 152.7        | 0.000         | 0.000         | 0.056       | 0.056        | 745               | 21.55        | 0.000         | 0.000         | 0.007       | 0.007        | 14                | 21.23        | 0.000         | 0.000         | 0.008       | 0.008        | 14                |
| 15             | 132.8        | 0.000         | 0.000         | 0.049       | 0.049        | 557               | 14.38        | 0.000         | 0.000         | 0.007       | 0.007        | 8                 | 20.19        | 0.000         | 0.000         | 0.007       | 0.007        | 13                |
| 16             | 79.11        | 0.000         | 0.000         | 0.028       | 0.028        | 188               | 14.23        | 0.000         | 0.000         | 0.007       | 0.007        | 8                 | 20.41        | 0.000         | 0.000         | 0.007       | 0.007        | 13                |
| 17             | 68.30        | 0.000         | 0.000         | 0.023       | 0.023        | 138               | 13.97        | 0.000         | 0.000         | 0.010       | 0.010        | 12                | 69.83        | 0.000         | 0.000         | 0.024       | 0.024        | 145               |
| 18             | 62.43        | 0.000         | 0.000         | 0.021       | 0.021        | 114               | 13.27        | 0.000         | 0.000         | 0.007       | 0.007        | 8                 | 75.40        | 0.000         | 0.000         | 0.026       | 0.026        | 170               |
| 19             | 59.56        | 0.000         | 0.000         | 0.020       | 0.020        | 103               | 35.78        | 0.000         | 0.000         | 0.012       | 0.012        | 36                | 84.32        | 0.000         | 0.000         | 0.030       | 0.030        | 215               |
| 20             | 56.46        | 0.000         | 0.000         | 0.030       | 0.030        | 147               | 73.35        | 0.000         | 0.000         | 0.025       | 0.025        | 160               | 99.60        | 0.000         | 0.000         | 0.036       | 0.036        | 306               |
| 21             | 54.26        | 0.000         | 0.000         | 0.018       | 0.018        | 85                | 76.58        | 0.000         | 0.000         | 0.027       | 0.027        | 176               | 104.4        | 0.000         | 0.000         | 0.015       | 0.015        | 136               |
| 22             | 49.69        | 0.000         | 0.000         | 0.016       | 0.016        | 70                | 78.02        | 0.000         | 0.000         | 0.027       | 0.027        | 183               | 109.0        | 0.000         | 0.000         | 0.039       | 0.039        | 369               |
| 23             | 44.59        | 0.000         | 0.000         | 0.015       | 0.015        | 56                | 67.38        | 0.000         | 0.000         | 0.023       | 0.023        | 134               | 105.6        | 0.000         | 0.000         | 0.038       | 0.038        | 345               |
| 24             | 44.83        | 0.000         | 0.000         | 0.015       | 0.015        | 57                | 68.36        | 0.000         | 0.000         | 0.009       | 0.009        | 54                | 99.50        | 0.000         | 0.000         | 0.035       | 0.035        | 305               |
| 25             | 48.99        | 0.000         | 0.000         | 0.016       | 0.016        | 68                | 65.46        | 0.000         | 0.000         | 0.022       | 0.022        | 126               | 97.68        | 0.000         | 0.000         | 0.035       | 0.035        | 293               |
| 26             | 47.90        | 0.000         | 0.000         | 0.016       | 0.016        | 65                | 60.82        | 0.000         | 0.000         | 0.021       | 0.021        | 108               | 87.70        | 0.000         | 0.000         | 0.031       | 0.031        | 234               |
| 27             | 41.40        | 0.000         | 0.000         | 0.024       | 0.024        | 86                | 61.64        | 0.000         | 0.000         | 0.021       | 0.021        | 111               | 68.75        | 0.000         | 0.000         | 0.024       | 0.024        | 140               |
| 28             | 38.66        | 0.000         | 0.000         | 0.012       | 0.012        | 42                | 96.66        | 0.000         | 0.000         | 0.034       | 0.034        | 287               | 34.66        | 0.000         | 0.000         | 0.010       | 0.010        | 31                |
| 29             | 34.48        | 0.000         | 0.000         | 0.011       | 0.011        | 33                | 97.92        | 0.000         | 0.000         | 0.035       | 0.035        | 295               |              |               |               |             |              |                   |
| 30             | 30.62        | 0.000         | 0.000         | 0.010       | 0.010        | 26                | 104.8        | 0.000         | 0.000         | 0.038       | 0.038        | 340               |              |               |               |             |              |                   |
| 31             | 28.39        | 0.000         | 0.000         | 0.009       | 0.009        | 23                | 90.22        | 0.000         | 0.000         | 0.010       | 0.010        | 80                |              |               |               |             |              |                   |
| Ten Daily Mean |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Ten Daily I    | 254.6        | 0.000         | 0.000         | 0.097       | 0.097        | 2404              | 31.32        | 0.000         | 0.000         | 0.011       | 0.011        | 31                | 65.61        | 0.000         | 0.000         | 0.021       | 0.021        | 127               |
| Ten Daily II   | 101.4        | 0.000         | 0.000         | 0.038       | 0.038        | 387               | 25.14        | 0.000         | 0.000         | 0.010       | 0.010        | 29                | 47.03        | 0.000         | 0.000         | 0.016       | 0.016        | 93                |
| Ten Daily III  | 42.17        | 0.000         | 0.000         | 0.015       | 0.015        | 56                | 78.90        | 0.000         | 0.000         | 0.024       | 0.024        | 172               | 88.41        | 0.000         | 0.000         | 0.028       | 0.028        | 232               |
| Monthly        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Total          |              |               |               |             |              | 28522             |              |               |               |             |              | 2491              |              |               |               |             |              | 4059              |

Annual Sediment Load (Metric Tonnes) : 1403323

**Daily Observed Sediment Datasheet for period : 2021-2022**

Station Name : Mantralayam ( AKL00F2)

Local River : Tungabhadra

Division : Lower Krishna Divn., Hyderabad

Sub-Division : Lower Tungabhadra SD, Kurnool

| Day                   | Mar          |               |               |             |              |                   | Apr          |               |               |             |              |                   | May          |               |               |             |              |                   |
|-----------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                       | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1                     | 27.92        | 0.000         | 0.000         | 0.009       | 0.009        | 22                | 99.14        | 0.000         | 0.000         | 0.035       | 0.035        | 303               | 23.75        | 0.000         | 0.000         | 0.008       | 0.008        | 16                |
| 2                     | 27.36        | 0.000         | 0.000         | 0.009       | 0.009        | 21                | 80.44        | 0.000         | 0.000         | 0.028       | 0.028        | 195               | 16.34        | 0.000         | 0.000         | 0.009       | 0.009        | 12                |
| 3                     | 21.91        | 0.000         | 0.000         | 0.008       | 0.008        | 14                | 68.75        | 0.000         | 0.000         | 0.024       | 0.024        | 140               | 22.61        | 0.000         | 0.000         | 0.008       | 0.008        | 15                |
| 4                     | 20.84        | 0.000         | 0.000         | 0.007       | 0.007        | 13                | 43.91        | 0.000         | 0.000         | 0.010       | 0.010        | 38                | 16.14        | 0.000         | 0.000         | 0.007       | 0.007        | 9                 |
| 5                     | 20.60        | 0.000         | 0.000         | 0.007       | 0.007        | 13                | 42.75        | 0.000         | 0.000         | 0.014       | 0.014        | 51                | 15.90        | 0.000         | 0.000         | 0.007       | 0.007        | 9                 |
| 6                     | 24.34        | 0.000         | 0.000         | 0.008       | 0.008        | 17                | 32.91        | 0.000         | 0.000         | 0.011       | 0.011        | 30                | 12.61        | 0.000         | 0.000         | 0.007       | 0.007        | 7                 |
| 7                     | 86.70        | 0.000         | 0.000         | 0.011       | 0.011        | 80                | 31.10        | 0.000         | 0.000         | 0.010       | 0.010        | 27                | 12.66        | 0.000         | 0.000         | 0.007       | 0.007        | 7                 |
| 8                     | 94.58        | 0.000         | 0.000         | 0.034       | 0.034        | 274               | 27.47        | 0.000         | 0.000         | 0.009       | 0.009        | 21                | 12.15        | 0.000         | 0.000         | 0.007       | 0.007        | 7                 |
| 9                     | 83.01        | 0.000         | 0.000         | 0.029       | 0.029        | 208               | 32.00        | 0.000         | 0.000         | 0.010       | 0.010        | 28                | 11.62        | 0.000         | 0.000         | 0.009       | 0.009        | 9                 |
| 10                    | 78.04        | 0.000         | 0.000         | 0.027       | 0.027        | 183               | 44.73        | 0.000         | 0.000         | 0.015       | 0.015        | 57                | 11.47        | 0.000         | 0.000         | 0.007       | 0.007        | 7                 |
| 11                    | 59.02        | 0.000         | 0.000         | 0.020       | 0.020        | 101               | 58.49        | 0.000         | 0.000         | 0.014       | 0.014        | 68                | 10.60        | 0.000         | 0.000         | 0.007       | 0.007        | 7                 |
| 12                    | 47.90        | 0.000         | 0.000         | 0.016       | 0.016        | 65                | 65.68        | 0.000         | 0.000         | 0.022       | 0.022        | 127               | 11.35        | 0.000         | 0.000         | 0.007       | 0.007        | 7                 |
| 13                    | 60.82        | 0.000         | 0.000         | 0.021       | 0.021        | 108               | 74.85        | 0.000         | 0.000         | 0.026       | 0.026        | 167               | 10.18        | 0.000         | 0.000         | 0.007       | 0.007        | 7                 |
| 14                    | 46.36        | 0.000         | 0.000         | 0.011       | 0.011        | 43                | 72.94        | 0.000         | 0.000         | 0.025       | 0.025        | 159               | 10.11        | 0.000         | 0.000         | 0.008       | 0.008        | 7                 |
| 15                    | 43.50        | 0.000         | 0.000         | 0.014       | 0.014        | 53                | 77.28        | 0.000         | 0.000         | 0.027       | 0.027        | 179               | 10.10        | 0.000         | 0.000         | 0.008       | 0.008        | 7                 |
| 16                    | 33.70        | 0.000         | 0.000         | 0.011       | 0.011        | 32                | 63.07        | 0.000         | 0.000         | 0.021       | 0.021        | 117               | 10.10        | 0.000         | 0.000         | 0.008       | 0.008        | 7                 |
| 17                    | 31.72        | 0.000         | 0.000         | 0.010       | 0.010        | 28                | 53.52        | 0.000         | 0.000         | 0.018       | 0.018        | 82                | 8.688        | 0.000         | 0.000         | 0.008       | 0.008        | 6                 |
| 18                    | 37.94        | 0.000         | 0.000         | 0.012       | 0.012        | 40                | 46.33        | 0.000         | 0.000         | 0.013       | 0.013        | 51                | 7.824        | 0.000         | 0.000         | 0.009       | 0.009        | 6                 |
| 19                    | 30.50        | 0.000         | 0.000         | 0.010       | 0.010        | 26                | 34.50        | 0.000         | 0.000         | 0.011       | 0.011        | 33                | 7.611        | 0.000         | 0.000         | 0.009       | 0.009        | 6                 |
| 20                    | 36.16        | 0.000         | 0.000         | 0.012       | 0.012        | 36                | 32.07        | 0.000         | 0.000         | 0.010       | 0.010        | 29                | 20.26        | 0.000         | 0.000         | 0.007       | 0.007        | 13                |
| 21                    | 44.27        | 0.000         | 0.000         | 0.011       | 0.011        | 44                | 27.98        | 0.000         | 0.000         | 0.009       | 0.009        | 22                | 432.6        | 0.000         | 0.000         | 0.168       | 0.168        | 6285              |
| 22                    | 45.13        | 0.000         | 0.000         | 0.015       | 0.015        | 58                | 24.85        | 0.000         | 0.000         | 0.008       | 0.008        | 18                | 339.6        | 0.000         | 0.000         | 0.131       | 0.131        | 3845              |
| 23                    | 44.77        | 0.000         | 0.000         | 0.015       | 0.015        | 57                | 21.55        | 0.000         | 0.000         | 0.007       | 0.007        | 14                | 166.1        | 0.000         | 0.000         | 0.070       | 0.070        | 1006              |
| 24                    | 41.57        | 0.000         | 0.000         | 0.014       | 0.014        | 49                | 27.56        | 0.000         | 0.000         | 0.009       | 0.009        | 21                | 77.27        | 0.000         | 0.000         | 0.027       | 0.027        | 179               |
| 25                    | 21.43        | 0.000         | 0.000         | 0.007       | 0.007        | 14                | 20.83        | 0.000         | 0.000         | 0.010       | 0.010        | 18                | 75.76        | 0.000         | 0.000         | 0.026       | 0.026        | 172               |
| 26                    | 20.00        | 0.000         | 0.000         | 0.007       | 0.007        | 12                | 19.49        | 0.000         | 0.000         | 0.007       | 0.007        | 12                | 49.06        | 0.000         | 0.000         | 0.016       | 0.016        | 69                |
| 27                    | 83.32        | 0.000         | 0.000         | 0.029       | 0.029        | 210               | 18.78        | 0.000         | 0.000         | 0.007       | 0.007        | 11                | 46.00        | 0.000         | 0.000         | 0.015       | 0.015        | 60                |
| 28                    | 92.60        | 0.000         | 0.000         | 0.014       | 0.014        | 110               | 19.61        | 0.000         | 0.000         | 0.007       | 0.007        | 12                | 42.86        | 0.000         | 0.000         | 0.014       | 0.014        | 52                |
| 29                    | 108.8        | 0.000         | 0.000         | 0.039       | 0.039        | 368               | 19.02        | 0.000         | 0.000         | 0.007       | 0.007        | 11                | 39.80        | 0.000         | 0.000         | 0.013       | 0.013        | 44                |
| 30                    | 87.35        | 0.000         | 0.000         | 0.031       | 0.031        | 232               | 19.85        | 0.000         | 0.000         | 0.007       | 0.007        | 12                | 29.13        | 0.000         | 0.000         | 0.019       | 0.019        | 48                |
| 31                    | 82.88        | 0.000         | 0.000         | 0.029       | 0.029        | 208               |              |               |               |             |              |                   | 28.54        | 0.000         | 0.000         | 0.009       | 0.009        | 23                |
| <b>Ten Daily Mean</b> |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| <b>Ten Daily I</b>    | 48.53        | 0.000         | 0.000         | 0.015       | 0.015        | 85                | 50.32        | 0.000         | 0.000         | 0.017       | 0.017        | 89                | 15.52        | 0.000         | 0.000         | 0.007       | 0.007        | 10                |
| <b>Ten Daily II</b>   | 42.76        | 0.000         | 0.000         | 0.014       | 0.014        | 53                | 57.87        | 0.000         | 0.000         | 0.019       | 0.019        | 101               | 10.68        | 0.000         | 0.000         | 0.008       | 0.008        | 7                 |
| <b>Ten Daily III</b>  | 61.10        | 0.000         | 0.000         | 0.019       | 0.019        | 124               | 21.95        | 0.000         | 0.000         | 0.008       | 0.008        | 15                | 120.6        | 0.000         | 0.000         | 0.046       | 0.046        | 1071              |
| <b>Monthly</b>        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| <b>Total</b>          |              |               |               |             |              | 2738              |              |               |               |             |              | 2054              |              |               |               |             |              | 11952             |

Annual Sediment Load (Metric Tonnes) : 1403323

**Annual Sediment Load for period : 1977-2022**

**Station Name : Mantralayam ( AKL00F2)**

**Division : Lower Krishna Divn., Hyderabad**

**Local River : Tungabhadra**

**Sub-Division : Lower Tungabhadra SD, Kurnool**

| Year      | Monsoon<br>(M.T.) | Non-Monsoon<br>(M.T.) | Annual Load<br>(M.T.) | Annual Run Off<br>(MCM) |
|-----------|-------------------|-----------------------|-----------------------|-------------------------|
| 1977-1978 | 2639543           | 36197                 | 2675740               | 5113                    |
| 1978-1979 | 8049458           | 20933                 | 8070392               | 14152                   |
| 1979-1980 | 4505529           | 36421                 | 4541950               | 5799                    |
| 1980-1981 | 4020182           | 35757                 | 4055939               | 11730                   |
| 1981-1982 | 8077625           | 39559                 | 8117185               | 9441                    |
| 1982-1983 | 3621183           | 32621                 | 3653803               | 6943                    |
| 1983-1984 | 2853236           | 25977                 | 2879213               | 6141                    |
| 1984-1985 | 1937036           | 17936                 | 1954973               | 5445                    |
| 1985-1986 | 767446            | 15019                 | 782466                | 2465                    |
| 1986-1987 | 3703549           | 27501                 | 3731050               | 3618                    |
| 1987-1988 | 6947247           | 20808                 | 6968055               | 3244                    |
| 1988-1989 | 3752510           | 11213                 | 3763723               | 5388                    |
| 1989-1990 | 2515915           | 23194                 | 2539109               | 3722                    |
| 1990-1991 | 2005688           | 25187                 | 2030875               | 6429                    |
| 1991-1992 | 2593220           | 33485                 | 2626705               | 8476                    |
| 1992-1993 | 2519352           | 39191                 | 2558542               | 10977                   |
| 1993-1994 | 3618682           | 52985                 | 3671667               | 6904                    |
| 1994-1995 | 2903943           | 25287                 | 2929230               | 11387                   |
| 1995-1996 | 1198399           | 20011                 | 1218410               | 2523                    |
| 1996-1997 | 4473898           | 16924                 | 4490823               | 6013                    |
| 1997-1998 | 585726            | 25329                 | 611055                | 5713                    |
| 1998-1999 | 3992121           | 22394                 | 4014515               | 8447                    |
| 1999-2000 | 1391024           | 34580                 | 1425604               | 6696                    |
| 2000-2001 | 1587134           | 19138                 | 1606272               | 6275                    |
| 2001-2002 | 1790071           | 27966                 | 1818037               | 4029                    |
| 2002-2003 | 335420            | 9906                  | 345327                | 1200                    |
| 2003-2004 | 103714            | 11289                 | 115004                | 1210                    |
| 2004-2005 | 851476            | 10389                 | 861865                | 2513                    |
| 2005-2006 | 4936309           | 13407                 | 4949716               | 7625                    |
| 2006-2007 | 0                 | 0                     | 0                     | 5441                    |
| 2007-2008 | 0                 | 0                     | 0                     | 12812                   |
| 2008-2009 | 0                 | 0                     | 0                     | 6185                    |
| 2009-2010 | 0                 | 0                     | 0                     | 12284                   |
| 2010-2011 | 0                 | 0                     | 0                     | 7674                    |
| 2011-2012 | 0                 | 0                     | 0                     | 4548                    |
| 2012-2013 | 0                 | 0                     | 0                     | 1953                    |
| 2013-2014 | 45686             | 5874                  | 51561                 | 8077                    |
| 2014-2015 | 1063840           | 39927                 | 1103767               | 7481                    |
| 2015-2016 | 564866            | 8600                  | 573466                | 1723                    |
| 2016-2017 | 99439             | 32                    | 99471                 | 519                     |
| 2017-2018 | 384035            | 6427                  | 390462                | 1776                    |
| 2018-2019 | 488993            | 1246                  | 490240                | 5630                    |
| 2019-2020 | 1682219           | 1349                  | 1683568               | 7929                    |
| 2020-2021 | 1365154           | 33000                 | 1398154               | 6233                    |
| 2021-2022 | 1351507           | 51815                 | 1403323               | 7121                    |

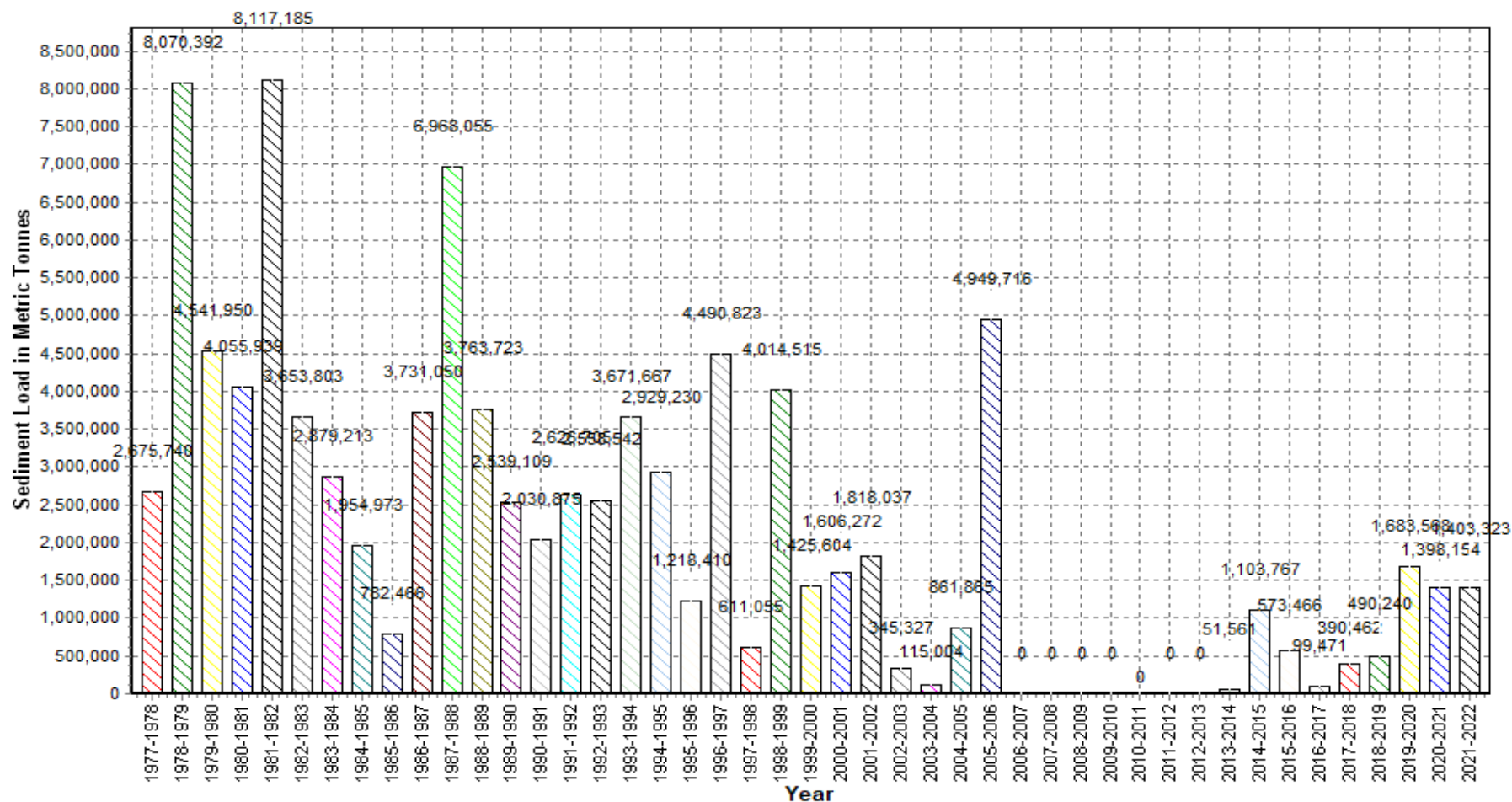
# Annual Sediment Load for the period: 1977-2022

Station Name : Mantralayam ( AKL00F2)

Local River : Tungabhadra

Division : Lower Krishna Divn., Hyderabad

Sub-Division : Lower Tungabhadra SD, Kurnool



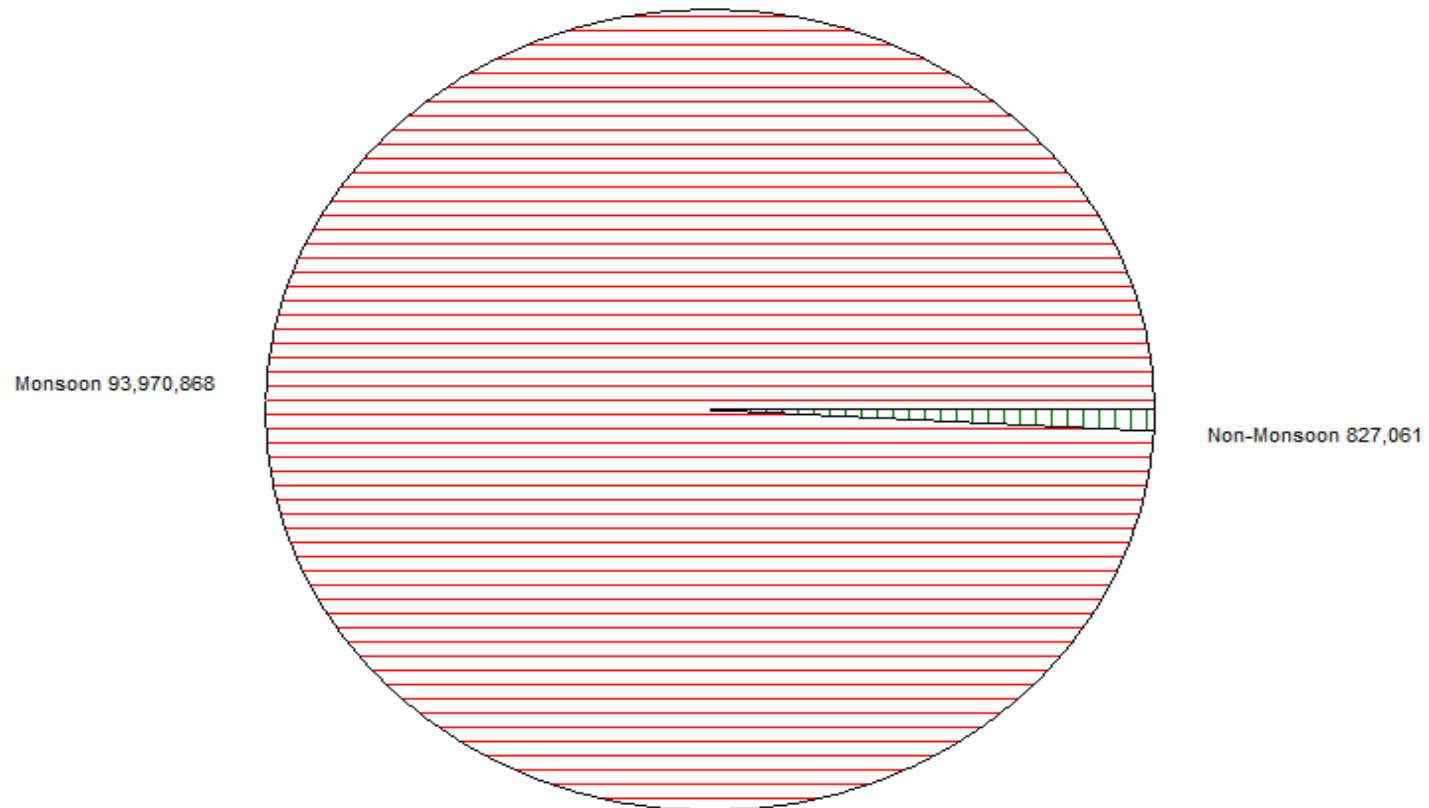
Seasonal Sediment Load for the period : 1977-2021

Station Name : Mantralayam ( AKL00F2)

Local River : Tungabhadra

Division : Lower Krishna Divn., Hyderabad

Sub-Division : Lower Tungabhadra SD, Kurnool



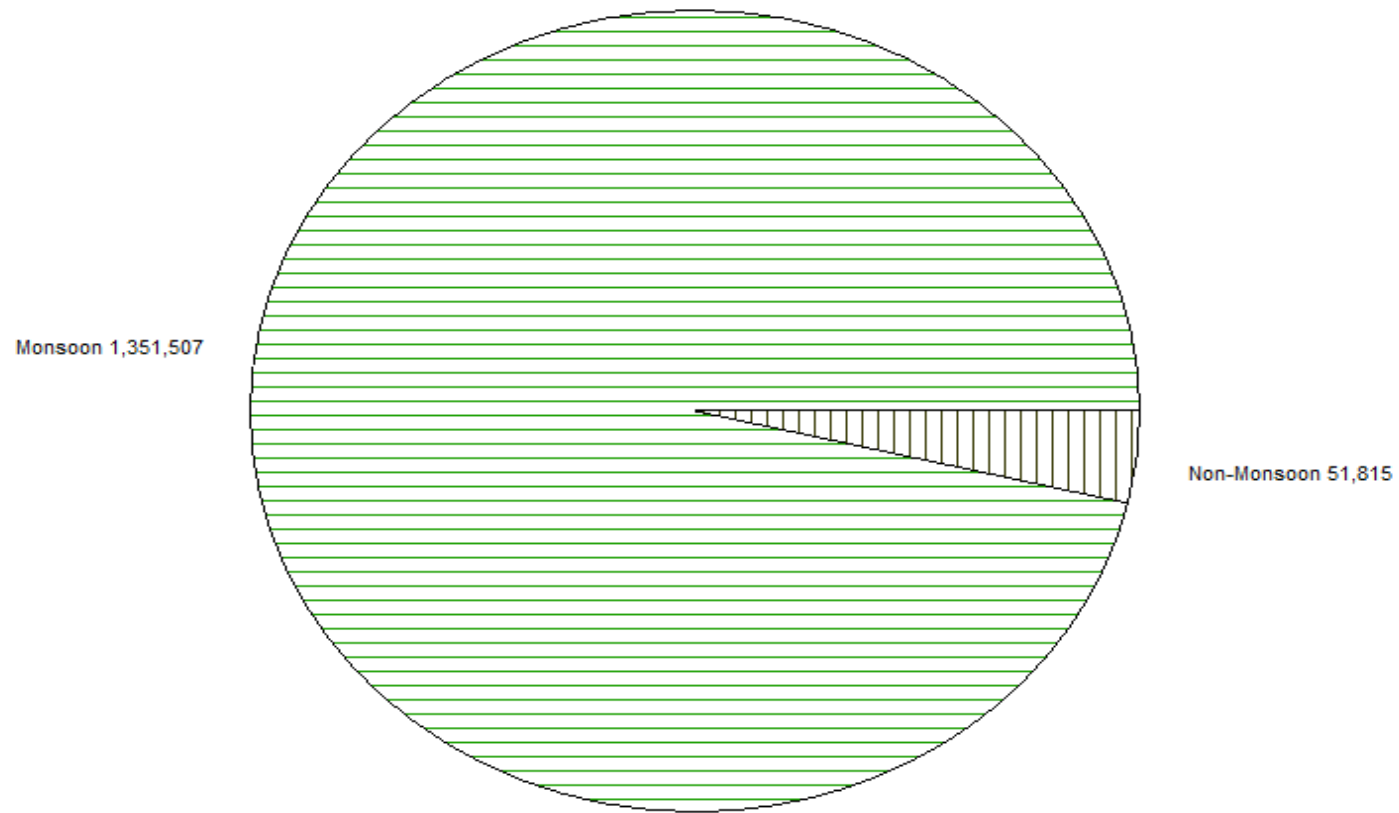
Seasonal Sediment Load for the Year: 2021-2022

Station Name : Mantralayam ( AKL00F2)

Local River : Tungabhadra

Division : Lower Krishna Divn., Hyderabad

Sub-Division : Lower Tungabhadra SD, Kurnool



**BED MATERIAL ANALYSIS DATA FOR THE YEAR 2021-22**

SITE : TUNGABHADRA AT MANTRALAYAM CODE : AKL00F2  
 MEASURING : LKDN CROSS SECTION : Station gauge line  
 AUTHORITY

**Premonsoon Survey ( Date 22-05-2021 )**

Discharge Observed : 14.05 cumec Water edge RB 280.00 m LB : 558.00 m  
 Area of section : 184.38 sq.m MeanVelocit : 0.0762 m/sec  
 Wetted perimeter : 278.03 Hydraulic Mean Depth : 0.6632 m

| Sl. No | R.D.of sampling point in meters | R.L. of bed in meters | Mean diameter in mm | Remarks               |
|--------|---------------------------------|-----------------------|---------------------|-----------------------|
| 1      | 120                             | 307.880               | 0.55                |                       |
| 2      | 220                             | 306.880               | 0.50                | Av.mean               |
| 3      | 320                             | 305.910               | 0.53                | dia "m" = <b>0.51</b> |
| 4      | 420                             | 305.160               | 0.49                | Silt factor           |
| 5      | 520                             | 306.030               | 0.47                | "f" =1.76 $\sqrt{m}$  |
| 6      | 620                             | 307.735               | 0.52                | = <b>1.26</b>         |

**Note :** i. Discharge observation was at station gauge line.  
 ii. River bed : Flowing water.

**Monsoon Survey ( Date 12-10-2021 )**

Discharge Observed : 94 cumec Water edge RB 590.00 m LB : 238.00 m  
 Area of section : 424.69 sq.m MeanVelocit : 0.2213 m/sec  
 Wetted perimeter : 352.07 Hydraulic Mean Depth : 1.2063 m

| Sl. No | R.D.of sampling point in meters | R.L. of bed in meters | Mean diameter in mm | Remarks               |
|--------|---------------------------------|-----------------------|---------------------|-----------------------|
| 1      | 120                             | 308.065               | 0.38                |                       |
| 2      | 220                             | 307.005               | 0.43                | Av.mean               |
| 3      | 320                             | 306.110               | 0.32                | dia "m" = <b>0.49</b> |
| 4      | 420                             | 304.730               | 0.36                | Silt factor           |
| 5      | 520                             | 305.840               | 0.34                | "f" =1.76 $\sqrt{m}$  |
| 6      | 620                             | 307.570               | 1.13                | = <b>1.24</b>         |

**Note :** i. Discharge observation was at station gauge line.  
 ii. River bed : Flowing water.

**Postmonsoon Survey ( Date 16-12-2021 )**

Discharge Observed : 79.09 cumec Water edge RB 600.00 m LB : 235.00 m  
 Area of section : 416.95 sq.m MeanVelocit : 0.1897 m/sec  
 Wetted perimeter : 365.05 Hydraulic Mean Depth : 1.1422 m

| Sl. No | R.D.of sampling point in meters | R.L. of bed in meters | Mean diameter in mm | Remarks               |
|--------|---------------------------------|-----------------------|---------------------|-----------------------|
| 1      | 120                             | 308.035               | 0.31                |                       |
| 2      | 220                             | 307.040               | 0.31                | Av.mean               |
| 3      | 320                             | 305.400               | 0.36                | dia "m" = <b>0.34</b> |
| 4      | 420                             | 305.130               | 0.27                | Silt factor           |
| 5      | 520                             | 306.010               | 0.34                | "f" =1.76 $\sqrt{m}$  |
| 6      | 620                             | 307.530               | 0.43                | = <b>1.02</b>         |

**Note :** i. Discharge observation was at station gauge line.  
 ii. River bed : Flowing water.



## HISTORY SHEET

|                          |                                  |                   |                                 |
|--------------------------|----------------------------------|-------------------|---------------------------------|
|                          |                                  | <b>Water Year</b> | <b>: 2021-2022</b>              |
| <b>Site</b>              | <b>: Bawapuram</b>               | <b>Code</b>       | <b>: AKL00B8</b>                |
| State                    | : Andhra Pradesh                 | District          | Kurnool                         |
| Basin                    | : Krishna                        | Independent River | : Krishna                       |
| Tributary                | : Tungabhadra                    | Sub Tributary     | : -                             |
| Sub-Sub Tributary        | : -                              | Local River       | : Tungabhadra                   |
| Division                 | : Lower Krishna Divn., Hyderabad | Sub-Division      | : Lower Tungabhadra SD, Kurnool |
| Drainage Area            | : 67180 Sq. Km.                  | Bank              | : Right                         |
| Latitude                 | : 15°52'57"                      | Longitude         | : 77°57'26"                     |
| <b>Zero of Gauge (m)</b> | : 271.825 (m.s.l)                | 14-03-1964        | - 31-05-1969                    |
|                          | : 270.485 (m.s.l)                | 01-06-1969        | - 31-12-1972                    |
|                          | : 270.245 (m.s.l)                | 01-01-1973        | - 30-04-2019                    |
|                          | : 270.245 (m.s.l)                | 01-05-2019        | -                               |
|                          | Opening Date                     | Closing Date      |                                 |
| Gauge                    | : 14-03-1964                     |                   |                                 |
| Discharge                | : 01-04-1964                     |                   |                                 |
| Sediment                 | : 01-06-1965                     |                   |                                 |
| Water Quality            | : 01-01-1972                     |                   |                                 |

**Daily Observed Sediment Datasheet for period : 2021-2022**

**Station Name : Bawapuram ( AKL00B8)**

**Local River : Tungabhadra**

**Division : Lower Krishna Divn., Hyderabad**

**Sub-Division : Lower Tungabhadra SD, Kurnool**

| Day                   | Jun          |               |               |             |              |                   | Jul          |               |               |             |              |                   | Aug          |               |               |             |              |                   |
|-----------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                       | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1                     | 1.218        | 0.000         | 0.000         | 0.020       | 0.020        | 2                 | 13.45        | 0.000         | 0.000         | 0.042       | 0.042        | 49                | 770.8        | 0.000         | 0.000         | 0.084       | 0.084        | 5593              |
| 2                     | 8.245        | 0.000         | 0.000         | 0.017       | 0.017        | 12                | 190.0        | 0.000         | 0.000         | 0.041       | 0.041        | 676               | 1353         | 0.000         | 0.000         | 0.048       | 0.028        | 3321              |
| 3                     | 11.41        | 0.000         | 0.000         | 0.013       | 0.013        | 13                | 199.8        | 0.000         | 0.000         | 0.041       | 0.041        | 710               | 739.9        | 0.000         | 0.000         | 0.029       | 0.029        | 1854              |
| 4                     | 8.234        | 0.000         | 0.000         | 0.036       | 0.036        | 26                | 9.451        | 0.000         | 0.000         | 0.070       | 0.070        | 57                | 843.6        | 0.000         | 0.000         | 0.082       | 0.082        | 5955              |
| 5                     | 12.20        | 0.000         | 0.000         | 0.012       | 0.012        | 13                | 9.111        | 0.000         | 0.000         | 0.038       | 0.038        | 30                | 402.7        | 0.000         | 0.000         | 0.056       | 0.056        | 1959              |
| 6                     | 2.790        | 0.000         | 0.000         | 0.143       | 0.143        | 34                | 212.1        | 0.000         | 0.000         | 0.041       | 0.041        | 751               | 232.2        | 0.000         | 0.000         | 0.051       | 0.051        | 1025              |
| 7                     | 2.584        | 0.000         | 0.000         | 0.023       | 0.023        | 5                 | 13.40        | 0.000         | 0.000         | 0.081       | 0.081        | 93                | 620.6        | 0.000         | 0.000         | 0.065       | 0.065        | 3475              |
| 8                     | 11.89        | 0.000         | 0.000         | 0.027       | 0.027        | 27                | 5.570        | 0.000         | 0.000         | 0.046       | 0.046        | 22                | 1531         | 0.000         | 0.000         | 0.096       | 0.096        | 12713             |
| 9                     | 3.715        | 0.000         | 0.000         | 0.027       | 0.027        | 9                 | 188.7        | 0.000         | 0.000         | 0.041       | 0.041        | 672               | 1202         | 0.000         | 0.000         | 0.061       | 0.061        | 6293              |
| 10                    | 36.05        | 0.000         | 0.000         | 0.021       | 0.021        | 64                | 13.47        | 0.000         | 0.000         | 0.081       | 0.081        | 95                | 1405         | 0.000         | 0.000         | 0.106       | 0.106        | 12907             |
| 11                    | 6.569        | 0.000         | 0.000         | 0.040       | 0.040        | 23                | 3.250        | 0.000         | 0.000         | 0.128       | 0.128        | 36                | 1842         | 0.000         | 0.000         | 0.106       | 0.106        | 16837             |
| 12                    | 35.43        | 0.000         | 0.000         | 0.036       | 0.036        | 110               | 8.855        | 0.000         | 0.000         | 0.059       | 0.059        | 45                | 840.8        | 0.000         | 0.000         | 0.095       | 0.095        | 6879              |
| 13                    | 20.43        | 0.000         | 0.000         | 0.054       | 0.054        | 95                | 49.36        | 0.000         | 0.000         | 0.044       | 0.044        | 189               | 574.4        | 0.000         | 0.000         | 0.063       | 0.063        | 3137              |
| 14                    | 35.49        | 0.000         | 0.000         | 0.063       | 0.063        | 193               | 9.111        | 0.000         | 0.000         | 0.057       | 0.057        | 45                | 383.9        | 0.000         | 0.000         | 0.064       | 0.064        | 2106              |
| 15                    | 7.389        | 0.000         | 0.000         | 0.045       | 0.045        | 29                | 234.1        | 0.000         | 0.000         | 0.055       | 0.055        | 1102              | 5.942        | 0.000         | 0.000         | 0.017       | 0.017        | 9                 |
| 16                    | 2.230        | 0.000         | 0.000         | 0.065       | 0.065        | 13                | 12.18        | 0.000         | 0.000         | 0.038       | 0.038        | 40                | 350.1        | 0.000         | 0.000         | 0.041       | 0.041        | 1243              |
| 17                    | 2.212        | 0.000         | 0.000         | 0.021       | 0.021        | 4                 | 6.341        | 0.000         | 0.000         | 0.067       | 0.067        | 37                | 258.2        | 0.000         | 0.000         | 0.036       | 0.036        | 803               |
| 18                    | 11.98        | 0.000         | 0.000         | 0.024       | 0.024        | 25                | 20.43        | 0.000         | 0.000         | 0.054       | 0.054        | 95                | 331.3        | 0.000         | 0.000         | 0.021       | 0.021        | 590               |
| 19                    | 3.682        | 0.000         | 0.000         | 0.107       | 0.107        | 34                | 9.062        | 0.000         | 0.000         | 0.048       | 0.048        | 38                | 317.4        | 0.000         | 0.000         | 0.055       | 0.055        | 1511              |
| 20                    | 20.43        | 0.000         | 0.000         | 0.054       | 0.054        | 95                | 4.434        | 0.000         | 0.000         | 0.093       | 0.093        | 36                | 292.0        | 0.000         | 0.000         | 0.044       | 0.044        | 1108              |
| 21                    | 5.185        | 0.000         | 0.000         | 0.079       | 0.079        | 36                | 2.219        | 0.000         | 0.000         | 0.169       | 0.169        | 32                | 331.7        | 0.000         | 0.000         | 0.027       | 0.027        | 771               |
| 22                    | 1.992        | 0.000         | 0.000         | 0.055       | 0.055        | 9                 | 5.500        | 0.000         | 0.000         | 0.067       | 0.067        | 32                | 292.0        | 0.000         | 0.000         | 0.044       | 0.044        | 1108              |
| 23                    | 1.355        | 0.000         | 0.000         | 0.063       | 0.063        | 7                 | 286.8        | 0.000         | 0.000         | 0.055       | 0.055        | 1363              | 365.4        | 0.000         | 0.000         | 0.036       | 0.036        | 1121              |
| 24                    | 0.969        | 0.000         | 0.000         | 0.033       | 0.033        | 3                 | 24.76        | 0.000         | 0.000         | 0.013       | 0.013        | 28                | 409.5        | 0.000         | 0.000         | 0.038       | 0.038        | 1352              |
| 25                    | 0.846        | 0.000         | 0.000         | 0.076       | 0.076        | 6                 | 11.98        | 0.000         | 0.000         | 0.064       | 0.064        | 66                | 427.8        | 0.000         | 0.000         | 0.056       | 0.056        | 2077              |
| 26                    | 0.964        | 0.000         | 0.000         | 0.073       | 0.073        | 6                 | 19.53        | 0.000         | 0.000         | 0.107       | 0.107        | 180               | 347.3        | 0.000         | 0.000         | 0.038       | 0.038        | 1128              |
| 27                    | 1.025        | 0.000         | 0.000         | 0.320       | 0.320        | 28                | 279.0        | 0.000         | 0.000         | 0.114       | 0.114        | 2738              | 311.6        | 0.000         | 0.000         | 0.067       | 0.067        | 1796              |
| 28                    | 790.7        | 0.000         | 0.000         | 0.152       | 0.035        | 2405              | 2940         | 0.000         | 0.000         | 0.102       | 0.102        | 25916             | 294.1        | 0.000         | 0.000         | 0.036       | 0.036        | 925               |
| 29                    | 27.55        | 0.000         | 0.000         | 0.079       | 0.079        | 188               | 1715         | 0.000         | 0.000         | 0.079       | 0.079        | 11724             | 319.1        |               |               | 0.049       | 0.049        | 1361              |
| 30                    | 268.1        | 0.000         | 0.000         | 0.057       | 0.057        | 1323              | 1319         | 0.000         | 0.000         | 0.040       | 0.040        | 4569              | 367.3        | 0.000         | 0.000         | 0.028       | 0.028        | 873               |
| 31                    |              |               |               |             |              |                   | 2438         |               |               | 0.101       | 0.101        | 21214             | 343.4        | 0.000         | 0.000         | 0.035       | 0.035        | 1050              |
| <b>Ten Daily Mean</b> |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| <b>Ten Daily I</b>    | 9.832        | 0.000         | 0.000         | 0.034       | 0.034        | 21                | 85.50        | 0.000         | 0.000         | 0.052       | 0.052        | 316               | 910.1        | 0.000         | 0.000         | 0.068       | 0.066        | 5509              |
| <b>Ten Daily II</b>   | 14.58        | 0.000         | 0.000         | 0.051       | 0.051        | 62                | 35.71        | 0.000         | 0.000         | 0.064       | 0.064        | 166               | 519.6        | 0.000         | 0.000         | 0.054       | 0.054        | 3422              |
| <b>Ten Daily III</b>  | 109.9        | 0.000         | 0.000         | 0.099       | 0.087        | 401               | 822.1        | 0.000         | 0.000         | 0.083       | 0.083        | 6169              | 346.3        | 0.000         | 0.000         | 0.041       | 0.041        | 1233              |
| <b>Monthly</b>        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| <b>Total</b>          |              |               |               |             |              | 4836              |              |               |               |             |              | 72679             |              |               |               |             |              | 102879            |

**Annual Sediment Load (Metric Tonnes) : 772806**

**Daily Observed Sediment Datasheet for period : 2021-2022**

**Station Name : Bawapuram ( AKL00B8)**

**Local River : Tungabhadra**

**Division : Lower Krishna Divn., Hyderabad**

**Sub-Division : Lower Tungabhadra SD, Kurnool**

| Day                   | Sep          |               |               |             |              |                   | Oct          |               |               |             |              |                   | Nov          |               |               |             |              |                   |
|-----------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                       | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1                     | 268.6        | 0.000         | 0.000         | 0.029       | 0.029        | 680               | 114.0        | 0.000         | 0.000         | 0.034       | 0.034        | 334               | 187.9        | 0.000         | 0.000         | 0.040       | 0.040        | 641               |
| 2                     | 240.5        | 0.000         | 0.000         | 0.054       | 0.054        | 1124              | 5.942        | 0.000         | 0.000         | 0.017       | 0.017        | 9                 | 250.5        | 0.000         | 0.000         | 0.037       | 0.037        | 805               |
| 3                     | 84.36        | 0.000         | 0.000         | 0.040       | 0.040        | 293               | 52.39        | 0.000         | 0.000         | 0.031       | 0.031        | 141               | 247.9        | 0.000         | 0.000         | 0.040       | 0.040        | 857               |
| 4                     | 30.09        | 0.000         | 0.000         | 0.108       | 0.108        | 281               | 131.3        | 0.000         | 0.000         | 0.024       | 0.024        | 272               | 114.3        | 0.000         | 0.000         | 0.039       | 0.039        | 380               |
| 5                     | 232.2        | 0.000         | 0.000         | 0.027       | 0.027        | 547               | 214.0        | 0.000         | 0.000         | 0.025       | 0.025        | 468               | 233.6        | 0.000         | 0.000         | 0.036       | 0.036        | 733               |
| 6                     | 212.0        | 0.000         | 0.000         | 0.040       | 0.040        | 733               | 91.84        | 0.000         | 0.000         | 0.048       | 0.048        | 379               | 13.19        | 0.000         | 0.000         | 0.037       | 0.037        | 42                |
| 7                     | 497.1        | 0.000         | 0.000         | 0.028       | 0.028        | 1194              | 714.8        | 0.000         | 0.000         | 0.076       | 0.076        | 4663              | 114.3        | 0.000         | 0.000         | 0.039       | 0.039        | 380               |
| 8                     | 1028         | 0.000         | 0.000         | 0.150       | 0.150        | 13336             | 600.3        | 0.000         | 0.000         | 0.038       | 0.038        | 1945              | 194.1        | 0.000         | 0.000         | 0.056       | 0.056        | 946               |
| 9                     | 472.8        | 0.000         | 0.000         | 0.119       | 0.119        | 4865              | 1034         | 0.000         | 0.000         | 0.063       | 0.070        | 6281              | 111.2        | 0.000         | 0.000         | 0.019       | 0.019        | 183               |
| 10                    | 385.4        | 0.000         | 0.000         | 0.060       | 0.060        | 1983              | 1375         | 0.000         | 0.000         | 0.076       | 0.076        | 9035              | 39.86        | 0.000         | 0.000         | 0.024       | 0.024        | 83                |
| 11                    | 240.5        | 0.000         | 0.000         | 0.030       | 0.030        | 625               | 1226         | 0.000         | 0.000         | 0.070       | 0.130        | 13790             | 110.8        | 0.000         | 0.000         | 0.034       | 0.034        | 325               |
| 12                    | 257.3        | 0.000         | 0.000         | 0.035       | 0.035        | 782               | 662.8        | 0.000         | 0.000         | 0.079       | 0.079        | 4542              | 17.55        | 0.000         | 0.000         | 0.058       | 0.058        | 87                |
| 13                    | 376.5        | 0.000         | 0.000         | 0.052       | 0.052        | 1682              | 527.9        | 0.000         | 0.000         | 0.058       | 0.058        | 2664              | 46.56        | 0.000         | 0.000         | 0.030       | 0.030        | 121               |
| 14                    | 580.7        | 0.000         | 0.000         | 0.089       | 0.089        | 4485              | 396.0        | 0.000         | 0.000         | 0.054       | 0.054        | 1851              | 79.81        | 0.000         | 0.000         | 0.035       | 0.035        | 241               |
| 15                    | 423.4        | 0.000         | 0.000         | 0.057       | 0.057        | 2100              | 609.1        | 0.000         | 0.000         | 0.061       | 0.061        | 3203              | 118.0        | 0.000         | 0.000         | 0.060       | 0.060        | 614               |
| 16                    | 412.4        | 0.000         | 0.000         | 0.042       | 0.042        | 1507              | 632.2        | 0.000         | 0.000         | 0.061       | 0.061        | 3358              | 135.8        | 0.000         | 0.000         | 0.031       | 0.031        | 359               |
| 17                    | 935.8        | 0.000         | 0.000         | 0.118       | 0.118        | 9532              | 879.3        | 0.000         | 0.000         | 0.057       | 0.067        | 5111              | 174.7        | 0.000         | 0.000         | 0.046       | 0.046        | 699               |
| 18                    | 945.9        | 0.000         | 0.000         | 0.091       | 0.091        | 7470              | 655.6        | 0.000         | 0.000         | 0.062       | 0.062        | 3517              | 194.7        | 0.000         | 0.000         | 0.055       | 0.055        | 924               |
| 19                    | 519.7        | 0.000         | 0.000         | 0.072       | 0.072        | 3241              | 482.2        | 0.000         | 0.000         | 0.057       | 0.057        | 2379              | 247.8        | 0.000         | 0.000         | 0.048       | 0.048        | 1019              |
| 20                    | 435.4        | 0.000         | 0.000         | 0.042       | 0.042        | 1561              | 305.9        | 0.000         | 0.000         | 0.029       | 0.029        | 759               | 512.8        | 0.000         | 0.000         | 0.092       | 0.092        | 4085              |
| 21                    | 244.6        | 0.000         | 0.000         | 0.026       | 0.026        | 550               | 248.5        | 0.000         | 0.000         | 0.033       | 0.033        | 713               | 1844         | 0.000         | 0.000         | 0.172       | 0.082        | 13121             |
| 22                    | 419.4        | 0.000         | 0.000         | 0.049       | 0.049        | 1779              | 90.43        | 0.000         | 0.000         | 0.048       | 0.048        | 375               | 4289         | 0.000         | 0.000         | 0.743       | 0.743        | 275215            |
| 23                    | 319.6        | 0.000         | 0.000         | 0.041       | 0.041        | 1124              | 91.28        | 0.000         | 0.000         | 0.047       | 0.047        | 368               | 2880         | 0.000         | 0.000         | 0.365       | 0.365        | 90933             |
| 24                    | 370.6        | 0.000         | 0.000         | 0.018       | 0.018        | 570               | 4.840        | 0.000         | 0.000         | 0.016       | 0.016        | 7                 | 1396         | 0.000         | 0.000         | 0.163       | 0.163        | 19666             |
| 25                    | 339.4        | 0.000         | 0.000         | 0.081       | 0.081        | 2378              | 9.894        | 0.000         | 0.000         | 0.033       | 0.033        | 28                | 746.0        | 0.000         | 0.000         | 0.090       | 0.090        | 5781              |
| 26                    | 292.0        | 0.000         | 0.000         | 0.044       | 0.044        | 1108              | 116.1        | 0.000         | 0.000         | 0.027       | 0.027        | 273               | 800.1        | 0.000         | 0.000         | 0.053       | 0.053        | 3664              |
| 27                    | 227.1        | 0.000         | 0.000         | 0.036       | 0.036        | 704               | 670.4        | 0.000         | 0.000         | 0.049       | 0.035        | 2027              | 572.9        | 0.000         | 0.000         | 0.055       | 0.055        | 2732              |
| 28                    | 318.9        | 0.000         | 0.000         | 0.042       | 0.042        | 1163              | 730.7        | 0.000         | 0.000         | 0.058       | 0.018        | 1143              | 627.2        | 0.000         | 0.000         | 0.061       | 0.061        | 3324              |
| 29                    | 95.09        | 0.000         | 0.000         | 0.054       | 0.054        | 440               | 453.8        | 0.000         | 0.000         | 0.029       | 0.029        | 1129              | 459.7        | 0.000         | 0.000         | 0.054       | 0.054        | 2141              |
| 30                    | 109.5        | 0.000         | 0.000         | 0.053       | 0.053        | 502               | 366.5        | 0.000         | 0.000         | 0.041       | 0.041        | 1286              | 415.2        | 0.000         | 0.000         | 0.045       | 0.045        | 1604              |
| 31                    |              |               |               |             |              |                   | 375.7        | 0.000         | 0.000         | 0.053       | 0.053        | 1731              |              |               |               |             |              |                   |
| <b>Ten Daily Mean</b> |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| <b>Ten Daily I</b>    | 345.1        | 0.000         | 0.000         | 0.066       | 0.066        | 2504              | 433.4        | 0.000         | 0.000         | 0.043       | 0.044        | 2353              | 150.7        | 0.000         | 0.000         | 0.037       | 0.037        | 505               |
| <b>Ten Daily II</b>   | 512.7        | 0.000         | 0.000         | 0.063       | 0.063        | 3298              | 637.7        | 0.000         | 0.000         | 0.059       | 0.066        | 4117              | 163.8        | 0.000         | 0.000         | 0.049       | 0.049        | 847               |
| <b>Ten Daily III</b>  | 273.6        | 0.000         | 0.000         | 0.044       | 0.044        | 1032              | 287.1        | 0.000         | 0.000         | 0.039       | 0.035        | 825               | 1403         | 0.000         | 0.000         | 0.180       | 0.171        | 41818             |
| <b>Monthly</b>        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| <b>Total</b>          |              |               |               |             |              | 68337             |              |               |               |             |              | 73780             |              |               |               |             |              | 431703            |

