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# वार्षिक जल पुस्तिका
# WATER YEAR BOOK
## (जून 2015 – मई 2016)
## (JUNE 2015 - MAY 2016)
# पूरब प्रवाही नदियाँ बेसिन
# EAST FLOWING RIVERS BASIN
## खंड– I, नदी प्रवाह एवं निलंबित गाद आँकड़ा
## Volume-I, Stream Flow & Suspended Sediment Data





कावेरी एवं दक्षिणी नदियाँ परिमण्डल, बेंगलूरू
CAUVERY & SOUTHERN RIVERS CIRCLE, BENGALURU
कावेरी एवं दक्षिणी नदियाँ संगठन, कोयंबतूर
CAUVERY & SOUTHERN RIVERS ORGANISATION, COIMBATORE
मार्च - 2017
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**मार्च – 2017**
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# PREFACE

Water is a precious natural resource with almost fixed quantum of availability. Fresh water has been becoming a scarce commodity day by day in whole world. It's planning and optimal utilization calls for a well developed Data Bank and maintenance of the Data Bank by regular updation. The Central Water Commission under the Union Ministry of Water Resources, River Development and Ganga Rejuvenation, besides being an apex body on Water Resources Sector, has been maintaining a vast system of hydrological data collection Network in different River Basins in India. The collected Hydrological data is being published every water year on basin wise for the benefit of users. This book pertains to the data of East Flowing Rivers Basin from Pennar and Kanyakumari (except Cauvery) under the states of Andhra Pradesh, Tamil Nadu, Puducherry and Karnataka.

With the advent of computerisation of the data, the format of publishing the Water Year Book has also undergone lot of changes. As per the revised format, the Water Year Book is being published in Two Volumes, Volume-I Containing the Stream Flow and Suspended Sediment Data and the Volume-II containing the Water Quality Data. The Book presented here contains the Stream Flow and the Suspended Sediment data in Volume-I for the Water Year 2015-16.

The efforts made by the Southern Rivers Division, Coimbatore, Hydrology Division, Chennai under this Circle and Lower Krishna Division, Hyderabad under Krishna & Godavari Basin Organization, Hyderabad in bringing out this Book deserves appreciation.

Bengaluru
March 2017.

V. Mohan Murali

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Superintending Engineer
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# प्रस्तावना

जल लगभग तय मात्रा में उपलब्धता के साथ एक कीमती प्राकृतिक संसाधन है। ताजा पानी पूरी दुनिया में दिन–ब–दिन एक दुलर्भ वस्तु बन गया है। यह योजना है कि जल संसाधनों का इष्टतम उपयोग के लिए एक अच्छी तरह से विकसित डाटा बैंक की हो और नियमित रूप से डाटा बैंक का अद्यतन किया जाना चाहिए। जल संसाधन, नदी विकास और गंगा संरक्षण मंत्रालय के अंतर्गत केन्द्रीय जल आयोग जल संसाधन क्षेत्र के शीर्ष मंत्रालय के निकाय होने के अलावा भारत के विभिन्न नदी घाटियों का हाइड्रोलॉजिक डाटा संग्रह का एक विशाल नेटवर्क प्रणाली बनाये रखा है। एकत्रित हाइड्रोलॉजिक डाटा का प्रकाशन प्रत्येक जल वर्ष पुस्तक में बेसिन क्रम में उपयोगकर्त्ताओं के लाभ के लिए किया जाता है। इस पुस्तक में आंध्रप्रदेश, तमिलनाडु पुडुचेरी तथा कर्नाटक राज्यों के अंतर्गत पूर्व की ओर बहने वाली नदियों बेसिन (कावेरी नदी को छोड़कर) का डाटा है।

डाटा के कम्प्यूटरीकरण के आगमन से जल वर्ष पुस्तक के प्रकाशन प्रारूप में बहुत परिवर्त्तन आया है। संशोधित प्रारूप के अनुसार जल वर्ष पुस्तक दो संस्करणों में प्रकाशन हो रहा है। प्रथम संस्करण में धारा प्रवाह तथा निलंबित तलछट डाटा और द्वितीय संस्करण में जल गुणवत्ता डाटा के साथ प्रकाशित किया जा रहा है। 2015–16 के जल वर्ष पुस्तक के प्रथम संस्करण में धारा प्रवाह तथा निलंबित तलछट डाटा शामिल है।

इस परिमंडल के अंतगर्त दक्षिणी नदियॉ मंडल कोयंबत्तूर, जल विज्ञान मंडल चेन्नई तथा कृष्णा एवं गोदावरी बेसिन संगठन के अंतगर्त ऊपरी कृष्णा मंडल, पूने के प्रयासों से इस पुस्तक का प्रकाशन हुआ सभी प्रंशसा के हकदार है।

वू. मोहन मुरलि

बेंगलुरू
मार्च, 2017

( वू. मोहन मुरलि )
अधीक्षण अभियंता
कावेरी एवं दक्षिणी नदियाँ परिमण्डल

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# 1.0 BASIN DESCRIPTION

## 1.1 GEOGRAPHICAL DESCRIPTION OF THE BASIN

The basin of East flowing rivers consists of a number of independent river basins of peninsular India lying to the South of Krishna basin, except Cauvery basin. The East flowing rivers are draining into the Bay of Bengal.

The basin of the East flowing rivers (excluding Cauvery) covers large areas in the states of Andhra Pradesh, Tamil Nadu, Puducherry and a small area in the state of Karnataka. There are twelve river basins of which the Pennar, Palar and Ponnaiyar are more important. Other river basins are the Gundlakamma, the Paleru, the Swarnamukhi, the Kalingi, the Varahanadi, the Vellar, the Vaigai, the Vaippar and the Tambraparani.

There are **27** Hydrological Observation Stations and **23** Rain Gauge Stations maintained by Central Water Commission. Also, the Government of Tamil Nadu is maintaining another 40 Hydrological Observation Stations and 208 Rain Gauge Stations. Further, 10 Nos of Rain Gauge Stations are maintained by IMD. A basin map showing Hydrological Observation Stations and Rain Gauge Stations of both Central Water Commission and India Meteorological Department (IMD) is presented in **Plate-I**. The details of classification of CWC Hydrological observation stations is given in **Annexure-I.** Another map showing Hydrological observation stations and Rain Gauge Stations maintained by Tamil Nadu State Government is enclosed as **Plate-II**. The Tree Structures of Pennar, Palar and Ponnaiyar River Basins are also enclosed as **Plates- III, VI & VIII** respectively.

## 1.2 DESCRIPTION OF THE RIVER SYSTEM

### THE GUNDLAKAMMA

The Gundlakamma river rises near Iskagundam village in Kurnool district at an elevation of 600 m from the Eastern slopes of the Nallamala hills at North latitude 15º 38' and East longitude 78º 47' and flows in a North-East, East and Southern direction for a total length of 220 km to join the Bay of Bengal. The total area drained by this river is 8,494 Sq Km. The Kandleru is its important left bank tributary. Central Water Commission is operating one Hydrological Observation site on this River at **Marella.**

**THE PENNAR**

The Pennar river is one of the major East flowing rivers in Southern India. It rises in the Chennakesava hill of the Nandidurg range in Karnataka, flows in the North - Westerly direction through the Kolar and Tumkur Districts of Karnataka. It enters Andhra Pradesh in the Hindupur taluk of Anantapur district, runs Eastwards before draining into the Bay of Bengal near Nellore. The Basin lies between East longitude 77º 04' to 80º 10' and North latitude 13º 16' to 15º 52'. The Pennar drains an area of 55,213 Sq.Km in the states of Karnataka and Andhra Pradesh as below.

| Name of State | Catchment Area ( in Sq.Kms) | Percentage of Total Catchment area. |
|---|---|---|
| Karnataka | 6,937 | 12.6 |
| Andhra Pradesh | 48,276 | 87.4 |
| Total | 55,213 | 100.0 |

The total length of Pennar river is 597 Km of which 61 Km runs in Karnataka and the rest in Andhra Pradesh. This river has six major tributaries namely, the Jayamangali, the Kunderu and the Sagileru joining from the left, the Chitravathi, the Papagni and the Cheyyeru joining on the right.

The Catchment Area, Length and elevation at source of some of the important tributaries joining the Pennar are given below:

| Name of the River | Bank | Elevation at source ( M ) -above MSL | Length (Km) | Catchment Area (Sq. Kms) |
|---|---|---|---|---|
| Jayamangali | Left | 1200 | 77 | 1282 |
| Chitravathi | Right | 1200 | 218 | 5908 |
| Kunderu | Left | 500 | 205 | 8057 |
| Papagni | Right | 950 | 205 | 7423 |
| Sagileru | Left | 700 | 141 | 3077 |
| Cheyyeru | Right | 700 | 87 | 7325 |

Central Water Commission is operating **9** Hydrological Observation sites on Main Pennar and its tributaries located **at i) Nellore, ii) Nandipalli, iii) Chennur, iv) Alladupalli, v) Kamalapuram, vi) Nandalur, vii) Tadipatri, viii) Nagalamadike and ix) Singavaram.**

**THE SWARNAMUKHI**

The Swarnamukhi is an East Flowing river basin having a Catchment area of 3,225 Sq.Km. It rises at an elevation of 300 m in the Eastern Ghat ranges near Pakala village in Chittur district of Andhra Pradesh at North latitude 13° 28' and East longitude 79° 09'. It runs generally in the North-Eastern direction passing through the famous Tirupati hills before joining into the Bay of Bengal. Its total length is 130 Km. This is an independent river and has no major tributaries and therefore its flow depends only on rainfall in its upper Catchment. The Hydrological observation site on this River is located at **Naidupeta**.

**THE KALINGI**

The river Kalingi is one of the East flowing rivers in Andhra Pradesh. It originates near Kalahasti in Andhra Pradesh and drains completely in Andhra Pradesh and joins Pulicat lake after Sulurpet. The Catchment area of Kalingi river is 5,927 Sq.Km and the length is 76 Km. The important tributary is Kalleru river which joins Kalingi river after Sulurpet town. Central Water Commission is operating one Hydrological Observation site on this River at **Sulurpet**.

**THE PALAR**

The Palar Basin is an important basin among the 12 basins lying between the Pennar and the Cauvery basins. This basin is divided into three major topographical divisions namely, i) the hill ranges of Eastern Ghats ii) the plateau region and iii) the coastal plains. Though most of the drainage area lies in Tamil Nadu, its drainage area extends to cover the South-East and South-Western parts of Karnataka and Andhra Pradesh respectively. The shape of the basin is rhombus and finds its outlet in to Bay of Bengal. Central Water Commission is operating 4 Hydrological Observation sites on this basin at **i) Avarankuppam, ii) Arcot iii) Magaral and iv) Chengalpet.**

The Palar drains an area of 17,871 Sq.Kms out of which nearly 57 percent lies in Tamil Nadu and the balance in the states of Karnataka and Andhra Pradesh. The State wise distribution of the drainage area is given below:

| Name of State | Drainage Area ( Sq.Kms) | Percentage of Total |
|---|---|---|
| Karnataka | 3044 | 17.0 |
| Andhra Pradesh | 4681 | 26.2 |
| Tamil Nadu | 10146 | 56.8 |
| Total | 17871 | 100.0 |

The river Palar rises beyond Talagvare village in the Kolar district of Karnataka state at an elevation of about 900 m above m.s.l. The total length of this East flowing river from its origin to its outfall into the Bay of Bengal is about 348 Km. The flow is generally in the South-Easterly direction for the first 93 Km. Then it flows through the Kolar District of Karnataka, before entering the Chittoor District of Andhra Pradesh, through which it flows for another 33 Kms. After passing through the States of Karnataka and Andhra Pradesh the river enters the Vellore District of Tamil Nadu. After traversing for another 222 Kms in Vellore and Kanchipuram Districts in Tamil Nadu, the river Palar finally discharges into Bay of Bengal near Kuvattur. On its way, the river Palar receives two important tributaries namely, the Poini on the left bank and the Cheyyar on the right bank. These two important tributaries i.e the Poini and the Cheyyar, together account for nearly 25 percent of the total Catchment of the Palar basin. The Poini rises in the Chittoor district of Andhra Pradesh at an elevation of 1,050 m and flows generally in the Easterly and South-Easterly direction before joining the Palar on its left bank near Walajapet. The Cheyyar, another major tributary rises in the Jawadu hills in the Chengam taluk of Tiruvannamalai district of Tamil Nadu and flows generally in the North-Easterly direction before confluencing with the Palar near Tirumukkudal. The catchment area, length and elevation at source of these two tributaries are given below:

| Name of River | Bank | Elevation at source above m.s.l.(m) | Length (Km) | Catchment Area (Sq.Km) |
|---|---|---|---|---|
| Poini | Left | 1,050 | 90 | 2,400 |
| Cheyyar | Right | 1,080 | 190 | 1,953 |

**THE VARAHANADI**

The main river Varahanadi originates from the Northern part of Pakkammalai hills at an elevation of 566 m above m.s.l, in the Western slopes past of Gingee Taluk. It has two arms. The left arm originates from Melmalayanur while the right arm originates from Pakkammalai hills and they join together near Thenpalai village and forms the main river Varahanadi and flows in an Easterly direction. On its way, the river Varahanadi receives a number of small streams and rivulets. The total area of the basin is 2564 Sq.Kms. The river runs in Easterly direction up to Kodukkur and South-Easterly direction alternately in Tami Nadu and Puducherry states. The total length of Varahanadi up to its outfall into Bay of Bengal, a little South of Puducherry state, is about 78.50 kms. There is one Hydrological Observation Site on this stream at **Kumarapalayam** being operated by Central Water Commission.

**THE PONNAIYAR**

The Ponnaiyar Basin is the second largest interstate East flowing river basin among the 12 basins lying between the Pennar and Cauvery basins. It covers a large area in the state of Tamil Nadu besides the areas covered in the states of Karnataka and Andhra Pradesh. It lies between East longitude 77° 33' to 79° 47' and North latitude 11° 45' to 13° 30' The Basin is bounded on the North -West and South by various ranges of the Eastern Ghats like the Velikonda Range, the Nagari hills, the Javadu hills, the Shevaroy hills, the Chitteri hills and the Kalrayan hills and in the East by the Bay of Bengal.

The Ponnaiyar drains an area of 16,019 Sq Kms out of which nearly 77 percent lies in Tamil Nadu. The State wise distribution of the drainage area is as follows:

| Name of State | Drainage Area ( Sq.Kms) | Percentage of Total |
|---|---|---|
| Karnataka | 3,530 | 22.0 |
| Andhra Pradesh | 210 | 1.3 |
| Tamil Nadu | 12,279 | 76.7 |
| Total | 16,019 | 100.0 |

The Ponnaiyar or the Dakshina Pinakini River rises near Hongashenhalli village at an elevation of about 900 m above m.s.l at North latitude 13º 25' and East longitude 77º 58' in the Kolar district of Karnataka state. From its origin, the river Ponnaiyar generally flows in the Southern direction for a length of 79 km. through Kolar and Bangalore districts of Karnataka before entering the Dharmapuri district of Tamil Nadu. The river flows another 247 Kms generally in the South-Easterly direction in the districts of Dharmapuri, Vellore, Tiruvannamalai, Cuddalore and Villupuram. The river then flows in Easterly direction below the Tirukoyilur anicut for another 70 Kms before finding its way into Bay of Bengal. The river Ponnaiyar branches into two, the Gadilam and the Ponnaiyar below the Tirukoyilur anicut. The Gadilam joins the Bay of Bengal near Cuddalore and the Ponnaiyar near the Union Territory of Pondicherry. On its way, the river receives a number of small streams and rivulets. . Central Water Commission is operating 3 Hydrological Observation sites on this stream at **i) Gummanur, ii) Vazhavachanur and iii) Villupuram.** While the Site Gummanur is situated up-stream of Krishnagiri Reservoir the sites Vazhavachanur and Villupuram are operating downstream of Sathanur reservoir.

**THE VELLAR**

The basin is located between Ponnaiyar and Cauvery basins. The Vellar river rises at an elevation of 900 m near the village of Tumba in the Chittori hills, of the Eastern Ghats in the Salem district of Tamil Nadu. It flows generally in an Easterly direction for a total length of 210 Km in the Salem and Cuddalore districts in Tamil Nadu and finally out falls in to the Bay of Bengal near Porto Nova in Cuddalore district. The Gomukinadhi and Manimukthanadhi are the important left tributaries and Swetanadhi and Chinnar are the right tributaries of the Vellar. The Vellar drains an area of 8,922 Sq.Km. One Hydrological Observation site at **Kudalaiyathur** is located on this stream.

**THE VAIGAI**

The Vaigai basin is an important basin among the 12 basins lying between the Cauvery and Kanyakumari. This basin is bounded by the Varushanadu hills, the Andipatti hills, the Cardaman hills and the Palani hills on the West and by the Palk strait and Palk Bay on the East. This basin is divided into two major topographical divisions namely (i) the hilly areas and (ii) the plains. The basin is elongated in shape and drains into the Palk Bay. The Vaigai drains an area of 7,741 Sq.Km, which entirely lies in the state of Tamil Nadu.

The Vaigai river rises on the Eastern slopes of the Varushanadu hills at an elevation of 1,200 m above m.s.l near Kottaimalai in the Madurai district at North latitude 9º 32' and East longitude 77º 23' and flows in the Northerly and North-Easterly directions up to its confluence with the Varahanadi and then takes a turn towards the East and South-East to flow through Madurai, Sivagangai and Ramanathapuram districts. After traversing for about 258 Km, the river Vaigai discharges into Ramnad big tank and some other tanks. The surplus water from the tanks finally discharges into the Palk Bay near Mandapam. On its way, the Vaigai receives two important tributaries namely, the Suruliyar and the Manjalar on its left bank, besides a large number of small streams and rivulets. The river has been dammed down stream of its confluence with the Suruliyar.

The Suruliyar and the Manjalar, the two important left bank tributaries together account for nearly 20 percent of the total Catchment area of the Vaigai. The Suruliyar, the principal tributary of the Vaigai also rises in the Eastern slopes of the Varushanadu hills and flows in the North and North-Easterly direction. It receives Theniar on its left bank, just before its confluence with the Vaigai. The Manjalar another major tributary rises in the Palani hills and flows generally in the Easterly direction before joining the Vaigai below the Vaigai dam. The Manjalar is joined by the Marudhanadhi on its left bank before joining the Vaigai. The Vaigai also receives another minor tributary namely, the Varahanadi on its left bank below the Vaigai dam. The Catchment area, length and elevations at source of the important tributaries are given below.

| Name of the River | Bank | Elevation at source above m.s.l ( M ) | Length ( Km) | Catchment Area ( Sq.Km) |
|---|---|---|---|---|
| Manjalar | Left | 1,948 | 40 | 375 |
| Suruliyar | Left | 1,628 | 60 | 1,210 |
| Varahanadi | Left | 2,502 | 40 | 380 |

Central Water Commission is operating **THREE** Hydrological Observation Stations on this basin i.e at **Paramakudi** & **Ambasamudram** on R-Vagai and other at **Theni** on R-Suruliyar , a tributary of R-Vagai.

**THE VAIPPAR**

The Vaippar river rises on the Eastern slopes of the Varushanadu hill ranges of the Western Ghats near Sivagiri in Thirunelveli district in Tamil Nadu at an elevation of about 900 m. It flows generally in an Easterly direction for a length of about 125 km through Thirunelveli, Virudhunagar and Tuticorin districts in Tamil Nadu and joins the gulf of Mannar near Kalattur. The river basin is located on South of Vaigai. It drains a total Catchment area of 5,069 Sq.Km. The Catchment area lies entirely in Tamil Nadu. The Arjunanadhi and Vijayanadhi are the important tributaries. Both the tributaries are left tributaries. There is one Hydrological observation Station at **Irrukkankudi** on this stream operated by Central Water Commission.

**THE TAMBRAPARANI**

The Tambraparani river rises on the Eastern slopes of the Western Ghats at an elevation of about 1,400 m at North latitude $8^0$ 46' and East longitude 77° 15' near Alwarkurichi village in Thirunelveli district of Tamil Nadu to flow in a generally Easterly direction for a total length of 130 km and join the gulf of Mannar. The Chittar and Manimuthar are the important left and right bank tributaries of the Tambraparani. The Tambraparani drains an area of 5,482 Sq.Km. Two Hydrological Observation Stations are being operated by Central Water Commission one on R- Tambraparani at **Murappanadu** and the another at **A.P.Puram** on R-Chittar, a tributary of of R- Tambraparani.

## 1.3 CLIMATIC CHARACTERISTICS

The normal annual rainfall in the above 11 basins varies from region to region. The coastal areas of the basins get heavier rainfall than the Western parts. In the basins Swarnamukhi, Palar & Ponnaiyar, the rainfall decreases from 1270 mm in the coastal region to 762 mm in the Western parts. In the Pennar basin, it decreases from 988 mm in the coastal region to 508 mm in the Western parts.

As the basins mentioned above are subject to tropical climate, the temperature varies with season. The mean maximum temperature in the month of May varies from 41° C in Kadapa region of Pennar basin to 30° C in the

Palar & Ponnaiyar basin. The mean minimum temperature varies from 17$^{o}$ C in Pennar basin to 25$^{o}$ C in Palar & Ponniyar basins.

The Climatic features of Basins Pennar, Palar, Vaigai and Swarnamukhi are given below in some detail.

**THE PENNAR**

The normal annual rainfall decreases from 988 mm at Nellore in the Eastern end of the basin to about 508 mm at the Western end. A large part of the basin lying in the state of Karnataka and Anantapur, Kurnool and Kadapa districts of Andhra Pradesh receive less than 762 mm rainfall. Parts of Nellore and Kadapa districts, adjacent to the seacoast receive some rain from the retreating monsoon also.

The entire basin is practically dry and the interior of the basin, especially Kadapa district, experiences severe heat during hot weather which normally extends from the middle of February to the middle of June. The mean of maximum and mean of minimum temperatures at places like Kadapa and Arogyavaram are 40.9° C and 16.9° C respectively. In the cool weather the mean of maximum and the mean of minimum temperatures are 34.6° C and 15.2° C respectively.

**THE PALAR**

In this basin, rainfall varies from region to region. The coastal districts in the basin get heavier rainfall than the Western parts. The rainfall decreases from 1,270 mm at the Eastern extremity of the basin to 762 mm at the Western extremity. This basin receives rainfall from both the monsoons i.e., during the South -West monsoon Western part of the basin gets rain, whereas, the Eastern parts receive rainfall during the North -East monsoon.

As the basin is subject to tropical climate, the temperature of the basin varies with the season. In the month of January the mean temperature varies from 22.5° to 25° C and in the month of May, the mean temperature varies from 30° C to 32.5° C

**THE VAGAI**

The rainfall in this basin varies from region to region. The rainfall decreases from 1,270 mm at the Western extremity of the basin to 635 mm at the Eastern extremity and the average rainfall is about 850 mm. Tambraparani

As this basin is situated in the rain shadow area of the Western Ghats, it receives very little rainfall during South-West monsoon in the hilly region. At times, the basin receives heavy rainfall in the coastal regions whenever intensive depression is formed in the Bay of Bengal during North-East monsoon.

This basin is subject to a tropical climate and as such the temperature varies with the region. In the hilly Western part, variation of temperature during the year is less, whereas in the plains the mean temperature is around 25° C in January and 27.5° C to 35º C in May.

**THE SWARNAMUKHI**

The average annual rainfall in the Swarnamukhi basin decreases from 1270 mm at the Eastern extremity of the basin to 762 mm at the Western extremity. The North- East monsoon sets in the month of October and withdraws by the end of November. The mean of maximum temperature in the catchment varies from 30º C to 32º C and minimum between 22.5º C to 25 ºC.

## 1.4 GEOLOGY

**THE PENNAR**

The basin consists mainly of red, black, sandy and mixed soil. The important rock formations are hard or crystalline rocks of Archean age Dharwar Super Group, Kadapa series of rocks belonging to Proterozoic age, soil comprising of Guvalacheruvu quartzite, Vempally dolomites, lime stones and shales of Papagni series and Cheyyeru series. The Nallamala series comprise of cumbum shales, which are metamorphosed to slates and phyllites.

**THE PALAR**

In the upper reaches of the basin it is predominantly covered by granite gneisses, Gondwanas, Kadapa formations of Archaeans belonging to Dharwarian system with basic intrusives. The central portion of the catchment is covered by archaean crystalline hard rock and sedimentary rocks. Alluvial deposits are found all along the coastal belt and Palar River course comprising of marine and riverine deposits. Due to uplift of landmasses and tectonic activities, the archaean dharwarian hard rocks were subjected to deformation into folds and faults and also resulted in shifting of river courses in basin area.

**THE VARAHANADI**

Major portion of the basin area (84%) comprises of hard crystalline rocks of Archaean groups viz. granulite, biotite, shattered gneiss, magnetite quartzite, pyroxene granulite and charnockite. The general foliation of the rocks are in NNE to NE direction with dip towards SSE to SE direction with an angle of 55° to 80°. The remaining portion of the basin area (16%) consists of sedimentary formation. The marine sediments existing along the coastal area comprises of tidal flats, mudflat and beach/sanddune deposits.

**THE PONNAIYAR**

The Ponnaiyar basin is covered by the Archaean rocks such as Pyroxene granulites, Quartzite, Ferruginous Quartzite, Amphibolites, Gneiss and Hornblende biotite gneiss with younger intrusive of Pegmatite and Dolerite in the central and western parts . The eastern part is covered by the cretaceous formation of argillaceous, calcareous sandstone with clay and limestone. The tertiary formation is of Cuddalore sandstones and the recent formation of river alluvium and coastal alluvium.

**THE VELLAR**

Vellar river basin comprises of crystalline rocks of Archaean age on the western part of the basin and sedimentary formation of Cretaceous, Tertiary and Quaternary ages on the eastern part. The oldest rock members, are pyroxenites, amphibolites, gneisses, granulites, quartzites, migmatite. Later, charnockites, granites and younger intrusives of pegmatite occur within the older rocks. The general trend of foliations are NE-SW with variation to East-west and dipping South-east North-west, showing minor flextures in the folding in several locations . 82 % of the basin area comprises of hard rock terrain. 18% of the area is underlain by Cretaceous argillaceous sandstone and shell limestone, Tertiary Cuddalore sandstones and Quaternary alluvium.

**THE VAIGAI**

Vaigai river basin consists of hard crystalline rock masses of archaean age for the most part (74%) on the western portion and sedimentary rocks of upper gondwana, tertiary and quarternary age on the eastern portion (26%). The archaean formations are metamorphosed rocks such as cordierite, sillimanite bearing gneisses, quartzites, calc, gneisses and granulites. They are associated with basic charnockites and pink granites. Pegmatites intrude in the charnockites, pink granites and gneisses at several locations as intrusive body. Pyroxenite intrusions are also found to occur at fewer places. These archaean formations are well exposed on the western and central area of the vaigai river basin. The high rising mountains composed of the above mentioned rock types have yielded material due to weathering and erosion and they were deposited in the valley and intermontane basins as valley filled sediments and are of quaternary age. On the eastern portion from manamadurai to the bay of bengal, rocks of upper gondwana, teritiary alluvium and coastal alluvium are spread over the archaean formations unconformably. Aeolian sands are also found to occur in isolated pockets in the cumbum valley and coastal areas.

**THE VAIPPAR**

The Vaippar river basin comprises of the Archaean group of hard rocks viz. charnockite, complex gneiss, limestone and basic metamorphic rocks, young intrusive rocks like pegmatite, quartz veins and sub recent alluvium. Major part of the Vaippar basin except in the west is occupied by complex gneiss like hornblende gneiss, mica gneiss and pink & grey granite gneiss. The next important group is the charnockite series, spread over the western part of the basin. The alluvium extends around 200 meters on either side of the Vaippar river in the eastern part of the basin. Coastal alluvium exists parallel to the coast upto a distance of 4 km from the sea.

**THE TAMBRAPARANI**

Geology of Tamiraparani basin comprises of crystalline rocks of Archaean age on the western portion and sedimentary formation of Tertiary and Quaternary ages on the eastern coastal area. Nearly 90% of the basin area is covered by the crystalline rocks such as metamorphosed rocks (gneisses and charnockites). Sedimentary formations of Tertiary age consists of calcareous tufa sandstones and shell limestones. Quaternary formations are laterite, kankar, shell limestone, alluvium, theri sands and silts. The windblown red sanddunes of Sawyerpuram theri and Kudiraimozhi theri occur in the northeastern and southeastern part of the basin respectively.

## 1.5 DESCRIPTION OF THE WATER STORAGE/ DIVERSION STRUCTURES

There are as many as 115 completed/on going important major, medium and minor projects across the various streams and their tributaries in all the East flowing rivers basins out of which there are 34 completed/ongoing projects across the Pennar and its distributaries alone. Mylavaram and Somasila are the two important projects in Pennar Basin. The details of projects in Gundlakamma, Pennar, Palar, Ponnaiyar, Vellar, Vaigai, Vaippar and Tambraparani basins are given at **Annexures- II to IX** respectively. The Reservoir data has been taken from the CWC publication ‘Storages in river basins of India’ (1990), History of irrigation development in Tamil Nadu published by Indian National Committee on Irrigation and Drainage (MOWR),New Delhi (March 2001) and partly collected from the irrigation department, Governments of Andhra Pradesh, Karnataka & Tamil Nadu.

A map showing the location of CWC Hydrological Observation Stations and some of the completed/ongoing Projects is enclosed as **Plate – XIII.**

Salient features of some of the Major projects are given below:

**THE PENNAR**

**MYLAVARAM**: This is a completed medium irrigation project across Pennar rivers located near Mylavaram town of Jammalamadugu taluk of Kadapa district in Andhra Pradesh. The project envisages an earthen dam with a gross storage capacity of 283 M.cum. The two canal systems namely, Mylavaram reservoir North and South canals off take from the dam have an irrigation potential of 75,000 acres spread over the Jammalamadugu, Proddatur and Kamalapuram taluks of Kadapa district and Koilkuntla and Allagadda taluks of Kurnool district. The total length of the dam is 2,850 m with top width being 6 m. The height of earthen dam is 24.3 m. The Pennar River has a catchment area of 19,197 Sq.Km up to the dam site.

**SOMASILA**: This is a major irrigation project under construction across the Pennar river situated near Somasila. This project with a storage capacity of 463 M.Cum in stage-I and 2,093 M.Cum in stage-II is having four canal systems namely, North feeder canal, South feeder canal, Kavali canal and Kanpuru canal and is planned to be completed in two stages.

The length and height of the dam by the completion of second stage are 766.6 m and 40 m respectively. The top width of the dam is 6.86 m in the masonry structure and 9.4 m in the earthern bund.

**THE KALINGI**

At present there are two medium irrigation projects in this basin namely, (1) Kalingi Reservoir and (2) Thanyali Anicut which irrigate an area of 4,650 acres and 10,000 acres respectively.

**THE PALAR**

At present there are about 8 completed anicut type structures in the Palar catchment. The salient features of the two important structures, namely, the Palar anicut and the Poini anicut are as follows.

**PALAR ANICUT**: This anicut is situated across the Palar River, 7 Km below the town of Arcot. The project comprises of (i) an anicut 796 m long and 1.8 m high of brick and rough stone in chunam founded on two rows of circular wells, (ii) a head sluice of 16 vents 2 m each on left bank (iii) two head sluices on the right bank and (iv) the canal system, comprising four channels, two on either side. The water from the channels is led to the tanks, which in turn irrigates an area of about 33,600 hectares. This anicut was commissioned in 1858.

**POINI ANICUT**: The Poini anicut is located across the river Poini about 19 Km above its confluence with the Palar and about 4 Km South of Poini village in Vellore district. It is 216 m long and 2.4 m high and has canal systems on either side to irrigate an area of 9,690 hectares. This project was completed in 1897.

**THE PONNAIYAR**

At present there are eleven completed structures either reservoirs or weirs in the Ponnaiyar catchment. The salient feature of the two important structures, viz. Krishnagiri reservoir and Sathanur reservoir are given below.

**KRISHNAGIRI RESERVOIR**: This reservoir is located on river Ponnaiyar near Krishnagiri in the Dharmapuri district of Tamil Nadu. It intercepts a Catchment area of about 5,428 Sq.Km. The project consists of 712.93 m long earthen dam and 277.67 m long masonry dam with a maximum height of 29.26 m with two canals taking off from either side. The reservoir with a storage capacity of 66.1 M.cum. irrigates an area of about 3,642 hectares. This project was commissioned in the year 1958.

**SATHANUR RESERVOIR**: This reservoir is located on river Ponnaiyar near Tiruvannamalai in the Tiruvannamalai district of Tamil Nadu. The project consists of 359.66 m long earthen dam and 426.72 m long masonry dam with a maximum height of 44.81 m. The reservoir intercepts a Catchment area of 10,825 Sq.Km and has a storage capacity of 228.91 M.cum. Two canals take off on either side of the river are planned to irrigate an area of 18,210 hectares. This project was also commissioned in the year 1958.

**THE VAIGAI**

**VAIGAI RESERVOIR**: The Vaigai reservoir is located on river Vaigai near Periyakulam in Madurai district of Tamil Nadu. It intercepts a catchment area of 2,253 Sq Km. The project consists of 3,243 m long earthen dam and 232 m long masonry dam with a maximum height of 33.83 m. This reservoir with a gross storage capacity of 194.78 M.cum can irrigates an area of 9,650 hectares. The project was commissioned in the year 1959.

**MANJALAR RESERVOIR**: The Manjalar reservoir is located on river Manjalar near Periyakulam in Madurai district of Tamil Nadu. The reservoir consists of an earthen dam of length and height of 1,004.62 m and 28.33 m respectively. It intercepts a catchment area of 106.48 Sq.Km. The gross capacity of the reservoir is 13.48 M.cum and irrigates an area of 810 hectares. The project was commissioned in the year 1967.

**MARUDHANADHI RESERVOIR**: The Marudhanadhi reservoir is located on river Marudhanadhi near Dindigul in Dindigul district of Tamil Nadu. The project consists of an earthern dam of length and height of 786.38 m and 27.43 m respectively. It intercepts a Catchment area of 53.35 Sq.Km. The reservoir with a gross storage capacity of 4.93 M.cum is irrigating an area of 1,527 hectares. The project was commissioned in the year 1979.

# 2 STREAM FLOW DATA

## 2.1 METHODOLOGY

The standard method being adopted at all the sites for collecting the data is explained briefly as under:

Three lines of staff gauges are maintained at all the sites for observing water levels and surface slope. All these levels are connected to GTSBM value. The Water Level at Central Gauge line is used for arriving at a Stage-Discharge relationship at each site.

Velocities are recorded by using current meters as per IS:3918-1966 (reaffirmed -2001) by boat with cable way or with outboard engine at higher stages and by wading at lower stages. Where the facility of boats is not available, Discharge measurements are carried out from the near by bridges.

Observed data at the field station is entered / computed in different formats prescribed for the purpose and later processed at various levels using SWDES and HYMOS Software before publishing in the Water Year Book.

On the days when the discharge observations are not conducted due to holidays or any other reasons, the same have been estimated from the established Stage- Discharge curve of the site of the current year against 0800Hrs stage. Some of the observations, which do not fall within the established curve due to some errors in observation or wind effect etc., are discarded and discharges are again estimated from the established Stage-Discharge curve against 0800H stage.

## 2.2 DATA AVAILABILITY

The Central Water Commission is conducting Hydrological Observations at **27** stations spread over four states of Karnataka, Tamil Nadu, Puducherry and Andhra Pradesh and daily discharge data collected at all these sites for the year 2015-16 has been finalized and presented in this volume in the form of Water Year Book.

The Data presented in this book has been collected by the three Divisions viz., Southern Rivers Division, Coimbatore, Hydrology Division, Chennai, and Lower Krishna Division, Hyderabad.

## 2.3 EXPLANATORY NOTES

The explanatory notes described here under are designed to assist in the interpretation of hydrological parameters contained in the data presented subsequently. The notes are, therefore valid in so far as data presented in this book is concerned.

i) Water year ranges from June 1st of one calendar year to May 31st of the next calendar year and covers one complete hydrological cycle.

ii) Discharge is given in Cubic meters per second.

iii) Discharges given are daily observed discharges commencing at 08.00 hrs.

iv) Discharge indicated with asterisk (*) mark is estimated discharge
Corresponding to stage at 08.00Hrs.

v) The ZERO R.L. of a gauge is a datum level fixed for a given site, which is generally kept 1 m or 2 m lower than the lowest water level recorded in a perennial stream. In a non-perennial stream, it is kept 1 m or 2 m lower than the lowest bed level of the stream.

vi) Discharges are rounded to :
   a) nearest full integer when more than 1000
   b) nearest first decimal figure when between 100-999.
   c) nearest two decimal figure when between 10-99.
   d) nearest three decimal figure when less than 10.

vii) Maximum and Minimum discharge are taken from daily observed/estimated discharge.

viii) Run off in mm is the notional depth of water in millimeters over the catchments, equivalent to annual runoff calculated at the discharge measurement station. It is computed using the relation

$$\text{Run off (mm)} = \frac{\text{Annual runoff (M Cum)}}{\text{Catchment area (Km}^2\text{)}} \times 1000$$

XI) Peak and lowest flow correspond to the highest and lowest water levels recorded during the period of record.

X) Measuring Authority refers to the field division responsible for the Operation of the Gauging Stations.

xi) The Gauging Station Code Number is a unique seven-column alphanumeric reference number, which facilitates storage and retrieval of flow data in data bank. The first column is identifier of either an integral river basin or for convenience a region having several continuous river catchments. This is followed by a column that identifies an independent river system, which either have one or more outlets to the sea or crosses international border to enter another country. The third, fourth and fifth column spaces denote first, second and third order tributaries respectively from the mouth upstream. The sixth and seventh column spaces indicate the location of the Gauging Station in one of 225 slots earmarked on the river. The blank column spaces are filled by zero.

# 3 HYDROLOGICAL DATA

## 3.1 HISTORY SHEET

The History sheets enclosed give the description of the Hydrological Observation Stations such as Site name, State, District, River basin, Catchment Area, Latitude/Longitude Etc.,

## 3.2 DATA SHEET

In this sheet the observed/estimated daily Stage-Discharge tables are shown month-wise together with Ten-Daily, Monthly and Annual summaries. Dates of occurrences of Peak and Minimum Discharges and the corresponding water levels right from the inception of the site up to the current year are also shown in a separate sheet. Graphs showing three highest flood peaks- water Level v/s Time that occurred during the current water year are also generated and included in the Year Book.

## 3.3 CHARTS/MAPS

The year wise total Annual Run-Offs of the site from the year of inception up to the current year is reflected in the bar charts. The Histogram/Hydrograph of monthly average discharge values are depicted in two separate pie charts one for the current year and the other for all the years from year of inception up to the previous year. The Pre-monsoon and Post-monsoon Cross Sections of each Site are also inserted.

# 4 SEDIMENT DATA

There are twelve sediment Observation Stations under this basin. Sediment & Bed material data being the part of Water Year Book, is also included in this volume.

## 4.1 SOURCE OF INFORMATION

Suspended Sediment observation stations for which data for 2015-16 is presented in this volume are maintained by the Hydrology Division, Chennai, Southern Rivers Division, Coimbatore & Lower Krishna Division, Hyderabad and the names of the stations are given below:

1. Gundlakamma at Marella
2. Sagileru at Nandipalli
3. Pennar at Chennur
4. Kunderu at Alladupalli
5. Swarnamuki at Naidupeta
6. Kalingi at Sullurpet
7. Ponnaiyar at Vazhavachanur
8. Ponnaiyar at Gummanur
9. Vagai at Paramakudi
10. Suruliyar at Theni
11. Vagai at Ambasamudram
12. Tambraparani at Murappanadu

### 4.1.1 OBSERVATION TECHNIQUE

Suspended sediment observations are conducted daily along with the discharge observations

Sampling is done from boat or by wading. The Punjab type bottle sampler is used for collecting sediment samples. The sediment samples collected from flowing channels are analysed for the three grades of sediment viz. Coarse, Medium and Fine. Coarse and Medium grades are separated by sieving using standard sieves of 212 microns and 75 microns respectively and Fine grade sediment by filtration. Grade wise concentration is determined by gravimetric method.

Samples are generally collected at 0.6 depth from various verticals along the cross section of the river. These verticals are grouped into three or more composite sections for the purpose of analysis of Coarse and Medium grades of sediment. For Fine grade, the sediment samples, after removing the Coarse and Medium grade are combined into a single group and analysed. Selection of the composite sections is done in such a way so as to ensure that the discharges through each of the composite sections are nearly equal.

### 4.1.2 CLASSIFICATION OF SEDIMENT

Sediment is classified as Coarse, Medium and Fine according to the diameter as indicated below:

Coarse : Sediment above 0.20 mm diameter

Medium : Sediment between 0.20 and 0.075 mm diameter

Fine : Sediment below 0.075 mm diameter

The values given in the daily sediment data sheets are observed values. For non-observed days the values are either taken from Discharge – Sediment Curves or from neighborhood values.

## 4.2 METHOD OF PRESENTATION

The various data tables presented are generated from the validated SWDES Data base through SWDES software. Some of the features of the tables generated are briefly explained as below:

**4.2.1** When the sediment samples analyzed give non-measurable sediment, it is presumed to be of “nil” value and recorded accordingly. The Table of Annual Sediment Load along with the season-wise Sediment Loads for the period from the Dt of inception up to the Last Year is generated. A bar Chart for the same but including the Sediment load for current year is also generated separately. Separate tables showing Daily observed sediment data & Pie Charts are also generated.

# 5.0 BED MATERIAL DATA

The Bed Material Survey and Analysis data used to be published separately as Bed material analysis data book till the year 1990. Since Bed material survey and analysis work also form a part of the sediment observation work, it was decided to publish the Sediment data and the Bed material survey and analysis data in a single volume from the year 1990-91 onwards. With the revision of format of Water Year Book, the Sediment and Bed Material data is included in the Water Year Book itself from 2006-07 and onwards.

### 5.1 OBSERVATION TECHNIQUES

Bed material survey is conducted at the station gauge line three times in a Water Year i.e during Monsoon, Post monsoon and Pre-monsoon seasons. Samples at the required intervals from the dry as well as the flowing part of the river bed are collected and the river cross section on the date of survey is also taken. Sampling segments are fixed as per the standard requirements, subject to a minimum of three samples. Samples from the flowing channel are collected by means of a scoop type bed material sampler. For the dry part, the bed is cleared off the vegetation etc. by removing about 10 to 15 cm. of the top layer with a scraper and a suitable pit of about 30 to 40 cm. is dug out and representative samples are collected. These samples are reduced to the required quantity by the cone and quartering process. The samples thus reduced are put into polythene covers and packed into thick cloth bags. The cloth bags are then labeled with the relevant particulars of the river and the samples are sent to the divisional laboratory for analysis.

## 5.2 THE ANALYSIS

The bed material samples are analyzed at the divisional laboratory for the particles size distribution in two stages. First, the sample is weighed and then placed in the top 40.0 mm dia. Sieve of a set of Sieves having diameter ranging from 0.6 mm to 40 mm. Shaking the Sieve is done with the help of a mechanical Sieve Shaker. After 10 to 15 minutes of shaking, the material retained in each Sieve is collected and weighed. The total weight of various fractions must be equal to the initial weight of the sample used for analysis. The material passing through the last 0.6 mm dia. Sieve is again analyzed by means of the Puri's Siltometer. From the result of the above analysis, Summation Curves are drawn as per the standard procedure and the mean diameter of each example is worked out. From this the Silt Factor can be calculated using the formula $f = 1.76 \sqrt{m}$ where 'm' is the mean diameter of the sample in mm. The mean diameter of the sample, maximum diameter of the sample, details of the sample collected and the general data of the river are furnished in this publication.

### 5.2.1 DATA OF THE SAMPLE COLLECTED

In the data of the sample collected, the RD from which the sample is collected, RL of dry bed (in case sample is collected from dry bed), RL of bed level (in case sample is collected from flowing channel), Water level, Depth of water, Segment width, Velocity at the RD and the Segment discharge on the date of sampling are furnished.

### 5.2.2 GENERAL DATA OF RIVER

In the general data of the river the Hydraulic mean depth, Mean velocity, Surface water slope and the discharge on the date of sampling etc. are shown.

### 5.2.3 BED MATERIAL COMPOSITION

Under bed material composition, the maximum size and mean size of each sample and also the maximum size and the mean size for the entire cross section for each season are recorded. The minimum size for each sample has been assumed as 0.06 mm. since this has been observed uniformly in every sample.