**Annual Sediment Load (Metric Tonnes) : 772806**

**Daily Observed Sediment Datasheet for period : 2021-2022**

Station Name : Bawapuram ( AKL00B8)

Local River : Tungabhadra

Division : Lower Krishna Divn., Hyderabad

Sub-Division : Lower Tungabhadra SD, Kurnool

| Day                   | Dec          |               |               |             |              |                   | Jan          |               |               |             |              |                   | Feb          |               |               |             |              |                   |
|-----------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                       | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1                     | 481.1        | 0.000         | 0.000         | 0.024       | 0.024        | 1000              | 10.75        | 0.000         | 0.000         | 0.036       | 0.036        | 34                | 126.6        | 0.000         | 0.000         | 0.025       | 0.025        | 272               |
| 2                     | 712.6        | 0.000         | 0.000         | 0.024       | 0.024        | 1475              | 10.61        | 0.000         | 0.000         | 0.036       | 0.036        | 33                | 15.23        | 0.000         | 0.000         | 0.033       | 0.033        | 43                |
| 3                     | 321.4        | 0.000         | 0.000         | 0.024       | 0.024        | 672               | 11.45        | 0.000         | 0.000         | 0.032       | 0.032        | 32                | 14.88        | 0.000         | 0.000         | 0.033       | 0.033        | 42                |
| 4                     | 305.8        | 0.000         | 0.000         | 0.024       | 0.024        | 640               | 11.10        | 0.000         | 0.000         | 0.036       | 0.036        | 34                | 25.80        | 0.000         | 0.000         | 0.029       | 0.029        | 65                |
| 5                     | 420.0        | 0.000         | 0.000         | 0.024       | 0.024        | 874               | 11.57        | 0.000         | 0.000         | 0.035       | 0.035        | 35                | 21.31        | 0.000         | 0.000         | 0.030       | 0.030        | 55                |
| 6                     | 306.9        | 0.000         | 0.000         | 0.024       | 0.024        | 628               | 10.16        | 0.000         | 0.000         | 0.037       | 0.037        | 32                | 15.88        | 0.000         | 0.000         | 0.032       | 0.032        | 44                |
| 7                     | 301.5        | 0.000         | 0.000         | 0.024       | 0.024        | 631               | 10.13        | 0.000         | 0.000         | 0.037       | 0.037        | 32                | 14.22        | 0.000         | 0.000         | 0.055       | 0.055        | 67                |
| 8                     | 277.8        | 0.000         | 0.000         | 0.024       | 0.024        | 582               | 9.981        | 0.000         | 0.000         | 0.037       | 0.037        | 32                | 9.581        | 0.000         | 0.000         | 0.038       | 0.038        | 31                |
| 9                     | 309.8        | 0.000         | 0.000         | 0.024       | 0.024        | 648               | 9.981        | 0.000         | 0.000         | 0.037       | 0.037        | 32                | 6.956        | 0.000         | 0.000         | 0.043       | 0.043        | 26                |
| 10                    | 154.1        | 0.000         | 0.000         | 0.025       | 0.025        | 328               | 9.376        | 0.000         | 0.000         | 0.018       | 0.018        | 15                | 6.750        | 0.000         | 0.000         | 0.044       | 0.044        | 25                |
| 11                    | 253.1        | 0.000         | 0.000         | 0.024       | 0.024        | 531               | 9.028        | 0.000         | 0.000         | 0.039       | 0.039        | 30                | 6.938        | 0.000         | 0.000         | 0.043       | 0.043        | 26                |
| 12                    | 72.64        | 0.000         | 0.000         | 0.026       | 0.026        | 161               | 9.655        | 0.000         | 0.000         | 0.038       | 0.038        | 31                | 8.935        | 0.000         | 0.000         | 0.039       | 0.039        | 30                |
| 13                    | 140.5        | 0.000         | 0.000         | 0.029       | 0.029        | 351               | 9.448        | 0.000         | 0.000         | 0.038       | 0.038        | 31                | 8.935        | 0.000         | 0.000         | 0.039       | 0.039        | 30                |
| 14                    | 16.22        | 0.000         | 0.000         | 0.032       | 0.032        | 45                | 9.981        | 0.000         | 0.000         | 0.037       | 0.037        | 32                | 5.728        | 0.000         | 0.000         | 0.021       | 0.021        | 10                |
| 15                    | 229.2        | 0.000         | 0.000         | 0.024       | 0.024        | 482               | 8.463        | 0.000         | 0.000         | 0.040       | 0.040        | 29                | 5.350        | 0.000         | 0.000         | 0.049       | 0.049        | 23                |
| 16                    | 98.47        | 0.000         | 0.000         | 0.025       | 0.025        | 214               | 9.423        | 0.000         | 0.000         | 0.038       | 0.038        | 31                | 7.565        | 0.000         | 0.000         | 0.042       | 0.042        | 27                |
| 17                    | 39.55        | 0.000         | 0.000         | 0.027       | 0.027        | 93                | 8.056        | 0.000         | 0.000         | 0.044       | 0.044        | 30                | 7.565        | 0.000         | 0.000         | 0.042       | 0.042        | 27                |
| 18                    | 12.11        | 0.000         | 0.000         | 0.035       | 0.035        | 36                | 8.183        | 0.000         | 0.000         | 0.040       | 0.040        | 28                | 8.634        | 0.000         | 0.000         | 0.039       | 0.039        | 29                |
| 19                    | 10.25        | 0.000         | 0.000         | 0.037       | 0.037        | 33                | 8.892        | 0.000         | 0.000         | 0.039       | 0.039        | 30                | 8.634        | 0.000         | 0.000         | 0.039       | 0.039        | 29                |
| 20                    | 10.59        | 0.000         | 0.000         | 0.025       | 0.025        | 23                | 7.423        | 0.000         | 0.000         | 0.042       | 0.042        | 27                | 8.634        | 0.000         | 0.000         | 0.039       | 0.039        | 29                |
| 21                    | 11.64        | 0.000         | 0.000         | 0.035       | 0.035        | 36                | 6.270        | 0.000         | 0.000         | 0.045       | 0.045        | 24                | 4.435        | 0.000         | 0.000         | 0.067       | 0.067        | 26                |
| 22                    | 11.79        | 0.000         | 0.000         | 0.035       | 0.035        | 36                | 5.646        | 0.000         | 0.000         | 0.048       | 0.048        | 23                | 5.227        | 0.000         | 0.000         | 0.049       | 0.049        | 22                |
| 23                    | 13.25        | 0.000         | 0.000         | 0.034       | 0.034        | 39                | 8.935        | 0.000         | 0.000         | 0.039       | 0.039        | 30                | 5.134        | 0.000         | 0.000         | 0.050       | 0.050        | 22                |
| 24                    | 13.05        | 0.000         | 0.000         | 0.034       | 0.034        | 38                | 7.953        | 0.000         | 0.000         | 0.053       | 0.053        | 37                | 25.05        | 0.000         | 0.000         | 0.029       | 0.029        | 63                |
| 25                    | 10.61        | 0.000         | 0.000         | 0.036       | 0.036        | 33                | 6.661        | 0.000         | 0.000         | 0.044       | 0.044        | 25                | 13.79        | 0.000         | 0.000         | 0.034       | 0.034        | 40                |
| 26                    | 12.93        | 0.000         | 0.000         | 0.034       | 0.034        | 38                | 8.935        | 0.000         | 0.000         | 0.039       | 0.039        | 30                | 195.4        | 0.000         | 0.000         | 0.024       | 0.024        | 413               |
| 27                    | 11.61        | 0.000         | 0.000         | 0.081       | 0.081        | 81                | 6.272        | 0.000         | 0.000         | 0.045       | 0.045        | 24                | 18.92        | 0.000         | 0.000         | 0.031       | 0.031        | 50                |
| 28                    | 11.93        | 0.000         | 0.000         | 0.035       | 0.035        | 36                | 6.338        | 0.000         | 0.000         | 0.045       | 0.045        | 25                | 9.107        | 0.000         | 0.000         | 0.053       | 0.053        | 42                |
| 29                    | 11.26        | 0.000         | 0.000         | 0.036       | 0.036        | 35                | 6.404        | 0.000         | 0.000         | 0.045       | 0.045        | 25                |              |               |               |             |              |                   |
| 30                    | 11.28        | 0.000         | 0.000         | 0.036       | 0.036        | 35                | 10.61        | 0.000         | 0.000         | 0.036       | 0.036        | 33                |              |               |               |             |              |                   |
| 31                    | 11.37        | 0.000         | 0.000         | 0.036       | 0.036        | 35                | 187.2        | 0.000         | 0.000         | 0.023       | 0.023        | 378               |              |               |               |             |              |                   |
| <b>Ten Daily Mean</b> |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| <b>Ten Daily I</b>    | 359.1        | 0.000         | 0.000         | 0.024       | 0.024        | 748               | 10.51        | 0.000         | 0.000         | 0.034       | 0.034        | 31                | 25.72        | 0.000         | 0.000         | 0.036       | 0.036        | 67                |
| <b>Ten Daily II</b>   | 88.26        | 0.000         | 0.000         | 0.028       | 0.028        | 197               | 8.855        | 0.000         | 0.000         | 0.039       | 0.039        | 30                | 7.692        | 0.000         | 0.000         | 0.039       | 0.039        | 26                |
| <b>Ten Daily III</b>  | 11.88        | 0.000         | 0.000         | 0.039       | 0.039        | 40                | 23.75        | 0.000         | 0.000         | 0.042       | 0.042        | 60                | 34.64        | 0.000         | 0.000         | 0.042       | 0.042        | 85                |
| <b>Monthly</b>        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| <b>Total</b>          |              |               |               |             |              | 9888              |              |               |               |             |              | 1268              |              |               |               |             |              | 1610              |

**Daily Observed Sediment Datasheet for period : 2021-2022**

**Station Name : Bawapuram ( AKL00B8)**

**Local River : Tungabhadra**

**Division : Lower Krishna Divn., Hyderabad**

**Sub-Division : Lower Tungabhadra SD, Kurnool**

| Day                   | Mar          |               |               |             |              |                   | Apr          |               |               |             |              |                   | May          |               |               |             |              |                   |
|-----------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                       | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1                     | 6.411        | 0.000         | 0.000         | 0.045       | 0.045        | 25                | 11.44        | 0.000         | 0.000         | 0.036       | 0.036        | 35                | 9.257        | 0.000         | 0.000         | 0.038       | 0.038        | 31                |
| 2                     | 5.863        | 0.000         | 0.000         | 0.047       | 0.047        | 24                | 13.91        | 0.000         | 0.000         | 0.033       | 0.033        | 40                | 10.33        | 0.000         | 0.000         | 0.018       | 0.018        | 16                |
| 3                     | 8.519        | 0.000         | 0.000         | 0.040       | 0.040        | 29                | 15.25        | 0.000         | 0.000         | 0.033       | 0.033        | 43                | 65.41        | 0.000         | 0.000         | 0.026       | 0.026        | 146               |
| 4                     | 8.519        | 0.000         | 0.000         | 0.040       | 0.040        | 29                | 11.69        | 0.000         | 0.000         | 0.048       | 0.048        | 48                | 7.849        | 0.000         | 0.000         | 0.041       | 0.041        | 28                |
| 5                     | 7.565        | 0.000         | 0.000         | 0.042       | 0.042        | 27                | 6.508        | 0.000         | 0.000         | 0.044       | 0.044        | 25                | 4.258        | 0.000         | 0.000         | 0.055       | 0.055        | 20                |
| 6                     | 7.597        | 0.000         | 0.000         | 0.041       | 0.041        | 27                | 4.664        | 0.000         | 0.000         | 0.053       | 0.053        | 21                | 3.519        | 0.000         | 0.000         | 0.062       | 0.062        | 19                |
| 7                     | 7.973        | 0.000         | 0.000         | 0.037       | 0.037        | 25                | 4.145        | 0.000         | 0.000         | 0.056       | 0.056        | 20                | 2.888        | 0.000         | 0.000         | 0.070       | 0.070        | 18                |
| 8                     | 8.634        | 0.000         | 0.000         | 0.039       | 0.039        | 29                | 3.923        | 0.000         | 0.000         | 0.058       | 0.058        | 20                | 9.563        | 0.000         | 0.000         | 0.038       | 0.038        | 31                |
| 9                     | 9.072        | 0.000         | 0.000         | 0.039       | 0.039        | 30                | 3.965        | 0.000         | 0.000         | 0.058       | 0.058        | 20                | 10.39        | 0.000         | 0.000         | 0.011       | 0.011        | 10                |
| 10                    | 9.072        | 0.000         | 0.000         | 0.039       | 0.039        | 30                | 4.010        | 0.000         | 0.000         | 0.057       | 0.057        | 20                | 11.44        | 0.000         | 0.000         | 0.036       | 0.036        | 35                |
| 11                    | 9.072        | 0.000         | 0.000         | 0.039       | 0.039        | 30                | 3.711        | 0.000         | 0.000         | 0.023       | 0.023        | 7                 | 10.11        | 0.000         | 0.000         | 0.037       | 0.037        | 32                |
| 12                    | 8.634        | 0.000         | 0.000         | 0.039       | 0.039        | 29                | 3.800        | 0.000         | 0.000         | 0.059       | 0.059        | 19                | 4.290        | 0.000         | 0.000         | 0.055       | 0.055        | 20                |
| 13                    | 8.634        | 0.000         | 0.000         | 0.039       | 0.039        | 29                | 10.63        | 0.000         | 0.000         | 0.036       | 0.036        | 33                | 4.051        | 0.000         | 0.000         | 0.057       | 0.057        | 20                |
| 14                    | 3.528        | 0.000         | 0.000         | 0.025       | 0.025        | 8                 | 8.256        | 0.000         | 0.000         | 0.040       | 0.040        | 29                | 4.100        | 0.000         | 0.000         | 0.057       | 0.057        | 20                |
| 15                    | 3.001        | 0.000         | 0.000         | 0.069       | 0.069        | 18                | 7.956        | 0.000         | 0.000         | 0.041       | 0.041        | 28                | 4.065        | 0.000         | 0.000         | 0.057       | 0.057        | 20                |
| 16                    | 2.069        | 0.000         | 0.000         | 0.089       | 0.089        | 16                | 14.47        | 0.000         | 0.000         | 0.033       | 0.033        | 41                | 3.958        | 0.000         | 0.000         | 0.058       | 0.058        | 20                |
| 17                    | 2.042        | 0.000         | 0.000         | 0.090       | 0.090        | 16                | 12.26        | 0.000         | 0.000         | 0.035       | 0.035        | 37                | 4.578        | 0.000         | 0.000         | 0.053       | 0.053        | 21                |
| 18                    | 2.040        | 0.000         | 0.000         | 0.090       | 0.090        | 16                | 5.059        | 0.000         | 0.000         | 0.034       | 0.034        | 15                | 4.365        | 0.000         | 0.000         | 0.055       | 0.055        | 21                |
| 19                    | 2.007        | 0.000         | 0.000         | 0.091       | 0.091        | 16                | 3.693        | 0.000         | 0.000         | 0.060       | 0.060        | 19                | 4.290        | 0.000         | 0.000         | 0.055       | 0.055        | 20                |
| 20                    | 2.010        | 0.000         | 0.000         | 0.091       | 0.091        | 16                | 3.580        | 0.000         | 0.000         | 0.061       | 0.061        | 19                | 11.21        | 0.000         | 0.000         | 0.036       | 0.036        | 35                |
| 21                    | 1.510        | 0.000         | 0.000         | 0.041       | 0.041        | 5                 | 3.208        | 0.000         | 0.000         | 0.066       | 0.066        | 18                | 13.24        | 0.000         | 0.000         | 0.034       | 0.034        | 39                |
| 22                    | 1.564        | 0.000         | 0.000         | 0.110       | 0.110        | 15                | 2.143        | 0.000         | 0.000         | 0.086       | 0.086        | 16                | 187.2        | 0.000         | 0.000         | 0.024       | 0.024        | 396               |
| 23                    | 1.204        | 0.000         | 0.000         | 0.135       | 0.135        | 14                | 3.594        | 0.000         | 0.000         | 0.061       | 0.061        | 19                | 492.7        | 0.000         | 0.000         | 0.015       | 0.015        | 651               |
| 24                    | 1.100        | 0.000         | 0.000         | 0.146       | 0.146        | 14                | 124.5        | 0.000         | 0.000         | 0.025       | 0.025        | 267               | 237.2        | 0.000         | 0.000         | 0.024       | 0.024        | 499               |
| 25                    | 1.118        | 0.000         | 0.000         | 0.144       | 0.144        | 14                | 11.16        | 0.000         | 0.000         | 0.033       | 0.033        | 31                | 229.8        | 0.000         | 0.000         | 0.024       | 0.024        | 484               |
| 26                    | 1.291        | 0.000         | 0.000         | 0.128       | 0.128        | 14                | 14.00        | 0.000         | 0.000         | 0.033       | 0.033        | 40                | 163.4        | 0.000         | 0.000         | 0.025       | 0.025        | 347               |
| 27                    | 1.310        | 0.000         | 0.000         | 0.126       | 0.126        | 14                | 11.03        | 0.000         | 0.000         | 0.036       | 0.036        | 34                | 150.1        | 0.000         | 0.000         | 0.025       | 0.025        | 320               |
| 28                    | 1.591        | 0.000         | 0.000         | 0.048       | 0.048        | 7                 | 10.83        | 0.000         | 0.000         | 0.036       | 0.036        | 34                | 147.3        | 0.000         | 0.000         | 0.025       | 0.025        | 314               |
| 29                    | 1.910        | 0.000         | 0.000         | 0.094       | 0.094        | 16                | 10.07        | 0.000         | 0.000         | 0.037       | 0.037        | 32                | 18.92        | 0.000         | 0.000         | 0.031       | 0.031        | 50                |
| 30                    | 14.52        | 0.000         | 0.000         | 0.033       | 0.033        | 41                | 11.01        | 0.000         | 0.000         | 0.036       | 0.036        | 34                | 4.314        | 0.000         | 0.000         | 0.069       | 0.069        | 26                |
| 31                    | 193.9        | 0.000         | 0.000         | 0.024       | 0.024        | 410               |              |               |               |             |              |                   | 3.290        | 0.000         | 0.000         | 0.065       | 0.065        | 18                |
| <b>Ten Daily Mean</b> |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| <b>Ten Daily I</b>    | 7.923        | 0.000         | 0.000         | 0.041       | 0.041        | 28                | 7.951        | 0.000         | 0.000         | 0.048       | 0.048        | 29                | 13.49        | 0.000         | 0.000         | 0.039       | 0.039        | 35                |
| <b>Ten Daily II</b>   | 4.304        | 0.000         | 0.000         | 0.066       | 0.066        | 19                | 7.342        | 0.000         | 0.000         | 0.042       | 0.042        | 25                | 5.502        | 0.000         | 0.000         | 0.052       | 0.052        | 23                |
| <b>Ten Daily III</b>  | 20.10        | 0.000         | 0.000         | 0.094       | 0.094        | 51                | 20.15        | 0.000         | 0.000         | 0.045       | 0.045        | 53                | 149.8        | 0.000         | 0.000         | 0.033       | 0.033        | 286               |
| <b>Monthly</b>        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| <b>Total</b>          |              |               |               |             |              | 1033              |              |               |               |             |              | 1066              |              |               |               |             |              | 3726              |

# Annual Sediment Load for period : 1966-2022

Station Name : Bawapuram ( AKL00B8)

Local River : Tungabhadra

Division : Lower Krishna Divn., Hyderabad

Sub-Division : Lower Tungabhadra SD, Kurnool

| Year      | Monsoon<br>(M.T.) | Non-Monsoon<br>(M.T.) | Annual Load<br>(M.T.) | Annual Run Off<br>(MCM) |
|-----------|-------------------|-----------------------|-----------------------|-------------------------|
| 1966-1967 | 7638227           | 783957                | 8422184               | 3594                    |
| 1967-1968 | 7014349           | 19619                 | 7033968               | 5002                    |
| 1968-1969 | 13375794          | 193557                | 13569350              | 6511                    |
| 1969-1970 | 8166348           | 359243                | 8525591               | 6954                    |
| 1970-1971 | 14542379          | 14598                 | 14556978              | 10160                   |
| 1971-1972 | 4734163           | 603728                | 5337891               | 4723                    |
| 1972-1973 | 1842941           | 7679                  | 1850620               | 2246                    |
| 1973-1974 | 7900568           | 35092                 | 7935660               | 5958                    |
| 1974-1975 | 9687633           | 11532                 | 9699165               | 6020                    |
| 1975-1976 | 14925464          | 12839                 | 14938303              | 14903                   |
| 1976-1977 | 128895            | 26979                 | 155874                | 978                     |
| 1977-1978 | 3603314           | 10952                 | 3614266               | 3608                    |
| 1978-1979 | 9226377           | 24650                 | 9251027               | 11867                   |
| 1979-1980 | 1836360           | 21245                 | 1857605               | 3843                    |
| 1980-1981 | 2876436           | 5051                  | 2881487               | 9061                    |
| 1981-1982 | 6090750           | 10137                 | 6100887               | 6900                    |
| 1982-1983 | 1842240           | 2469                  | 1844710               | 5038                    |
| 1983-1984 | 5310228           | 3315                  | 5313543               | 4830                    |
| 1984-1985 | 2250672           | 966                   | 2251638               | 3964                    |
| 1985-1986 | 786300            | 6103                  | 792403                | 1283                    |
| 1986-1987 | 2418239           | 1047                  | 2419286               | 2161                    |
| 1987-1988 | 4374254           | 18201                 | 4392456               | 2475                    |
| 1988-1989 | 3592534           | 4306                  | 3596840               | 4447                    |
| 1989-1990 | 2737711           | 382565                | 3120275               | 2812                    |
| 1990-1991 | 2613056           | 853                   | 2613909               | 4492                    |
| 1991-1992 | 2297951           | 1579                  | 2299531               | 6284                    |
| 1992-1993 | 4000887           | 9609                  | 4010496               | 9831                    |
| 1993-1994 | 4014164           | 17329                 | 4031493               | 5927                    |
| 1994-1995 | 2745700           | 1309                  | 2747009               | 10204                   |
| 1995-1996 | 403594            | 283                   | 403877                | 1834                    |
| 1996-1997 | 2677880           | 11149                 | 2689029               | 5515                    |
| 1997-1998 | 554465            | 3871                  | 558337                | 4741                    |
| 1998-1999 | 4106622           | 1041                  | 4107663               | 8275                    |
| 1999-2000 | 1167503           | 5516                  | 1173018               | 5261                    |
| 2000-2001 | 1568119           | 8975                  | 1577094               | 5578                    |
| 2001-2002 | 1147278           | 1487                  | 1148765               | 3405                    |
| 2002-2003 | 128174            | 1423                  | 129597                | 839                     |
| 2003-2004 | 59523             | 6124                  | 65647                 | 672                     |
| 2004-2005 | 1030760           | 7007                  | 1037767               | 1695                    |
| 2005-2006 | 4072006           | 6656                  | 4078662               | 6129                    |
| 2006-2007 | 523597            | 1143                  | 524740                | 4558                    |
| 2007-2008 | 962113            | 25031                 | 987144                | 11526                   |
| 2008-2009 | 81093             | 7338                  | 88430                 | 5501                    |
| 2009-2010 | 1380296           | 3966                  | 1384262               | 13051                   |
| 2010-2011 | 12365             | 257                   | 12622                 | 5713                    |
| 2011-2012 | 14196             | 225                   | 14421                 | 3622                    |
| 2012-2013 | 139042            | 21                    | 139063                | 1351                    |
| 2013-2014 | 1391527           | 259                   | 1391787               | 7885                    |
| 2014-2015 | 695206            | 1173                  | 696380                | 6796                    |
| 2015-2016 | 84050             | 126                   | 84177                 | 1159                    |
| 2016-2017 | 27572             | 0                     | 27572                 | 356                     |
| 2017-2018 | 157983            | 1104                  | 159086                | 1683                    |
| 2018-2019 | 1237422           | 56                    | 1237478               | 5081                    |
| 2019-2020 | 1143913           | 4875                  | 1148788               | 7850                    |
| 2020-2021 | 558737            | 3440                  | 562177                | 6596                    |
| 2021-2022 | 754214            | 18592                 | 772806                | 6935                    |

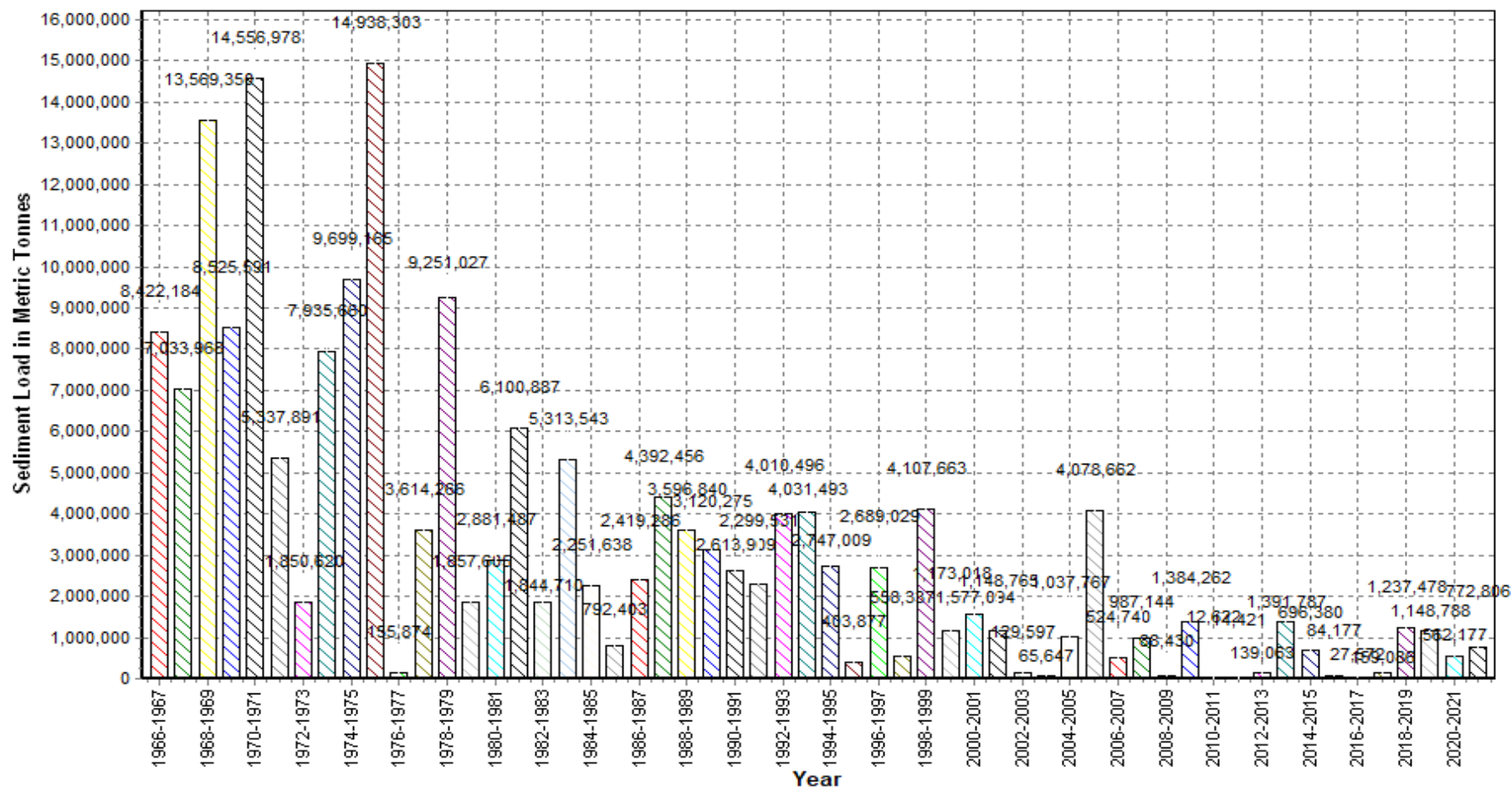
# Annual Sediment Load for the period: 1966-2022

Station Name : Bawapuram ( AKL00B8)

Local River : Tungabhadra

Division : Lower Krishna Divn., Hyderabad

Sub-Division : Lower Tungabhadra SD, Kurnool



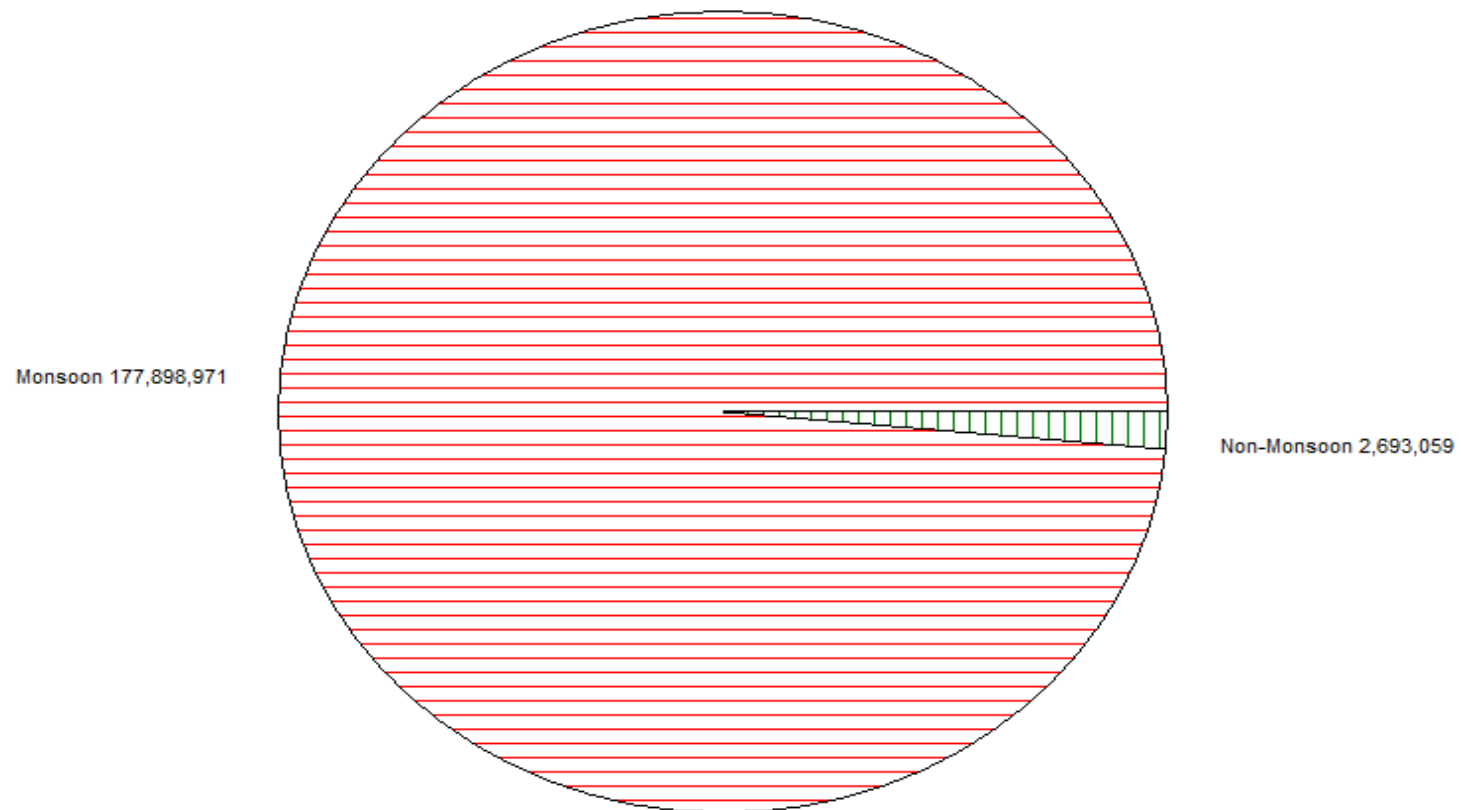
Seasonal Sediment Load for the period : 1966-2021

Station Name : Bawapuram ( AKL00B8)

Local River : Tungabhadra

Division : Lower Krishna Divn., Hyderabad

Sub-Division : Lower Tungabhadra SD, Kurnool





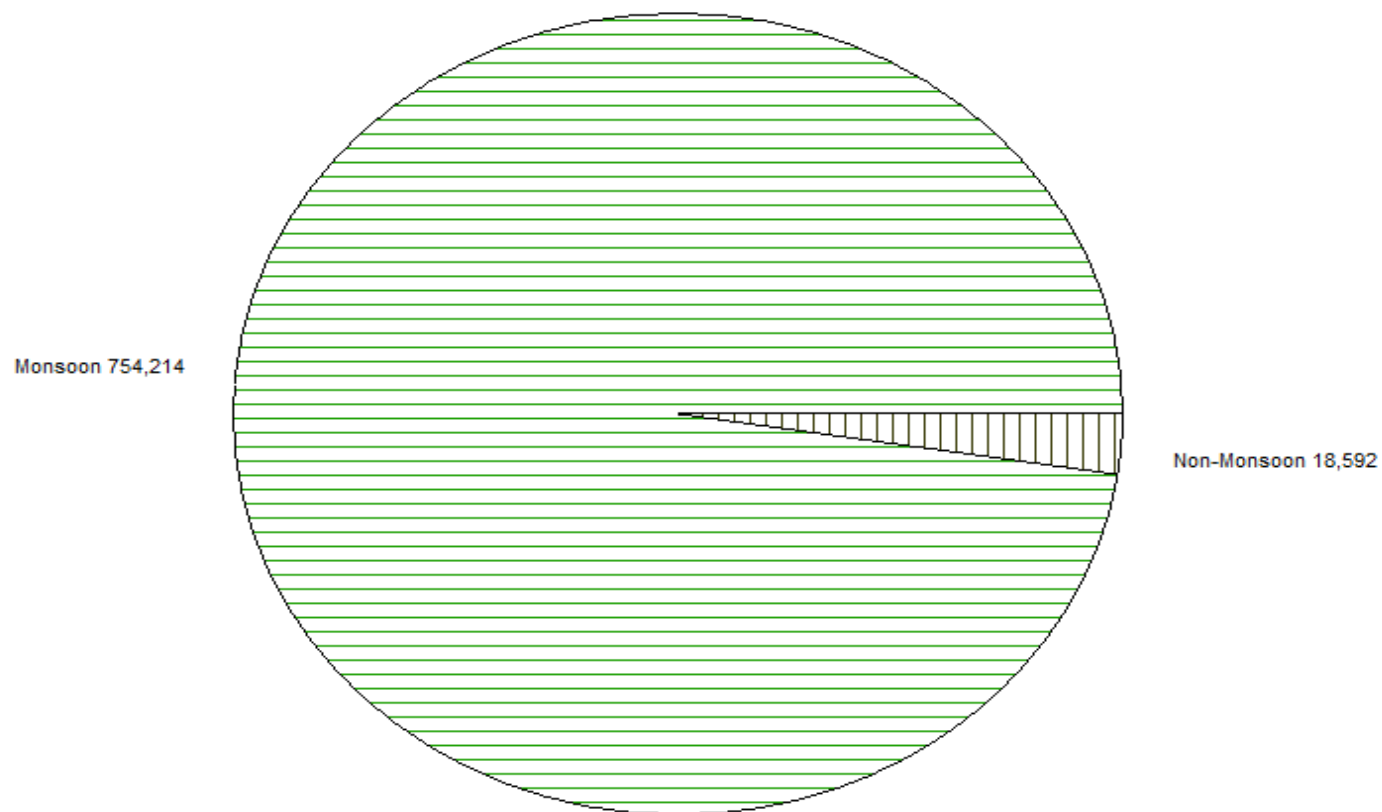
Seasonal Sediment Load for the Year: 2021-2022

Station Name : Bawapuram ( AKL00B8)

Local River : Tungabhadra

Division : Lower Krishna Divn., Hyderabad

Sub-Division : Lower Tungabhadra SD, Kurnool



**BED MATERIAL ANALYSIS DATA FOR THE YEAR 2021-22**

SITE : TUNGABHADRA AT BAWAPURAM CODE : AKL00B8  
 MEASURING : LKDN CROSS SECTION : Station gauge line  
 AUTHORITY

**Premonsoon Survey ( Date 02-06-2021 )**

Discharge Observed : 8.242 cumec Water edge RB 149.00 m LB : 409.00 m  
 Area of section : 459.93 sq.m MeanVelocit : 0.0179 m/sec  
 Wetted perimeter : 253.42 Hydraulic Mean Depth : 1.8149 m

| Sl. No | R.D.of sampling point in meters | R.L. of bed in meters | Mean diameter in mm | Remarks               |
|--------|---------------------------------|-----------------------|---------------------|-----------------------|
| 1      | 100                             | 271.165               | 1.03                |                       |
| 2      | 180                             | 268.645               | 0.79                | Av.mean               |
| 3      | 240                             | 268.095               | 1.10                | dia "m" = <b>0.80</b> |
| 4      | 300                             | 268.945               | 0.82                | Silt factor           |
| 5      | 360                             | 268.755               | 0.41                | "f" =1.76 $\sqrt{m}$  |
| 6      | 420                             | 272.245               | 0.63                | = <b>1.57</b>         |

**Note :** i. Discharge observation was at station gauge line.  
 ii. River bed : Flowing water.

**Monsoon Survey ( Date 27-10-2021 )**

Discharge Observed : 791.422 cumec Water edge RB 422.80 m LB : 58.50 m  
 Area of section : 1050.50 sq.m MeanVelocit : 0.7534 m/sec  
 Wetted perimeter : 365.12 Hydraulic Mean Depth : 2.8771 m

| Sl. No | R.D.of sampling point in meters | R.L. of bed in meters | Mean diameter in mm | Remarks               |
|--------|---------------------------------|-----------------------|---------------------|-----------------------|
| 1      | 100                             | 271.355               | 0.95                |                       |
| 2      | 180                             | 268.515               | 0.43                | Av.mean               |
| 3      | 240                             | 268.135               | 1.19                | dia "m" = <b>0.73</b> |
| 4      | 300                             | 268.985               | 0.61                | Silt factor           |
| 5      | 360                             | 268.855               | 0.57                | "f" =1.76 $\sqrt{m}$  |
| 6      | 420                             | 272.385               | 0.63                | = <b>1.50</b>         |

**Note :** i. Discharge observation was at station gauge line.  
 ii. River bed : Flowing water.

**Postmonsoon Survey ( Date 16-12-2021 )**

Discharge Observed : 98.5 cumec Water edge RB 414.80 m LB : 136.20 m  
 Area of section : 603.43 sq.m MeanVelocit : 0.1632 m/sec  
 Wetted perimeter : 278.29 Hydraulic Mean Depth : 2.1684 m

| Sl. No | R.D.of sampling point in meters | R.L. of bed in meters | Mean diameter in mm | Remarks               |
|--------|---------------------------------|-----------------------|---------------------|-----------------------|
| 1      | 100                             | 271.200               | 1.03                |                       |
| 2      | 180                             | 268.495               | 0.55                | Av.mean               |
| 3      | 240                             | 268.395               | 0.91                | dia "m" = <b>0.77</b> |
| 4      | 300                             | 268.995               | 0.98                | Silt factor           |
| 5      | 360                             | 268.745               | 0.48                | "f" =1.76 $\sqrt{m}$  |
| 6      | 420                             | 272.875               | 0.64                | = <b>1.54</b>         |

**Note :** i. Discharge observation was at station gauge line.  
 ii. River bed : Flowing water.

## HISTORY SHEET

|                          |                                  |                   |                                   |
|--------------------------|----------------------------------|-------------------|-----------------------------------|
|                          |                                  | <b>Water Year</b> | <b>: 2021-2022</b>                |
| <b>Site</b>              | <b>: DAMERCHERLA</b>             | <b>Code</b>       | <b>: AKF00A7</b>                  |
| State                    | : Andhra Pradesh                 | District          | Nalgonda                          |
| Basin                    | : Krishna                        | Independent River | : Krishna                         |
| Tributary                | : Musi                           | Sub Tributary     | : -                               |
| Sub-Sub Tributary        | : -                              | Local River       | : Musi                            |
| Division                 | : Lower Krishna Divn., Hyderabad | Sub-Division      | : Lower Krishna SD 1, Miryalaguda |
| Drainage Area            | : 11501 Sq. Km.                  | Bank              | :                                 |
| Latitude                 | : 16°44'21"                      | Longitude         | : 79°40'11"                       |
| <b>Zero of Gauge (m)</b> | : 56 (m.s.l)                     | 01-06-1968        | - 31-05-1972                      |
|                          | : 55 (m.s.l)                     | 01-06-1972        | - 31-05-2010                      |
|                          | : 53 (m.s.l)                     | 01-06-2010        |                                   |
|                          | Opening Date                     | Closing Date      |                                   |
| Gauge                    | : 21-07-1968                     |                   |                                   |
| Discharge                | : 27-07-1968                     |                   |                                   |
| Sediment                 | : 01-09-2013                     |                   |                                   |
| Water Quality            | : 01-01-1980                     |                   |                                   |

**Daily Observed Sediment Datasheet for period : 2021-2022**

**Station Name : DAMERCHERLA ( AKF00A7)**

**Local River : Musi**

**Division : Lower Krishna Divn., Hyderabad**

**Sub-Division : Lower Krishna SD 1, Miryalaguda**

| Day                   | Jun          |               |               |             |              |                   | Jul          |               |               |             |              |                   | Aug          |               |               |             |              |                   |
|-----------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                       | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1                     | 1.867        | 0.000         | 0.000         | 0.172       | 0.172        | 28                | 5.007        | 0.000         | 0.000         | 0.017       | 0.017        | 7                 | 11.25        | 0.000         | 0.000         | 0.064       | 0.064        | 62                |
| 2                     | 1.820        | 0.000         | 0.000         | 0.175       | 0.175        | 28                | 7.848        | 0.000         | 0.000         | 0.043       | 0.043        | 29                | 15.25        | 0.000         | 0.000         | 0.058       | 0.058        | 76                |
| 3                     | 1.810        | 0.000         | 0.000         | 0.176       | 0.176        | 28                | 10.90        | 0.000         | 0.000         | 0.020       | 0.020        | 19                | 12.25        | 0.000         | 0.000         | 0.062       | 0.062        | 65                |
| 4                     | 16.85        | 0.000         | 0.000         | 0.013       | 0.013        | 19                | 7.250        | 0.000         | 0.000         | 0.075       | 0.075        | 47                | 6.034        | 0.000         | 0.000         | 0.011       | 0.011        | 6                 |
| 5                     | 8.080        | 0.000         | 0.000         | 0.047       | 0.047        | 33                | 7.227        | 0.000         | 0.000         | 0.138       | 0.138        | 86                | 4.537        | 0.000         | 0.000         | 0.013       | 0.013        | 5                 |
| 6                     | 6.250        | 0.000         | 0.000         | 0.081       | 0.081        | 44                | 5.249        | 0.000         | 0.000         | 0.077       | 0.077        | 35                | 4.601        | 0.000         | 0.000         | 0.019       | 0.019        | 7                 |
| 7                     | 5.502        | 0.000         | 0.000         | 0.086       | 0.086        | 41                | 8.219        | 0.000         | 0.000         | 0.048       | 0.048        | 34                | 3.496        | 0.000         | 0.000         | 0.068       | 0.068        | 20                |
| 8                     | 4.915        | 0.000         | 0.000         | 0.058       | 0.058        | 25                | 8.507        | 0.000         | 0.000         | 0.033       | 0.033        | 24                | 5.650        | 0.000         | 0.000         | 0.085       | 0.085        | 41                |
| 9                     | 4.179        | 0.000         | 0.000         | 0.046       | 0.046        | 16                | 7.195        | 0.000         | 0.000         | 0.107       | 0.107        | 67                | 3.542        | 0.000         | 0.000         | 0.071       | 0.071        | 22                |
| 10                    | 4.059        | 0.000         | 0.000         | 0.060       | 0.060        | 21                | 6.965        | 0.000         | 0.000         | 0.034       | 0.034        | 20                | 5.982        | 0.000         | 0.000         | 0.132       | 0.132        | 68                |
| 11                    | 3.787        | 0.000         | 0.000         | 0.067       | 0.067        | 22                | 6.950        | 0.000         | 0.000         | 0.077       | 0.077        | 46                | 4.535        | 0.000         | 0.000         | 0.031       | 0.031        | 12                |
| 12                    | 3.996        | 0.000         | 0.000         | 0.094       | 0.094        | 32                | 6.834        | 0.000         | 0.000         | 0.062       | 0.062        | 37                | 5.331        | 0.000         | 0.000         | 0.022       | 0.022        | 10                |
| 13                    | 4.560        | 0.000         | 0.000         | 0.095       | 0.095        | 38                | 7.108        | 0.000         | 0.000         | 0.120       | 0.120        | 74                | 19.47        | 0.000         | 0.000         | 0.040       | 0.040        | 67                |
| 14                    | 6.494        | 0.000         | 0.000         | 0.040       | 0.040        | 22                | 7.418        | 0.000         | 0.000         | 0.073       | 0.073        | 46                | 16.52        | 0.000         | 0.000         | 0.039       | 0.039        | 55                |
| 15                    | 5.385        | 0.000         | 0.000         | 0.031       | 0.031        | 14                | 15.82        | 0.000         | 0.000         | 0.112       | 0.112        | 154               | 40.12        | 0.000         | 0.000         | 0.048       | 0.048        | 166               |
| 16                    | 4.190        | 0.000         | 0.000         | 0.033       | 0.033        | 12                | 1561         | 0.000         | 0.000         | 0.042       | 0.042        | 5677              | 40.27        | 0.000         | 0.000         | 0.077       | 0.077        | 267               |
| 17                    | 3.897        | 0.000         | 0.000         | 0.033       | 0.033        | 11                | 372.7        | 0.000         | 0.000         | 0.139       | 0.139        | 4476              | 157.3        | 0.000         | 0.000         | 0.061       | 0.061        | 833               |
| 18                    | 3.644        | 0.000         | 0.000         | 0.046       | 0.046        | 15                | 352.3        | 0.000         | 0.000         | 0.043       | 0.043        | 1297              | 125.2        | 0.000         | 0.000         | 0.046       | 0.046        | 500               |
| 19                    | 3.522        | 0.000         | 0.000         | 0.041       | 0.041        | 12                | 164.5        | 0.000         | 0.000         | 0.030       | 0.030        | 425               | 99.43        | 0.000         | 0.000         | 0.034       | 0.034        | 290               |
| 20                    | 4.250        | 0.000         | 0.000         | 0.099       | 0.099        | 36                | 161.9        | 0.000         | 0.000         | 0.078       | 0.078        | 1089              | 80.39        | 0.000         | 0.000         | 0.045       | 0.045        | 312               |
| 21                    | 3.191        | 0.000         | 0.000         | 0.021       | 0.021        | 6                 | 151.7        | 0.000         | 0.000         | 0.044       | 0.044        | 570               | 29.21        | 0.000         | 0.000         | 0.074       | 0.074        | 187               |
| 22                    | 3.343        | 0.000         | 0.000         | 0.038       | 0.038        | 11                | 215.3        | 0.000         | 0.000         | 0.094       | 0.094        | 1753              | 46.32        | 0.000         | 0.000         | 0.047       | 0.047        | 189               |
| 23                    | 2.914        | 0.000         | 0.000         | 0.065       | 0.065        | 16                | 513.3        | 0.000         | 0.000         | 0.051       | 0.051        | 2275              | 45.91        | 0.000         | 0.000         | 0.032       | 0.032        | 125               |
| 24                    | 4.334        | 0.000         | 0.000         | 0.063       | 0.063        | 24                | 527.2        | 0.000         | 0.000         | 0.042       | 0.042        | 1931              | 39.36        | 0.000         | 0.000         | 0.030       | 0.030        | 102               |
| 25                    | 3.206        | 0.000         | 0.000         | 0.075       | 0.075        | 21                | 512.5        | 0.000         | 0.000         | 0.042       | 0.042        | 1878              | 29.50        | 0.000         | 0.000         | 0.053       | 0.053        | 136               |
| 26                    | 2.424        | 0.000         | 0.000         | 0.038       | 0.038        | 8                 | 189.2        | 0.000         | 0.000         | 0.066       | 0.066        | 1071              | 27.60        | 0.000         | 0.000         | 0.023       | 0.023        | 54                |
| 27                    | 2.460        | 0.000         | 0.000         | 0.141       | 0.141        | 30                | 106.3        | 0.000         | 0.000         | 0.056       | 0.056        | 514               | 40.23        | 0.000         | 0.000         | 0.020       | 0.020        | 68                |
| 28                    | 9.164        | 0.000         | 0.000         | 0.028       | 0.028        | 22                | 116.0        | 0.000         | 0.000         | 0.022       | 0.022        | 222               | 101.3        | 0.000         | 0.000         | 0.050       | 0.050        | 437               |
| 29                    | 6.385        | 0.000         | 0.000         | 0.039       | 0.039        | 22                | 32.52        | 0.000         | 0.000         | 0.012       | 0.012        | 33                | 154.4        | 0.000         | 0.000         | 0.044       | 0.044        | 580               |
| 30                    | 5.197        | 0.000         | 0.000         | 0.052       | 0.052        | 23                | 16.99        | 0.000         | 0.000         | 0.054       | 0.054        | 79                | 478.5        | 0.000         | 0.000         | 0.170       | 0.170        | 7036              |
| 31                    |              |               |               |             |              |                   | 13.23        | 0.000         | 0.000         | 0.020       | 0.020        | 22                | 1486         | 0.000         | 0.000         | 0.042       | 0.042        | 5405              |
| <b>Ten Daily Mean</b> |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| <b>Ten Daily I</b>    | 5.534        | 0.000         | 0.000         | 0.091       | 0.091        | 28                | 7.437        | 0.000         | 0.000         | 0.059       | 0.059        | 37                | 7.259        | 0.000         | 0.000         | 0.058       | 0.058        | 37                |
| <b>Ten Daily II</b>   | 4.373        | 0.000         | 0.000         | 0.058       | 0.058        | 21                | 265.6        | 0.000         | 0.000         | 0.078       | 0.078        | 1332              | 58.86        | 0.000         | 0.000         | 0.044       | 0.044        | 251               |
| <b>Ten Daily III</b>  | 4.262        | 0.000         | 0.000         | 0.056       | 0.056        | 18                | 217.7        | 0.000         | 0.000         | 0.046       | 0.046        | 941               | 225.3        | 0.000         | 0.000         | 0.053       | 0.053        | 1302              |
| <b>Monthly</b>        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| <b>Total</b>          |              |               |               |             |              | 679               |              |               |               |             |              | 24037             |              |               |               |             |              | 17204             |

**Annual Sediment Load (Metric Tonnes) : 155387**

**Daily Observed Sediment Datasheet for period : 2021-2022**

**Station Name : DAMERCHERLA ( AKF00A7)**

**Local River : Musi**

**Division : Lower Krishna Divn., Hyderabad**

**Sub-Division : Lower Krishna SD 1, Miryalaguda**

| Day                   | Sep          |               |               |             |              |                   | Oct          |               |               |             |              |                   | Nov          |               |               |             |              |                   |
|-----------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                       | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1                     | 905.4        | 0.000         | 0.000         | 0.079       | 0.079        | 6195              | 191.0        | 0.000         | 0.000         | 0.057       | 0.057        | 939               | 190.3        | 0.000         | 0.000         | 0.048       | 0.048        | 791               |
| 2                     | 569.0        | 0.000         | 0.000         | 0.032       | 0.032        | 1559              | 35.09        | 0.000         | 0.000         | 0.042       | 0.042        | 128               | 243.2        | 0.000         | 0.000         | 0.031       | 0.031        | 647               |
| 3                     | 473.3        | 0.000         | 0.000         | 0.031       | 0.031        | 1268              | 28.08        | 0.000         | 0.000         | 0.040       | 0.040        | 98                | 131.8        | 0.000         | 0.000         | 0.026       | 0.026        | 296               |
| 4                     | 502.0        | 0.000         | 0.000         | 0.032       | 0.032        | 1366              | 122.2        | 0.000         | 0.000         | 0.085       | 0.085        | 899               | 109.9        | 0.000         | 0.000         | 0.054       | 0.054        | 511               |
| 5                     | 357.5        | 0.000         | 0.000         | 0.043       | 0.043        | 1316              | 124.5        | 0.000         | 0.000         | 0.073       | 0.073        | 784               | 101.1        | 0.000         | 0.000         | 0.034       | 0.034        | 300               |
| 6                     | 960.3        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 184.1        | 0.000         | 0.000         | 0.036       | 0.036        | 574               | 125.6        | 0.000         | 0.000         | 0.035       | 0.035        | 379               |
| 7                     | 1022         | 0.000         | 0.000         | 0.045       | 0.045        | 3975              | 135.5        | 0.000         | 0.000         | 0.042       | 0.042        | 492               | 89.84        | 0.000         | 0.000         | 0.040       | 0.040        | 310               |
| 8                     | 801.7        | 0.000         | 0.000         | 0.022       | 0.022        | 1531              | 95.25        | 0.000         | 0.000         | 0.057       | 0.057        | 472               | 116.9        | 0.000         | 0.000         | 0.040       | 0.040        | 404               |
| 9                     | 595.3        | 0.000         | 0.000         | 0.026       | 0.026        | 1337              | 132.1        | 0.000         | 0.000         | 0.058       | 0.058        | 656               | 92.61        | 0.000         | 0.000         | 0.054       | 0.054        | 430               |
| 10                    | 429.1        | 0.000         | 0.000         | 0.043       | 0.043        | 1576              | 225.5        | 0.000         | 0.000         | 0.063       | 0.063        | 1221              | 91.75        | 0.000         | 0.000         | 0.059       | 0.059        | 465               |
| 11                    | 218.8        | 0.000         | 0.000         | 0.069       | 0.069        | 1302              | 910.3        | 0.000         | 0.000         | 0.036       | 0.036        | 2808              | 92.16        | 0.000         | 0.000         | 0.053       | 0.053        | 421               |
| 12                    | 246.8        | 0.000         | 0.000         | 0.043       | 0.043        | 915               | 380.2        | 0.000         | 0.000         | 0.086       | 0.086        | 2832              | 89.17        | 0.000         | 0.000         | 0.047       | 0.047        | 361               |
| 13                    | 39.92        | 0.000         | 0.000         | 0.068       | 0.068        | 235               | 346.8        | 0.000         | 0.000         | 0.072       | 0.072        | 2145              | 95.91        | 0.000         | 0.000         | 0.047       | 0.047        | 388               |
| 14                    | 46.02        | 0.000         | 0.000         | 0.013       | 0.013        | 52                | 145.0        | 0.000         | 0.000         | 0.079       | 0.079        | 989               | 80.39        | 0.000         | 0.000         | 0.050       | 0.050        | 350               |
| 15                    | 134.3        | 0.000         | 0.000         | 0.072       | 0.072        | 833               | 99.67        | 0.000         | 0.000         | 0.053       | 0.053        | 454               | 86.92        | 0.000         | 0.000         | 0.040       | 0.040        | 303               |
| 16                    | 95.50        | 0.000         | 0.000         | 0.055       | 0.055        | 450               | 38.47        | 0.000         | 0.000         | 0.063       | 0.063        | 209               | 132.4        | 0.000         | 0.000         | 0.059       | 0.059        | 680               |
| 17                    | 91.23        | 0.000         | 0.000         | 0.049       | 0.049        | 389               | 104.7        | 0.000         | 0.000         | 0.053       | 0.053        | 482               | 99.53        | 0.000         | 0.000         | 0.062       | 0.062        | 536               |
| 18                    | 32.85        | 0.000         | 0.000         | 0.050       | 0.050        | 143               | 277.1        | 0.000         | 0.000         | 0.045       | 0.045        | 1075              | 84.24        | 0.000         | 0.000         | 0.076       | 0.076        | 555               |
| 19                    | 42.49        | 0.000         | 0.000         | 0.048       | 0.048        | 175               | 357.5        | 0.000         | 0.000         | 0.069       | 0.069        | 2135              | 75.80        | 0.000         | 0.000         | 0.050       | 0.050        | 326               |
| 20                    | 29.09        | 0.000         | 0.000         | 0.047       | 0.047        | 117               | 188.6        | 0.000         | 0.000         | 0.079       | 0.079        | 1282              | 89.41        | 0.000         | 0.000         | 0.065       | 0.065        | 500               |
| 21                    | 32.76        | 0.000         | 0.000         | 0.099       | 0.099        | 280               | 215.4        | 0.000         | 0.000         | 0.070       | 0.070        | 1299              | 85.07        | 0.000         | 0.000         | 0.051       | 0.051        | 375               |
| 22                    | 146.6        | 0.000         | 0.000         | 0.073       | 0.073        | 918               | 130.1        | 0.000         | 0.000         | 0.057       | 0.057        | 642               | 139.3        | 0.000         | 0.000         | 0.042       | 0.042        | 501               |
| 23                    | 368.4        | 0.000         | 0.000         | 0.044       | 0.044        | 1404              | 98.88        | 0.000         | 0.000         | 0.087       | 0.087        | 746               | 83.32        | 0.000         | 0.000         | 0.030       | 0.030        | 213               |
| 24                    | 444.7        | 0.000         | 0.000         | 0.062       | 0.062        | 2382              | 75.80        | 0.000         | 0.000         | 0.050       | 0.050        | 326               | 141.2        | 0.000         | 0.000         | 0.051       | 0.051        | 625               |
| 25                    | 304.8        | 0.000         | 0.000         | 0.055       | 0.055        | 1440              | 89.09        | 0.000         | 0.000         | 0.068       | 0.068        | 520               | 87.46        | 0.000         | 0.000         | 0.031       | 0.031        | 236               |
| 26                    | 261.5        | 0.000         | 0.000         | 0.043       | 0.043        | 967               | 120.9        | 0.000         | 0.000         | 0.068       | 0.068        | 706               | 145.3        | 0.000         | 0.000         | 0.036       | 0.036        | 447               |
| 27                    | 241.4        | 0.000         | 0.000         | 0.057       | 0.057        | 1191              | 97.50        | 0.000         | 0.000         | 0.080       | 0.080        | 676               | 47.71        | 0.000         | 0.000         | 0.027       | 0.027        | 113               |
| 28                    | 972.8        | 0.000         | 0.000         | 0.070       | 0.070        | 5867              | 92.10        | 0.000         | 0.000         | 0.096       | 0.096        | 762               | 46.32        | 0.000         | 0.000         | 0.045       | 0.045        | 179               |
| 29                    | 1628         | 0.000         | 0.000         | 0.042       | 0.042        | 5922              | 88.53        | 0.000         | 0.000         | 0.070       | 0.070        | 539               | 46.92        | 0.000         | 0.000         | 0.031       | 0.031        | 126               |
| 30                    | 922.5        | 0.000         | 0.000         | 0.042       | 0.042        | 3308              | 144.9        | 0.000         | 0.000         | 0.074       | 0.074        | 922               | 49.59        | 0.000         | 0.000         | 0.039       | 0.039        | 167               |
| 31                    |              |               |               |             |              |                   | 148.5        | 0.000         | 0.000         | 0.057       | 0.057        | 737               |              |               |               |             |              |                   |
| <b>Ten Daily Mean</b> |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| <b>Ten Daily I</b>    | 661.6        | 0.000         | 0.000         | 0.035       | 0.035        | 2012              | 127.3        | 0.000         | 0.000         | 0.055       | 0.055        | 626               | 129.3        | 0.000         | 0.000         | 0.042       | 0.042        | 453               |
| <b>Ten Daily II</b>   | 97.70        | 0.000         | 0.000         | 0.051       | 0.051        | 461               | 284.8        | 0.000         | 0.000         | 0.063       | 0.063        | 1441              | 92.60        | 0.000         | 0.000         | 0.055       | 0.055        | 442               |
| <b>Ten Daily III</b>  | 532.3        | 0.000         | 0.000         | 0.059       | 0.059        | 2368              | 118.3        | 0.000         | 0.000         | 0.071       | 0.071        | 716               | 87.22        | 0.000         | 0.000         | 0.038       | 0.038        | 298               |
| <b>Monthly</b>        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| <b>Total</b>          |              |               |               |             |              | 48410             |              |               |               |             |              | 28549             |              |               |               |             |              | 11934             |

**Annual Sediment Load (Metric Tonnes) : 155387**

**Daily Observed Sediment Datasheet for period : 2021-2022**

**Station Name : DAMERCHERLA ( AKF00A7)**

**Local River : Musi**

**Division : Lower Krishna Divn., Hyderabad**

**Sub-Division : Lower Krishna SD 1, Miryalaguda**

| Day                   | Dec          |               |               |             |              |                   | Jan          |               |               |             |              |                   | Feb          |               |               |             |              |                   |
|-----------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                       | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1                     | 41.34        | 0.000         | 0.000         | 0.042       | 0.042        | 148               | 19.24        | 0.000         | 0.000         | 0.047       | 0.047        | 77                | 17.55        | 0.000         | 0.000         | 0.048       | 0.048        | 73                |
| 2                     | 40.40        | 0.000         | 0.000         | 0.042       | 0.042        | 145               | 21.11        | 0.000         | 0.000         | 0.045       | 0.045        | 83                | 19.80        | 0.000         | 0.000         | 0.046       | 0.046        | 79                |
| 3                     | 21.93        | 0.000         | 0.000         | 0.045       | 0.045        | 85                | 20.19        | 0.000         | 0.000         | 0.023       | 0.023        | 40                | 19.76        | 0.000         | 0.000         | 0.046       | 0.046        | 79                |
| 4                     | 28.73        | 0.000         | 0.000         | 0.042       | 0.042        | 105               | 21.67        | 0.000         | 0.000         | 0.045       | 0.045        | 84                | 22.17        | 0.000         | 0.000         | 0.045       | 0.045        | 86                |
| 5                     | 39.59        | 0.000         | 0.000         | 0.042       | 0.042        | 142               | 22.71        | 0.000         | 0.000         | 0.044       | 0.044        | 87                | 21.07        | 0.000         | 0.000         | 0.045       | 0.045        | 82                |
| 6                     | 39.51        | 0.000         | 0.000         | 0.040       | 0.040        | 135               | 22.63        | 0.000         | 0.000         | 0.045       | 0.045        | 87                | 19.77        | 0.000         | 0.000         | 0.046       | 0.046        | 79                |
| 7                     | 31.75        | 0.000         | 0.000         | 0.042       | 0.042        | 115               | 22.85        | 0.000         | 0.000         | 0.044       | 0.044        | 87                | 22.40        | 0.000         | 0.000         | 0.032       | 0.032        | 63                |
| 8                     | 18.92        | 0.000         | 0.000         | 0.047       | 0.047        | 77                | 22.83        | 0.000         | 0.000         | 0.044       | 0.044        | 88                | 22.87        | 0.000         | 0.000         | 0.044       | 0.044        | 88                |
| 9                     | 39.56        | 0.000         | 0.000         | 0.042       | 0.042        | 142               | 21.25        | 0.000         | 0.000         | 0.045       | 0.045        | 83                | 26.50        | 0.000         | 0.000         | 0.043       | 0.043        | 98                |
| 10                    | 30.39        | 0.000         | 0.000         | 0.042       | 0.042        | 111               | 18.25        | 0.000         | 0.000         | 0.026       | 0.026        | 41                | 27.54        | 0.000         | 0.000         | 0.043       | 0.043        | 102               |
| 11                    | 30.81        | 0.000         | 0.000         | 0.042       | 0.042        | 112               | 17.57        | 0.000         | 0.000         | 0.048       | 0.048        | 73                | 27.15        | 0.000         | 0.000         | 0.043       | 0.043        | 100               |
| 12                    | 30.33        | 0.000         | 0.000         | 0.042       | 0.042        | 110               | 17.45        | 0.000         | 0.000         | 0.048       | 0.048        | 73                | 27.95        | 0.000         | 0.000         | 0.043       | 0.043        | 103               |
| 13                    | 29.04        | 0.000         | 0.000         | 0.054       | 0.054        | 136               | 27.73        | 0.000         | 0.000         | 0.043       | 0.043        | 102               | 27.83        | 0.000         | 0.000         | 0.043       | 0.043        | 102               |
| 14                    | 29.51        | 0.000         | 0.000         | 0.042       | 0.042        | 108               | 177.6        | 0.000         | 0.000         | 0.068       | 0.068        | 1050              | 27.26        | 0.000         | 0.000         | 0.069       | 0.069        | 161               |
| 15                    | 17.44        | 0.000         | 0.000         | 0.048       | 0.048        | 72                | 91.71        | 0.000         | 0.000         | 0.049       | 0.049        | 388               | 26.80        | 0.000         | 0.000         | 0.043       | 0.043        | 99                |
| 16                    | 11.02        | 0.000         | 0.000         | 0.059       | 0.059        | 56                | 38.60        | 0.000         | 0.000         | 0.042       | 0.042        | 138               | 24.91        | 0.000         | 0.000         | 0.044       | 0.044        | 94                |
| 17                    | 7.713        | 0.000         | 0.000         | 0.073       | 0.073        | 49                | 474.5        | 0.000         | 0.000         | 0.141       | 0.141        | 5789              | 25.05        | 0.000         | 0.000         | 0.043       | 0.043        | 94                |
| 18                    | 37.16        | 0.000         | 0.000         | 0.042       | 0.042        | 133               | 248.4        | 0.000         | 0.000         | 0.085       | 0.085        | 1833              | 23.13        | 0.000         | 0.000         | 0.044       | 0.044        | 88                |
| 19                    | 27.83        | 0.000         | 0.000         | 0.043       | 0.043        | 102               | 126.6        | 0.000         | 0.000         | 0.057       | 0.057        | 619               | 22.27        | 0.000         | 0.000         | 0.045       | 0.045        | 86                |
| 20                    | 18.40        | 0.000         | 0.000         | 0.038       | 0.038        | 60                | 98.47        | 0.000         | 0.000         | 0.050       | 0.050        | 429               | 21.11        | 0.000         | 0.000         | 0.045       | 0.045        | 83                |
| 21                    | 14.76        | 0.000         | 0.000         | 0.051       | 0.051        | 66                | 84.47        | 0.000         | 0.000         | 0.048       | 0.048        | 347               | 21.33        | 0.000         | 0.000         | 0.042       | 0.042        | 76                |
| 22                    | 10.87        | 0.000         | 0.000         | 0.060       | 0.060        | 56                | 52.19        | 0.000         | 0.000         | 0.042       | 0.042        | 191               | 19.48        | 0.000         | 0.000         | 0.046       | 0.046        | 78                |
| 23                    | 11.39        | 0.000         | 0.000         | 0.058       | 0.058        | 57                | 32.96        | 0.000         | 0.000         | 0.042       | 0.042        | 119               | 20.87        | 0.000         | 0.000         | 0.045       | 0.045        | 82                |
| 24                    | 14.18        | 0.000         | 0.000         | 0.052       | 0.052        | 64                | 29.74        | 0.000         | 0.000         | 0.038       | 0.038        | 97                | 22.15        | 0.000         | 0.000         | 0.045       | 0.045        | 86                |
| 25                    | 15.54        | 0.000         | 0.000         | 0.050       | 0.050        | 68                | 28.17        | 0.000         | 0.000         | 0.043       | 0.043        | 103               | 25.09        | 0.000         | 0.000         | 0.043       | 0.043        | 94                |
| 26                    | 14.99        | 0.000         | 0.000         | 0.051       | 0.051        | 66                | 26.24        | 0.000         | 0.000         | 0.043       | 0.043        | 97                | 23.28        | 0.000         | 0.000         | 0.044       | 0.044        | 89                |
| 27                    | 17.52        | 0.000         | 0.000         | 0.017       | 0.017        | 26                | 23.73        | 0.000         | 0.000         | 0.044       | 0.044        | 90                | 24.70        | 0.000         | 0.000         | 0.044       | 0.044        | 93                |
| 28                    | 19.39        | 0.000         | 0.000         | 0.046       | 0.046        | 78                | 21.58        | 0.000         | 0.000         | 0.045       | 0.045        | 84                | 26.28        | 0.000         | 0.000         | 0.086       | 0.086        | 196               |
| 29                    | 19.01        | 0.000         | 0.000         | 0.047       | 0.047        | 77                | 19.58        | 0.000         | 0.000         | 0.046       | 0.046        | 78                |              |               |               |             |              |                   |
| 30                    | 20.03        | 0.000         | 0.000         | 0.046       | 0.046        | 80                | 14.99        | 0.000         | 0.000         | 0.051       | 0.051        | 66                |              |               |               |             |              |                   |
| 31                    | 19.59        | 0.000         | 0.000         | 0.046       | 0.046        | 78                | 16.79        | 0.000         | 0.000         | 0.033       | 0.033        | 47                |              |               |               |             |              |                   |
| <b>Ten Daily Mean</b> |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| <b>Ten Daily I</b>    | 33.21        | 0.000         | 0.000         | 0.042       | 0.042        | 120               | 21.27        | 0.000         | 0.000         | 0.041       | 0.041        | 76                | 21.94        | 0.000         | 0.000         | 0.044       | 0.044        | 83                |
| <b>Ten Daily II</b>   | 23.93        | 0.000         | 0.000         | 0.048       | 0.048        | 94                | 131.9        | 0.000         | 0.000         | 0.063       | 0.063        | 1049              | 25.35        | 0.000         | 0.000         | 0.046       | 0.046        | 101               |
| <b>Ten Daily III</b>  | 16.12        | 0.000         | 0.000         | 0.048       | 0.048        | 65                | 31.86        | 0.000         | 0.000         | 0.043       | 0.043        | 120               | 22.90        | 0.000         | 0.000         | 0.049       | 0.049        | 99                |
| <b>Monthly</b>        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| <b>Total</b>          |              |               |               |             |              | 2858              |              |               |               |             |              | 12572             |              |               |               |             |              | 2632              |

**Annual Sediment Load (Metric Tonnes) : 155387**

**Daily Observed Sediment Datasheet for period : 2021-2022**

**Station Name : DAMERCHERLA ( AKF00A7)**

**Local River : Musi**

**Division : Lower Krishna Divn., Hyderabad**

**Sub-Division : Lower Krishna SD 1, Miryalaguda**

| Day            | Mar          |               |               |             |              |                   | Apr          |               |               |             |              |                   | May          |               |               |             |              |                   |
|----------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1              | 28.93        | 0.000         | 0.000         | 0.042       | 0.042        | 106               | 23.49        | 0.000         | 0.000         | 0.044       | 0.044        | 90                | 5.947        | 0.000         | 0.000         | 0.087       | 0.087        | 45                |
| 2              | 27.91        | 0.000         | 0.000         | 0.043       | 0.043        | 103               | 23.05        | 0.000         | 0.000         | 0.044       | 0.044        | 88                | 6.415        | 0.000         | 0.000         | 0.116       | 0.116        | 64                |
| 3              | 29.35        | 0.000         | 0.000         | 0.042       | 0.042        | 107               | 23.22        | 0.000         | 0.000         | 0.044       | 0.044        | 89                | 6.343        | 0.000         | 0.000         | 0.083       | 0.083        | 46                |
| 4              | 29.68        | 0.000         | 0.000         | 0.042       | 0.042        | 108               | 22.04        | 0.000         | 0.000         | 0.011       | 0.011        | 21                | 6.465        | 0.000         | 0.000         | 0.082       | 0.082        | 46                |
| 5              | 29.04        | 0.000         | 0.000         | 0.042       | 0.042        | 106               | 21.62        | 0.000         | 0.000         | 0.045       | 0.045        | 84                | 6.961        | 0.000         | 0.000         | 0.078       | 0.078        | 47                |
| 6              | 29.48        | 0.000         | 0.000         | 0.042       | 0.042        | 108               | 20.47        | 0.000         | 0.000         | 0.046       | 0.046        | 81                | 7.320        | 0.000         | 0.000         | 0.076       | 0.076        | 48                |
| 7              | 31.20        | 0.000         | 0.000         | 0.058       | 0.058        | 155               | 20.05        | 0.000         | 0.000         | 0.046       | 0.046        | 80                | 8.149        | 0.000         | 0.000         | 0.071       | 0.071        | 50                |
| 8              | 31.44        | 0.000         | 0.000         | 0.042       | 0.042        | 114               | 19.80        | 0.000         | 0.000         | 0.046       | 0.046        | 79                | 6.562        | 0.000         | 0.000         | 0.082       | 0.082        | 46                |
| 9              | 29.49        | 0.000         | 0.000         | 0.042       | 0.042        | 108               | 19.42        | 0.000         | 0.000         | 0.046       | 0.046        | 78                | 6.735        | 0.000         | 0.000         | 0.197       | 0.197        | 115               |
| 10             | 28.31        | 0.000         | 0.000         | 0.043       | 0.043        | 104               | 18.49        | 0.000         | 0.000         | 0.047       | 0.047        | 75                | 5.969        | 0.000         | 0.000         | 0.087       | 0.087        | 45                |
| 11             | 27.38        | 0.000         | 0.000         | 0.043       | 0.043        | 101               | 15.36        | 0.000         | 0.000         | 0.057       | 0.057        | 76                | 5.563        | 0.000         | 0.000         | 0.092       | 0.092        | 44                |
| 12             | 29.86        | 0.000         | 0.000         | 0.042       | 0.042        | 109               | 14.78        | 0.000         | 0.000         | 0.051       | 0.051        | 66                | 6.070        | 0.000         | 0.000         | 0.086       | 0.086        | 45                |
| 13             | 29.48        | 0.000         | 0.000         | 0.042       | 0.042        | 108               | 14.80        | 0.000         | 0.000         | 0.051       | 0.051        | 66                | 6.010        | 0.000         | 0.000         | 0.087       | 0.087        | 45                |
| 14             | 31.50        | 0.000         | 0.000         | 0.038       | 0.038        | 102               | 13.44        | 0.000         | 0.000         | 0.054       | 0.054        | 62                | 6.651        | 0.000         | 0.000         | 0.081       | 0.081        | 46                |
| 15             | 29.75        | 0.000         | 0.000         | 0.042       | 0.042        | 108               | 13.44        | 0.000         | 0.000         | 0.054       | 0.054        | 62                | 5.947        | 0.000         | 0.000         | 0.087       | 0.087        | 45                |
| 16             | 31.25        | 0.000         | 0.000         | 0.042       | 0.042        | 113               | 12.05        | 0.000         | 0.000         | 0.057       | 0.057        | 59                | 6.138        | 0.000         | 0.000         | 0.085       | 0.085        | 45                |
| 17             | 29.43        | 0.000         | 0.000         | 0.042       | 0.042        | 108               | 12.95        | 0.000         | 0.000         | 0.055       | 0.055        | 61                | 5.902        | 0.000         | 0.000         | 0.064       | 0.064        | 33                |
| 18             | 31.19        | 0.000         | 0.000         | 0.042       | 0.042        | 113               | 10.95        | 0.000         | 0.000         | 0.061       | 0.061        | 58                | 4.912        | 0.000         | 0.000         | 0.101       | 0.101        | 43                |
| 19             | 31.88        | 0.000         | 0.000         | 0.042       | 0.042        | 115               | 10.95        | 0.000         | 0.000         | 0.059       | 0.059        | 56                | 5.133        | 0.000         | 0.000         | 0.097       | 0.097        | 43                |
| 20             | 30.33        | 0.000         | 0.000         | 0.042       | 0.042        | 110               | 11.24        | 0.000         | 0.000         | 0.059       | 0.059        | 57                | 5.332        | 0.000         | 0.000         | 0.095       | 0.095        | 44                |
| 21             | 27.94        | 0.000         | 0.000         | 0.032       | 0.032        | 77                | 10.22        | 0.000         | 0.000         | 0.062       | 0.062        | 54                | 5.268        | 0.000         | 0.000         | 0.095       | 0.095        | 43                |
| 22             | 26.81        | 0.000         | 0.000         | 0.043       | 0.043        | 99                | 8.765        | 0.000         | 0.000         | 0.068       | 0.068        | 51                | 4.935        | 0.000         | 0.000         | 0.100       | 0.100        | 43                |
| 23             | 23.74        | 0.000         | 0.000         | 0.044       | 0.044        | 90                | 7.621        | 0.000         | 0.000         | 0.074       | 0.074        | 49                | 4.564        | 0.000         | 0.000         | 0.186       | 0.186        | 73                |
| 24             | 23.95        | 0.000         | 0.000         | 0.044       | 0.044        | 91                | 6.562        | 0.000         | 0.000         | 0.082       | 0.082        | 46                | 3.970        | 0.000         | 0.000         | 0.119       | 0.119        | 41                |
| 25             | 25.75        | 0.000         | 0.000         | 0.043       | 0.043        | 96                | 6.340        | 0.000         | 0.000         | 0.063       | 0.063        | 35                | 4.014        | 0.000         | 0.000         | 0.118       | 0.118        | 41                |
| 26             | 25.46        | 0.000         | 0.000         | 0.043       | 0.043        | 95                | 5.136        | 0.000         | 0.000         | 0.097       | 0.097        | 43                | 3.990        | 0.000         | 0.000         | 0.118       | 0.118        | 41                |
| 27             | 25.46        | 0.000         | 0.000         | 0.043       | 0.043        | 95                | 6.367        | 0.000         | 0.000         | 0.083       | 0.083        | 46                | 4.393        | 0.000         | 0.000         | 0.109       | 0.109        | 42                |
| 28             | 25.06        | 0.000         | 0.000         | 0.038       | 0.038        | 81                | 6.348        | 0.000         | 0.000         | 0.083       | 0.083        | 46                | 3.769        | 0.000         | 0.000         | 0.124       | 0.124        | 40                |
| 29             | 24.87        | 0.000         | 0.000         | 0.044       | 0.044        | 93                | 5.615        | 0.000         | 0.000         | 0.091       | 0.091        | 44                | 4.935        | 0.000         | 0.000         | 0.100       | 0.100        | 43                |
| 30             | 23.35        | 0.000         | 0.000         | 0.044       | 0.044        | 89                | 6.265        | 0.000         | 0.000         | 0.084       | 0.084        | 46                | 4.384        | 0.000         | 0.000         | 0.075       | 0.075        | 28                |
| 31             | 23.26        | 0.000         | 0.000         | 0.044       | 0.044        | 89                |              |               |               |             |              |                   | 4.923        | 0.000         | 0.000         | 0.100       | 0.100        | 43                |
| Ten Daily Mean |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Ten Daily I    | 29.48        | 0.000         | 0.000         | 0.044       | 0.044        | 112               | 21.17        | 0.000         | 0.000         | 0.042       | 0.042        | 76                | 6.687        | 0.000         | 0.000         | 0.096       | 0.096        | 55                |
| Ten Daily II   | 30.21        | 0.000         | 0.000         | 0.042       | 0.042        | 109               | 13.00        | 0.000         | 0.000         | 0.056       | 0.056        | 62                | 5.766        | 0.000         | 0.000         | 0.087       | 0.087        | 43                |
| Ten Daily III  | 25.06        | 0.000         | 0.000         | 0.042       | 0.042        | 91                | 6.923        | 0.000         | 0.000         | 0.079       | 0.079        | 46                | 4.467        | 0.000         | 0.000         | 0.113       | 0.113        | 43                |
| Monthly        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Total          |              |               |               |             |              | 3204              |              |               |               |             |              | 1846              |              |               |               |             |              | 1461              |

**Annual Sediment Load (Metric Tonnes) : 155387**

**Annual Sediment Load for period : 2014-2022****Station Name : DAMERCHERLA ( AKF00A7)****Division : Lower Krishna Divn., Hyderabad****Local River : Musi****Sub-Division : Lower Krishna SD 1, Miryalaguda**

| Year      | Monsoon<br>(M.T.) | Non-Monsoon<br>(M.T.) | Annual Load<br>(M.T.) | Annual Run Off<br>(MCM) |
|-----------|-------------------|-----------------------|-----------------------|-------------------------|
| 2014-2015 | 16363             | 5123                  | 21486                 | 704                     |
| 2015-2016 | 2219              | 7                     | 2226                  | 149                     |
| 2016-2017 | 57045             | 391                   | 57435                 | 1032                    |
| 2017-2018 | 21460             | 24990                 | 46449                 | 872                     |
| 2018-2019 | 20079             | 4456                  | 24534                 | 347                     |
| 2019-2020 | 25261             | 6894                  | 32155                 | 948                     |
| 2020-2021 | 35359             | 16521                 | 51880                 | 2919                    |
| 2021-2022 | 130814            | 24573                 | 155387                | 2988                    |



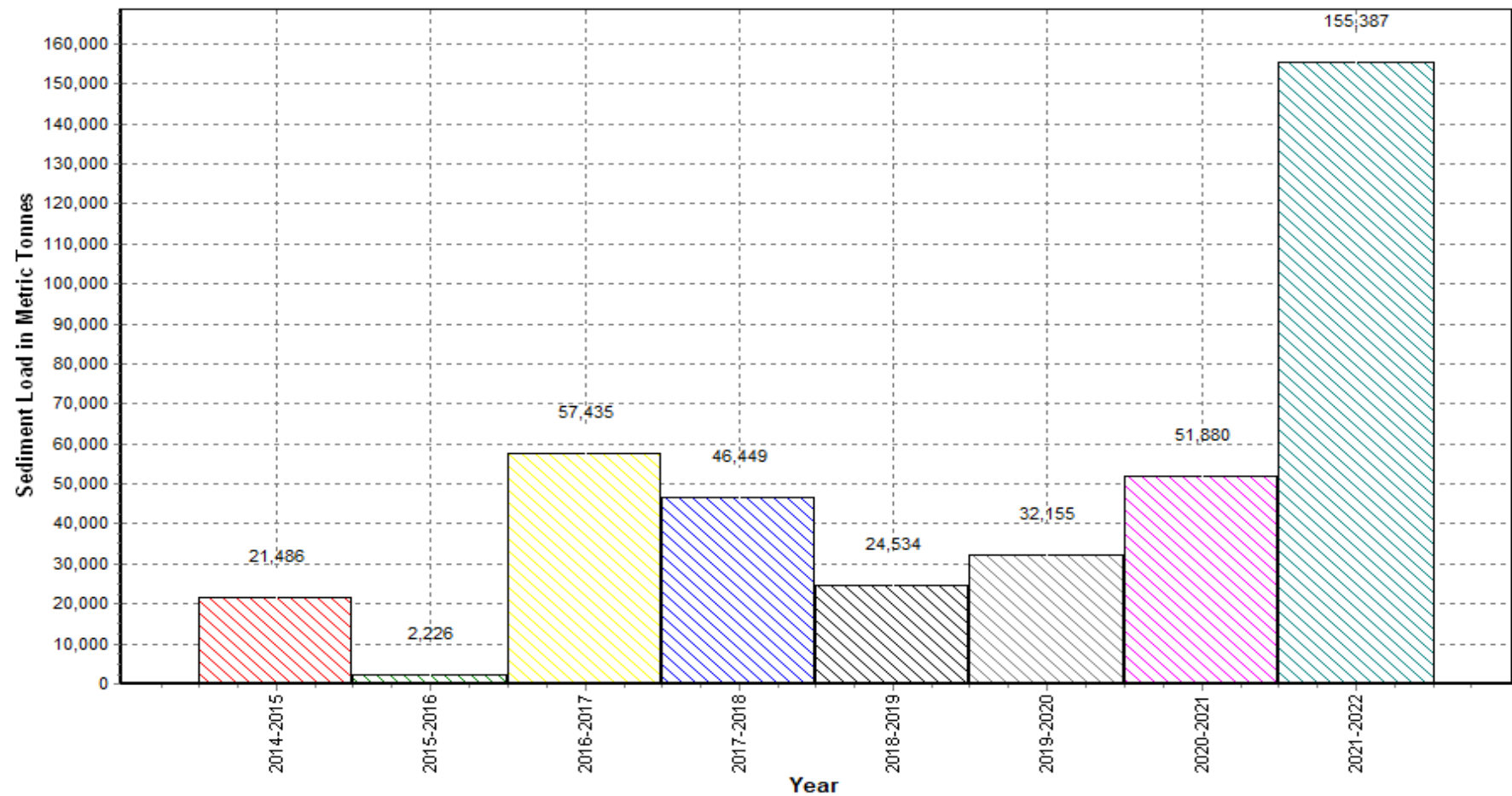
Annual Sediment Load for the period: 2014-2022

Station Name : DAMERCHERLA ( AKF00A7)

Local River : Musi

Division : Lower Krishna Divn., Hyderabad

Sub-Division : Lower Krishna SD 1, Miryalaguda



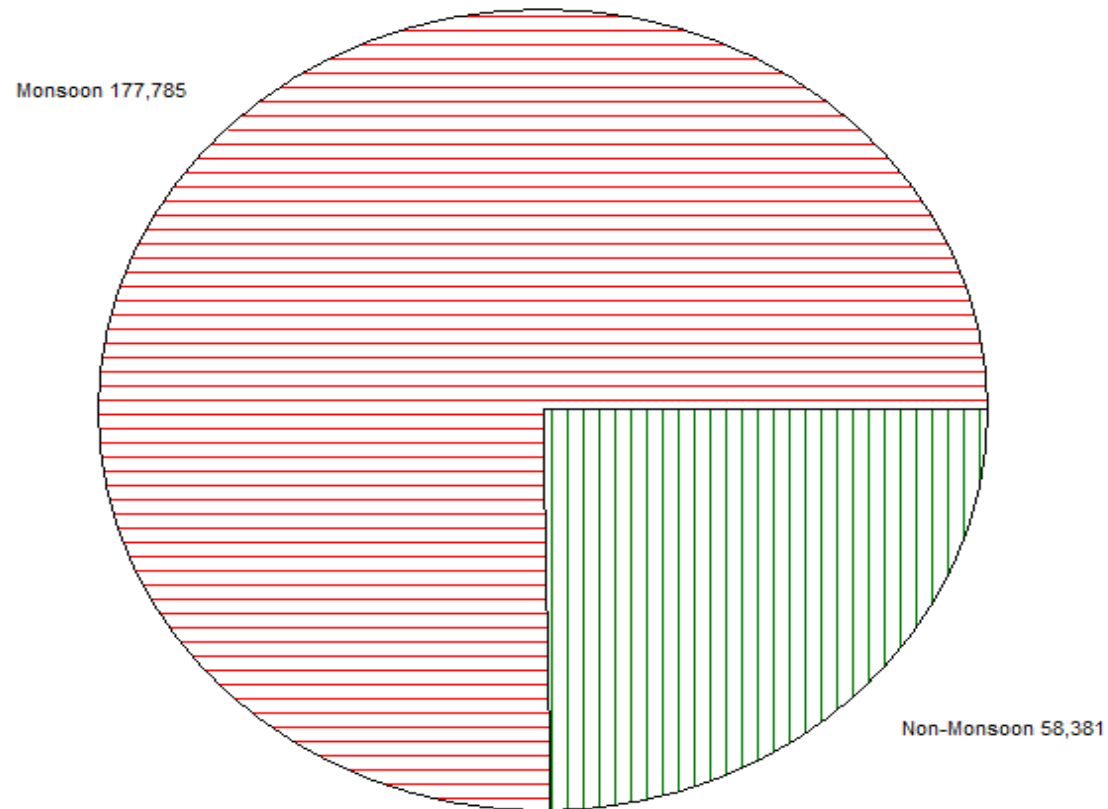
Seasonal Sediment Load for the period : 2014-2021

Station Name : DAMERCHERLA ( AKF00A7)

Local River : Musi

Division : Lower Krishna Divn., Hyderabad

Sub-Division : Lower Krishna SD 1, Miryalaguda



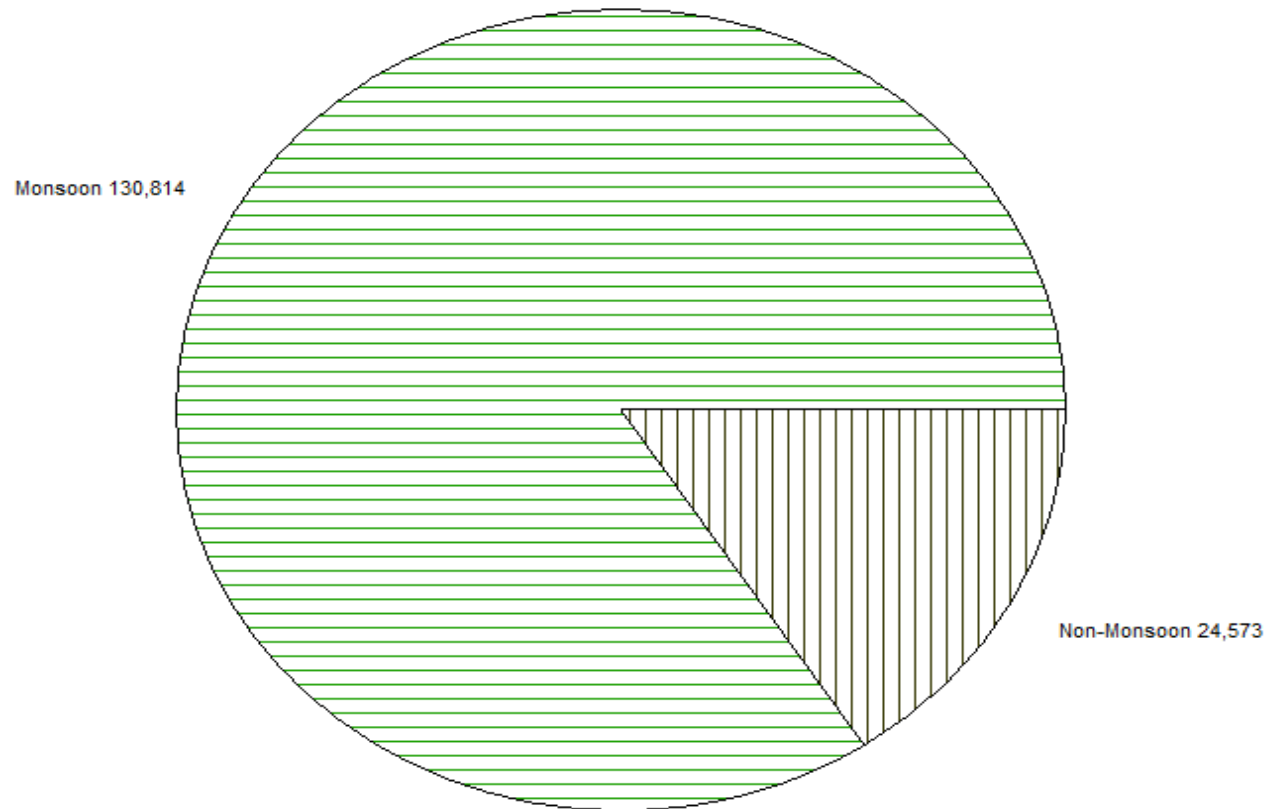
Seasonal Sediment Load for the Year: 2021-2022

Station Name : DAMERCHERLA ( AKF00A7)

Local River : Musi

Division : Lower Krishna Divn., Hyderabad

Sub-Division : Lower Krishna SD 1, Miryalaguda



**BED MATERIAL ANALYSIS DATA FOR THE YEAR 2021-22**

SITE : MUSI AT DAMERCHERLA CODE : AKF00A7  
 MEASURING : LKDN CROSS SECTION : Station gauge line  
 AUTHORITY

**Premonsoon Survey ( Date 08-06-2021 )**

Discharge Observed : 4.914 cumec Water edge RB 93.00 m LB : 240.00 m  
 Area of section : 115.03 sq.m MeanVelocit : 0.0427 m/sec  
 Wetted perimeter : 147.08 Hydraulic Mean Depth : 0.7821 m

| Sl. No | R.D.of sampling point in meters | R.L. of bed in meters | Mean diameter in mm | Remarks                               |
|--------|---------------------------------|-----------------------|---------------------|---------------------------------------|
| 1      | 70                              | 56.325                | 1.18                |                                       |
| 2      | 140                             | 54.250                | 1.37                | Av.mean                               |
| 3      | 210                             | 54.445                | 2.02                | dia "m" = <b>1.02</b>                 |
| 4      | 280                             | 57.695                | 0.26                | Silt factor                           |
| 5      | 350                             | 63.010                | 0.29                | "f" =1.76 $\sqrt{m}$<br>= <b>1.78</b> |

**Note :** i. Discharge observation was at station gauge line.  
 ii. River bed : Flowing water.

**Monsoon Survey ( Date 27-12-2021 )**

Discharge Observed : 17.52 cumec Water edge RB 45.00 m LB : 275.00 m  
 Area of section : 531.73 sq.m MeanVelocit : 0.0329 m/sec  
 Wetted perimeter : 230.24 Hydraulic Mean Depth : 2.3095 m

| Sl. No | R.D.of sampling point in meters | R.L. of bed in meters | Mean diameter in mm | Remarks                               |
|--------|---------------------------------|-----------------------|---------------------|---------------------------------------|
| 1      | 70                              | 56.450                | 0.56                |                                       |
| 2      | 140                             | 54.380                | 0.91                | Av.mean                               |
| 3      | 210                             | 54.560                | 1.06                | dia "m" = <b>0.84</b>                 |
| 4      | 280                             | 57.760                | 0.51                | Silt factor                           |
| 5      | 350                             | 63.040                | 1.14                | "f" =1.76 $\sqrt{m}$<br>= <b>1.61</b> |

**Note :** i. Discharge observation was at station gauge line.  
 ii. River bed : Flowing water.

**Postmonsoon Survey ( Date 24-01-2022 )**

Discharge Observed : 29.74 cumec Water edge RB 44.00 m LB : 276.00 m  
 Area of section : 551.13 sq.m MeanVelocit : 0.0540 m/sec  
 Wetted perimeter : 232.24 Hydraulic Mean Depth : 2.3731 m

| Sl. No | R.D.of sampling point in meters | R.L. of bed in meters | Mean diameter in mm | Remarks                               |
|--------|---------------------------------|-----------------------|---------------------|---------------------------------------|
| 1      | 70                              | 56.610                | 0.28                |                                       |
| 2      | 140                             | 54.200                | 0.28                | Av.mean                               |
| 3      | 210                             | 54.710                | 0.27                | dia "m" = <b>0.29</b>                 |
| 4      | 280                             | 57.740                | 0.31                | Silt factor                           |
| 5      | 350                             | 63.150                | 0.30                | "f" =1.76 $\sqrt{m}$<br>= <b>0.94</b> |

**Note :** i. Discharge observation was at station gauge line.  
 ii. River bed : Flowing water.

## HISTORY SHEET

|                          |                                  |                   |                                 |
|--------------------------|----------------------------------|-------------------|---------------------------------|
|                          |                                  | <b>Water Year</b> | <b>: 2021-2022</b>              |
| <b>Site</b>              | <b>: Wadenapally</b>             | <b>Code</b>       | <b>: AK000D5</b>                |
| State                    | : Andhra Pradesh                 | District          | Nalgonda                        |
| Basin                    | : Krishna                        | Independent River | : Krishna                       |
| Tributary                | : -                              | Sub Tributary     | : -                             |
| Sub-Sub Tributary        | : -                              | Local River       | : Krishna                       |
| Division                 | : Lower Krishna Divn., Hyderabad | Sub-Division      | : Lower Krishna SD2, Vijayawada |
| Drainage Area            | : 235544 Sq. Km.                 | Bank              | : Left                          |
| Latitude                 | : 16°47'39"                      | Longitude         | : 80°04'23"                     |
| <b>Zero of Gauge (m)</b> | : 22.054 (m.s.l)                 | 01-01-1964        | - 31-12-1999                    |
|                          | : 22.054 (m.s.l)                 | 01-01-2000        | -                               |
|                          | Opening Date                     | Closing Date      |                                 |
| Gauge                    | : 27-05-1964                     |                   |                                 |
| Discharge                | : 10-12-1964                     |                   |                                 |
| Sediment                 | : 01-12-1966                     |                   |                                 |
| Water Quality            | : 01-01-1972                     |                   |                                 |

**Daily Observed Sediment Datasheet for period : 2021-2022**

Station Name : Wadenapally ( AK000D5)