***

**Annexure - I**

**STATEMENT SHOWING CWC HO & RAINFALL STATIONS IN EAST FLOWING RIVER BASINS**

| SL.No. | Name of the site | River Name | Type |
|---|---|---|---|
| 1 | Marella | Gunadalakamma | GDSQ |
| 2 | Nellore | Pennar | GDSQ+ RF |
| 3 | Nandipalli | Pennar | GDSQ+ RF |
| 4 | Chennur | Pennar | GDSQ + RF |
| 5 | Kamalapuram | Papagni | GDQ+ RF |
| 6 | Nandalur | Cheyyeru | GD |
| 7 | Alladupalli | Kunderu | GDSQ + RF |
| 8 | Tadipatri | Pennar | GDQ+ RF |
| 9 | Nagalamedike | Pennar | GDQ+ RF |
| 10 | Singavaram | Chitravathi | GDQ+ RF |
| 11 | Naidupeta | Swaranamukhi | GDSQ+ RF |
| 12 | Sulurpet | Kalingi | GDSQ+ RF |
| 13 | Chengalpet | Palar | GDQ+ RF |
| 14 | Magaral | Cheyyar | GDQ+ RF |
| 15 | Arcot | Palar | GDQ+ RF |
| 16 | Avarankuppam | Palar | GDQ+ RF |
| 17 | Kumarapalayam | Varahanadi | GDQ |
| 18 | Villupuram | Ponnaiyar | GDQ+ RF |
| 19 | Vazhavachanur | Ponnaiyar | GDSQ + RF |
| 20 | Gummanur | Ponnaiyar | GDSQ + RF |
| 21 | Kudalaiyathur | Vellar | GDQ |
| 22 | Paramakudi | Vagai | GDSQ+ RF |
| 23 | Theni | Vagai | GDSQ + RF |
| 24 | Ambasamudram | Vagai | GDSQ + RF |
| 25 | Irrukkankudi | Vaippar | GDQ+ RF |
| 26 | Murappanadu | Tambraprani | GDSQ + RF |
| 27 | A.P.Puram | Chittar | GDQ+ RF |

Index:

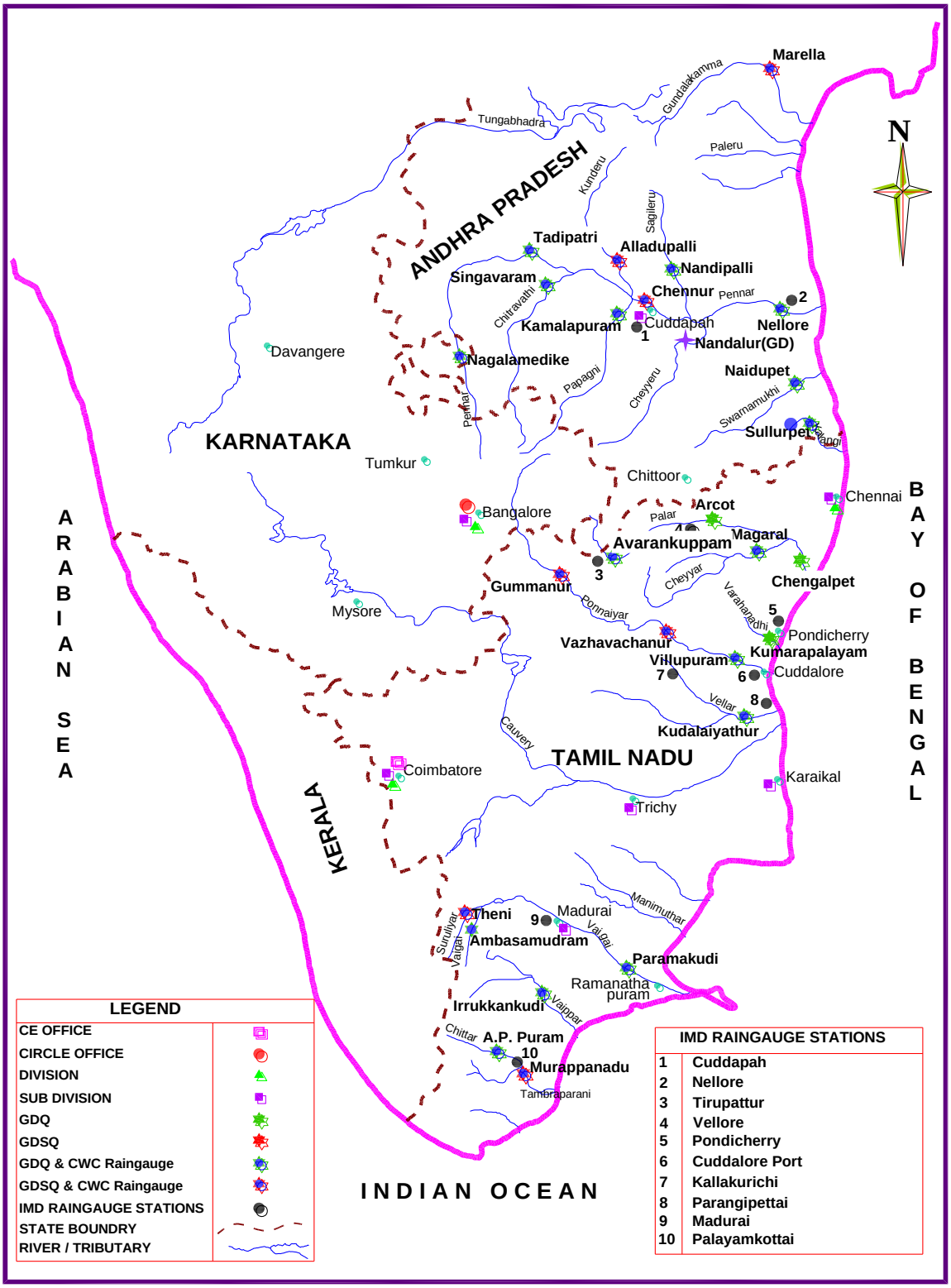
GD = Gauge & Discharge

GDQ = Gauge, Discharge & Water Quality,

GDSQ = Gauge, Discharge, Sediment & Water Quality.

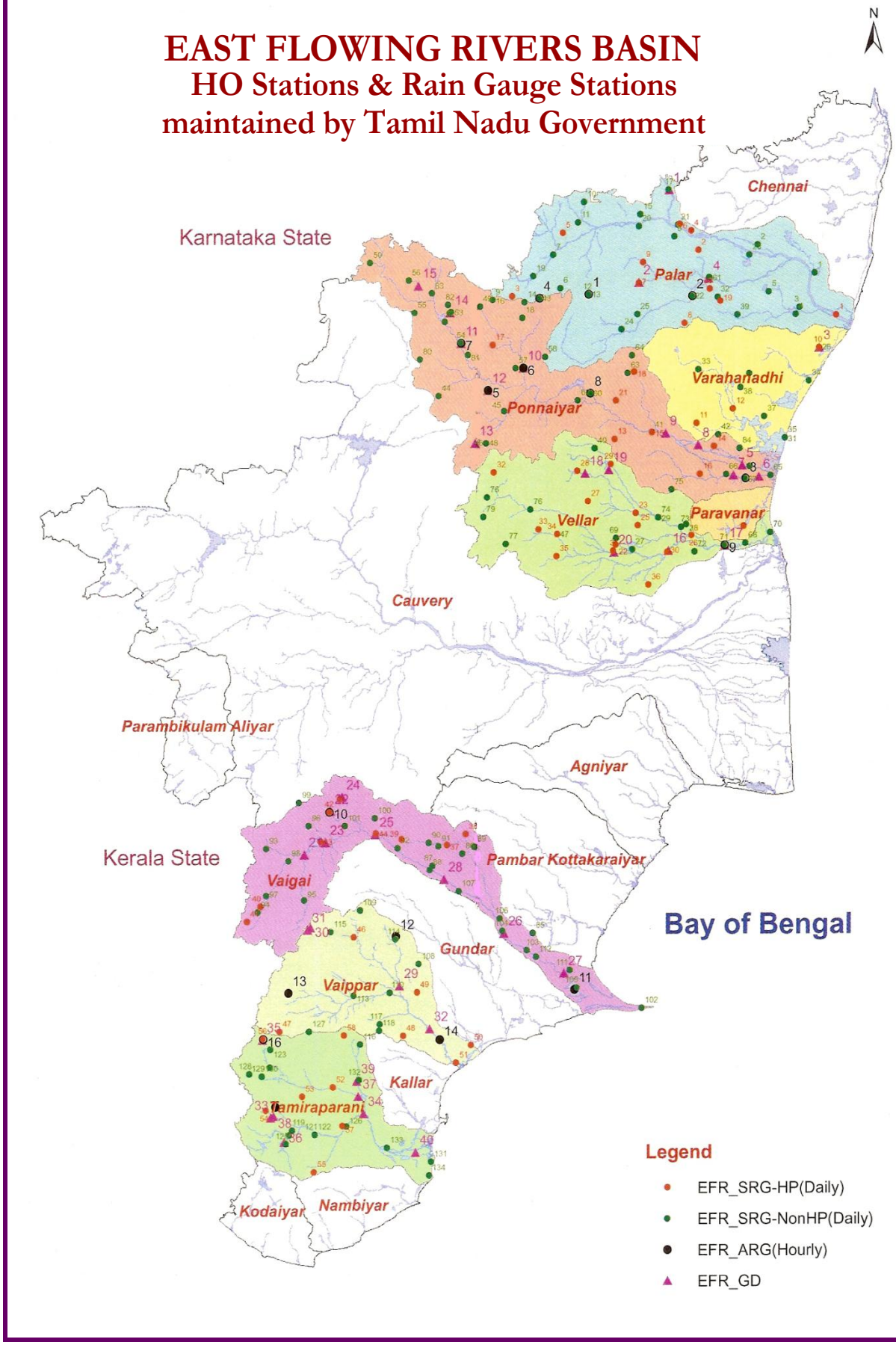
RF = Rainfall

# EAST FLOWING RIVERS BASIN
## CWC, HO Stations & IMD Raingauge Stations




| LEGEND | |
|---|---|
| CE OFFICE | |
| CIRCLE OFFICE | |
| DIVISION | |
| SUB DIVISION | |
| GDQ | |
| GDSQ | |
| GDQ & CWC Raingauge | |
| GDSQ & CWC Raingauge | |
| IMD RAINGAUGE STATIONS | |
| STATE BOUNDRY | |
| RIVER / TRIBUTARY | |

| IMD RAINGAUGE STATIONS | |
|---|---|
| 1 | Cuddapah |
| 2 | Nellore |
| 3 | Tirupattur |
| 4 | Vellore |
| 5 | Pondicherry |
| 6 | Cuddalore Port |
| 7 | Kallakurichi |
| 8 | Parangipettai |
| 9 | Madurai |
| 10 | Palayamkottai |


EAST FLOWING RIVERS BASIN
HO Stations & Rain Gauge Stations
maintained by Tamil Nadu Government
N
Chennai
Karnataka State
Palar
Varahanadhi
Ponnaiyar
Vellar
Paravanar
Cauvery
Parambikulam Aliyar
Agniyar
Kerala State
Vaigai
Pambar Kottakaraiyar
Bay of Bengal
Gundar
Vaippar
Kallar
Tamiraparani
Kodaiyar
Nambiyar
Legend
EFR_SRG-HP(Daily)
EFR_SRG-NonHP(Daily)
EFR_ARG(Hourly)
EFR_GD

# INDEX- Hydrological Observation Stations

## Maintained by Tamil Nadu Government

| Label | Station | Label | Station |
|---|---|---|---|
| 1 | Poiney Anicut | 21 | Amachiapuram |
| 2 | Aliabad Anicut | 22 | Manjalar GD |
| 3 | Cheyyar Anicut | 23 | Pickup GD |
| 4 | Thandarai Anicut | 24 | Marudhanadhi |
| 5 | Sornavur Anicut | 25 | Peranai |
| 6 | Thiruvanthipuram | 26 | Parthibanur GD |
| 7 | Thiruvathigai Anicut | 27 | Ramnad GD Mudhalur |
| 8 | Ellis Anicut | 28 | Virahanur GD |
| 9 | Thirukovilur Anicut | 29 | Irukkankudi |
| 10 | Kollanur | 30 | Kovilar @ Pilavukkal |
| 11 | Nedungal Anicut | 31 | Periyar @ Pilavukkal Reservoir |
| 12 | Thoddampatti | 32 | Athangarai Anicut |
| 13 | Vanniar Reservoir GD | 33 | Gadana Dam |
| 14 | Krishnagiri Reservoir GD | 34 | Gangaikondan (seevalaperi anicut) |
| 15 | Sulagiri Chinnar | 35 | Karuppanadhi Dam |
| 16 | Pilandurai | 36 | Manimuthar GD |
| 17 | Sethiathope Anicut | 37 | Pillayarkulam Anicut |
| 18 | Gomukhi Reservoir | 38 | Ramanadhi reservoir |
| 19 | Manimukthanadhi | 39 | Kankeyan anicut (Uppodai) |
| 20 | Tholuthur Reservoir | 40 | Vazhavallan |

# INDEX - RAIN GAUGE STATIONS

## Maintained by Tamil Nadu Government

**SRG_HP**

| Label | Station |
|---|---|
| 1 | Panankattuchery |
| 2 | Kalavai |
| 3 | Natrampalli |
| 4 | Palar Anicut |
| 5 | Peranampet |
| 6 | Ranipet |
| 7 | Aliabad Anicut |
| 8 | Chetpet |
| 9 | Kannamangalam |
| 10 | Cheyyur |
| 11 | Velathi |
| 12 | Vidur Dam |
| 13 | Ariyalur |
| 14 | Ellis Anicut |
| 15 | Thirukovilur Anicut |
| 16 | Thirunavalur |
| 17 | Perugondapuram |
| 18 | Kilnatchipattu |
| 19 | Kovilur Anicut |
| 20 | Vakkadai |
| 21 | Vanapuram |
| 22 | Eluthur |
| 23 | Kattunayilur |
| 24 | Kothuvacheri |
| 25 | Veppur |
| 26 | Virudhachalam Anicut |
| 27 | Chinnasalem |
| 28 | Gomuki Dam |
| 29 | Manimuktha Reservoir |
| 30 | Pilandurai Anicut |
| 31 | Tholuthur |
| 32 | Anaimaduvu Reservoir |
| 33 | Gangavalli |
| 34 | Veeraganur |
| 35 | Arumbavur |
| 36 | Sendurai |
| 37 | Kallanthiri |
| 38 | Pulipatti |
| 39 | T. Andipatti |
| 40 | Gandamanickanur |
| 41 | Gudalore |
| 42 | Manjalar Dam |
| 43 | Vaigai Dam |
| 44 | Anaipatti IB |
| 45 | Marudanadhi Dam |
| 46 | Sundarapandiyapuram |
| 47 | Puliyankudi |
| 48 | Ettayapuram |
| 49 | Karisalkulam |
| 50 | Surangudi |
| 51 | Vaippar |
| 52 | Alagiapandiapuram |
| 53 | Alangulam |
| 54 | Gadana dam |
| 55 | Kalakadu |
| 56 | Karuppanadhi dam |
| 57 | Tirunelveli |
| 58 | Kazhugumalai |

**SRG_NonHP**

| Label | Station |
|---|---|
| 1 | Chengalpattu |
| 2 | Kancheepuram |
| 3 | Karunguzhi |
| 4 | Madurantakam |
| 5 | Uthiramerur |
| 6 | Alangayam |
| 7 | Ambur |
| 8 | Arcot |
| 9 | Goddar Dam |
| 10 | Gollapalli |
| 11 | Gudiyatham |
| 12 | Jamuna marathur |
| 13 | Javadhu Hills |
| 14 | Jolarpettai |
| 15 | Katpadi |
| 16 | Kottar Reservoir |
| 17 | Ponnai Anaicut |
| 18 | Thirupathur |
| 19 | Vaniyambadi |
| 20 | Vellore |
| 21 | Walajapet |
| 22 | Cheyyar Anicut |
| 23 | Dusi Ayyangarkulam |
| 24 | Elathur Anicut |
| 25 | Polur |
| 26 | Cheyyur |
| 27 | Keelacheruvai |
| 28 | Kuppanatham |
| 29 | Memathur |
| 30 | Palur |
| 31 | Pondichery |
| 32 | Erayanur |
| 33 | Gingee |
| 34 | Marakkanam |
| 35 | Pondichery |
| 36 | Thindivanam |
| 37 | Vanur |
| 38 | Kiladayalam |
| 39 | Vandavasi |
| 40 | Sankarapuram |
| 41 | Thirukoilur |
| 42 | Villupuram |
| 43 | Yelagiri Hills |
| 44 | Dharmapuri |
| 45 | Harur |
| 46 | Noganur |
| 47 | Vaniar Reservoir |
| 48 | Denkanikottai |
| 49 | Hogenakkal |
| 50 | Hosur |
| 51 | Krishnagiri Reservoir |
| 52 | Marandahalli |
| 53 | Nedungal |
| 54 | Royakottai |
| 55 | Soolagiri |
| 56 | Thalli |
| 57 | Uthangarai |
| 58 | Chengam |

| Label | Station |
|---|---|
| 59 | Pickup Anaicut |
| 60 | Sathanur Anaicut |
| 61 | Thandaraj Anaicut |
| 62 | Thanipadi |
| 63 | Thiruvannamalai |
| 64 | Thurinjapuram |
| 65 | Cuddalore |
| 66 | Panruti |
| 67 | Vannamadevi |
| 68 | Bhuvanagiri |
| 69 | Lekkur |
| 70 | Parangipettai |
| 71 | Sethiathope |
| 72 | Srimushnam |
| 73 | Virudhachalam(Rev) |
| 74 | Memathur |
| 75 | Ulundurpet |
| 76 | Attur |
| 77 | Thammampatti |
| 78 | Vazhapadi |
| 79 | Mangalapuram |
| 80 | Anchetty |
| 81 | Barur |
| 82 | Krishnagiri |
| 83 | Melumalai |
| 84 | Nannilam |
| 85 | Eliyankudi |
| 86 | Chittampatti |
| 87 | Madurai |
| 88 | Madurai south |
| 89 | Melur |
| 90 | Mettupatti |
| 91 | Periyapatti |
| 92 | Sholavandan |
| 93 | Bodinayakkanur |
| 94 | Cumbum |
| 95 | Mayiladumparai |
| 96 | Periyakulam |
| 97 | Uthamapalayam |
| 98 | Veerapandi |
| 99 | Kodaikanal Boat Club |
| 100 | Nilakottai |
| 101 | Viralipatti |
| 102 | Mandapam |
| 103 | Paramakudi |
| 104 | Parthibanur |
| 105 | Ramanadhapuram Revenue |
| 106 | Manamadurai |
| 107 | Thiruppuvanam |
| 108 | Savaspuram |
| 109 | Peraiyur |
| 110 | Sattur |
| 111 | Sivakasi |
| 112 | Srivilliputhur |
| 113 | Vembakottai |
| 114 | Virudhunagar Revenue |
| 115 | Watrap |
| 116 | Kalampatti |

| Label | Station |
|---|---|
| 117 | Kovilpatti Agr |
| 118 | Kovilpatti Revenue |
| 119 | Ambasamudram |
| 120 | Aykudi |
| 121 | Cheranmadevi PWD |
| 122 | Kadayam Revenue |
| 123 | Kadayanallur |
| 124 | Kannadiyan Anaicut |
| 125 | Manimuthar SRG |
| 126 | Palayamkottai |
| 127 | Sankarankoil |
| 128 | Shencottai |
| 129 | Tenkasi PWD |
| 130 | Tenkasi Revenue |
| 131 | Kayalpattinam |
| 132 | Kayathar |
| 133 | Srivaigundam |
| 134 | Thiruchendur |

**ARG_HP**

| Label | Station_Na |
|---|---|
| 1 | Javadhu Hills |
| 2 | Cheyyar Anicut |
| 3 | Vanamadevi |
| 4 | Yelagiri Hills |
| 5 | Harur |
| 6 | Kondampatti |
| 7 | Nedungal |
| 8 | Sathanur Pick Up |
| 9 | Sethiathope |
| 10 | Manjalar Dam |
| 11 | Ramanadhapuram ARG |
| 12 | Virudhunagar |
| 13 | Sivagiri |
| 14 | Vilathikulam |
| 15 | Kadayam |
| 16 | Karuppanadhi Dam |

**Plate-III**

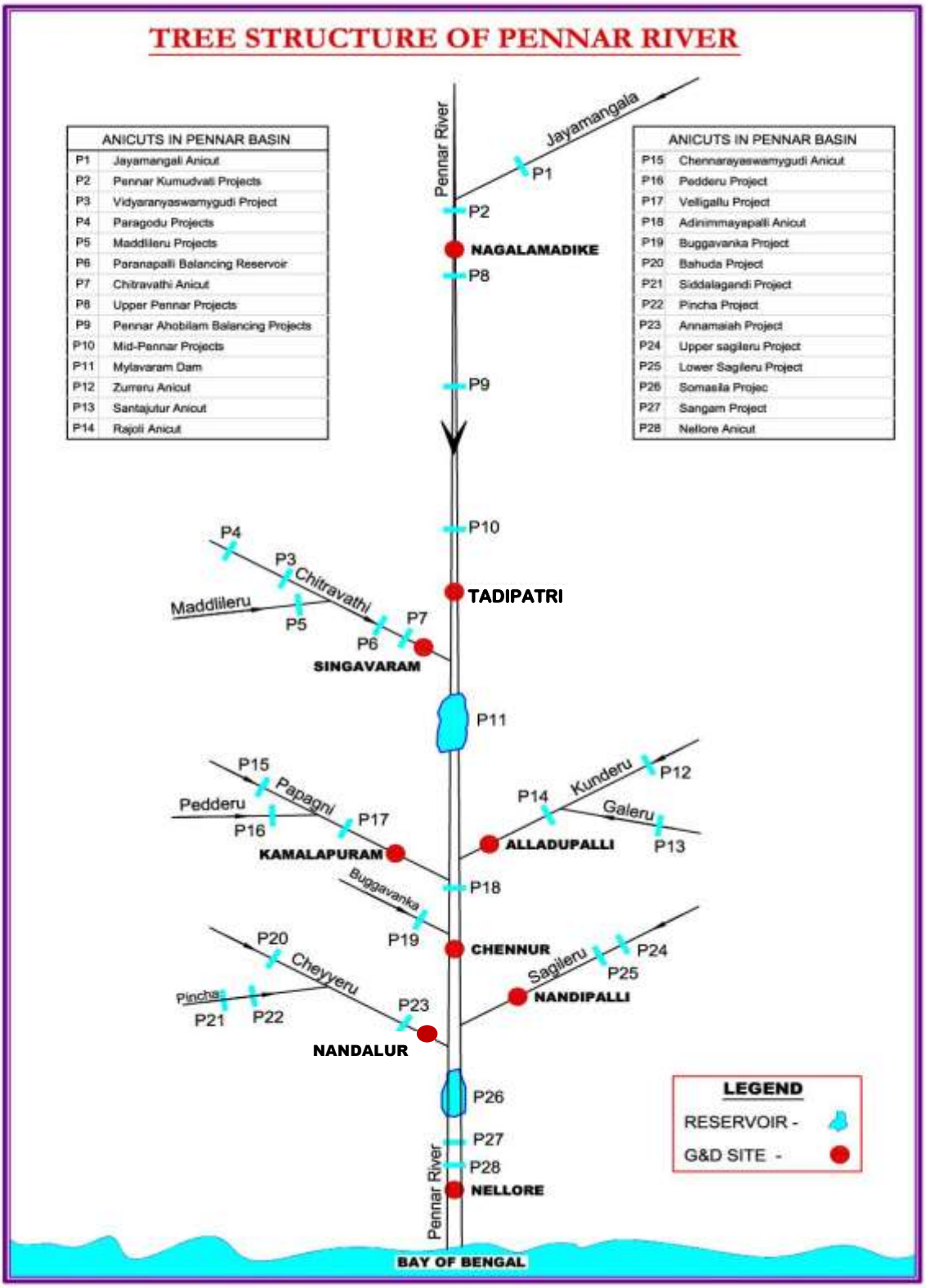

TREE STRUCTURE OF PENNAR RIVER
ANICUTS IN PENNAR BASIN
P1 Jayamangali Anicut
P2 Pennar Kumudvati Projects
P3 Vidyaranyaswamygudi Project
P4 Paragodu Projects
P5 Maddileru Projects
P6 Paranapalli Balancing Reservoir
P7 Chitravathi Anicut
P8 Upper Pennar Projects
P9 Pennar Ahobilam Balancing Projects
P10 Mid-Pennar Projects
P11 Mylavaram Dam
P12 Zumeru Anicut
P13 Santajutur Anicut
P14 Rajoli Anicut
ANICUTS IN PENNAR BASIN
P15 Chennarayaswamygudi Anicut
P16 Pedderu Project
P17 Veligallu Project
P18 Adinimmayapalli Anicut
P19 Buggavanka Project
P20 Bahuda Project
P21 Siddalagandi Project
P22 Pincha Project
P23 Annamaiah Project
P24 Upper sagileru Project
P25 Lower Sagileru Project
P26 Somasila Projec
P27 Sangam Project
P28 Nellore Anicut
Pennar River
Jayamangala
P1
P2
NAGALAMADIKE
P8
P9
P10
TADIPATRI
P4
P3
Chitravathi
Maddileru
P5
P7
P6
SINGAVARAM
P11
P15
Papagni
Pedderu
P16
P17
KAMALAPURAM
P14
Kunderu
P12
Galeru
P13
ALLADUPALLI
P18
Buggavanka
P19
CHENNUR
P20
Cheyyeru
Pincha
P21
P22
P23
NANDALUR
Sagileru
P24
P25
NANDIPALLI
P26
P27
P28
NELLORE
Pennar River
BAY OF BENGAL
LEGEND
RESERVOIR -
G&D SITE -

**Plate-IV**

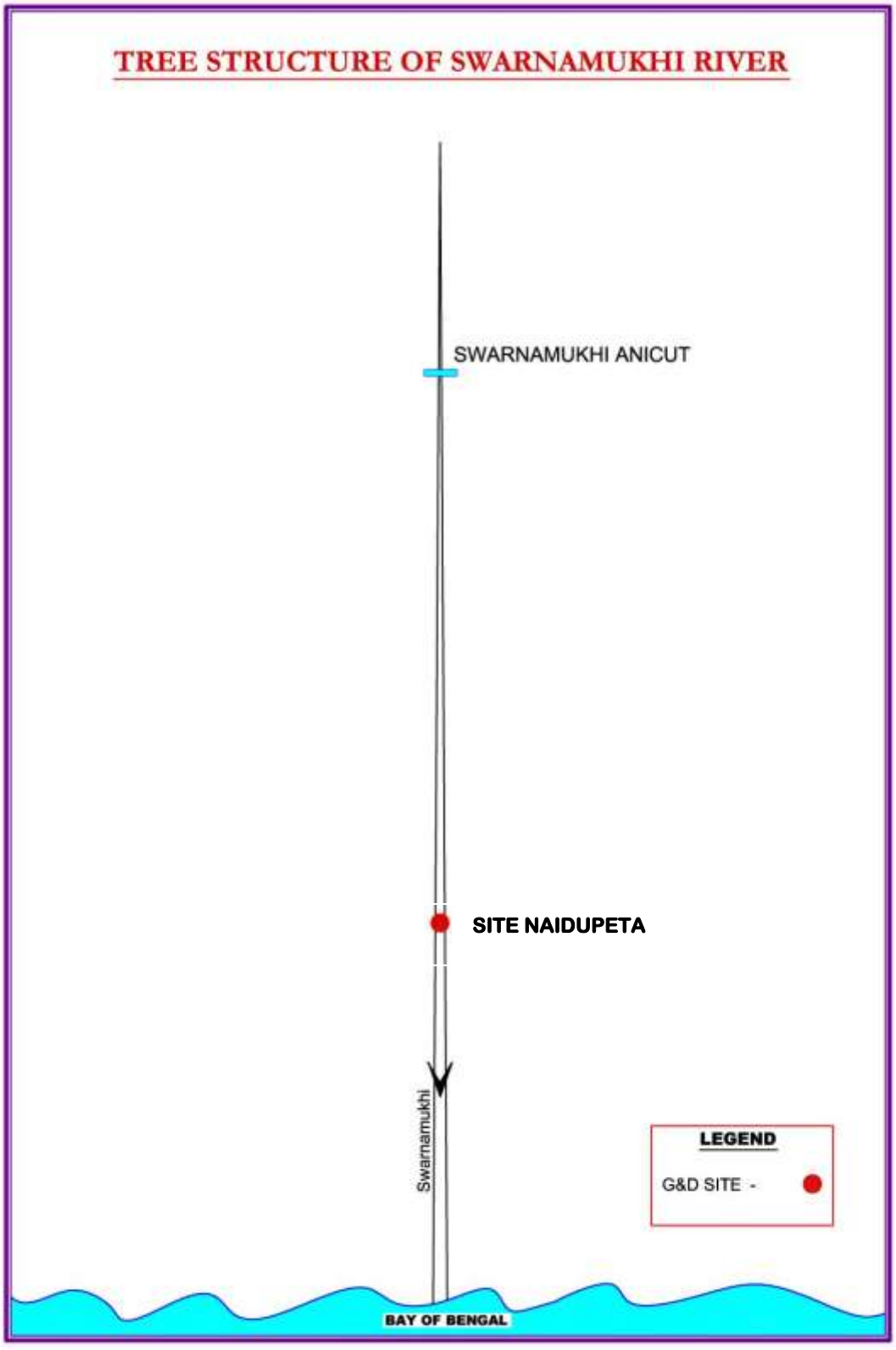
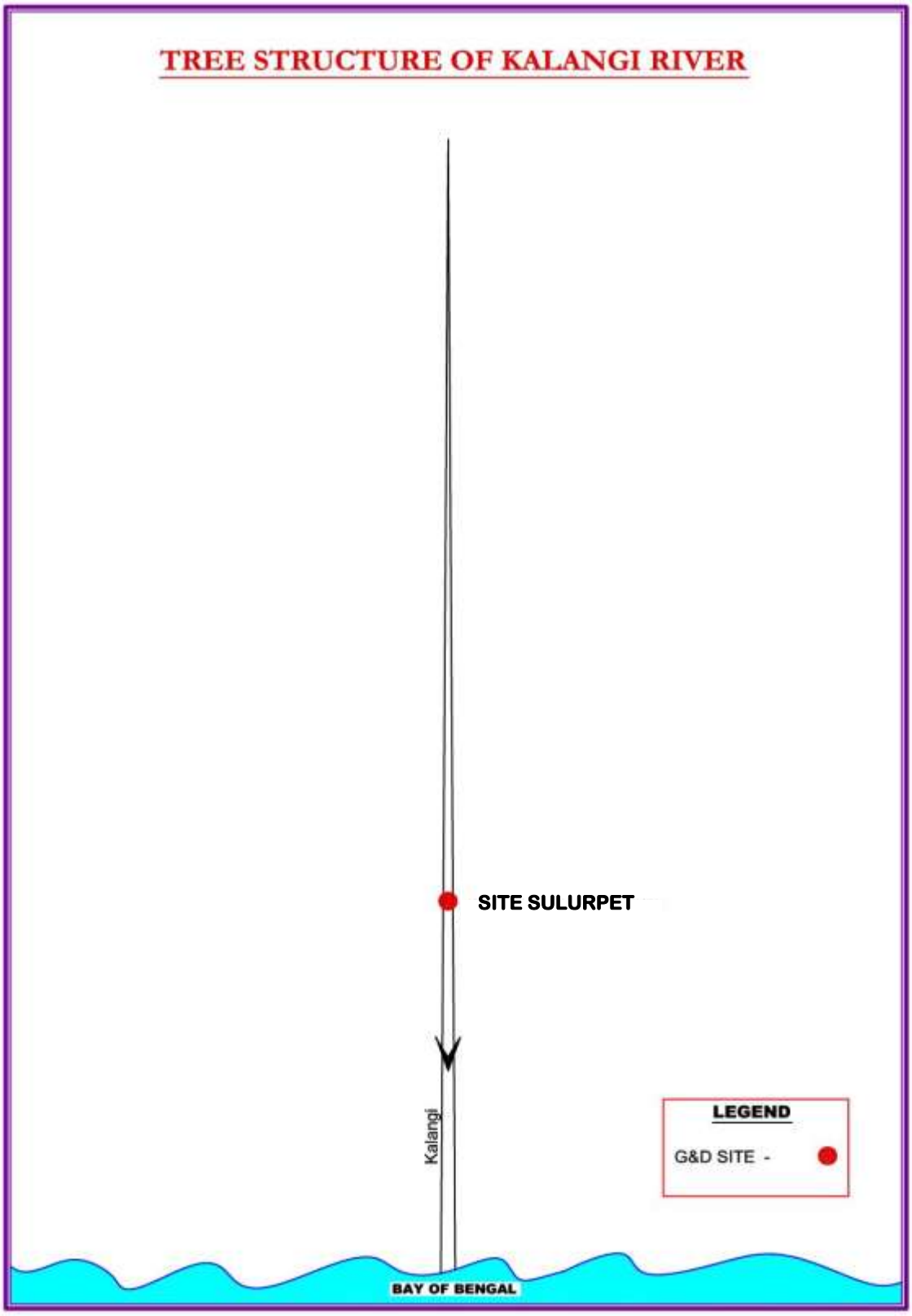

TREE STRUCTURE OF SWARNAMUKHI RIVER
SWARNAMUKHI ANICUT
SITE NAIDUPETA
Swarnamukhi
LEGEND
G&D SITE -
BAY OF BENGAL

**Plate-V**


TREE STRUCTURE OF KALANGI RIVER
SITE SULURPET
Kalangi
LEGEND
G&D SITE -
BAY OF BENGAL

## Plate-VI

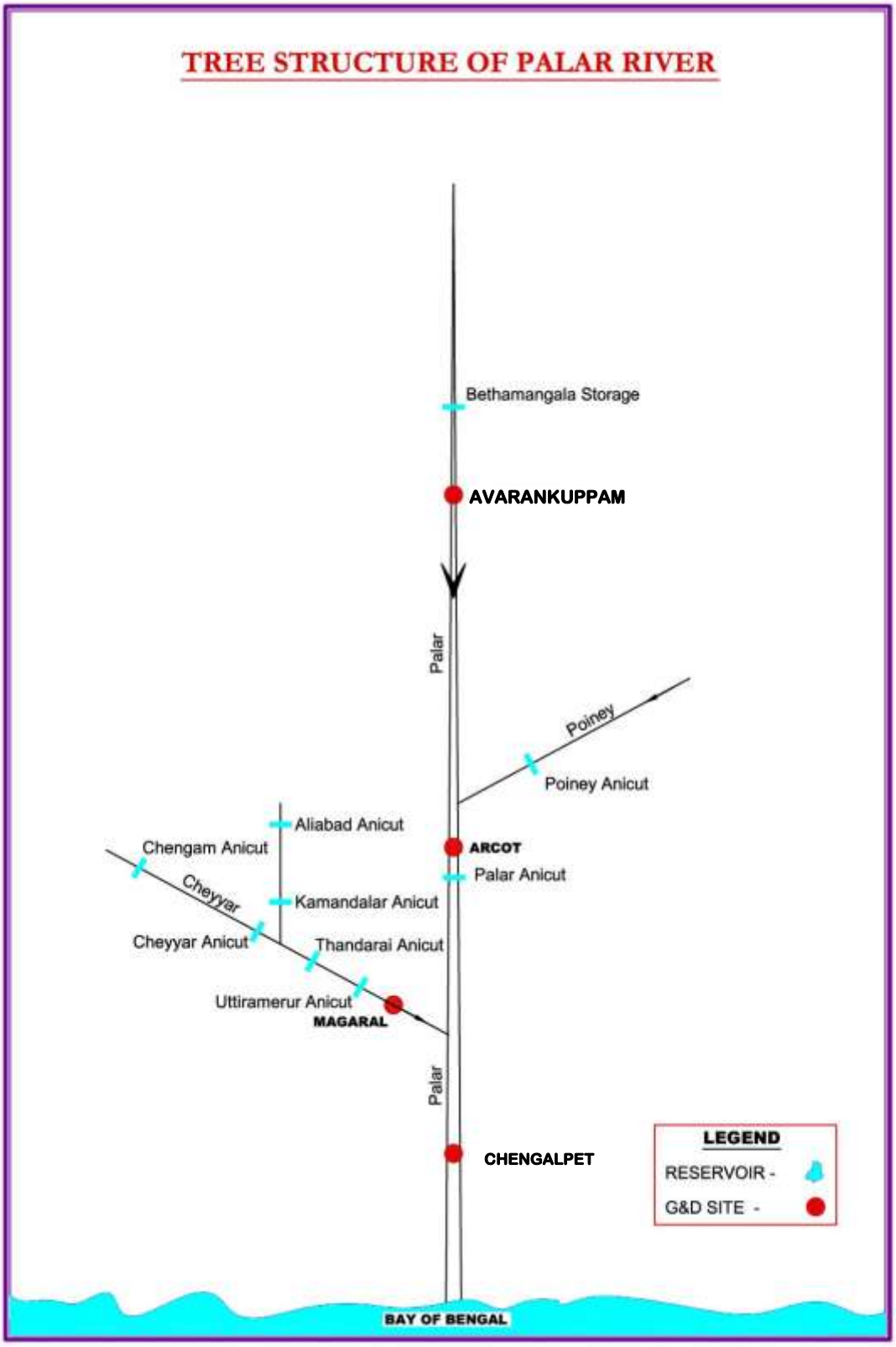

TREE STRUCTURE OF PALAR RIVER
Bethamangala Storage
AVARANKUPPAM
Palar
Poiney
Poiney Anicut
Aliabad Anicut
Chengam Anicut
ARCOT
Palar Anicut
Cheyyar
Kamandalar Anicut
Cheyyar Anicut
Thandarai Anicut
Uttiramerur Anicut
MAGARAL
Palar
CHENGALPET
LEGEND
RESERVOIR -
G&D SITE -
BAY OF BENGAL

**Plate-VII**

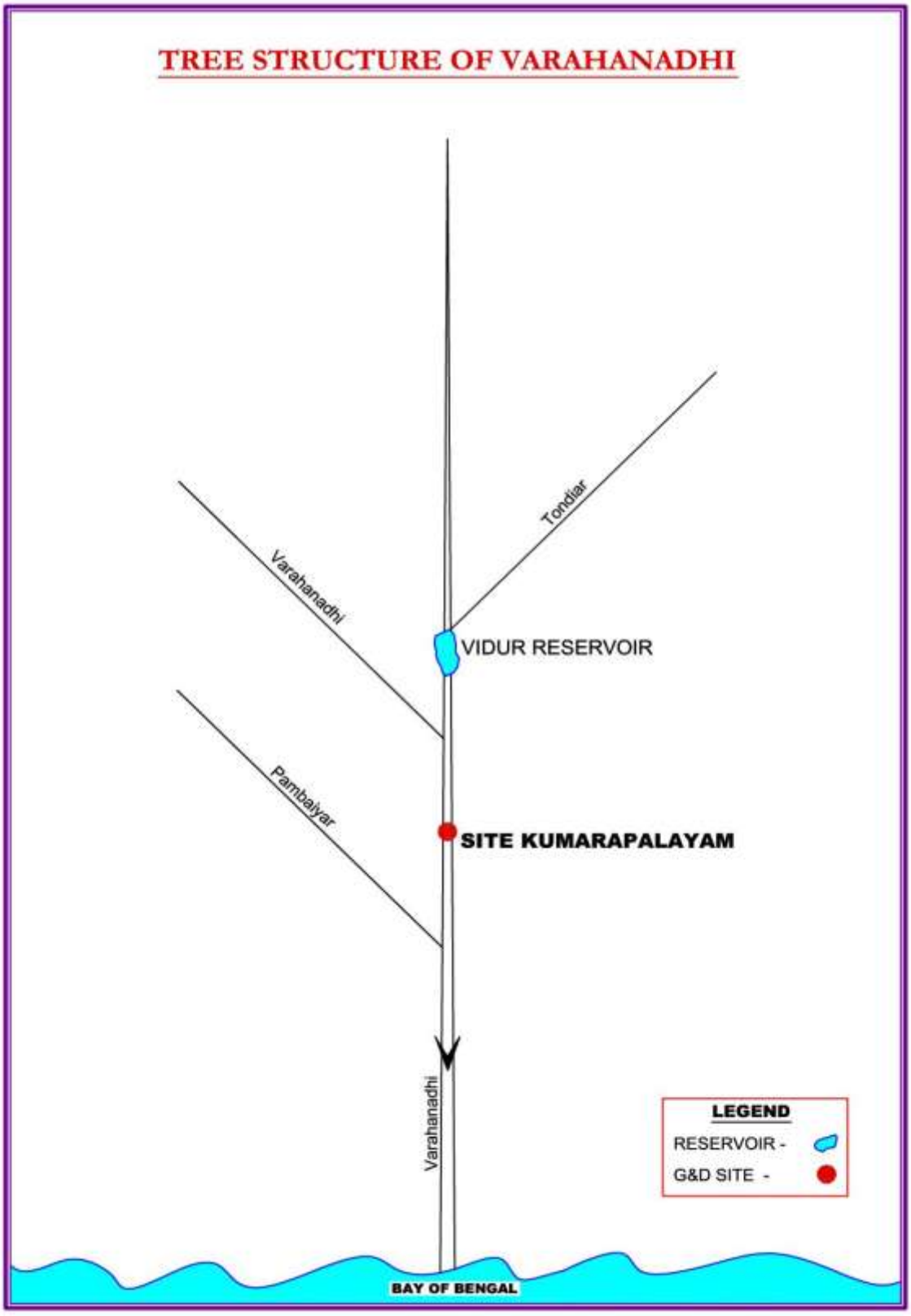

TREE STRUCTURE OF VARAHANADHI
Tondiar
Varahanadhi
VIDUR RESERVOIR
Pambaiyar
SITE KUMARAPALAYAM
Varahanadhi
LEGEND
RESERVOIR -
G&D SITE -
BAY OF BENGAL

**Plate-VIII**

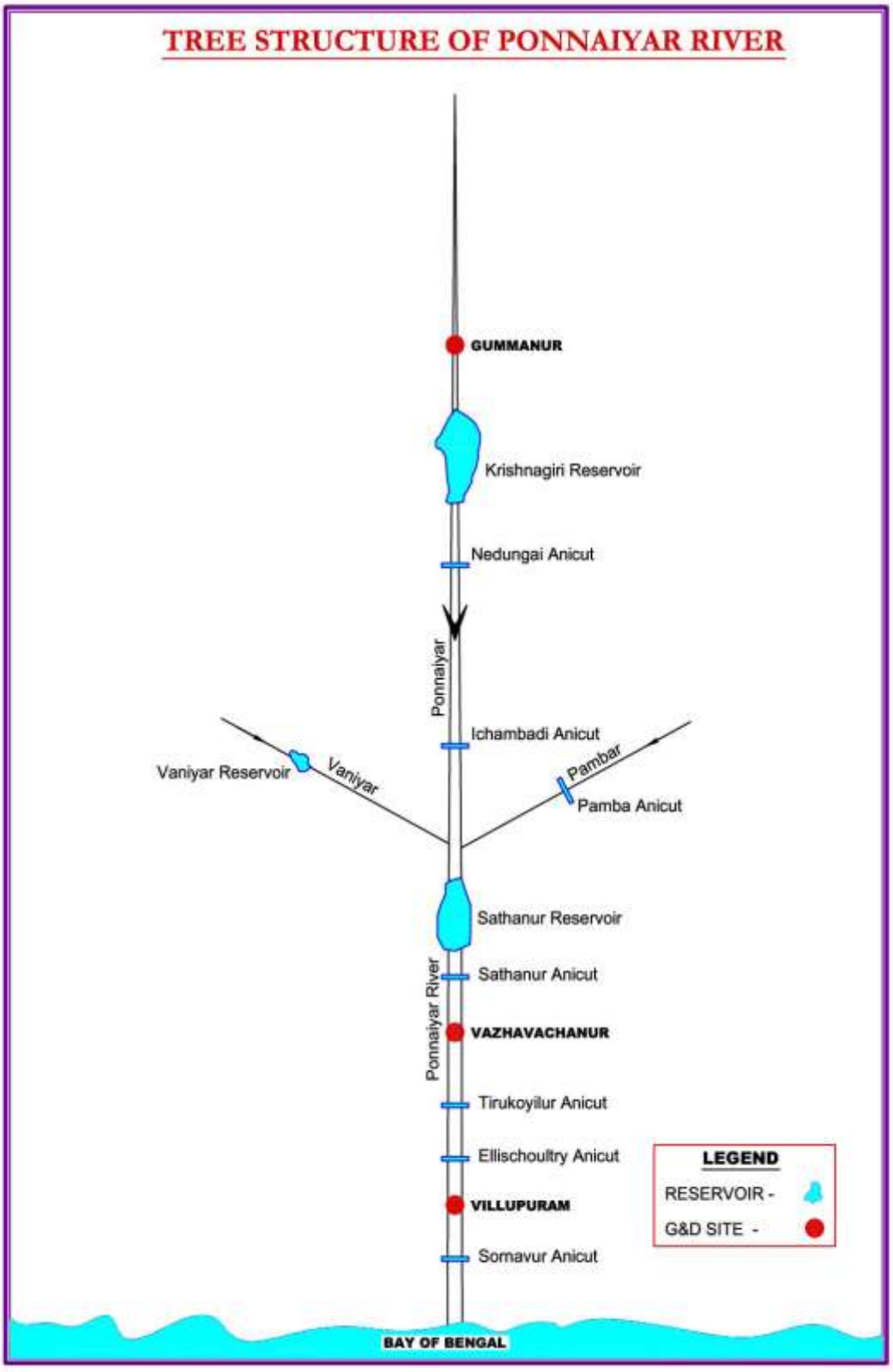

TREE STRUCTURE OF PONNAIYAR RIVER
GUMMANUR
Krishnagiri Reservoir
Nedungai Anicut
Ponnaiyar
Ichambadi Anicut
Vaniyar Reservoir
Vaniyar
Pambar
Pamba Anicut
Sathanur Reservoir
Sathanur Anicut
Ponnaiyar River
VAZHAVACHANUR
Tirukoyilur Anicut
Ellischoultry Anicut
VILLUPURAM
Somavur Anicut
BAY OF BENGAL
LEGEND
RESERVOIR -
G&D SITE -