Local River : Krishna

Division : Lower Krishna Divn., Hyderabad

Sub-Division : Lower Krishna SD2, Vijayawada

| Day                   | Jun          |               |               |             |              |                   | Jul          |               |               |             |              |                   | Aug          |               |               |             |              |                   |
|-----------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                       | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1                     | 16.99        | 0.000         | 0.000         | 0.002       | 0.002        | 3                 | 196.0        | 0.000         | 0.000         | 0.003       | 0.003        | 47                | 807.2        | 0.000         | 0.000         | 0.030       | 0.030        | 2099              |
| 2                     | 17.12        | 0.000         | 0.000         | 0.002       | 0.002        | 3                 | 206.0        | 0.000         | 0.000         | 0.003       | 0.003        | 46                | 9992         | 0.000         | 0.000         | 0.019       | 0.019        | 16145             |
| 3                     | 17.62        | 0.000         | 0.000         | 0.002       | 0.002        | 4                 | 204.4        | 0.000         | 0.000         | 0.002       | 0.002        | 42                | 6918         | 0.000         | 0.000         | 0.019       | 0.019        | 11417             |
| 4                     | 18.24        | 0.000         | 0.000         | 0.002       | 0.002        | 3                 | 139.4        | 0.000         | 0.000         | 0.005       | 0.005        | 64                | 1363         | 0.000         | 0.000         | 0.014       | 0.014        | 1637              |
| 5                     | 17.61        | 0.000         | 0.000         | 0.002       | 0.002        | 3                 | 127.7        | 0.000         | 0.000         | 0.003       | 0.003        | 30                | 4424         | 0.000         | 0.000         | 0.011       | 0.011        | 4281              |
| 6                     | 19.25        | 0.000         | 0.000         | 0.010       | 0.010        | 16                | 205.3        | 0.000         | 0.000         | 0.003       | 0.003        | 55                | 13848        | 0.000         | 0.000         | 0.006       | 0.006        | 7059              |
| 7                     | 18.03        | 0.000         | 0.000         | 0.002       | 0.002        | 3                 | 211.1        | 0.000         | 0.000         | 0.003       | 0.003        | 60                | 1158         | 0.000         | 0.000         | 0.006       | 0.006        | 580               |
| 8                     | 17.76        | 0.000         | 0.000         | 0.002       | 0.002        | 2                 | 209.2        | 0.000         | 0.000         | 0.003       | 0.003        | 60                | 47.86        | 0.000         | 0.000         | 0.217       | 0.217        | 898               |
| 9                     | 17.38        | 0.000         | 0.000         | 0.002       | 0.002        | 3                 | 307.6        | 0.000         | 0.000         | 0.003       | 0.003        | 85                | 390.4        | 0.000         | 0.000         | 0.014       | 0.014        | 476               |
| 10                    | 16.70        | 0.000         | 0.000         | 0.002       | 0.002        | 3                 | 192.2        | 0.000         | 0.000         | 0.003       | 0.003        | 56                | 584.3        | 0.000         | 0.000         | 0.014       | 0.014        | 682               |
| 11                    | 10.29        | 0.000         | 0.000         | 0.002       | 0.002        | 1                 | 74.03        | 0.000         | 0.000         | 0.006       | 0.006        | 38                | 631.1        | 0.000         | 0.000         | 0.008       | 0.008        | 409               |
| 12                    | 9.107        | 0.000         | 0.000         | 0.002       | 0.002        | 1                 | 109.2        | 0.000         | 0.000         | 0.004       | 0.004        | 35                | 485.0        | 0.000         | 0.000         | 0.007       | 0.007        | 293               |
| 13                    | 10.29        | 0.000         | 0.000         | 0.014       | 0.014        | 13                | 22.73        | 0.000         | 0.000         | 0.004       | 0.004        | 7                 | 482.7        | 0.000         | 0.000         | 0.005       | 0.005        | 188               |
| 14                    | 9.038        | 0.000         | 0.000         | 0.002       | 0.002        | 1                 | 10.16        | 0.000         | 0.000         | 0.004       | 0.004        | 3                 | 2202         | 0.000         | 0.000         | 0.003       | 0.003        | 647               |
| 15                    | 9.304        | 0.000         | 0.000         | 0.001       | 0.001        | 1                 | 12.56        | 0.000         | 0.000         | 0.003       | 0.003        | 4                 | 606.1        | 0.000         | 0.000         | 0.034       | 0.034        | 1780              |
| 16                    | 9.007        | 0.000         | 0.000         | 0.002       | 0.002        | 1                 | 19.25        | 0.000         | 0.000         | 0.003       | 0.003        | 6                 | 2139         | 0.000         | 0.000         | 0.013       | 0.013        | 2310              |
| 17                    | 9.196        | 0.000         | 0.000         | 0.002       | 0.002        | 2                 | 19.25        | 0.000         | 0.000         | 0.004       | 0.004        | 6                 | 1204         | 0.000         | 0.000         | 0.002       | 0.002        | 198               |
| 18                    | 9.011        | 0.000         | 0.000         | 0.002       | 0.002        | 1                 | 71.16        | 0.000         | 0.000         | 0.006       | 0.006        | 37                | 1261         | 0.000         | 0.000         | 0.021       | 0.021        | 2310              |
| 19                    | 9.035        | 0.000         | 0.000         | 0.002       | 0.002        | 1                 | 179.5        | 0.000         | 0.000         | 0.003       | 0.003        | 53                | 220.0        | 0.000         | 0.000         | 0.022       | 0.022        | 420               |
| 20                    | 10.29        | 0.000         | 0.000         | 0.014       | 0.014        | 13                | 159.6        | 0.000         | 0.000         | 0.003       | 0.003        | 45                | 198.4        | 0.000         | 0.000         | 0.066       | 0.066        | 1136              |
| 21                    | 9.007        | 0.000         | 0.000         | 0.002       | 0.002        | 2                 | 143.4        | 0.000         | 0.000         | 0.005       | 0.005        | 66                | 425.2        | 0.000         | 0.000         | 0.017       | 0.017        | 606               |
| 22                    | 9.126        | 0.000         | 0.000         | 0.002       | 0.002        | 2                 | 193.9        | 0.000         | 0.000         | 0.004       | 0.004        | 62                | 855.8        | 0.000         | 0.000         | 0.030       | 0.030        | 2181              |
| 23                    | 9.167        | 0.000         | 0.000         | 0.002       | 0.002        | 2                 | 1465         | 0.000         | 0.000         | 0.003       | 0.003        | 354               | 391.5        | 0.000         | 0.000         | 0.017       | 0.017        | 568               |
| 24                    | 9.095        | 0.000         | 0.000         | 0.002       | 0.002        | 2                 | 1000.0       | 0.000         | 0.000         | 0.003       | 0.003        | 294               | 894.8        | 0.000         | 0.000         | 0.010       | 0.010        | 773               |
| 25                    | 9.110        | 0.000         | 0.000         | 0.002       | 0.002        | 2                 | 525.9        | 0.000         | 0.000         | 0.005       | 0.005        | 218               | 998.0        | 0.000         | 0.000         | 0.010       | 0.010        | 845               |
| 26                    | 9.307        | 0.000         | 0.000         | 0.002       | 0.002        | 2                 | 334.1        | 0.000         | 0.000         | 0.003       | 0.003        | 89                | 984.6        | 0.000         | 0.000         | 0.013       | 0.013        | 1106              |
| 27                    | 10.29        | 0.000         | 0.000         | 0.014       | 0.014        | 13                | 287.3        | 0.000         | 0.000         | 0.003       | 0.003        | 84                | 1067         | 0.000         | 0.000         | 0.012       | 0.012        | 1134              |
| 28                    | 9.197        | 0.000         | 0.000         | 0.002       | 0.002        | 2                 | 133.5        | 0.000         | 0.000         | 0.004       | 0.004        | 50                | 1256         | 0.000         | 0.000         | 0.012       | 0.012        | 1259              |
| 29                    | 9.325        | 0.000         | 0.000         | 0.003       | 0.003        | 2                 | 133.5        | 0.000         | 0.000         | 0.004       | 0.004        | 42                | 1206         | 0.000         | 0.000         | 0.026       | 0.026        | 2730              |
| 30                    | 70.47        | 0.000         | 0.000         | 0.002       | 0.002        | 15                | 785.4        | 0.000         | 0.000         | 0.006       | 0.006        | 387               | 1018         | 0.000         | 0.000         | 0.013       | 0.013        | 1100              |
| 31                    |              |               |               |             |              |                   | 880.6        | 0.000         | 0.000         | 0.006       | 0.006        | 441               | 1314         | 0.000         | 0.000         | 0.012       | 0.012        | 1305              |
| <b>Ten Daily Mean</b> |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| <b>Ten Daily I</b>    | 17.67        | 0.000         | 0.000         | 0.003       | 0.003        | 4                 | 199.9        | 0.000         | 0.000         | 0.003       | 0.003        | 55                | 3953         | 0.000         | 0.000         | 0.035       | 0.035        | 4527              |
| <b>Ten Daily II</b>   | 9.455        | 0.000         | 0.000         | 0.004       | 0.004        | 4                 | 67.74        | 0.000         | 0.000         | 0.004       | 0.004        | 23                | 943.0        | 0.000         | 0.000         | 0.018       | 0.018        | 969               |
| <b>Ten Daily III</b>  | 15.41        | 0.000         | 0.000         | 0.003       | 0.003        | 4                 | 534.7        | 0.000         | 0.000         | 0.004       | 0.004        | 190               | 946.5        | 0.000         | 0.000         | 0.015       | 0.015        | 1237              |
| <b>Monthly</b>        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| <b>Total</b>          |              |               |               |             |              | 120               |              |               |               |             |              | 2867              |              |               |               |             |              | 68573             |

Annual Sediment Load (Metric Tonnes) : 187031

**Daily Observed Sediment Datasheet for period : 2021-2022**

**Station Name : Wadenapally ( AK000D5)**

**Local River : Krishna**

**Division : Lower Krishna Divn., Hyderabad**

**Sub-Division : Lower Krishna SD2, Vijayawada**

| Day                   | Sep          |               |               |             |              |                   | Oct          |               |               |             |              |                   | Nov          |               |               |             |              |                   |
|-----------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                       | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1                     | 1439         | 0.000         | 0.000         | 0.006       | 0.006        | 746               | 2494         | 0.000         | 0.000         | 0.012       | 0.012        | 2564              | 1201         | 0.000         | 0.000         | 0.010       | 0.010        | 986               |
| 2                     | 2137         | 0.000         | 0.000         | 0.009       | 0.009        | 1625              | 2146         | 0.000         | 0.000         | 0.009       | 0.009        | 1724              | 2014         | 0.000         | 0.000         | 0.007       | 0.007        | 1201              |
| 3                     | 994.1        | 0.000         | 0.000         | 0.007       | 0.007        | 593               | 1222         | 0.000         | 0.000         | 0.009       | 0.009        | 993               | 1195         | 0.000         | 0.000         | 0.009       | 0.009        | 919               |
| 4                     | 1379         | 0.000         | 0.000         | 0.013       | 0.013        | 1584              | 1373         | 0.000         | 0.000         | 0.010       | 0.010        | 1198              | 1423         | 0.000         | 0.000         | 0.009       | 0.009        | 1156              |
| 5                     | 1120         | 0.000         | 0.000         | 0.027       | 0.027        | 2593              | 1542         | 0.000         | 0.000         | 0.010       | 0.010        | 1266              | 971.0        | 0.000         | 0.000         | 0.006       | 0.006        | 537               |
| 6                     | 563.9        | 0.000         | 0.000         | 0.016       | 0.016        | 789               | 1877         | 0.000         | 0.000         | 0.009       | 0.009        | 1476              | 915.2        | 0.000         | 0.000         | 0.008       | 0.008        | 664               |
| 7                     | 1362         | 0.000         | 0.000         | 0.009       | 0.009        | 1000              | 1066         | 0.000         | 0.000         | 0.009       | 0.009        | 857               | 967.6        | 0.000         | 0.000         | 0.009       | 0.009        | 786               |
| 8                     | 837.5        | 0.000         | 0.000         | 0.023       | 0.023        | 1693              | 1798         | 0.000         | 0.000         | 0.010       | 0.010        | 1569              | 895.8        | 0.000         | 0.000         | 0.010       | 0.010        | 735               |
| 9                     | 1097         | 0.000         | 0.000         | 0.009       | 0.009        | 853               | 1449         | 0.000         | 0.000         | 0.009       | 0.009        | 1177              | 875.9        | 0.000         | 0.000         | 0.007       | 0.007        | 545               |
| 10                    | 606.1        | 0.000         | 0.000         | 0.034       | 0.034        | 1780              | 1449         | 0.000         | 0.000         | 0.009       | 0.009        | 1177              | 1194         | 0.000         | 0.000         | 0.007       | 0.007        | 743               |
| 11                    | 691.9        | 0.000         | 0.000         | 0.032       | 0.032        | 1919              | 2884         | 0.000         | 0.000         | 0.009       | 0.009        | 2218              | 1156         | 0.000         | 0.000         | 0.007       | 0.007        | 679               |
| 12                    | 350.4        | 0.000         | 0.000         | 0.046       | 0.046        | 1378              | 4432         | 0.000         | 0.000         | 0.010       | 0.010        | 3638              | 1009         | 0.000         | 0.000         | 0.010       | 0.010        | 871               |
| 13                    | 362.8        | 0.000         | 0.000         | 0.008       | 0.008        | 244               | 3924         | 0.000         | 0.000         | 0.010       | 0.010        | 3255              | 799.5        | 0.000         | 0.000         | 0.009       | 0.009        | 649               |
| 14                    | 879.9        | 0.000         | 0.000         | 0.008       | 0.008        | 608               | 1875         | 0.000         | 0.000         | 0.009       | 0.009        | 1474              | 799.5        | 0.000         | 0.000         | 0.009       | 0.009        | 649               |
| 15                    | 1010         | 0.000         | 0.000         | 0.004       | 0.004        | 349               | 1785         | 0.000         | 0.000         | 0.009       | 0.009        | 1450              | 415.9        | 0.000         | 0.000         | 0.010       | 0.010        | 349               |
| 16                    | 1006         | 0.000         | 0.000         | 0.007       | 0.007        | 582               | 1863         | 0.000         | 0.000         | 0.009       | 0.009        | 1464              | 352.7        | 0.000         | 0.000         | 0.009       | 0.009        | 283               |
| 17                    | 2304         | 0.000         | 0.000         | 0.010       | 0.010        | 2031              | 1387         | 0.000         | 0.000         | 0.009       | 0.009        | 1127              | 220.1        | 0.000         | 0.000         | 0.012       | 0.012        | 224               |
| 18                    | 1553         | 0.000         | 0.000         | 0.012       | 0.012        | 1556              | 1336         | 0.000         | 0.000         | 0.010       | 0.010        | 1097              | 188.2        | 0.000         | 0.000         | 0.009       | 0.009        | 145               |
| 19                    | 606.1        | 0.000         | 0.000         | 0.034       | 0.034        | 1780              | 1598         | 0.000         | 0.000         | 0.009       | 0.009        | 1298              | 167.8        | 0.000         | 0.000         | 0.010       | 0.010        | 145               |
| 20                    | 1224         | 0.000         | 0.000         | 0.010       | 0.010        | 1068              | 2007         | 0.000         | 0.000         | 0.009       | 0.009        | 1613              | 20.49        | 0.000         | 0.000         | 0.012       | 0.012        | 22                |
| 21                    | 1587         | 0.000         | 0.000         | 0.009       | 0.009        | 1234              | 1273         | 0.000         | 0.000         | 0.010       | 0.010        | 1078              | 32.11        | 0.000         | 0.000         | 0.013       | 0.013        | 36                |
| 22                    | 1421         | 0.000         | 0.000         | 0.010       | 0.010        | 1228              | 1525         | 0.000         | 0.000         | 0.010       | 0.010        | 1251              | 16.61        | 0.000         | 0.000         | 0.008       | 0.008        | 11                |
| 23                    | 1459         | 0.000         | 0.000         | 0.010       | 0.010        | 1235              | 1007         | 0.000         | 0.000         | 0.010       | 0.010        | 887               | 12.01        | 0.000         | 0.000         | 0.012       | 0.012        | 12                |
| 24                    | 2158         | 0.000         | 0.000         | 0.010       | 0.010        | 1865              | 979.0        | 0.000         | 0.000         | 0.009       | 0.009        | 795               | 13.34        | 0.000         | 0.000         | 0.014       | 0.014        | 16                |
| 25                    | 1872         | 0.000         | 0.000         | 0.006       | 0.006        | 890               | 949.4        | 0.000         | 0.000         | 0.009       | 0.009        | 738               | 13.12        | 0.000         | 0.000         | 0.013       | 0.013        | 14                |
| 26                    | 1651         | 0.000         | 0.000         | 0.024       | 0.024        | 3437              | 1009         | 0.000         | 0.000         | 0.012       | 0.012        | 1002              | 12.86        | 0.000         | 0.000         | 0.015       | 0.015        | 16                |
| 27                    | 2057         | 0.000         | 0.000         | 0.011       | 0.011        | 2008              | 1479         | 0.000         | 0.000         | 0.010       | 0.010        | 1252              | 12.87        | 0.000         | 0.000         | 0.015       | 0.015        | 16                |
| 28                    | 2377         | 0.000         | 0.000         | 0.012       | 0.012        | 2382              | 1110         | 0.000         | 0.000         | 0.010       | 0.010        | 949               | 23.02        | 0.000         | 0.000         | 0.014       | 0.014        | 28                |
| 29                    | 2215         | 0.000         | 0.000         | 0.011       | 0.011        | 2162              | 1346         | 0.000         | 0.000         | 0.010       | 0.010        | 1140              | 52.39        | 0.000         | 0.000         | 0.014       | 0.014        | 64                |
| 30                    | 2576         | 0.000         | 0.000         | 0.012       | 0.012        | 2582              | 1816         | 0.000         | 0.000         | 0.009       | 0.009        | 1396              | 50.27        | 0.000         | 0.000         | 0.014       | 0.014        | 62                |
| 31                    |              |               |               |             |              |                   | 979.0        | 0.000         | 0.000         | 0.009       | 0.009        | 795               |              |               |               |             |              |                   |
| <b>Ten Daily Mean</b> |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| <b>Ten Daily I</b>    | 1153         | 0.000         | 0.000         | 0.015       | 0.015        | 1326              | 1642         | 0.000         | 0.000         | 0.010       | 0.010        | 1400              | 1165         | 0.000         | 0.000         | 0.008       | 0.008        | 827               |
| <b>Ten Daily II</b>   | 998.8        | 0.000         | 0.000         | 0.017       | 0.017        | 1152              | 2309         | 0.000         | 0.000         | 0.009       | 0.009        | 1863              | 512.9        | 0.000         | 0.000         | 0.010       | 0.010        | 402               |
| <b>Ten Daily III</b>  | 1937         | 0.000         | 0.000         | 0.011       | 0.011        | 1902              | 1225         | 0.000         | 0.000         | 0.010       | 0.010        | 1026              | 23.86        | 0.000         | 0.000         | 0.013       | 0.013        | 28                |
| <b>Monthly</b>        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| <b>Total</b>          |              |               |               |             |              | 43797             |              |               |               |             |              | 43918             |              |               |               |             |              | 12565             |

**Annual Sediment Load (Metric Tonnes) : 187031**

**Daily Observed Sediment Datasheet for period : 2021-2022**

Station Name : Wadenapally ( AK000D5)

Local River : Krishna

Division : Lower Krishna Divn., Hyderabad

Sub-Division : Lower Krishna SD2, Vijayawada

| Day            | Dec          |               |               |             |              |                   | Jan          |               |               |             |              |                   | Feb          |               |               |             |              |                   |
|----------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1              | 40.48        | 0.000         | 0.000         | 0.007       | 0.007        | 24                | 80.81        | 0.000         | 0.000         | 0.007       | 0.007        | 46                | 79.87        | 1.000         | 0.000         | 0.007       | 1.007        | 6946              |
| 2              | 39.19        | 0.000         | 0.000         | 0.007       | 0.007        | 23                | 86.92        | 0.000         | 0.000         | 0.007       | 0.007        | 50                | 79.96        | 0.000         | 0.000         | 0.007       | 0.007        | 46                |
| 3              | 38.47        | 0.000         | 0.000         | 0.007       | 0.007        | 23                | 135.6        | 0.000         | 0.000         | 0.013       | 0.013        | 146               | 79.72        | 0.000         | 0.000         | 0.007       | 0.007        | 45                |
| 4              | 65.17        | 0.000         | 0.000         | 0.007       | 0.007        | 38                | 124.0        | 0.000         | 0.000         | 0.007       | 0.007        | 70                | 80.56        | 0.000         | 0.000         | 0.007       | 0.007        | 46                |
| 5              | 65.06        | 0.000         | 0.000         | 0.007       | 0.007        | 38                | 84.01        | 0.000         | 0.000         | 0.007       | 0.007        | 48                | 81.02        | 0.000         | 0.000         | 0.007       | 0.007        | 46                |
| 6              | 65.09        | 0.000         | 0.000         | 0.013       | 0.013        | 73                | 80.90        | 0.000         | 0.000         | 0.007       | 0.007        | 46                | 86.92        | 0.000         | 0.000         | 0.007       | 0.007        | 50                |
| 7              | 134.4        | 0.000         | 0.000         | 0.007       | 0.007        | 76                | 82.95        | 0.000         | 0.000         | 0.007       | 0.007        | 47                | 78.27        | 0.000         | 0.000         | 0.007       | 0.007        | 48                |
| 8              | 159.5        | 0.000         | 0.000         | 0.007       | 0.007        | 90                | 86.92        | 0.000         | 0.000         | 0.007       | 0.007        | 50                | 76.48        | 0.000         | 0.000         | 0.007       | 0.007        | 44                |
| 9              | 65.46        | 0.000         | 0.000         | 0.007       | 0.007        | 38                | 86.92        | 0.000         | 0.000         | 0.007       | 0.007        | 50                | 74.58        | 0.000         | 0.000         | 0.007       | 0.007        | 43                |
| 10             | 65.61        | 0.000         | 0.000         | 0.007       | 0.007        | 38                | 83.77        | 0.000         | 0.000         | 0.014       | 0.014        | 100               | 76.68        | 0.000         | 0.000         | 0.007       | 0.007        | 44                |
| 11             | 65.09        | 0.000         | 0.000         | 0.007       | 0.007        | 38                | 83.02        | 0.000         | 0.000         | 0.007       | 0.007        | 47                | 78.79        | 0.000         | 0.000         | 0.007       | 0.007        | 45                |
| 12             | 65.09        | 0.000         | 0.000         | 0.007       | 0.007        | 38                | 82.90        | 0.000         | 0.000         | 0.007       | 0.007        | 47                | 86.92        | 0.000         | 0.000         | 0.007       | 0.007        | 50                |
| 13             | 68.12        | 0.000         | 0.000         | 0.010       | 0.010        | 60                | 82.94        | 0.000         | 0.000         | 0.007       | 0.007        | 47                | 112.7        | 0.000         | 0.000         | 0.007       | 0.007        | 63                |
| 14             | 66.90        | 0.000         | 0.000         | 0.007       | 0.007        | 39                | 17.27        | 0.000         | 0.000         | 0.008       | 0.008        | 11                | 135.6        | 0.000         | 0.000         | 0.009       | 0.009        | 104               |
| 15             | 66.74        | 0.000         | 0.000         | 0.007       | 0.007        | 39                | 81.62        | 0.000         | 0.000         | 0.007       | 0.007        | 47                | 138.7        | 0.000         | 0.000         | 0.007       | 0.007        | 78                |
| 16             | 68.91        | 0.000         | 0.000         | 0.007       | 0.007        | 40                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 136.4        | 0.000         | 0.000         | 0.007       | 0.007        | 77                |
| 17             | 66.10        | 0.000         | 0.000         | 0.007       | 0.007        | 38                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 138.9        | 0.000         | 0.000         | 0.007       | 0.007        | 78                |
| 18             | 65.16        | 0.000         | 0.000         | 0.007       | 0.007        | 38                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 122.0        | 0.000         | 0.000         | 0.007       | 0.007        | 69                |
| 19             | 86.92        | 0.000         | 0.000         | 0.007       | 0.007        | 50                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 126.1        | 0.000         | 0.000         | 0.007       | 0.007        | 71                |
| 20             | 85.94        | 0.000         | 0.000         | 0.013       | 0.013        | 93                | 25.25        | 0.000         | 0.000         | 0.007       | 0.007        | 16                | 112.7        | 0.000         | 0.000         | 0.007       | 0.007        | 63                |
| 21             | 84.14        | 0.000         | 0.000         | 0.007       | 0.007        | 48                | 25.20        | 0.000         | 0.000         | 0.007       | 0.007        | 16                | 130.4        | 0.000         | 0.000         | 0.006       | 0.006        | 64                |
| 22             | 82.43        | 0.000         | 0.000         | 0.007       | 0.007        | 47                | 81.50        | 0.000         | 0.000         | 0.007       | 0.007        | 46                | 86.56        | 0.000         | 0.000         | 0.007       | 0.007        | 49                |
| 23             | 81.42        | 0.000         | 0.000         | 0.007       | 0.007        | 46                | 86.92        | 0.000         | 0.000         | 0.007       | 0.007        | 50                | 84.58        | 0.000         | 0.000         | 0.007       | 0.007        | 48                |
| 24             | 81.76        | 0.000         | 0.000         | 0.007       | 0.007        | 47                | 77.47        | 0.000         | 0.000         | 0.008       | 0.008        | 52                | 84.63        | 0.000         | 0.000         | 0.007       | 0.007        | 48                |
| 25             | 86.92        | 0.000         | 0.000         | 0.007       | 0.007        | 50                | 78.56        | 0.000         | 0.000         | 0.007       | 0.007        | 45                | 88.98        | 0.000         | 0.000         | 0.007       | 0.007        | 51                |
| 26             | 86.92        | 0.000         | 0.000         | 0.007       | 0.007        | 50                | 86.92        | 0.000         | 0.000         | 0.007       | 0.007        | 50                | 81.74        | 0.000         | 0.000         | 0.007       | 0.007        | 47                |
| 27             | 82.49        | 0.000         | 0.000         | 0.009       | 0.009        | 61                | 81.85        | 0.000         | 0.000         | 0.007       | 0.007        | 47                | 86.92        | 0.000         | 0.000         | 0.007       | 0.007        | 50                |
| 28             | 81.80        | 0.000         | 0.000         | 0.007       | 0.007        | 47                | 80.85        | 0.000         | 0.000         | 0.007       | 0.007        | 46                | 81.98        | 0.000         | 0.000         | 0.005       | 0.005        | 35                |
| 29             | 80.98        | 0.000         | 0.000         | 0.007       | 0.007        | 46                | 82.46        | 0.000         | 0.000         | 0.007       | 0.007        | 47                |              |               |               |             |              |                   |
| 30             | 84.04        | 0.000         | 0.000         | 0.007       | 0.007        | 48                | 86.92        | 0.000         | 0.000         | 0.007       | 0.007        | 50                |              |               |               |             |              |                   |
| 31             | 82.68        | 0.000         | 0.000         | 0.007       | 0.007        | 47                | 79.21        | 0.000         | 0.000         | 0.007       | 0.007        | 44                |              |               |               |             |              |                   |
| Ten Daily Mean |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Ten Daily I    | 73.84        | 0.000         | 0.000         | 0.007       | 0.007        | 46                | 93.28        | 0.000         | 0.000         | 0.008       | 0.008        | 65                | 79.40        | 0.100         | 0.000         | 0.007       | 0.107        | 736               |
| Ten Daily II   | 70.50        | 0.000         | 0.000         | 0.008       | 0.008        | 47                | 37.30        | 0.000         | 0.000         | 0.004       | 0.004        | 22                | 118.9        | 0.000         | 0.000         | 0.007       | 0.007        | 70                |
| Ten Daily III  | 83.23        | 0.000         | 0.000         | 0.007       | 0.007        | 49                | 77.08        | 0.000         | 0.000         | 0.007       | 0.007        | 45                | 90.72        | 0.000         | 0.000         | 0.006       | 0.006        | 49                |
| Monthly        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Total          |              |               |               |             |              | 1467              |              |               |               |             |              | 1360              |              |               |               |             |              | 8446              |

Annual Sediment Load (Metric Tonnes) : 187031



**Daily Observed Sediment Datasheet for period : 2021-2022**

**Station Name : Wadenapally ( AK000D5)**

**Local River : Krishna**

**Division : Lower Krishna Divn., Hyderabad**

**Sub-Division : Lower Krishna SD2, Vijayawada**

| Day            | Mar          |               |               |             |              |                   | Apr          |               |               |             |              |                   | May          |               |               |             |              |                   |
|----------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1              | 83.85        | 0.000         | 0.000         | 0.007       | 0.007        | 48                | 18.91        | 0.000         | 0.000         | 0.008       | 0.008        | 12                | 112.7        | 0.000         | 0.000         | 0.007       | 0.007        | 63                |
| 2              | 94.08        | 0.000         | 0.000         | 0.007       | 0.007        | 54                | 18.03        | 0.000         | 0.000         | 0.008       | 0.008        | 12                | 136.0        | 0.000         | 0.000         | 0.006       | 0.006        | 66                |
| 3              | 82.32        | 0.000         | 0.000         | 0.007       | 0.007        | 47                | 15.71        | 0.000         | 0.000         | 0.008       | 0.008        | 11                | 142.5        | 0.000         | 0.000         | 0.007       | 0.007        | 80                |
| 4              | 82.64        | 0.000         | 0.000         | 0.007       | 0.007        | 47                | 17.46        | 0.000         | 0.000         | 0.006       | 0.006        | 8                 | 143.0        | 0.000         | 0.000         | 0.007       | 0.007        | 80                |
| 5              | 85.70        | 0.000         | 0.000         | 0.007       | 0.007        | 49                | 17.99        | 0.000         | 0.000         | 0.008       | 0.008        | 12                | 198.4        | 0.000         | 0.000         | 0.006       | 0.006        | 110               |
| 6              | 86.92        | 0.000         | 0.000         | 0.007       | 0.007        | 50                | 17.85        | 0.000         | 0.000         | 0.008       | 0.008        | 12                | 196.0        | 0.000         | 0.000         | 0.006       | 0.006        | 108               |
| 7              | 212.3        | 0.000         | 0.000         | 0.006       | 0.006        | 112               | 17.54        | 0.000         | 0.000         | 0.008       | 0.008        | 12                | 195.2        | 0.000         | 0.000         | 0.006       | 0.006        | 108               |
| 8              | 195.8        | 0.000         | 0.000         | 0.006       | 0.006        | 108               | 79.29        | 0.000         | 0.000         | 0.007       | 0.007        | 45                | 112.7        | 0.000         | 0.000         | 0.007       | 0.007        | 63                |
| 9              | 174.4        | 0.000         | 0.000         | 0.006       | 0.006        | 96                | 75.49        | 0.000         | 0.000         | 0.007       | 0.007        | 43                | 80.62        | 0.000         | 0.000         | 0.005       | 0.005        | 32                |
| 10             | 82.69        | 0.000         | 0.000         | 0.007       | 0.007        | 47                | 75.49        | 0.000         | 0.000         | 0.007       | 0.007        | 43                | 76.06        | 0.000         | 0.000         | 0.007       | 0.007        | 43                |
| 11             | 81.53        | 0.000         | 0.000         | 0.007       | 0.007        | 46                | 82.83        | 0.000         | 0.000         | 0.005       | 0.005        | 35                | 30.36        | 0.000         | 0.000         | 0.007       | 0.007        | 19                |
| 12             | 86.92        | 0.000         | 0.000         | 0.007       | 0.007        | 50                | 82.93        | 0.000         | 0.000         | 0.007       | 0.007        | 47                | 19.84        | 0.000         | 0.000         | 0.008       | 0.008        | 13                |
| 13             | 86.92        | 0.000         | 0.000         | 0.007       | 0.007        | 50                | 81.30        | 0.000         | 0.000         | 0.007       | 0.007        | 46                | 18.86        | 0.000         | 0.000         | 0.008       | 0.008        | 12                |
| 14             | 83.96        | 0.000         | 0.000         | 0.006       | 0.006        | 42                | 75.49        | 0.000         | 0.000         | 0.007       | 0.007        | 43                | 15.24        | 0.000         | 0.000         | 0.008       | 0.008        | 10                |
| 15             | 142.3        | 0.000         | 0.000         | 0.007       | 0.007        | 80                | 75.49        | 0.000         | 0.000         | 0.007       | 0.007        | 43                | 15.24        | 0.000         | 0.000         | 0.008       | 0.008        | 10                |
| 16             | 140.8        | 0.000         | 0.000         | 0.007       | 0.007        | 79                | 81.62        | 0.000         | 0.000         | 0.007       | 0.007        | 47                | 15.24        | 0.000         | 0.000         | 0.008       | 0.008        | 10                |
| 17             | 104.5        | 0.000         | 0.000         | 0.007       | 0.007        | 59                | 75.49        | 0.000         | 0.000         | 0.007       | 0.007        | 43                | 15.24        | 0.000         | 0.000         | 0.004       | 0.004        | 6                 |
| 18             | 86.92        | 0.000         | 0.000         | 0.007       | 0.007        | 50                | 82.47        | 0.000         | 0.000         | 0.005       | 0.005        | 36                | 18.16        | 0.000         | 0.000         | 0.008       | 0.008        | 12                |
| 19             | 79.41        | 0.000         | 0.000         | 0.007       | 0.007        | 45                | 79.21        | 0.000         | 0.000         | 0.007       | 0.007        | 45                | 17.62        | 0.000         | 0.000         | 0.008       | 0.008        | 12                |
| 20             | 75.49        | 0.000         | 0.000         | 0.007       | 0.007        | 43                | 82.73        | 0.000         | 0.000         | 0.007       | 0.007        | 47                | 16.78        | 0.000         | 0.000         | 0.008       | 0.008        | 11                |
| 21             | 79.93        | 0.000         | 0.000         | 0.005       | 0.005        | 37                | 135.7        | 0.000         | 0.000         | 0.007       | 0.007        | 76                | 16.83        | 0.000         | 0.000         | 0.008       | 0.008        | 11                |
| 22             | 78.97        | 0.000         | 0.000         | 0.007       | 0.007        | 45                | 138.3        | 0.000         | 0.000         | 0.007       | 0.007        | 78                | 17.17        | 0.000         | 0.000         | 0.008       | 0.008        | 11                |
| 23             | 77.08        | 0.000         | 0.000         | 0.007       | 0.007        | 44                | 135.0        | 0.000         | 0.000         | 0.007       | 0.007        | 76                | 13.28        | 0.000         | 0.000         | 0.005       | 0.005        | 6                 |
| 24             | 76.99        | 0.000         | 0.000         | 0.007       | 0.007        | 44                | 127.1        | 0.000         | 0.000         | 0.007       | 0.007        | 71                | 13.06        | 0.000         | 0.000         | 0.008       | 0.008        | 9                 |
| 25             | 79.62        | 0.000         | 0.000         | 0.007       | 0.007        | 45                | 138.6        | 0.000         | 0.000         | 0.008       | 0.008        | 91                | 13.59        | 0.000         | 0.000         | 0.008       | 0.008        | 10                |
| 26             | 79.54        | 0.000         | 0.000         | 0.007       | 0.007        | 45                | 138.2        | 0.000         | 0.000         | 0.007       | 0.007        | 78                | 13.23        | 0.000         | 0.000         | 0.008       | 0.008        | 9                 |
| 27             | 65.06        | 0.000         | 0.000         | 0.007       | 0.007        | 38                | 123.5        | 0.000         | 0.000         | 0.007       | 0.007        | 69                | 13.08        | 0.000         | 0.000         | 0.008       | 0.008        | 9                 |
| 28             | 81.75        | 0.000         | 0.000         | 0.005       | 0.005        | 32                | 118.6        | 0.000         | 0.000         | 0.007       | 0.007        | 67                | 13.14        | 0.000         | 0.000         | 0.008       | 0.008        | 9                 |
| 29             | 15.18        | 0.000         | 0.000         | 0.008       | 0.008        | 10                | 121.1        | 0.000         | 0.000         | 0.007       | 0.007        | 68                | 17.17        | 0.000         | 0.000         | 0.008       | 0.008        | 11                |
| 30             | 19.85        | 0.000         | 0.000         | 0.008       | 0.008        | 13                | 113.4        | 0.000         | 0.000         | 0.007       | 0.007        | 64                | 13.63        | 0.000         | 0.000         | 0.005       | 0.005        | 6                 |
| 31             | 18.76        | 0.000         | 0.000         | 0.008       | 0.008        | 12                |              |               |               |             |              |                   | 13.47        | 0.000         | 0.000         | 0.008       | 0.008        | 9                 |
| Ten Daily Mean |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Ten Daily I    | 118.1        | 0.000         | 0.000         | 0.007       | 0.007        | 66                | 35.38        | 0.000         | 0.000         | 0.007       | 0.007        | 21                | 139.3        | 0.000         | 0.000         | 0.006       | 0.006        | 75                |
| Ten Daily II   | 96.88        | 0.000         | 0.000         | 0.006       | 0.006        | 54                | 79.96        | 0.000         | 0.000         | 0.006       | 0.006        | 43                | 18.26        | 0.000         | 0.000         | 0.007       | 0.007        | 12                |
| Ten Daily III  | 61.16        | 0.000         | 0.000         | 0.007       | 0.007        | 33                | 129.0        | 0.000         | 0.000         | 0.007       | 0.007        | 74                | 14.33        | 0.000         | 0.000         | 0.008       | 0.008        | 9                 |
| Monthly        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Total          |              |               |               |             |              | 1567              |              |               |               |             |              | 1380              |              |               |               |             |              | 973               |

**Annual Sediment Load (Metric Tonnes) : 187031**

# Annual Sediment Load for period : 1967-2022

Station Name : Wadenapally ( AK000D5)

Local River : Krishna

Division : Lower Krishna Divn., Hyderabad

Sub-Division : Lower Krishna SD2, Vijayawada

| Year      | Monsoon<br>(M.T.) | Non-Monsoon<br>(M.T.) | Annual Load<br>(M.T.) | Annual Run Off<br>(MCM) |
|-----------|-------------------|-----------------------|-----------------------|-------------------------|
| 1967-1968 | 4122457           | 160799                | 4283256               | 42832                   |
| 1968-1969 | 5364165           | 664435                | 6028600               | 27539                   |
| 1969-1970 | 4983561           | 25844                 | 5009405               | 43672                   |
| 1970-1971 | 4781049           | 13952                 | 4795001               | 46619                   |
| 1971-1972 | 2154362           | 12141                 | 2166503               | 31322                   |
| 1972-1973 | 376425            | 13864                 | 390289                | 11446                   |
| 1973-1974 | 2952021           | 12298                 | 2964319               | 39807                   |
| 1974-1975 | 2589148           | 41766                 | 2630914               | 36001                   |
| 1975-1976 | 2985196           | 65868                 | 3051064               | 73614                   |
| 1976-1977 | 1480505           | 24672                 | 1505177               | 32192                   |
| 1977-1978 | 404177            | 38185                 | 442361                | 25375                   |
| 1978-1979 | 3878248           | 65019                 | 3943267               | 50896                   |
| 1979-1980 | 1700976           | 49362                 | 1750338               | 34052                   |
| 1980-1981 | 1797117           | 22421                 | 1819537               | 38091                   |
| 1981-1982 | 1725615           | 53195                 | 1778810               | 40917                   |
| 1982-1983 | 878315            | 22286                 | 900601                | 19671                   |
| 1983-1984 | 2509262           | 27299                 | 2536561               | 41198                   |
| 1984-1985 | 455909            | 52630                 | 508539                | 17074                   |
| 1985-1986 | 309716            | 32295                 | 342011                | 10783                   |
| 1986-1987 | 207717            | 25621                 | 233338                | 10791                   |
| 1987-1988 | 459879            | 40165                 | 500044                | 9330                    |
| 1988-1989 | 2202774           | 40797                 | 2243571               | 35365                   |
| 1989-1990 | 1734669           | 97801                 | 1832470               | 22282                   |
| 1990-1991 | 6977531           | 91443                 | 7068973               | 38058                   |
| 1991-1992 | 2081562           | 63285                 | 2144848               | 35589                   |
| 1992-1993 | 578676            | 74734                 | 653410                | 16537                   |
| 1993-1994 | 317708            | 91941                 | 409649                | 26731                   |
| 1994-1995 | 1287257           | 17825                 | 1305082               | 45524                   |
| 1995-1996 | 94183             | 28981                 | 123164                | 8776                    |
| 1996-1997 | 251261            | 21843                 | 273104                | 20786                   |
| 1997-1998 | 410643            | 43355                 | 453997                | 21619                   |
| 1998-1999 | 1012730           | 134159                | 1146889               | 35435                   |
| 1999-2000 | 220743            | 81440                 | 302183                | 14652                   |
| 2000-2001 | 316222            | 49041                 | 365263                | 9513                    |
| 2001-2002 | 113044            | 24629                 | 137673                | 7137                    |
| 2002-2003 | 33548             | 4075                  | 37623                 | 4177                    |
| 2003-2004 | 19155             | 4948                  | 24103                 | 2429                    |
| 2004-2005 | 57390             | 6552                  | 63942                 | 4265                    |
| 2005-2006 | 1645464           | 6524                  | 1651988               | 37856                   |
| 2006-2007 | 800495            | 9358                  | 809852                | 35880                   |
| 2007-2008 | 1199737           | 31916                 | 1231653               | 38229                   |
| 2008-2009 | 640880            | 122524                | 763403                | 15758                   |
| 2009-2010 | 2543528           | 62409                 | 2605937               | 24846                   |
| 2010-2011 | 510578            | 11901                 | 522480                | 17118                   |
| 2011-2012 | 836276            | 39221                 | 875497                | 13586                   |
| 2012-2013 | 30747             | 18505                 | 49252                 | 2790                    |
| 2013-2014 | 550462            | 54392                 | 604854                | 15837                   |
| 2014-2015 | 22395             | 3951                  | 26346                 | 7718                    |
| 2015-2016 | 9324              | 5433                  | 14757                 | 1019                    |
| 2016-2017 | 34453             | 1425                  | 35878                 | 3634                    |
| 2017-2018 | 9602              | 7786                  | 17388                 | 1610                    |
| 2018-2019 | 5099              | 1250                  | 6348                  | 1978                    |
| 2019-2020 | 294975            | 4736                  | 299711                | 25638                   |
| 2020-2021 | 202400            | 2701                  | 205101                | 32287                   |
| 2021-2022 | 171839            | 15192                 | 187031                | 16716                   |

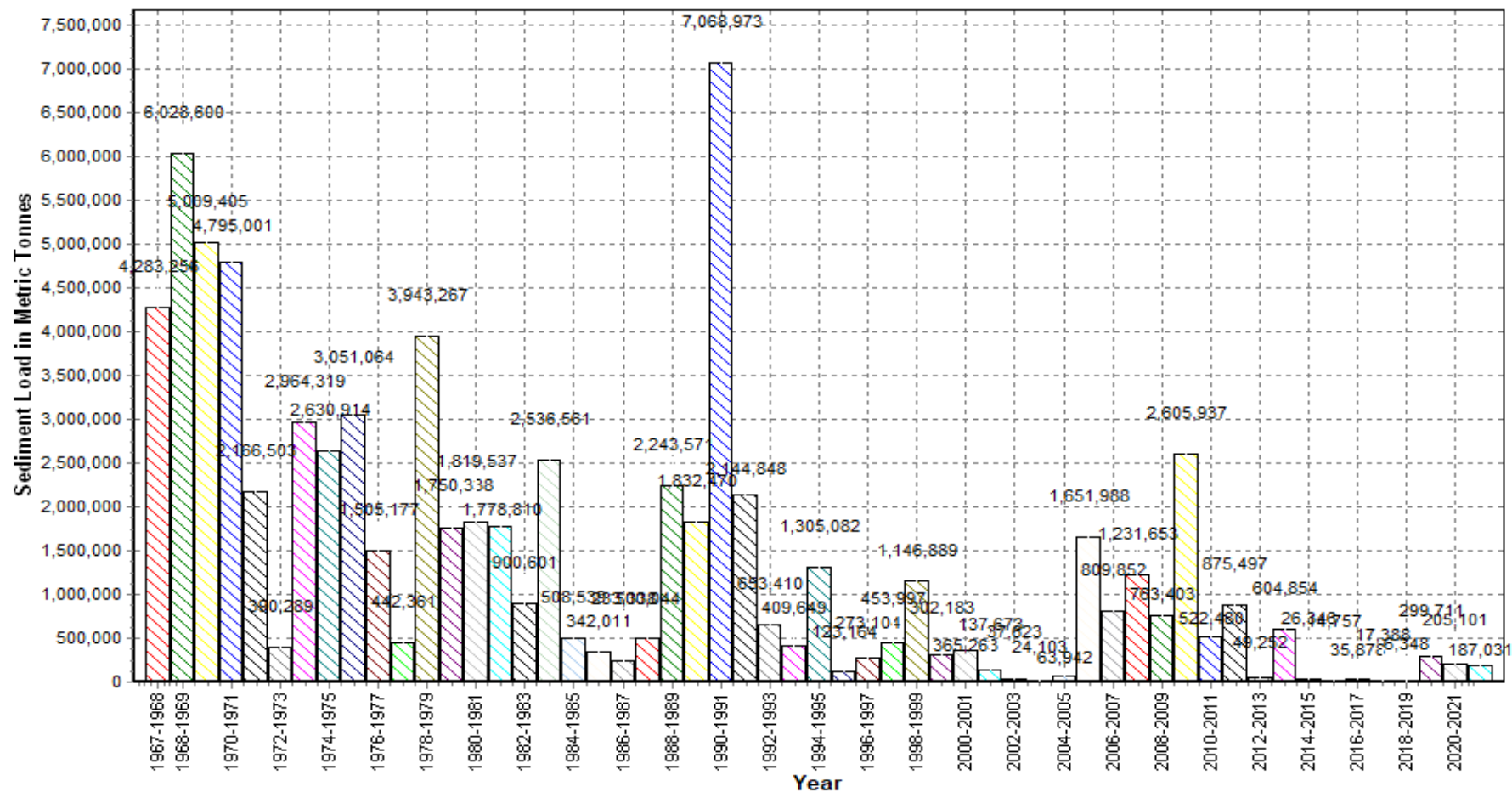
# Annual Sediment Load for the period: 1967-2022

Station Name : Wadenapally ( AK000D5)

Local River : Krishna

Division : Lower Krishna Divn., Hyderabad

Sub-Division : Lower Krishna SD2, Vijayawada



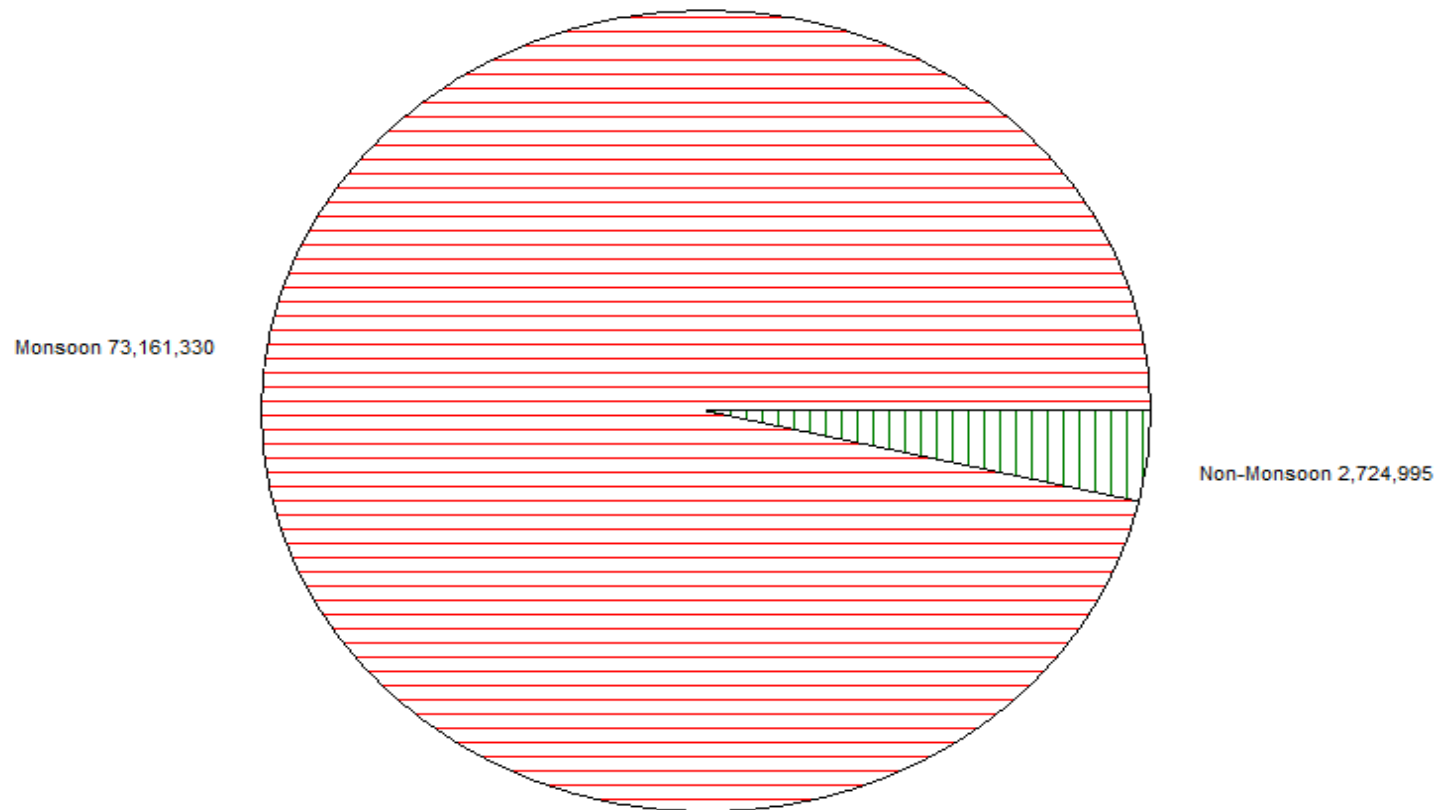
Seasonal Sediment Load for the period : 1967-2021

Station Name : Wadenapally ( AK000D5)

Local River : Krishna

Division : Lower Krishna Divn., Hyderabad

Sub-Division : Lower Krishna SD2, Vijayawada



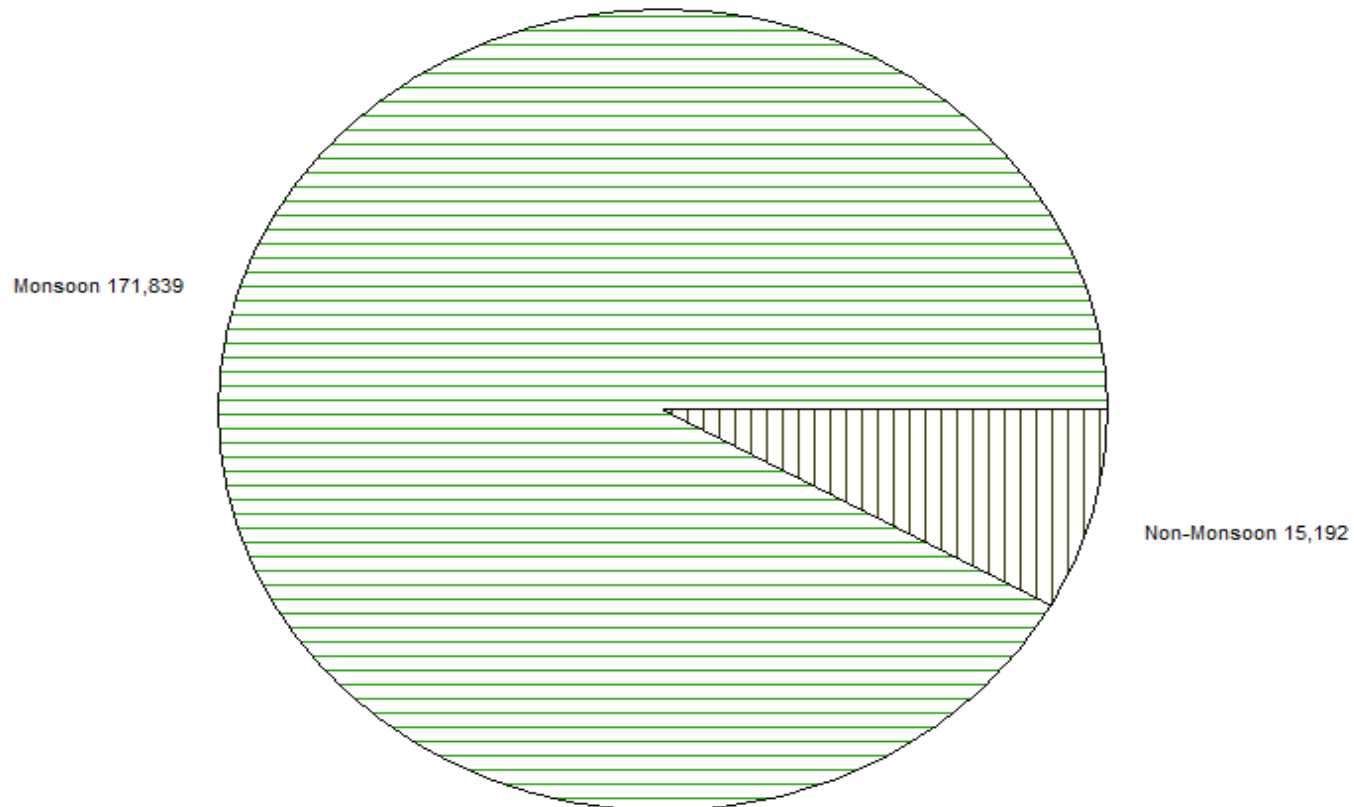
Seasonal Sediment Load for the Year: 2021-2022