**Plate-IX**

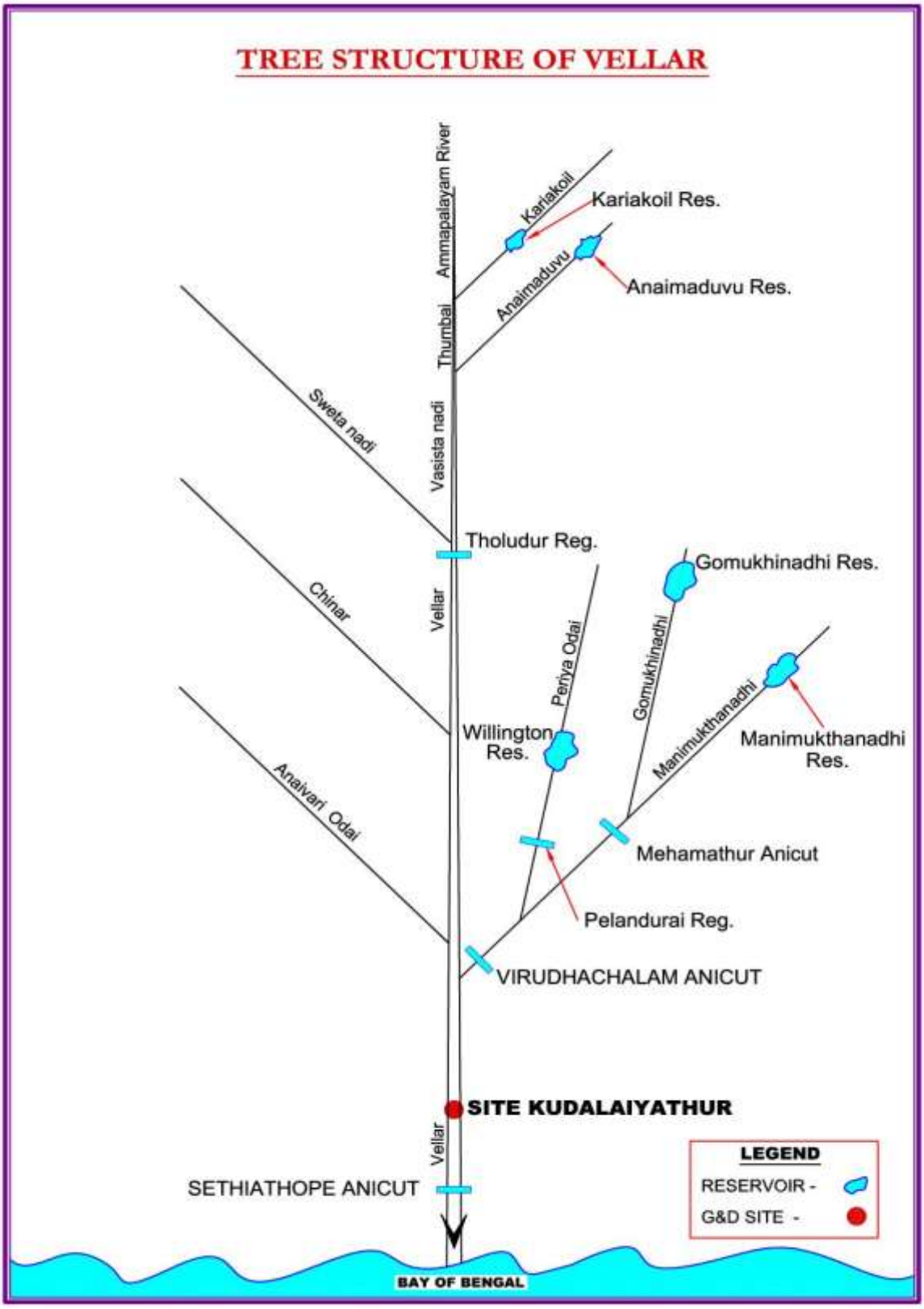

TREE STRUCTURE OF VELLAR
Ammapalayam River
Kariakoil
Kariakoil Res.
Anaimaduvu
Anaimaduvu Res.
Thumbai
Vasista nadi
Swetta nadi
Tholudur Reg.
Gomukhinadhi Res.
Chinar
Vellar
Periya Odai
Gomukhinadhi
Manimukthanadhi
Manimukthanadhi Res.
Willington Res.
Anaivari Odai
Mehamathur Anicut
Pelandurai Reg.
VIRUDHACHALAM ANICUT
SITE KUDALAIYATHUR
Vellar
SETHIATHOPE ANICUT
LEGEND
RESERVOIR -
G&D SITE -
BAY OF BENGAL

**Plate-X**

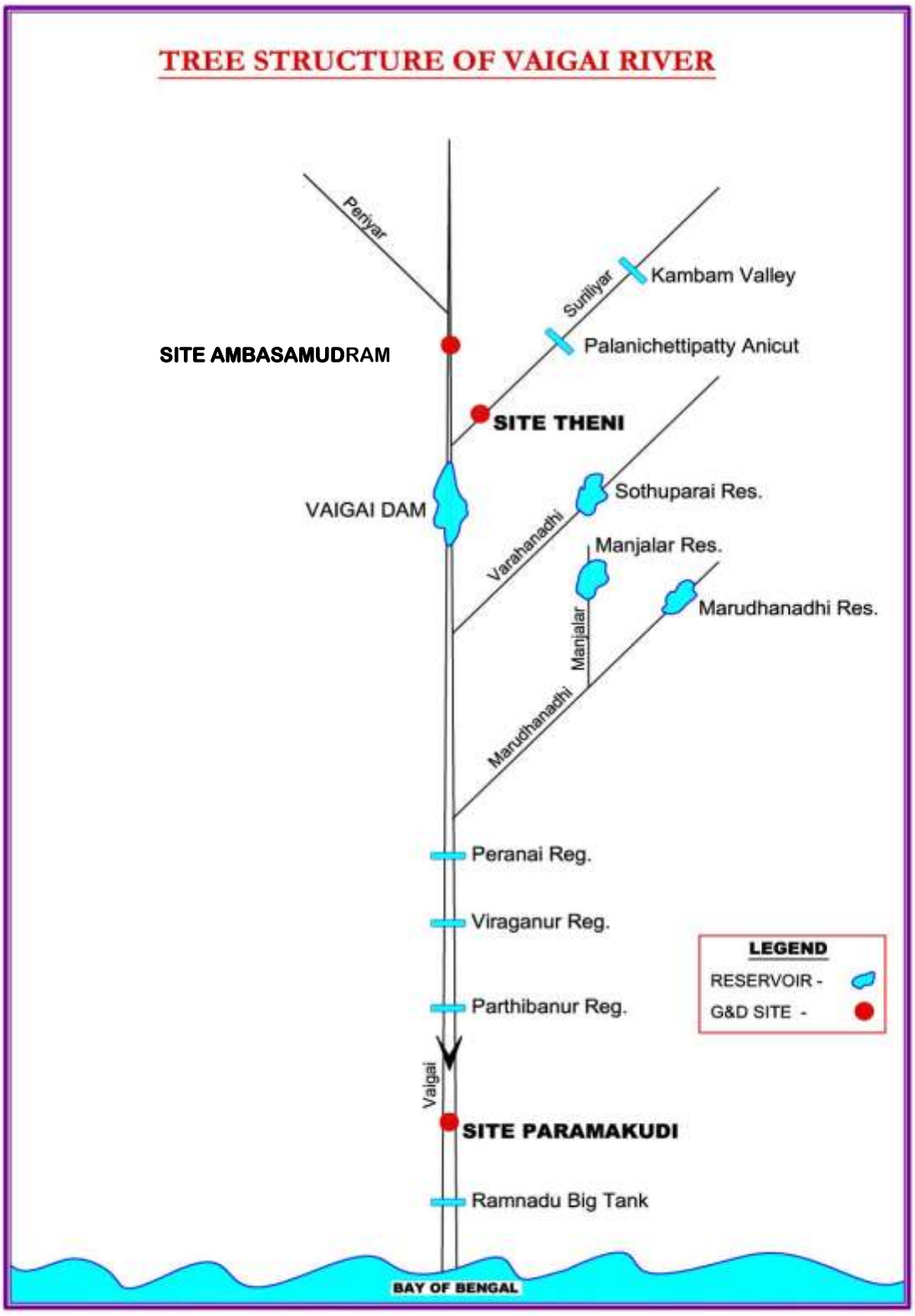

TREE STRUCTURE OF VAIGAI RIVER
Periyar
Suriliyar
Kambam Valley
Palanichettipatty Anicut
SITE AMBASAMUDRAM
SITE THENI
VAIGAI DAM
Sothuparai Res.
Varahanadhi
Manjalar Res.
Marudhanadhi Res.
Manjalar
Marudhanadhi
Peranai Reg.
Viraganur Reg.
Parthibanur Reg.
LEGEND
RESERVOIR -
G&D SITE -
Vaigai
SITE PARAMAKUDI
Ramnadu Big Tank
BAY OF BENGAL

**Plate-XI**

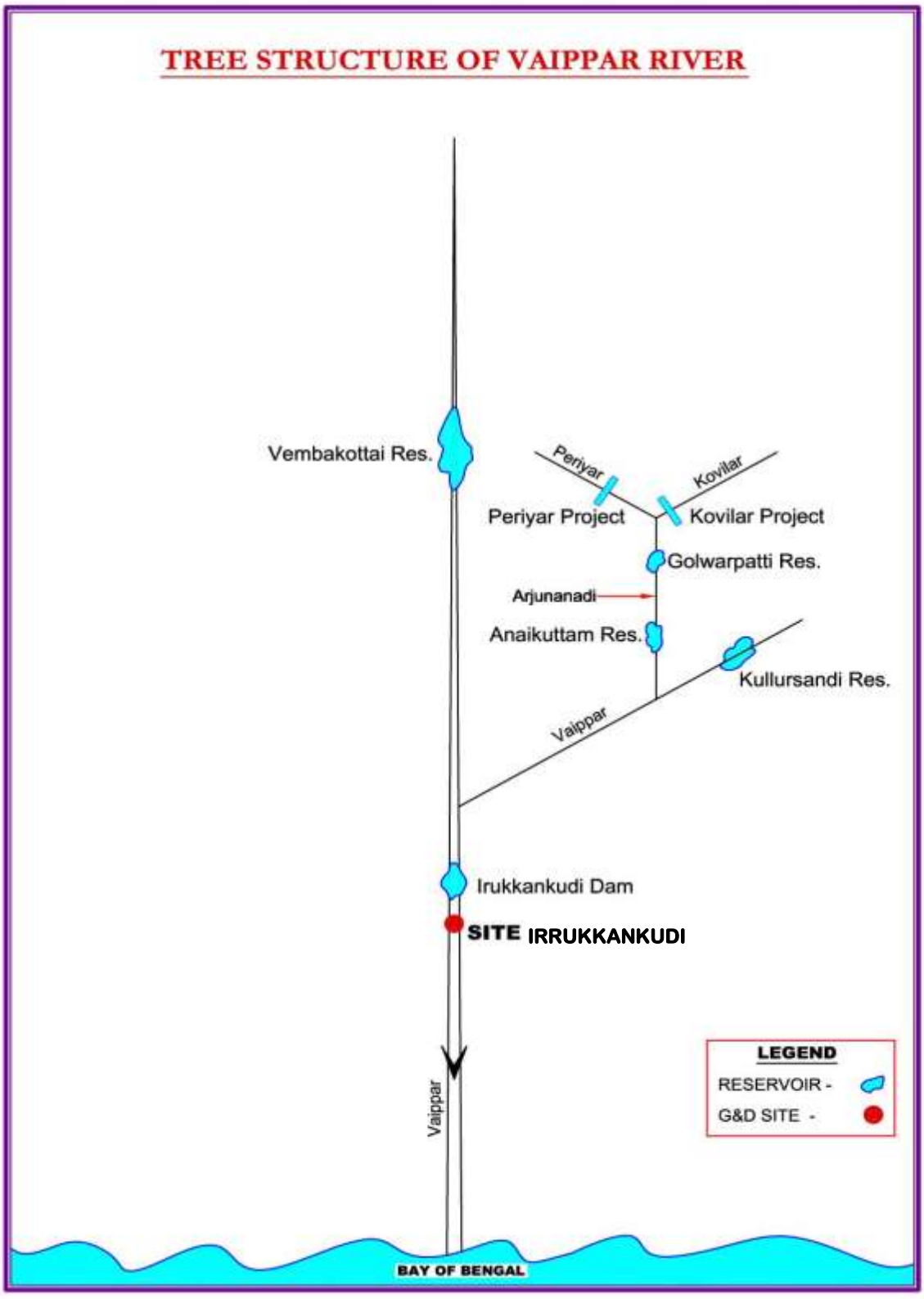
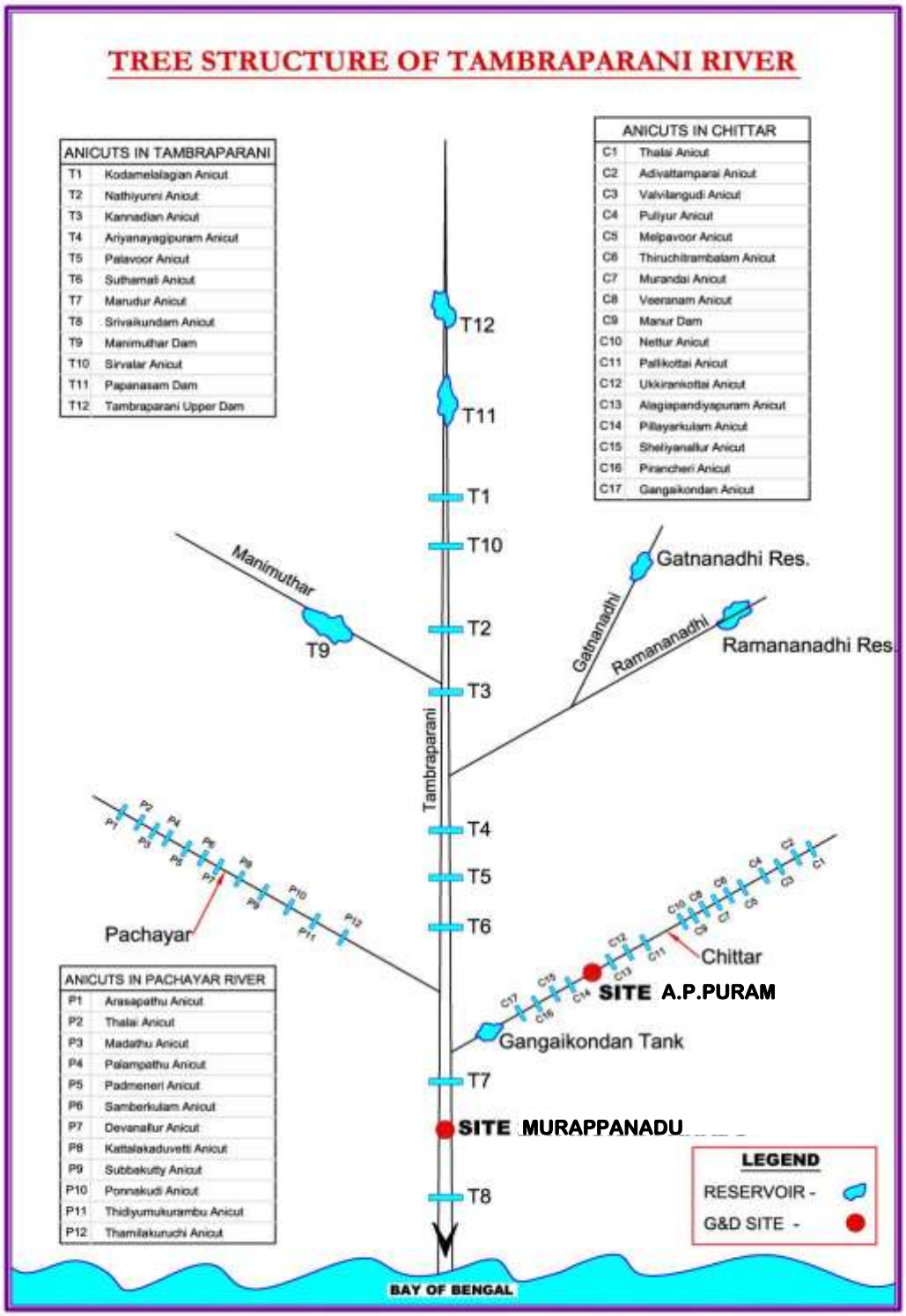
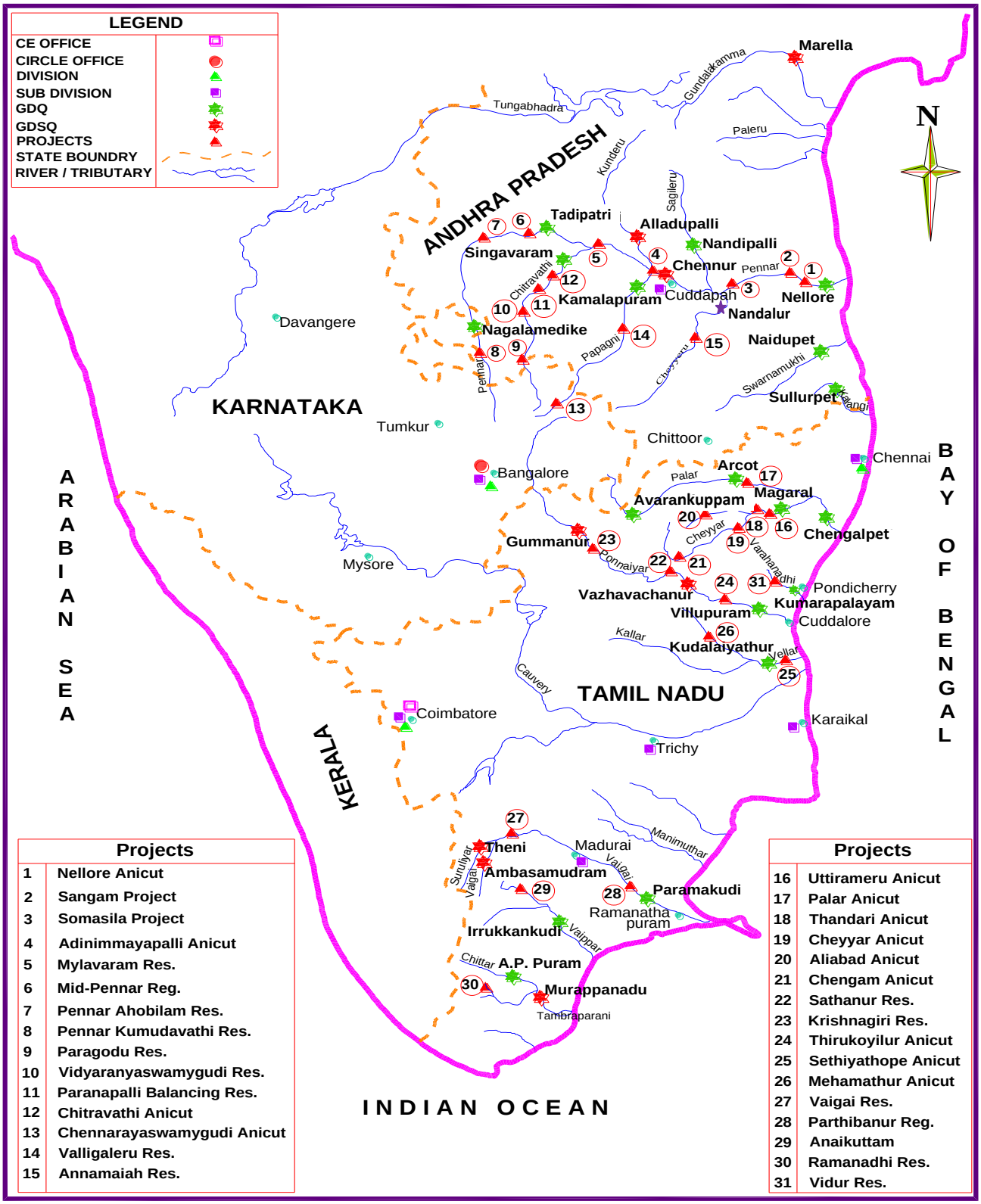

TREE STRUCTURE OF VAIPPAR RIVER
Vembakottai Res.
Periyar
Kovilar
Periyar Project
Kovilar Project
Golwarpatti Res.
Arjunanadi
Anaikuttam Res.
Kullursandi Res.
Vaippar
Irukkankudi Dam
SITE IRRUKKANKUDI
LEGEND
RESERVOIR -
G&D SITE -
Vaippar
BAY OF BENGAL

**Plate-XII**


TREE STRUCTURE OF TAMBRAPARANI RIVER
ANICUTS IN TAMBRAPARANI
T1 Kodamelalagian Anicut
T2 Nathiyunni Anicut
T3 Kannadian Anicut
T4 Ariyanayagipuram Anicut
T5 Palavoor Anicut
T6 Suthamali Anicut
T7 Manudur Anicut
T8 Srivaikundam Anicut
T9 Manimuthar Dam
T10 Sirvalar Anicut
T11 Papanasam Dam
T12 Tambraparani Upper Dam
ANICUTS IN CHITTAR
C1 Thalai Anicut
C2 Adivattamparai Anicut
C3 Valvilangudi Anicut
C4 Puliyur Anicut
C5 Melpavoor Anicut
C6 Thiruchitrambalam Anicut
C7 Murandai Anicut
C8 Veeranam Anicut
C9 Manur Dam
C10 Nettur Anicut
C11 Pallikottai Anicut
C12 Ukkiranikottai Anicut
C13 Alagiapandiyapuram Anicut
C14 Pillayarkulam Anicut
C15 Sheliyanallur Anicut
C16 Pirancheri Anicut
C17 Gangaikondan Anicut
ANICUTS IN PACHAYAR RIVER
P1 Arasapathu Anicut
P2 Thalai Anicut
P3 Madathu Anicut
P4 Palampathu Anicut
P5 Padmeneri Anicut
P6 Samberkulam Anicut
P7 Devanallur Anicut
P8 Kattalakaduvetti Anicut
P9 Subbakutty Anicut
P10 Ponnakudi Anicut
P11 Thidiyumukurambu Anicut
P12 Thamilakunudhi Anicut
T12
T11
T1
T10
T2
T3
T4
T5
T6
T7
T8
Manimuthar
T9
Gatnanadhi Res.
Gatnanadhi
Ramananadhi
Ramananadhi Res.
Tambraparani
Pachayar
Chittar
SITE A.P.PURAM
Gangaikondan Tank
SITE MURAPPANADU
LEGEND
RESERVOIR -
G&D SITE -
BAY OF BENGAL

# EAST FLOWING RIVERS BASIN
## Map Showing the CWC, HO Stations & Projects




| Projects | |
|---|---|
| 1 | Nellore Anicut |
| 2 | Sangam Project |
| 3 | Somasila Project |
| 4 | Adinimmayapalli Anicut |
| 5 | Mylavaram Res. |
| 6 | Mid-Pennar Reg. |
| 7 | Pennar Ahobilam Res. |
| 8 | Pennar Kumudavathi Res. |
| 9 | Paragodu Res. |
| 10 | Vidyaranyaswamygudi Res. |
| 11 | Paranapalli Balancing Res. |
| 12 | Chitravathi Anicut |
| 13 | Chennarayaswamygudi Anicut |
| 14 | Valligaleru Res. |
| 15 | Annamaiah Res. |

| Projects | |
|---|---|
| 16 | Uttirameru Anicut |
| 17 | Palar Anicut |
| 18 | Thandari Anicut |
| 19 | Cheyyar Anicut |
| 20 | Aliabad Anicut |
| 21 | Chengam Anicut |
| 22 | Sathanur Res. |
| 23 | Krishnagiri Res. |
| 24 | Thirukoyilur Anicut |
| 25 | Sethiyathope Anicut |
| 26 | Mehamathur Anicut |
| 27 | Vaigai Res. |
| 28 | Parthibanur Reg. |
| 29 | Anaikuttam |
| 30 | Ramanadhi Res. |
| 31 | Vidur Res. |

## HISTORY SHEET

**Water Year : 2015-2016**

| | | | | | |
|---|---|---|---|---|---|
| **Site** | : | **MARELLA** | **Code** | : | **AU000E5** |
| State | : | Andhra Pradesh | District | | Prakasam |
| Basin | : | EFR B Krishna-Pennar | Independent River | : | Gundlakamma |
| Tributary | : | - | Sub Tributary | : | - |
| Sub-Sub Tributary | : | - | Local River | : | Gundlakamma |
| Division | : | Lower Krishna Divn., Hyderabad | Sub-Division | : | Lower Krishna SD 1, N.S.Dam |
| Drainage Area | : | 7681 Sq. Km. | Bank | : | Right |
| Latitude | : | 15°52'55" | Longitude | : | 79°54'36" |
| **Zero of Gauge (m)** | : | 95.000(m.s.l)<br>28.000 (m.s.l) | 21/06/2007<br>01/06/2012 | - | 31/05/2012 |
| | | Opening Date | Closing Date | | |
| Gauge | : | 21/06/2007 | | | |
| Discharge | : | 28/06/2007 | | | |
| Sediment | : | 01/08/2007 | | | |
| Water Quality | : | 01/09/2007 | | | |

**Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)**

| | Maximum | | | Minimum | | |
|---|---|---|---|---|---|---|
| **Year** | **Q (cumecs)** | **WL (m)** | **Date** | **Q (cumecs)** | **WL (m)** | **Date** |
| 2007-2008 | 396.8 | 99.900 | 23/06/2007 | 0.000 | 96.530 | 18/08/2007 |
| 2008-2009 | 1067 | 100.820 | 30/11/2008 | 0.025 | 96.510 | 18/07/2008 |
| 2009-2010 | 1054 | 101.420 | 21/05/2010 | 0.000 | 96.380 | 30/07/2009 |
| 2010-2011 | 834.9 | 100.970 | 08/12/2010 | 0.507 | 96.390 | 31/05/2011 |
| 2011-2012 | 93.17 | 97.790 | 29/10/2011 | 0.000 | 96.350 | 25/05/2012 |
| 2012-2013 | 310.5 | 32.500 | 02/11/2012 | 0.000 | 29.280 | 08/12/2012 |
| 2013-2014 | 1600 | 34.600 | 25/10/2013 | 0.000 | Dry Bed | 01/06/2013 |
| 2014-2015 | 277.0 | 31.560 | 27/10/2014 | 0.000 | 29.200 | 01/06/2014 |

Q : Observed / Computed Discharge
WL : Corresponding Water Level(m.s.l)

## Stage-Discharge Data for the period 2015 - 2016

**Station Name : MARELLA ( AU000E5)** **Division : Lower Krishna Divn., Hyderabad**

**Local River : Gundlakamma** **Sub-Division : Lower Krishna SD 1, N.S.Dam**

| Day | Jun | | Jul | | Aug | | Sep | | Oct | | Nov | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | W.L | Q | W.L | Q | W.L | Q | W.L | Q | W.L | Q | W.L | Q |
| 1 | | 0.000 | 29.430 | 3.293 | | 0.000 | 29.120 | 0.032 | | 0.000 | | 0.000 |
| 2 | | 0.000 | 29.420 | 3.009 | | 0.000 | 29.110 | 0.000 | | 0.000 | | 0.000 |
| 3 | | 0.000 | 29.420 | 2.915 | | 0.000 | 29.110 | 0.027 | | 0.000 | | 0.000 |
| 4 | | 0.000 | 29.410 | 2.062 | | 0.000 | 29.060 | 0.000 | | 0.000 | | 0.000 |
| 5 | | 0.000 | 29.340 | 1.615 * | | 0.000 | 29.030 | 0.000 | 29.270 | 0.000 | | 0.000 |
| 6 | | 0.000 | 29.260 | 0.000 | | 0.000 | 29.000 | 0.000 | 29.590 | 8.613 | | 0.000 |
| 7 | | 0.000 | 29.220 | 0.000 | | 0.000 | 28.990 | 0.000 | 29.550 | 6.555 | | 0.000 |
| 8 | | 0.000 | 29.200 | 0.000 | | 0.000 | 29.060 | 0.000 | 29.440 | 2.613 | | 0.000 |
| 9 | | 0.000 | 29.160 | 0.000 | | 0.000 | 29.030 | 0.000 | 29.430 | 2.563 | | 0.000 |
| 10 | | 0.000 | 29.110 | 0.000 | | 0.000 | 29.060 | 0.000 | 29.380 | 1.573 | | 0.000 |
| 11 | | 0.000 | 29.110 | 0.000 | | 0.000 | 29.090 | 0.000 | 29.210 | 0.000 | | 0.000 |
| 12 | | 0.000 | 29.100 | 0.000 | | 0.000 | 29.090 | 0.000 | 29.000 | 0.000 | | 0.000 |
| 13 | | 0.000 | 29.050 | 0.000 | | 0.000 | 29.390 | 2.363 * | | 0.000 | | 0.000 |
| 14 | | 0.000 | 29.020 | 0.000 | | 0.000 | 29.350 | 1.670 | | 0.000 | | 0.000 |
| 15 | | 0.000 | 29.030 | 0.000 | | 0.000 | 29.580 | 7.123 | | 0.000 | | 0.000 |
| 16 | 29.290 | 0.000 | 29.030 | 0.000 | | 0.000 | 29.450 | 3.397 | | 0.000 | | 0.000 |
| 17 | 29.310 | 0.000 | 29.030 | 0.000 | | 0.000 | 29.440 | 3.349 * | | 0.000 | | 0.000 |
| 18 | 29.310 | 0.000 | 29.000 | 0.000 | | 0.000 | 29.440 | 3.265 | | 0.000 | | 0.000 |
| 19 | 29.320 | 0.000 | 29.000 | 0.000 | 29.330 | 1.543 | 29.440 | 3.192 | | 0.000 | | 0.000 |
| 20 | 29.360 | 0.000 | | 0.000 | 29.240 | 0.000 | 29.220 | 0.000 | | 0.000 | | 0.000 |
| 21 | 29.370 | 2.038 * | | 0.000 | 29.210 | 0.490 * | 29.140 | 0.000 | | 0.000 | | 0.000 |
| 22 | 29.440 | 3.606 | | 0.000 | 29.755 | 18.37 | 29.130 | 0.000 | | 0.000 | | 0.000 |
| 23 | 29.430 | 3.155 | | 0.000 | 29.760 | 18.80 * | 29.100 | 0.000 | | 0.000 | | 0.000 |
| 24 | 29.430 | 3.150 | | 0.000 | 29.440 | 3.130 | 29.050 | 0.000 | | 0.000 | | 0.000 |
| 25 | 29.430 | 3.143 | | 0.000 | 29.465 | 4.142 | 29.040 | 0.000 | | 0.000 | | 0.000 |
| 26 | 29.420 | 2.987 | | 0.000 | 29.350 | 1.722 | 29.060 | 0.000 | | 0.000 | | 0.000 |
| 27 | 29.420 | 2.945 | | 0.000 | 29.340 | 1.665 | 29.070 | 0.000 | | 0.000 | | 0.000 |
| 28 | 29.430 | 3.130 * | | 0.000 | 29.360 | 1.762 | 28.940 | 0.000 | | 0.000 | | 0.000 |
| 29 | 29.420 | 2.960 | | 0.000 | 29.270 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 30 | 29.420 | 2.911 | | 0.000 | 29.230 | 0.603 * | | 0.000 | | 0.000 | | 0.000 |
| 31 | | | | 0.000 | 29.120 | 0.032 | | | | 0.000 | | |
| Ten-Daily Mean | | | | | | | | | | | | |
| I Ten-Daily | | 0.000 | 29.297 | 1.289 | | 0.000 | 29.057 | 0.006 | 29.443 | 2.192 | | 0.000 |
| II Ten-Daily | 29.318 | 0.000 | 29.041 | 0.000 | 29.285 | 0.154 | 29.349 | 2.436 | 29.105 | 0.000 | | 0.000 |
| III Ten-Daily | 29.421 | 3.003 | | 0.000 | 29.391 | 4.611 | 29.066 | 0.000 | | 0.000 | | 0.000 |
| Monthly | | | | | | | | | | | | |
| Min. | 29.290 | 0.000 | 29.000 | 0.000 | 29.120 | 0.000 | 28.940 | 0.000 | 29.000 | 0.000 | | 0.000 |
| Max. | 29.440 | 3.606 | 29.430 | 3.293 | 29.760 | 18.80 | 29.580 | 7.123 | 29.590 | 8.613 | | 0.000 |
| Mean | 29.387 | 1.001 | 29.176 | 0.416 | 29.375 | 1.686 | 29.164 | 0.814 | 29.359 | 0.707 | | 0 |

**Annual Runoff in MCM = 12 Annual Runoff in mm = 2**

**Peak Observed Discharge = 18.37 cumecs on 22/08/2015 Corres. Water Level :29.755 m**

**Lowest Observed Discharge = 0.000 cumecs on 01/06/2015**

Q: Observed/Computed Discharge in cumecs

WL:Corresponding Mean Water Level(m.s.l) in m

*:Computed Discharge

*Note:Missing values ignored while arriving at Annual Runoff*

## Stage-Discharge Data for the period 2015 - 2016

**Station Name : MARELLA ( AU000E5)** **Division : Lower Krishna Divn., Hyderabad**

**Local River : Gundlakamma** **Sub-Division : Lower Krishna SD 1, N.S.Dam**

| Day | Dec | | Jan | | Feb | | Mar | | Apr | | May | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | W.L | Q | WL | Q | WL | Q | WL | Q | WL | Q | WL | Q |
| 1 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 2 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 3 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 4 | 29.000 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 5 | 29.000 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 6 | 29.000 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 7 | 28.980 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 8 | 28.920 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 9 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 10 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 11 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 12 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 13 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 14 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 15 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 16 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 17 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 18 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 19 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 20 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 21 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 22 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 23 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 24 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 25 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 26 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 27 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 28 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 29 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 30 | | 0.000 | | 0.000 | | | | 0.000 | | 0.000 | | 0.000 |
| 31 | | 0.000 | | 0.000 | | | | 0.000 | | | | 0.000 |
| Ten-Daily Mean | | | | | | | | | | | | |
| I Ten-Daily | 28.980 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| II Ten-Daily | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| III Ten-Daily | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| Monthly | | | | | | | | | | | | |
| Min. | 28.920 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| Max. | 29.000 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| Mean | 28.980 | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |

**Peak Computed Discharge = 18.80 cumecs on 23/08/2015 Corres. Water Level :29.76 m**

**Lowest Computed Discharge = 0.490 cumecs on 21/08/2015 Corres. Water Level :29.21 m**

Q: Observed/Computed Discharge in cumecs

WL:Corresponding Mean Water Level(m.s.l) in m

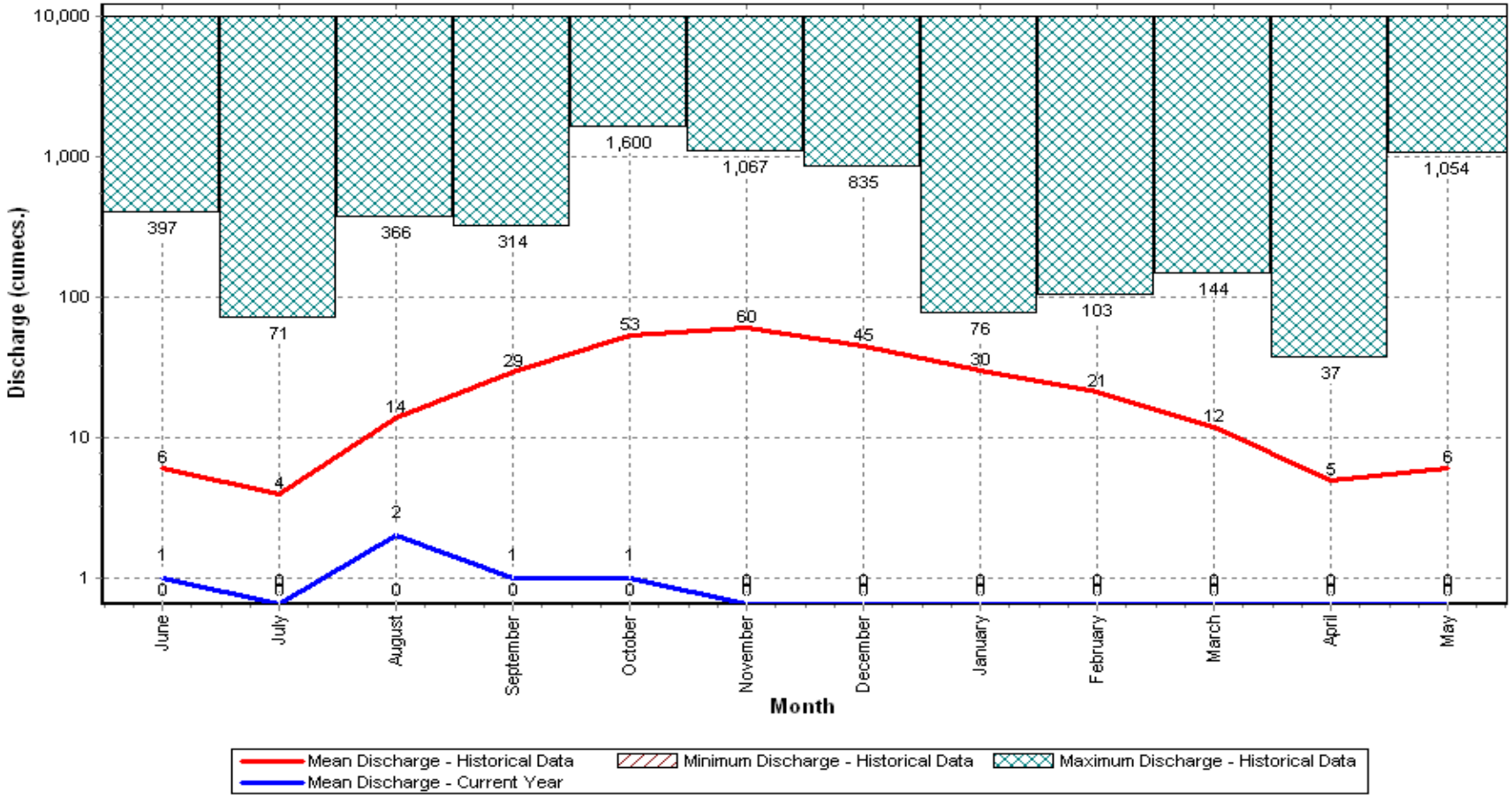
*:Computed Discharge

*Note:Missing values ignored while arriving at Annual Runoff*

**HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016**

**Station Name : MARELLA ( AU000E5)** | **Data considered : 2007-2016** | **Division : Lower Krishna Divn., Hyderabad**

**Local River : Gundlakamma** | **Sub-Division : Lower Krishna SD 1, N.S.Dam**



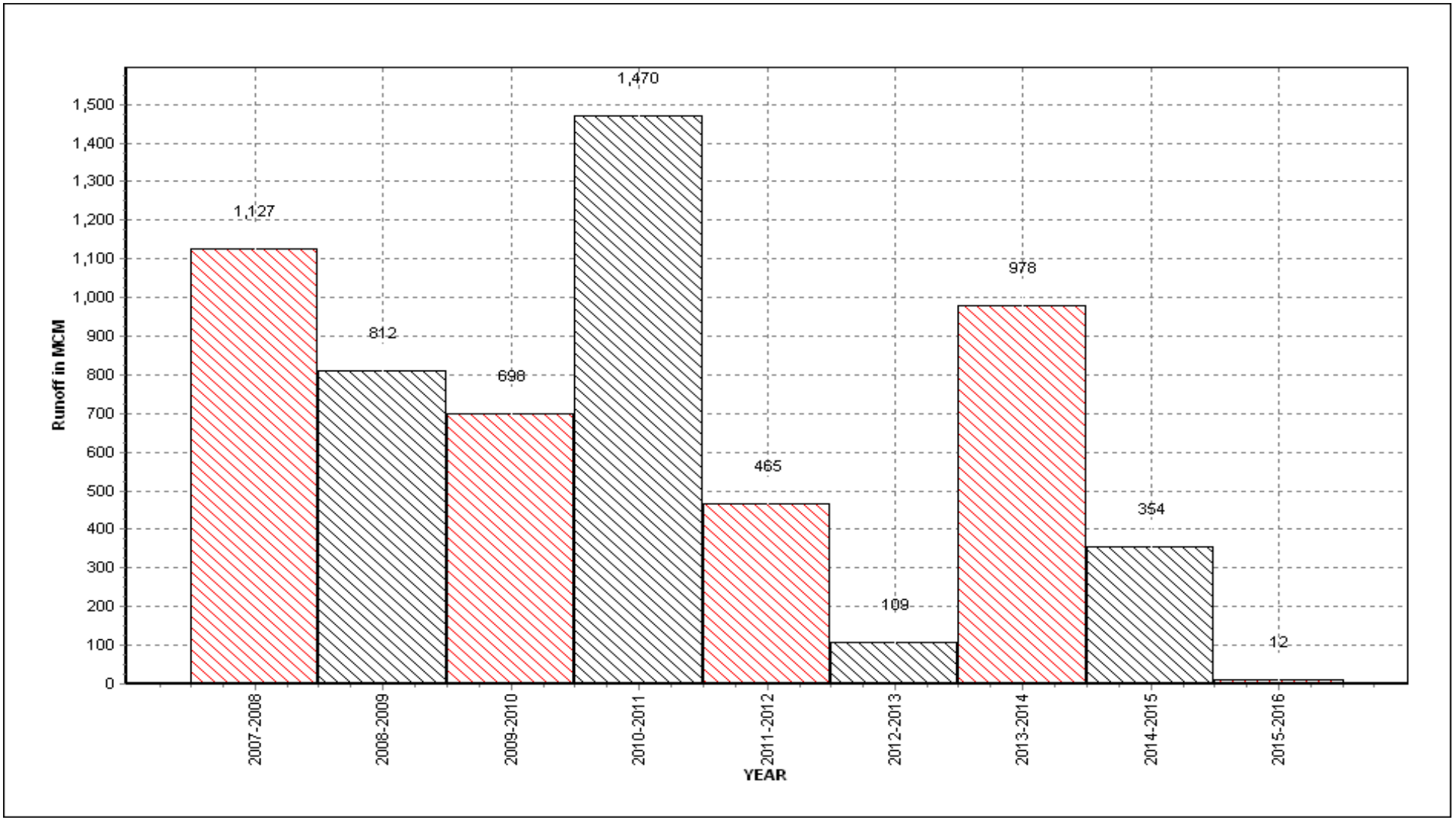
**Annual Runoff Values for the period: 2007 - 2016**