Station Name : Wadenapally ( AK000D5)

Local River : Krishna

Division : Lower Krishna Divn., Hyderabad

Sub-Division : Lower Krishna SD2, Vijayawada



**BED MATERIAL ANALYSIS DATA FOR THE YEAR 2021-22**

SITE : KRISHNA AT WADENAPALLI CODE : AK000D5  
MEASURING : LKDN CROSS SECTION : Station gauge line  
AUTHORITY

**Premonsoon Survey ( Date 17-05-2021 )**

Discharge Observed : 55.93 cumec Water edge RB 271.00 m LB : 630.00 m  
Area of section : 548.68 sq.m MeanVelocit : 0.1019 m/sec  
Wetted perimeter : 359.05 Hydraulic Mean Depth : 1.5282 m

| Sl. No | R.D.of sampling point in meters | R.L. of bed in meters | Mean diameter in mm | Remarks               |
|--------|---------------------------------|-----------------------|---------------------|-----------------------|
| 1      | 100                             | 37.510                | 0.62                |                       |
| 2      | 200                             | 26.675                | 4.51                | Av.mean               |
| 3      | 400                             | 22.600                | 1.22                | dia "m" = <b>1.44</b> |
| 4      | 500                             | 23.210                | 0.98                | Silt factor           |
| 5      | 600                             | 23.700                | 0.74                | "f" =1.76 $\sqrt{m}$  |
| 6      | 700                             | 30.380                | 0.55                | = <b>2.11</b>         |

**Note :** i. Discharge observation was at station gauge line.  
ii. River bed : Flowing water.

**Monsoon Survey ( Date 25-10-2021 )**

Discharge Observed : 949.4 cumec Water edge RB 673.00 m LB : 207.00 m  
Area of section : 1864.85 sq.m MeanVelocit : 0.5091 m/sec  
Wetted perimeter : 466.40 Hydraulic Mean Depth : 3.9984 m

| Sl. No | R.D.of sampling point in meters | R.L. of bed in meters | Mean diameter in mm | Remarks               |
|--------|---------------------------------|-----------------------|---------------------|-----------------------|
| 1      | 100                             | 37.985                | 0.63                |                       |
| 2      | 200                             | 27.355                | 0.67                | Av.mean               |
| 3      | 400                             | 21.354                | 1.28                | dia "m" = <b>0.87</b> |
| 4      | 500                             | 20.054                | 0.93                | Silt factor           |
| 5      | 600                             | 24.154                | 0.86                | "f" =1.76 $\sqrt{m}$  |
|        |                                 |                       |                     | = <b>1.64</b>         |

**Note :** i. Discharge observation was at station gauge line.  
ii. River bed : Flowing water.

## HISTORY SHEET

|                          |                                  |                   |                                 |
|--------------------------|----------------------------------|-------------------|---------------------------------|
|                          |                                  | <b>Water Year</b> | <b>: 2021-2022</b>              |
| <b>Site</b>              | <b>: paleru Bridge</b>           | <b>Code</b>       | <b>: AKC00D3</b>                |
| State                    | : Andhra Pradesh                 | District          |                                 |
| Basin                    | : Krishna                        | Independent River | : Krishna                       |
| Tributary                | : Paleru                         | Sub Tributary     | : -                             |
| Sub-Sub Tributary        | : -                              | Local River       | : Paleru                        |
| Division                 | : Lower Krishna Divn., Hyderabad | Sub-Division      | : Lower Krishna SD2, Vijayawada |
| Drainage Area            | : 2928 Sq. Km.                   | Bank              | : Right                         |
| Latitude                 | : 16°56'56"                      | Longitude         | : 80°02'57"                     |
| <b>Zero of Gauge (m)</b> | : 73.232 (m.s.l)                 | 01-06-1964        | - 20-09-1964                    |
|                          | 71.367 (m.s.l)                   | 21-09-1964        | - 31-05-1970                    |
|                          | 71.857 (m.s.l)                   | 01-06-1970        | - 31-10-1984                    |
|                          | 70.357 (m.s.l)                   | 01-11-1984        | - 31-12-1999                    |
|                          | 70.357 (m.s.l)                   | 01-01-2000        | -                               |
| Opening Date             |                                  | Closing Date      |                                 |
| Gauge                    | : 18-05-1964                     |                   |                                 |
| Discharge                | : 01-07-1964                     |                   |                                 |
| Sediment                 | : 01-03-2014                     |                   |                                 |
| Water Quality            | : 01-06-1992                     |                   |                                 |

**Daily Observed Sediment Datasheet for period : 2021-2022**

Station Name : paleru Bridge ( AKC00D3)

Local River : Paleru

Division : Lower Krishna Divn., Hyderabad

Sub-Division : Lower Krishna SD2, Vijayawada

| Day            | Jun          |               |               |             |              |                   | Jul          |               |               |             |              |                   | Aug          |               |               |             |              |                   |
|----------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1              | 3.933        | 0.000         | 0.000         | 0.004       | 0.004        | 1                 | 4.123        | 0.000         | 0.000         | 0.010       | 0.010        | 4                 | 10.74        | 0.000         | 0.000         | 0.024       | 0.024        | 22                |
| 2              | 3.120        | 0.000         | 0.000         | 0.003       | 0.003        | 1                 | 4.086        | 0.000         | 0.000         | 0.015       | 0.015        | 5                 | 9.290        | 0.000         | 0.000         | 0.003       | 0.003        | 2                 |
| 3              | 2.991        | 0.000         | 0.000         | 0.003       | 0.003        | 1                 | 6.007        | 0.000         | 0.000         | 0.015       | 0.015        | 8                 | 3.839        | 0.000         | 0.000         | 0.002       | 0.002        | 1                 |
| 4              | 4.015        | 0.000         | 0.000         | 0.008       | 0.008        | 3                 | 6.294        | 0.000         | 0.000         | 0.029       | 0.029        | 16                | 2.657        | 0.000         | 0.000         | 0.002       | 0.002        | 0                 |
| 5              | 4.009        | 0.000         | 0.000         | 0.008       | 0.008        | 3                 | 4.616        | 0.000         | 0.000         | 0.014       | 0.014        | 6                 | 1.698        | 0.000         | 0.000         | 0.003       | 0.003        | 0                 |
| 6              | 2.994        | 0.000         | 0.000         | 0.043       | 0.043        | 11                | 4.612        | 0.000         | 0.000         | 0.007       | 0.007        | 3                 | 1.597        | 0.000         | 0.000         | 0.002       | 0.002        | 0                 |
| 7              | 3.106        | 0.000         | 0.000         | 0.004       | 0.004        | 1                 | 4.093        | 0.000         | 0.000         | 0.012       | 0.012        | 4                 | 2.110        | 0.000         | 0.000         | 0.002       | 0.002        | 0                 |
| 8              | 3.098        | 0.000         | 0.000         | 0.004       | 0.004        | 1                 | 3.086        | 0.000         | 0.000         | 0.007       | 0.007        | 2                 | 2.103        | 0.000         | 0.000         | 0.055       | 0.055        | 10                |
| 9              | 2.982        | 0.000         | 0.000         | 0.003       | 0.003        | 1                 | 4.058        | 0.000         | 0.000         | 0.014       | 0.014        | 5                 | 2.104        | 0.000         | 0.000         | 0.003       | 0.003        | 0                 |
| 10             | 3.087        | 0.000         | 0.000         | 0.004       | 0.004        | 1                 | 4.074        | 0.000         | 0.000         | 0.011       | 0.011        | 4                 | 32.62        | 0.000         | 0.000         | 0.004       | 0.004        | 11                |
| 11             | 3.007        | 0.000         | 0.000         | 0.003       | 0.003        | 1                 | 4.441        | 0.000         | 0.000         | 0.034       | 0.034        | 13                | 16.59        | 0.000         | 0.000         | 0.009       | 0.009        | 13                |
| 12             | 4.025        | 0.000         | 0.000         | 0.008       | 0.008        | 3                 | 4.673        | 0.000         | 0.000         | 0.008       | 0.008        | 3                 | 13.49        | 0.000         | 0.000         | 0.004       | 0.004        | 4                 |
| 13             | 4.741        | 0.000         | 0.000         | 0.033       | 0.033        | 14                | 9.793        | 0.000         | 0.000         | 0.007       | 0.007        | 6                 | 11.20        | 0.000         | 0.000         | 0.005       | 0.005        | 4                 |
| 14             | 4.369        | 0.000         | 0.000         | 0.021       | 0.021        | 8                 | 10.35        | 0.000         | 0.000         | 0.018       | 0.018        | 16                | 5.298        | 0.000         | 0.000         | 0.028       | 0.028        | 13                |
| 15             | 4.302        | 0.000         | 0.000         | 0.022       | 0.022        | 8                 | 23.20        | 0.000         | 0.000         | 0.023       | 0.023        | 47                | 4.111        | 0.000         | 0.000         | 0.036       | 0.036        | 13                |
| 16             | 4.235        | 0.000         | 0.000         | 0.013       | 0.013        | 5                 | 22.86        | 0.000         | 0.000         | 0.010       | 0.010        | 20                | 24.64        | 0.000         | 0.000         | 0.042       | 0.042        | 89                |
| 17             | 4.009        | 0.000         | 0.000         | 0.008       | 0.008        | 3                 | 16.72        | 0.000         | 0.000         | 0.010       | 0.010        | 15                | 41.04        | 0.000         | 0.000         | 0.014       | 0.014        | 48                |
| 18             | 4.056        | 0.000         | 0.000         | 0.009       | 0.009        | 3                 | 8.961        | 0.000         | 0.000         | 0.025       | 0.025        | 19                | 178.1        | 0.000         | 0.000         | 0.006       | 0.006        | 99                |
| 19             | 4.016        | 0.000         | 0.000         | 0.010       | 0.010        | 3                 | 6.019        | 0.000         | 0.000         | 0.009       | 0.009        | 4                 | 66.45        | 0.000         | 0.000         | 0.007       | 0.007        | 41                |
| 20             | 4.741        | 0.000         | 0.000         | 0.033       | 0.033        | 14                | 17.52        | 0.000         | 0.000         | 0.007       | 0.007        | 11                | 52.88        | 0.000         | 0.000         | 0.018       | 0.018        | 80                |
| 21             | 3.887        | 0.000         | 0.000         | 0.009       | 0.009        | 3                 | 14.97        | 0.000         | 0.000         | 0.022       | 0.022        | 28                | 23.74        | 0.000         | 0.000         | 0.009       | 0.009        | 17                |
| 22             | 4.068        | 0.000         | 0.000         | 0.016       | 0.016        | 6                 | 24.77        | 0.000         | 0.000         | 0.007       | 0.007        | 16                | 21.85        | 0.000         | 0.000         | 0.020       | 0.020        | 37                |
| 23             | 3.106        | 0.000         | 0.000         | 0.005       | 0.005        | 1                 | 186.6        | 0.000         | 0.000         | 0.015       | 0.015        | 248               | 27.89        | 0.000         | 0.000         | 0.031       | 0.031        | 75                |
| 24             | 3.119        | 0.000         | 0.000         | 0.006       | 0.006        | 2                 | 199.9        | 0.000         | 0.000         | 0.045       | 0.045        | 782               | 10.79        | 0.000         | 0.000         | 0.008       | 0.008        | 7                 |
| 25             | 3.106        | 0.000         | 0.000         | 0.006       | 0.006        | 2                 | 164.0        | 0.000         | 0.000         | 0.017       | 0.017        | 235               | 9.654        | 0.000         | 0.000         | 0.023       | 0.023        | 19                |
| 26             | 3.004        | 0.000         | 0.000         | 0.005       | 0.005        | 1                 | 91.58        | 0.000         | 0.000         | 0.005       | 0.005        | 36                | 15.38        | 0.000         | 0.000         | 0.019       | 0.019        | 25                |
| 27             | 2.168        | 0.000         | 0.000         | 0.054       | 0.054        | 10                | 24.65        | 0.000         | 0.000         | 0.021       | 0.021        | 46                | 38.62        | 0.000         | 0.000         | 0.021       | 0.021        | 69                |
| 28             | 3.007        | 0.000         | 0.000         | 0.004       | 0.004        | 1                 | 25.52        | 0.000         | 0.000         | 0.011       | 0.011        | 24                | 73.64        | 0.000         | 0.000         | 0.027       | 0.027        | 174               |
| 29             | 3.083        | 0.000         | 0.000         | 0.005       | 0.005        | 1                 | 17.81        | 0.000         | 0.000         | 0.010       | 0.010        | 16                | 51.39        | 0.000         | 0.000         | 0.018       | 0.018        | 78                |
| 30             | 3.012        | 0.000         | 0.000         | 0.004       | 0.004        | 1                 | 17.32        | 0.000         | 0.000         | 0.011       | 0.011        | 16                | 239.8        | 0.000         | 0.000         | 0.017       | 0.017        | 342               |
| 31             |              |               |               |             |              |                   | 10.56        | 0.000         | 0.000         | 0.027       | 0.027        | 24                | 257.4        | 0.000         | 0.000         | 0.017       | 0.017        | 367               |
| Ten Daily Mean |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Ten Daily I    | 3.334        | 0.000         | 0.000         | 0.008       | 0.008        | 2                 | 4.505        | 0.000         | 0.000         | 0.014       | 0.014        | 6                 | 6.876        | 0.000         | 0.000         | 0.010       | 0.010        | 5                 |
| Ten Daily II   | 4.150        | 0.000         | 0.000         | 0.016       | 0.016        | 6                 | 12.45        | 0.000         | 0.000         | 0.015       | 0.015        | 15                | 41.38        | 0.000         | 0.000         | 0.017       | 0.017        | 40                |
| Ten Daily III  | 3.156        | 0.000         | 0.000         | 0.011       | 0.011        | 3                 | 70.69        | 0.000         | 0.000         | 0.017       | 0.017        | 134               | 70.01        | 0.000         | 0.000         | 0.019       | 0.019        | 110               |
| Monthly        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Total          |              |               |               |             |              | 112               |              |               |               |             |              | 1682              |              |               |               |             |              | 1663              |



**Daily Observed Sediment Datasheet for period : 2021-2022**

Station Name : paleru Bridge ( AKC00D3)

Local River : Paleru

Division : Lower Krishna Divn., Hyderabad

Sub-Division : Lower Krishna SD2, Vijayawada

| Day            | Sep          |               |               |             |              |                   | Oct          |               |               |             |              |                   | Nov          |               |               |             |              |                   |
|----------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1              | 332.7        | 0.000         | 0.000         | 0.016       | 0.016        | 451               | 75.87        | 0.000         | 0.000         | 0.017       | 0.017        | 110               | 30.24        | 0.000         | 0.000         | 0.031       | 0.031        | 80                |
| 2              | 175.9        | 0.000         | 0.000         | 0.017       | 0.017        | 251               | 54.39        | 0.000         | 0.000         | 0.018       | 0.018        | 83                | 17.79        | 0.000         | 0.000         | 0.033       | 0.033        | 51                |
| 3              | 133.0        | 0.000         | 0.000         | 0.016       | 0.016        | 185               | 22.88        | 0.000         | 0.000         | 0.020       | 0.020        | 39                | 15.40        | 0.000         | 0.000         | 0.037       | 0.037        | 49                |
| 4              | 129.5        | 0.000         | 0.000         | 0.015       | 0.015        | 170               | 17.52        | 0.000         | 0.000         | 0.024       | 0.024        | 36                | 17.92        | 0.000         | 0.000         | 0.021       | 0.021        | 32                |
| 5              | 98.86        | 0.000         | 0.000         | 0.017       | 0.017        | 144               | 18.34        | 0.000         | 0.000         | 0.034       | 0.034        | 53                | 42.84        | 0.000         | 0.000         | 0.023       | 0.023        | 86                |
| 6              | 40.18        | 0.000         | 0.000         | 0.021       | 0.021        | 73                | 17.58        | 0.000         | 0.000         | 0.033       | 0.033        | 50                | 43.87        | 0.000         | 0.000         | 0.026       | 0.026        | 98                |
| 7              | 153.3        | 0.000         | 0.000         | 0.015       | 0.015        | 200               | 15.19        | 0.000         | 0.000         | 0.032       | 0.032        | 41                | 45.61        | 0.000         | 0.000         | 0.018       | 0.018        | 70                |
| 8              | 178.5        | 0.000         | 0.000         | 0.015       | 0.015        | 224               | 16.25        | 0.000         | 0.000         | 0.035       | 0.035        | 49                | 19.75        | 0.000         | 0.000         | 0.031       | 0.031        | 53                |
| 9              | 148.7        | 0.000         | 0.000         | 0.016       | 0.016        | 204               | 13.49        | 0.000         | 0.000         | 0.022       | 0.022        | 26                | 12.67        | 0.000         | 0.000         | 0.026       | 0.026        | 29                |
| 10             | 96.90        | 0.000         | 0.000         | 0.017       | 0.017        | 141               | 11.09        | 0.000         | 0.000         | 0.023       | 0.023        | 22                | 8.426        | 0.000         | 0.000         | 0.033       | 0.033        | 24                |
| 11             | 56.69        | 0.000         | 0.000         | 0.018       | 0.018        | 86                | 19.12        | 0.000         | 0.000         | 0.032       | 0.032        | 54                | 7.761        | 0.000         | 0.000         | 0.039       | 0.039        | 26                |
| 12             | 42.16        | 0.000         | 0.000         | 0.018       | 0.018        | 66                | 19.40        | 0.000         | 0.000         | 0.032       | 0.032        | 54                | 7.212        | 0.000         | 0.000         | 0.035       | 0.035        | 21                |
| 13             | 26.01        | 0.000         | 0.000         | 0.015       | 0.015        | 34                | 19.21        | 0.000         | 0.000         | 0.031       | 0.031        | 52                | 8.556        | 0.000         | 0.000         | 0.026       | 0.026        | 19                |
| 14             | 20.32        | 0.000         | 0.000         | 0.015       | 0.015        | 26                | 15.88        | 0.000         | 0.000         | 0.034       | 0.034        | 47                | 7.557        | 0.000         | 0.000         | 0.027       | 0.027        | 17                |
| 15             | 16.89        | 0.000         | 0.000         | 0.014       | 0.014        | 21                | 17.45        | 0.000         | 0.000         | 0.021       | 0.021        | 31                | 8.432        | 0.000         | 0.000         | 0.031       | 0.031        | 22                |
| 16             | 12.06        | 0.000         | 0.000         | 0.016       | 0.016        | 17                | 21.43        | 0.000         | 0.000         | 0.032       | 0.032        | 60                | 7.325        | 0.000         | 0.000         | 0.037       | 0.037        | 23                |
| 17             | 10.10        | 0.000         | 0.000         | 0.016       | 0.016        | 14                | 49.92        | 0.000         | 0.000         | 0.018       | 0.018        | 76                | 20.33        | 0.000         | 0.000         | 0.033       | 0.033        | 59                |
| 18             | 8.161        | 0.000         | 0.000         | 0.018       | 0.018        | 12                | 110.4        | 0.000         | 0.000         | 0.022       | 0.022        | 212               | 10.74        | 0.000         | 0.000         | 0.022       | 0.022        | 21                |
| 19             | 8.556        | 0.000         | 0.000         | 0.026       | 0.026        | 19                | 80.97        | 0.000         | 0.000         | 0.017       | 0.017        | 120               | 14.76        | 0.000         | 0.000         | 0.022       | 0.022        | 28                |
| 20             | 35.29        | 0.000         | 0.000         | 0.016       | 0.016        | 48                | 43.18        | 0.000         | 0.000         | 0.027       | 0.027        | 101               | 20.21        | 0.000         | 0.000         | 0.041       | 0.041        | 71                |
| 21             | 61.53        | 0.000         | 0.000         | 0.017       | 0.017        | 92                | 39.94        | 0.000         | 0.000         | 0.031       | 0.031        | 106               | 9.608        | 0.000         | 0.000         | 0.025       | 0.025        | 20                |
| 22             | 30.59        | 0.000         | 0.000         | 0.026       | 0.026        | 68                | 30.58        | 0.000         | 0.000         | 0.034       | 0.034        | 91                | 8.194        | 0.000         | 0.000         | 0.032       | 0.032        | 23                |
| 23             | 30.92        | 0.000         | 0.000         | 0.026       | 0.026        | 70                | 15.33        | 0.000         | 0.000         | 0.039       | 0.039        | 51                | 6.923        | 0.000         | 0.000         | 0.041       | 0.041        | 25                |
| 24             | 31.01        | 0.000         | 0.000         | 0.026       | 0.026        | 68                | 12.26        | 0.000         | 0.000         | 0.023       | 0.023        | 24                | 7.204        | 0.000         | 0.000         | 0.031       | 0.031        | 19                |
| 25             | 31.10        | 0.000         | 0.000         | 0.026       | 0.026        | 69                | 9.453        | 0.000         | 0.000         | 0.025       | 0.025        | 20                | 6.925        | 0.000         | 0.000         | 0.030       | 0.030        | 18                |
| 26             | 27.23        | 0.000         | 0.000         | 0.019       | 0.019        | 45                | 12.06        | 0.000         | 0.000         | 0.021       | 0.021        | 22                | 7.322        | 0.000         | 0.000         | 0.025       | 0.025        | 16                |
| 27             | 66.58        | 0.000         | 0.000         | 0.019       | 0.019        | 107               | 8.166        | 0.000         | 0.000         | 0.028       | 0.028        | 20                | 6.878        | 0.000         | 0.000         | 0.029       | 0.029        | 17                |
| 28             | 331.9        | 0.000         | 0.000         | 0.023       | 0.023        | 657               | 8.455        | 0.000         | 0.000         | 0.028       | 0.028        | 21                | 8.556        | 0.000         | 0.000         | 0.026       | 0.026        | 19                |
| 29             | 204.3        | 0.000         | 0.000         | 0.023       | 0.023        | 411               | 7.839        | 0.000         | 0.000         | 0.031       | 0.031        | 21                | 5.590        | 0.000         | 0.000         | 0.037       | 0.037        | 18                |
| 30             | 93.22        | 0.000         | 0.000         | 0.016       | 0.016        | 132               | 16.98        | 0.000         | 0.000         | 0.034       | 0.034        | 50                | 6.328        | 0.000         | 0.000         | 0.036       | 0.036        | 20                |
| 31             |              |               |               |             |              |                   | 18.39        | 0.000         | 0.000         | 0.021       | 0.021        | 33                |              |               |               |             |              |                   |
| Ten Daily Mean |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Ten Daily I    | 148.8        | 0.000         | 0.000         | 0.016       | 0.016        | 204               | 26.26        | 0.000         | 0.000         | 0.026       | 0.026        | 51                | 25.45        | 0.000         | 0.000         | 0.028       | 0.028        | 57                |
| Ten Daily II   | 23.62        | 0.000         | 0.000         | 0.017       | 0.017        | 34                | 39.70        | 0.000         | 0.000         | 0.027       | 0.027        | 81                | 11.29        | 0.000         | 0.000         | 0.031       | 0.031        | 31                |
| Ten Daily III  | 90.84        | 0.000         | 0.000         | 0.022       | 0.022        | 172               | 16.32        | 0.000         | 0.000         | 0.029       | 0.029        | 42                | 7.353        | 0.000         | 0.000         | 0.031       | 0.031        | 19                |
| Monthly        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Total          |              |               |               |             |              | 4107              |              |               |               |             |              | 1774              |              |               |               |             |              | 1074              |

Annual Sediment Load (Metric Tonnes) : 12609

**Daily Observed Sediment Datasheet for period : 2021-2022**

Station Name : paleru Bridge ( AKC00D3)

Local River : Paleru

Division : Lower Krishna Divn., Hyderabad

Sub-Division : Lower Krishna SD2, Vijayawada

| Day                   | Dec          |               |               |             |              |                   | Jan          |               |               |             |              |                   | Feb          |               |               |             |              |                   |
|-----------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                       | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1                     | 6.050        | 0.000         | 0.000         | 0.022       | 0.022        | 12                | 3.228        | 0.000         | 0.000         | 0.023       | 0.023        | 6                 | 8.864        | 0.000         | 0.000         | 0.022       | 0.022        | 17                |
| 2                     | 5.726        | 0.000         | 0.000         | 0.022       | 0.022        | 11                | 3.010        | 0.000         | 0.000         | 0.023       | 0.023        | 6                 | 6.037        | 0.000         | 0.000         | 0.022       | 0.022        | 12                |
| 3                     | 5.622        | 0.000         | 0.000         | 0.022       | 0.022        | 11                | 5.376        | 0.000         | 0.000         | 0.039       | 0.039        | 18                | 5.544        | 0.000         | 0.000         | 0.022       | 0.022        | 11                |
| 4                     | 5.582        | 0.000         | 0.000         | 0.022       | 0.022        | 11                | 4.928        | 0.000         | 0.000         | 0.022       | 0.022        | 10                | 6.144        | 0.000         | 0.000         | 0.022       | 0.022        | 12                |
| 5                     | 5.732        | 0.000         | 0.000         | 0.022       | 0.022        | 11                | 5.079        | 0.000         | 0.000         | 0.022       | 0.022        | 10                | 3.589        | 0.000         | 0.000         | 0.023       | 0.023        | 7                 |
| 6                     | 5.244        | 0.000         | 0.000         | 0.032       | 0.032        | 14                | 4.992        | 0.000         | 0.000         | 0.022       | 0.022        | 10                | 6.268        | 0.000         | 0.000         | 0.022       | 0.022        | 12                |
| 7                     | 5.886        | 0.000         | 0.000         | 0.022       | 0.022        | 11                | 5.081        | 0.000         | 0.000         | 0.022       | 0.022        | 10                | 6.177        | 0.000         | 0.000         | 0.057       | 0.057        | 30                |
| 8                     | 5.683        | 0.000         | 0.000         | 0.022       | 0.022        | 11                | 6.268        | 0.000         | 0.000         | 0.022       | 0.022        | 12                | 3.610        | 0.000         | 0.000         | 0.023       | 0.023        | 7                 |
| 9                     | 5.816        | 0.000         | 0.000         | 0.022       | 0.022        | 11                | 5.219        | 0.000         | 0.000         | 0.022       | 0.022        | 10                | 3.619        | 0.000         | 0.000         | 0.023       | 0.023        | 7                 |
| 10                    | 5.645        | 0.000         | 0.000         | 0.022       | 0.022        | 11                | 5.708        | 0.000         | 0.000         | 0.042       | 0.042        | 21                | 6.133        | 0.000         | 0.000         | 0.022       | 0.022        | 12                |
| 11                    | 10.69        | 0.000         | 0.000         | 0.022       | 0.022        | 20                | 3.510        | 0.000         | 0.000         | 0.023       | 0.023        | 7                 | 3.832        | 0.000         | 0.000         | 0.023       | 0.023        | 8                 |
| 12                    | 11.42        | 0.000         | 0.000         | 0.022       | 0.022        | 22                | 3.278        | 0.000         | 0.000         | 0.023       | 0.023        | 6                 | 4.264        | 0.000         | 0.000         | 0.023       | 0.023        | 8                 |
| 13                    | 5.622        | 0.000         | 0.000         | 0.036       | 0.036        | 17                | 27.50        | 0.000         | 0.000         | 0.022       | 0.022        | 52                | 6.268        | 0.000         | 0.000         | 0.022       | 0.022        | 12                |
| 14                    | 6.400        | 0.000         | 0.000         | 0.022       | 0.022        | 12                | 16.28        | 0.000         | 0.000         | 0.022       | 0.022        | 31                | 3.781        | 0.000         | 0.000         | 0.029       | 0.029        | 9                 |
| 15                    | 5.660        | 0.000         | 0.000         | 0.022       | 0.022        | 11                | 17.65        | 0.000         | 0.000         | 0.022       | 0.022        | 33                | 4.005        | 0.000         | 0.000         | 0.023       | 0.023        | 8                 |
| 16                    | 5.608        | 0.000         | 0.000         | 0.022       | 0.022        | 11                | 25.17        | 0.000         | 0.000         | 0.022       | 0.022        | 47                | 3.976        | 0.000         | 0.000         | 0.023       | 0.023        | 8                 |
| 17                    | 5.774        | 0.000         | 0.000         | 0.022       | 0.022        | 11                | 71.32        | 0.000         | 0.000         | 0.022       | 0.022        | 134               | 4.067        | 0.000         | 0.000         | 0.023       | 0.023        | 8                 |
| 18                    | 5.145        | 0.000         | 0.000         | 0.022       | 0.022        | 10                | 37.46        | 0.000         | 0.000         | 0.022       | 0.022        | 70                | 4.060        | 0.000         | 0.000         | 0.023       | 0.023        | 8                 |
| 19                    | 4.040        | 0.000         | 0.000         | 0.023       | 0.023        | 8                 | 28.70        | 0.000         | 0.000         | 0.022       | 0.022        | 54                | 6.497        | 0.000         | 0.000         | 0.022       | 0.022        | 13                |
| 20                    | 5.613        | 0.000         | 0.000         | 0.040       | 0.040        | 19                | 16.89        | 0.000         | 0.000         | 0.022       | 0.022        | 32                | 6.829        | 0.000         | 0.000         | 0.022       | 0.022        | 13                |
| 21                    | 5.192        | 0.000         | 0.000         | 0.022       | 0.022        | 10                | 7.966        | 0.000         | 0.000         | 0.022       | 0.022        | 15                | 5.539        | 0.000         | 0.000         | 0.008       | 0.008        | 4                 |
| 22                    | 5.127        | 0.000         | 0.000         | 0.022       | 0.022        | 10                | 6.292        | 0.000         | 0.000         | 0.022       | 0.022        | 12                | 4.637        | 0.000         | 0.000         | 0.023       | 0.023        | 9                 |
| 23                    | 3.214        | 0.000         | 0.000         | 0.023       | 0.023        | 6                 | 5.997        | 0.000         | 0.000         | 0.022       | 0.022        | 12                | 5.018        | 0.000         | 0.000         | 0.022       | 0.022        | 10                |
| 24                    | 3.511        | 0.000         | 0.000         | 0.023       | 0.023        | 7                 | 6.235        | 0.000         | 0.000         | 0.040       | 0.040        | 21                | 6.691        | 0.000         | 0.000         | 0.022       | 0.022        | 13                |
| 25                    | 3.010        | 0.000         | 0.000         | 0.023       | 0.023        | 6                 | 3.704        | 0.000         | 0.000         | 0.023       | 0.023        | 7                 | 4.754        | 0.000         | 0.000         | 0.022       | 0.022        | 9                 |
| 26                    | 4.040        | 0.000         | 0.000         | 0.023       | 0.023        | 8                 | 3.610        | 0.000         | 0.000         | 0.023       | 0.023        | 7                 | 5.091        | 0.000         | 0.000         | 0.022       | 0.022        | 10                |
| 27                    | 3.512        | 0.000         | 0.000         | 0.031       | 0.031        | 9                 | 4.755        | 0.000         | 0.000         | 0.022       | 0.022        | 9                 | 5.219        | 0.000         | 0.000         | 0.022       | 0.022        | 10                |
| 28                    | 3.545        | 0.000         | 0.000         | 0.023       | 0.023        | 7                 | 6.313        | 0.000         | 0.000         | 0.022       | 0.022        | 12                | 4.562        | 0.000         | 0.000         | 0.015       | 0.015        | 6                 |
| 29                    | 3.660        | 0.000         | 0.000         | 0.023       | 0.023        | 7                 | 4.918        | 0.000         | 0.000         | 0.022       | 0.022        | 10                |              |               |               |             |              |                   |
| 30                    | 3.678        | 0.000         | 0.000         | 0.023       | 0.023        | 7                 | 4.730        | 0.000         | 0.000         | 0.023       | 0.023        | 9                 |              |               |               |             |              |                   |
| 31                    | 3.558        | 0.000         | 0.000         | 0.023       | 0.023        | 7                 | 3.597        | 0.000         | 0.000         | 0.035       | 0.035        | 11                |              |               |               |             |              |                   |
| <b>Ten Daily Mean</b> |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| <b>Ten Daily I</b>    | 5.699        | 0.000         | 0.000         | 0.023       | 0.023        | 11                | 4.889        | 0.000         | 0.000         | 0.026       | 0.026        | 11                | 5.598        | 0.000         | 0.000         | 0.026       | 0.026        | 13                |
| <b>Ten Daily II</b>   | 6.597        | 0.000         | 0.000         | 0.025       | 0.025        | 14                | 24.78        | 0.000         | 0.000         | 0.022       | 0.022        | 47                | 4.758        | 0.000         | 0.000         | 0.023       | 0.023        | 9                 |
| <b>Ten Daily III</b>  | 3.823        | 0.000         | 0.000         | 0.023       | 0.023        | 8                 | 5.283        | 0.000         | 0.000         | 0.025       | 0.025        | 11                | 5.189        | 0.000         | 0.000         | 0.020       | 0.020        | 9                 |
| <b>Monthly</b>        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| <b>Total</b>          |              |               |               |             |              | 341               |              |               |               |             |              | 705               |              |               |               |             |              | 292               |

Annual Sediment Load (Metric Tonnes) : 12609

**Daily Observed Sediment Datasheet for period : 2021-2022**

Station Name : paleru Bridge ( AKC00D3)

Local River : Paleru

Division : Lower Krishna Divn., Hyderabad

Sub-Division : Lower Krishna SD2, Vijayawada

| Day            | Mar          |               |               |             |              |                   | Apr          |               |               |             |              |                   | May          |               |               |             |              |                   |
|----------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1              | 3.774        | 0.000         | 0.000         | 0.023       | 0.023        | 7                 | 5.386        | 0.000         | 0.000         | 0.022       | 0.022        | 10                | 4.971        | 0.000         | 0.000         | 0.023       | 0.023        | 10                |
| 2              | 4.779        | 0.000         | 0.000         | 0.022       | 0.022        | 9                 | 4.229        | 0.000         | 0.000         | 0.023       | 0.023        | 8                 | 5.976        | 0.000         | 0.000         | 0.022       | 0.022        | 11                |
| 3              | 4.825        | 0.000         | 0.000         | 0.022       | 0.022        | 9                 | 5.219        | 0.000         | 0.000         | 0.022       | 0.022        | 10                | 5.732        | 0.000         | 0.000         | 0.022       | 0.022        | 11                |
| 4              | 6.209        | 0.000         | 0.000         | 0.022       | 0.022        | 12                | 5.905        | 0.000         | 0.000         | 0.016       | 0.016        | 8                 | 3.531        | 0.000         | 0.000         | 0.023       | 0.023        | 7                 |
| 5              | 7.888        | 0.000         | 0.000         | 0.022       | 0.022        | 15                | 5.911        | 0.000         | 0.000         | 0.022       | 0.022        | 11                | 3.863        | 0.000         | 0.000         | 0.023       | 0.023        | 8                 |
| 6              | 6.829        | 0.000         | 0.000         | 0.022       | 0.022        | 13                | 5.283        | 0.000         | 0.000         | 0.022       | 0.022        | 10                | 3.703        | 0.000         | 0.000         | 0.023       | 0.023        | 7                 |
| 7              | 8.070        | 0.000         | 0.000         | 0.011       | 0.011        | 8                 | 7.730        | 0.000         | 0.000         | 0.022       | 0.022        | 15                | 3.627        | 0.000         | 0.000         | 0.023       | 0.023        | 7                 |
| 8              | 11.28        | 0.000         | 0.000         | 0.022       | 0.022        | 21                | 6.189        | 0.000         | 0.000         | 0.022       | 0.022        | 12                | 3.610        | 0.000         | 0.000         | 0.023       | 0.023        | 7                 |
| 9              | 8.622        | 0.000         | 0.000         | 0.022       | 0.022        | 16                | 6.268        | 0.000         | 0.000         | 0.022       | 0.022        | 12                | 3.514        | 0.000         | 0.000         | 0.012       | 0.012        | 3                 |
| 10             | 4.685        | 0.000         | 0.000         | 0.023       | 0.023        | 9                 | 6.268        | 0.000         | 0.000         | 0.022       | 0.022        | 12                | 3.896        | 0.000         | 0.000         | 0.023       | 0.023        | 8                 |
| 11             | 4.660        | 0.000         | 0.000         | 0.023       | 0.023        | 9                 | 7.832        | 0.000         | 0.000         | 0.016       | 0.016        | 11                | 3.963        | 0.000         | 0.000         | 0.023       | 0.023        | 8                 |
| 12             | 5.219        | 0.000         | 0.000         | 0.022       | 0.022        | 10                | 7.835        | 0.000         | 0.000         | 0.022       | 0.022        | 15                | 3.906        | 0.000         | 0.000         | 0.023       | 0.023        | 8                 |
| 13             | 6.268        | 0.000         | 0.000         | 0.022       | 0.022        | 12                | 5.920        | 0.000         | 0.000         | 0.022       | 0.022        | 11                | 3.537        | 0.000         | 0.000         | 0.023       | 0.023        | 7                 |
| 14             | 4.188        | 0.000         | 0.000         | 0.014       | 0.014        | 5                 | 5.732        | 0.000         | 0.000         | 0.022       | 0.022        | 11                | 3.610        | 0.000         | 0.000         | 0.023       | 0.023        | 7                 |
| 15             | 3.514        | 0.000         | 0.000         | 0.023       | 0.023        | 7                 | 5.732        | 0.000         | 0.000         | 0.022       | 0.022        | 11                | 4.040        | 0.000         | 0.000         | 0.023       | 0.023        | 8                 |
| 16             | 3.660        | 0.000         | 0.000         | 0.023       | 0.023        | 7                 | 6.210        | 0.000         | 0.000         | 0.022       | 0.022        | 12                | 4.040        | 0.000         | 0.000         | 0.023       | 0.023        | 8                 |
| 17             | 3.691        | 0.000         | 0.000         | 0.023       | 0.023        | 7                 | 4.971        | 0.000         | 0.000         | 0.022       | 0.022        | 10                | 3.505        | 0.000         | 0.000         | 0.010       | 0.010        | 3                 |
| 18             | 5.219        | 0.000         | 0.000         | 0.022       | 0.022        | 10                | 3.860        | 0.000         | 0.000         | 0.009       | 0.009        | 3                 | 1.902        | 0.000         | 0.000         | 0.024       | 0.024        | 4                 |
| 19             | 3.834        | 0.000         | 0.000         | 0.023       | 0.023        | 8                 | 3.592        | 0.000         | 0.000         | 0.023       | 0.023        | 7                 | 1.910        | 0.000         | 0.000         | 0.024       | 0.024        | 4                 |
| 20             | 6.268        | 0.000         | 0.000         | 0.022       | 0.022        | 12                | 7.780        | 0.000         | 0.000         | 0.022       | 0.022        | 15                | 2.074        | 0.000         | 0.000         | 0.024       | 0.024        | 4                 |
| 21             | 3.908        | 0.000         | 0.000         | 0.008       | 0.008        | 3                 | 7.358        | 0.000         | 0.000         | 0.022       | 0.022        | 14                | 1.949        | 0.000         | 0.000         | 0.024       | 0.024        | 4                 |
| 22             | 5.206        | 0.000         | 0.000         | 0.022       | 0.022        | 10                | 6.180        | 0.000         | 0.000         | 0.022       | 0.022        | 12                | 1.960        | 0.000         | 0.000         | 0.024       | 0.024        | 4                 |
| 23             | 5.364        | 0.000         | 0.000         | 0.022       | 0.022        | 10                | 5.978        | 0.000         | 0.000         | 0.022       | 0.022        | 12                | 2.057        | 0.000         | 0.000         | 0.011       | 0.011        | 2                 |
| 24             | 5.979        | 0.000         | 0.000         | 0.022       | 0.022        | 12                | 6.268        | 0.000         | 0.000         | 0.022       | 0.022        | 12                | 2.806        | 0.000         | 0.000         | 0.023       | 0.023        | 6                 |
| 25             | 8.912        | 0.000         | 0.000         | 0.022       | 0.022        | 17                | 5.380        | 0.000         | 0.000         | 0.024       | 0.024        | 11                | 2.631        | 0.000         | 0.000         | 0.023       | 0.023        | 5                 |
| 26             | 8.981        | 0.000         | 0.000         | 0.022       | 0.022        | 17                | 7.797        | 0.000         | 0.000         | 0.022       | 0.022        | 15                | 2.784        | 0.000         | 0.000         | 0.023       | 0.023        | 6                 |
| 27             | 9.988        | 0.000         | 0.000         | 0.022       | 0.022        | 19                | 7.276        | 0.000         | 0.000         | 0.022       | 0.022        | 14                | 1.662        | 0.000         | 0.000         | 0.024       | 0.024        | 3                 |
| 28             | 7.822        | 0.000         | 0.000         | 0.014       | 0.014        | 10                | 6.114        | 0.000         | 0.000         | 0.022       | 0.022        | 12                | 1.650        | 0.000         | 0.000         | 0.024       | 0.024        | 3                 |
| 29             | 5.932        | 0.000         | 0.000         | 0.022       | 0.022        | 11                | 6.044        | 0.000         | 0.000         | 0.022       | 0.022        | 12                | 1.660        | 0.000         | 0.000         | 0.024       | 0.024        | 3                 |
| 30             | 5.309        | 0.000         | 0.000         | 0.022       | 0.022        | 10                | 5.408        | 0.000         | 0.000         | 0.022       | 0.022        | 10                | 1.668        | 0.000         | 0.000         | 0.014       | 0.014        | 2                 |
| 31             | 5.891        | 0.000         | 0.000         | 0.022       | 0.022        | 11                |              |               |               |             |              |                   | 2.071        | 0.000         | 0.000         | 0.024       | 0.024        | 4                 |
| Ten Daily Mean |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Ten Daily I    | 6.696        | 0.000         | 0.000         | 0.021       | 0.021        | 12                | 5.839        | 0.000         | 0.000         | 0.022       | 0.022        | 11                | 4.242        | 0.000         | 0.000         | 0.021       | 0.021        | 8                 |
| Ten Daily II   | 4.652        | 0.000         | 0.000         | 0.022       | 0.022        | 9                 | 5.946        | 0.000         | 0.000         | 0.020       | 0.020        | 11                | 3.249        | 0.000         | 0.000         | 0.022       | 0.022        | 6                 |
| Ten Daily III  | 6.663        | 0.000         | 0.000         | 0.020       | 0.020        | 12                | 6.380        | 0.000         | 0.000         | 0.022       | 0.022        | 12                | 2.082        | 0.000         | 0.000         | 0.022       | 0.022        | 4                 |
| Monthly        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Total          |              |               |               |             |              | 339               |              |               |               |             |              | 339               |              |               |               |             |              | 183               |

Annual Sediment Load (Metric Tonnes) : 12609

**Annual Sediment Load for period : 2014-2022****Station Name : paleru Bridge ( AKC00D3)****Division : Lower Krishna Divn., Hyderabad****Local River : Paleru****Sub-Division : Lower Krishna SD2, Vijayawada**

| Year      | Monsoon<br>(M.T.) | Non-Monsoon<br>(M.T.) | Annual Load<br>(M.T.) | Annual Run Off<br>(MCM) |
|-----------|-------------------|-----------------------|-----------------------|-------------------------|
| 2014-2015 | 10438             | 1669                  | 12108                 | 199                     |
| 2015-2016 | 910               | 23                    | 933                   | 35                      |
| 2016-2017 | 1746              | 16                    | 1762                  | 21                      |
| 2017-2018 | 800               | 621                   | 1421                  | 78                      |
| 2018-2019 | 11167             | 367                   | 11534                 | 191                     |
| 2019-2020 | 2208              | 550                   | 2758                  | 207                     |
| 2020-2021 | 11494             | 785                   | 12279                 | 853                     |
| 2021-2022 | 10412             | 2197                  | 12609                 | 635                     |

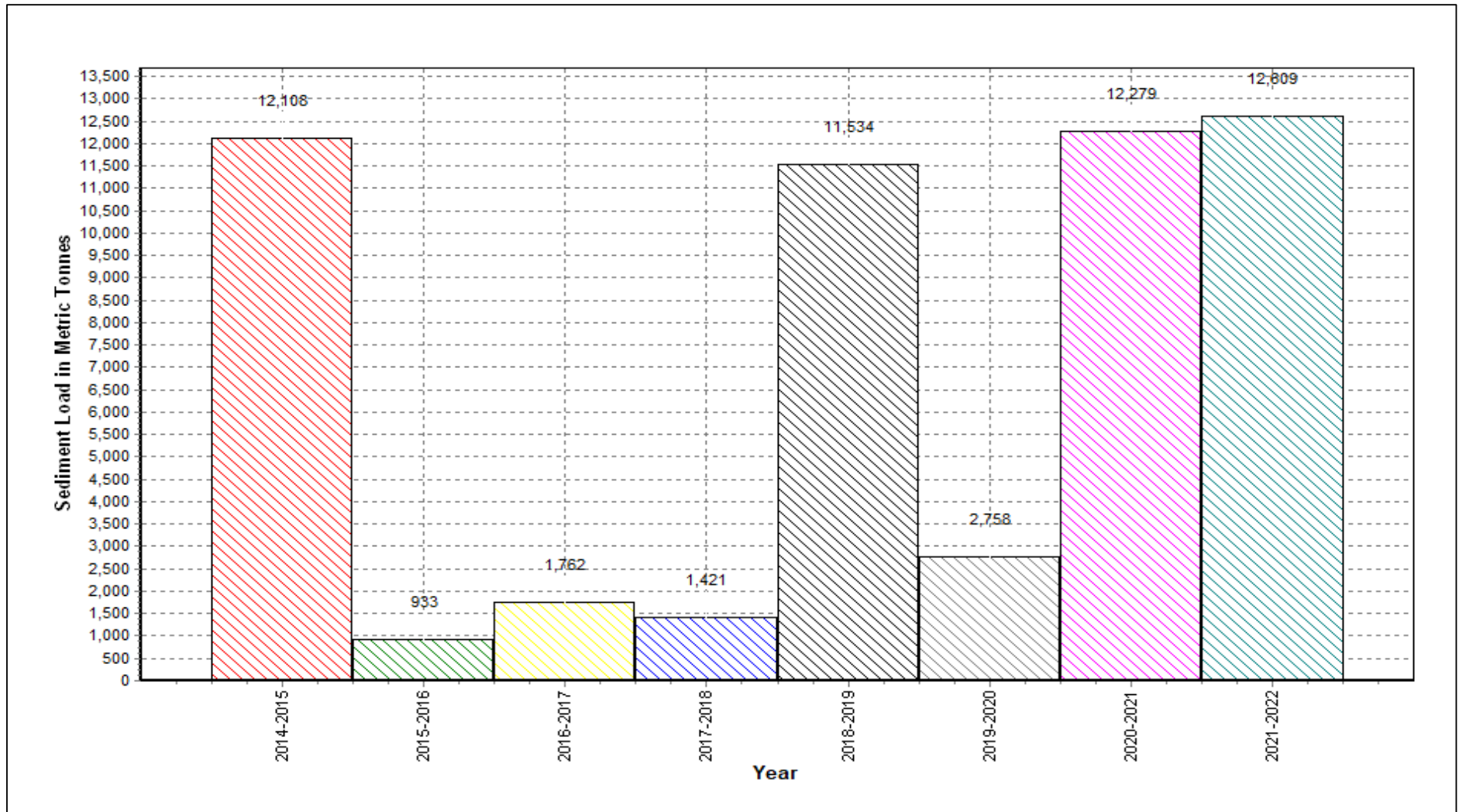
Annual Sediment Load for the period: 2014-2022

Station Name : paleru Bridge ( AKC00D3)

Local River : Paleru

Division : Lower Krishna Divn., Hyderabad

Sub-Division : Lower Krishna SD2, Vijayawada



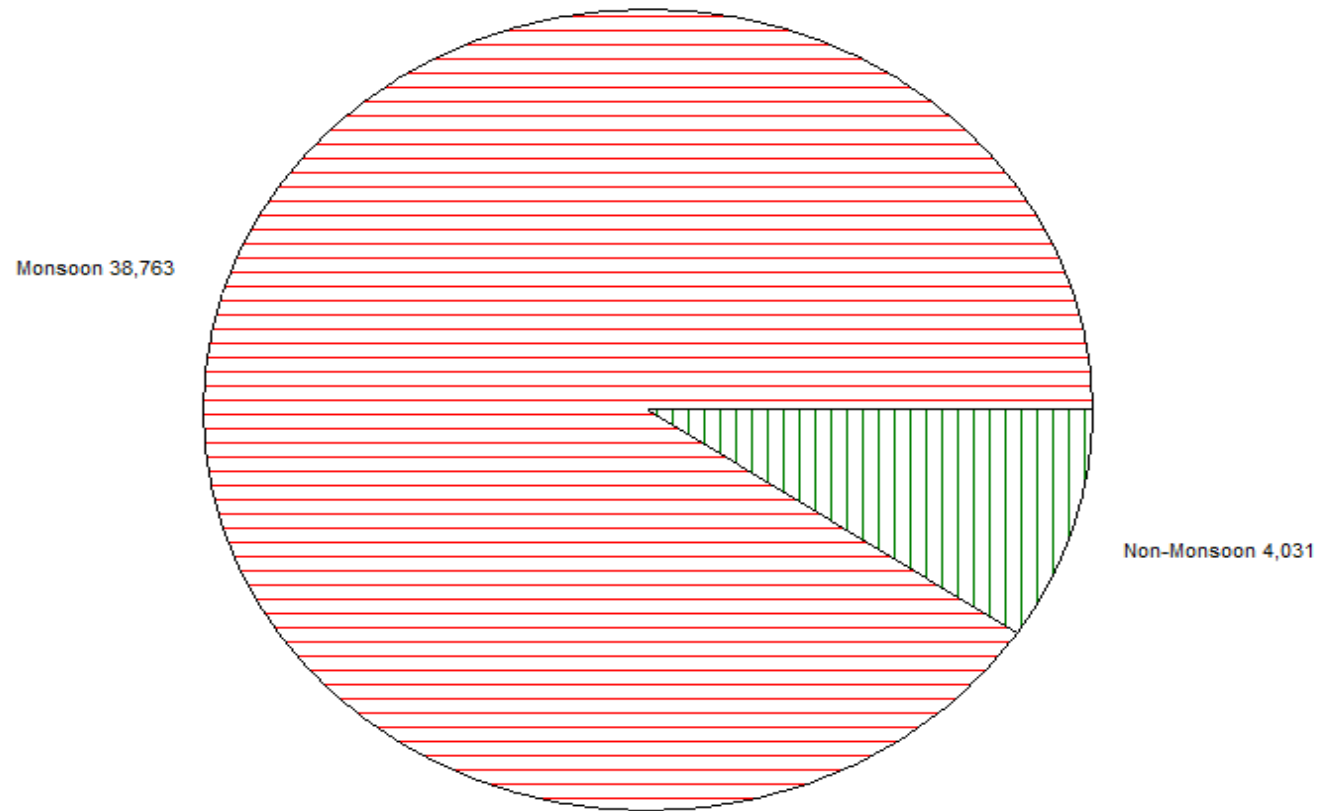
Seasonal Sediment Load for the period : 2014-2021