**Station Name : MARELLA ( AU000E5)**

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

**Local River : Gundlakamma**

**Sub-Division : Lower Krishna SD 1, N.S.Dam**

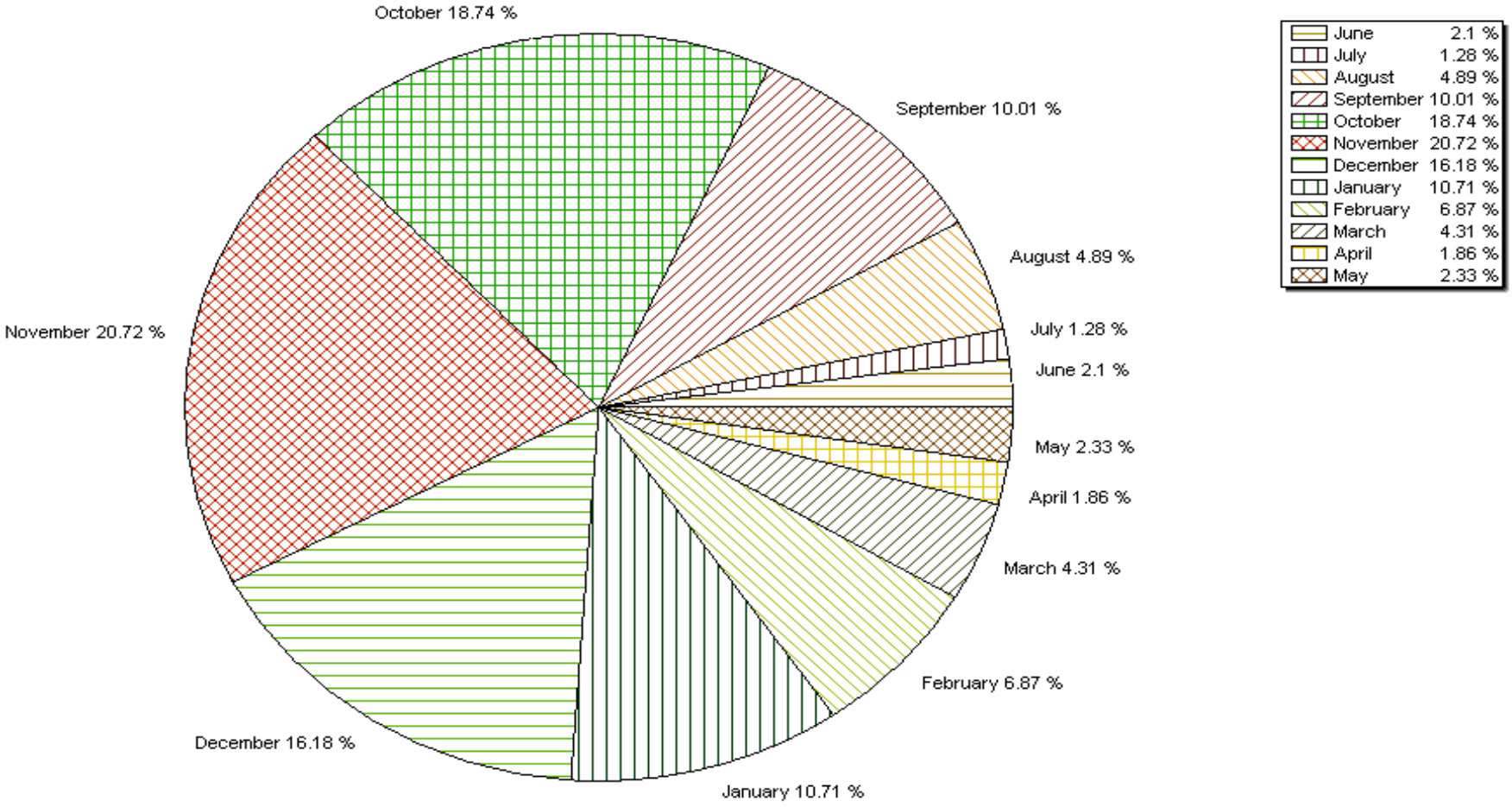



*Note: Missing values have not been considered while arriving at Annual Runoff*

**Monthly Average Runoff based on period : 2007-2015**

**Station Name : MARELLA ( AU000E5)**
**Local River : Gundlakamma**

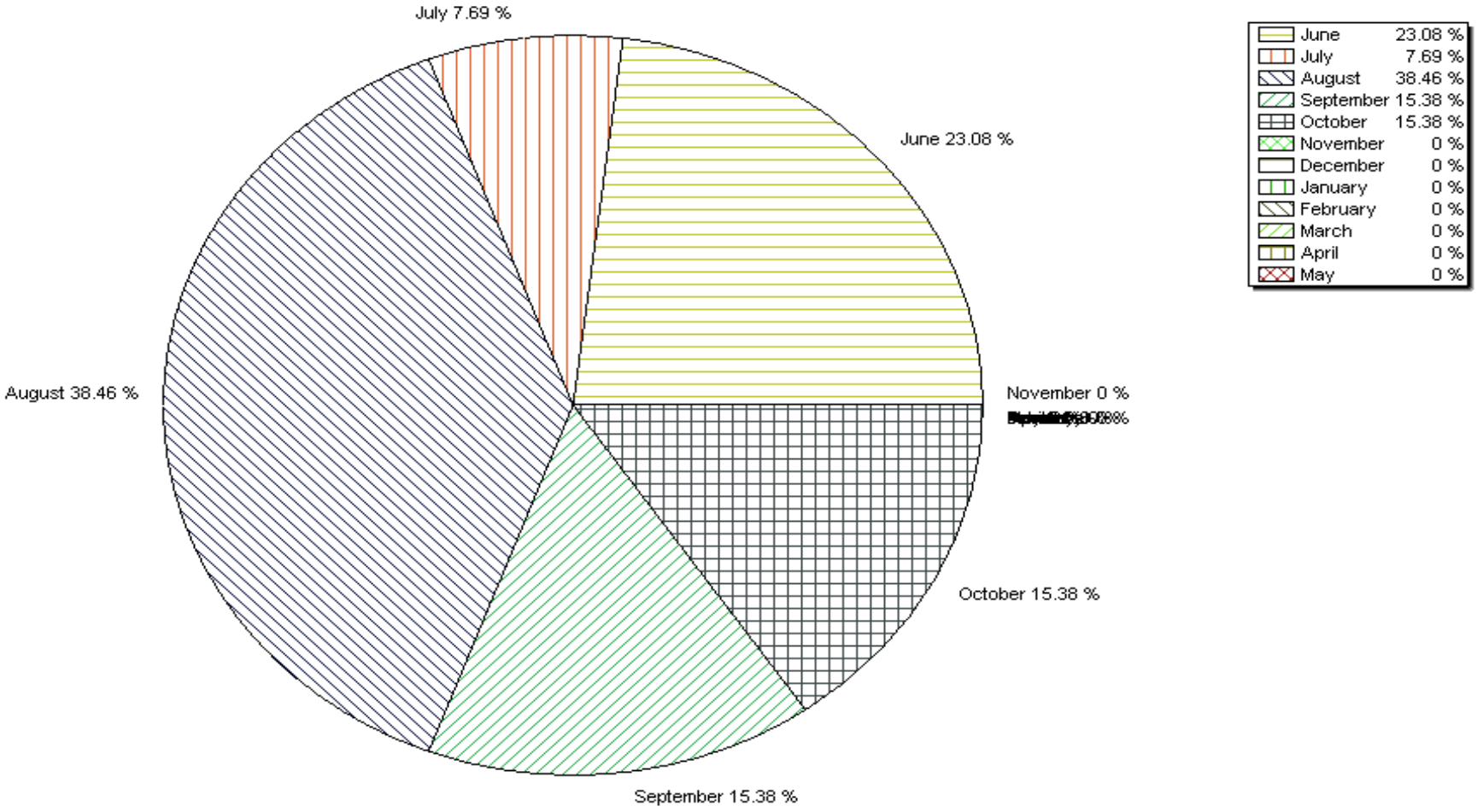
**Division : Lower Krishna Divn., Hyderabad**
**Sub-Division : Lower Krishna SD 1, N.S.Dam**



**Monthly Runoff for the Year : 2015-2016**

**Station Name : MARELLA ( AU000E5)**
**Local River : Gundlakamma**

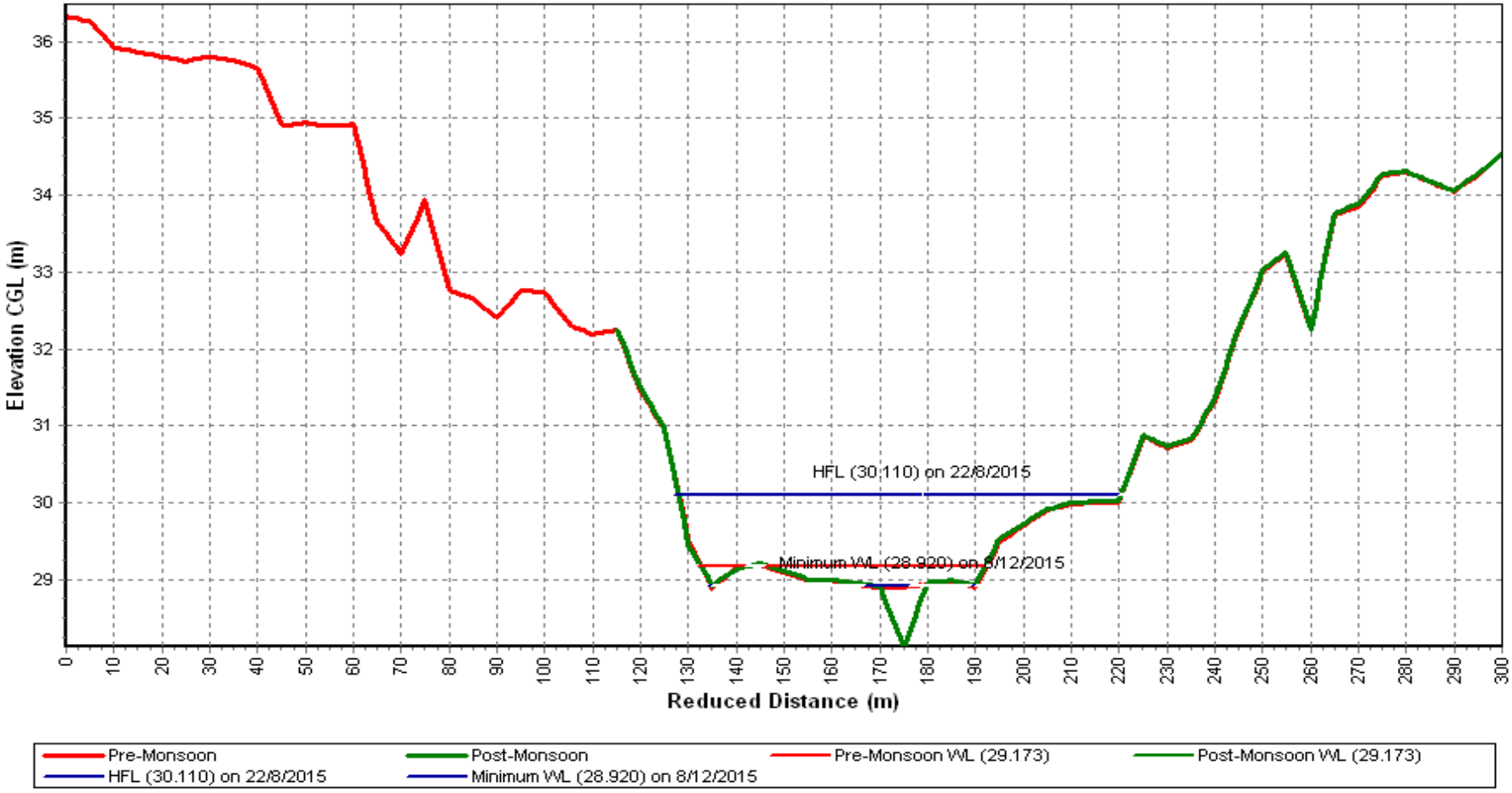
**Division : Lower Krishna Divn., Hyderabad**
**Sub-Division : Lower Krishna SD 1, N.S.Dam**



**Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2015-2016**

**Station Name : MARELLA ( AU000E5)**
**Local River : Gundlakamma**

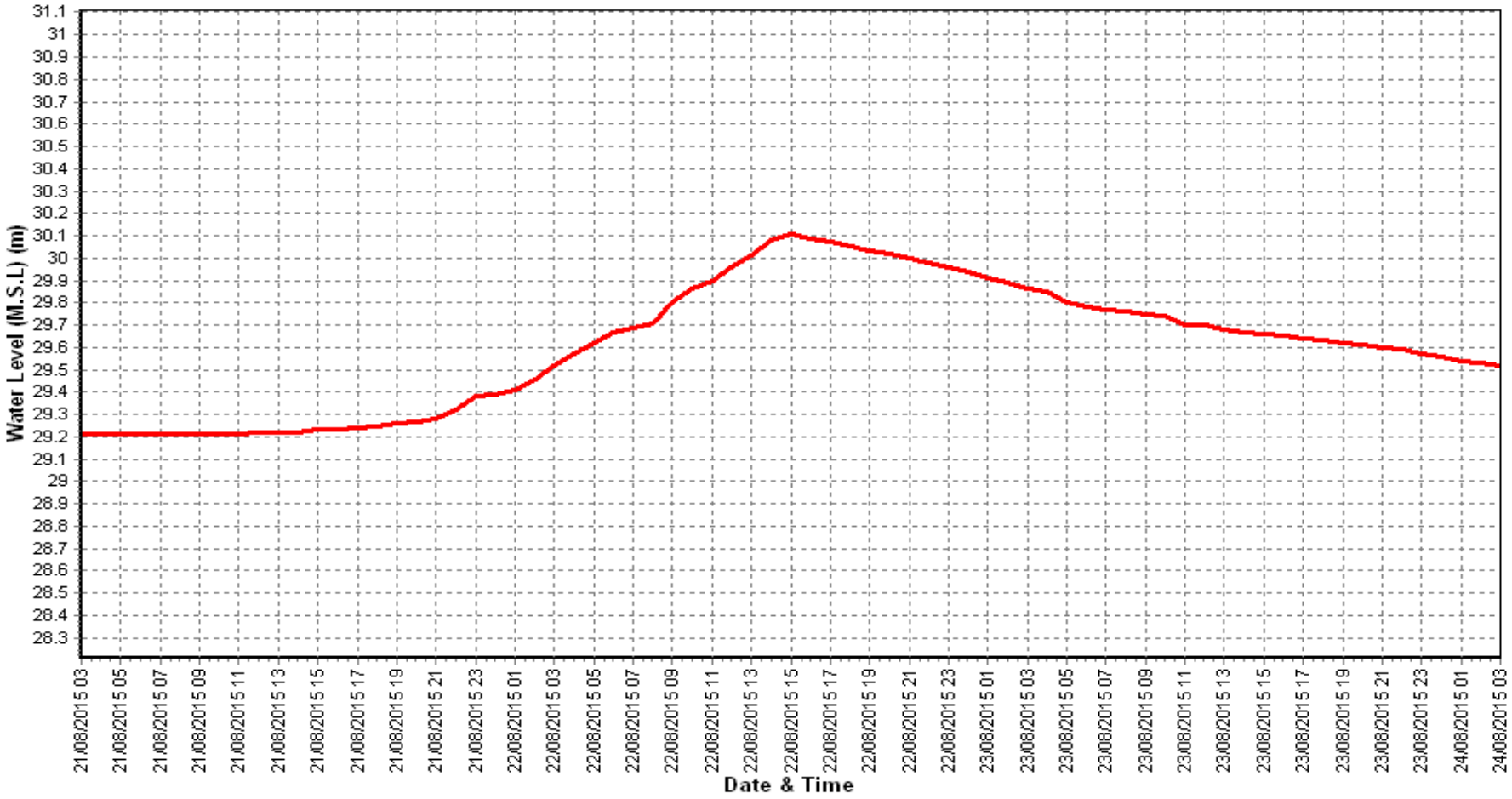
**Division : Lower Krishna Divn., Hyderabad**
**Sub-Division : Lower Krishna SD 1, N.S.Dam**



**Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2015-2016**

**Station Name : MARELLA ( AU000E5)** **Division : Lower Krishna Divn., Hyderabad**

**Local River : Gundlakamma** **Sub-Division : Lower Krishna SD 1, N.S.Dam**

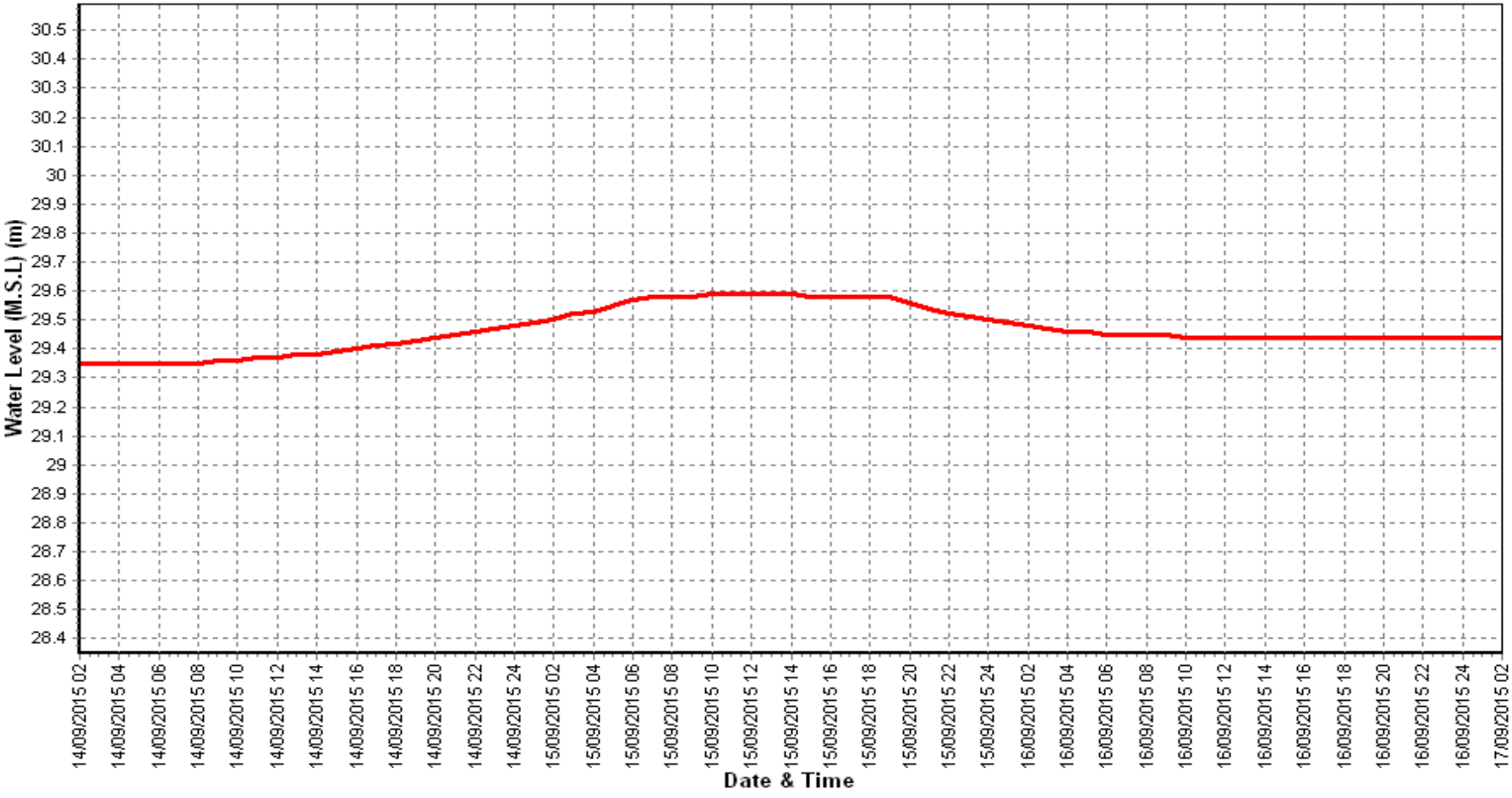



Time Span: 72 Hrs

**Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2015-2016**

**Station Name : MARELLA ( AU000E5)** **Division : Lower Krishna Divn., Hyderabad**

**Local River : Gundlakamma** **Sub-Division : Lower Krishna SD 1, N.S.Dam**

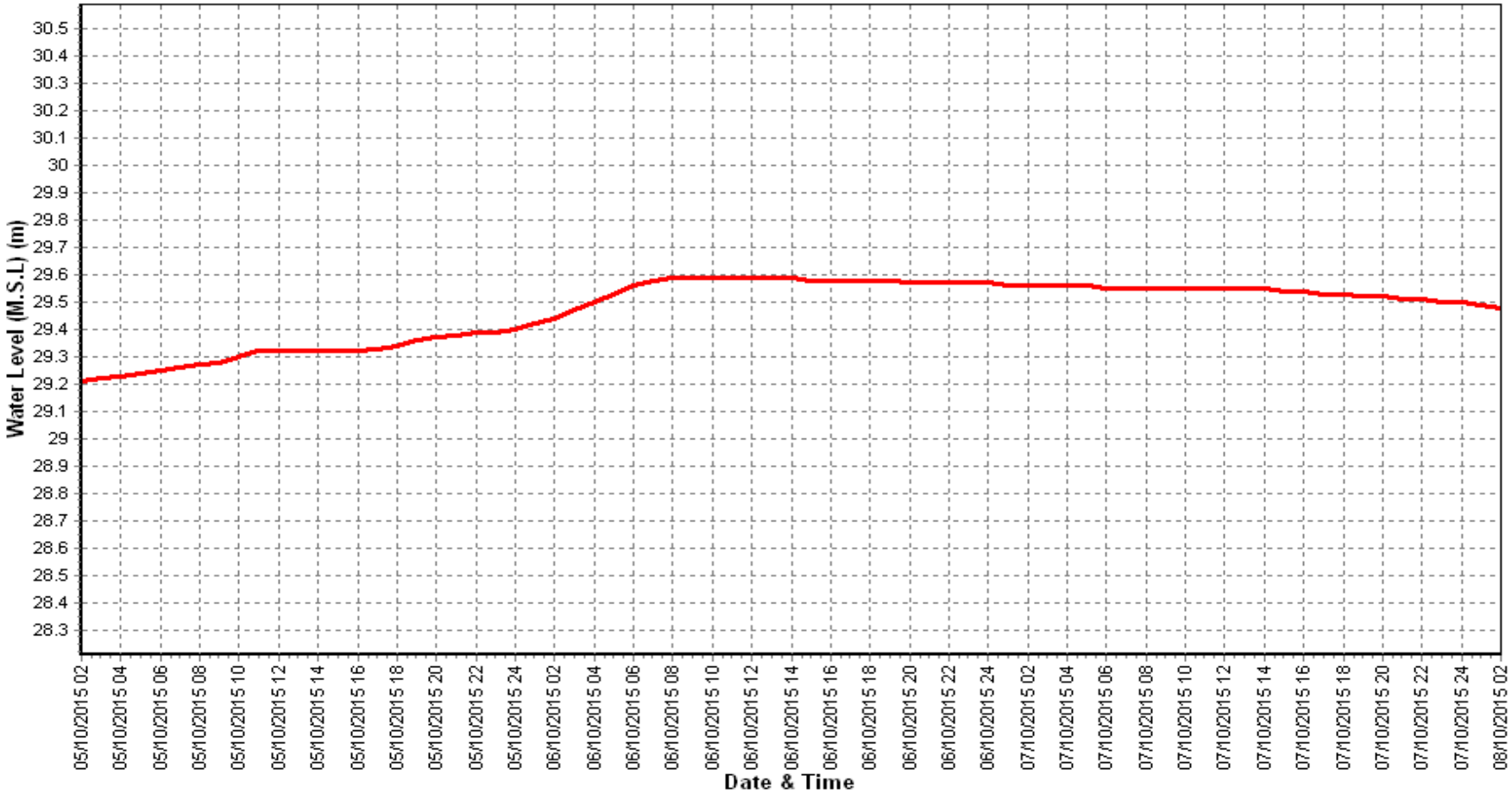



Time Span: 72 Hrs

**Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2015-2016**

**Station Name : MARELLA ( AU000E5)** **Division : Lower Krishna Divn., Hyderabad**

**Local River : Gundlakamma** **Sub-Division : Lower Krishna SD 1, N.S.Dam**




Time Span: 72 Hrs

## HISTORY SHEET

**Water Year : 2015-2016**

| | | | | | |
|---|---|---|---|---|---|
| **Site** | **:** | **Nellore** | **Code** | **:** | **AP000A6** |
| State | : | Andhra Pradesh | District | | Nellore |
| Basin | : | Pennar | Independent River | : | Pennar |
| Tributary | : | - | Sub Tributary | : | |
| Sub-Sub Tributary | : | | Local River | : | Pennar |
| Division | : | Hydrology Division, Chennai | Sub-Division | : | Pennar SD, Kadapa |
| Drainage Area | : | 50800 Sq. Km. | Bank | : | Right |
| Latitude | : | 14°28'13" | Longitude | : | 79°59'20" |
| **Zero of Gauge (m)** | : | 43.500 (m.s.l) Arb<br>7.230 (m.s.l) | 14/08/1987<br>01/06/2003 | - | 31/05/2003 |
| | | Opening Date | Closing Date | | |
| Gauge | : | 14/08/1987 | | | |
| Discharge | : | 28/08/1987 | | | |
| Sediment | : | 21/06/2014 | | | |
| Water Quality | : | 01/09/1988 | | | |

**Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)**

| | Maximum | | | Minimum | | |
|---|---|---|---|---|---|---|
| **Year** | **Q (cumecs)** | **WL (m)** | **Date** | **Q (cumecs)** | **WL (m)** | **Date** |
| 1988-1989 | 2726 | 49.195 | 15/09/1988 | 0.035 | 45.035 | 28/05/1989 |
| 1989-1990 | 1692 | 48.265 | 20/07/1989 | 0.040 | 44.900 | 25/06/1989 |
| 1990-1991 | 833.0 | 47.900 | 30/11/1990 | 0.050 | 44.885 | 07/06/1990 |
| 1991-1992 | 5789 | 51.215 | 18/11/1991 | 0.522 | 45.140 | 23/05/1992 |
| 1992-1993 | 436.9 | 46.858 | 19/11/1992 | 0.151 | 44.840 | 19/05/1993 |
| 1993-1994 | 1782 | 48.130 | 07/12/1993 | 0.122 | 44.810 | 19/07/1993 |
| 1994-1995 | 1762 | 48.544 | 01/11/1994 | 0.190 | 44.780 | 03/05/1995 |
| 1995-1996 | 12.62 | 45.418 | 28/10/1995 | 0.130 | 44.650 | 31/05/1996 |
| 1996-1997 | 5363 | 51.090 | 21/10/1996 | 0.000 | Dry Bed | 11/03/1997 |
| 1997-1998 | 947.3 | 47.145 | 08/12/1997 | 0.000 | 45.000 | 01/06/1997 |
| 1998-1999 | 2371 | 48.610 | 13/10/1998 | 0.000 | 44.820 | 01/06/1998 |
| 1999-2000 | 21.72 | 44.960 | 08/10/1999 | 0.000 | Dry Bed | 01/06/1999 |
| 2000-2001 | 4589 | 50.015 | 25/08/2000 | 0.000 | Dry Bed | 01/06/2000 |
| 2001-2002 | 8673 | 50.895 | 18/10/2001 | 0.000 | Dry Bed | 01/06/2001 |
| 2002-2003 | 63.65 | 46.180 | 11/11/2002 | 0.000 | 44.640 | 01/06/2002 |
| 2003-2004 | 486.9 | 10.015 | 22/10/2003 | 0.000 | 8.115 | 01/06/2003 |
| 2004-2005 | 186.8 | 9.360 | 07/11/2004 | 0.000 | 8.120 | 01/06/2004 |
| 2005-2006 | 4159 | 12.655 | 05/12/2005 | 0.000 | 8.165 | 01/06/2005 |

Q : Observed / Computed Discharge
WL : Corresponding Water Level(m.s.l)

**Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)**

| | Maximum | | | Minimum | | |
|---|---|---|---|---|---|---|
| **Year** | **Q (cumecs)** | **WL (m)** | **Date** | **Q (cumecs)** | **WL (m)** | **Date** |
| 2006-2007 | 142.4 | 9.475 | 20/11/2006 | 0.000 | 8.360 | 01/06/2006 |
| 2007-2008 | 757.4 | 13.390 | 30/10/2007 | 0.000 | 8.300 | 01/06/2007 |
| 2008-2009 | 201.8 | 10.650 | 29/11/2008 | 0.000 | 8.310 | 01/06/2008 |
| 2009-2010 | 412.1 | 9.920 | 10/11/2009 | 0.000 | 7.930 | 01/06/2009 |
| 2010-2011 | 2300 | 11.730 | 19/11/2010 | 0.000 | 7.860 | 01/06/2010 |
| 2011-2012 | 540.8 | 10.110 | 29/11/2011 | 0.122 | 7.910 | 22/04/2012 |
| 2012-2013 | 146.6 | 9.395 | 07/12/2012 | 0.000 | 7.830 | 14/05/2013 |
| 2013-2014 | 9.482 | 8.410 | 16/09/2013 | 0.000 | 7.820 | 01/06/2013 |
| 2014-2015 | 26.46 | 9.055 | 12/12/2014 | 0.000 | 7.880 | 01/06/2014 |

Q : Observed / Computed Discharge
WL : Corresponding Water Level(m.s.l)

## Stage-Discharge Data for the period 2015 - 2016

**Station Name : Nellore ( AP000A6)** **Division : Hydrology Division, Chennai**

**Local River : Pennar** **Sub-Division : PSD, Kadapa**

| Day | Jun | | Jul | | Aug | | Sep | | Oct | | Nov | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | W.L | Q | W.L | Q | W.L | Q | W.L | Q | W.L | Q | W.L | Q |
| 1 | 7.930 | 0.263 | 7.975 | 0.247 | 7.915 | 0.194 | 7.945 | 0.167 | 7.890 | 0.093 | 7.865 | 0.088 * |
| 2 | 7.920 | 0.214 | 7.980 | 0.224 | 7.910 | 0.165 * | 7.930 | 0.151 | 7.895 | 0.138 * | 7.860 | 0.077 |
| 3 | 7.920 | 0.228 | 7.980 | 0.221 | 7.910 | 0.187 | 7.930 | 0.147 | 7.895 | 0.138 # | 7.860 | 0.063 |
| 4 | 7.920 | 0.230 | 7.985 | 0.239 | 7.910 | 0.189 | 7.920 | 0.237 | 7.935 | 0.221 * | 7.860 | 0.000 |
| 5 | 7.920 | 0.228 | 7.975 | 0.217 * | 7.905 | 0.176 | 7.915 | 0.211 | 7.895 | 0.130 | 7.855 | 0.000 |
| 6 | 7.930 | 0.275 | 7.970 | 0.193 | 7.905 | 0.175 | 7.910 | 0.167 * | 7.885 | 0.120 # | 7.855 | 0.000 |
| 7 | 7.930 | 0.257 * | 7.970 | 0.189 | 7.905 | 0.127 | 7.960 | 0.283 # | 7.890 | 0.129 # | 7.855 | 0.000 |
| 8 | 7.940 | 0.284 | 7.945 | 0.183 | 7.930 | 0.219 # | 7.950 | 0.321 | 7.895 | 0.124 | 7.860 | 0.081 * |
| 9 | 7.940 | 0.276 | 7.935 | 0.159 | 7.915 | 0.178 * | 7.950 | 0.311 | 7.900 | 0.148 # | 7.895 | 0.151 |
| 10 | 7.940 | 0.290 | 7.930 | 0.221 | 7.920 | 0.149 | 7.945 | 0.293 | 7.890 | 0.129 # | 8.040 | 0.528 * |
| 11 | 7.940 | 0.284 | 7.925 | 0.198 | 7.955 | 0.295 # | 7.935 | 0.214 | 7.880 | 0.112 * | 8.115 | 0.718 |
| 12 | 7.955 | 0.313 | 7.925 | 0.205 * | 7.920 | 0.193 | 7.940 | 0.233 # | 7.880 | 0.112 # | 10.775 | 836.3 |
| 13 | 7.950 | 0.311 | 7.920 | 0.200 | 7.910 | 0.155 | 7.935 | 0.221 * | 7.880 | 0.142 | 10.058 | 763.4 |
| 14 | 7.950 | 0.317 * | 7.920 | 0.195 | 7.905 | 0.154 | 7.920 | 0.169 | 7.880 | 0.119 | 9.470 | 509.0 * |
| 15 | 7.960 | 0.349 * | 7.940 | 0.293 | 7.905 | 0.153 * | 7.905 | 0.169 | 7.880 | 0.119 | 9.160 | 438.3 * |
| 16 | 7.950 | 0.317 * | 7.930 | 0.224 | 7.910 | 0.165 * | 7.900 | 0.128 | 7.870 | 0.094 | 9.018 | 495.2 |
| 17 | 7.940 | 0.273 | 7.930 | 0.217 | 7.915 | 0.156 | 7.900 | 0.148 * | 7.860 | 0.080 | 11.845 | 1388 |
| 18 | 7.945 | 0.301 | 7.940 | 0.248 * | 7.920 | 0.189 | 7.900 | 0.150 | 7.860 | 0.081 * | 11.345 | 921.2 |
| 19 | 7.945 | 0.308 | 7.930 | 0.219 * | 7.920 | 0.165 | 7.900 | 0.142 | 7.855 | 0.081 | 10.635 | 814.6 |
| 20 | 7.945 | 0.313 | 7.920 | 0.188 | 7.925 | 0.109 | 7.890 | 0.129 * | 7.855 | 0.083 | 10.240 | 690.7 |
| 21 | 7.945 | 0.302 * | 7.930 | 0.219 * | 7.960 | 0.336 # | 7.915 | 0.152 | 7.855 | 0.074 * | 9.985 | 604.1 |
| 22 | 7.940 | 0.307 | 7.925 | 0.205 * | 8.018 | 0.837 | 7.905 | 0.157 | 7.850 | 0.067 * | 9.970 | 633.1 * |
| 23 | 7.940 | 0.309 | 7.925 | 0.201 | 8.455 | 24.38 * | 7.900 | 0.128 | 7.850 | 0.065 | 9.840 | 549.2 |
| 24 | 7.940 | 0.284 | 7.920 | 0.189 | 8.028 | 1.143 | 7.875 | 0.104 * | 7.845 | 0.061 * | 9.600 | 507.3 |
| 25 | 7.940 | 0.276 | 7.920 | 0.185 | 7.960 | 0.324 | 7.870 | 0.098 | 7.845 | 0.061 * | 9.530 | 523.2 * |
| 26 | 7.940 | 0.284 | 7.920 | 0.191 * | 7.945 | 0.176 # | 7.930 | 0.172 | 7.845 | 0.070 | 9.275 | 449.7 |
| 27 | 7.940 | 0.306 | 7.920 | 0.193 | 8.363 | 2.834 # | 7.900 | 0.148 * | 7.845 | 0.058 | 9.070 | 403.8 |
| 28 | 7.940 | 0.286 * | 7.920 | 0.162 | 8.093 | 0.699 | 7.890 | 0.130 | 7.855 | 0.073 | 9.035 | 393.5 |
| 29 | 7.940 | 0.271 | 7.920 | 0.174 | 7.980 | 0.315 | 7.885 | 0.104 | 7.860 | 0.083 | 8.930 | 388.9 * |
| 30 | 7.965 | 0.202 # | 7.920 | 0.161 | 7.955 | 0.201 * | 7.885 | 0.119 | 7.900 | 0.166 | 8.900 | 381.4 |
| 31 | | | 7.910 | 0.166 | 7.945 | 0.151 | | | 7.880 | 0.112 # | | |
| **Ten-Daily Mean** | | | | | | | | | | | | |
| I Ten-Daily | 7.929 | 0.254 | 7.965 | 0.209 | 7.912 | 0.176 | 7.935 | 0.229 | 7.897 | 0.137 | 7.880 | 0.099 |
| II Ten-Daily | 7.948 | 0.309 | 7.928 | 0.219 | 7.919 | 0.173 | 7.912 | 0.170 | 7.870 | 0.102 | 10.066 | 685.8 |
| III Ten-Daily | 7.943 | 0.283 | 7.921 | 0.186 | 8.064 | 2.854 | 7.896 | 0.131 | 7.857 | 0.081 | 9.413 | 483.4 |
| **Monthly** | | | | | | | | | | | | |
| Min. | 7.920 | 0.202 | 7.910 | 0.159 | 7.905 | 0.109 | 7.870 | 0.098 | 7.845 | 0.058 | 7.855 | 0.000 |
| Max. | 7.965 | 0.349 | 7.985 | 0.293 | 8.455 | 24.38 | 7.960 | 0.321 | 7.935 | 0.221 | 11.845 | 1388 |
| Mean | 7.940 | 0.282 | 7.937 | 0.204 | 7.968 | 1.125 | 7.914 | 0.177 | 7.874 | 0.106 | 9.120 | 389.8 |

**Annual Runoff in MCM = 1683 Annual Runoff in mm = 33**

**Peak Observed Discharge = 1388 cumecs on 17/11/2015 Corres. Water Level :11.845 m**

**Lowest Observed Discharge = 0.000 cumecs on 04/11/2015 Corres. Water Level :7.86 m**

Q: Observed/Computed Discharge in cumecs

WL:Corresponding Mean Water Level(m.s.l) in m

*:Computed Discharge

#:Discarded Discharge (values changed as per rating curve)

*Note:Missing values ignored while arriving at Annual Runoff*

## Stage-Discharge Data for the period 2015 - 2016

**Station Name : Nellore ( AP000A6)** **Division : Hydrology Division, Chennai**

**Local River : Pennar** **Sub-Division : PSD, Kadapa**

| Day | Dec | | Jan | | Feb | | Mar | | Apr | | May | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | W.L | Q | WL | Q | WL | Q | WL | Q | WL | Q | WL | Q |
| 1 | 9.145 | 405.0 | 8.310 | 8.508 | 8.330 | 4.672 | 8.390 | 5.968 | 8.405 | 7.642 | 7.840 | 0.000 |
| 2 | 10.050 | 646.4 | 8.310 | 7.177 * | 8.335 | 4.782 | 8.395 | 5.953 | 8.380 | 6.220 | 7.840 | 0.000 |
| 3 | 10.240 | 723.0 | 8.320 | 7.771 * | 8.335 | 4.905 | 8.395 | 6.109 | 8.370 | 5.596 * | 7.840 | 0.000 |
| 4 | 10.155 | 693.2 | 8.320 | 8.675 | 8.340 | 5.122 | 8.395 | 6.076 | 8.365 | 6.600 | 7.840 | 0.000 |
| 5 | 9.890 | 622.0 | 8.320 | 8.506 | 8.345 | 5.347 | 8.395 | 6.016 | 8.355 | 5.777 | 7.840 | 0.000 |
| 6 | 9.420 | 484.8 * | 8.315 | 8.122 | 8.345 | 5.353 | 8.395 | 6.058 * | 8.350 | 5.403 | 7.845 | 0.000 |
| 7 | 9.165 | 438.7 | 8.290 | 6.131 | 8.345 | 5.154 * | 8.395 | 6.086 | 8.350 | 5.427 | 7.850 | 0.000 |
| 8 | 8.845 | 362.6 | 8.290 | 5.500 | 8.345 | 5.522 | 8.395 | 6.093 | 8.345 | 5.225 | 7.850 | 0.000 |
| 9 | 8.745 | 348.8 | 8.290 | 4.771 | 8.350 | 5.748 | 8.395 | 6.031 | 8.345 | 5.154 * | 7.855 | 0.000 |
| 10 | 8.670 | 313.2 | 8.290 | 6.063 * | 8.345 | 4.546 | 8.395 | 6.083 | 8.335 | 4.983 * | 7.850 | 0.000 |
| 11 | 8.495 | 282.7 | 8.290 | 4.729 | 8.340 | 4.204 | 8.380 | 5.387 | 8.330 | 5.202 | 7.850 | 0.000 |
| 12 | 8.440 | 240.8 * | 8.285 | 4.604 | 8.335 | 3.767 | 8.365 | 5.506 * | 8.330 | 5.402 | 7.845 | 0.000 |
| 13 | 8.510 | 255.6 * | 8.290 | 4.488 | 8.335 | 4.323 | 8.355 | 5.328 * | 8.320 | 5.163 | 7.840 | 0.000 |
| 14 | 8.448 | 249.6 | 8.290 | 4.431 | 8.335 | 4.983 * | 8.370 | 4.695 | 8.275 | 4.027 * | 7.835 | 0.000 |
| 15 | 8.408 | 225.1 | 8.300 | 4.411 * | 8.340 | 4.515 | 8.385 | 5.218 | 8.250 | 4.816 | 7.830 | 0.000 |
| 16 | 8.260 | 184.0 | 8.310 | 4.439 | 8.345 | 4.591 | 8.390 | 5.701 | 8.220 | 4.639 | 7.830 | 0.000 |
| 17 | 8.275 | 193.4 | 8.325 | 4.816 * | 8.340 | 4.558 | 8.390 | 5.715 | 7.935 | 0.434 * | 7.840 | 0.000 |
| 18 | 8.295 | 198.4 | 8.325 | 5.153 | 8.345 | 4.630 | 8.390 | 5.719 | 7.903 | 0.216 | 7.850 | 0.000 |
| 19 | 8.295 | 199.7 | 8.325 | 5.211 | 8.350 | 4.767 | 8.395 | 6.044 | 7.885 | 0.194 | 7.860 | 0.000 |
| 20 | 8.270 | 5.047 * | 8.320 | 4.848 | 8.350 | 4.793 | 8.395 | 6.058 * | 7.880 | 0.169 * | 7.865 | 0.000 |
| 21 | 8.265 | 4.809 # | 8.320 | 4.790 | 8.350 | 5.241 * | 8.395 | 6.054 | 7.873 | 0.165 | 7.870 | 0.000 |
| 22 | 8.265 | 5.734 | 8.300 | 4.590 | 8.360 | 4.957 | 8.395 | 6.132 | 7.865 | 0.125 | 7.870 | 0.000 |
| 23 | 8.250 | 4.129 * | 8.300 | 4.883 | 8.385 | 6.761 | 8.405 | 6.897 | 7.860 | 0.124 | 7.870 | 0.000 |
| 24 | 8.250 | 4.129 * | 8.300 | 4.411 * | 8.385 | 6.754 | 8.405 | 6.891 | 7.860 | 0.105 * | 7.870 | 0.000 |
| 25 | 8.260 | 4.576 * | 8.300 | 4.889 | 8.385 | 5.385 | 8.400 | 6.153 * | 7.865 | 0.107 | 7.870 | 0.000 |
| 26 | 8.300 | 6.518 | 8.300 | 4.411 * | 8.390 | 5.726 | 8.395 | 6.106 | 7.860 | 0.092 | 7.870 | 0.000 |
| 27 | 8.310 | 7.177 * | 8.300 | 4.893 | 8.390 | 5.766 | 8.395 | 6.058 * | 7.855 | 0.000 | 7.870 | 0.000 |
| 28 | 8.325 | 7.107 | 8.315 | 4.992 | 8.390 | 5.964 * | 8.395 | 6.189 | 7.850 | 0.000 | 7.870 | 0.000 |
| 29 | 8.325 | 6.816 | 8.315 | 4.123 | 8.390 | 5.617 | 8.395 | 6.105 | 7.845 | 0.000 | 7.860 | 0.000 |
| 30 | 8.315 | 7.816 | 8.320 | 4.669 | | | 8.395 | 6.118 | 7.845 | 0.000 | 7.860 | 0.000 |
| 31 | 8.310 | 8.138 | 8.330 | 4.899 * | | | 8.395 | 7.483 | | | 7.860 | 0.000 |
| **Ten-Daily Mean** | | | | | | | | | | | | |
| I Ten-Daily | 9.433 | 503.8 | 8.306 | 7.123 | 8.342 | 5.115 | 8.394 | 6.047 | 8.360 | 5.803 | 7.845 | 0.000 |
| II Ten-Daily | 8.370 | 203.4 | 8.306 | 4.713 | 8.341 | 4.513 | 8.381 | 5.537 | 8.133 | 3.026 | 7.844 | 0.000 |
| III Ten-Daily | 8.289 | 6.086 | 8.309 | 4.686 | 8.381 | 5.797 | 8.397 | 6.381 | 7.858 | 0.072 | 7.867 | 0.000 |
| **Monthly** | | | | | | | | | | | | |
| Min. | 8.250 | 4.129 | 8.285 | 4.123 | 8.330 | 3.767 | 8.355 | 4.695 | 7.845 | 0.000 | 7.830 | 0.000 |
| Max. | 10.240 | 723.0 | 8.330 | 8.675 | 8.390 | 6.761 | 8.405 | 7.483 | 8.405 | 7.642 | 7.870 | 0.000 |
| Mean | 8.684 | 230.3 | 8.307 | 5.481 | 8.354 | 5.119 | 8.391 | 6.001 | 8.117 | 2.967 | 7.853 | 0 |

**Peak Computed Discharge = 633.1 cumecs on 22/11/2015 Corres. Water Level :9.97 m**

**Lowest Computed Discharge = 0.061 cumecs on 24/10/2015 Corres. Water Level :7.845 m**

Q: Observed/Computed Discharge in cumecs

WL:Corresponding Mean Water Level(m.s.l) in m

*:Computed Discharge

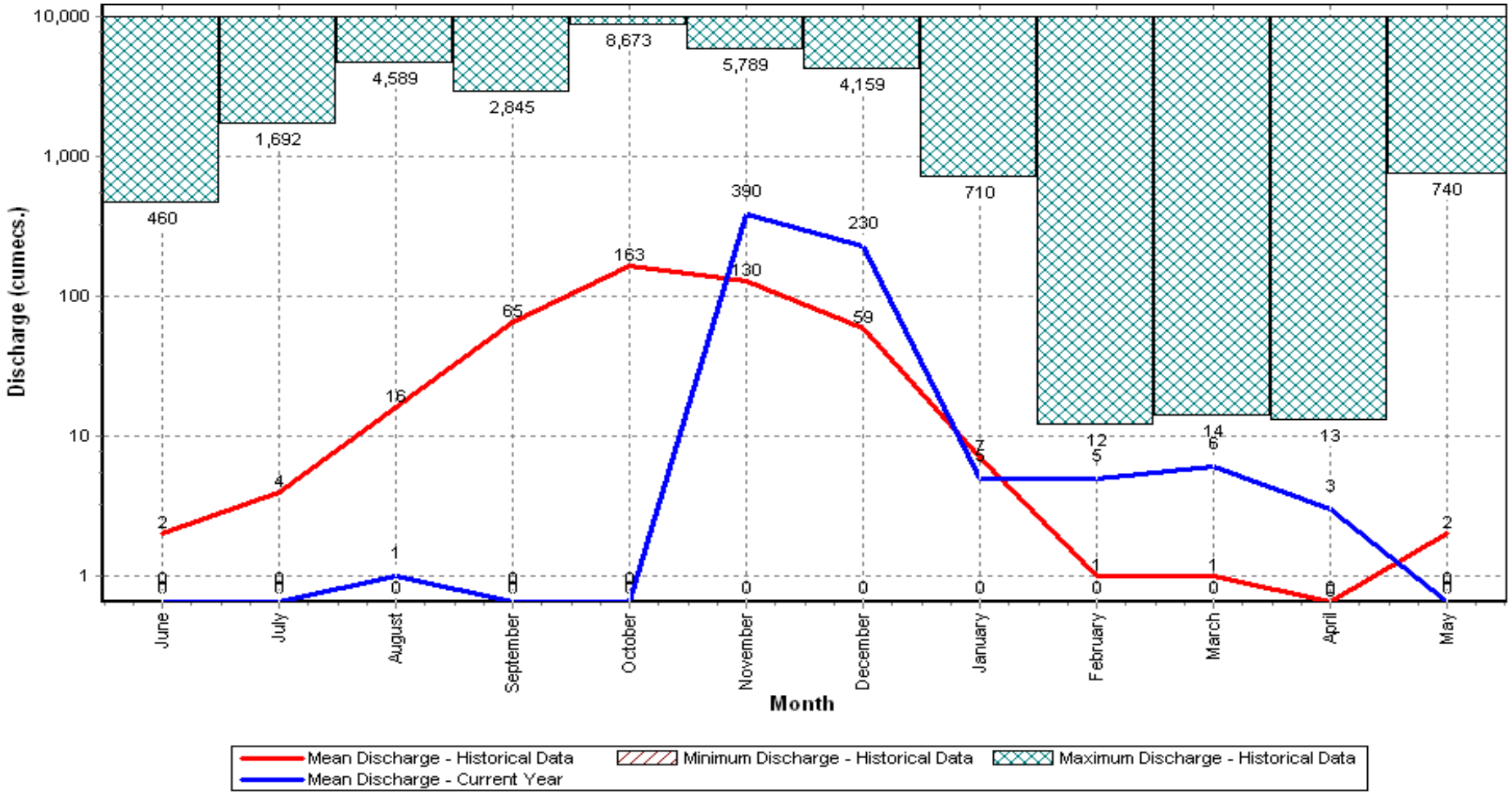
#:Discarded Discharge (values changed as per rating curve)

*Note:Missing values ignored while arriving at Annual Runoff*

**HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016**

**Station Name : Nellore ( AP000A6)** | **Data considered : 1988-2016** | **Division : Hydrology Division, Chennai**

**Local River : Pennar** | **Sub-Division : PSD, Kadapa**



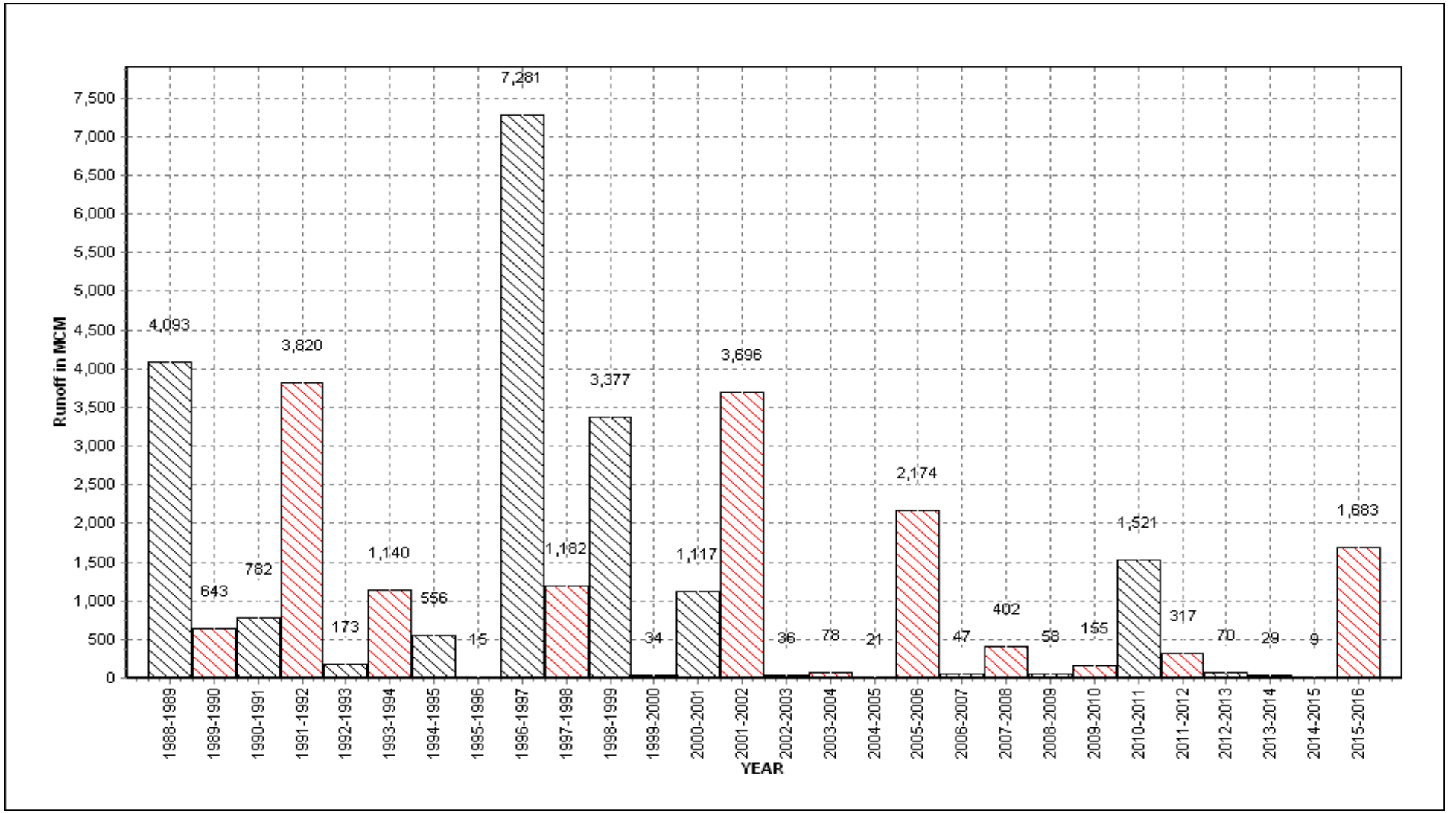
**Annual Runoff Values for the period: 1988 - 2016**

**Station Name : Nellore ( AP000A6)**

**Division : Hydrology Division, Chennai**

**Local River : Pennar**

**Sub-Division : PSD, Kadapa**

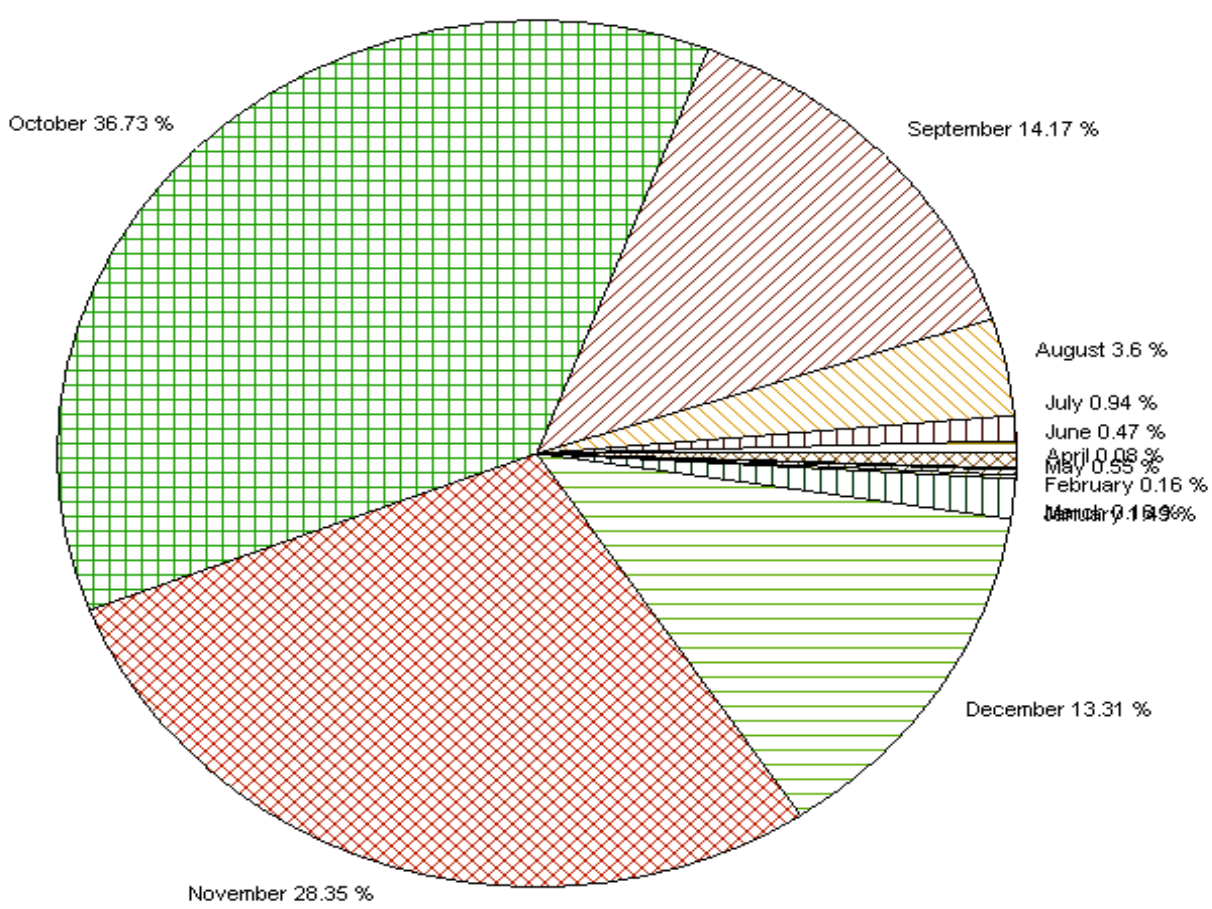



*Note: Missing values have not been considered while arriving at Annual Runoff*

**Monthly Average Runoff based on period : 1988-2015**

**Station Name : Nellore ( AP000A6)**
**Local River : Pennar**

**Division : Hydrology Division, Chennai**
**Sub-Division : PSD, Kadapa**



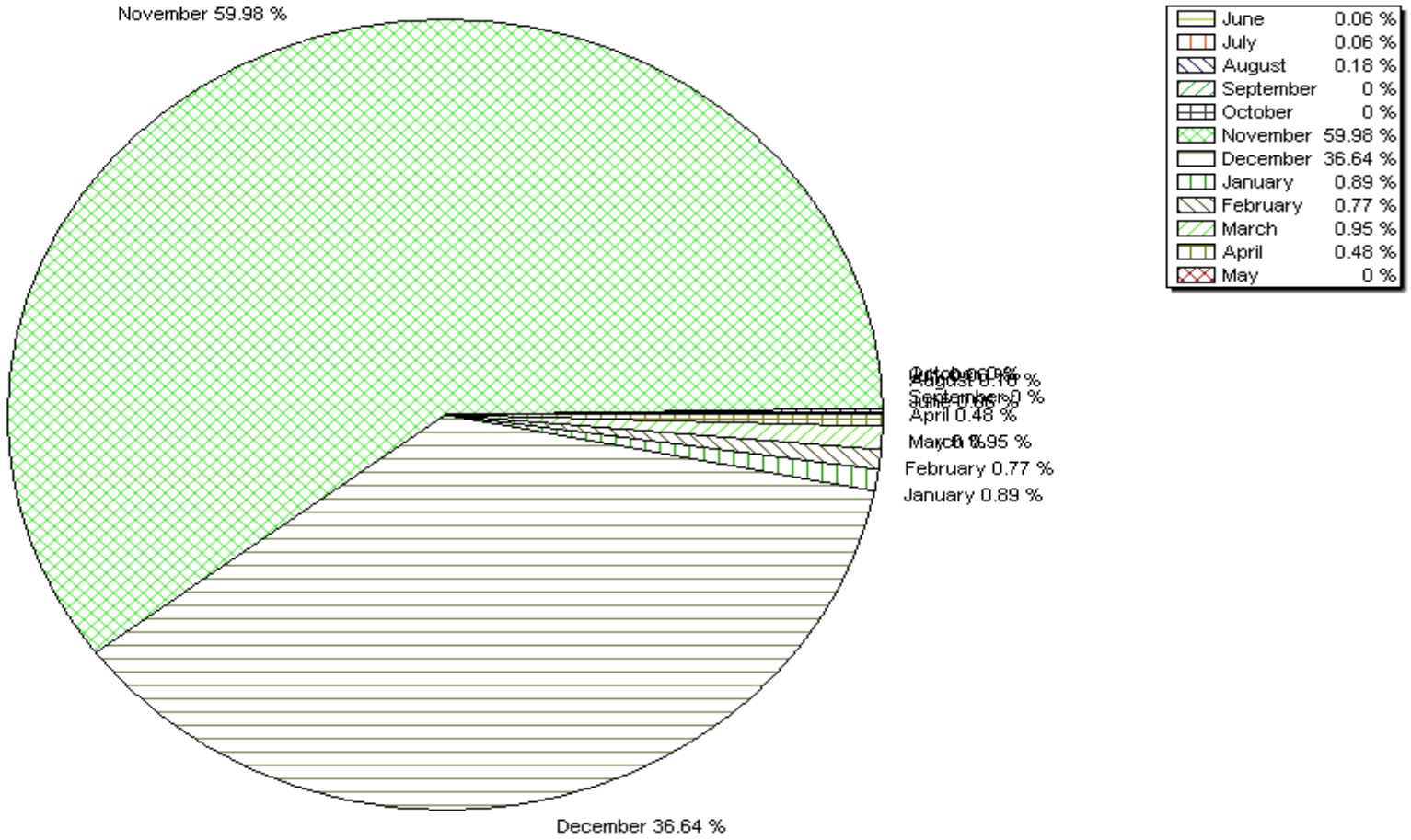
**Monthly Runoff for the Year : 2015-2016**

**Station Name : Nellore ( AP000A6)**

**Local River : Pennar**

**Division : Hydrology Division, Chennai**

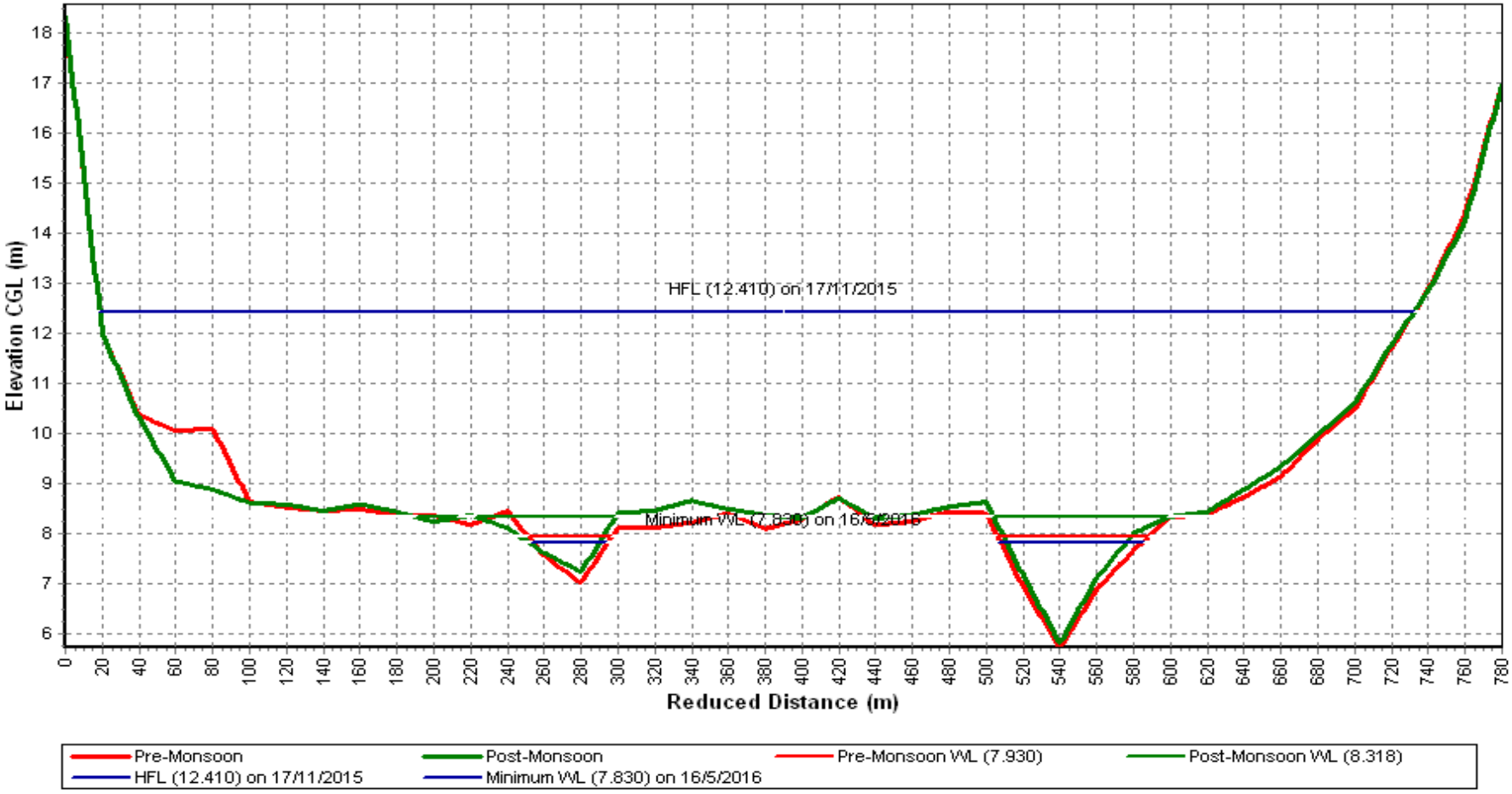
**Sub-Division : PSD, Kadapa**



**Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2015-2016**

**Station Name : Nellore ( AP000A6)**
**Local River : Pennar**

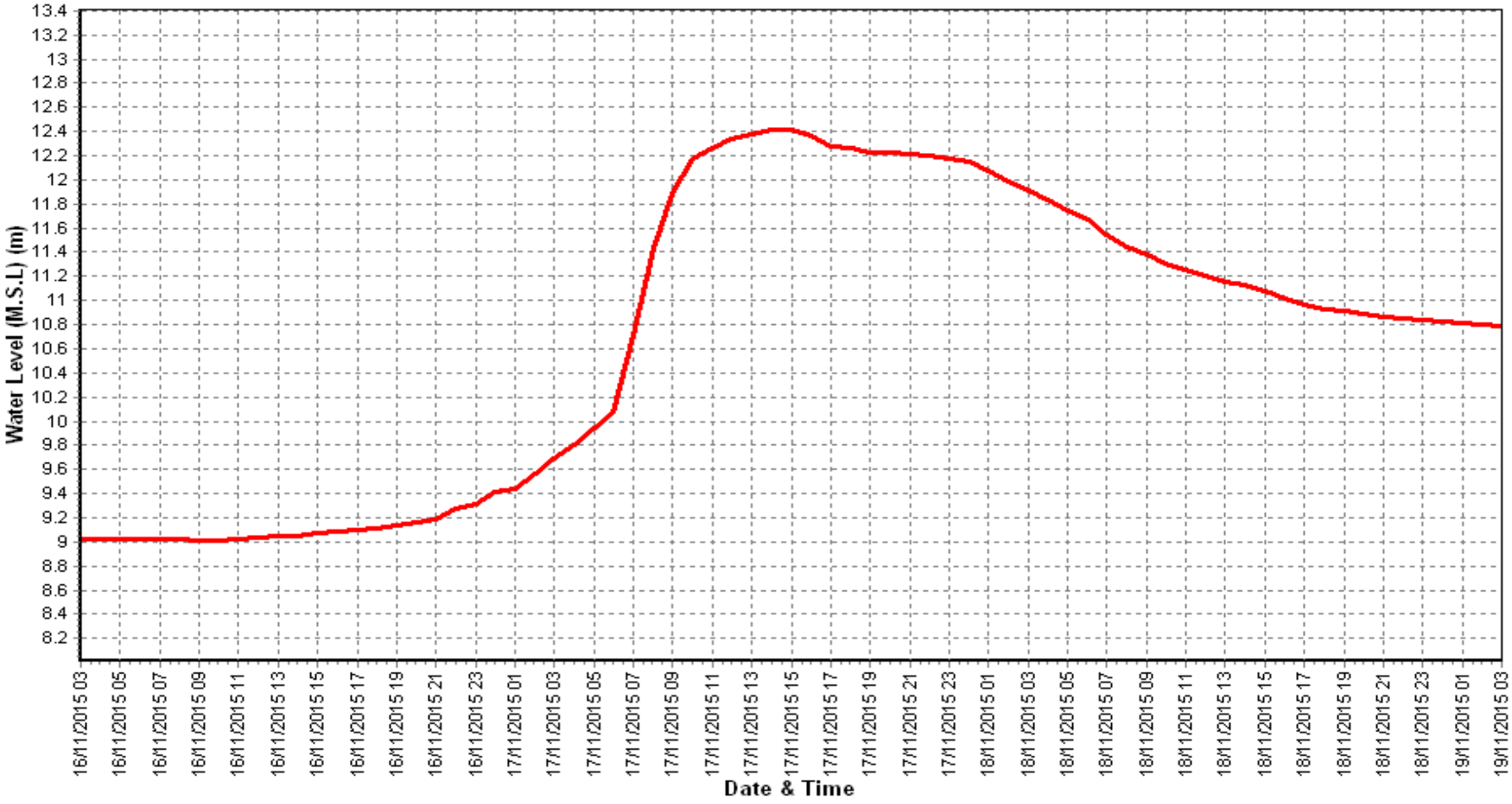
**Division : Hydrology Division, Chennai**
**Sub-Division : PSD, Kadapa**



**Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2015-2016**

**Station Name : Nellore ( AP000A6)** **Division : Hydrology Division, Chennai**

**Local River : Pennar** **Sub-Division : PSD, Kadapa**




Time Span: 72 Hrs

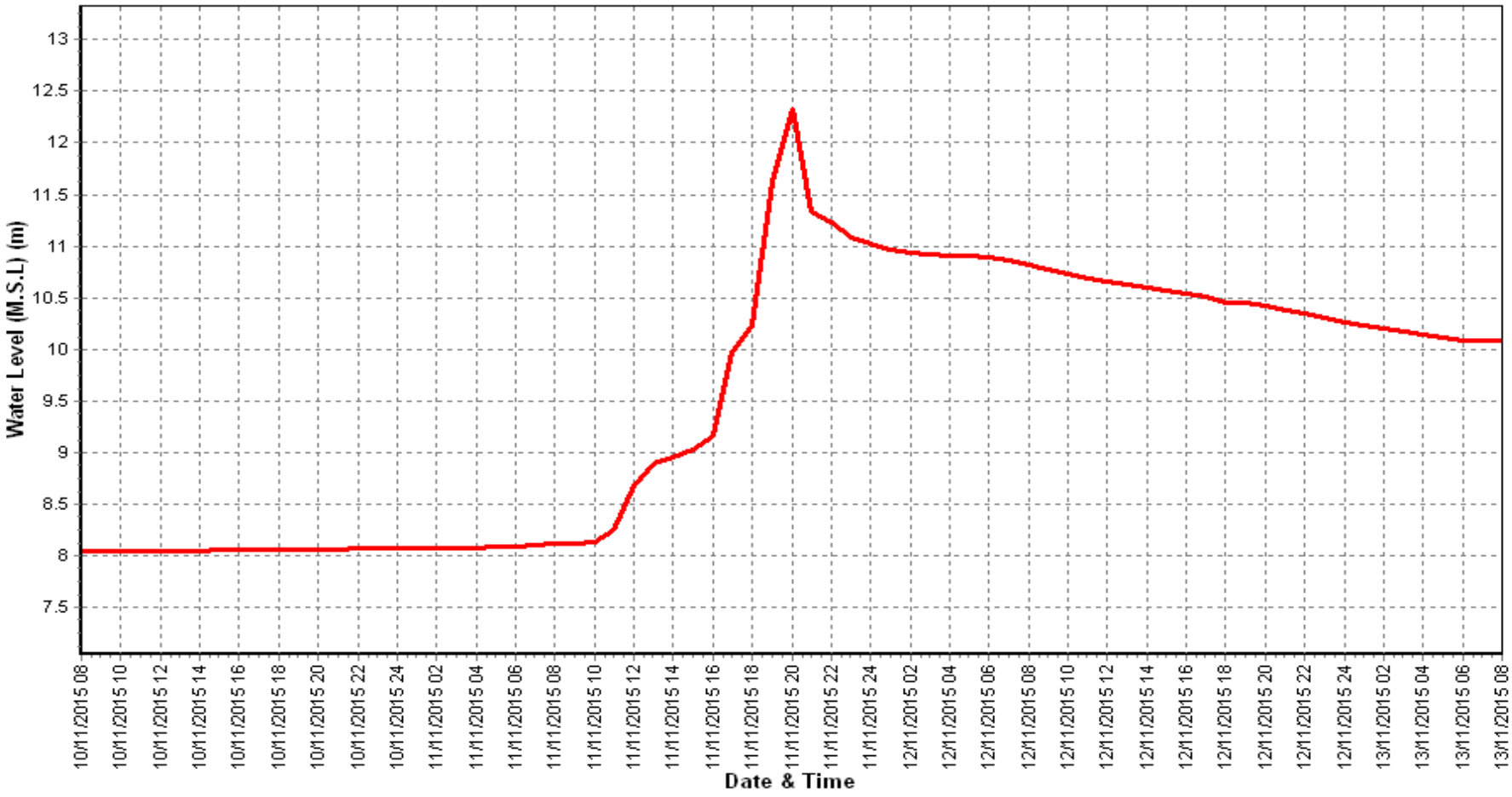
**Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2015-2016**

**Station Name : Nellore ( AP000A6)**

**Division : Hydrology Division, Chennai**

**Local River : Pennar**

**Sub-Division : PSD, Kadapa**

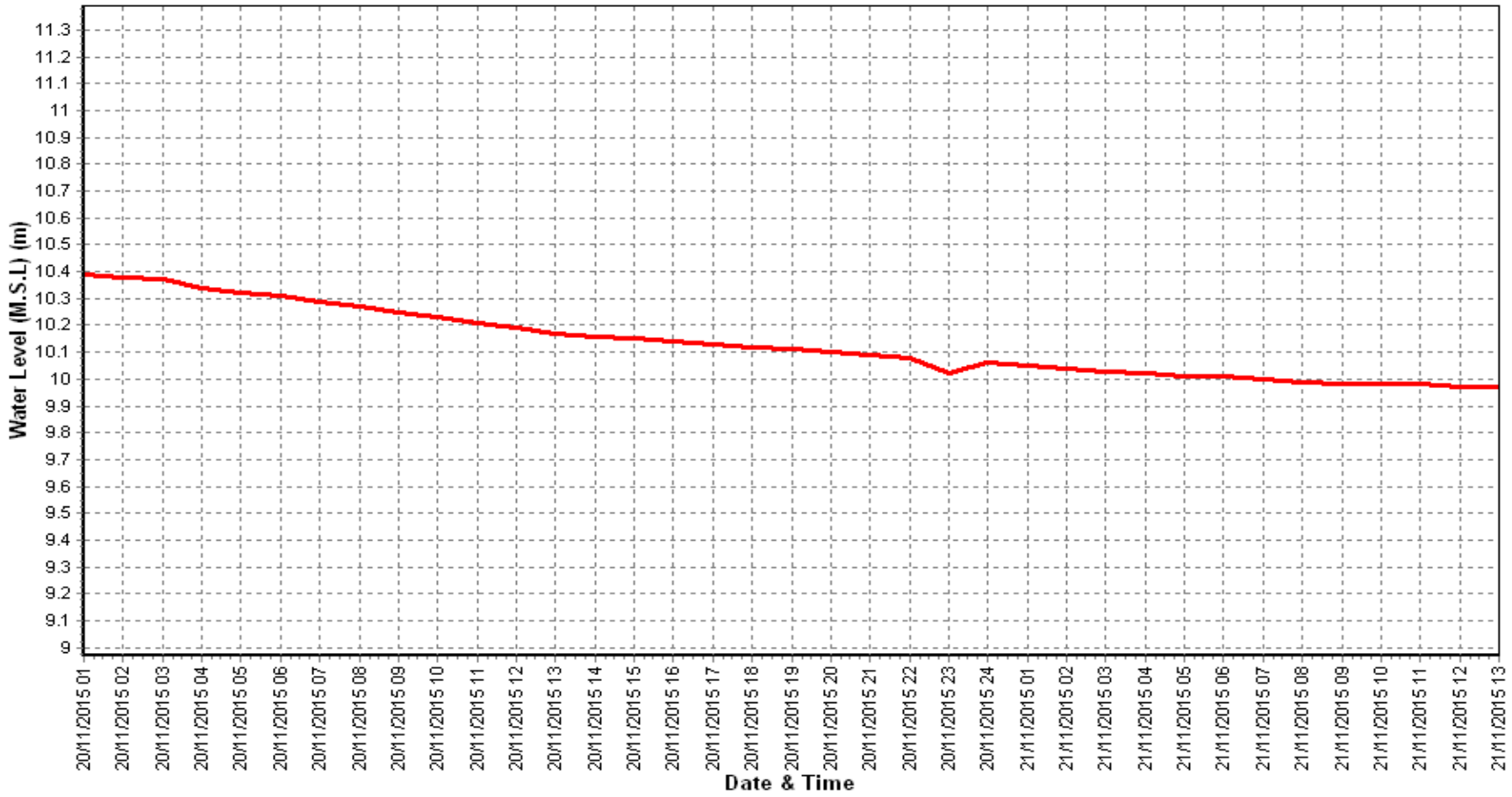



Time Span: 72 Hrs

**Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2015-2016**

**Station Name : Nellore ( AP000A6)** **Division : Hydrology Division, Chennai**

**Local River : Pennar** **Sub-Division : PSD, Kadapa**




Time Span: 72 Hrs

## HISTORY SHEET

**Water Year : 2015-2016**

| | | | | | |
|---|---|---|---|---|---|
| **Site** | **:** | **Nandipalli** | **Code** | **:** | **APC00G7** |
| State | : | Andhra Pradesh | District | | Kadapa |
| Basin | : | Pennar | Independent River | : | Pennar |
| Tributary | : | Sagileru | Sub Tributary | : | |
| Sub-Sub Tributary | : | | Local River | : | Sagileru |
| Division | : | Hydrology Division, Chennai | Sub-Division | : | Pennar SD, Kadapa |
| Drainage Area | : | 2486 Sq. Km. | Bank | : | Right |
| Latitude | : | 14°43'16" | Longitude | : | 79°01'08" |
| **Zero of Gauge (m)** | : | 95.000 (m.s.l) | 10/11/1989 | | |
| | | Opening Date | Closing Date | | |
| Gauge | : | 10/11/1989 | | | |
| Discharge | : | 18/06/1990 | | | |
| Sediment | : | 12/06/2013 | | | |
| Water Quality | : | 01/06/1994 | | | |

**Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)**

| | Maximum | | | Minimum | | |
|---|---|---|---|---|---|---|
| **Year** | **Q (cumecs)** | **WL (m)** | **Date** | **Q (cumecs)** | **WL (m)** | **Date** |
| 1990-1991 | 319.0 | 99.270 | 10/09/1990 | 0.000 | Dry Bed | 24/06/1990 |
| 1991-1992 | 258.9 | 99.730 | 18/11/1991 | 0.100 | 96.830 | 28/05/1992 |
| 1992-1993 | 13.78 | 97.481 | 16/11/1992 | 0.000 | 96.470 | 10/07/1992 |
| 1993-1994 | 132.6 | 98.406 | 12/11/1993 | 0.000 | Dry Bed | 01/06/1993 |
| 1994-1995 | 167.6 | 98.625 | 06/10/1994 | 0.000 | Dry Bed | 01/06/1994 |
| 1995-1996 | 95.74 | 98.160 | 31/08/1995 | 0.000 | Dry Bed | 01/06/1995 |
| 1996-1997 | 640.3 | 102.430 | 19/10/1996 | 0.000 | Dry Bed | 01/06/1996 |
| 1997-1998 | 10.55 | 97.810 | 10/08/1997 | 0.000 | Dry Bed | 01/06/1997 |
| 1998-1999 | 227.5 | 99.050 | 14/10/1998 | 0.000 | Dry Bed | 01/06/1998 |
| 1999-2000 | 5.159 | 96.900 | 07/10/1999 | 0.000 | Dry Bed | 01/06/1999 |
| 2000-2001 | 176.7 | 98.595 | 24/08/2000 | 0.000 | Dry Bed | 01/06/2000 |
| 2001-2002 | 1008 | 101.730 | 17/10/2001 | 0.000 | Dry Bed | 01/06/2001 |
| 2002-2003 | 12.80 | 97.165 | 11/06/2002 | 0.000 | Dry Bed | 01/06/2002 |
| 2003-2004 | 302.7 | 98.790 | 22/10/2003 | 0.000 | Dry Bed | 01/06/2003 |
| 2004-2005 | 5.414 | 96.820 | 05/10/2004 | 0.000 | Dry Bed | 01/06/2004 |
| 2005-2006 | 812.0 | 100.650 | 29/10/2005 | 0.000 | Dry Bed | 01/06/2005 |
| 2006-2007 | 10.91 | 97.270 | 07/11/2006 | 0.000 | 96.460 | 01/06/2006 |
| 2007-2008 | 1184 | 101.000 | 23/06/2007 | 0.000 | 96.110 | 01/06/2007 |
| 2008-2009 | 519.2 | 99.390 | 29/11/2008 | 0.000 | 96.440 | 09/06/2008 |

Q : Observed / Computed Discharge
WL : Corresponding Water Level(m.s.l)

**Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)**

| | Maximum | | | Minimum | | |
|---|---|---|---|---|---|---|
| **Year** | **Q (cumecs)** | **WL (m)** | **Date** | **Q (cumecs)** | **WL (m)** | **Date** |
| 2009-2010 | 99.19 | 98.010 | 09/11/2009 | 0.000 | 96.480 | 01/06/2009 |
| 2010-2011 | 329.9 | 98.800 | 08/12/2010 | 0.000 | 96.180 | 01/06/2010 |
| 2011-2012 | 112.0 | 98.200 | 28/11/2011 | 0.000 | 96.300 | 23/06/2011 |
| 2012-2013 | 12.45 | 97.260 | 23/10/2012 | 0.000 | 96.450 | 08/07/2012 |
| 2013-2014 | 591.5 | 99.930 | 24/10/2013 | 0.000 | 96.450 | 01/06/2013 |
| 2014-2015 | 2.001 | 96.585 | 28/10/2014 | 0.000 | 96.020 | 01/06/2014 |

Q : Observed / Computed Discharge
WL : Corresponding Water Level(m.s.l)

## Stage-Discharge Data for the period 2015 - 2016

**Station Name : Nandipalli ( APC00G7)** **Division : Hydrology Division, Chennai**

**Local River : Sagileru** **Sub-Division : PSD, Kadapa**

| Day | Jun | | Jul | | Aug | | Sep | | Oct | | Nov | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | W.L | Q | W.L | Q | W.L | Q | W.L | Q | W.L | Q | W.L | Q |
| 1 | | 0.000 | | 0.000 | | 0.000 | 96.200 | 0.000 | 95.950 | 0.000 | 95.270 | 0.000 |
| 2 | | 0.000 | | 0.000 | | 0.000 | 96.180 | 0.000 | 95.970 | 0.000 | 95.260 | 0.000 |
| 3 | | 0.000 | | 0.000 | | 0.000 | 96.160 | 0.000 | 96.140 | 0.000 | 95.250 | 0.000 |
| 4 | | 0.000 | | 0.000 | | 0.000 | 96.140 | 0.000 | 96.180 | 0.000 | 95.240 | 0.000 |
| 5 | | 0.000 | | 0.000 | | 0.000 | 96.140 | 0.000 | 96.170 | 0.000 | 95.240 | 0.000 |
| 6 | | 0.000 | | 0.000 | | 0.000 | 96.120 | 0.000 | 96.160 | 0.000 | 95.190 | 0.000 |
| 7 | | 0.000 | | 0.000 | | 0.000 | 96.170 | 0.000 | 96.140 | 0.000 | 95.150 | 0.000 |
| 8 | | 0.000 | | 0.000 | | 0.000 | 96.280 | 0.000 | 96.130 | 0.000 | 95.120 | 0.000 |
| 9 | | 0.000 | | 0.000 | | 0.000 | 96.350 | 0.000 | 96.120 | 0.000 | 95.110 | 0.000 |
| 10 | | 0.000 | | 0.000 | | 0.000 | 96.400 | 0.000 | 96.110 | 0.000 | 95.250 | 0.000 |
| 11 | | 0.000 | | 0.000 | | 0.000 | 96.360 | 0.000 | 96.090 | 0.000 | 95.900 | 0.000 |
| 12 | | 0.000 | | 0.000 | | 0.000 | 96.320 | 0.000 | 96.060 | 0.000 | 96.480 | 1.043 |
| 13 | | 0.000 | | 0.000 | | 0.000 | 96.290 | 0.000 | 96.020 | 0.000 | 96.360 | 0.000 |
| 14 | | 0.000 | | 0.000 | | 0.000 | 96.270 | 0.000 | 95.980 | 0.000 | 96.330 | 0.000 |
| 15 | | 0.000 | | 0.000 | | 0.000 | 96.260 | 0.000 | 95.940 | 0.000 | 96.310 | 0.000 |
| 16 | | 0.000 | | 0.000 | | 0.000 | 96.260 | 0.000 | 95.900 | 0.000 | 96.300 | 0.000 |
| 17 | | 0.000 | | 0.000 | | 0.000 | 96.250 | 0.000 | 95.860 | 0.000 | 97.980 | 136.3 |
| 18 | | 0.000 | | 0.000 | | 0.000 | 96.230 | 0.000 | 95.830 | 0.000 | 96.880 | 9.308 |
| 19 | | 0.000 | | 0.000 | | 0.000 | 96.210 | 0.000 | 95.790 | 0.000 | 96.690 | 5.095 |
| 20 | | 0.000 | | 0.000 | | 0.000 | 96.200 | 0.000 | 95.760 | 0.000 | 96.600 | 3.120 |
| 21 | | 0.000 | | 0.000 | 96.800 | 8.161 # | 96.190 | 0.000 | 95.730 | 0.000 | 96.720 | 6.664 |
| 22 | | 0.000 | | 0.000 | 96.680 | 4.494 # | 96.170 | 0.000 | 95.680 | 0.000 | 96.760 | 6.794 * |
| 23 | | 0.000 | | 0.000 | 96.500 | 1.223 * | 96.150 | 0.000 | 95.640 | 0.000 | 96.820 | 8.901 |
| 24 | | 0.000 | | 0.000 | 96.430 | 0.563 # | 96.130 | 0.000 | 95.600 | 0.000 | 96.615 | 2.970 |
| 25 | | 0.000 | | 0.000 | 96.390 | 0.000 | 96.110 | 0.000 | 95.560 | 0.000 | 96.560 | 2.044 * |
| 26 | | 0.000 | | 0.000 | 96.280 | 0.000 | 96.090 | 0.000 | 95.450 | 0.000 | 96.505 | 0.985 |
| 27 | | 0.000 | | 0.000 | 96.280 | 0.000 | 96.050 | 0.000 | 95.410 | 0.000 | 96.425 | 0.554 |
| 28 | | 0.000 | | 0.000 | 96.270 | 0.000 | 96.010 | 0.000 | 95.370 | 0.000 | 96.410 | 0.000 |
| 29 | | 0.000 | | 0.000 | 96.250 | 0.000 | 96.000 | 0.000 | 95.330 | 0.000 | 96.390 | 0.000 |
| 30 | | 0.000 | | 0.000 | 96.240 | 0.000 | 95.970 | 0.000 | 95.290 | 0.000 | 96.390 | 0.000 |
| 31 | | | | 0.000 | 96.220 | 0.000 | | | 95.280 | 0.000 | | |
| **Ten-Daily Mean** | | | | | | | | | | | | |
| I Ten-Daily | | 0.000 | | 0.000 | | 0.000 | 96.214 | 0.000 | 96.107 | 0.000 | 95.208 | 0.000 |
| II Ten-Daily | | 0.000 | | 0.000 | | 0.000 | 96.265 | 0.000 | 95.923 | 0.000 | 96.583 | 15.49 |
| III Ten-Daily | | 0.000 | | 0.000 | 96.395 | 1.313 | 96.087 | 0.000 | 95.485 | 0.000 | 96.559 | 2.891 |
| **Monthly** | | | | | | | | | | | | |
| Min. | | 0.000 | | 0.000 | 96.220 | 0.000 | 95.970 | 0.000 | 95.280 | 0.000 | 95.110 | 0.000 |
| Max. | | 0.000 | | 0.000 | 96.800 | 8.161 | 96.400 | 0.000 | 96.180 | 0.000 | 97.980 | 136.3 |
| Mean | | 0 | | 0 | 96.395 | 0.466 | 96.189 | 0 | 95.827 | 0 | 96.117 | 6.127 |

**Annual Runoff in MCM = 18 Annual Runoff in mm = 7**

**Peak Observed Discharge = 136.3 cumecs on 17/11/2015 Corres. Water Level :97.98 m**

**Lowest Observed Discharge = 0.000 cumecs on 01/06/2015**

Q: Observed/Computed Discharge in cumecs

WL:Corresponding Mean Water Level(m.s.l) in m

*:Computed Discharge

#:Discarded Discharge (values changed as per rating curve)