Station Name : paleru Bridge ( AKC00D3)

Local River : Paleru

Division : Lower Krishna Divn., Hyderabad

Sub-Division : Lower Krishna SD2, Vijayawada



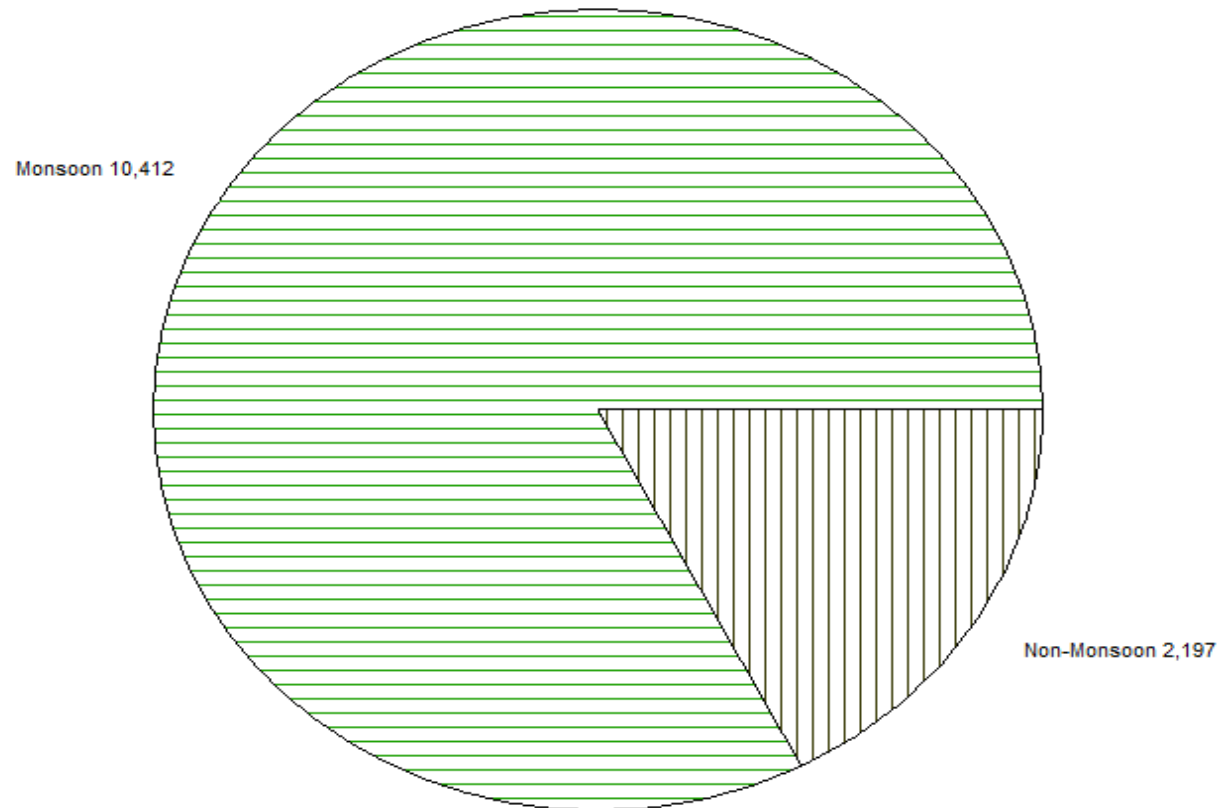
Seasonal Sediment Load for the Year: 2021-2022

Station Name : paleru Bridge ( AKC00D3)

Local River : Paleru

Division : Lower Krishna Divn., Hyderabad

Sub-Division : Lower Krishna SD2, Vijayawada



**BED MATERIAL ANALYSIS DATA FOR THE YEAR 2021-22**

SITE : PALERU AT PALERU CODE : AKC00D3  
 MEASURING : LKDN CROSS SECTION : Station gauge line  
 AUTHORITY

**Premonsoon Survey ( Date 03-05-2021 )**

Discharge Observed : 5.826 cumec Water edge RB 178.00 m LB : 142.00 m  
 Area of section : 37.82 sq.m MeanVelocit : 0.1540 m/sec  
 Wetted perimeter : 36.33 Hydraulic Mean Depth : 1.0409 m

| Sl. No | R.D.of sampling point in meters | R.L. of bed in meters | Mean diameter in mm | Remarks               |
|--------|---------------------------------|-----------------------|---------------------|-----------------------|
| 1      | 50                              | 72.922                | 4.62                |                       |
| 2      | 100                             | 72.667                | 4.13                | Av.mean               |
| 3      | 150                             | 70.717                | 0.80                | dia "m" = <b>2.98</b> |
| 4      | 200                             | 76.342                | 0.81                | Silt factor           |
| 5      | 250                             | 76.477                | 3.85                | "f" =1.76 $\sqrt{m}$  |
| 6      | 300                             | 75.557                | 3.68                | = <b>3.04</b>         |

**Note :** i. Discharge observation was at station gauge line.  
 ii. River bed : Flowing water.

**Monsoon Survey ( Date 17-09-2021 )**

Discharge Observed : 10.1 cumec Water edge RB 178.00 m LB : 142.00 m  
 Area of section : 37.82 sq.m MeanVelocit : 0.2671 m/sec  
 Wetted perimeter : 36.33 Hydraulic Mean Depth : 1.0409 m

| Sl. No | R.D.of sampling point in meters | R.L. of bed in meters | Mean diameter in mm | Remarks               |
|--------|---------------------------------|-----------------------|---------------------|-----------------------|
| 1      | 50                              | 73.557                | 1.62                |                       |
| 2      | 100                             | 72.632                | 1.22                | Av.mean               |
| 3      | 150                             | 70.402                | 1.02                | dia "m" = <b>1.68</b> |
| 4      | 200                             | 76.905                | 0.99                | Silt factor           |
| 5      | 250                             | 76.997                | 1.56                | "f" =1.76 $\sqrt{m}$  |
| 6      | 300                             | 76.762                | 3.69                | = <b>2.28</b>         |

**Note :** i. Discharge observation was at station gauge line.  
 ii. River bed : Flowing water.

**Postmonsoon Survey ( Date )**

Discharge Observed : --- cumec Water edge RB --- m LB : --- m  
 Area of section : --- sq.m MeanVelocit : --- m/sec  
 Wetted perimeter : --- Hydraulic Mean Depth : --- m

| Sl. No | R.D.of sampling point in meters | R.L. of bed in meters | Mean diameter in mm | Remarks |
|--------|---------------------------------|-----------------------|---------------------|---------|
|--------|---------------------------------|-----------------------|---------------------|---------|

Survey not conducted

**Note :** #Type!  
 #Type!  
 #Type!



## HISTORY SHEET

|                          |                                  |                   |                                 |
|--------------------------|----------------------------------|-------------------|---------------------------------|
|                          |                                  | <b>Water Year</b> | <b>: 2021-2022</b>              |
| <b>Site</b>              | <b>: Madhira</b>                 | <b>Code</b>       | <b>: AKA10D2</b>                |
| State                    | : Andhra Pradesh                 | District          | Khammam                         |
| Basin                    | : Krishna                        | Independent River | : Krishna                       |
| Tributary                | : Munneru                        | Sub Tributary     | : Wyra                          |
| Sub-Sub Tributary        | : -                              | Local River       | : Wyra                          |
| Division                 | : Lower Krishna Divn., Hyderabad | Sub-Division      | : Lower Krishna SD2, Vijayawada |
| Drainage Area            | : 1850 Sq. Km.                   | Bank              | : Left                          |
| Latitude                 | : 16°55'05"                      | Longitude         | : 80°21'32"                     |
| <b>Zero of Gauge (m)</b> | : 44.5 (m.s.l)                   | 01-06-1984        | - 31-12-1999                    |
|                          | 44.5 (m.s.l)                     | 01-01-2000        | -                               |
|                          | Opening Date                     | Closing Date      |                                 |
| Gauge                    | : 23-02-1984                     |                   |                                 |
| Discharge                | : 07-06-1984                     |                   |                                 |
| Sediment                 | : 01-03-2014                     |                   |                                 |
| Water Quality            | : 01-06-1992                     |                   |                                 |

**Daily Observed Sediment Datasheet for period : 2021-2022**

Station Name : Madhira ( AKA10D2)

Local River : Wyra

Division : Lower Krishna Divn., Hyderabad

Sub-Division : Lower Krishna SD2, Vijayawada

| Day                   | Jun          |               |               |             |              |                   | Jul          |               |               |             |              |                   | Aug          |               |               |             |              |                   |
|-----------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                       | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1                     | 4.558        | 0.000         | 0.000         | 0.020       | 0.020        | 8                 | 3.861        | 0.000         | 0.000         | 0.033       | 0.033        | 11                | 19.96        | 0.000         | 0.000         | 0.029       | 0.029        | 51                |
| 2                     | 4.303        | 0.000         | 0.000         | 0.021       | 0.021        | 8                 | 7.171        | 0.000         | 0.000         | 0.033       | 0.033        | 20                | 23.19        | 0.000         | 0.000         | 0.035       | 0.035        | 71                |
| 3                     | 2.874        | 0.000         | 0.000         | 0.022       | 0.022        | 6                 | 8.170        | 0.000         | 0.000         | 0.035       | 0.035        | 24                | 18.51        | 0.000         | 0.000         | 0.025       | 0.025        | 41                |
| 4                     | 3.851        | 0.000         | 0.000         | 0.024       | 0.024        | 8                 | 7.250        | 0.000         | 0.000         | 0.026       | 0.026        | 16                | 16.29        | 0.000         | 0.000         | 0.025       | 0.025        | 35                |
| 5                     | 2.828        | 0.000         | 0.000         | 0.021       | 0.021        | 5                 | 6.424        | 0.000         | 0.000         | 0.028       | 0.028        | 16                | 16.65        | 0.000         | 0.000         | 0.026       | 0.026        | 37                |
| 6                     | 3.015        | 0.000         | 0.000         | 0.024       | 0.024        | 6                 | 6.817        | 0.000         | 0.000         | 0.029       | 0.029        | 17                | 18.80        | 0.000         | 0.000         | 0.028       | 0.028        | 45                |
| 7                     | 4.239        | 0.000         | 0.000         | 0.023       | 0.023        | 8                 | 7.176        | 0.000         | 0.000         | 0.031       | 0.031        | 19                | 15.42        | 0.000         | 0.000         | 0.026       | 0.026        | 35                |
| 8                     | 3.994        | 0.000         | 0.000         | 0.023       | 0.023        | 8                 | 7.458        | 0.000         | 0.000         | 0.032       | 0.032        | 21                | 13.66        | 0.000         | 0.000         | 0.028       | 0.028        | 33                |
| 9                     | 3.869        | 0.000         | 0.000         | 0.023       | 0.023        | 8                 | 6.743        | 0.000         | 0.000         | 0.031       | 0.031        | 18                | 10.46        | 0.000         | 0.000         | 0.021       | 0.021        | 19                |
| 10                    | 4.378        | 0.000         | 0.000         | 0.024       | 0.024        | 9                 | 8.138        | 0.000         | 0.000         | 0.034       | 0.034        | 24                | 13.31        | 0.000         | 0.000         | 0.021       | 0.021        | 24                |
| 11                    | 5.136        | 0.000         | 0.000         | 0.024       | 0.024        | 11                | 7.456        | 0.000         | 0.000         | 0.026       | 0.026        | 17                | 11.74        | 0.000         | 0.000         | 0.023       | 0.023        | 23                |
| 12                    | 5.389        | 0.000         | 0.000         | 0.028       | 0.028        | 13                | 9.639        | 0.000         | 0.000         | 0.031       | 0.031        | 26                | 12.53        | 0.000         | 0.000         | 0.023       | 0.023        | 24                |
| 13                    | 7.256        | 0.000         | 0.000         | 0.026       | 0.026        | 16                | 10.94        | 0.000         | 0.000         | 0.031       | 0.031        | 30                | 41.34        | 0.000         | 0.000         | 0.037       | 0.037        | 132               |
| 14                    | 10.47        | 0.000         | 0.000         | 0.022       | 0.022        | 20                | 19.32        | 0.000         | 0.000         | 0.034       | 0.034        | 56                | 39.08        | 0.000         | 0.000         | 0.033       | 0.033        | 110               |
| 15                    | 5.471        | 0.000         | 0.000         | 0.026       | 0.026        | 12                | 54.02        | 0.000         | 0.000         | 0.026       | 0.026        | 121               | 75.92        | 0.000         | 0.000         | 0.034       | 0.034        | 224               |
| 16                    | 5.160        | 0.000         | 0.000         | 0.021       | 0.021        | 9                 | 14.95        | 0.000         | 0.000         | 0.025       | 0.025        | 32                | 54.00        | 0.000         | 0.000         | 0.039       | 0.039        | 181               |
| 17                    | 4.665        | 0.000         | 0.000         | 0.021       | 0.021        | 9                 | 10.94        | 0.000         | 0.000         | 0.025       | 0.025        | 24                | 110.8        | 0.000         | 0.000         | 0.039       | 0.039        | 376               |
| 18                    | 4.244        | 0.000         | 0.000         | 0.019       | 0.019        | 7                 | 11.26        | 0.000         | 0.000         | 0.028       | 0.028        | 27                | 128.3        | 0.000         | 0.000         | 0.037       | 0.037        | 411               |
| 19                    | 4.049        | 0.000         | 0.000         | 0.020       | 0.020        | 7                 | 9.823        | 0.000         | 0.000         | 0.024       | 0.024        | 20                | 58.07        | 0.000         | 0.000         | 0.039       | 0.039        | 196               |
| 20                    | 4.256        | 0.000         | 0.000         | 0.025       | 0.025        | 9                 | 9.278        | 0.000         | 0.000         | 0.024       | 0.024        | 19                | 38.12        | 0.000         | 0.000         | 0.032       | 0.032        | 104               |
| 21                    | 4.968        | 0.000         | 0.000         | 0.023       | 0.023        | 10                | 9.780        | 0.000         | 0.000         | 0.027       | 0.027        | 23                | 37.93        | 0.000         | 0.000         | 0.028       | 0.028        | 92                |
| 22                    | 5.170        | 0.000         | 0.000         | 0.028       | 0.028        | 13                | 16.37        | 0.000         | 0.000         | 0.026       | 0.026        | 37                | 32.91        | 0.000         | 0.000         | 0.031       | 0.031        | 88                |
| 23                    | 5.258        | 0.000         | 0.000         | 0.030       | 0.030        | 14                | 994.6        | 0.000         | 0.000         | 0.111       | 0.111        | 9555              | 21.91        | 0.000         | 0.000         | 0.021       | 0.021        | 39                |
| 24                    | 5.195        | 0.000         | 0.000         | 0.028       | 0.028        | 13                | 282.3        | 0.000         | 0.000         | 0.048       | 0.048        | 1163              | 24.20        | 0.000         | 0.000         | 0.022       | 0.022        | 45                |
| 25                    | 4.221        | 0.000         | 0.000         | 0.031       | 0.031        | 11                | 85.25        | 0.000         | 0.000         | 0.035       | 0.035        | 254               | 19.05        | 0.000         | 0.000         | 0.017       | 0.017        | 28                |
| 26                    | 4.231        | 0.000         | 0.000         | 0.033       | 0.033        | 12                | 74.25        | 0.000         | 0.000         | 0.039       | 0.039        | 248               | 20.42        | 0.000         | 0.000         | 0.019       | 0.019        | 33                |
| 27                    | 4.956        | 0.000         | 0.000         | 0.025       | 0.025        | 11                | 41.05        | 0.000         | 0.000         | 0.038       | 0.038        | 134               | 41.77        | 0.000         | 0.000         | 0.024       | 0.024        | 88                |
| 28                    | 3.921        | 0.000         | 0.000         | 0.036       | 0.036        | 12                | 28.22        | 0.000         | 0.000         | 0.028       | 0.028        | 67                | 58.97        | 0.000         | 0.000         | 0.040       | 0.040        | 206               |
| 29                    | 4.257        | 0.000         | 0.000         | 0.036       | 0.036        | 13                | 25.31        | 0.000         | 0.000         | 0.028       | 0.028        | 61                | 137.8        | 0.000         | 0.000         | 0.036       | 0.036        | 433               |
| 30                    | 4.299        | 0.000         | 0.000         | 0.038       | 0.038        | 14                | 17.86        | 0.000         | 0.000         | 0.030       | 0.030        | 47                | 81.04        | 0.000         | 0.000         | 0.038       | 0.038        | 269               |
| 31                    |              |               |               |             |              |                   | 17.86        | 0.000         | 0.000         | 0.034       | 0.034        | 53                | 48.49        | 0.000         | 0.000         | 0.050       | 0.050        | 209               |
| <b>Ten Daily Mean</b> |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Ten Daily I           | 3.791        | 0.000         | 0.000         | 0.022       | 0.022        | 7                 | 6.921        | 0.000         | 0.000         | 0.031       | 0.031        | 19                | 16.63        | 0.000         | 0.000         | 0.026       | 0.026        | 39                |
| Ten Daily II          | 5.609        | 0.000         | 0.000         | 0.023       | 0.023        | 11                | 15.76        | 0.000         | 0.000         | 0.027       | 0.027        | 37                | 56.99        | 0.000         | 0.000         | 0.034       | 0.034        | 178               |
| Ten Daily III         | 4.648        | 0.000         | 0.000         | 0.031       | 0.031        | 12                | 144.8        | 0.000         | 0.000         | 0.040       | 0.040        | 1058              | 47.68        | 0.000         | 0.000         | 0.030       | 0.030        | 139               |
| <b>Monthly</b>        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| <b>Total</b>          |              |               |               |             |              | 308               |              |               |               |             |              | 12202             |              |               |               |             |              | 3702              |

Annual Sediment Load (Metric Tonnes) : 34519

**Daily Observed Sediment Datasheet for period : 2021-2022**

Station Name : Madhira ( AKA10D2)

Local River : Wyra

Division : Lower Krishna Divn., Hyderabad

Sub-Division : Lower Krishna SD2, Vijayawada

| Day            | Sep          |               |               |             |              |                   | Oct          |               |               |             |              |                   | Nov          |               |               |             |              |                   |
|----------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1              | 83.73        | 0.000         | 0.000         | 0.034       | 0.034        | 246               | 47.57        | 0.000         | 0.000         | 0.023       | 0.023        | 94                | 50.23        | 0.000         | 0.000         | 0.027       | 0.027        | 116               |
| 2              | 106.0        | 0.000         | 0.000         | 0.037       | 0.037        | 340               | 32.91        | 0.000         | 0.000         | 0.022       | 0.022        | 63                | 30.42        | 0.000         | 0.000         | 0.021       | 0.021        | 56                |
| 3              | 118.0        | 0.000         | 0.000         | 0.037       | 0.037        | 378               | 24.96        | 0.000         | 0.000         | 0.019       | 0.019        | 41                | 20.45        | 0.000         | 0.000         | 0.022       | 0.022        | 38                |
| 4              | 226.4        | 0.000         | 0.000         | 0.065       | 0.065        | 1261              | 23.73        | 0.000         | 0.000         | 0.018       | 0.018        | 37                | 17.32        | 0.000         | 0.000         | 0.016       | 0.016        | 23                |
| 5              | 134.7        | 0.000         | 0.000         | 0.048       | 0.048        | 563               | 17.53        | 0.000         | 0.000         | 0.018       | 0.018        | 27                | 15.25        | 0.000         | 0.000         | 0.012       | 0.012        | 15                |
| 6              | 84.54        | 0.000         | 0.000         | 0.038       | 0.038        | 274               | 17.11        | 0.000         | 0.000         | 0.017       | 0.017        | 25                | 15.07        | 0.000         | 0.000         | 0.011       | 0.011        | 14                |
| 7              | 455.0        | 0.000         | 0.000         | 0.070       | 0.070        | 2740              | 25.76        | 0.000         | 0.000         | 0.017       | 0.017        | 38                | 12.52        | 0.000         | 0.000         | 0.013       | 0.013        | 14                |
| 8              | 221.4        | 0.000         | 0.000         | 0.055       | 0.055        | 1060              | 19.10        | 0.000         | 0.000         | 0.018       | 0.018        | 30                | 15.05        | 0.000         | 0.000         | 0.011       | 0.011        | 14                |
| 9              | 91.80        | 0.000         | 0.000         | 0.042       | 0.042        | 334               | 16.06        | 0.000         | 0.000         | 0.015       | 0.015        | 21                | 18.23        | 0.000         | 0.000         | 0.016       | 0.016        | 26                |
| 10             | 45.56        | 0.000         | 0.000         | 0.027       | 0.027        | 104               | 15.44        | 0.000         | 0.000         | 0.015       | 0.015        | 19                | 16.14        | 0.000         | 0.000         | 0.015       | 0.015        | 21                |
| 11             | 32.07        | 0.000         | 0.000         | 0.022       | 0.022        | 60                | 16.11        | 0.000         | 0.000         | 0.016       | 0.016        | 22                | 15.30        | 0.000         | 0.000         | 0.014       | 0.014        | 18                |
| 12             | 19.29        | 0.000         | 0.000         | 0.017       | 0.017        | 27                | 17.76        | 0.000         | 0.000         | 0.020       | 0.020        | 31                | 17.19        | 0.000         | 0.000         | 0.014       | 0.014        | 21                |
| 13             | 18.91        | 0.000         | 0.000         | 0.016       | 0.016        | 26                | 13.08        | 0.000         | 0.000         | 0.015       | 0.015        | 17                | 16.06        | 0.000         | 0.000         | 0.015       | 0.015        | 21                |
| 14             | 22.91        | 0.000         | 0.000         | 0.020       | 0.020        | 40                | 17.28        | 0.000         | 0.000         | 0.020       | 0.020        | 30                | 42.71        | 0.000         | 0.000         | 0.026       | 0.026        | 94                |
| 15             | 20.47        | 0.000         | 0.000         | 0.020       | 0.020        | 35                | 18.62        | 0.000         | 0.000         | 0.016       | 0.016        | 26                | 25.80        | 0.000         | 0.000         | 0.018       | 0.018        | 41                |
| 16             | 21.58        | 0.000         | 0.000         | 0.020       | 0.020        | 37                | 31.43        | 0.000         | 0.000         | 0.021       | 0.021        | 58                | 19.05        | 0.000         | 0.000         | 0.015       | 0.015        | 25                |
| 17             | 15.21        | 0.000         | 0.000         | 0.015       | 0.015        | 20                | 25.71        | 0.000         | 0.000         | 0.019       | 0.019        | 43                | 15.93        | 0.000         | 0.000         | 0.013       | 0.013        | 18                |
| 18             | 12.69        | 0.000         | 0.000         | 0.015       | 0.015        | 16                | 42.75        | 0.000         | 0.000         | 0.026       | 0.026        | 94                | 11.39        | 0.000         | 0.000         | 0.012       | 0.012        | 12                |
| 19             | 11.97        | 0.000         | 0.000         | 0.013       | 0.013        | 13                | 24.22        | 0.000         | 0.000         | 0.019       | 0.019        | 39                | 8.879        | 0.000         | 0.000         | 0.011       | 0.011        | 8                 |
| 20             | 17.26        | 0.000         | 0.000         | 0.016       | 0.016        | 24                | 20.34        | 0.000         | 0.000         | 0.021       | 0.021        | 37                | 15.65        | 0.000         | 0.000         | 0.013       | 0.013        | 17                |
| 21             | 62.49        | 0.000         | 0.000         | 0.048       | 0.048        | 259               | 21.22        | 0.000         | 0.000         | 0.023       | 0.023        | 43                | 12.52        | 0.000         | 0.000         | 0.013       | 0.013        | 14                |
| 22             | 77.34        | 0.000         | 0.000         | 0.052       | 0.052        | 345               | 16.88        | 0.000         | 0.000         | 0.014       | 0.014        | 21                | 13.52        | 0.000         | 0.000         | 0.012       | 0.012        | 14                |
| 23             | 61.07        | 0.000         | 0.000         | 0.045       | 0.045        | 240               | 18.09        | 0.000         | 0.000         | 0.017       | 0.017        | 26                | 16.02        | 0.000         | 0.000         | 0.014       | 0.014        | 19                |
| 24             | 42.39        | 0.000         | 0.000         | 0.026       | 0.026        | 96                | 15.44        | 0.000         | 0.000         | 0.015       | 0.015        | 19                | 15.24        | 0.000         | 0.000         | 0.013       | 0.013        | 18                |
| 25             | 24.45        | 0.000         | 0.000         | 0.018       | 0.018        | 38                | 16.71        | 0.000         | 0.000         | 0.013       | 0.013        | 19                | 11.66        | 0.000         | 0.000         | 0.012       | 0.012        | 12                |
| 26             | 28.82        | 0.000         | 0.000         | 0.021       | 0.021        | 51                | 16.40        | 0.000         | 0.000         | 0.011       | 0.011        | 16                | 10.42        | 0.000         | 0.000         | 0.013       | 0.013        | 11                |
| 27             | 57.64        | 0.000         | 0.000         | 0.042       | 0.042        | 210               | 15.08        | 0.000         | 0.000         | 0.011       | 0.011        | 14                | 9.595        | 0.000         | 0.000         | 0.013       | 0.013        | 11                |
| 28             | 941.7        | 0.000         | 0.000         | 0.070       | 0.070        | 5695              | 15.18        | 0.000         | 0.000         | 0.009       | 0.009        | 12                | 5.001        | 0.000         | 0.000         | 0.008       | 0.008        | 3                 |
| 29             | 137.6        | 0.000         | 0.000         | 0.042       | 0.042        | 504               | 15.26        | 0.000         | 0.000         | 0.011       | 0.011        | 14                | 9.535        | 0.000         | 0.000         | 0.014       | 0.014        | 11                |
| 30             | 83.95        | 0.000         | 0.000         | 0.043       | 0.043        | 314               | 17.62        | 0.000         | 0.000         | 0.013       | 0.013        | 20                | 10.88        | 0.000         | 0.000         | 0.013       | 0.013        | 12                |
| 31             |              |               |               |             |              |                   | 71.19        | 0.000         | 0.000         | 0.034       | 0.034        | 209               |              |               |               |             |              |                   |
| Ten Daily Mean |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Ten Daily I    | 156.7        | 0.000         | 0.000         | 0.045       | 0.045        | 730               | 24.02        | 0.000         | 0.000         | 0.018       | 0.018        | 39                | 21.07        | 0.000         | 0.000         | 0.016       | 0.016        | 34                |
| Ten Daily II   | 19.24        | 0.000         | 0.000         | 0.017       | 0.017        | 30                | 22.73        | 0.000         | 0.000         | 0.019       | 0.019        | 40                | 18.79        | 0.000         | 0.000         | 0.015       | 0.015        | 28                |
| Ten Daily III  | 151.7        | 0.000         | 0.000         | 0.041       | 0.041        | 775               | 21.73        | 0.000         | 0.000         | 0.016       | 0.016        | 38                | 11.44        | 0.000         | 0.000         | 0.012       | 0.012        | 13                |
| Monthly        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Total          |              |               |               |             |              | 15352             |              |               |               |             |              | 1205              |              |               |               |             |              | 739               |

Annual Sediment Load (Metric Tonnes) : 34519

**Daily Observed Sediment Datasheet for period : 2021-2022**

Station Name : Madhira ( AKA10D2)

Local River : Wyra

Division : Lower Krishna Divn., Hyderabad

Sub-Division : Lower Krishna SD2, Vijayawada

| Day            | Dec          |               |               |             |              |                   | Jan          |               |               |             |              |                   | Feb          |               |               |             |              |                   |
|----------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1              | 11.59        | 0.000         | 0.000         | 0.017       | 0.017        | 17                | 8.606        | 0.000         | 0.000         | 0.015       | 0.015        | 11                | 4.723        | 0.000         | 0.000         | 0.012       | 0.012        | 5                 |
| 2              | 12.16        | 0.000         | 0.000         | 0.018       | 0.018        | 19                | 8.142        | 0.000         | 0.000         | 0.014       | 0.014        | 10                | 4.934        | 0.000         | 0.000         | 0.012       | 0.012        | 5                 |
| 3              | 10.78        | 0.000         | 0.000         | 0.017       | 0.017        | 16                | 11.09        | 0.000         | 0.000         | 0.018       | 0.018        | 17                | 4.791        | 0.000         | 0.000         | 0.012       | 0.012        | 5                 |
| 4              | 11.71        | 0.000         | 0.000         | 0.017       | 0.017        | 18                | 10.73        | 0.000         | 0.000         | 0.017       | 0.017        | 15                | 4.544        | 0.000         | 0.000         | 0.012       | 0.012        | 5                 |
| 5              | 12.42        | 0.000         | 0.000         | 0.018       | 0.018        | 19                | 10.47        | 0.000         | 0.000         | 0.016       | 0.016        | 15                | 4.700        | 0.000         | 0.000         | 0.012       | 0.012        | 5                 |
| 6              | 10.02        | 0.000         | 0.000         | 0.014       | 0.014        | 12                | 11.04        | 0.000         | 0.000         | 0.017       | 0.017        | 16                | 3.680        | 0.000         | 0.000         | 0.012       | 0.012        | 4                 |
| 7              | 10.12        | 0.000         | 0.000         | 0.016       | 0.016        | 14                | 10.44        | 0.000         | 0.000         | 0.016       | 0.016        | 15                | 2.478        | 0.000         | 0.000         | 0.011       | 0.011        | 2                 |
| 8              | 9.376        | 0.000         | 0.000         | 0.015       | 0.015        | 12                | 8.548        | 0.000         | 0.000         | 0.015       | 0.015        | 11                | 2.322        | 0.000         | 0.000         | 0.013       | 0.013        | 3                 |
| 9              | 9.234        | 0.000         | 0.000         | 0.015       | 0.015        | 12                | 8.965        | 0.000         | 0.000         | 0.015       | 0.015        | 12                | 2.673        | 0.000         | 0.000         | 0.012       | 0.012        | 3                 |
| 10             | 10.58        | 0.000         | 0.000         | 0.016       | 0.016        | 15                | 9.485        | 0.000         | 0.000         | 0.015       | 0.015        | 12                | 4.399        | 0.000         | 0.000         | 0.012       | 0.012        | 5                 |
| 11             | 8.965        | 0.000         | 0.000         | 0.015       | 0.015        | 12                | 6.299        | 0.000         | 0.000         | 0.013       | 0.013        | 7                 | 4.686        | 0.000         | 0.000         | 0.012       | 0.012        | 5                 |
| 12             | 10.05        | 0.000         | 0.000         | 0.016       | 0.016        | 14                | 6.020        | 0.000         | 0.000         | 0.013       | 0.013        | 7                 | 3.945        | 0.000         | 0.000         | 0.012       | 0.012        | 4                 |
| 13             | 7.107        | 0.000         | 0.000         | 0.015       | 0.015        | 9                 | 4.258        | 0.000         | 0.000         | 0.012       | 0.012        | 4                 | 3.551        | 0.000         | 0.000         | 0.012       | 0.012        | 4                 |
| 14             | 7.659        | 0.000         | 0.000         | 0.014       | 0.014        | 9                 | 5.756        | 0.000         | 0.000         | 0.013       | 0.013        | 6                 | 2.052        | 0.000         | 0.000         | 0.010       | 0.010        | 2                 |
| 15             | 7.027        | 0.000         | 0.000         | 0.014       | 0.014        | 8                 | 5.830        | 0.000         | 0.000         | 0.013       | 0.013        | 6                 | 2.215        | 0.000         | 0.000         | 0.013       | 0.013        | 3                 |
| 16             | 6.850        | 0.000         | 0.000         | 0.013       | 0.013        | 8                 | 5.924        | 0.000         | 0.000         | 0.013       | 0.013        | 7                 | 1.593        | 0.000         | 0.000         | 0.015       | 0.015        | 2                 |
| 17             | 4.154        | 0.000         | 0.000         | 0.012       | 0.012        | 4                 | 5.049        | 0.000         | 0.000         | 0.012       | 0.012        | 5                 | 1.771        | 0.000         | 0.000         | 0.014       | 0.014        | 2                 |
| 18             | 3.936        | 0.000         | 0.000         | 0.012       | 0.012        | 4                 | 5.817        | 0.000         | 0.000         | 0.013       | 0.013        | 6                 | 2.301        | 0.000         | 0.000         | 0.013       | 0.013        | 3                 |
| 19             | 4.507        | 0.000         | 0.000         | 0.012       | 0.012        | 5                 | 3.524        | 0.000         | 0.000         | 0.012       | 0.012        | 4                 | 2.082        | 0.000         | 0.000         | 0.013       | 0.013        | 2                 |
| 20             | 2.519        | 0.000         | 0.000         | 0.017       | 0.017        | 4                 | 3.948        | 0.000         | 0.000         | 0.012       | 0.012        | 4                 | 2.833        | 0.000         | 0.000         | 0.012       | 0.012        | 3                 |
| 21             | 3.775        | 0.000         | 0.000         | 0.012       | 0.012        | 4                 | 3.450        | 0.000         | 0.000         | 0.012       | 0.012        | 4                 | 2.768        | 0.000         | 0.000         | 0.015       | 0.015        | 4                 |
| 22             | 4.884        | 0.000         | 0.000         | 0.012       | 0.012        | 5                 | 3.378        | 0.000         | 0.000         | 0.012       | 0.012        | 4                 | 5.933        | 0.000         | 0.000         | 0.013       | 0.013        | 7                 |
| 23             | 4.660        | 0.000         | 0.000         | 0.012       | 0.012        | 5                 | 3.180        | 0.000         | 0.000         | 0.012       | 0.012        | 3                 | 6.378        | 0.000         | 0.000         | 0.013       | 0.013        | 7                 |
| 24             | 4.365        | 0.000         | 0.000         | 0.012       | 0.012        | 5                 | 4.688        | 0.000         | 0.000         | 0.011       | 0.011        | 4                 | 3.982        | 0.000         | 0.000         | 0.012       | 0.012        | 4                 |
| 25             | 4.507        | 0.000         | 0.000         | 0.012       | 0.012        | 5                 | 5.263        | 0.000         | 0.000         | 0.012       | 0.012        | 6                 | 4.473        | 0.000         | 0.000         | 0.012       | 0.012        | 5                 |
| 26             | 3.945        | 0.000         | 0.000         | 0.012       | 0.012        | 4                 | 5.111        | 0.000         | 0.000         | 0.012       | 0.012        | 5                 | 4.717        | 0.000         | 0.000         | 0.012       | 0.012        | 5                 |
| 27             | 8.119        | 0.000         | 0.000         | 0.013       | 0.013        | 9                 | 6.096        | 0.000         | 0.000         | 0.013       | 0.013        | 7                 | 4.507        | 0.000         | 0.000         | 0.012       | 0.012        | 5                 |
| 28             | 8.305        | 0.000         | 0.000         | 0.015       | 0.015        | 10                | 6.122        | 0.000         | 0.000         | 0.013       | 0.013        | 7                 | 3.278        | 0.000         | 0.000         | 0.010       | 0.010        | 3                 |
| 29             | 7.789        | 0.000         | 0.000         | 0.014       | 0.014        | 10                | 5.035        | 0.000         | 0.000         | 0.012       | 0.012        | 5                 |              |               |               |             |              |                   |
| 30             | 8.424        | 0.000         | 0.000         | 0.015       | 0.015        | 11                | 5.428        | 0.000         | 0.000         | 0.013       | 0.013        | 6                 |              |               |               |             |              |                   |
| 31             | 8.686        | 0.000         | 0.000         | 0.015       | 0.015        | 11                | 4.891        | 0.000         | 0.000         | 0.013       | 0.013        | 5                 |              |               |               |             |              |                   |
| Ten Daily Mean |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Ten Daily I    | 10.80        | 0.000         | 0.000         | 0.016       | 0.016        | 15                | 9.751        | 0.000         | 0.000         | 0.016       | 0.016        | 13                | 3.924        | 0.000         | 0.000         | 0.012       | 0.012        | 4                 |
| Ten Daily II   | 6.278        | 0.000         | 0.000         | 0.014       | 0.014        | 8                 | 5.242        | 0.000         | 0.000         | 0.013       | 0.013        | 6                 | 2.703        | 0.000         | 0.000         | 0.013       | 0.013        | 3                 |
| Ten Daily III  | 6.133        | 0.000         | 0.000         | 0.013       | 0.013        | 7                 | 4.786        | 0.000         | 0.000         | 0.012       | 0.012        | 5                 | 4.505        | 0.000         | 0.000         | 0.012       | 0.012        | 5                 |
| Monthly        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Total          |              |               |               |             |              | 309               |              |               |               |             |              | 247               |              |               |               |             |              | 109               |

Annual Sediment Load (Metric Tonnes) : 34519

**Daily Observed Sediment Datasheet for period : 2021-2022**

Station Name : Madhira ( AKA10D2)

Local River : Wyra

Division : Lower Krishna Divn., Hyderabad

Sub-Division : Lower Krishna SD2, Vijayawada

| Day            | Mar          |               |               |             |              |                   | Apr          |               |               |             |              |                   | May          |               |               |             |              |                   |
|----------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1              | 3.220        | 0.000         | 0.000         | 0.012       | 0.012        | 3                 | 2.604        | 0.000         | 0.000         | 0.013       | 0.013        | 3                 | 3.301        | 0.000         | 0.000         | 0.012       | 0.012        | 3                 |
| 2              | 3.068        | 0.000         | 0.000         | 0.012       | 0.012        | 3                 | 2.328        | 0.000         | 0.000         | 0.013       | 0.013        | 3                 | 1.947        | 0.000         | 0.000         | 0.012       | 0.012        | 2                 |
| 3              | 2.946        | 0.000         | 0.000         | 0.012       | 0.012        | 3                 | 2.510        | 0.000         | 0.000         | 0.013       | 0.013        | 3                 | 2.407        | 0.000         | 0.000         | 0.013       | 0.013        | 3                 |
| 4              | 2.728        | 0.000         | 0.000         | 0.012       | 0.012        | 3                 | 4.638        | 0.000         | 0.000         | 0.012       | 0.012        | 5                 | 3.163        | 0.000         | 0.000         | 0.012       | 0.012        | 3                 |
| 5              | 4.400        | 0.000         | 0.000         | 0.012       | 0.012        | 5                 | 3.933        | 0.000         | 0.000         | 0.012       | 0.012        | 4                 | 3.295        | 0.000         | 0.000         | 0.012       | 0.012        | 3                 |
| 6              | 4.363        | 0.000         | 0.000         | 0.012       | 0.012        | 5                 | 3.401        | 0.000         | 0.000         | 0.012       | 0.012        | 4                 | 2.226        | 0.000         | 0.000         | 0.013       | 0.013        | 3                 |
| 7              | 3.916        | 0.000         | 0.000         | 0.013       | 0.013        | 4                 | 3.221        | 0.000         | 0.000         | 0.012       | 0.012        | 3                 | 2.006        | 0.000         | 0.000         | 0.014       | 0.014        | 2                 |
| 8              | 4.497        | 0.000         | 0.000         | 0.012       | 0.012        | 5                 | 3.489        | 0.000         | 0.000         | 0.012       | 0.012        | 4                 | 2.209        | 0.000         | 0.000         | 0.013       | 0.013        | 3                 |
| 9              | 4.754        | 0.000         | 0.000         | 0.012       | 0.012        | 5                 | 3.062        | 0.000         | 0.000         | 0.012       | 0.012        | 3                 | 3.253        | 0.000         | 0.000         | 0.012       | 0.012        | 3                 |
| 10             | 6.369        | 0.000         | 0.000         | 0.013       | 0.013        | 7                 | 2.615        | 0.000         | 0.000         | 0.013       | 0.013        | 3                 | 3.207        | 0.000         | 0.000         | 0.012       | 0.012        | 3                 |
| 11             | 6.089        | 0.000         | 0.000         | 0.013       | 0.013        | 7                 | 4.180        | 0.000         | 0.000         | 0.013       | 0.013        | 5                 | 3.578        | 0.000         | 0.000         | 0.012       | 0.012        | 4                 |
| 12             | 5.268        | 0.000         | 0.000         | 0.012       | 0.012        | 6                 | 3.740        | 0.000         | 0.000         | 0.012       | 0.012        | 4                 | 4.021        | 0.000         | 0.000         | 0.012       | 0.012        | 4                 |
| 13             | 4.082        | 0.000         | 0.000         | 0.012       | 0.012        | 4                 | 3.590        | 0.000         | 0.000         | 0.012       | 0.012        | 4                 | 4.334        | 0.000         | 0.000         | 0.012       | 0.012        | 5                 |
| 14             | 3.623        | 0.000         | 0.000         | 0.013       | 0.013        | 4                 | 3.425        | 0.000         | 0.000         | 0.012       | 0.012        | 4                 | 4.082        | 0.000         | 0.000         | 0.012       | 0.012        | 4                 |
| 15             | 3.836        | 0.000         | 0.000         | 0.012       | 0.012        | 4                 | 3.062        | 0.000         | 0.000         | 0.012       | 0.012        | 3                 | 3.680        | 0.000         | 0.000         | 0.012       | 0.012        | 4                 |
| 16             | 2.897        | 0.000         | 0.000         | 0.012       | 0.012        | 3                 | 4.305        | 0.000         | 0.000         | 0.012       | 0.012        | 5                 | 3.301        | 0.000         | 0.000         | 0.012       | 0.012        | 3                 |
| 17             | 3.081        | 0.000         | 0.000         | 0.012       | 0.012        | 3                 | 3.680        | 0.000         | 0.000         | 0.012       | 0.012        | 4                 | 1.663        | 0.000         | 0.000         | 0.015       | 0.015        | 2                 |
| 18             | 2.946        | 0.000         | 0.000         | 0.012       | 0.012        | 3                 | 3.288        | 0.000         | 0.000         | 0.014       | 0.014        | 4                 | 1.332        | 0.000         | 0.000         | 0.017       | 0.017        | 2                 |
| 19             | 2.752        | 0.000         | 0.000         | 0.012       | 0.012        | 3                 | 3.522        | 0.000         | 0.000         | 0.012       | 0.012        | 4                 | 1.241        | 0.000         | 0.000         | 0.017       | 0.017        | 2                 |
| 20             | 2.615        | 0.000         | 0.000         | 0.013       | 0.013        | 3                 | 4.266        | 0.000         | 0.000         | 0.012       | 0.012        | 4                 | 1.197        | 0.000         | 0.000         | 0.018       | 0.018        | 2                 |
| 21             | 3.082        | 0.000         | 0.000         | 0.015       | 0.015        | 4                 | 3.710        | 0.000         | 0.000         | 0.012       | 0.012        | 4                 | 1.282        | 0.000         | 0.000         | 0.017       | 0.017        | 2                 |
| 22             | 2.774        | 0.000         | 0.000         | 0.012       | 0.012        | 3                 | 3.316        | 0.000         | 0.000         | 0.012       | 0.012        | 3                 | 1.680        | 0.000         | 0.000         | 0.015       | 0.015        | 2                 |
| 23             | 2.544        | 0.000         | 0.000         | 0.013       | 0.013        | 3                 | 3.549        | 0.000         | 0.000         | 0.012       | 0.012        | 4                 | 1.194        | 0.000         | 0.000         | 0.014       | 0.014        | 1                 |
| 24             | 6.055        | 0.000         | 0.000         | 0.013       | 0.013        | 7                 | 3.811        | 0.000         | 0.000         | 0.012       | 0.012        | 4                 | 1.228        | 0.000         | 0.000         | 0.017       | 0.017        | 2                 |
| 25             | 11.16        | 0.000         | 0.000         | 0.017       | 0.017        | 16                | 3.466        | 0.000         | 0.000         | 0.011       | 0.011        | 3                 | 1.401        | 0.000         | 0.000         | 0.016       | 0.016        | 2                 |
| 26             | 8.098        | 0.000         | 0.000         | 0.014       | 0.014        | 10                | 3.121        | 0.000         | 0.000         | 0.012       | 0.012        | 3                 | 1.154        | 0.000         | 0.000         | 0.018       | 0.018        | 2                 |
| 27             | 6.622        | 0.000         | 0.000         | 0.013       | 0.013        | 8                 | 3.640        | 0.000         | 0.000         | 0.012       | 0.012        | 4                 | 1.434        | 0.000         | 0.000         | 0.016       | 0.016        | 2                 |
| 28             | 4.854        | 0.000         | 0.000         | 0.012       | 0.012        | 5                 | 4.200        | 0.000         | 0.000         | 0.012       | 0.012        | 4                 | 1.636        | 0.000         | 0.000         | 0.015       | 0.015        | 2                 |
| 29             | 4.408        | 0.000         | 0.000         | 0.012       | 0.012        | 5                 | 4.393        | 0.000         | 0.000         | 0.012       | 0.012        | 5                 | 1.846        | 0.000         | 0.000         | 0.014       | 0.014        | 2                 |
| 30             | 3.851        | 0.000         | 0.000         | 0.012       | 0.012        | 4                 | 4.152        | 0.000         | 0.000         | 0.012       | 0.012        | 4                 | 1.352        | 0.000         | 0.000         | 0.015       | 0.015        | 2                 |
| 31             | 3.544        | 0.000         | 0.000         | 0.012       | 0.012        | 4                 |              |               |               |             |              |                   | 1.420        | 0.000         | 0.000         | 0.016       | 0.016        | 2                 |
| Ten Daily Mean |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Ten Daily I    | 4.026        | 0.000         | 0.000         | 0.012       | 0.012        | 4                 | 3.180        | 0.000         | 0.000         | 0.012       | 0.012        | 3                 | 2.701        | 0.000         | 0.000         | 0.013       | 0.013        | 3                 |
| Ten Daily II   | 3.719        | 0.000         | 0.000         | 0.012       | 0.012        | 4                 | 3.706        | 0.000         | 0.000         | 0.012       | 0.012        | 4                 | 2.843        | 0.000         | 0.000         | 0.014       | 0.014        | 3                 |
| Ten Daily III  | 5.181        | 0.000         | 0.000         | 0.013       | 0.013        | 6                 | 3.736        | 0.000         | 0.000         | 0.012       | 0.012        | 4                 | 1.420        | 0.000         | 0.000         | 0.016       | 0.016        | 2                 |
| Monthly        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Total          |              |               |               |             |              | 151               |              |               |               |             |              | 112               |              |               |               |             |              | 82                |

Annual Sediment Load (Metric Tonnes) : 34519

**Annual Sediment Load for period : 2014-2022****Station Name : Madhira ( AKA10D2)****Division : Lower Krishna Divn., Hyderabad****Local River : Wyra****Sub-Division : Lower Krishna SD2, Vijayawada**

| Year      | Monsoon<br>(M.T.) | Non-Monsoon<br>(M.T.) | Annual Load<br>(M.T.) | Annual Run Off<br>(MCM) |
|-----------|-------------------|-----------------------|-----------------------|-------------------------|
| 2014-2015 | 872               | 243                   | 1115                  | 246                     |
| 2015-2016 | 612               | 2                     | 613                   | 191                     |
| 2016-2017 | 181               | 24                    | 205                   | 75                      |
| 2017-2018 | 346               | 113                   | 460                   | 161                     |
| 2018-2019 | 48563             | 1335                  | 49898                 | 478                     |
| 2019-2020 | 24712             | 1210                  | 25923                 | 267                     |
| 2020-2021 | 50519             | 2265                  | 52784                 | 948                     |
| 2021-2022 | 33509             | 1011                  | 34519                 | 741                     |

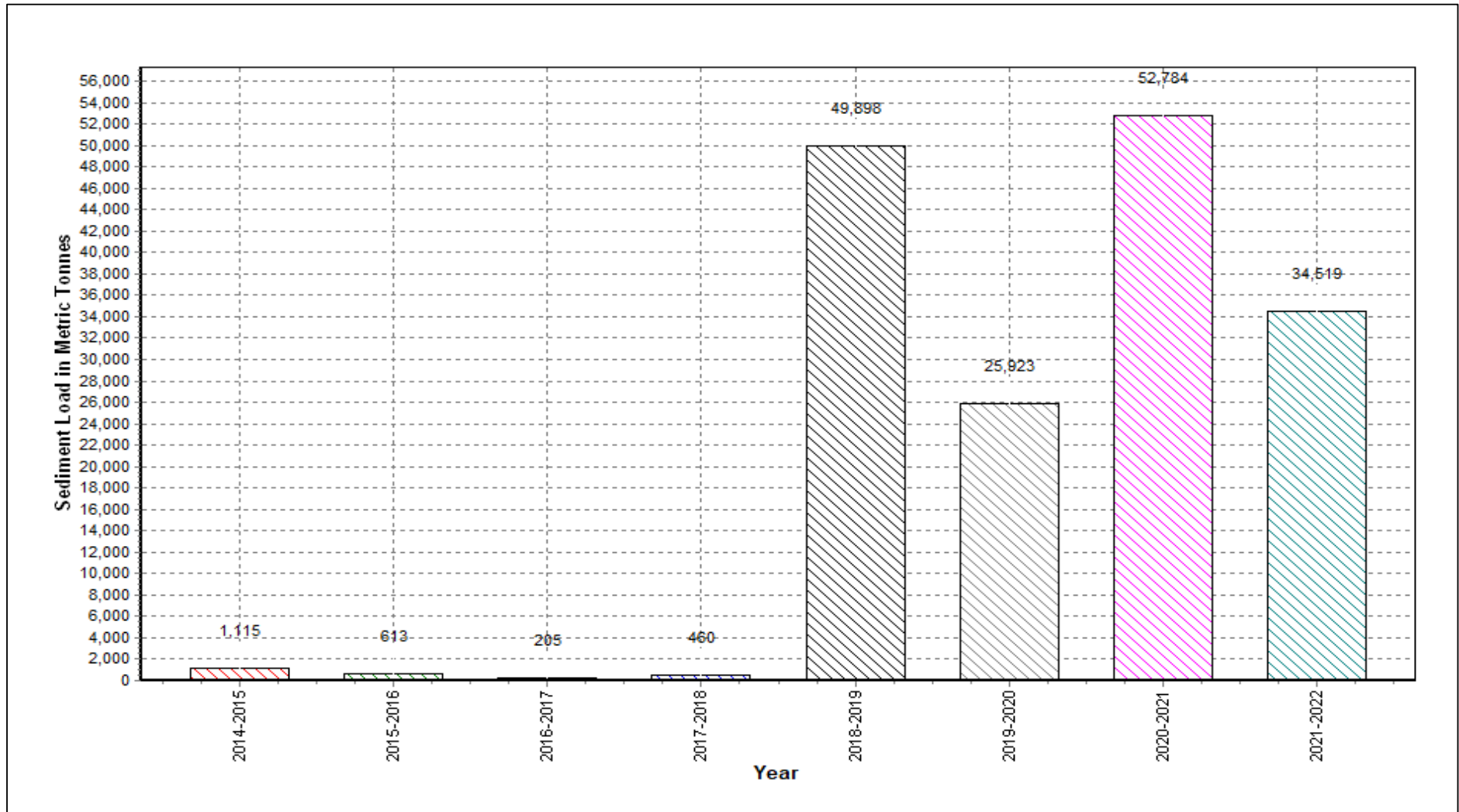
Annual Sediment Load for the period: 2014-2022