*Note:Missing values ignored while arriving at Annual Runoff*

## Stage-Discharge Data for the period 2015 - 2016

**Station Name : Nandipalli ( APC00G7)** **Division : Hydrology Division, Chennai**

**Local River : Sagileru** **Sub-Division : PSD, Kadapa**

| Day | Dec | | Jan | | Feb | | Mar | | Apr | | May | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | W.L | Q | WL | Q | WL | Q | WL | Q | WL | Q | WL | Q |
| 1 | 96.435 | 1.041 | 96.230 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 2 | 96.440 | 0.987 | 96.170 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 3 | 96.420 | 0.767 | 96.120 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 4 | 96.410 | 0.555 | 96.070 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 5 | 96.390 | 0.394 | 96.070 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 6 | 96.370 | 0.322 * | 96.050 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 7 | 96.350 | 0.222 | 96.040 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 8 | 96.340 | 0.000 | 96.000 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 9 | 96.330 | 0.000 | 95.930 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 10 | 96.330 | 0.000 | 95.830 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 11 | 96.330 | 0.000 | 95.790 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 12 | 96.320 | 0.000 | 95.700 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 13 | 96.320 | 0.000 | 95.630 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 14 | 96.320 | 0.000 | 95.560 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 15 | 96.320 | 0.000 | 95.510 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 16 | 96.340 | 0.000 | 95.450 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 17 | 96.340 | 0.000 | 95.420 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 18 | 96.330 | 0.000 | 95.340 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 19 | 96.330 | 0.000 | 95.290 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 20 | 96.330 | 0.000 | 95.230 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 21 | 96.330 | 0.000 | 95.200 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 22 | 96.330 | 0.000 | 95.200 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 23 | 96.320 | 0.000 | 95.180 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 24 | 96.300 | 0.000 | 95.150 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 25 | 96.300 | 0.000 | 95.150 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 26 | 96.290 | 0.000 | 95.150 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 27 | 96.280 | 0.000 | 95.050 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 28 | 96.260 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 29 | 96.260 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 30 | 96.250 | 0.000 | | 0.000 | | | | 0.000 | | 0.000 | | 0.000 |
| 31 | 96.250 | 0.000 | | 0.000 | | | | 0.000 | | | | 0.000 |
| **Ten-Daily Mean** | | | | | | | | | | | | |
| I Ten-Daily | 96.381 | 0.429 | 96.051 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| II Ten-Daily | 96.328 | 0.000 | 95.492 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| III Ten-Daily | 96.288 | 0.000 | 95.154 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| **Monthly** | | | | | | | | | | | | |
| Min. | 96.250 | 0.000 | 95.050 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| Max. | 96.440 | 1.041 | 96.230 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| Mean | 96.331 | 0.138 | 95.611 | 0 | | 0 | | 0 | | 0 | | 0 |

**Peak Computed Discharge = 6.794 cumecs on 22/11/2015 Corres. Water Level :96.76 m**

**Lowest Computed Discharge = 0.322 cumecs on 06/12/2015 Corres. Water Level :96.37 m**

Q: Observed/Computed Discharge in cumecs

WL:Corresponding Mean Water Level(m.s.l) in m

*:Computed Discharge

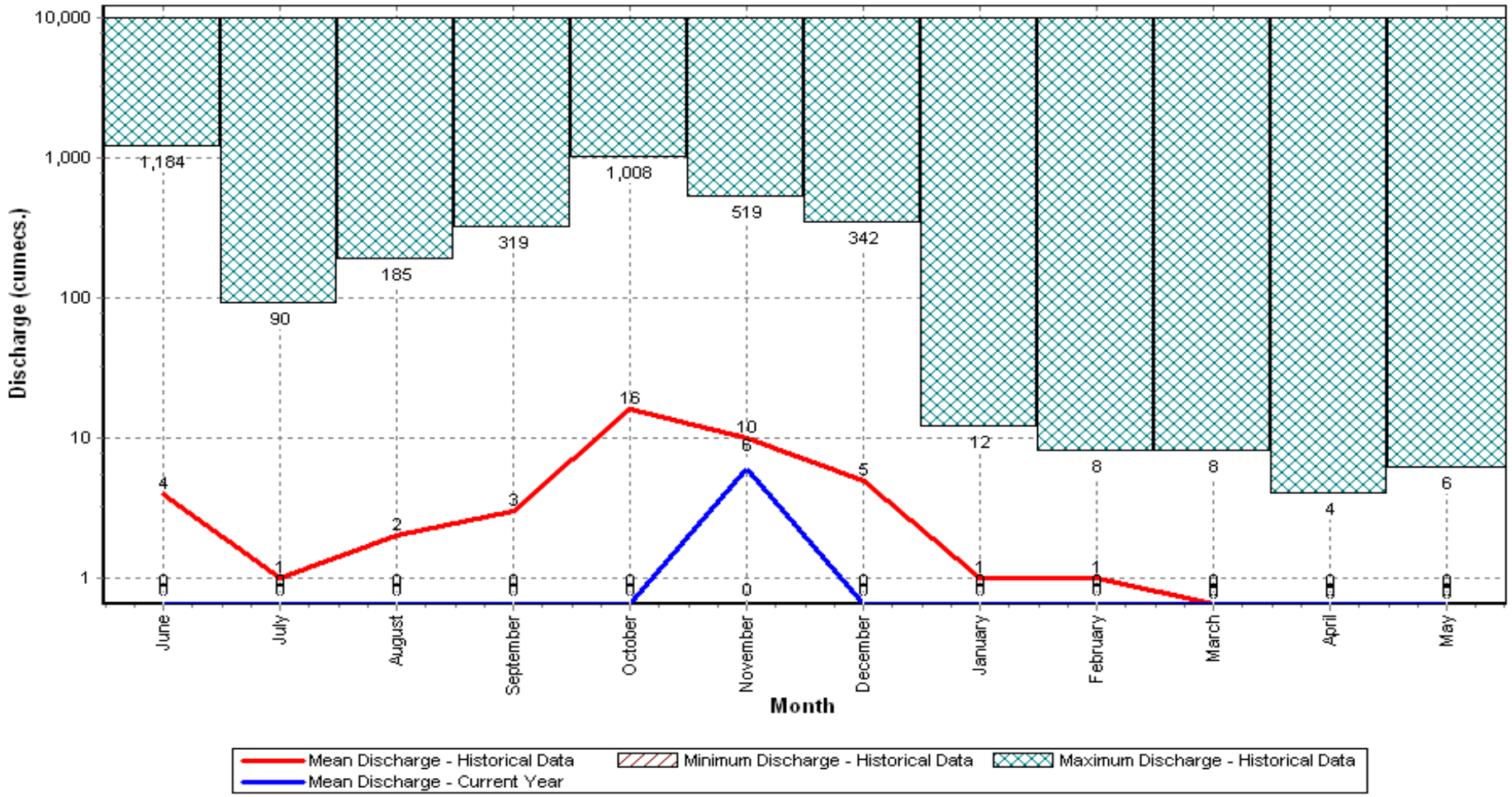
#:Discarded Discharge (values changed as per rating curve)

*Note:Missing values ignored while arriving at Annual Runoff*

**HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016**

**Station Name : Nandipalli ( APC00G7)** | **Data considered : 1990-2016** | **Division : Hydrology Division, Chennai**

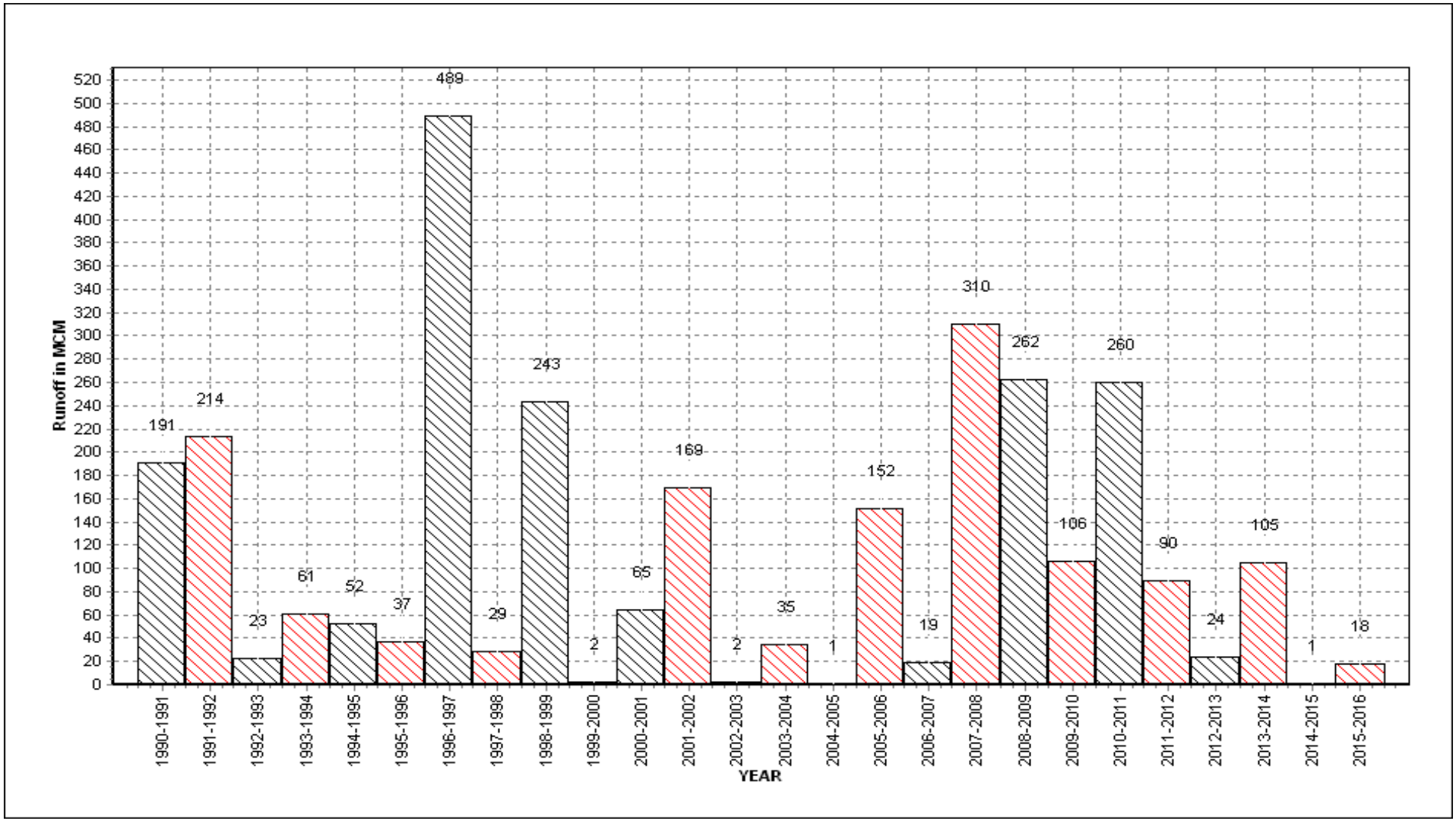
**Local River : Sagileru** | **Sub-Division : PSD, Kadapa**


Discharge (cumecs.)
10,000
1,000
100
10
1
1,184
90
185
319
1,008
519
342
12
8
8
4
6
16
10
6
5
4
3
2
1
1
1
0
0
0

**Annual Runoff Values for the period: 1990 - 2016**

**Station Name : Nandipalli ( APC00G7)** **Division : Hydrology Division, Chennai**

**Local River : Sagileru** **Sub-Division : PSD, Kadapa**




*Note: Missing values have not been considered while arriving at Annual Runoff*

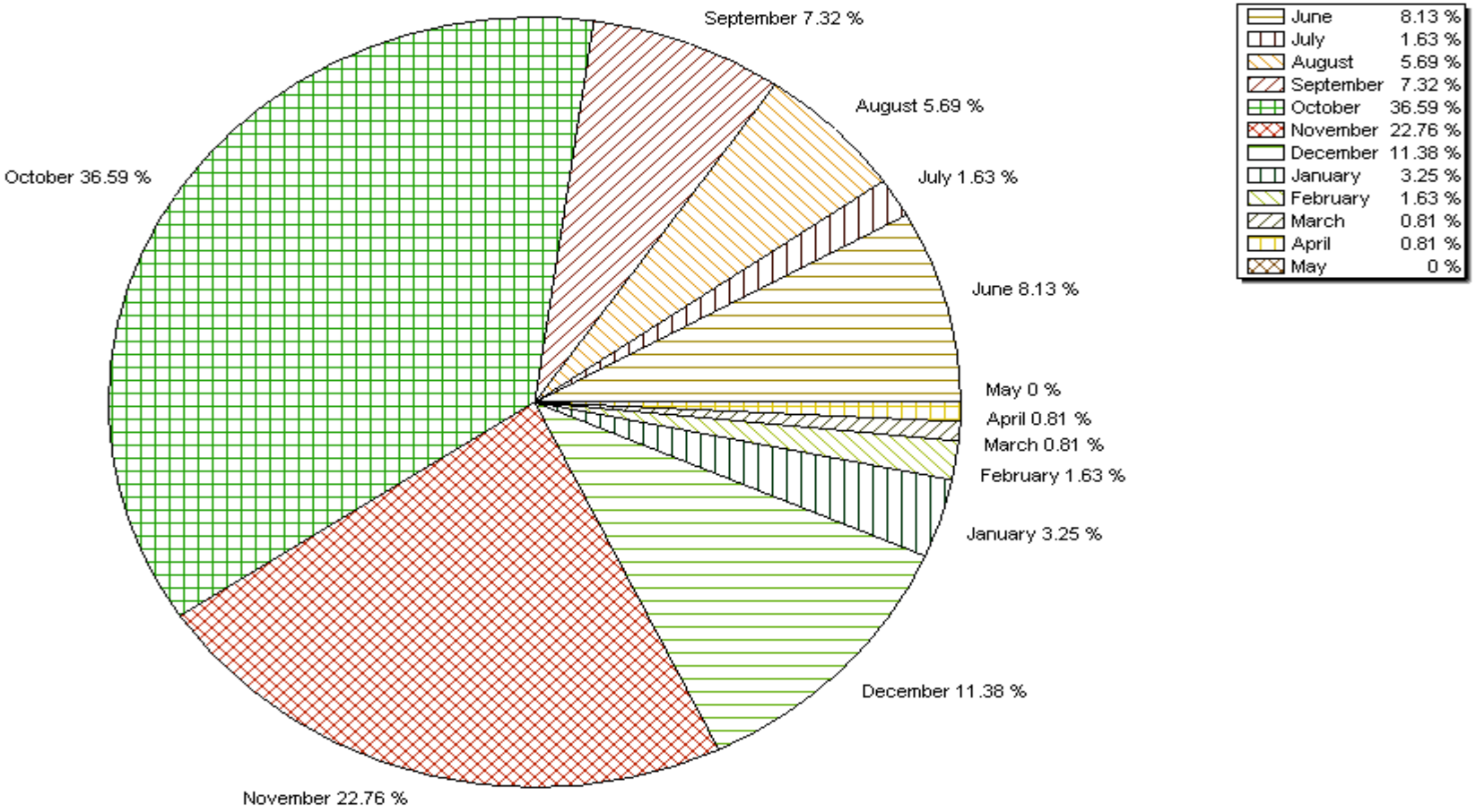
**Monthly Average Runoff based on period : 1990-2015**

**Station Name : Nandipalli ( APC00G7)**

**Local River : Sagileru**

**Division : Hydrology Division, Chennai**

**Sub-Division : PSD, Kadapa**



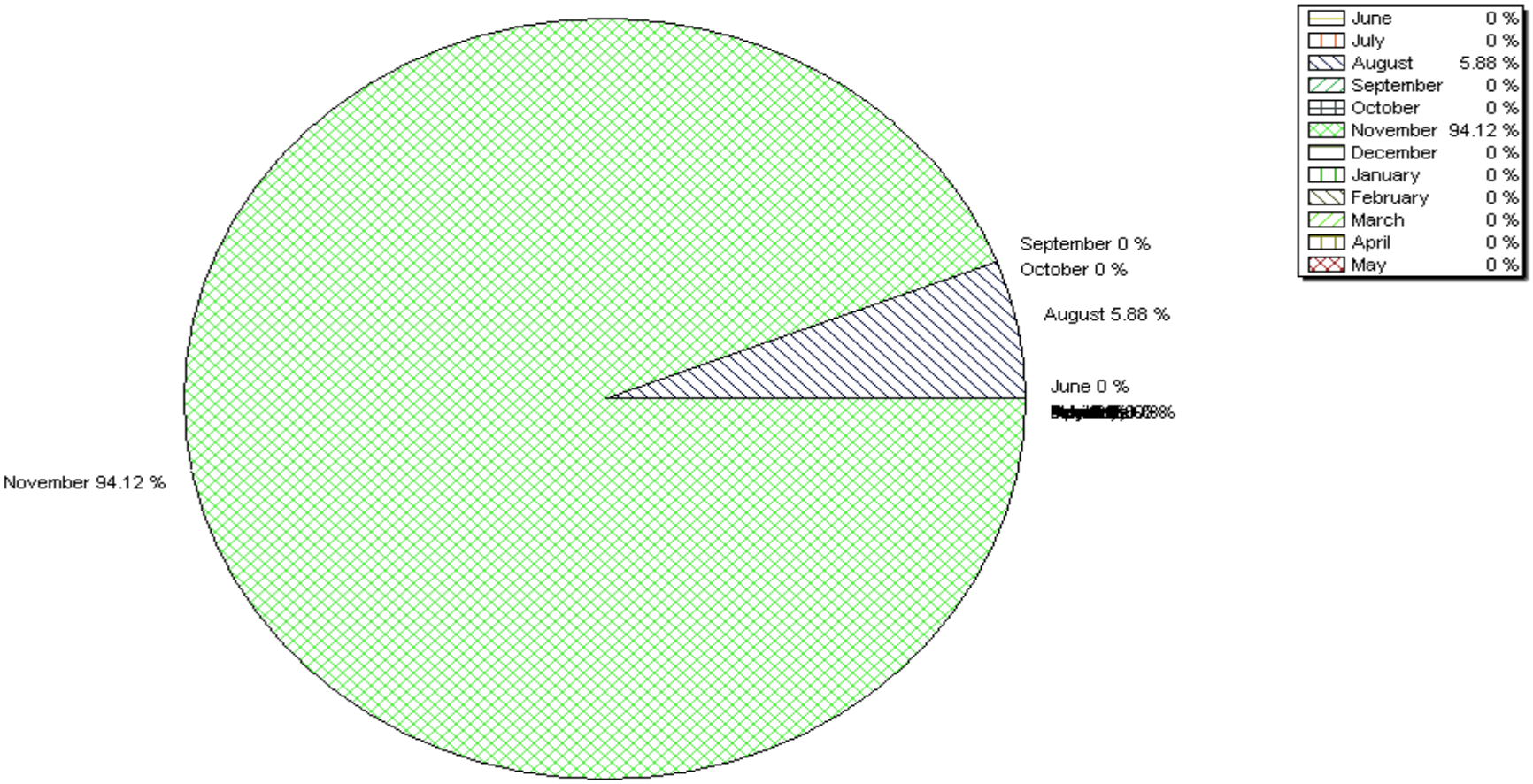
**Monthly Runoff for the Year : 2015-2016**

**Station Name : Nandipalli ( APC00G7)**

**Division : Hydrology Division, Chennai**

**Local River : Sagileru**

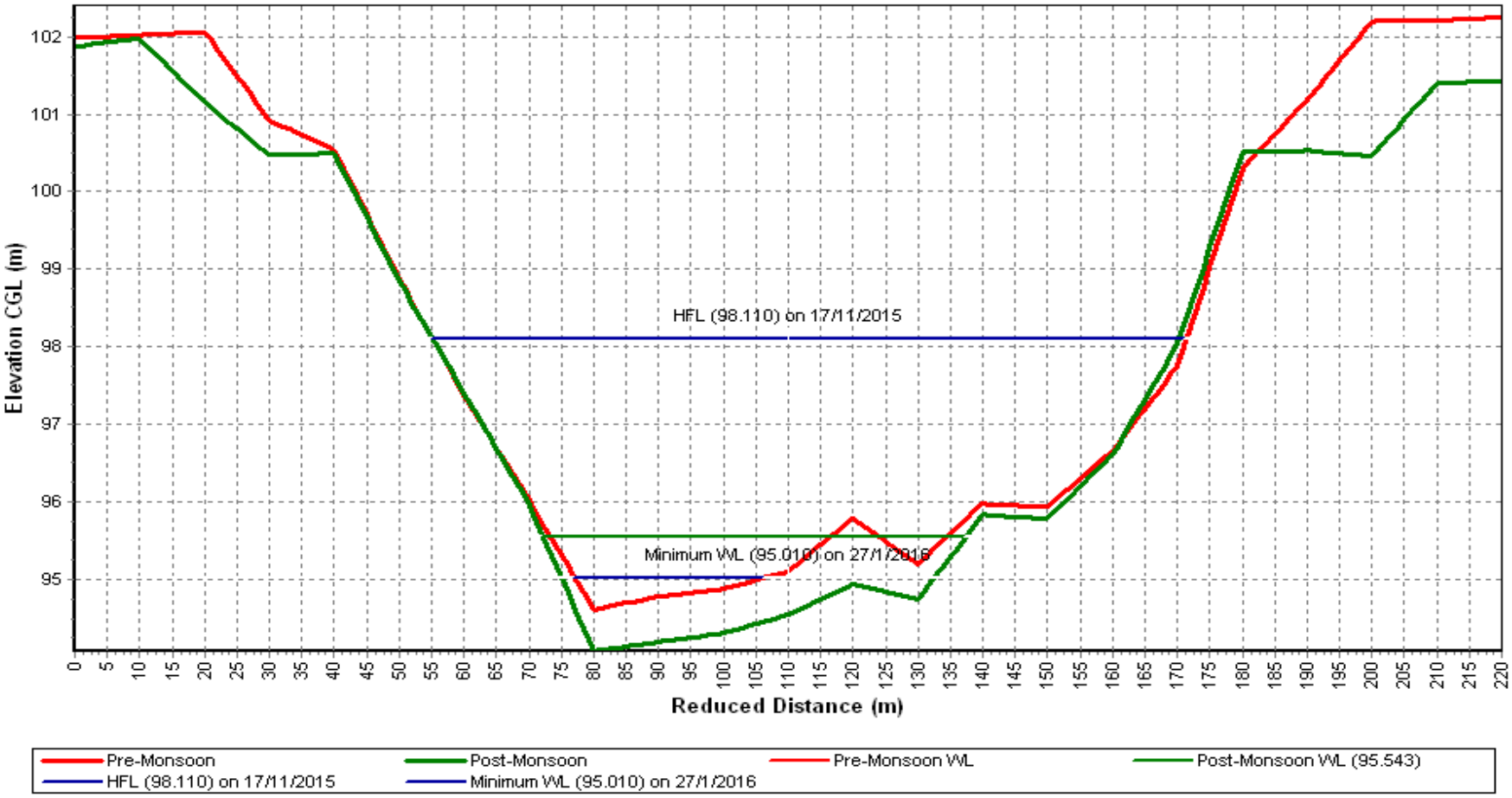
**Sub-Division : PSD, Kadapa**



**Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2015-2016**

**Station Name : Nandipalli ( APC00G7)** **Division : Hydrology Division, Chennai**

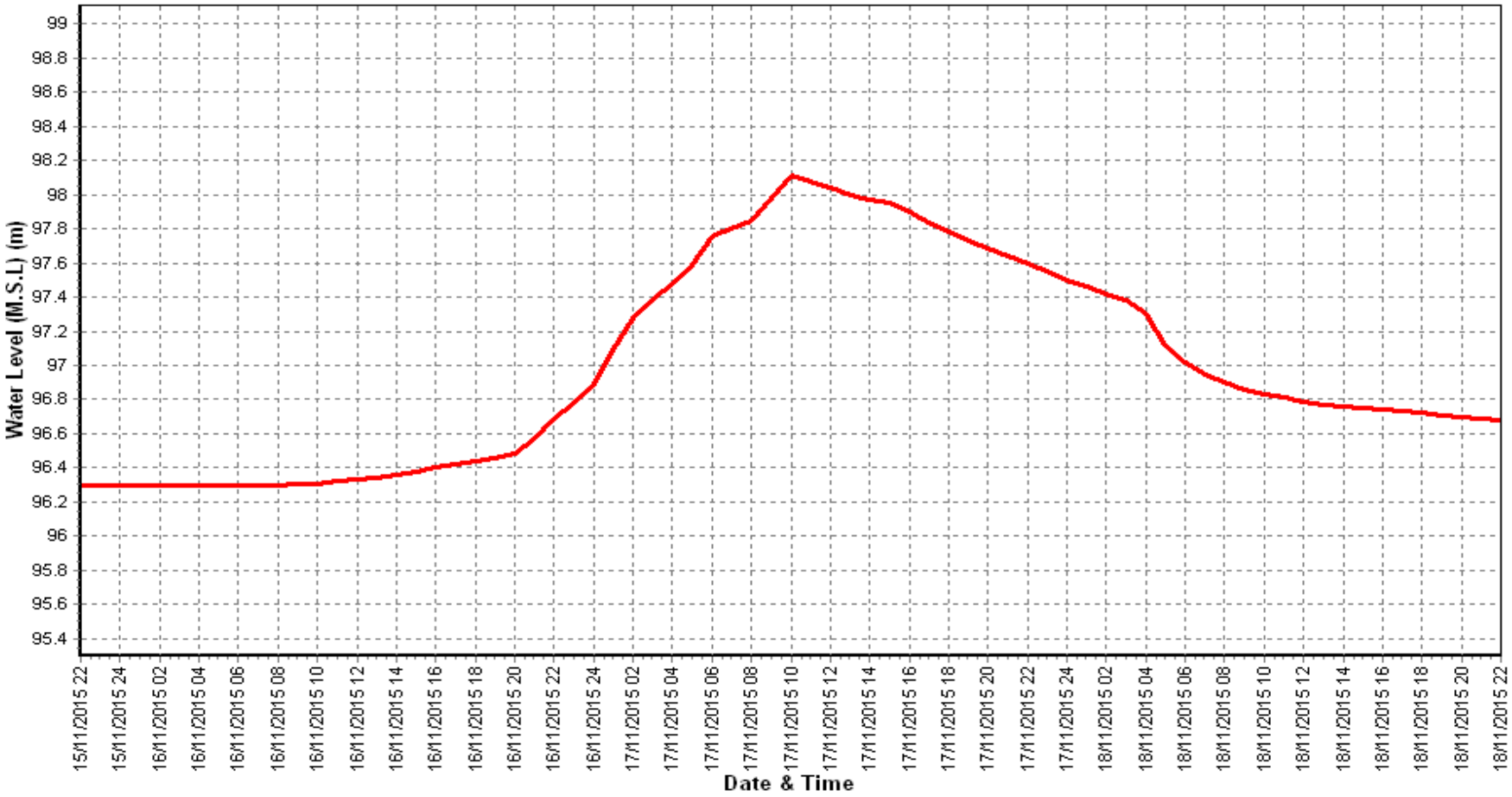
**Local River : Sagileru** **Sub-Division : PSD, Kadapa**



**Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2015-2016**

**Station Name : Nandipalli ( APC00G7)** **Division : Hydrology Division, Chennai**

**Local River : Sagileru** **Sub-Division : PSD, Kadapa**

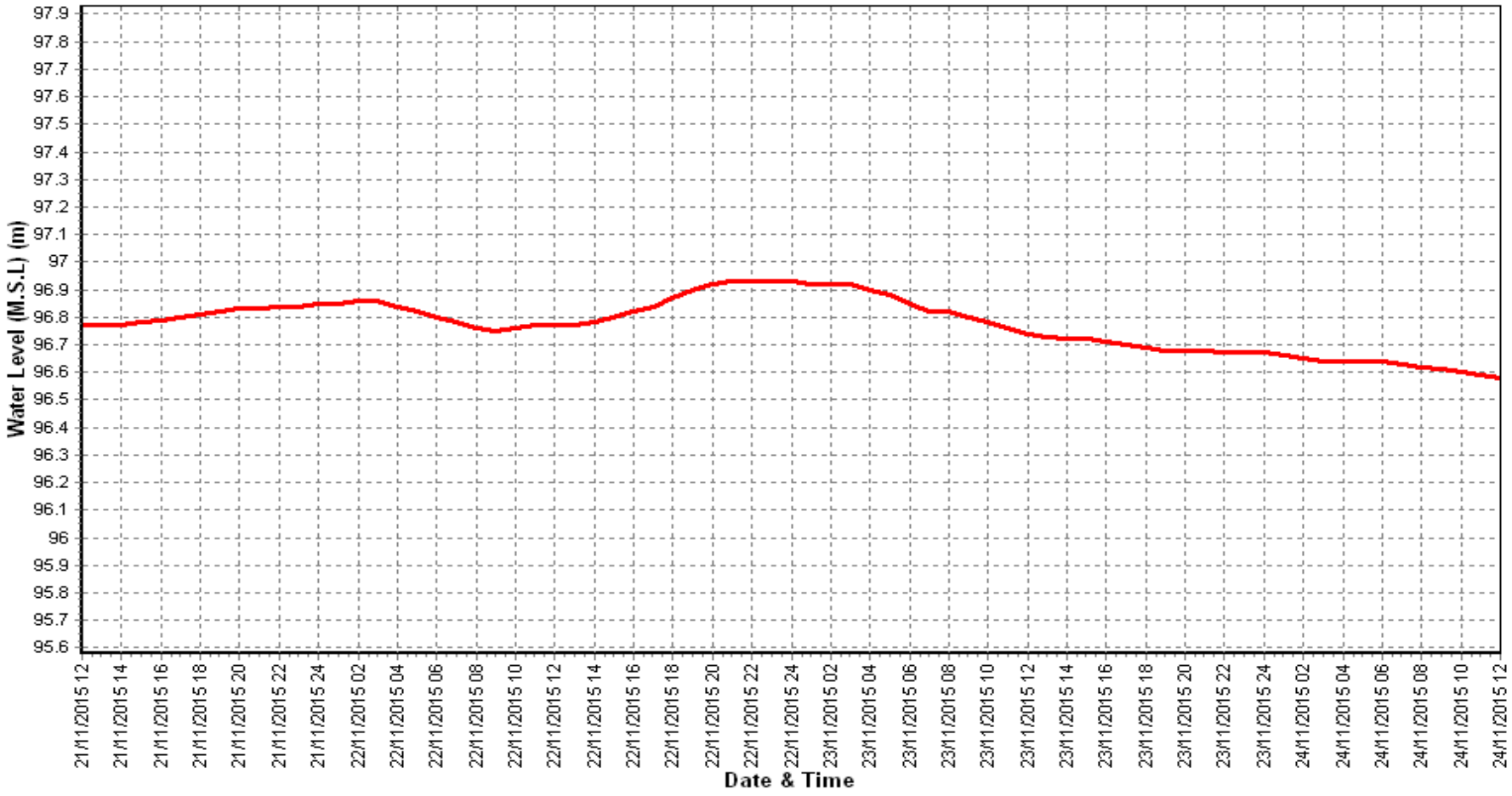



Time Span: 72 Hrs

**Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2015-2016**

**Station Name : Nandipalli ( APC00G7)** **Division : Hydrology Division, Chennai**

**Local River : Sagileru** **Sub-Division : PSD, Kadapa**



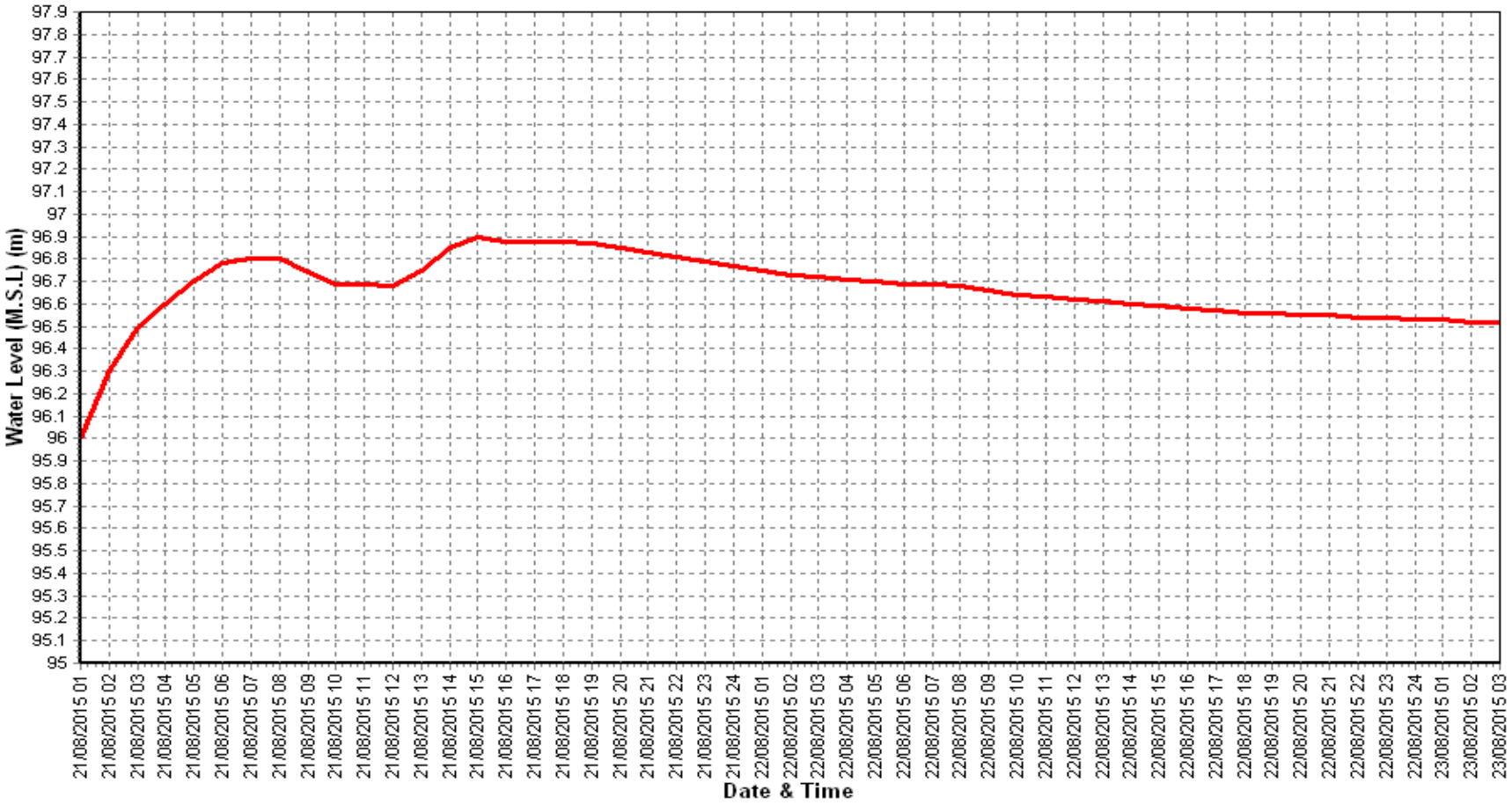



Time Span: 72 Hrs

**Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2015-2016**

**Station Name : Nandipalli ( APC00G7)** **Division : Hydrology Division, Chennai**

**Local River : Sagileru** **Sub-Division : PSD, Kadapa**




Time Span: 72 Hrs

## HISTORY SHEET

**Water Year : 2015-2016**

| | | | | | |
|---|---|---|---|---|---|
| **Site** | **: Chennur** | | **Code** | **: AP000I1** | |
| State | : Andhra Pradesh | | District | Kadapa | |
| Basin | : Pennar | | Independent River | : Pennar | |
| Tributary | : - | | Sub Tributary | : | |
| Sub-Sub Tributary | : | | Local River | : Pennar | |
| Division | : Hydrology Division, Chennai | | Sub-Division | : Pennar SD, Kadapa | |
| Drainage Area | : 37981 Sq. Km. | | Bank | : Right | |
| Latitude | : 14°34'20" | | Longitude | : 78°48'00" | |
| **Zero of Gauge (m)** | : 111.000 (m.s.l)<br>115.805 (m.s.l) | | 13/07/1989<br>01/06/1992 | - 31/05/1992 | |
| | Opening Date | | Closing Date | | |
| Gauge | : 13/07/1989 | | | | |
| Discharge | : 13/07/1989 | | | | |
| Sediment | : 08/08/1989 | | | | |
| Water Quality | : 01/09/1989 | | | | |

**Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)**

| | Maximum | | | Minimum | | |
|---|---|---|---|---|---|---|
| **Year** | **Q (cumecs)** | **WL (m)** | **Date** | **Q (cumecs)** | **WL (m)** | **Date** |
| 1990-1991 | 1681 | 115.988 | 04/10/1990 | 0.000 | 112.530 | 03/08/1990 |
| 1991-1992 | 1296 | 115.193 | 01/11/1991 | 0.000 | 112.801 | 03/06/1991 |
| 1992-1993 | 226.7 | 118.714 | 15/07/1992 | 0.000 | 117.349 | 11/06/1992 |
| 1993-1994 | 892.5 | 119.468 | 26/07/1993 | 0.000 | Dry Bed | 20/06/1993 |
| 1994-1995 | 2237 | 120.540 | 08/10/1994 | 0.000 | Dry Bed | 01/06/1994 |
| 1995-1996 | 848.1 | 119.385 | 29/07/1995 | 0.000 | Dry Bed | 01/06/1995 |
| 1996-1997 | 4175 | 121.955 | 21/10/1996 | 0.000 | Dry Bed | 01/06/1996 |
| 1997-1998 | 1359 | 120.025 | 02/10/1997 | 0.000 | Dry Bed | 10/07/1997 |
| 1998-1999 | 2230 | 120.585 | 15/10/1998 | 0.000 | Dry Bed | 14/07/1998 |
| 1999-2000 | 398.7 | 118.860 | 27/08/1999 | 0.000 | Dry Bed | 26/07/1999 |
| 2000-2001 | 6718 | 123.375 | 24/08/2000 | 0.000 | Dry Bed | 20/03/2001 |
| 2001-2002 | 5196 | 122.345 | 18/10/2001 | 0.000 | Dry Bed | 01/06/2001 |
| 2002-2003 | 882.2 | 119.290 | 16/10/2002 | 0.000 | Dry Bed | 01/06/2002 |
| 2003-2004 | 1419 | 119.855 | 23/10/2003 | 0.000 | Dry Bed | 01/06/2003 |
| 2004-2005 | 780.2 | 119.210 | 07/10/2004 | 0.000 | 117.215 | 20/02/2005 |
| 2005-2006 | 1679 | 120.245 | 29/10/2005 | 0.000 | Dry Bed | 01/06/2005 |
| 2006-2007 | 1486 | 119.755 | 17/09/2006 | 0.000 | 117.105 | 11/07/2006 |
| 2007-2008 | 3954 | 121.445 | 24/06/2007 | 0.000 | 117.095 | 04/06/2007 |

Q : Observed / Computed Discharge
WL : Corresponding Water Level(m.s.l)

**Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)**

| | Maximum | | | Minimum | | |
|---|---|---|---|---|---|---|
| **Year** | **Q (cumecs)** | **WL (m)** | **Date** | **Q (cumecs)** | **WL (m)** | **Date** |
| 2008-2009 | 833.6 | 118.805 | 09/09/2008 | 0.000 | 116.855 | 23/06/2008 |
| 2009-2010 | 4330 | 121.055 | 06/10/2009 | 0.000 | 116.875 | 09/07/2009 |
| 2010-2011 | 915.7 | 118.805 | 27/08/2010 | 1.362 | 116.925 | 06/07/2010 |
| 2011-2012 | 1128 | 119.105 | 22/08/2011 | 0.000 | 116.625 | 28/03/2012 |
| 2012-2013 | 494.8 | 118.415 | 05/09/2012 | 0.000 | 116.765 | 03/06/2012 |
| 2013-2014 | 1136 | 119.105 | 25/10/2013 | 0.000 | 116.655 | 01/06/2013 |
| 2014-2015 | 956.9 | 118.815 | 19/09/2014 | 0.000 | 116.235 | 03/07/2014 |

Q : Observed / Computed Discharge
WL : Corresponding Water Level(m.s.l)

## Stage-Discharge Data for the period 2015 - 2016

**Station Name : Chennur ( AP000I1)** **Division : Hydrology Division, Chennai**

**Local River : Pennar** **Sub-Division : PSD, Kadapa**

| Day | Jun | | Jul | | Aug | | Sep | | Oct | | Nov | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | W.L | Q | W.L | Q | W.L | Q | W.L | Q | W.L | Q | W.L | Q |
| 1 | 116.205 | 0.000 | 116.125 | 0.000 | | 0.000 | | 0.000 | 116.855 | 41.22 | 116.005 | 0.000 |
| 2 | 116.195 | 0.000 | | 0.000 | | 0.000 | | 0.000 | 116.705 | 21.77 * | | 0.000 |
| 3 | 116.195 | 0.000 | | 0.000 | | 0.000 | | 0.000 | 116.645 | 19.26 | | 0.000 |
| 4 | 116.205 | 0.000 | | 0.000 | | 0.000 | | 0.000 | 117.955 | 388.6 * | | 0.000 |
| 5 | 116.215 | 0.000 | | 0.000 | | 0.000 | | 0.000 | 117.395 | 156.5 | | 0.000 |
| 6 | 116.225 | 0.000 | | 0.000 | | 0.000 | | 0.000 | 117.145 | 65.09 | | 0.000 |
| 7 | 116.225 | 0.000 | | 0.000 | | 0.000 | | 0.000 | 116.855 | 41.92 | | 0.000 |
| 8 | 116.225 | 0.000 | | 0.000 | | 0.000 | 116.115 | 0.000 | 117.260 | 145.1 | | 0.000 |
| 9 | 116.225 | 0.000 | | 0.000 | | 0.000 | 116.145 | 0.000 | 117.795 | 302.2 | | 0.000 |
| 10 | 116.235 | 0.000 | | 0.000 | | 0.000 | 116.645 | 15.05 | 117.305 | 152.3 | | 0.000 |
| 11 | 116.235 | 0.000 | | 0.000 | | 0.000 | 117.305 | 100.8 | 117.045 | 70.45 * | | 0.000 |
| 12 | 116.240 | 0.000 | | 0.000 | | 0.000 | 117.555 | 195.1 | 116.985 | 61.53 | 116.255 | 0.000 |
| 13 | 116.240 | 0.000 | | 0.000 | | 0.000 | 117.305 | 131.3 * | 116.855 | 40.42 | 116.255 | 0.000 |
| 14 | 116.245 | 0.000 | | 0.000 | | 0.000 | 117.185 | 75.33 | 116.770 | 32.89 | 116.250 | 0.000 |
| 15 | 116.455 | 3.915 | | 0.000 | | 0.000 | 116.865 | 42.28 | 116.705 | 20.72 | 116.245 | 0.000 |
| 16 | 116.443 | 3.252 | | 0.000 | | 0.000 | 116.805 | 38.22 | 116.625 | 16.58 | 116.245 | 0.000 |
| 17 | 116.410 | 2.460 | | 0.000 | | 0.000 | 116.885 | 43.48 * | 116.505 | 7.155 # | 117.845 | 316.9 |
| 18 | 116.378 | 2.010 | | 0.000 | | 0.000 | 116.745 | 24.94 | 116.505 | 7.155 * | 117.755 | 294.3 |
| 19 | 116.355 | 1.904 | | 0.000 | | 0.000 | 116.650 | 18.86 | 116.330 | 1.257 # | 117.280 | 148.8 |
| 20 | 116.355 | 1.819 | | 0.000 | | 0.000 | 116.645 | 16.40 * | 116.315 | 0.999 # | 117.225 | 142.2 |
| 21 | 116.355 | 1.765 * | | 0.000 | 117.105 | 82.56 # | 116.575 | 11.03 | 116.315 | 0.999 * | 117.540 | 196.2 |
| 22 | 116.345 | 1.719 | | 0.000 | 117.115 | 84.69 # | 116.585 | 11.91 | 116.315 | 0.999 * | 117.395 | 157.6 * |
| 23 | 116.345 | 1.719 | | 0.000 | 116.865 | 40.63 * | 116.575 | 11.25 | 116.305 | 0.846 # | 117.225 | 139.7 |
| 24 | 116.345 | 1.722 | | 0.000 | 116.830 | 40.29 | 116.575 | 11.22 * | 116.305 | 0.846 * | 117.165 | 95.81 # |
| 25 | 116.335 | 1.544 | | 0.000 | 116.645 | 16.19 | 116.505 | 7.155 # | 116.305 | 0.846 * | 117.105 | 82.56 * |
| 26 | 116.325 | 1.202 | | 0.000 | 116.515 | 7.517 | 116.495 | 6.659 # | 116.215 | 0.000 | 116.985 | 53.76 |
| 27 | 116.270 | 0.000 | | 0.000 | 116.505 | 7.232 | 118.085 | 487.8 | 116.185 | 0.000 | 116.845 | 41.09 |
| 28 | 116.245 | 0.000 | | 0.000 | 116.485 | 6.403 | 117.705 | 261.7 | 116.155 | 0.000 | 116.775 | 34.84 |
| 29 | 116.135 | 0.000 | | 0.000 | 116.475 | 5.574 | 117.395 | 153.9 | 116.055 | 0.000 | 116.755 | 26.94 * |
| 30 | 116.125 | 0.000 | | 0.000 | 116.335 | 1.350 * | 117.145 | 64.23 | 116.025 | 0.000 | 116.705 | 21.28 |
| 31 | | | | 0.000 | 116.205 | 0.000 | | | 116.005 | 0.000 | | |
| **Ten-Daily Mean** | | | | | | | | | | | | |
| I Ten-Daily | 116.215 | 0.000 | 116.125 | 0.000 | | 0.000 | 116.302 | 1.505 | 117.192 | 133.4 | 116.005 | 0.000 |
| II Ten-Daily | 116.335 | 1.536 | | 0.000 | | 0.000 | 116.995 | 68.67 | 116.664 | 25.91 | 116.817 | 90.22 |
| III Ten-Daily | 116.283 | 0.967 | | 0.000 | 116.644 | 26.58 | 116.964 | 102.7 | 116.199 | 0.412 | 117.049 | 84.97 |
| **Monthly** | | | | | | | | | | | | |
| Min. | 116.125 | 0.000 | 116.125 | 0.000 | 116.205 | 0.000 | 116.115 | 0.000 | 116.005 | 0.000 | 116.005 | 0.000 |
| Max. | 116.455 | 3.915 | 116.125 | 0.000 | 117.115 | 84.69 | 118.085 | 487.8 | 117.955 | 388.6 | 117.845 | 316.9 |
| Mean | 116.278 | 0.834 | 116.125 | 0 | 116.644 | 9.433 | 116.891 | 57.62 | 116.669 | 51.54 | 116.893 | 58.4 |