Station Name : Madhira ( AKA10D2)

Local River : Wyra

Division : Lower Krishna Divn., Hyderabad

Sub-Division : Lower Krishna SD2, Vijayawada



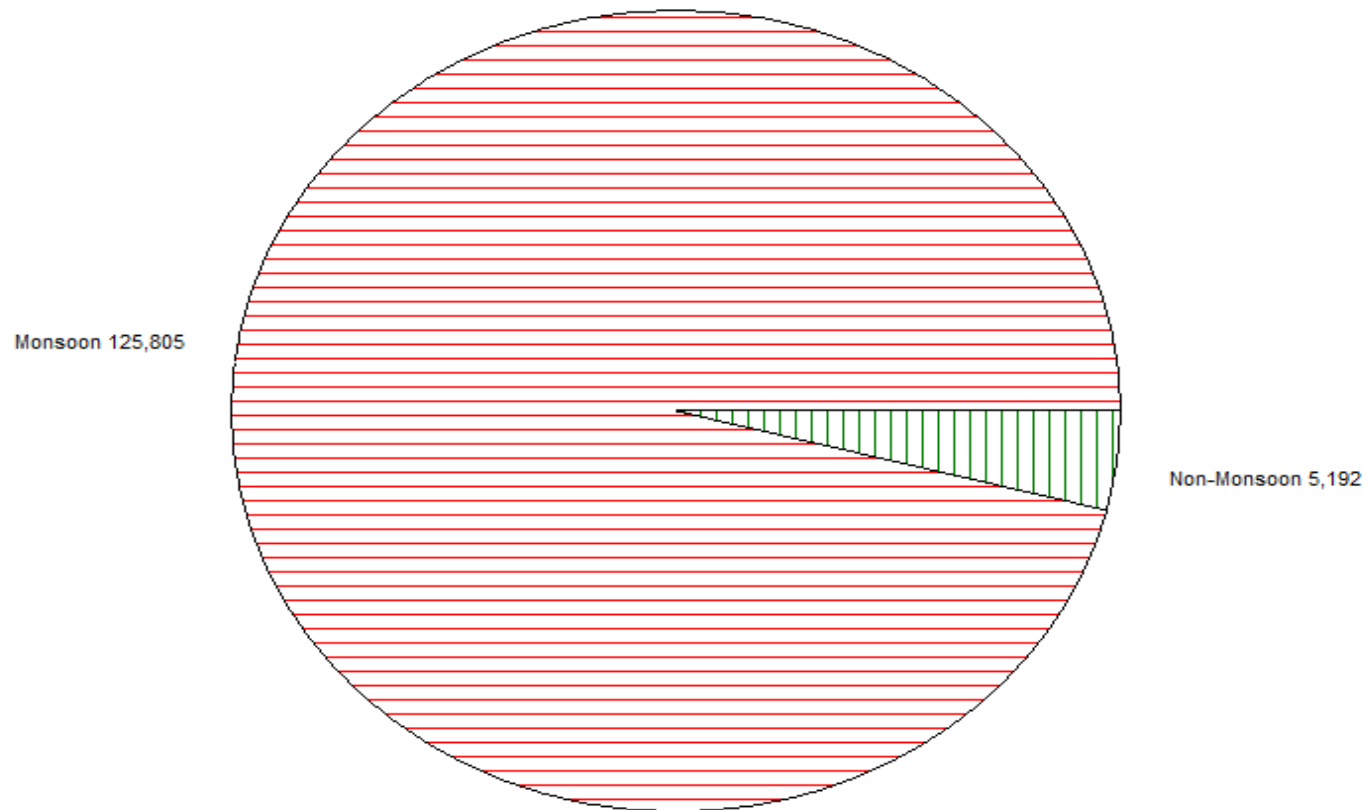
Seasonal Sediment Load for the period : 2014-2021

Station Name : Madhira ( AKA10D2)

Local River : Wyra

Division : Lower Krishna Divn., Hyderabad

Sub-Division : Lower Krishna SD2, Vijayawada





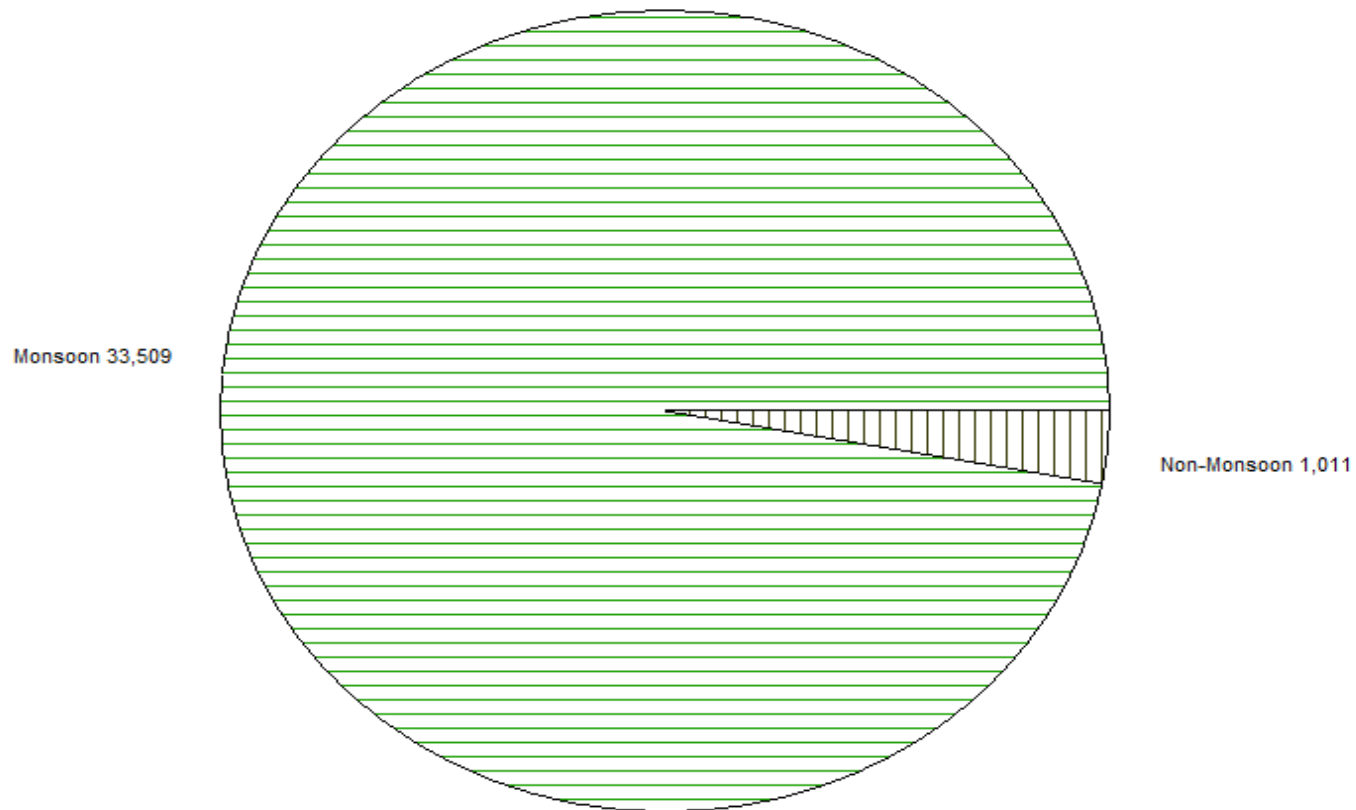
Seasonal Sediment Load for the Year: 2021-2022

Station Name : Madhira ( AKA10D2)

Local River : Wyra

Division : Lower Krishna Divn., Hyderabad

Sub-Division : Lower Krishna SD2, Vijayawada



**BED MATERIAL ANALYSIS DATA FOR THE YEAR 2021-22**

SITE : WYRA AT MADHIRA CODE : AKA10D2  
MEASURING : LKDN CROSS SECTION : Station gauge line  
AUTHORITY

**Premonsoon Survey ( Date 25-05-2021 )**

Discharge Observed : 5.585 cumec Water edge RB 103.00 m LB : 76.00 m  
Area of section : 8.92 sq.m MeanVelocit : 0.6261 m/sec  
Wetted perimeter : 27.06 Hydraulic Mean Depth : 0.3297 m

| Sl. No | R.D.of sampling point in meters | R.L. of bed in meters | Mean diameter in mm | Remarks                               |
|--------|---------------------------------|-----------------------|---------------------|---------------------------------------|
| 1      | 60                              | 47.910                | 2.49                |                                       |
| 2      | 120                             | 44.390                | 3.41                | Av.mean                               |
| 3      | 180                             | 45.090                | 0.42                | dia "m" = <b>1.52</b>                 |
| 4      | 240                             | 44.430                | 0.77                | Silt factor                           |
| 5      | 300                             | 49.020                | 0.51                | "f" =1.76 $\sqrt{m}$<br>= <b>2.17</b> |

**Note :** i. Discharge observation was at station gauge line.  
ii. River bed : Flowing water.

**Monsoon Survey ( Date 18-09-2021 )**

Discharge Observed : 12.71 cumec Water edge RB 260.00 m LB : 212.00 m  
Area of section : 29.46 sq.m MeanVelocit : 0.4314 m/sec  
Wetted perimeter : 48.08 Hydraulic Mean Depth : 0.6127 m

| Sl. No | R.D.of sampling point in meters | R.L. of bed in meters | Mean diameter in mm | Remarks                               |
|--------|---------------------------------|-----------------------|---------------------|---------------------------------------|
| 1      | 60                              | 47.850                | 0.58                |                                       |
| 2      | 120                             | 45.020                | 0.46                | Av.mean                               |
| 3      | 180                             | 45.150                | 2.65                | dia "m" = <b>1.19</b>                 |
| 4      | 240                             | 44.170                | 1.74                | Silt factor                           |
| 5      | 300                             | 49.130                | 0.51                | "f" =1.76 $\sqrt{m}$<br>= <b>1.92</b> |

**Note :** i. Discharge observation was at station gauge line.  
ii. River bed : Flowing water.

## HISTORY SHEET

|                          |                                  |                   |                                 |
|--------------------------|----------------------------------|-------------------|---------------------------------|
|                          |                                  | <b>Water Year</b> | <b>: 2021-2022</b>              |
| <b>Site</b>              | <b>: Keesara</b>                 | <b>Code</b>       | <b>: AKA00B4</b>                |
| State                    | : Andhra Pradesh                 | District          | Krishna                         |
| Basin                    | : Krishna                        | Independent River | : Krishna                       |
| Tributary                | : Munneru                        | Sub Tributary     | : -                             |
| Sub-Sub Tributary        | : -                              | Local River       | : Munneru                       |
| Division                 | : Lower Krishna Divn., Hyderabad | Sub-Division      | : Lower Krishna SD2, Vijayawada |
| Drainage Area            | : 9854 Sq. Km.                   | Bank              | : Left                          |
| Latitude                 | : 16°42'53"                      | Longitude         | : 80°19'13"                     |
| <b>Zero of Gauge (m)</b> | : 28.585 (m.s.l)                 | 01-04-1964        | - 04-08-1970                    |
|                          | 28.186 (m.s.l)                   | 05-08-1970        | - 31-01-1972                    |
|                          | 27.186 (m.s.l)                   | 01-02-1972        | - 31-05-1972                    |
|                          | 27.035 (m.s.l)                   | 01-06-1972        | - 31-05-1984                    |
|                          | 27.5 (m.s.l)                     | 01-06-1984        | - 31-12-1999                    |
|                          | 27.5 (m.s.l)                     | 01-01-2000        | -                               |
| Opening Date             |                                  | Closing Date      |                                 |
| Gauge                    | : 23-09-1963                     |                   |                                 |
| Discharge                | : 01-06-1965                     |                   |                                 |
| Sediment                 | : 02-07-1965                     |                   |                                 |
| Water Quality            | : 01-01-1972                     |                   |                                 |

| Day            | Jun          |               |               |             |              |                   | Jul          |               |               |             |              |                   | Aug          |               |               |             |              |                   |
|----------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1              | 2.141        | 0.000         | 0.000         | 0.127       | 0.127        | 23                | 31.24        | 0.000         | 0.000         | 0.016       | 0.016        | 44                | 54.93        | 0.000         | 0.000         | 0.053       | 0.053        | 249               |
| 2              | 4.115        | 0.000         | 0.000         | 0.019       | 0.019        | 7                 | 28.50        | 0.000         | 0.000         | 0.057       | 0.057        | 140               | 28.95        | 0.000         | 0.000         | 0.066       | 0.066        | 165               |
| 3              | 3.018        | 0.000         | 0.000         | 0.052       | 0.052        | 13                | 31.60        | 0.000         | 0.000         | 0.015       | 0.015        | 41                | 27.04        | 0.000         | 0.000         | 0.056       | 0.056        | 132               |
| 4              | 2.496        | 0.000         | 0.000         | 0.079       | 0.079        | 17                | 80.82        | 0.000         | 0.000         | 0.045       | 0.045        | 316               | 20.74        | 0.000         | 0.000         | 0.075       | 0.075        | 134               |
| 5              | 3.491        | 0.000         | 0.000         | 0.045       | 0.045        | 14                | 76.05        | 0.000         | 0.000         | 0.081       | 0.081        | 530               | 21.31        | 0.000         | 0.000         | 0.059       | 0.059        | 108               |
| 6              | 17.84        | 0.000         | 0.000         | 0.024       | 0.024        | 37                | 50.18        | 0.000         | 0.000         | 0.023       | 0.023        | 101               | 19.58        | 0.000         | 0.000         | 0.055       | 0.055        | 94                |
| 7              | 24.89        | 0.000         | 0.000         | 0.037       | 0.037        | 78                | 34.78        | 0.000         | 0.000         | 0.056       | 0.056        | 168               | 16.83        | 0.000         | 0.000         | 0.091       | 0.091        | 133               |
| 8              | 19.14        | 0.000         | 0.000         | 0.030       | 0.030        | 50                | 29.29        | 0.000         | 0.000         | 0.017       | 0.017        | 44                | 28.84        | 0.000         | 0.000         | 0.073       | 0.073        | 181               |
| 9              | 12.39        | 0.000         | 0.000         | 0.037       | 0.037        | 40                | 22.19        | 0.000         | 0.000         | 0.016       | 0.016        | 30                | 13.95        | 0.000         | 0.000         | 0.045       | 0.045        | 54                |
| 10             | 6.492        | 0.000         | 0.000         | 0.027       | 0.027        | 15                | 20.37        | 0.000         | 0.000         | 0.028       | 0.028        | 49                | 17.04        | 0.000         | 0.000         | 0.078       | 0.078        | 115               |
| 11             | 7.720        | 0.000         | 0.000         | 0.030       | 0.030        | 20                | 29.45        | 0.000         | 0.000         | 0.072       | 0.072        | 182               | 21.89        | 0.000         | 0.000         | 0.067       | 0.067        | 126               |
| 12             | 11.49        | 0.000         | 0.000         | 0.014       | 0.014        | 14                | 31.40        | 0.000         | 0.000         | 0.028       | 0.028        | 75                | 74.14        | 0.000         | 0.000         | 0.025       | 0.025        | 160               |
| 13             | 18.84        | 0.000         | 0.000         | 0.024       | 0.024        | 39                | 294.1        | 0.000         | 0.000         | 0.178       | 0.178        | 4531              | 44.11        | 0.000         | 0.000         | 0.026       | 0.026        | 97                |
| 14             | 21.82        | 0.000         | 0.000         | 0.021       | 0.021        | 40                | 277.5        | 0.000         | 0.000         | 0.179       | 0.179        | 4291              | 73.89        | 0.000         | 0.000         | 0.040       | 0.040        | 253               |
| 15             | 12.81        | 0.000         | 0.000         | 0.041       | 0.041        | 46                | 313.1        | 0.000         | 0.000         | 0.164       | 0.164        | 4442              | 111.0        | 0.000         | 0.000         | 0.041       | 0.041        | 395               |
| 16             | 11.83        | 0.000         | 0.000         | 0.026       | 0.026        | 27                | 197.7        | 0.000         | 0.000         | 0.026       | 0.026        | 436               | 180.8        | 0.000         | 0.000         | 0.069       | 0.069        | 1075              |
| 17             | 31.28        | 0.000         | 0.000         | 0.022       | 0.022        | 60                | 158.8        | 0.000         | 0.000         | 0.029       | 0.029        | 402               | 347.1        | 0.000         | 0.000         | 0.035       | 0.035        | 1053              |
| 18             | 25.04        | 0.000         | 0.000         | 0.026       | 0.026        | 57                | 94.04        | 0.000         | 0.000         | 0.043       | 0.043        | 351               | 641.3        | 0.000         | 0.000         | 0.038       | 0.038        | 2094              |
| 19             | 22.87        | 0.000         | 0.000         | 0.023       | 0.023        | 46                | 101.2        | 0.000         | 0.000         | 0.062       | 0.062        | 542               | 312.9        | 0.000         | 0.000         | 0.028       | 0.028        | 768               |
| 20             | 22.90        | 0.000         | 0.000         | 0.024       | 0.024        | 47                | 75.01        | 0.000         | 0.000         | 0.031       | 0.031        | 202               | 242.8        | 0.000         | 0.000         | 0.035       | 0.035        | 740               |
| 21             | 21.66        | 0.000         | 0.000         | 0.021       | 0.021        | 39                | 52.47        | 0.000         | 0.000         | 0.054       | 0.054        | 243               | 147.3        | 0.000         | 0.000         | 0.064       | 0.064        | 812               |
| 22             | 19.14        | 0.000         | 0.000         | 0.020       | 0.020        | 33                | 105.8        | 0.000         | 0.000         | 0.025       | 0.025        | 225               | 117.9        | 0.000         | 0.000         | 0.041       | 0.041        | 413               |
| 23             | 12.58        | 0.000         | 0.000         | 0.024       | 0.024        | 26                | 2409         | 0.000         | 0.000         | 0.031       | 0.031        | 6347              | 104.2        | 0.000         | 0.000         | 0.080       | 0.080        | 723               |
| 24             | 11.47        | 0.000         | 0.000         | 0.014       | 0.014        | 14                | 1553         | 0.000         | 0.000         | 0.050       | 0.050        | 6737              | 94.93        | 0.000         | 0.000         | 0.072       | 0.072        | 590               |
| 25             | 6.910        | 0.000         | 0.000         | 0.016       | 0.016        | 9                 | 875.0        | 0.000         | 0.000         | 0.032       | 0.032        | 2389              | 72.63        | 0.000         | 0.000         | 0.059       | 0.059        | 368               |
| 26             | 6.513        | 0.000         | 0.000         | 0.018       | 0.018        | 10                | 472.5        | 0.000         | 0.000         | 0.073       | 0.073        | 2964              | 64.20        | 0.000         | 0.000         | 0.035       | 0.035        | 196               |
| 27             | 12.57        | 0.000         | 0.000         | 0.026       | 0.026        | 28                | 293.4        | 0.000         | 0.000         | 0.056       | 0.056        | 1425              | 84.21        | 0.000         | 0.000         | 0.038       | 0.038        | 279               |
| 28             | 6.629        | 0.000         | 0.000         | 0.024       | 0.024        | 14                | 226.5        | 0.000         | 0.000         | 0.098       | 0.098        | 1916              | 254.8        | 0.000         | 0.000         | 0.025       | 0.025        | 553               |
| 29             | 12.21        | 0.000         | 0.000         | 0.035       | 0.035        | 37                | 129.6        | 0.000         | 0.000         | 0.078       | 0.078        | 868               | 329.7        | 0.000         | 0.000         | 0.034       | 0.034        | 966               |
| 30             | 29.06        | 0.000         | 0.000         | 0.019       | 0.019        | 46                | 92.16        | 0.000         | 0.000         | 0.056       | 0.056        | 449               | 442.8        | 0.000         | 0.000         | 0.021       | 0.021        | 803               |
| 31             |              |               |               |             |              |                   | 76.01        | 0.000         | 0.000         | 0.101       | 0.101        | 663               | 294.3        | 0.000         | 0.000         | 0.018       | 0.018        | 455               |
| Ten Daily Mean |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Ten Daily I    | 9.601        | 0.000         | 0.000         | 0.048       | 0.048        | 30                | 40.50        | 0.000         | 0.000         | 0.035       | 0.035        | 146               | 24.92        | 0.000         | 0.000         | 0.065       | 0.065        | 136               |
| Ten Daily II   | 18.66        | 0.000         | 0.000         | 0.025       | 0.025        | 40                | 157.2        | 0.000         | 0.000         | 0.081       | 0.081        | 1546              | 205.0        | 0.000         | 0.000         | 0.040       | 0.040        | 676               |
| Ten Daily III  | 13.87        | 0.000         | 0.000         | 0.022       | 0.022        | 26                | 571.4        | 0.000         | 0.000         | 0.059       | 0.059        | 2202              | 182.4        | 0.000         | 0.000         | 0.044       | 0.044        | 560               |
| Monthly        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Total          |              |               |               |             |              | 948               |              |               |               |             |              | 41145             |              |               |               |             |              | 14283             |

| Day            | Sep          |               |               |             |              |                   | Oct          |               |               |             |              |                   | Nov          |               |               |             |              |                   |
|----------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1              | 520.6        | 0.000         | 0.000         | 0.027       | 0.027        | 1201              | 293.6        | 0.000         | 0.000         | 0.031       | 0.031        | 792               | 125.3        | 0.000         | 0.000         | 0.117       | 0.117        | 1265              |
| 2              | 549.1        | 0.000         | 0.000         | 0.058       | 0.058        | 2728              | 261.2        | 0.000         | 0.000         | 0.051       | 0.051        | 1153              | 94.34        | 0.000         | 0.000         | 0.082       | 0.082        | 670               |
| 3              | 520.8        | 0.000         | 0.000         | 0.058       | 0.058        | 2587              | 153.5        | 0.000         | 0.000         | 0.042       | 0.042        | 560               | 92.36        | 0.000         | 0.000         | 0.061       | 0.061        | 486               |
| 4              | 755.8        | 0.000         | 0.000         | 0.064       | 0.064        | 4153              | 109.3        | 0.000         | 0.000         | 0.045       | 0.045        | 428               | 72.29        | 0.000         | 0.000         | 0.032       | 0.032        | 202               |
| 5              | 642.0        | 0.000         | 0.000         | 0.070       | 0.070        | 3905              | 87.26        | 0.000         | 0.000         | 0.053       | 0.053        | 397               | 79.58        | 0.000         | 0.000         | 0.048       | 0.048        | 331               |
| 6              | 495.0        | 0.000         | 0.000         | 0.060       | 0.060        | 2545              | 77.25        | 0.000         | 0.000         | 0.062       | 0.062        | 416               | 72.54        | 0.000         | 0.000         | 0.023       | 0.023        | 147               |
| 7              | 780.0        | 0.000         | 0.000         | 0.059       | 0.059        | 3970              | 110.5        | 0.000         | 0.000         | 0.029       | 0.029        | 273               | 60.23        | 0.000         | 0.000         | 0.030       | 0.030        | 157               |
| 8              | 2231         | 0.000         | 0.000         | 0.085       | 0.085        | 16464             | 119.2        | 0.000         | 0.000         | 0.022       | 0.022        | 229               | 77.23        | 0.000         | 0.000         | 0.024       | 0.024        | 157               |
| 9              | 1059         | 0.000         | 0.000         | 0.051       | 0.051        | 4649              | 92.06        | 0.000         | 0.000         | 0.035       | 0.035        | 280               | 68.06        | 0.000         | 0.000         | 0.024       | 0.024        | 141               |
| 10             | 520.2        | 0.000         | 0.000         | 0.065       | 0.065        | 2935              | 90.11        | 0.000         | 0.000         | 0.035       | 0.035        | 272               | 64.58        | 0.000         | 0.000         | 0.023       | 0.023        | 127               |
| 11             | 321.2        | 0.000         | 0.000         | 0.055       | 0.055        | 1526              | 100.3        | 0.000         | 0.000         | 0.047       | 0.047        | 410               | 59.01        | 0.000         | 0.000         | 0.015       | 0.015        | 77                |
| 12             | 192.0        | 0.000         | 0.000         | 0.046       | 0.046        | 758               | 90.50        | 0.000         | 0.000         | 0.058       | 0.058        | 455               | 60.86        | 0.000         | 0.000         | 0.020       | 0.020        | 104               |
| 13             | 151.9        | 0.000         | 0.000         | 0.031       | 0.031        | 402               | 85.46        | 0.000         | 0.000         | 0.068       | 0.068        | 504               | 52.47        | 0.000         | 0.000         | 0.029       | 0.029        | 131               |
| 14             | 130.0        | 0.000         | 0.000         | 0.016       | 0.016        | 182               | 67.89        | 0.000         | 0.000         | 0.020       | 0.020        | 120               | 125.0        | 0.000         | 0.000         | 0.039       | 0.039        | 423               |
| 15             | 116.6        | 0.000         | 0.000         | 0.025       | 0.025        | 251               | 90.11        | 0.000         | 0.000         | 0.035       | 0.035        | 272               | 130.0        | 0.000         | 0.000         | 0.097       | 0.097        | 1090              |
| 16             | 132.7        | 0.000         | 0.000         | 0.053       | 0.053        | 611               | 71.87        | 0.000         | 0.000         | 0.022       | 0.022        | 137               | 80.87        | 0.000         | 0.000         | 0.061       | 0.061        | 423               |
| 17             | 107.5        | 0.000         | 0.000         | 0.033       | 0.033        | 304               | 94.04        | 0.000         | 0.000         | 0.036       | 0.036        | 288               | 79.96        | 0.000         | 0.000         | 0.063       | 0.063        | 435               |
| 18             | 72.30        | 0.000         | 0.000         | 0.065       | 0.065        | 405               | 230.2        | 0.000         | 0.000         | 0.065       | 0.065        | 1283              | 72.22        | 0.000         | 0.000         | 0.018       | 0.018        | 110               |
| 19             | 47.91        | 0.000         | 0.000         | 0.010       | 0.010        | 41                | 148.0        | 0.000         | 0.000         | 0.042       | 0.042        | 533               | 60.23        | 0.000         | 0.000         | 0.030       | 0.030        | 157               |
| 20             | 83.15        | 0.000         | 0.000         | 0.046       | 0.046        | 328               | 100.7        | 0.000         | 0.000         | 0.055       | 0.055        | 480               | 68.00        | 0.000         | 0.000         | 0.019       | 0.019        | 112               |
| 21             | 268.9        | 0.000         | 0.000         | 0.046       | 0.046        | 1062              | 79.24        | 0.000         | 0.000         | 0.031       | 0.031        | 210               | 57.52        | 0.000         | 0.000         | 0.030       | 0.030        | 148               |
| 22             | 539.4        | 0.000         | 0.000         | 0.097       | 0.097        | 4511              | 67.74        | 0.000         | 0.000         | 0.074       | 0.074        | 432               | 72.72        | 0.000         | 0.000         | 0.048       | 0.048        | 304               |
| 23             | 317.5        | 0.000         | 0.000         | 0.070       | 0.070        | 1907              | 60.32        | 0.000         | 0.000         | 0.087       | 0.087        | 452               | 64.45        | 0.000         | 0.000         | 0.016       | 0.016        | 86                |
| 24             | 268.0        | 0.000         | 0.000         | 0.067       | 0.067        | 1554              | 47.91        | 0.000         | 0.000         | 0.010       | 0.010        | 41                | 59.70        | 0.000         | 0.000         | 0.010       | 0.010        | 53                |
| 25             | 238.7        | 0.000         | 0.000         | 0.080       | 0.080        | 1640              | 52.01        | 0.000         | 0.000         | 0.056       | 0.056        | 249               | 55.21        | 0.000         | 0.000         | 0.010       | 0.010        | 47                |
| 26             | 211.5        | 0.000         | 0.000         | 0.047       | 0.047        | 866               | 52.52        | 0.000         | 0.000         | 0.055       | 0.055        | 248               | 52.76        | 0.000         | 0.000         | 0.013       | 0.013        | 61                |
| 27             | 148.0        | 0.000         | 0.000         | 0.025       | 0.025        | 322               | 50.64        | 0.000         | 0.000         | 0.042       | 0.042        | 182               | 47.33        | 0.000         | 0.000         | 0.009       | 0.009        | 35                |
| 28             | 2916         | 0.000         | 0.000         | 0.108       | 0.108        | 27237             | 47.18        | 0.000         | 0.000         | 0.056       | 0.056        | 227               | 35.15        | 0.000         | 0.000         | 0.010       | 0.010        | 30                |
| 29             | 1418         | 0.000         | 0.000         | 0.075       | 0.075        | 9240              | 48.94        | 0.000         | 0.000         | 0.059       | 0.059        | 248               | 44.37        | 0.000         | 0.000         | 0.013       | 0.013        | 51                |
| 30             | 592.0        | 0.000         | 0.000         | 0.059       | 0.059        | 2992              | 53.12        | 0.000         | 0.000         | 0.036       | 0.036        | 164               | 44.78        | 0.000         | 0.000         | 0.005       | 0.005        | 21                |
| 31             |              |               |               |             |              |                   | 75.61        | 0.000         | 0.000         | 0.033       | 0.033        | 214               |              |               |               |             |              |                   |
| Ten Daily Mean |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Ten Daily I    | 807.4        | 0.000         | 0.000         | 0.060       | 0.060        | 4514              | 139.4        | 0.000         | 0.000         | 0.041       | 0.041        | 480               | 80.65        | 0.000         | 0.000         | 0.046       | 0.046        | 368               |
| Ten Daily II   | 135.5        | 0.000         | 0.000         | 0.038       | 0.038        | 481               | 107.9        | 0.000         | 0.000         | 0.045       | 0.045        | 448               | 78.86        | 0.000         | 0.000         | 0.039       | 0.039        | 306               |
| Ten Daily III  | 691.9        | 0.000         | 0.000         | 0.067       | 0.067        | 5133              | 57.75        | 0.000         | 0.000         | 0.049       | 0.049        | 243               | 53.40        | 0.000         | 0.000         | 0.016       | 0.016        | 84                |
| Monthly        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Total          |              |               |               |             |              | 101275            |              |               |               |             |              | 11950             |              |               |               |             |              | 7582              |

| Day            | Dec          |               |               |             |              |                   | Jan          |               |               |             |              |                   | Feb          |               |               |             |              |                   |
|----------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1              | 43.69        | 0.000         | 0.000         | 0.017       | 0.017        | 63                | 34.45        | 0.000         | 0.000         | 0.011       | 0.011        | 34                | 13.26        | 0.000         | 0.000         | 0.021       | 0.021        | 24                |
| 2              | 42.03        | 0.000         | 0.000         | 0.016       | 0.016        | 56                | 39.36        | 0.000         | 0.000         | 0.014       | 0.014        | 47                | 12.69        | 0.000         | 0.000         | 0.022       | 0.022        | 25                |
| 3              | 39.89        | 0.000         | 0.000         | 0.014       | 0.014        | 49                | 42.97        | 0.000         | 0.000         | 0.022       | 0.022        | 80                | 12.14        | 0.000         | 0.000         | 0.024       | 0.024        | 25                |
| 4              | 44.35        | 0.000         | 0.000         | 0.017       | 0.017        | 65                | 43.21        | 0.000         | 0.000         | 0.016       | 0.016        | 61                | 11.03        | 0.000         | 0.000         | 0.029       | 0.029        | 27                |
| 5              | 44.32        | 0.000         | 0.000         | 0.017       | 0.017        | 65                | 42.85        | 0.000         | 0.000         | 0.016       | 0.016        | 59                | 11.28        | 0.000         | 0.000         | 0.028       | 0.028        | 27                |
| 6              | 42.53        | 0.000         | 0.000         | 0.016       | 0.016        | 60                | 41.30        | 0.000         | 0.000         | 0.015       | 0.015        | 54                | 11.22        | 0.000         | 0.000         | 0.028       | 0.028        | 27                |
| 7              | 42.49        | 0.000         | 0.000         | 0.016       | 0.016        | 58                | 36.01        | 0.000         | 0.000         | 0.012       | 0.012        | 38                | 9.720        | 0.000         | 0.000         | 0.024       | 0.024        | 20                |
| 8              | 40.16        | 0.000         | 0.000         | 0.014       | 0.014        | 50                | 35.36        | 0.000         | 0.000         | 0.012       | 0.012        | 36                | 10.00        | 0.000         | 0.000         | 0.034       | 0.034        | 29                |
| 9              | 37.35        | 0.000         | 0.000         | 0.013       | 0.013        | 41                | 35.36        | 0.000         | 0.000         | 0.012       | 0.012        | 36                | 8.702        | 0.000         | 0.000         | 0.042       | 0.042        | 32                |
| 10             | 27.49        | 0.000         | 0.000         | 0.009       | 0.009        | 22                | 34.02        | 0.000         | 0.000         | 0.006       | 0.006        | 18                | 8.200        | 0.000         | 0.000         | 0.047       | 0.047        | 33                |
| 11             | 25.36        | 0.000         | 0.000         | 0.009       | 0.009        | 20                | 25.68        | 0.000         | 0.000         | 0.009       | 0.009        | 20                | 7.953        | 0.000         | 0.000         | 0.049       | 0.049        | 34                |
| 12             | 21.25        | 0.000         | 0.000         | 0.010       | 0.010        | 18                | 24.35        | 0.000         | 0.000         | 0.009       | 0.009        | 19                | 9.550        | 0.000         | 0.000         | 0.037       | 0.037        | 30                |
| 13             | 24.76        | 0.000         | 0.000         | 0.010       | 0.010        | 21                | 14.76        | 0.000         | 0.000         | 0.017       | 0.017        | 22                | 11.22        | 0.000         | 0.000         | 0.028       | 0.028        | 27                |
| 14             | 22.78        | 0.000         | 0.000         | 0.010       | 0.010        | 19                | 44.32        | 0.000         | 0.000         | 0.017       | 0.017        | 65                | 10.03        | 0.000         | 0.000         | 0.035       | 0.035        | 30                |
| 15             | 21.02        | 0.000         | 0.000         | 0.010       | 0.010        | 18                | 89.92        | 0.000         | 0.000         | 0.055       | 0.055        | 430               | 10.89        | 0.000         | 0.000         | 0.029       | 0.029        | 28                |
| 16             | 19.22        | 0.000         | 0.000         | 0.011       | 0.011        | 19                | 94.05        | 0.000         | 0.000         | 0.059       | 0.059        | 480               | 4.787        | 0.000         | 0.000         | 0.101       | 0.101        | 42                |
| 17             | 16.19        | 0.000         | 0.000         | 0.015       | 0.015        | 21                | 58.81        | 0.000         | 0.000         | 0.028       | 0.028        | 141               | 3.395        | 0.000         | 0.000         | 0.156       | 0.156        | 46                |
| 18             | 14.92        | 0.000         | 0.000         | 0.017       | 0.017        | 22                | 58.73        | 0.000         | 0.000         | 0.028       | 0.028        | 141               | 4.852        | 0.000         | 0.000         | 0.099       | 0.099        | 42                |
| 19             | 12.69        | 0.000         | 0.000         | 0.023       | 0.023        | 25                | 54.42        | 0.000         | 0.000         | 0.024       | 0.024        | 115               | 4.931        | 0.000         | 0.000         | 0.097       | 0.097        | 41                |
| 20             | 13.50        | 0.000         | 0.000         | 0.026       | 0.026        | 31                | 51.35        | 0.000         | 0.000         | 0.022       | 0.022        | 98                | 4.920        | 0.000         | 0.000         | 0.097       | 0.097        | 41                |
| 21             | 13.40        | 0.000         | 0.000         | 0.020       | 0.020        | 24                | 45.06        | 0.000         | 0.000         | 0.018       | 0.018        | 68                | 4.747        | 0.000         | 0.000         | 0.081       | 0.081        | 33                |
| 22             | 12.97        | 0.000         | 0.000         | 0.022       | 0.022        | 24                | 42.80        | 0.000         | 0.000         | 0.016       | 0.016        | 59                | 4.799        | 0.000         | 0.000         | 0.101       | 0.101        | 42                |
| 23             | 16.83        | 0.000         | 0.000         | 0.014       | 0.014        | 20                | 46.25        | 0.000         | 0.000         | 0.018       | 0.018        | 73                | 10.24        | 0.000         | 0.000         | 0.033       | 0.033        | 29                |
| 24             | 15.63        | 0.000         | 0.000         | 0.016       | 0.016        | 21                | 39.27        | 0.000         | 0.000         | 0.009       | 0.009        | 29                | 4.637        | 0.000         | 0.000         | 0.105       | 0.105        | 42                |
| 25             | 15.61        | 0.000         | 0.000         | 0.016       | 0.016        | 21                | 25.94        | 0.000         | 0.000         | 0.009       | 0.009        | 20                | 4.591        | 0.000         | 0.000         | 0.107       | 0.107        | 42                |
| 26             | 15.61        | 0.000         | 0.000         | 0.016       | 0.016        | 21                | 25.45        | 0.000         | 0.000         | 0.009       | 0.009        | 20                | 4.559        | 0.000         | 0.000         | 0.108       | 0.108        | 42                |
| 27             | 19.03        | 0.000         | 0.000         | 0.011       | 0.011        | 18                | 24.31        | 0.000         | 0.000         | 0.009       | 0.009        | 19                | 4.610        | 0.000         | 0.000         | 0.106       | 0.106        | 42                |
| 28             | 27.41        | 0.000         | 0.000         | 0.009       | 0.009        | 22                | 23.32        | 0.000         | 0.000         | 0.009       | 0.009        | 19                | 3.061        | 0.000         | 0.000         | 0.058       | 0.058        | 15                |
| 29             | 27.12        | 0.000         | 0.000         | 0.009       | 0.009        | 22                | 23.49        | 0.000         | 0.000         | 0.009       | 0.009        | 19                |              |               |               |             |              |                   |
| 30             | 18.37        | 0.000         | 0.000         | 0.012       | 0.012        | 19                | 16.45        | 0.000         | 0.000         | 0.014       | 0.014        | 20                |              |               |               |             |              |                   |
| 31             | 26.21        | 0.000         | 0.000         | 0.009       | 0.009        | 21                | 14.83        | 0.000         | 0.000         | 0.024       | 0.024        | 31                |              |               |               |             |              |                   |
| Ten Daily Mean |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Ten Daily I    | 40.43        | 0.000         | 0.000         | 0.015       | 0.015        | 53                | 38.49        | 0.000         | 0.000         | 0.014       | 0.014        | 46                | 10.83        | 0.000         | 0.000         | 0.030       | 0.030        | 27                |
| Ten Daily II   | 19.17        | 0.000         | 0.000         | 0.014       | 0.014        | 21                | 51.64        | 0.000         | 0.000         | 0.027       | 0.027        | 153               | 7.253        | 0.000         | 0.000         | 0.073       | 0.073        | 36                |
| Ten Daily III  | 18.93        | 0.000         | 0.000         | 0.014       | 0.014        | 21                | 29.74        | 0.000         | 0.000         | 0.013       | 0.013        | 34                | 5.155        | 0.000         | 0.000         | 0.087       | 0.087        | 36                |
| Monthly        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Total          |              |               |               |             |              | 974               |              |               |               |             |              | 2371              |              |               |               |             |              | 918               |

| Day            | Mar          |               |               |             |              |                   | Apr          |               |               |             |              |                   | May          |               |               |             |              |                   |
|----------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1              | 2.981        | 0.000         | 0.000         | 0.183       | 0.183        | 47                | 1.077        | 0.000         | 0.000         | 0.575       | 0.575        | 54                | 4.250        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 2              | 1.920        | 0.000         | 0.000         | 0.305       | 0.305        | 51                | 1.122        | 0.000         | 0.000         | 0.550       | 0.550        | 53                | 2.847        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 3              | 2.016        | 0.000         | 0.000         | 0.289       | 0.289        | 50                | 1.130        | 0.000         | 0.000         | 0.546       | 0.546        | 53                | 1.750        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 4              | 1.945        | 0.000         | 0.000         | 0.301       | 0.301        | 51                | 12.43        | 0.000         | 0.000         | 0.037       | 0.037        | 40                | 1.555        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 5              | 1.895        | 0.000         | 0.000         | 0.310       | 0.310        | 51                | 4.741        | 0.000         | 0.000         | 0.102       | 0.102        | 42                | 1.396        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 6              | 1.920        | 0.000         | 0.000         | 0.305       | 0.305        | 51                | 4.574        | 0.000         | 0.000         | 0.107       | 0.107        | 42                | 1.366        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 7              | 1.841        | 0.000         | 0.000         | 0.320       | 0.320        | 51                | 5.055        | 0.000         | 0.000         | 0.094       | 0.094        | 41                | 1.666        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 8              | 1.310        | 0.000         | 0.000         | 0.466       | 0.466        | 53                | 4.789        | 0.000         | 0.000         | 0.101       | 0.101        | 42                | 1.680        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 9              | 4.617        | 0.000         | 0.000         | 0.106       | 0.106        | 42                | 4.820        | 0.000         | 0.000         | 0.100       | 0.100        | 42                | 1.409        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 10             | 4.768        | 0.000         | 0.000         | 0.101       | 0.101        | 42                | 3.250        | 0.000         | 0.000         | 0.165       | 0.165        | 46                | 1.393        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 11             | 9.843        | 0.000         | 0.000         | 0.035       | 0.035        | 30                | 3.103        | 0.000         | 0.000         | 0.175       | 0.175        | 47                | 1.390        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 12             | 10.21        | 0.000         | 0.000         | 0.033       | 0.033        | 29                | 5.094        | 0.000         | 0.000         | 0.093       | 0.093        | 41                | 1.217        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 13             | 3.960        | 0.000         | 0.000         | 0.129       | 0.129        | 44                | 10.50        | 0.000         | 0.000         | 0.031       | 0.031        | 28                | 1.167        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 14             | 1.903        | 0.000         | 0.000         | 0.308       | 0.308        | 51                | 10.52        | 0.000         | 0.000         | 0.031       | 0.031        | 28                | 1.420        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 15             | 1.148        | 0.000         | 0.000         | 0.537       | 0.537        | 53                | 5.250        | 0.000         | 0.000         | 0.089       | 0.089        | 40                | 1.670        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 16             | 1.018        | 0.000         | 0.000         | 0.611       | 0.611        | 54                | 12.33        | 0.000         | 0.000         | 0.024       | 0.024        | 25                | 4.250        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 17             | 1.130        | 0.000         | 0.000         | 0.546       | 0.546        | 53                | 15.25        | 0.000         | 0.000         | 0.016       | 0.016        | 21                | 1.903        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 18             | 1.210        | 0.000         | 0.000         | 0.507       | 0.507        | 53                | 13.36        | 0.000         | 0.000         | 0.044       | 0.044        | 50                | 1.342        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 19             | 1.153        | 0.000         | 0.000         | 0.535       | 0.535        | 53                | 17.16        | 0.000         | 0.000         | 0.013       | 0.013        | 20                | 1.344        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 20             | 1.250        | 0.000         | 0.000         | 0.490       | 0.490        | 53                | 20.27        | 0.000         | 0.000         | 0.011       | 0.011        | 18                | 1.310        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 21             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 21.26        | 0.000         | 0.000         | 0.010       | 0.010        | 18                | 1.313        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 22             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 22.89        | 0.000         | 0.000         | 0.009       | 0.009        | 19                | 1.320        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 23             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 16.57        | 0.000         | 0.000         | 0.014       | 0.014        | 20                | 1.316        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 24             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 15.25        | 0.000         | 0.000         | 0.016       | 0.016        | 21                | 1.270        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 25             | 2.927        | 0.000         | 0.000         | 0.187       | 0.187        | 47                | 12.72        | 0.000         | 0.000         | 0.020       | 0.020        | 22                | 1.228        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 26             | 4.745        | 0.000         | 0.000         | 0.102       | 0.102        | 42                | 4.794        | 0.000         | 0.000         | 0.101       | 0.101        | 42                | 1.263        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 27             | 8.250        | 0.000         | 0.000         | 0.046       | 0.046        | 33                | 3.146        | 0.000         | 0.000         | 0.172       | 0.172        | 47                | 1.178        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 28             | 4.602        | 0.000         | 0.000         | 0.019       | 0.019        | 7                 | 4.979        | 0.000         | 0.000         | 0.096       | 0.096        | 41                | 1.211        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 29             | 2.952        | 0.000         | 0.000         | 0.185       | 0.185        | 47                | 12.18        | 0.000         | 0.000         | 0.024       | 0.024        | 25                | 1.220        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 30             | 1.861        | 0.000         | 0.000         | 0.316       | 0.316        | 51                | 5.094        | 0.000         | 0.000         | 0.093       | 0.093        | 41                | 1.111        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 31             | 1.083        | 0.000         | 0.000         | 0.572       | 0.572        | 53                |              |               |               |             |              |                   | 1.130        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Ten Daily Mean |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Ten Daily I    | 2.521        | 0.000         | 0.000         | 0.269       | 0.269        | 49                | 4.299        | 0.000         | 0.000         | 0.238       | 0.238        | 45                | 1.931        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Ten Daily II   | 3.282        | 0.000         | 0.000         | 0.373       | 0.373        | 47                | 11.28        | 0.000         | 0.000         | 0.053       | 0.053        | 32                | 1.701        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Ten Daily III  | 2.402        | 0.000         | 0.000         | 0.130       | 0.130        | 26                | 11.89        | 0.000         | 0.000         | 0.055       | 0.055        | 30                | 1.233        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Monthly        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Total          |              |               |               |             |              | 1242              |              |               |               |             |              | 1071              |              |               |               |             |              | 0                 |

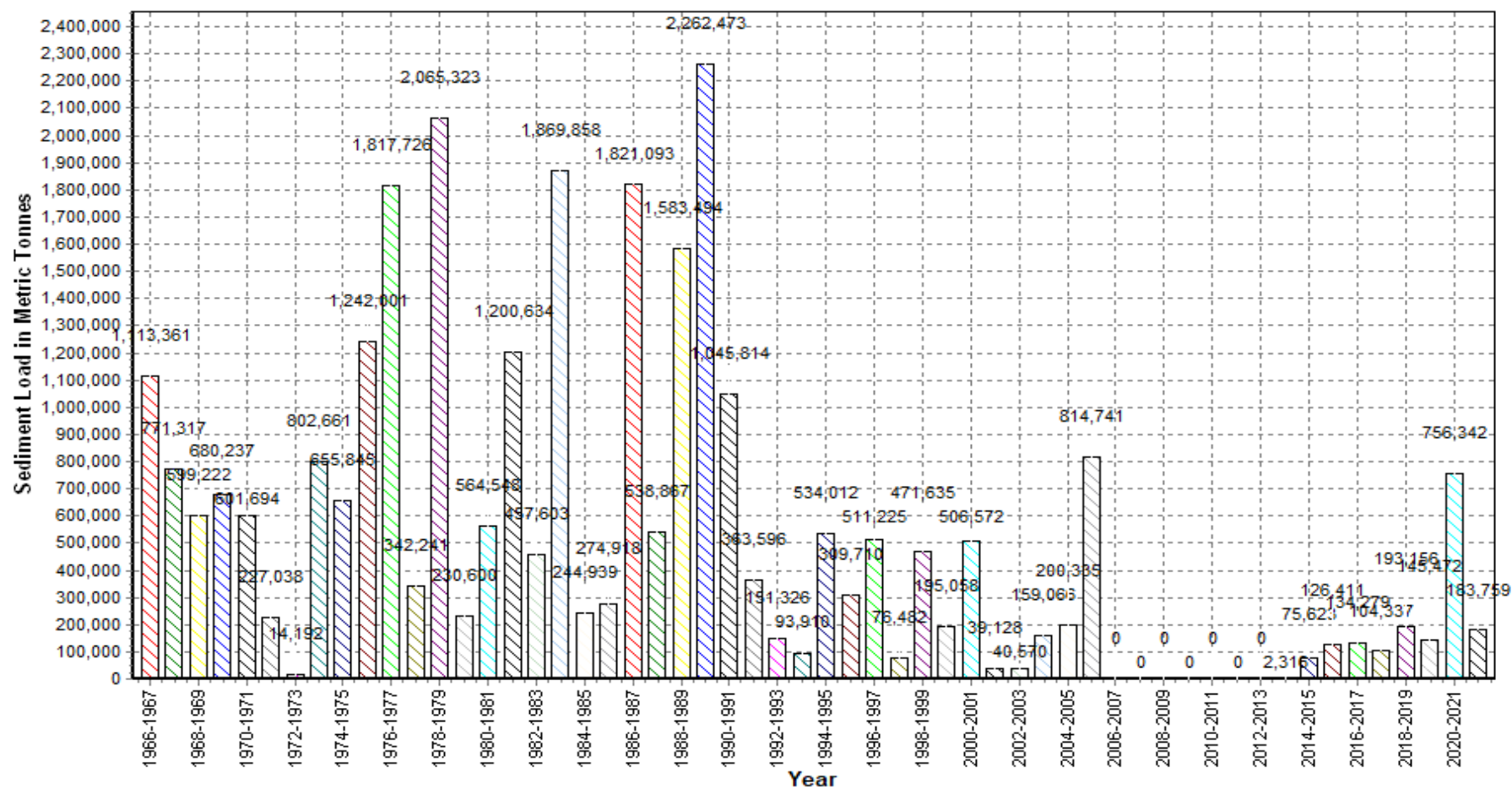
Station Name: Keesara (AKAOB4)  
Local River: Munneru