**Annual Runoff in MCM = 496 Annual Runoff in mm = 13**

**Peak Observed Discharge = 487.8 cumecs on 27/09/2015 Corres. Water Level :118.085 m**

**Lowest Observed Discharge = 0.000 cumecs on 01/06/2015 Corres. Water Level :116.205 m**

Q: Observed/Computed Discharge in cumecs

WL:Corresponding Mean Water Level(m.s.l) in m

*:Computed Discharge

#:Discarded Discharge (values changed as per rating curve)

*Note:Missing values ignored while arriving at Annual Runoff*

## Stage-Discharge Data for the period 2015 - 2016

**Station Name : Chennur ( AP000I1)** **Division : Hydrology Division, Chennai**

**Local River : Pennar** **Sub-Division : PSD, Kadapa**

| Day | Dec | | Jan | | Feb | | Mar | | Apr | | May | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | W.L | Q | WL | Q | WL | Q | WL | Q | WL | Q | WL | Q |
| 1 | 116.630 | 14.33 | 116.305 | 2.482 # | 116.275 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 2 | 116.645 | 15.11 | 116.305 | 2.482 # | 116.275 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 3 | 116.645 | 15.19 | 116.305 | 2.482 * | 116.265 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 4 | 116.705 | 21.36 | 116.305 | 2.482 # | 116.265 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 5 | 116.705 | 21.23 | 116.295 | 2.331 # | 116.255 | 0.000 | | 0.000 | 116.215 | 1.493 | | 0.000 |
| 6 | 116.685 | 19.79 * | 116.285 | 0.000 | 116.255 | 0.000 | | 0.000 | 116.205 | 1.361 | | 0.000 |
| 7 | 116.680 | 19.88 | 116.275 | 0.000 | 116.255 | 0.000 | | 0.000 | 116.065 | 0.000 | | 0.000 |
| 8 | 116.670 | 19.16 | 116.275 | 0.000 | 116.245 | 0.000 | | 0.000 | 115.965 | 0.000 | | 0.000 |
| 9 | 116.640 | 15.36 | 116.275 | 0.000 | 116.235 | 0.000 | | 0.000 | 116.105 | 0.000 | | 0.000 |
| 10 | 116.595 | 10.15 | 116.265 | 0.000 | 116.225 | 0.000 | | 0.000 | 116.205 | 0.000 | | 0.000 |
| 11 | 116.555 | 9.341 | 116.255 | 0.000 | 116.205 | 0.000 | | 0.000 | 116.255 | 1.927 | | 0.000 |
| 12 | 116.550 | 8.993 | 116.255 | 0.000 | 116.145 | 0.000 | | 0.000 | 116.285 | 2.228 | | 0.000 |
| 13 | 116.545 | 7.890 * | 116.245 | 0.000 | 116.085 | 0.000 | | 0.000 | 116.335 | 2.958 | | 0.000 |
| 14 | 116.533 | 8.292 | 116.235 | 0.000 | 116.045 | 0.000 | | 0.000 | 116.325 | 2.801 * | | 0.000 |
| 15 | 116.505 | 7.592 | 116.235 | 0.000 | 116.005 | 0.000 | | 0.000 | 116.325 | 2.879 | | 0.000 |
| 16 | 116.485 | 7.133 | 116.225 | 0.000 | 115.925 | 0.000 | | 0.000 | 116.205 | 1.318 | | 0.000 |
| 17 | 116.465 | 6.399 | 116.225 | 0.000 | 115.905 | 0.000 | | 0.000 | 116.285 | 2.186 * | | 0.000 |
| 18 | 116.445 | 5.557 | 116.215 | 0.000 | 115.905 | 0.000 | | 0.000 | 116.315 | 2.759 | | 0.000 |
| 19 | 116.435 | 5.213 | 116.215 | 0.000 | 115.905 | 0.000 | | 0.000 | 116.345 | 3.320 | | 0.000 |
| 20 | 116.425 | 4.744 * | 116.215 | 0.000 | 115.895 | 0.000 | | 0.000 | 116.345 | 3.143 * | | 0.000 |
| 21 | 116.403 | 3.032 | 116.225 | 0.000 | 115.895 | 0.000 | | 0.000 | 116.385 | 3.963 | | 0.000 |
| 22 | 116.365 | 2.852 | 116.225 | 0.000 | | 0.000 | | 0.000 | 116.385 | 3.914 | | 0.000 |
| 23 | 116.365 | 3.507 * | 116.225 | 0.000 | | 0.000 | | 0.000 | 116.390 | 4.110 | | 0.000 |
| 24 | 116.355 | 2.712 | 116.255 | 0.000 | | 0.000 | | 0.000 | 116.375 | 3.699 * | | 0.000 |
| 25 | 116.345 | 3.143 * | 116.265 | 0.000 | | 0.000 | | 0.000 | 116.385 | 3.976 | | 0.000 |
| 26 | 116.340 | 2.550 | 116.285 | 0.000 | | 0.000 | | 0.000 | 116.350 | 2.831 | | 0.000 |
| 27 | 116.335 | 2.969 * | 116.285 | 0.000 | | 0.000 | | 0.000 | 116.285 | 2.426 | | 0.000 |
| 28 | 116.325 | 2.801 # | 116.275 | 0.000 | | 0.000 | | 0.000 | 116.155 | 0.000 | | 0.000 |
| 29 | 116.315 | 2.639 # | 116.275 | 0.000 | | 0.000 | | 0.000 | 116.005 | 0.000 | | 0.000 |
| 30 | 116.315 | 2.639 # | 116.275 | 0.000 | | | | 0.000 | 115.905 | 0.000 | | 0.000 |
| 31 | 116.315 | 2.639 # | 116.275 | 0.000 | | | | 0.000 | | | | 0.000 |
| **Ten-Daily Mean** | | | | | | | | | | | | |
| I Ten-Daily | 116.660 | 17.16 | 116.289 | 1.226 | 116.255 | 0.000 | | 0.000 | 116.127 | 0.285 | | 0.000 |
| II Ten-Daily | 116.494 | 7.115 | 116.232 | 0.000 | 116.002 | 0.000 | | 0.000 | 116.302 | 2.552 | | 0.000 |
| III Ten-Daily | 116.343 | 2.862 | 116.260 | 0.000 | 115.895 | 0.000 | | 0.000 | 116.262 | 2.492 | | 0.000 |
| **Monthly** | | | | | | | | | | | | |
| Min. | 116.315 | 2.550 | 116.215 | 0.000 | 115.895 | 0.000 | | 0.000 | 115.905 | 0.000 | | 0.000 |
| Max. | 116.705 | 21.36 | 116.305 | 2.482 | 116.275 | 0.000 | | 0.000 | 116.390 | 4.110 | | 0.000 |
| Mean | 116.494 | 8.845 | 116.260 | 0.395 | 116.117 | 0 | | 0 | 116.246 | 1.776 | | 0 |

**Peak Computed Discharge = 388.6 cumecs on 04/10/2015 Corres. Water Level :117.955 m**

**Lowest Computed Discharge = 0.846 cumecs on 24/10/2015 Corres. Water Level :116.305 m**

Q: Observed/Computed Discharge in cumecs

WL:Corresponding Mean Water Level(m.s.l) in m

*:Computed Discharge

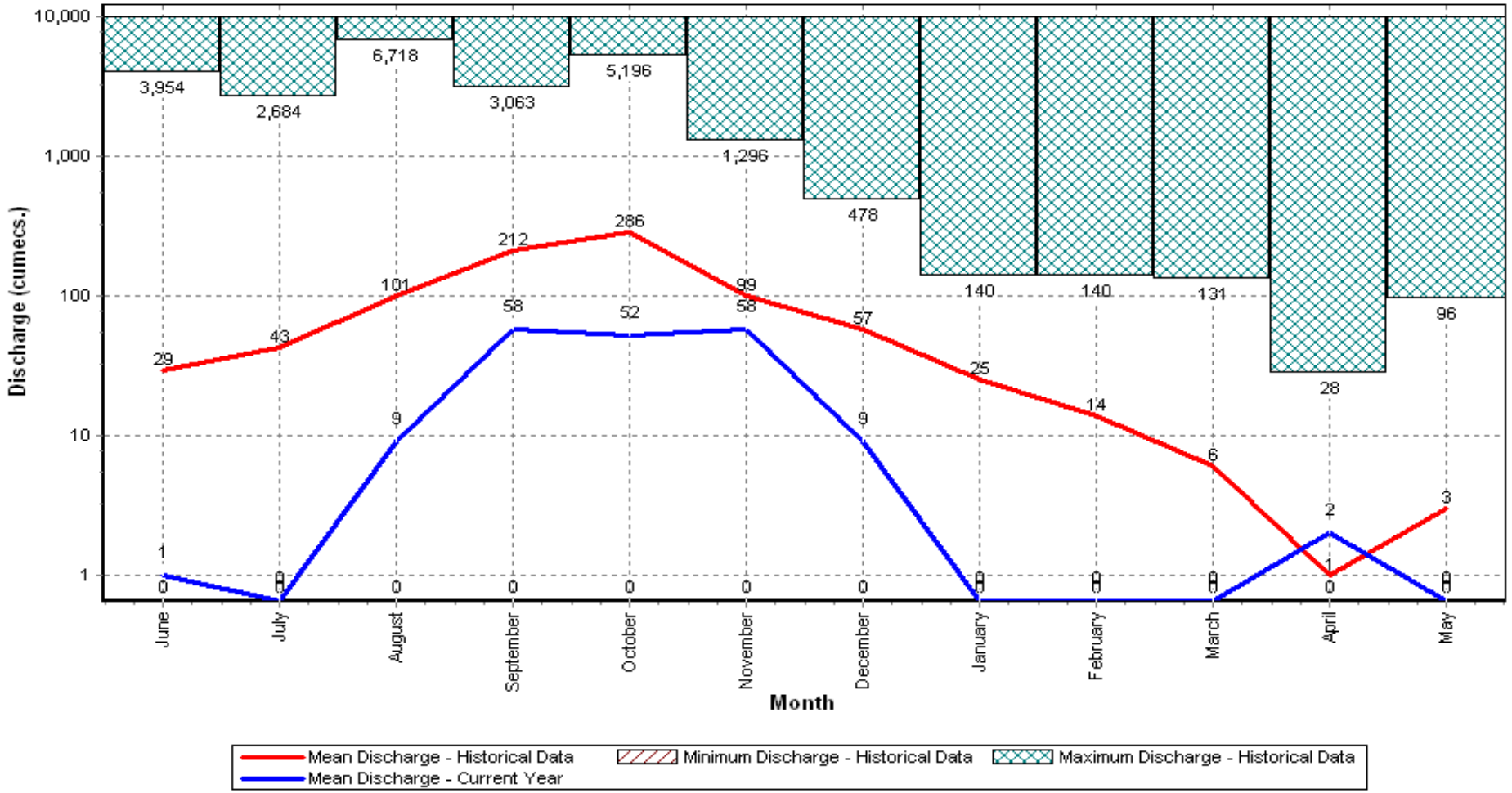
#:Discarded Discharge (values changed as per rating curve)

*Note:Missing values ignored while arriving at Annual Runoff*

**HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016**

**Station Name : Chennur ( AP000I1)** | **Data considered : 1990-2016** | **Division : Hydrology Division, Chennai**

**Local River : Pennar** | **Sub-Division : PSD, Kadapa**



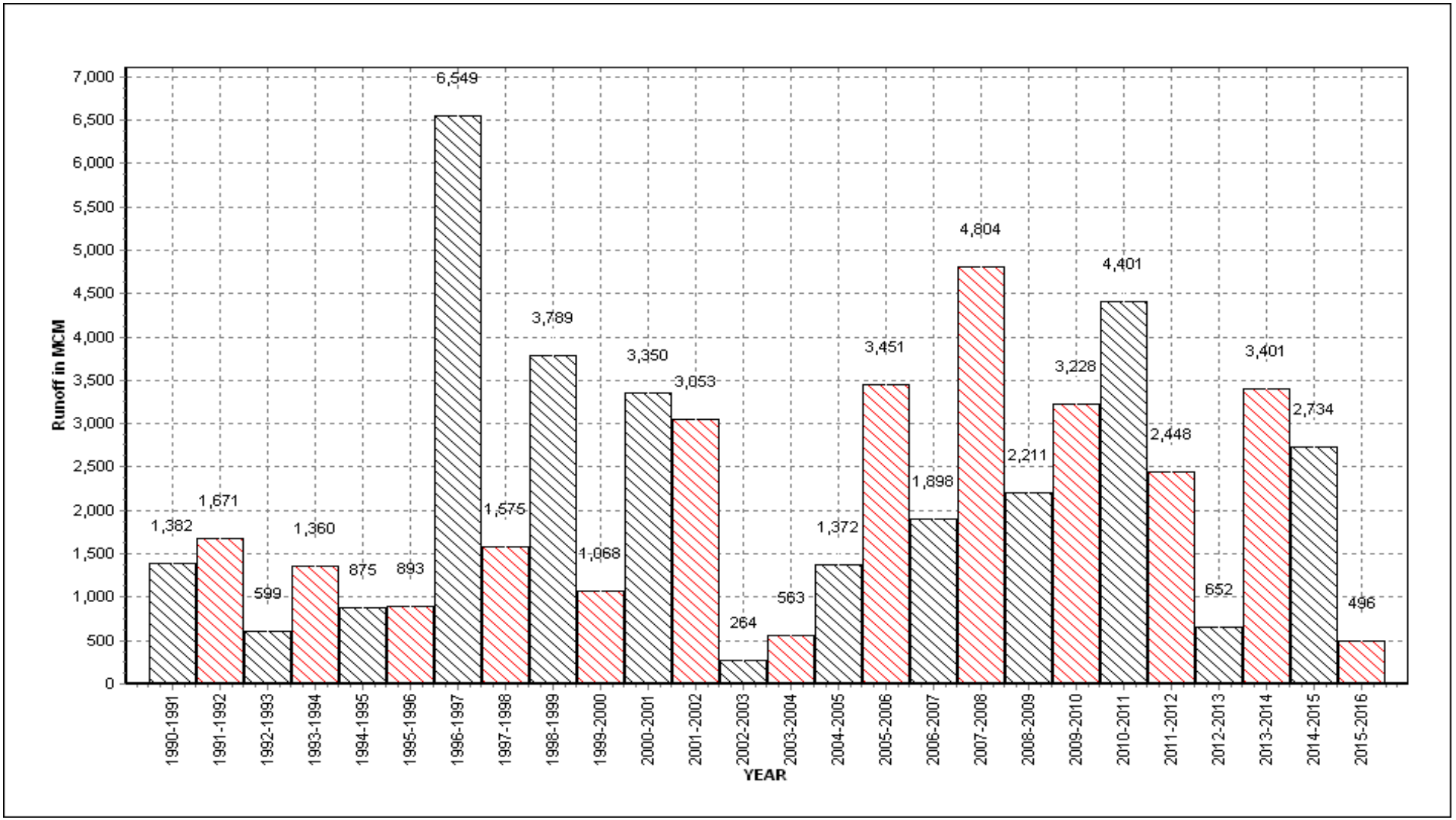
**Annual Runoff Values for the period: 1990 - 2016**

**Station Name : Chennur ( AP000I1)**

**Division : Hydrology Division, Chennai**

**Local River : Pennar**

**Sub-Division : PSD, Kadapa**




*Note: Missing values have not been considered while arriving at Annual Runoff*

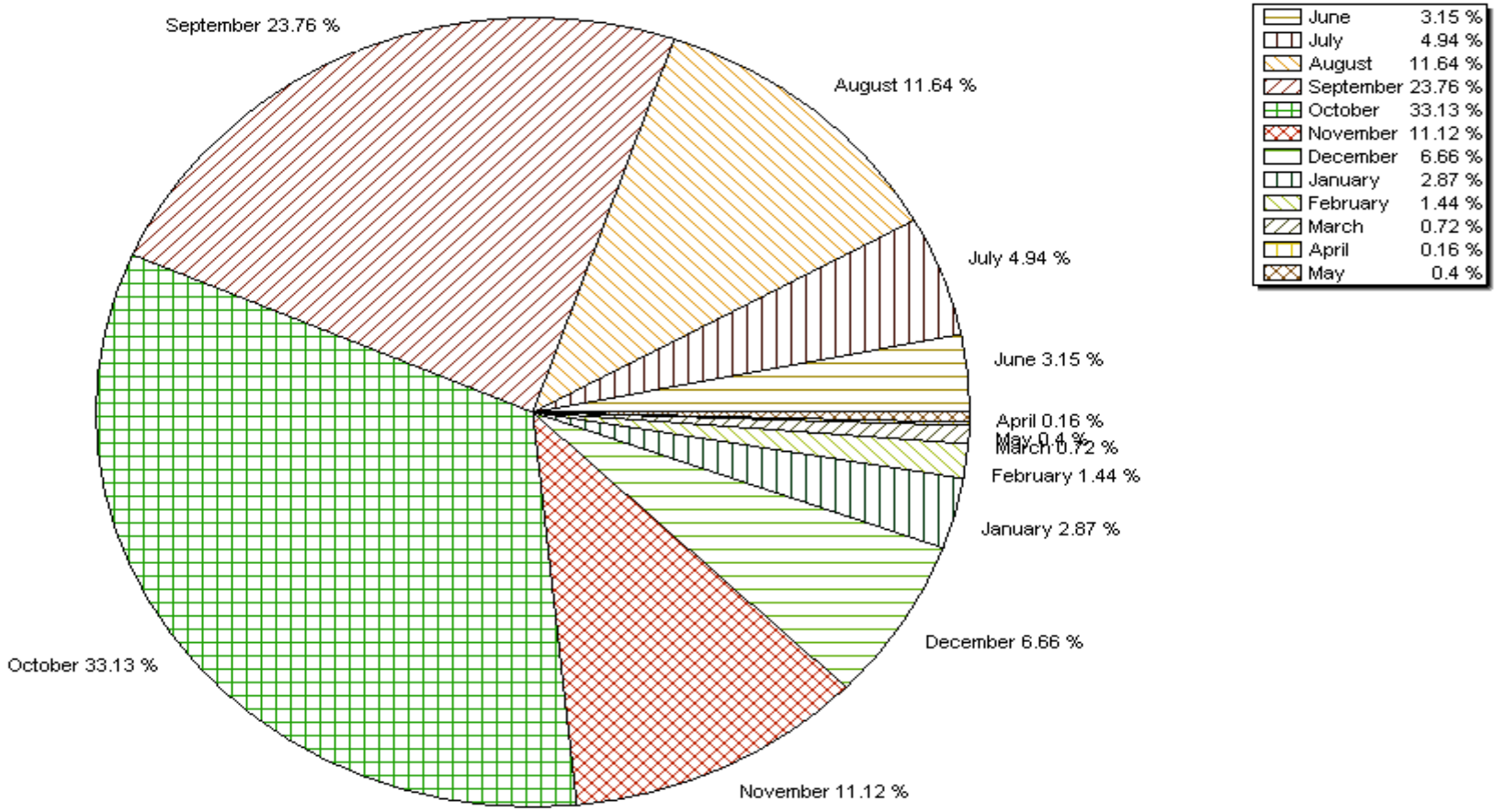
**Monthly Average Runoff based on period : 1990-2015**

**Station Name : Chennur ( AP000I1)**

**Local River : Pennar**

**Division : Hydrology Division, Chennai**

**Sub-Division : PSD, Kadapa**



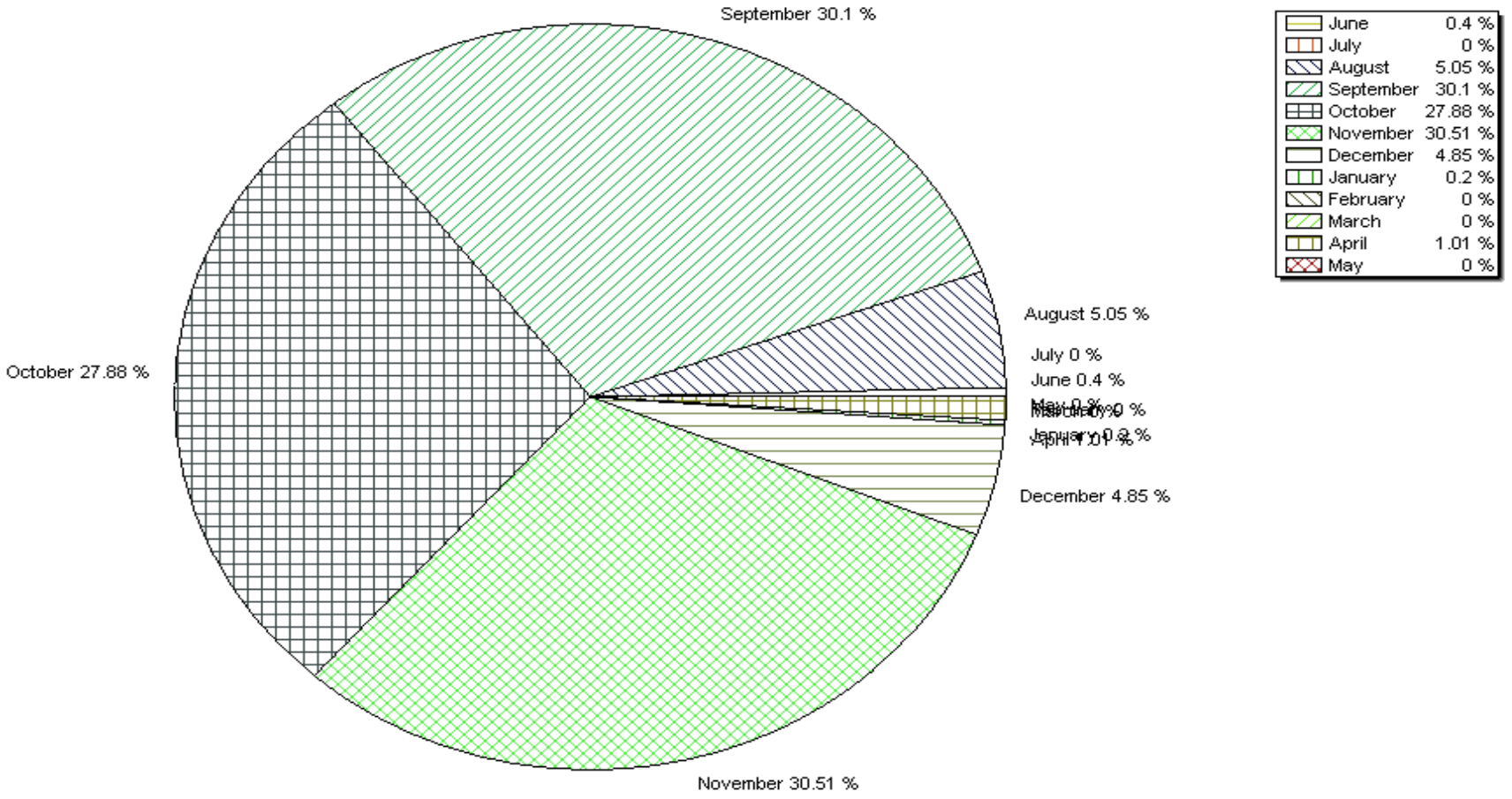
**Monthly Runoff for the Year : 2015-2016**

**Station Name : Chennur ( AP000I1)**

**Local River : Pennar**

**Division : Hydrology Division, Chennai**

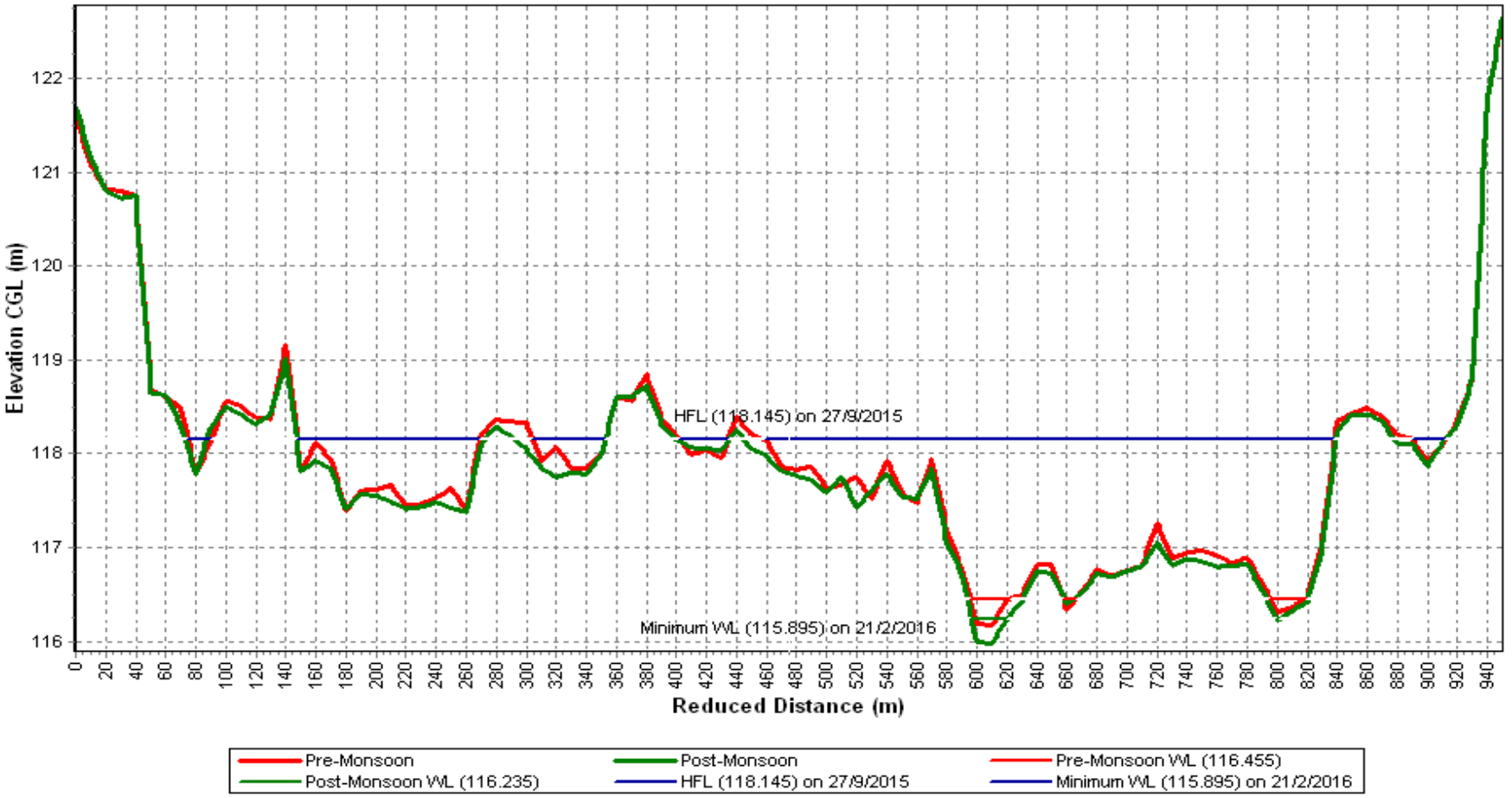
**Sub-Division : PSD, Kadapa**



**Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2015-2016**

**Station Name : Chennur ( AP000I1)**
**Local River : Pennar**

**Division : Hydrology Division, Chennai**
**Sub-Division : PSD, Kadapa**



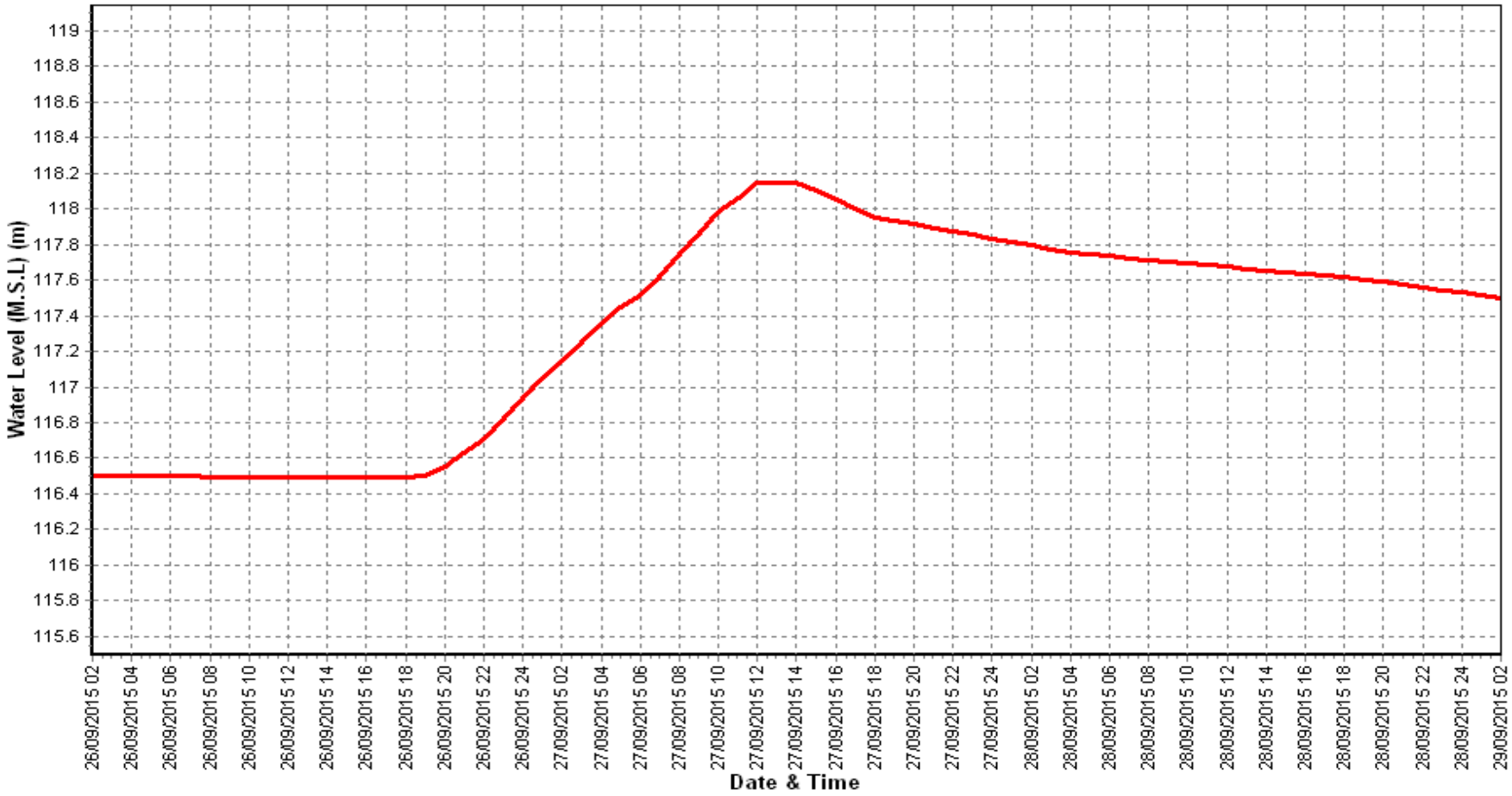
**Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2015-2016**

**Station Name : Chennur ( AP000I1)**

**Local River : Pennar**

**Division : Hydrology Division, Chennai**

**Sub-Division : PSD, Kadapa**

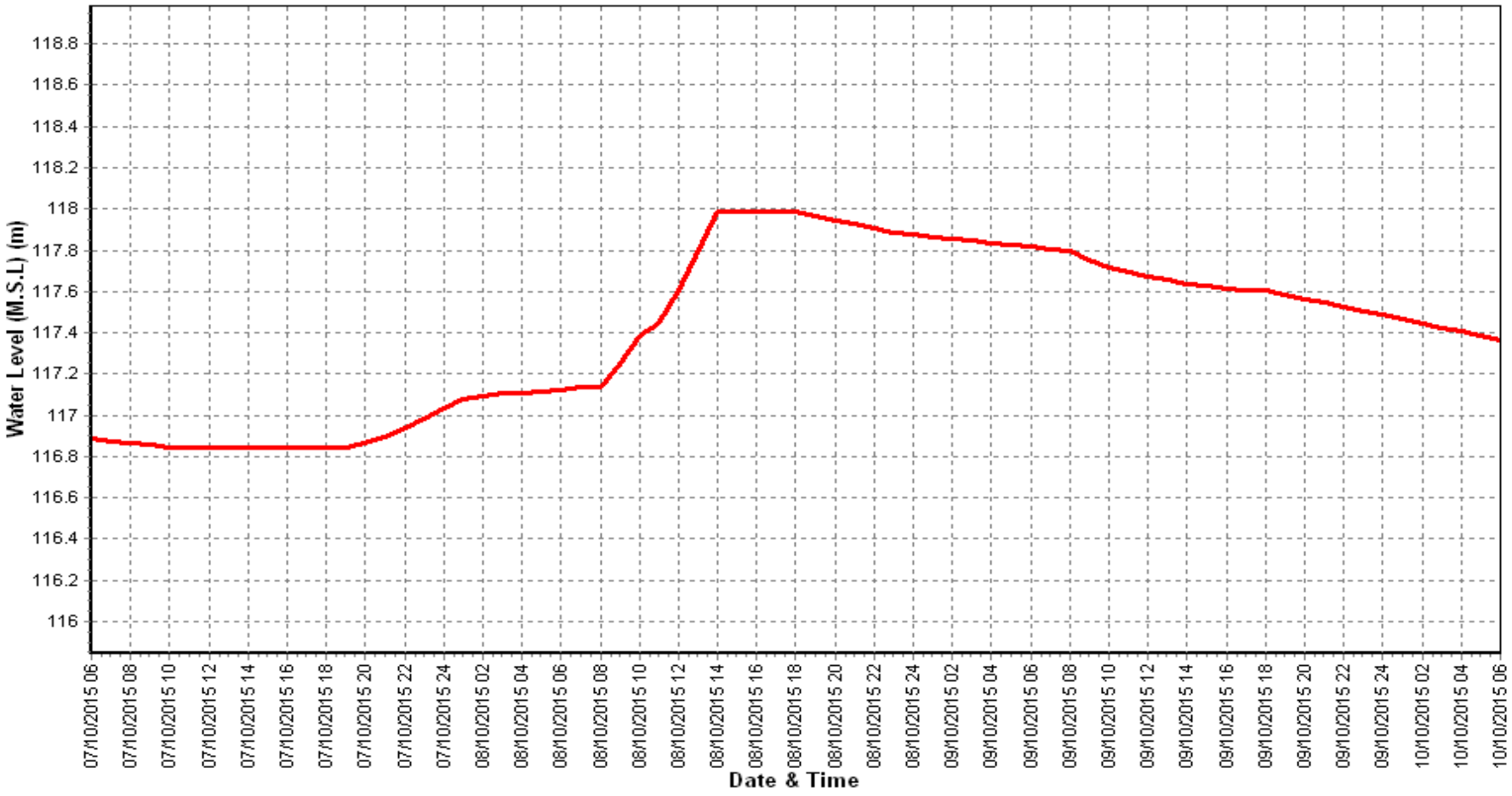



Time Span: 72 Hrs

**Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2015-2016**

**Station Name : Chennur ( AP000I1)** **Division : Hydrology Division, Chennai**

**Local River : Pennar** **Sub-Division : PSD, Kadapa**

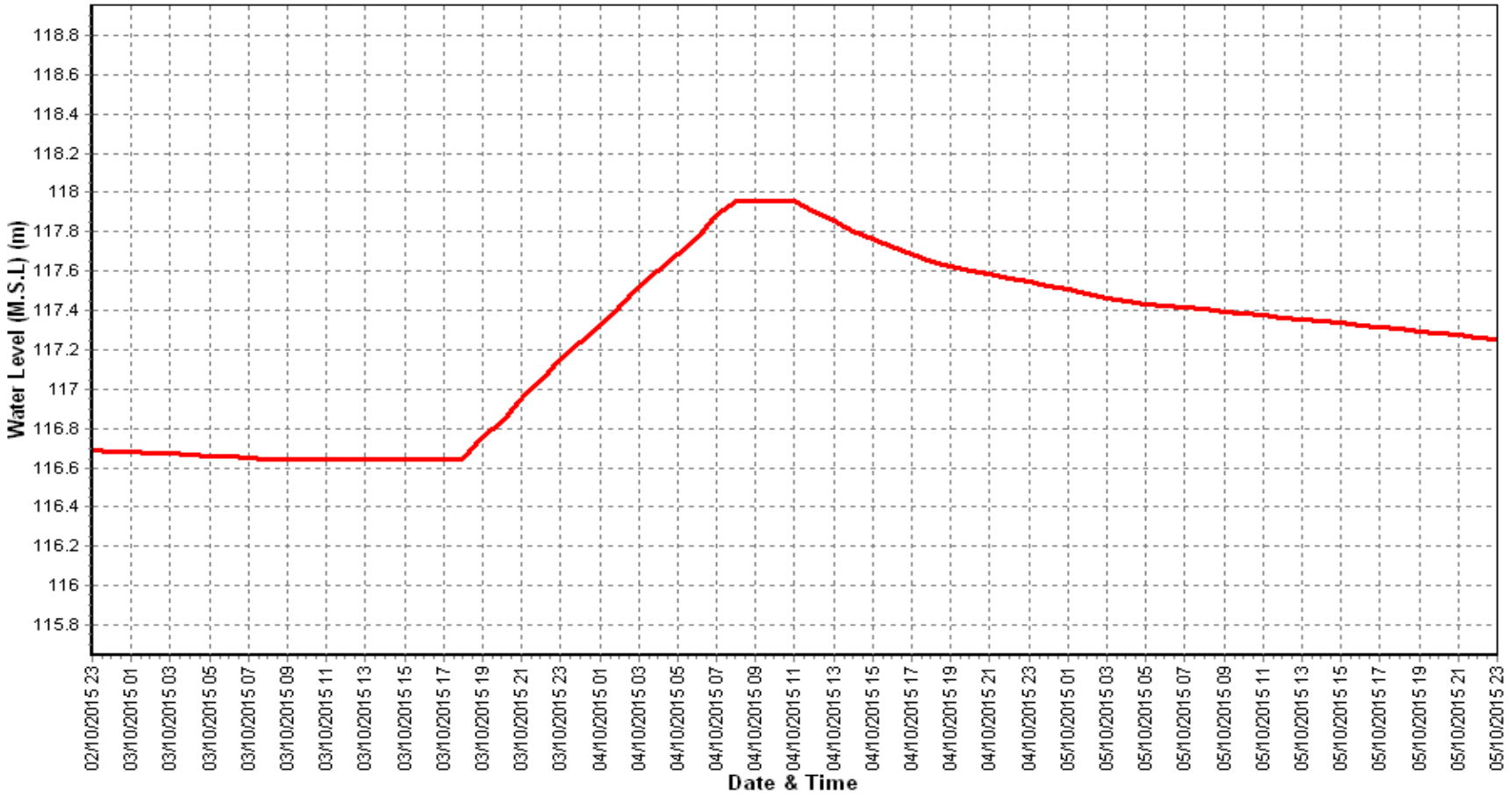



Time Span: 72 Hrs

**Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2015-2016**

**Station Name : Chennur ( AP000I1)** **Division : Hydrology Division, Chennai**

**Local River : Pennar** **Sub-Division : PSD, Kadapa**






Time Span: 72 Hrs

## HISTORY SHEET

**Water Year : 2015-2016**

| | | | | | |
|---|---|---|---|---|---|
| **Site** | **: Kamalapuram** | | **Code** | **: APE00C5** | |
| State | : Andhra Pradesh | | District | Kadapa | |
| Basin | : Pennar | | Independent River | : Pennar | |
| Tributary | : Papagni | | Sub Tributary | : | |
| Sub-Sub Tributary | : | | Local River | : Papagni | |
| Division | : Hydrology Division, Chennai | | Sub-Division | : Pennar SD, Kadapa | |
| Drainage Area | : 7187 Sq. Km. | | Bank | : Left | |
| Latitude | : 14°35'30" | | Longitude | : 78°41'00" | |
| **Zero of Gauge (m)** | : 135.650 (m.s.l)<br>132.650 (m.s.l) | | 06/11/1989<br>01/06/2008 | - 31/05/2008 | |
| | Opening Date | | Closing Date | | |
| Gauge | : 06/11/1989 | | | | |
| Discharge | : 16/06/1990 | | | | |
| Sediment | : | | | | |
| Water Quality | : 01/06/1994 | | | | |

**Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)**

| | Maximum | | | Minimum | | |
|---|---|---|---|---|---|---|
| **Year** | **Q (cumecs)** | **WL (m)** | **Date** | **Q (cumecs)** | **WL (m)** | **Date** |
| 1991-1992 | 1066 | 138.161 | 17/11/1991 | 0.000 | Dry Bed | 01/06/1991 |
| 1992-1993 | 32.54 | 136.719 | 22/11/1992 | 0.000 | Dry Bed | 01/06/1992 |
| 1993-1994 | 121.3 | 136.907 | 06/12/1993 | 0.000 | Dry Bed | 01/06/1993 |
| 1994-1995 | 79.16 | 136.983 | 05/10/1994 | 0.000 | Dry Bed | 01/06/1994 |
| 1995-1996 | 138.0 | 137.250 | 18/08/1995 | 0.000 | Dry Bed | 01/06/1995 |
| 1996-1997 | 1089 | 139.200 | 20/10/1996 | 0.000 | Dry Bed | 01/06/1996 |
| 1997-1998 | 302.0 | 137.480 | 02/10/1997 | 0.000 | Dry Bed | 01/06/1997 |
| 1998-1999 | 156.5 | 137.230 | 15/10/1998 | 0.000 | Dry Bed | 01/06/1998 |
| 1999-2000 | 0.000 | Dry Bed | 01/06/1999 | 0.000 | Dry Bed | 01/06/1999 |
| 2000-2001 | 46.30 | 136.920 | 18/09/2000 | 0.000 | Dry Bed | 01/06/2000 |
| 2001-2002 | 980.4 | 138.200 | 17/10/2001 | 0.000 | Dry Bed | 01/06/2001 |
| 2002-2003 | 50.96 | 136.852 | 12/06/2002 | 0.000 | Dry Bed | 01/06/2002 |
| 2003-2004 | 397.7 | 137.200 | 22/10/2003 | 0.000 | Dry Bed | 01/06/2003 |
| 2004-2005 | 3.000 | 136.590 | 07/09/2004 | 0.000 | Dry Bed | 01/06/2004 |
| 2005-2006 | 175.2 | 136.800 | 03/11/2005 | 0.000 | Dry Bed | 01/06/2005 |
| 2006-2007 | 0.000 | Dry Bed | 01/06/2006 | 0.000 | Dry Bed | 01/06/2006 |
| 2007-2008 | 123.6 | 136.700 | 19/09/2007 | 0.000 | Dry Bed | 01/06/2007 |
| 2008-2009 | 39.67 | 135.620 | 09/09/2008 | 0.000 | Dry Bed | 01/06/2008 |