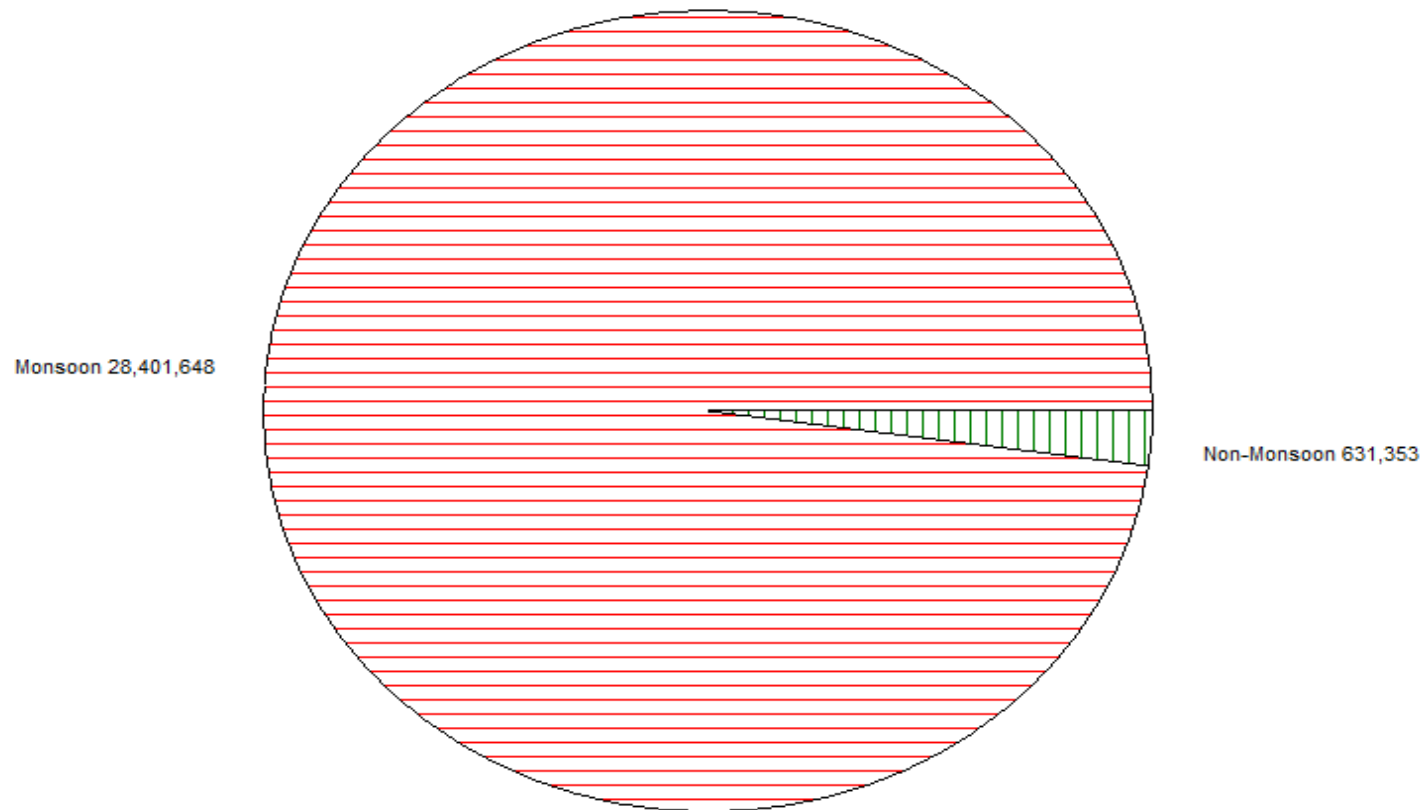
Annual Sediment Load for period: 1966 -2022

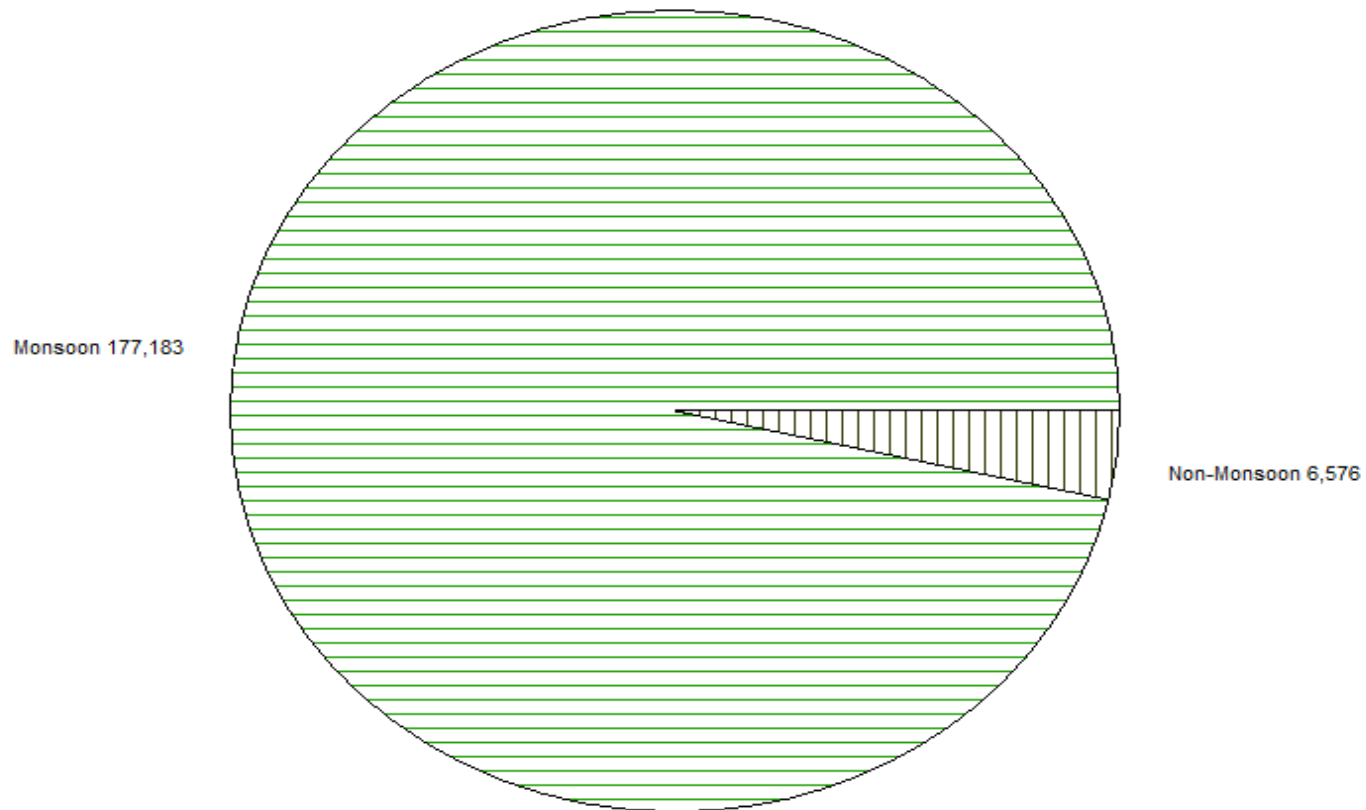
Division: Lower Krishna Divn., Hyderabad  
Sub-Division: Lower Krishna SD2, Vijayawada

| Year      | Monsoon<br>(M.T.) | Non-Monsoon<br>(M.T.) | Annual Load<br>(M.T.) | Annual Run Off<br>(MCM) |
|-----------|-------------------|-----------------------|-----------------------|-------------------------|
| 1966-1967 | 1109236           | 4125                  | 1113361               | 1676                    |
| 1967-1968 | 771177            | 140                   | 771317                | 1129                    |
| 1968-1969 | 583025            | 16197                 | 599222                | 1535                    |
| 1969-1970 | 677699            | 2538                  | 680237                | 2335                    |
| 1970-1971 | 601694            | 0                     | 601694                | 2755                    |
| 1971-1972 | 227038            | 0                     | 227038                | 397                     |
| 1972-1973 | 13911             | 281                   | 14192                 | 180                     |
| 1973-1974 | 802661            | 0                     | 802661                | 831                     |
| 1974-1975 | 655613            | 232                   | 655845                | 735                     |
| 1975-1976 | 1241772           | 229                   | 1242001               | 2722                    |
| 1976-1977 | 1810081           | 7645                  | 1817726               | 2624                    |
| 1977-1978 | 341494            | 747                   | 342241                | 428                     |
| 1978-1979 | 2064226           | 1097                  | 2065323               | 4184                    |
| 1979-1980 | 229766            | 834                   | 230600                | 366                     |
| 1980-1981 | 564115            | 433                   | 564548                | 1390                    |
| 1981-1982 | 1200286           | 348                   | 1200634               | 1987                    |
| 1982-1983 | 452672            | 4931                  | 457603                | 1429                    |
| 1983-1984 | 1865787           | 4071                  | 1869858               | 4623                    |
| 1984-1985 | 237802            | 7137                  | 244939                | 805                     |
| 1985-1986 | 267383            | 7535                  | 274918                | 1290                    |
| 1986-1987 | 1814598           | 6495                  | 1821093               | 1748                    |
| 1987-1988 | 528163            | 10705                 | 538867                | 1213                    |
| 1988-1989 | 1576468           | 7026                  | 1583494               | 4440                    |
| 1989-1990 | 1878031           | 384442                | 2262473               | 4772                    |
| 1990-1991 | 1030461           | 15353                 | 1045814               | 3583                    |
| 1991-1992 | 348520            | 15076                 | 363596                | 2046                    |
| 1992-1993 | 144378            | 6948                  | 151326                | 937                     |
| 1993-1994 | 89957             | 3953                  | 93910                 | 975                     |
| 1994-1995 | 521656            | 12356                 | 534012                | 2470                    |
| 1995-1996 | 305114            | 4596                  | 309710                | 1981                    |
| 1996-1997 | 503876            | 7349                  | 511225                | 3033                    |
| 1997-1998 | 69997             | 6484                  | 76482                 | 988                     |
| 1998-1999 | 463105            | 8530                  | 471635                | 3011                    |
| 1999-2000 | 192231            | 2827                  | 195058                | 1597                    |
| 2000-2001 | 500215            | 6357                  | 506572                | 2945                    |
| 2001-2002 | 37240             | 1889                  | 39128                 | 536                     |
| 2002-2003 | 40570             | 0                     | 40570                 | 225                     |
| 2003-2004 | 158310            | 756                   | 159066                | 801                     |
| 2004-2005 | 199505            | 830                   | 200335                | 709                     |
| 2005-2006 | 801801            | 12940                 | 814741                | 3214                    |
| 2006-2007 | 0                 | 0                     | 0                     | 2272                    |
| 2007-2008 | 0                 | 0                     | 0                     | 1733                    |
| 2008-2009 | 0                 | 0                     | 0                     | 4212                    |
| 2009-2010 | 0                 | 0                     | 0                     | 442                     |
| 2010-2011 | 0                 | 0                     | 0                     | 4218                    |
| 2011-2012 | 0                 | 0                     | 0                     | 1065                    |
| 2012-2013 | 0                 | 0                     | 0                     | 2429                    |
| 2013-2014 | 0                 | 2316                  | 2316                  | 2293                    |
| 2014-2015 | 65663             | 9960                  | 75623                 | 602                     |
| 2015-2016 | 126360            | 52                    | 126411                | 909                     |
| 2016-2017 | 131871            | 2407                  | 134279                | 1009                    |
| 2017-2018 | 101004            | 3333                  | 104337                | 783                     |
| 2018-2019 | 177853            | 15303                 | 193156                | 1614                    |
| 2019-2020 | 138193            | 7280                  | 145472                | 1243                    |
| 2020-2021 | 739072            | 17270                 | 756342                | 6109                    |
| 2021-2022 | 177183            | 6576                  | 183759                | 3217                    |









**BED MATERIAL ANALYSIS DATA FOR THE YEAR 2021-22**

SITE : MUNNERU AT KEESRA CODE : AKA00B4  
MEASURING : LKDN CROSS SECTION : Station gauge line  
AUTHORITY

**Premonsoon Survey ( Date 17-05-2021 )**

Discharge Observed : 6.728 cumec Water edge RB 118.00 m LB : 282.00 m  
Area of section : 91.06 sq.m MeanVelocit : 0.0739 m/sec  
Wetted perimeter : 164.11 Hydraulic Mean Depth : 0.5549 m

| Sl. No | R.D.of sampling point in meters | R.L. of bed in meters | Mean diameter in mm | Remarks               |
|--------|---------------------------------|-----------------------|---------------------|-----------------------|
| 1      | 90                              | 29.480                | 0.59                |                       |
| 2      | 180                             | 27.190                | 0.44                | Av.mean               |
| 3      | 270                             | 28.340                | 0.80                | dia "m" = <b>0.62</b> |
| 4      | 360                             | 29.770                | 0.63                | Silt factor           |
| 5      | 450                             | 30.610                | 0.64                | "f" =1.76 $\sqrt{m}$  |
| 6      | 540                             | 32.130                | 0.64                | = <b>1.39</b>         |

**Note :** i. Discharge observation was at station gauge line.  
ii. River bed : Flowing water.

**Monsoon Survey ( Date 20-09-2021 )**

Discharge Observed : 83.15 cumec Water edge RB 300.00 m LB : 90.00 m  
Area of section : 186.30 sq.m MeanVelocit : 0.4463 m/sec  
Wetted perimeter : 210.25 Hydraulic Mean Depth : 0.8861 m

| Sl. No | R.D.of sampling point in meters | R.L. of bed in meters | Mean diameter in mm | Remarks               |
|--------|---------------------------------|-----------------------|---------------------|-----------------------|
| 1      | 90                              | 29.280                | 0.46                |                       |
| 2      | 180                             | 27.160                | 0.73                | Av.mean               |
| 3      | 270                             | 28.830                | 0.85                | dia "m" = <b>0.79</b> |
| 4      | 360                             | 29.190                | 1.01                | Silt factor           |
| 5      | 450                             | 30.160                | 0.94                | "f" =1.76 $\sqrt{m}$  |
| 6      | 540                             | 31.570                | 0.76                | = <b>1.56</b>         |

**Note :** i. Discharge observation was at station gauge line.  
ii. River bed : Flowing water.

## HISTORY SHEET

|                          |                                  |                   |                                 |
|--------------------------|----------------------------------|-------------------|---------------------------------|
|                          |                                  | <b>Water Year</b> | <b>: 2021-2022</b>              |
| <b>Site</b>              | <b>: Vijayawada</b>              | <b>Code</b>       | <b>: AK000B9</b>                |
| State                    | : Andhra Pradesh                 | District          | Krishna                         |
| Basin                    | : Krishna                        | Independent River | : Krishna                       |
| Tributary                | : -                              | Sub Tributary     | : -                             |
| Sub-Sub Tributary        | : -                              | Local River       | : Krishna                       |
| Division                 | : Lower Krishna Divn., Hyderabad | Sub-Division      | : Lower Krishna SD2, Vijayawada |
| Drainage Area            | : 251360 Sq. Km.                 | Bank              | : Left                          |
| Latitude                 | : 16°30'04"                      | Longitude         | : 80°37'30"                     |
| <b>Zero of Gauge (m)</b> | : 8.69 (m.s.l)                   | 01-01-1964        | - 31-08-1964                    |
|                          | : 8.152 (m.s.l)                  | 01-09-1964        |                                 |
|                          | : 8.152 (m.s.l)                  | 01-01-2000        | - 31-12-2220                    |
|                          | Opening Date                     | Closing Date      |                                 |
| Gauge                    | : 21-03-1964                     |                   |                                 |
| Discharge                | : 24-03-1964                     |                   |                                 |
| Sediment                 | : 01-02-1965                     |                   |                                 |
| Water Quality            | : 01-01-1972                     |                   |                                 |

Station Name: Vijayawada(AK000B9)  
Local River:Krishna

Daily Observed Datasheet for the Period:2021-2022

Division:Lower Krishna Divn.,Hyderabad  
Sub-Division:Lower Krishna SD2,Vijayawada

| Day            | Jun          |               |               |             |              |                   | Jul          |               |               |             |              |                   | Aug          |               |               |             |              |                   |
|----------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 757.1        | 0.000         | 0.000         | 0.021       | 0.021        | 1348              |
| 2              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 1309         | 0.000         | 0.000         | 0.014       | 0.014        | 1527              |
| 3              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 80.59        | 0.000         | 0.000         | 0.004       | 0.004        | 28                | 7098         | 0.000         | 0.000         | 0.256       | 0.256        | 157110            |
| 4              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 99.87        | 0.000         | 0.000         | 0.007       | 0.007        | 57                | 1703         | 0.000         | 0.000         | 0.024       | 0.024        | 3458              |
| 5              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 82.04        | 0.000         | 0.000         | 0.010       | 0.010        | 71                | 914.4        | 0.000         | 0.000         | 0.021       | 0.021        | 1635              |
| 6              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 78.57        | 0.000         | 0.000         | 0.003       | 0.003        | 22                | 9663         | 0.000         | 0.000         | 0.275       | 0.275        | 229603            |
| 7              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 68.27        | 0.000         | 0.000         | 0.007       | 0.007        | 41                | 5673         | 0.000         | 0.000         | 0.323       | 0.323        | 158371            |
| 8              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 63.22        | 0.000         | 0.000         | 0.004       | 0.004        | 24                | 633.5        | 0.000         | 0.000         | 0.019       | 0.019        | 1018              |
| 9              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 119.2        | 0.000         | 0.000         | 0.009       | 0.009        | 92                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 10             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 222.4        | 0.000         | 0.000         | 0.005       | 0.005        | 86                | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 11             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 225.2        | 0.000         | 0.000         | 0.011       | 0.011        | 204               | 431.0        | 0.000         | 0.000         | 0.033       | 0.033        | 1236              |
| 12             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 125.3        | 0.000         | 0.000         | 0.030       | 0.030        | 329               |
| 13             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 76.18        | 0.000         | 0.000         | 0.012       | 0.012        | 80                |
| 14             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 1188         | 0.000         | 0.000         | 0.011       | 0.011        | 1119              |
| 15             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 42.57        | 0.000         | 0.000         | 0.001       | 0.001        | 3                 | 962.6        | 0.000         | 0.000         | 0.024       | 0.024        | 1954              |
| 16             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 155.3        | 0.000         | 0.000         | 0.001       | 0.001        | 15                | 1363         | 0.000         | 0.000         | 0.012       | 0.012        | 1448              |
| 17             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 49.24        | 0.000         | 0.000         | 0.021       | 0.021        | 88                | 1790         | 0.000         | 0.000         | 0.020       | 0.020        | 3032              |
| 18             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 57.80        | 0.000         | 0.000         | 0.005       | 0.005        | 24                | 2342         | 0.000         | 0.000         | 0.035       | 0.035        | 7124              |
| 19             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 1148         | 0.000         | 0.000         | 0.050       | 0.050        | 4951              |
| 20             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 288.8        | 0.000         | 0.000         | 0.004       | 0.004        | 97                | 424.7        | 0.000         | 0.000         | 0.015       | 0.015        | 547               |
| 21             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 62.05        | 0.000         | 0.000         | 0.005       | 0.005        | 27                | 264.1        | 0.000         | 0.000         | 0.041       | 0.041        | 924               |
| 22             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 170.6        | 0.000         | 0.000         | 0.025       | 0.025        | 364               | 671.0        | 0.000         | 0.000         | 0.019       | 0.019        | 1113              |
| 23             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 1433         | 0.000         | 0.000         | 0.014       | 0.014        | 1783              | 713.7        | 0.000         | 0.000         | 0.049       | 0.049        | 3015              |
| 24             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 3371         | 0.000         | 0.000         | 0.005       | 0.005        | 1573              | 295.3        | 0.000         | 0.000         | 0.014       | 0.014        | 344               |
| 25             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 2097         | 0.000         | 0.000         | 0.036       | 0.036        | 6578              | 856.6        | 0.000         | 0.000         | 0.016       | 0.016        | 1169              |
| 26             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 948.8        | 0.000         | 0.000         | 0.006       | 0.006        | 475               | 954.3        | 0.000         | 0.000         | 0.016       | 0.016        | 1278              |
| 27             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 493.2        | 0.000         | 0.000         | 0.020       | 0.020        | 852               | 902.8        | 0.000         | 0.000         | 0.020       | 0.020        | 1560              |
| 28             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 401.4        | 0.000         | 0.000         | 0.035       | 0.035        | 1203              | 1194         | 0.000         | 0.000         | 0.031       | 0.031        | 3176              |
| 29             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 51.55        | 0.000         | 0.000         | 0.005       | 0.005        | 20                | 1369         | 0.000         | 0.000         | 0.029       | 0.029        | 3382              |
| 30             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 50.43        | 0.000         | 0.000         | 0.005       | 0.005        | 20                | 1343         | 0.000         | 0.000         | 0.019       | 0.019        | 2239              |
| 31             |              |               |               |             |              |                   | 485.7        | 0.000         | 0.000         | 0.013       | 0.013        | 537               | 1758         | 0.000         | 0.000         | 0.037       | 0.037        | 5634              |
| Ten Daily Mean |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Ten Daily I    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 81.42        | 0.000         | 0.000         | 0.006       | 0.006        | 53                | 2775         | 0.000         | 0.000         | 0.095       | 0.095        | 55407             |
| Ten Daily II   | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 81.88        | 0.000         | 0.000         | 0.004       | 0.004        | 43                | 985.2        | 0.000         | 0.000         | 0.024       | 0.024        | 2182              |
| Ten Daily III  | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 869.5        | 0.000         | 0.000         | 0.015       | 0.015        | 1221              | 938.2        | 0.000         | 0.000         | 0.026       | 0.026        | 2167              |
| Monthly        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Total          |              |               |               |             |              | 0                 |              |               |               |             |              | 14287             |              |               |               |             |              | 599726            |

Station Name: Vijayawada(AK000B9)  
Local River:Krishna

Daily Observed Datasheet for the Period:2021-2022

Division:Lower Krishna Divn.,Hyderabad  
Sub-Division:Lower Krishna SD2,Vijayawada

| Day            | Sep          |               |               |             |              |                   | Oct          |               |               |             |              |                   | Nov          |               |               |             |              |                   |
|----------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1              | 1970         | 0.000         | 0.000         | 0.053       | 0.053        | 8987              | 2136         | 0.000         | 0.000         | 0.059       | 0.059        | 10814             | 970.7        | 0.000         | 0.000         | 0.007       | 0.007        | 562               |
| 2              | 2377         | 0.000         | 0.000         | 0.103       | 0.103        | 21128             | 2360         | 0.000         | 0.000         | 0.029       | 0.029        | 5912              | 1430         | 0.000         | 0.000         | 0.004       | 0.004        | 457               |
| 3              | 2154         | 0.000         | 0.000         | 0.069       | 0.069        | 12764             | 1423         | 0.000         | 0.000         | 0.010       | 0.010        | 1205              | 1726         | 0.000         | 0.000         | 0.007       | 0.007        | 984               |
| 4              | 2228         | 0.000         | 0.000         | 0.069       | 0.069        | 13247             | 1398         | 0.000         | 0.000         | 0.011       | 0.011        | 1353              | 1008         | 0.000         | 0.000         | 0.013       | 0.013        | 1124              |
| 5              | 2087         | 0.000         | 0.000         | 0.044       | 0.044        | 8008              | 1114         | 0.000         | 0.000         | 0.003       | 0.003        | 279               | 967.5        | 0.000         | 0.000         | 0.014       | 0.014        | 1179              |
| 6              | 1163         | 0.000         | 0.000         | 0.034       | 0.034        | 3447              | 1736         | 0.000         | 0.000         | 0.008       | 0.008        | 1170              | 950.1        | 0.000         | 0.000         | 0.053       | 0.053        | 4359              |
| 7              | 1593         | 0.000         | 0.000         | 0.031       | 0.031        | 4294              | 1413         | 0.000         | 0.000         | 0.006       | 0.006        | 769               | 874.0        | 0.000         | 0.000         | 0.013       | 0.013        | 982               |
| 8              | 3148         | 0.000         | 0.000         | 0.229       | 0.229        | 62169             | 1286         | 0.000         | 0.000         | 0.007       | 0.007        | 800               | 934.9        | 0.000         | 0.000         | 0.009       | 0.009        | 743               |
| 9              | 1959         | 0.000         | 0.000         | 0.125       | 0.125        | 21187             | 1358         | 0.000         | 0.000         | 0.009       | 0.009        | 1068              | 889.8        | 0.000         | 0.000         | 0.047       | 0.047        | 3621              |
| 10             | 1202         | 0.000         | 0.000         | 0.024       | 0.024        | 2534              | 1274         | 0.000         | 0.000         | 0.008       | 0.008        | 913               | 1022         | 0.000         | 0.000         | 0.016       | 0.016        | 1440              |
| 11             | 671.0        | 0.000         | 0.000         | 0.013       | 0.013        | 754               | 1097         | 0.000         | 0.000         | 0.008       | 0.008        | 768               | 1114         | 0.000         | 0.000         | 0.017       | 0.017        | 1646              |
| 12             | 494.1        | 0.000         | 0.000         | 0.009       | 0.009        | 401               | 3581         | 0.000         | 0.000         | 0.062       | 0.062        | 19027             | 1052         | 0.000         | 0.000         | 0.015       | 0.015        | 1345              |
| 13             | 278.3        | 0.000         | 0.000         | 0.011       | 0.011        | 267               | 3203         | 0.000         | 0.000         | 0.022       | 0.022        | 6198              | 935.6        | 0.000         | 0.000         | 0.013       | 0.013        | 1043              |
| 14             | 402.6        | 0.000         | 0.000         | 0.015       | 0.015        | 515               | 1686         | 0.000         | 0.000         | 0.012       | 0.012        | 1675              | 874.0        | 0.000         | 0.000         | 0.013       | 0.013        | 982               |
| 15             | 855.4        | 0.000         | 0.000         | 0.009       | 0.009        | 673               | 1467         | 0.000         | 0.000         | 0.010       | 0.010        | 1318              | 852.3        | 0.000         | 0.000         | 0.020       | 0.020        | 1451              |
| 16             | 631.2        | 0.000         | 0.000         | 0.003       | 0.003        | 164               | 1575         | 0.000         | 0.000         | 0.009       | 0.009        | 1252              | 478.9        | 0.000         | 0.000         | 0.008       | 0.008        | 319               |
| 17             | 962.3        | 0.000         | 0.000         | 0.032       | 0.032        | 2636              | 1919         | 0.000         | 0.000         | 0.019       | 0.019        | 3084              | 326.0        | 0.000         | 0.000         | 0.009       | 0.009        | 262               |
| 18             | 3281         | 0.000         | 0.000         | 0.099       | 0.099        | 28093             | 1073         | 0.000         | 0.000         | 0.023       | 0.023        | 2123              | 312.9        | 0.000         | 0.000         | 0.011       | 0.011        | 284               |
| 19             | 1065         | 0.000         | 0.000         | 0.021       | 0.021        | 1969              | 1123         | 0.000         | 0.000         | 0.008       | 0.008        | 747               | 211.1        | 0.000         | 0.000         | 0.014       | 0.014        | 246               |
| 20             | 639.0        | 0.000         | 0.000         | 0.015       | 0.015        | 800               | 1613         | 0.000         | 0.000         | 0.018       | 0.018        | 2522              | 268.5        | 0.000         | 0.000         | 0.015       | 0.015        | 341               |
| 21             | 1662         | 0.000         | 0.000         | 0.012       | 0.012        | 1751              | 959.3        | 0.000         | 0.000         | 0.006       | 0.006        | 506               | 170.0        | 0.000         | 0.000         | 0.014       | 0.014        | 200               |
| 22             | 1798         | 0.000         | 0.000         | 0.020       | 0.020        | 3044              | 1008         | 0.000         | 0.000         | 0.001       | 0.001        | 113               | 187.2        | 0.000         | 0.000         | 0.010       | 0.010        | 168               |
| 23             | 1334         | 0.000         | 0.000         | 0.010       | 0.010        | 1152              | 819.5        | 0.000         | 0.000         | 0.003       | 0.003        | 219               | 95.75        | 0.000         | 0.000         | 0.015       | 0.015        | 125               |
| 24             | 1867         | 0.000         | 0.000         | 0.023       | 0.023        | 3709              | 655.9        | 0.000         | 0.000         | 0.018       | 0.018        | 1020              | 90.04        | 0.000         | 0.000         | 0.012       | 0.012        | 94                |
| 25             | 1739         | 0.000         | 0.000         | 0.028       | 0.028        | 4163              | 743.4        | 0.000         | 0.000         | 0.002       | 0.002        | 103               | 73.74        | 0.000         | 0.000         | 0.017       | 0.017        | 111               |
| 26             | 1782         | 0.000         | 0.000         | 0.037       | 0.037        | 5759              | 753.3        | 0.000         | 0.000         | 0.013       | 0.013        | 840               | 66.15        | 0.000         | 0.000         | 0.016       | 0.016        | 94                |
| 27             | 1868         | 0.000         | 0.000         | 0.013       | 0.013        | 2034              | 706.7        | 0.000         | 0.000         | 0.018       | 0.018        | 1068              | 48.18        | 0.000         | 0.000         | 0.017       | 0.017        | 70                |
| 28             | 4369         | 0.000         | 0.000         | 0.242       | 0.242        | 91153             | 1026         | 0.000         | 0.000         | 0.007       | 0.007        | 612               | 35.43        | 0.000         | 0.000         | 0.014       | 0.014        | 43                |
| 29             | 4687         | 0.000         | 0.000         | 0.118       | 0.118        | 47740             | 1056         | 0.000         | 0.000         | 0.025       | 0.025        | 2282              | 25.35        | 0.000         | 0.000         | 0.014       | 0.014        | 32                |
| 30             | 3057         | 0.000         | 0.000         | 0.089       | 0.089        | 23589             | 1061         | 0.000         | 0.000         | 0.006       | 0.006        | 559               | 83.87        | 0.000         | 0.000         | 0.014       | 0.014        | 99                |
| 31             |              |               |               |             |              |                   | 1202         | 0.000         | 0.000         | 0.008       | 0.008        | 820               |              |               |               |             |              |                   |
| Ten Daily Mean |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Ten Daily I    | 1988         | 0.000         | 0.000         | 0.078       | 0.078        | 15777             | 1550         | 0.000         | 0.000         | 0.015       | 0.015        | 2428              | 1077         | 0.000         | 0.000         | 0.018       | 0.018        | 1545              |
| Ten Daily II   | 928.0        | 0.000         | 0.000         | 0.023       | 0.023        | 3627              | 1834         | 0.000         | 0.000         | 0.019       | 0.019        | 3871              | 642.5        | 0.000         | 0.000         | 0.013       | 0.013        | 792               |
| Ten Daily III  | 2416         | 0.000         | 0.000         | 0.059       | 0.059        | 18410             | 908.3        | 0.000         | 0.000         | 0.010       | 0.010        | 740               | 87.57        | 0.000         | 0.000         | 0.014       | 0.014        | 104               |
| Monthly        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Total          |              |               |               |             |              | 378131            |              |               |               |             |              | 71140             |              |               |               |             |              | 24405             |

Station Name: Vijayawada(AK000B9)  
Local River:Krishna

Daily Observed Datasheet for the Period:2021-2022

Division:Lower Krishna Divn.,Hyderabad  
Sub-Division:Lower Krishna SD2,Vijayawada

| Day            | Dec          |               |               |             |              |                   | Jan          |               |               |             |              |                   | Feb          |               |               |             |              |                   |
|----------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1              | 75.01        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 2              | 110.9        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 3              | 65.11        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 4              | 64.13        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 5              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 6              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 7              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 8              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 9              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 10             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 11             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 12             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 13             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 14             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 15             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 16             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 17             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 18             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 19             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 20             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 21             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 22             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 23             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 24             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 25             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 26             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 27             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 28             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 29             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |              |               |               |             |              |                   |
| 30             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |              |               |               |             |              |                   |
| 31             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |              |               |               |             |              |                   |
| Ten Daily Mean |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Ten Daily I    | 31.51        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Ten Daily II   | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Ten Daily III  | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Monthly        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Total          |              |               |               |             |              | 0                 |              |               |               |             |              | 0                 |              |               |               |             |              | 0                 |



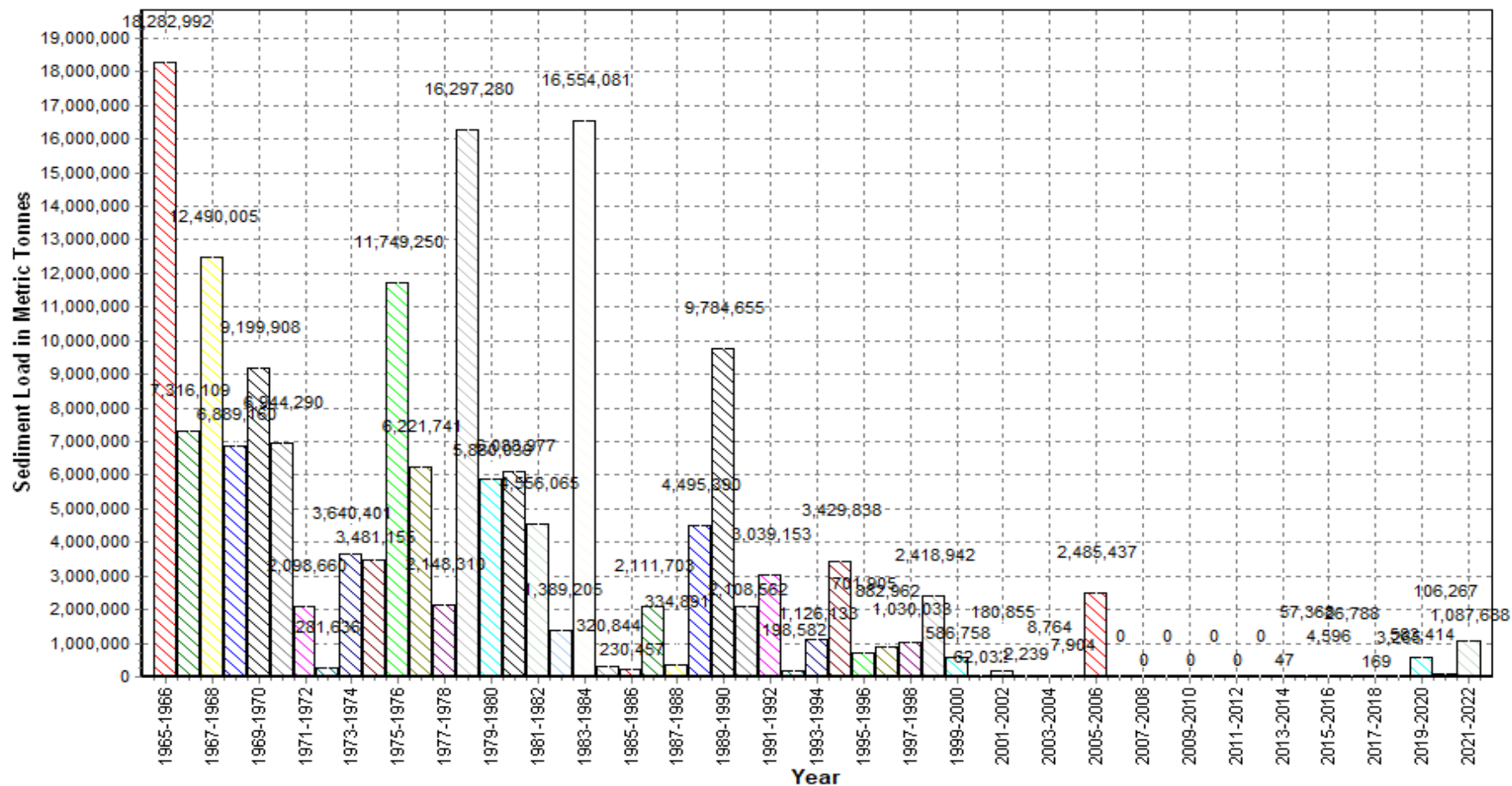
Station Name: Vijayawada(AK000B9)  
Local River:Krishna

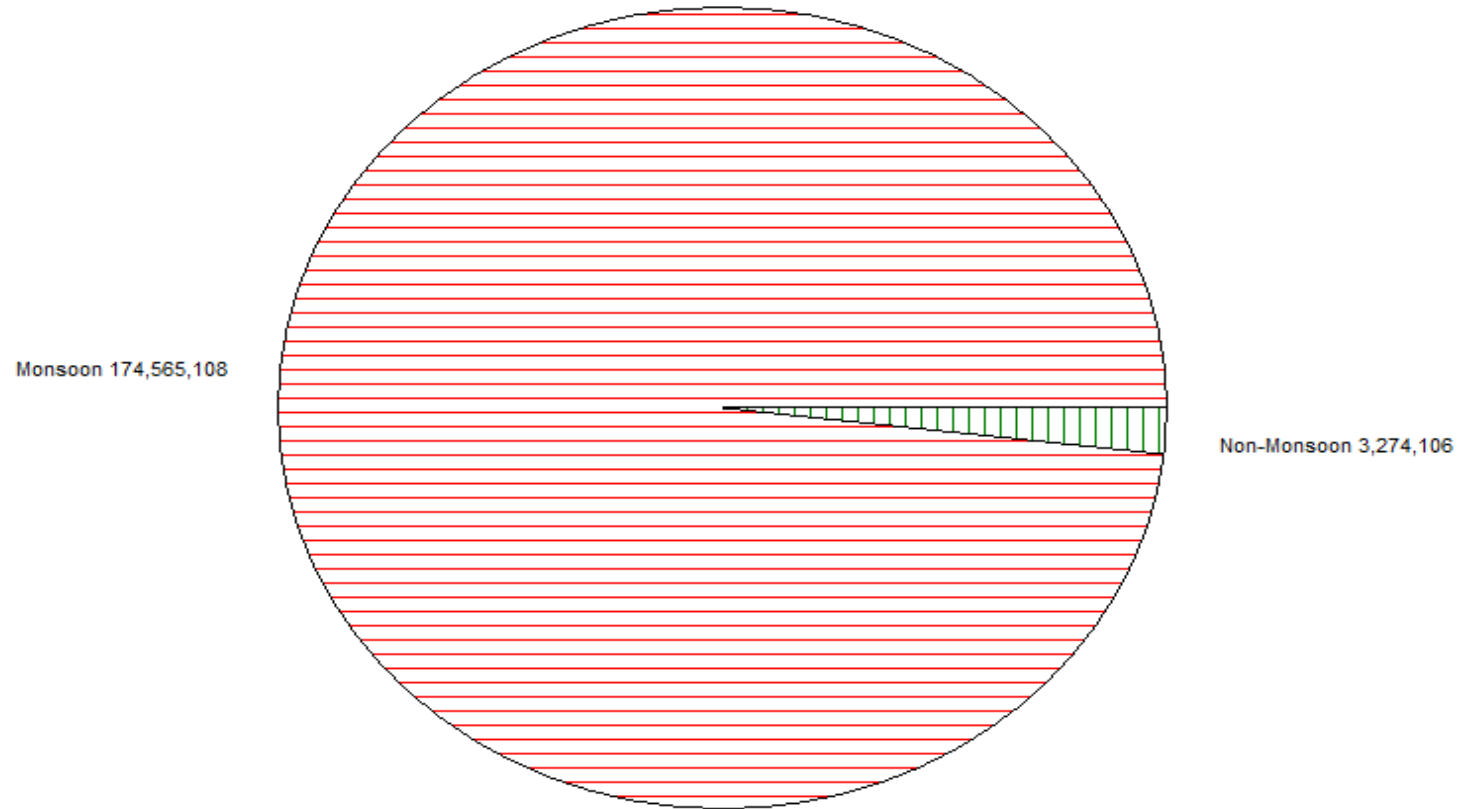
Daily Observed Datasheet for the Period:2021-2022

Division:Lower Krishna Divn.,Hyderabad  
Sub-Division:Lower Krishna SD2,Vijayawada

| Day            | Mar          |               |               |             |              |                   | Apr          |               |               |             |              |                   | May          |               |               |             |              |                   |
|----------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|--------------|---------------|---------------|-------------|--------------|-------------------|
|                | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day | Q<br>cumecs. | Coarse<br>g/l | Medium<br>g/l | Fine<br>g/l | Total<br>g/l | Total<br>M.T./day |
| 1              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 2              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 3              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 4              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 5              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 6              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 7              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 8              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 9              | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 10             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 11             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 12             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 13             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 14             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 15             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 16             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 17             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 18             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 19             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 20             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 21             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 22             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 23             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 24             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 25             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 26             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 27             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 28             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 29             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 30             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| 31             | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |              |               |               |             |              |                   | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Ten Daily Mean |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Ten Daily I    | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Ten Daily II   | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Ten Daily III  | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 | 0.000        | 0.000         | 0.000         | 0.000       | 0.000        | 0                 |
| Monthly        |              |               |               |             |              |                   |              |               |               |             |              |                   |              |               |               |             |              |                   |
| Total          |              |               |               |             |              | 0                 |              |               |               |             |              | 0                 |              |               |               |             |              | 0                 |

| Year      | Monsoon<br>(M.T.) | Non-Monsoon<br>(M.T.) | Annual Load<br>(M.T.) | Annual Run Off<br>(MCM) |
|-----------|-------------------|-----------------------|-----------------------|-------------------------|
| 1965-1966 | 18255449          | 27543                 | 18282992              | 35367                   |
| 1966-1967 | 7226270           | 89839                 | 7316109               | 27921                   |
| 1967-1968 | 12464121          | 25884                 | 12490005              | 31253                   |
| 1968-1969 | 5149261           | 1739899               | 6889160               | 23563                   |
| 1969-1970 | 9178176           | 21732                 | 9199908               | 41982                   |
| 1970-1971 | 6942647           | 1644                  | 6944290               | 43961                   |
| 1971-1972 | 2097587           | 1072                  | 2098660               | 27237                   |
| 1972-1973 | 281192            | 444                   | 281636                | 5402                    |
| 1973-1974 | 3639357           | 1044                  | 3640401               | 33032                   |
| 1974-1975 | 3475359           | 5795                  | 3481155               | 28261                   |
| 1975-1976 | 11711666          | 37584                 | 11749250              | 70162                   |
| 1976-1977 | 6216599           | 5142                  | 6221741               | 30011                   |
| 1977-1978 | 2132763           | 15546                 | 2148310               | 19379                   |
| 1978-1979 | 16207175          | 90104                 | 16297280              | 52067                   |
| 1979-1980 | 5852163           | 27876                 | 5880039               | 25988                   |
| 1980-1981 | 6073122           | 15855                 | 6088977               | 30939                   |
| 1981-1982 | 4541433           | 14631                 | 4556065               | 35835                   |
| 1982-1983 | 1321490           | 67715                 | 1389205               | 14324                   |
| 1983-1984 | 16530133          | 23948                 | 16554081              | 39274                   |
| 1984-1985 | 277607            | 43238                 | 320844                | 10250                   |
| 1985-1986 | 184363            | 46094                 | 230457                | 5466                    |
| 1986-1987 | 2103796           | 7907                  | 2111703               | 4985                    |
| 1987-1988 | 300099            | 34791                 | 334891                | 4311                    |
| 1988-1989 | 4447093           | 48297                 | 4495390               | 33509                   |
| 1989-1990 | 9508421           | 276234                | 9784655               | 21297                   |
| 1990-1991 | 1972636           | 135926                | 2108562               | 29044                   |
| 1991-1992 | 2952120           | 87033                 | 3039153               | 32669                   |
| 1992-1993 | 139533            | 59049                 | 198582                | 9614                    |
| 1993-1994 | 1070218           | 55916                 | 1126133               | 19495                   |
| 1994-1995 | 3363137           | 66701                 | 3429838               | 39131                   |
| 1995-1996 | 681412            | 20493                 | 701905                | 6332                    |
| 1996-1997 | 833752            | 49210                 | 882962                | 19092                   |
| 1997-1998 | 1003524           | 26509                 | 1030033               | 16683                   |
| 1998-1999 | 2388985           | 29957                 | 2418942               | 33692                   |
| 1999-2000 | 555190            | 31568                 | 586758                | 10360                   |
| 2000-2001 | 34663             | 27369                 | 62032                 | 7191                    |
| 2001-2002 | 171230            | 9625                  | 180855                | 3203                    |
| 2002-2003 | 2120              | 119                   | 2239                  | 374                     |
| 2003-2004 | 8570              | 195                   | 8764                  | 333                     |
| 2004-2005 | 7862              | 42                    | 7904                  | 658                     |
| 2005-2006 | 2481137           | 4300                  | 2485437               | 36034                   |
| 2006-2007 | 0                 | 0                     | 0                     | 26741                   |
| 2007-2008 | 0                 | 0                     | 0                     | 26262                   |
| 2008-2009 | 0                 | 0                     | 0                     | 9757                    |
| 2009-2010 | 0                 | 0                     | 0                     | 14510                   |
| 2010-2011 | 0                 | 0                     | 0                     | 13825                   |
| 2011-2012 | 0                 | 0                     | 0                     | 7306                    |
| 2012-2013 | 0                 | 0                     | 0                     | 1715                    |
| 2013-2014 | 0                 | 47                    | 47                    | 11262                   |
| 2014-2015 | 57368             | 0                     | 57368                 | 2373                    |
| 2015-2016 | 4596              | 0                     | 4596                  | 237                     |
| 2016-2017 | 26788             | 0                     | 26788                 | 1439                    |
| 2017-2018 | 169               | 0                     | 169                   | 12                      |
| 2018-2019 | 3231              | 33                    | 3265                  | 1016                    |
| 2019-2020 | 583414            | 0                     | 583414                | 20336                   |
| 2020-2021 | 106114            | 153                   | 106267                | 37102                   |
| 2021-2022 | 1087688           | 0                     | 1087688               | 15091                   |

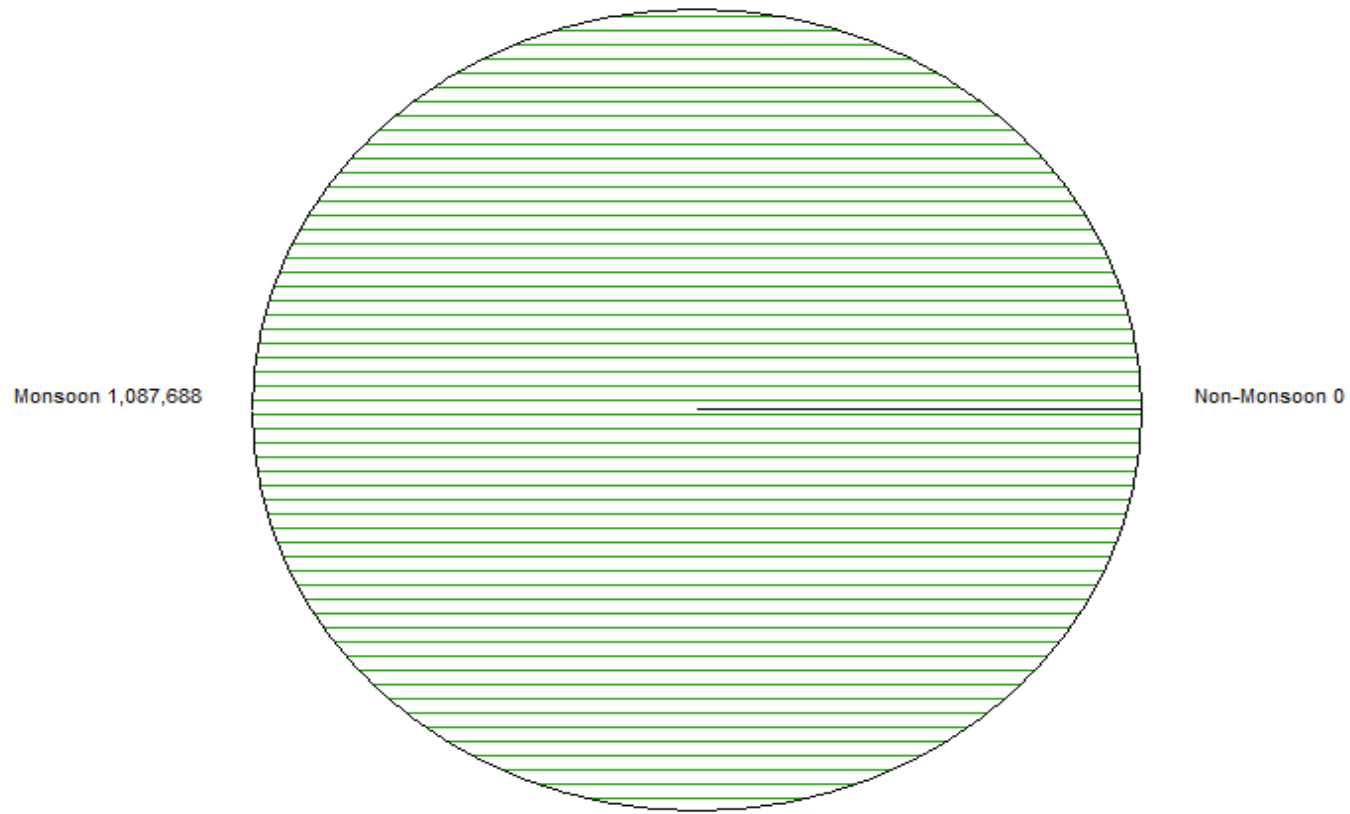




Station Name: Vijayawada(AK000B9)  
Local River:Krishna

Seasonal Sediment Load for the year:2021-2022

Division:Lower Krishna Divn.,Hyderabad  
Sub-Division:Lower Krishna SD2,Vijayawada



**BED MATERIAL ANALYSIS DATA FOR THE YEAR 2021-22**

SITE : KRISHNA AT VIJAYWADA CODE : AK000B9  
 MEASURING : LKDN CROSS SECTION : Station gauge line  
 AUTHORITY

**Premonsoon Survey ( Date 26-05-2021 )**

Discharge Observed : 0 cumec Water edge RB 990.00 m LB : 765.00 m  
 Area of section : 0.00 sq.m MeanVelocit : #Num! m/sec  
 Wetted perimeter : 0.00 Hydraulic Mean Depth : #Num! m

| Sl. No | R.D.of sampling point in meters | R.L. of bed in meters | Mean diameter in mm | Remarks               |
|--------|---------------------------------|-----------------------|---------------------|-----------------------|
| 1      | 70                              | 9.682                 | 0.46                |                       |
| 2      | 280                             | 11.907                | 0.44                | Av.mean               |
| 3      | 490                             | 11.212                | 0.38                | dia "m" = <b>0.48</b> |
| 4      | 700                             | 9.952                 | 0.62                | Silt factor           |
| 5      | 910                             | 7.882                 | 0.56                | "f" =1.76 $\sqrt{m}$  |
| 6      | 1120                            | 9.192                 | 0.54                | = <b>1.22</b>         |
| 7      | 1330                            | 10.912                | 0.35                |                       |

**Note :**  
 i. Discharge observation was at station gauge line.  
 ii. River bed : Flowing water.

**Monsoon Survey ( Date 05-10-2021 )**

Discharge Observed : 1115 cumec Water edge RB 1363.00 m LB : 333.00 m  
 Area of section : 1906.46 sq.m MeanVelocit : 0.5849 m/sec  
 Wetted perimeter : 1030.17 Hydraulic Mean Depth : 1.8506 m

| Sl. No | R.D.of sampling point in meters | R.L. of bed in meters | Mean diameter in mm | Remarks               |
|--------|---------------------------------|-----------------------|---------------------|-----------------------|
| 1      | 70                              | 9.952                 | 0.62                |                       |
| 2      | 280                             | 11.912                | 0.64                | Av.mean               |
| 3      | 490                             | 11.242                | 0.64                | dia "m" = <b>0.71</b> |
| 4      | 700                             | 9.982                 | 0.96                | Silt factor           |
| 5      | 910                             | 7.742                 | 0.68                | "f" =1.76 $\sqrt{m}$  |
| 6      | 1120                            | 9.152                 | 0.68                | = <b>1.48</b>         |
| 7      | 1330                            | 10.952                | 0.71                |                       |

**Note :**  
 i. Discharge observation was at station gauge line.  
 ii. River bed : Flowing water.



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**. कृष्णा एवं समन्वय परिमंडल / KRISHNA & CO-ORDINATION CIRCLE  
हैदराबाद / HYDERABAD**

**मार्च -2023  
March-2023**