Q : Observed / Computed Discharge
WL : Corresponding Water Level(m.s.l)

**Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)**

| | Maximum | | | Minimum | | |
|---|---|---|---|---|---|---|
| **Year** | **Q (cumecs)** | **WL (m)** | **Date** | **Q (cumecs)** | **WL (m)** | **Date** |
| 2009-2010 | 9.824 | 136.260 | 29/09/2009 | 0.000 | Dry Bed | 01/06/2009 |
| 2010-2011 | 98.48 | 135.250 | 18/11/2010 | 0.000 | Dry Bed | 01/06/2010 |
| 2011-2012 | 116.1 | 135.700 | 23/08/2011 | 0.000 | Dry Bed | 01/06/2011 |
| 2012-2013 | 0.000 | Dry Bed | 01/06/2012 | 0.000 | Dry Bed | 01/06/2012 |
| 2013-2014 | 201.8 | 135.545 | 24/10/2013 | 0.000 | Dry Bed | 01/06/2013 |
| 2014-2015 | 0.000 | Dry Bed | 01/06/2014 | 0.000 | Dry Bed | 01/06/2014 |

Q : Observed / Computed Discharge
WL : Corresponding Water Level(m.s.l)

## Stage-Discharge Data for the period 2015 - 2016

**Station Name : Kamalapuram ( APE00C5)** **Division : Hydrology Division, Chennai**

**Local River : Papagni** **Sub-Division : PSD, Kadapa**

| Day | Jun | | Jul | | Aug | | Sep | | Oct | | Nov | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | W.L | Q | W.L | Q | W.L | Q | W.L | Q | W.L | Q | W.L | Q |
| 1 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 2 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 3 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 4 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 134.650 | 0.965 * | | 0.000 |
| 5 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 134.720 | 2.416 | | 0.000 |
| 6 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 134.720 | 2.659 | | 0.000 |
| 7 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 134.600 | 0.000 | | 0.000 |
| 8 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 134.950 | 9.378 | | 0.000 |
| 9 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 135.100 | 28.17 | | 0.000 |
| 10 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 134.900 | 7.010 | | 0.000 |
| 11 | | 0.000 | | 0.000 | | 0.000 | 135.100 | 27.43 | 134.660 | 1.115 * | | 0.000 |
| 12 | | 0.000 | | 0.000 | | 0.000 | 134.800 | 5.553 | 134.560 | 0.000 | | 0.000 |
| 13 | | 0.000 | | 0.000 | | 0.000 | 134.610 | 0.486 * | 134.560 | 0.000 | | 0.000 |
| 14 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 134.550 | 0.000 | | 0.000 |
| 15 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 16 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 17 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 135.175 | 32.13 |
| 18 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 135.270 | 42.30 |
| 19 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 135.130 | 25.54 |
| 20 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 135.340 | 51.47 |
| 21 | | 0.000 | | 0.000 | 134.875 | 7.164 | | 0.000 | | 0.000 | 135.400 | 60.32 |
| 22 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 135.350 | 53.24 * |
| 23 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 135.260 | 40.56 |
| 24 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 135.250 | 40.38 |
| 25 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 135.240 | 38.42 * |
| 26 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 135.175 | 31.70 |
| 27 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 135.140 | 27.78 |
| 28 | | 0.000 | | 0.000 | | 0.000 | 134.930 | 8.186 | | 0.000 | 135.140 | 29.29 |
| 29 | | 0.000 | | 0.000 | | 0.000 | 134.710 | 2.067 | | 0.000 | 135.140 | 27.31 * |
| 30 | | 0.000 | | 0.000 | | 0.000 | 134.590 | 0.315 * | | 0.000 | 135.140 | 28.47 |
| 31 | | | | 0.000 | | 0.000 | | | | 0.000 | | |
| **Ten-Daily Mean** | | | | | | | | | | | | |
| I Ten-Daily | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 134.806 | 5.060 | | 0.000 |
| II Ten-Daily | | 0.000 | | 0.000 | | 0.000 | 134.837 | 3.347 | 134.583 | 0.112 | 135.229 | 15.14 |
| III Ten-Daily | | 0.000 | | 0.000 | 134.875 | 0.651 | 134.743 | 1.057 | | 0.000 | 135.223 | 37.75 |
| **Monthly** | | | | | | | | | | | | |
| Min. | | 0.000 | | 0.000 | 134.875 | 0.000 | 134.590 | 0.000 | 134.550 | 0.000 | 135.130 | 0.000 |
| Max. | | 0.000 | | 0.000 | 134.875 | 7.164 | 135.100 | 27.43 | 135.100 | 28.17 | 135.400 | 60.32 |
| Mean | | 0 | | 0 | 134.875 | 0.231 | 134.790 | 1.468 | 134.725 | 1.668 | 135.225 | 17.63 |

**Annual Runoff in MCM = 67 Annual Runoff in mm = 9**

**Peak Observed Discharge = 60.32 cumecs on 21/11/2015 Corres. Water Level :135.4 m**

**Lowest Observed Discharge = 0.000 cumecs on 01/06/2015**

Q: Observed/Computed Discharge in cumecs

WL:Corresponding Mean Water Level(m.s.l) in m

*:Computed Discharge

#:Discarded Discharge (values changed as per rating curve)

*Note:Missing values ignored while arriving at Annual Runoff*

## Stage-Discharge Data for the period 2015 - 2016

**Station Name : Kamalapuram ( APE00C5)** **Division : Hydrology Division, Chennai**

**Local River : Papagni** **Sub-Division : PSD, Kadapa**

| Day | Dec | | Jan | | Feb | | Mar | | Apr | | May | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | W.L | Q | WL | Q | WL | Q | WL | Q | WL | Q | WL | Q |
| 1 | 135.000 | 17.59 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 2 | 134.960 | 17.03 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 3 | 134.960 | 16.96 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 4 | 134.930 | 14.62 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 5 | 134.920 | 14.69 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 6 | 134.890 | 12.64 * | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 7 | 134.800 | 9.203 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 8 | 134.780 | 7.366 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 9 | 134.750 | 6.627 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 10 | 134.740 | 5.176 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 11 | 134.730 | 4.768 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 12 | 134.720 | 4.541 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 13 | 134.710 | 4.013 * | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 14 | 134.670 | 2.692 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 15 | 134.670 | 2.695 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 16 | 134.650 | 1.901 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 17 | 134.590 | 0.958 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 18 | 134.560 | 0.642 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 19 | 134.520 | 0.229 # | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 20 | 134.480 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 21 | 134.450 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 22 | 134.420 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 23 | 134.410 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 24 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 25 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 26 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 27 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 28 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 29 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 30 | | 0.000 | | 0.000 | | | | 0.000 | | 0.000 | | 0.000 |
| 31 | | 0.000 | | 0.000 | | | | 0.000 | | | | 0.000 |
| **Ten-Daily Mean** | | | | | | | | | | | | |
| I Ten-Daily | 134.873 | 12.19 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| II Ten-Daily | 134.630 | 2.244 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| III Ten-Daily | 134.427 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| **Monthly** | | | | | | | | | | | | |
| Min. | 134.410 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| Max. | 135.000 | 17.59 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| Mean | 134.709 | 4.656 | | 0 | | 0 | | 0 | | 0 | | 0 |

**Peak Computed Discharge = 53.24 cumecs on 22/11/2015** **Corres. Water Level :135.35 m**

**Lowest Computed Discharge = 0.315 cumecs on 30/09/2015** **Corres. Water Level :134.59 m**

Q: Observed/Computed Discharge in cumecs

WL:Corresponding Mean Water Level(m.s.l) in m

*:Computed Discharge

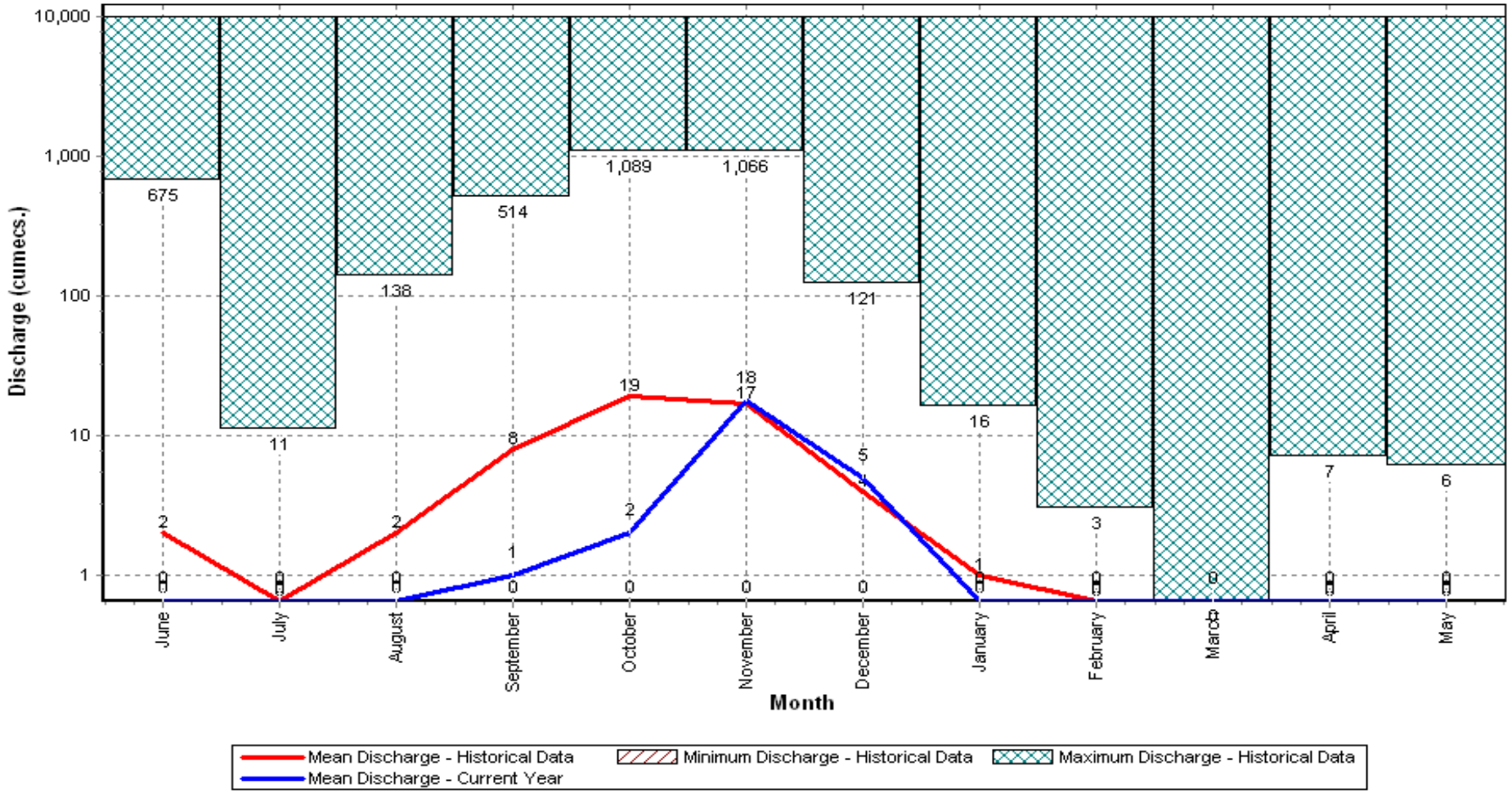
#:Discarded Discharge (values changed as per rating curve)

*Note:Missing values ignored while arriving at Annual Runoff*

**HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016**

**Station Name : Kamalapuram ( APE00C5)** | **Data considered : 1991-2016** | **Division : Hydrology Division, Chennai**

**Local River : Papagni** | **Sub-Division : PSD, Kadapa**


Discharge (cumecs.)
10,000
1,000
100
10
1
675
11
138
514
1,089
1,066
121
16
3
0
7
6
2
0
2
8
19
18
17
5
1
0
1
2
0
0
0

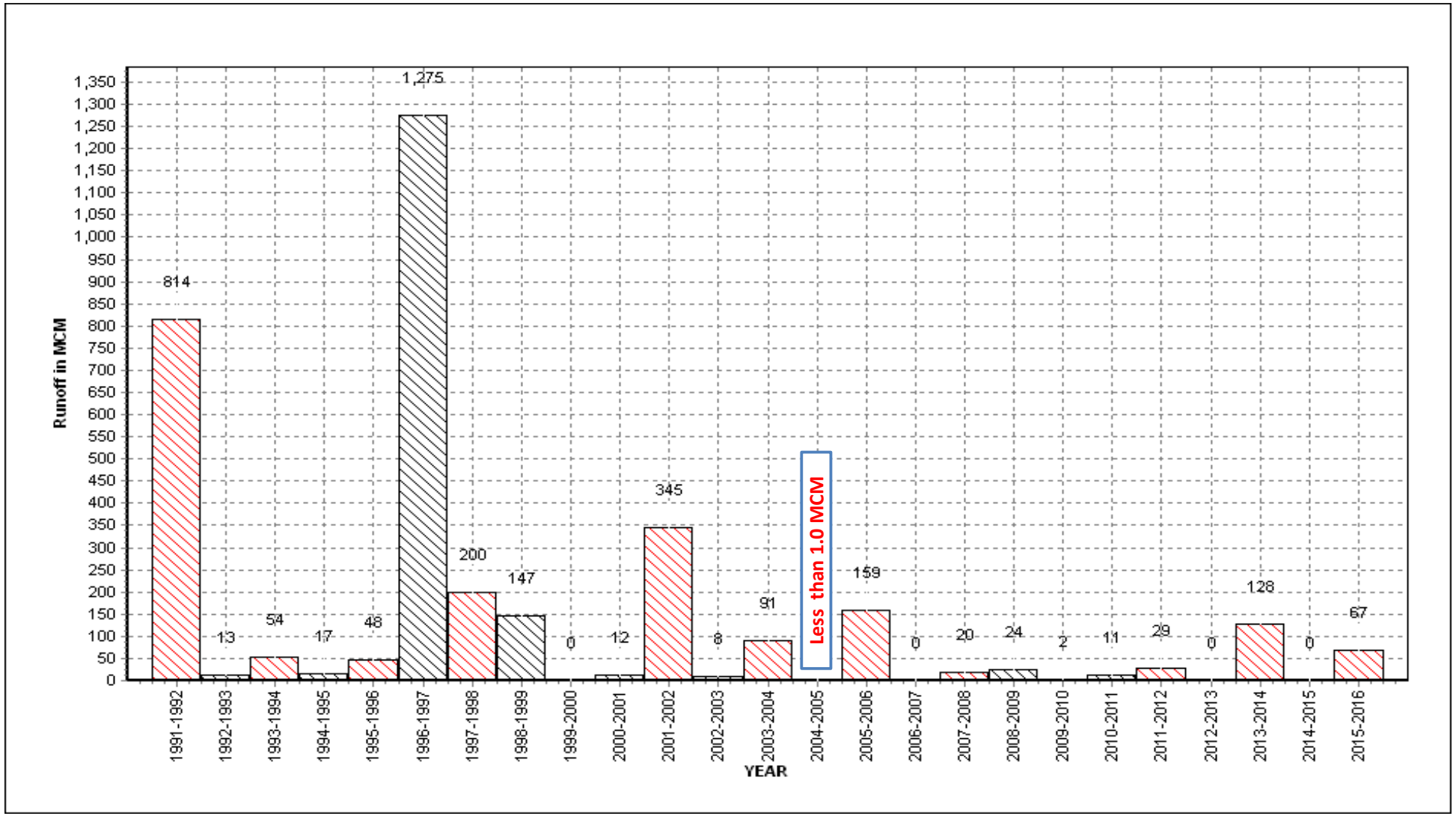
**Annual Runoff Values for the period: 1991 - 2016**

**Station Name : Kamalapuram ( APE00C5)**

**Local River : Papagni**

**Division : Hydrology Division, Chennai**

**Sub-Division : PSD, Kadapa**




*Note: Missing values have not been considered while arriving at Annual Runoff*

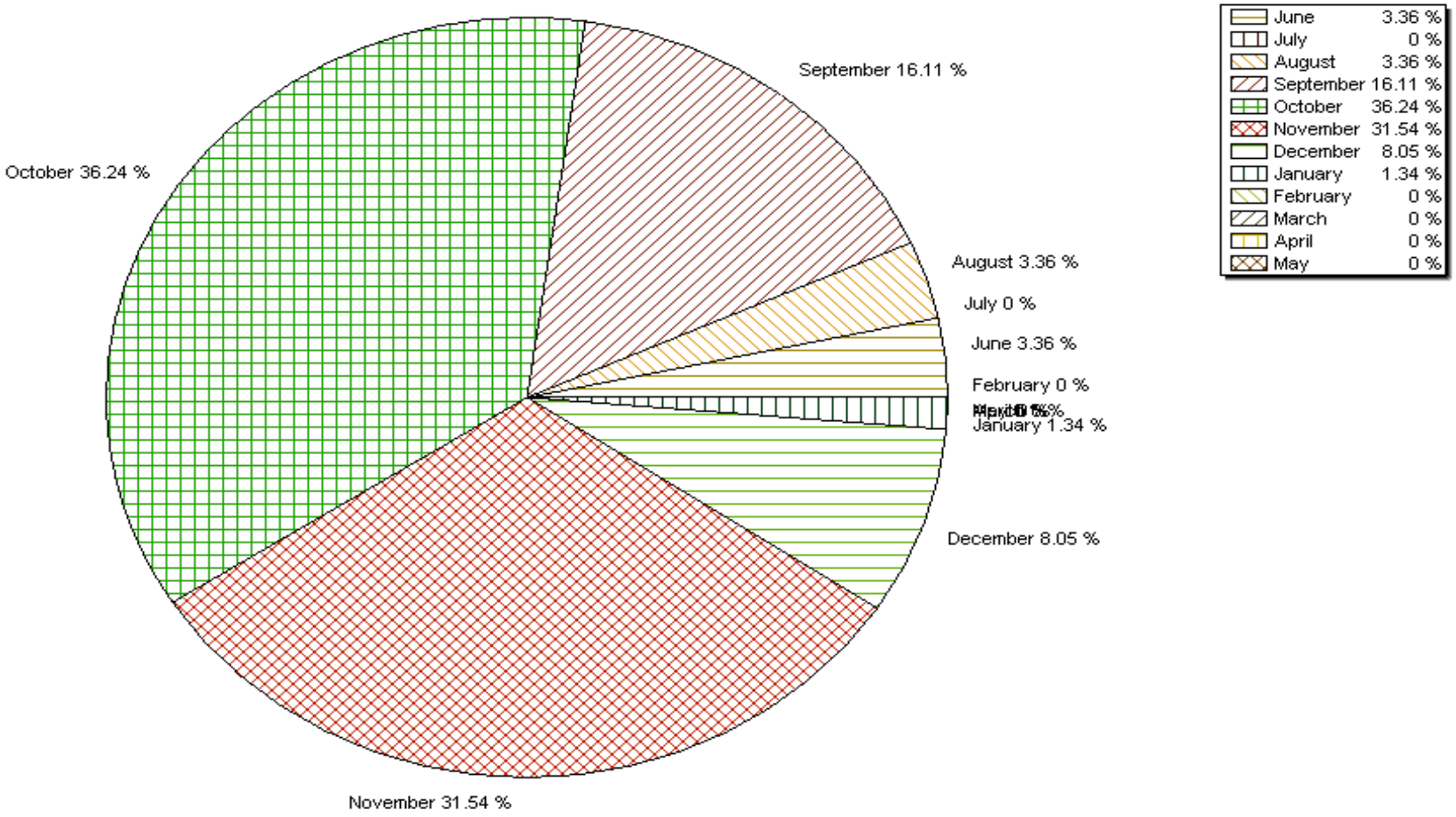
**Monthly Average Runoff based on period : 1991-2015**

**Station Name : Kamalapuram ( APE00C5)**

**Local River : Papagni**

**Division : Hydrology Division, Chennai**

**Sub-Division : PSD, Kadapa**



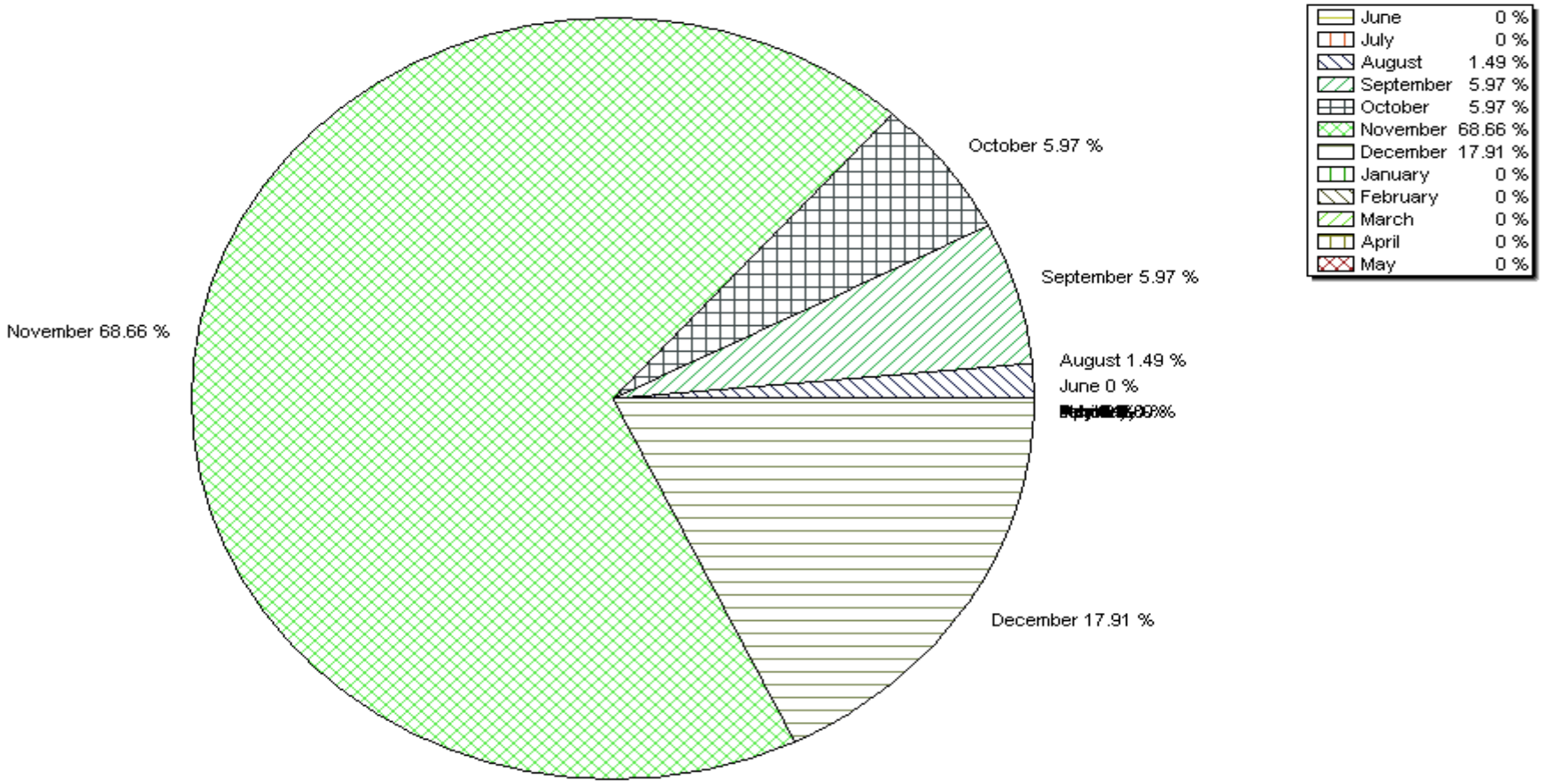
**Monthly Runoff for the Year : 2015-2016**

**Station Name : Kamalapuram ( APE00C5)**

**Local River : Papagni**

**Division : Hydrology Division, Chennai**

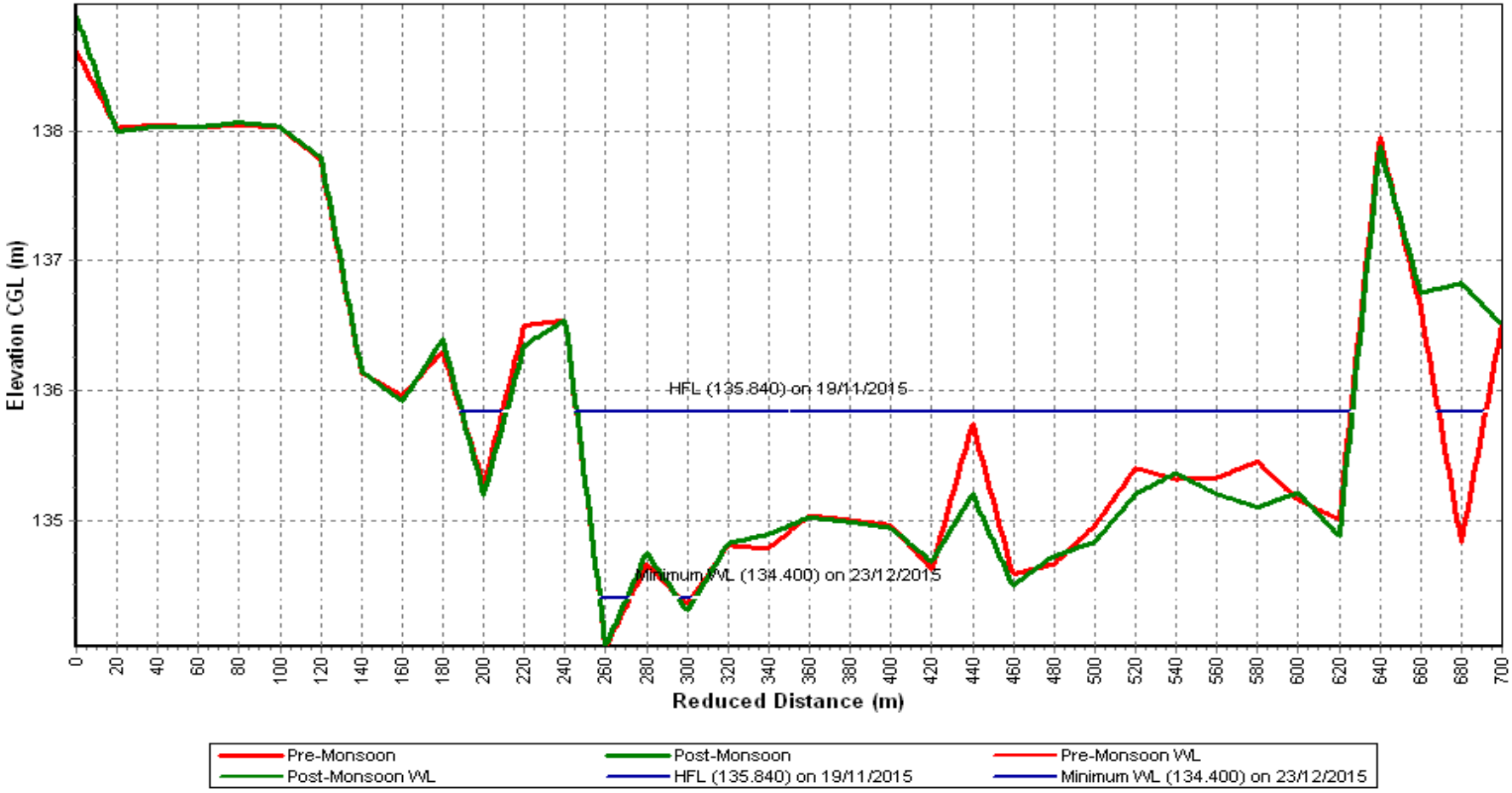
**Sub-Division : PSD, Kadapa**



**Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2015-2016**

**Station Name : Kamalapuram ( APE00C5)** **Division : Hydrology Division, Chennai**

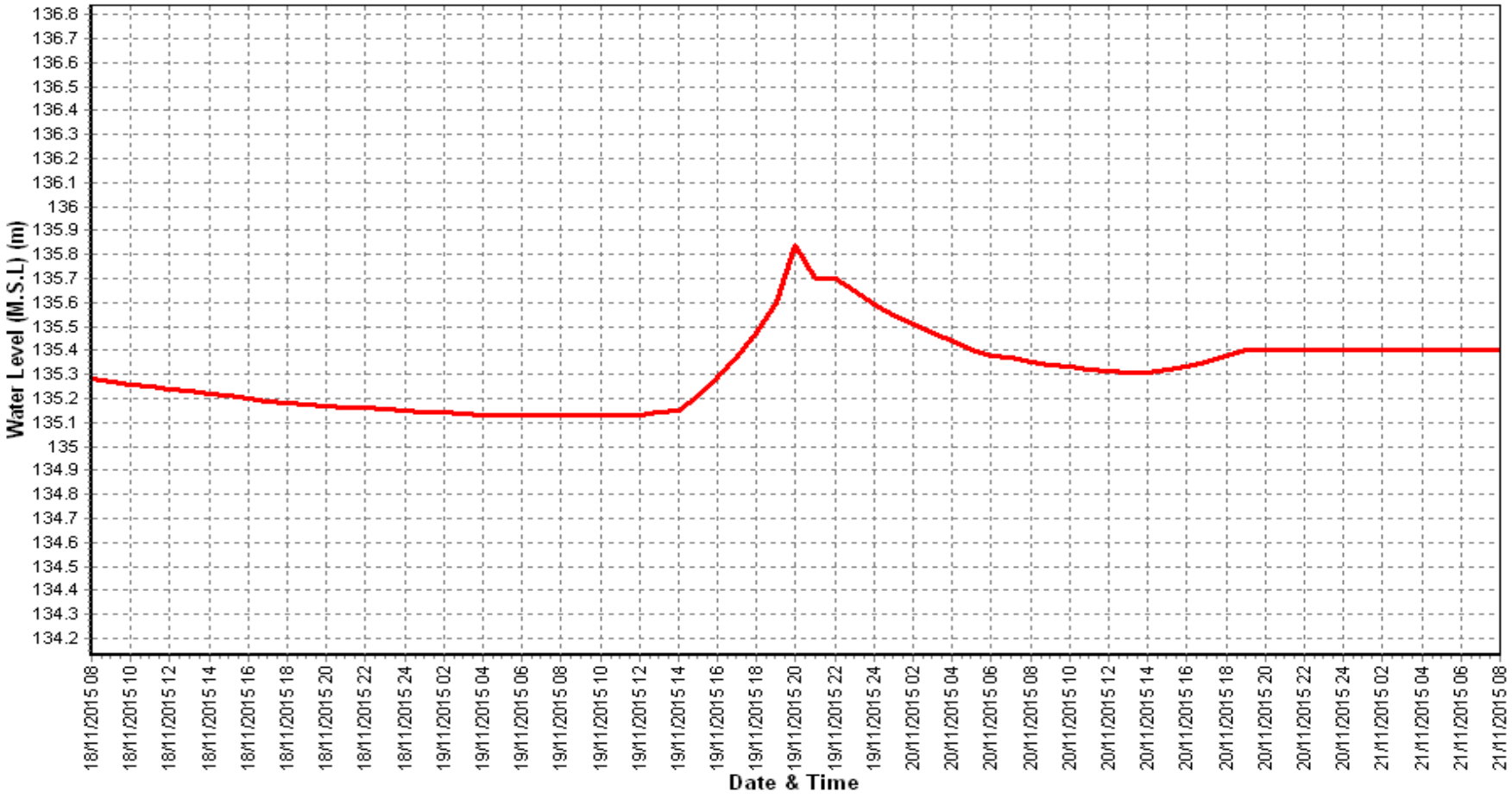
**Local River : Papagni** **Sub-Division : PSD, Kadapa**



**Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2015-2016**

**Station Name : Kamalapuram ( APE00C5)** **Division : Hydrology Division, Chennai**

**Local River : Papagni** **Sub-Division : PSD, Kadapa**

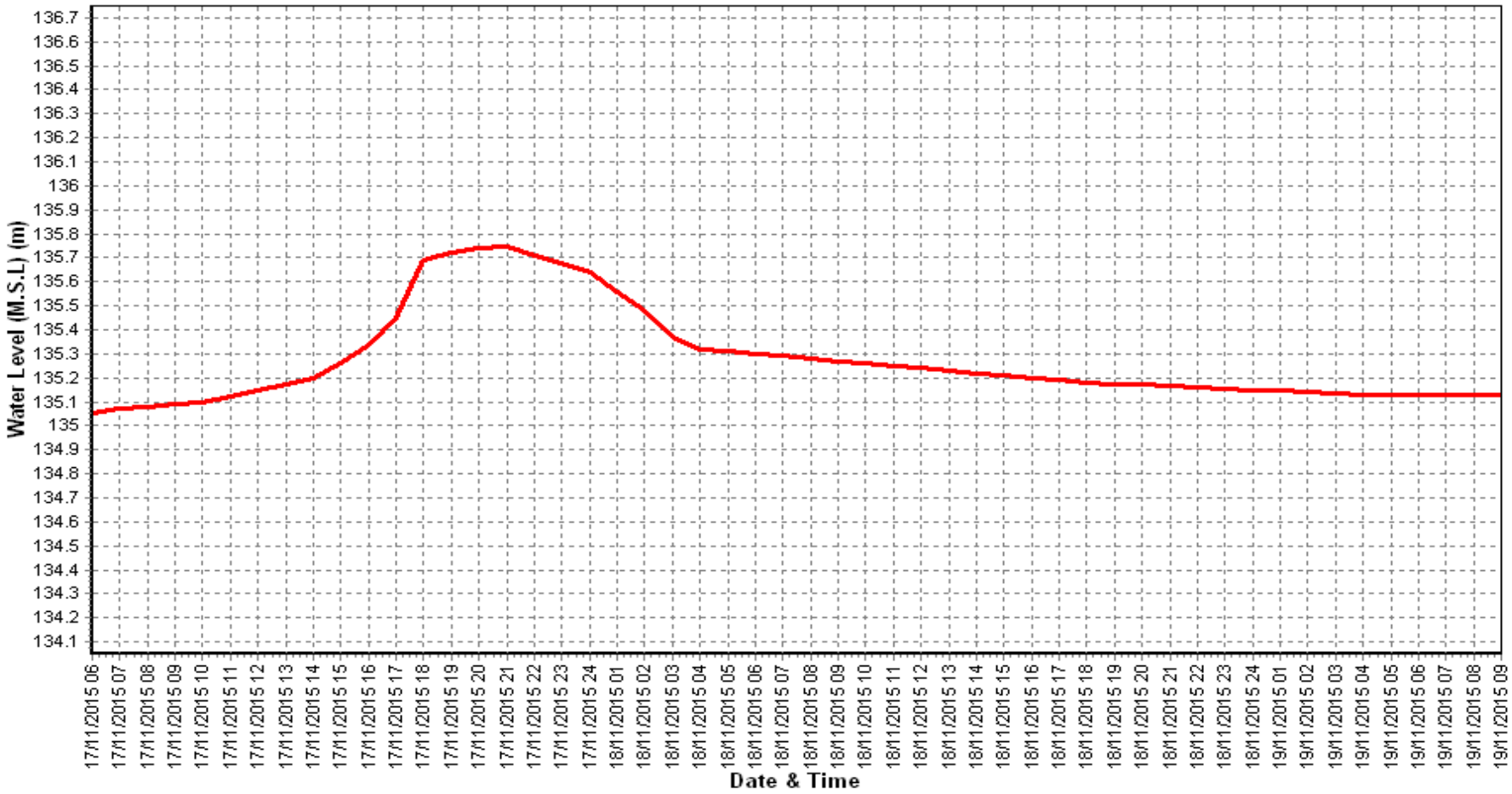



Time Span: 72 Hrs

**Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2015-2016**

**Station Name : Kamalapuram ( APE00C5)** **Division : Hydrology Division, Chennai**

**Local River : Papagni** **Sub-Division : PSD, Kadapa**

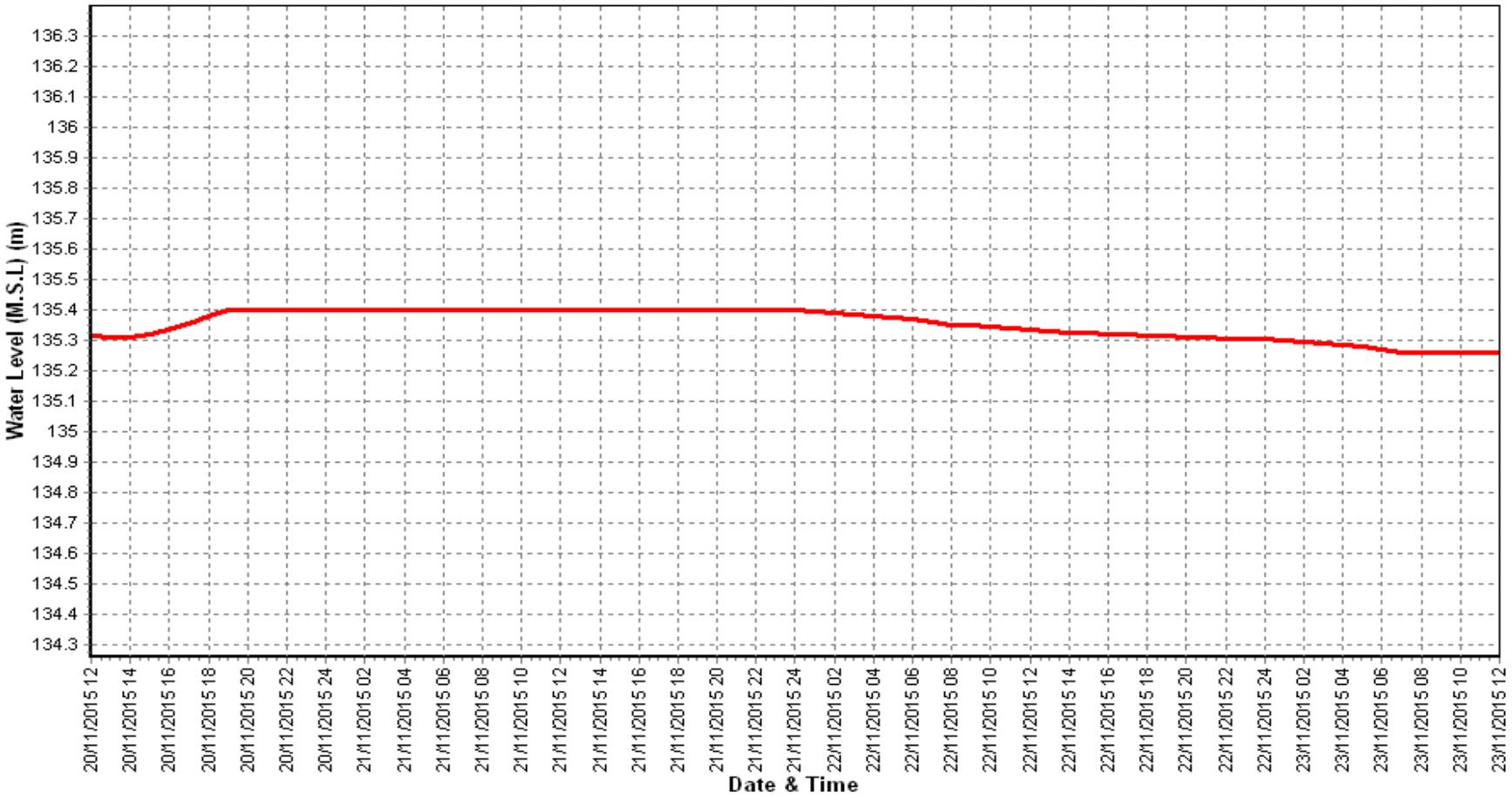



Time Span: 72 Hrs

**Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2015-2016**

**Station Name : Kamalapuram ( APE00C5)** **Division : Hydrology Division, Chennai**

**Local River : Papagni** **Sub-Division : PSD, Kadapa**




Time Span: 72 Hrs

## HISTORY SHEET

**Water Year : 2015-2016**

| | | | | | |
|---|---|---|---|---|---|
| **Site** | : | **Nandalur** | **Code** | : | **APB00I2** |
| State | : | Andhra Pradesh | District | | Kadapa |
| Basin | : | Pennar | Independent River | : | Pennar |
| Tributary | : | Cheyyeru | Sub Tributary | : | |
| Sub-Sub Tributary | : | | Local River | : | Cheyyeru |
| Division | : | Hydrology Division, Chennai | Sub-Division | : | Pennar SD, Kadapa |
| Drainage Area | : | 5183 Sq. Km. | Bank | : | Right |
| Latitude | : | 14°15'17" | Longitude | : | 79°06'59" |
| **Zero of Gauge (m)** | : | 133.000(Arb.) | | | |
| | | Opening Date | Closing Date | | |
| Gauge | : | 21/03/2013 | | | |
| Discharge | : | 21/03/2013 | | | |
| Sediment | : | | | | |
| Water Quality | : | | | | |

**Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)**

| | Maximum | | | Minimum | | |
|---|---|---|---|---|---|---|
| **Year** | **Q (cumecs)** | **WL (m)** | **Date** | **Q (cumecs)** | **WL (m)** | **Date** |
| 2013-2014 | 0.000 | Dry Bed | 01/06/2013 | 0.000 | Dry Bed | 01/06/2013 |
| 2014-2015 | 0.000 | Dry Bed | 01/06/2014 | 0.000 | Dry Bed | 01/06/2014 |

Q : Observed / Computed Discharge
WL : Corresponding Water Level(m.s.l)

## Stage-Discharge Data for the period 2015 - 2016

**Station Name : Nandalur ( APB00I2)** **Division : Hydrology Division, Chennai**

**Local River : Cheyyeru** **Sub-Division : Pennar SD, Cuddapa**

| Day | Jun | | Jul | | Aug | | Sep | | Oct | | Nov | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | W.L | Q | W.L | Q | W.L | Q | W.L | Q | W.L | Q | W.L | Q | |
| 1 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | |
| 2 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | |
| 3 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | |
| 4 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | |
| 5 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | |
| 6 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | |
| 7 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | |
| 8 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | |
| 9 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | |
| 10 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | |
| 11 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 136.105 | 143.2 | |
| 12 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 136.205 | 224.4 | |
| 13 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 136.070 | 157.9 | |
| 14 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 136.000 | 98.62 | |
| 15 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 136.050 | 89.93 | |
| 16 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 136.000 | 97.03 | |
| 17 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 137.000 | 1229 | * |
| 18 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 136.850 | 1047 | |
| 19 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 136.500 | 848.3 | |
| 20 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 136.380 | 736.3 | |
| 21 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 136.165 | 471.3 | |
| 22 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 135.840 | 319.6 | * |
| 23 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 136.200 | 531.8 | |
| 24 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 135.900 | 310.0 | |
| 25 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 136.130 | 488.6 | * |
| 26 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 135.900 | 300.1 | |
| 27 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 135.730 | 280.8 | |
| 28 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 135.730 | 277.0 | |
| 29 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 135.790 | 294.3 | * |
| 30 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 135.525 | 194.6 | |
| 31 | | | | 0.000 | | 0.000 | | | | 0.000 | | | |
| **Ten-Daily Mean** | | | | | | | | | | | | | |
| I Ten-Daily | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | |
| II Ten-Daily | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 136.316 | 467.2 | |
| III Ten-Daily | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 135.891 | 346.8 | |
| **Monthly** | | | | | | | | | | | | | |
| Min. | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 135.525 | 0.000 | |
| Max. | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 137.000 | 1229 | |
| Mean | | 0 | | 0 | | 0 | | 0 | | 0 | 136.104 | 271.3 | |

**Annual Runoff in MCM = 937** **Annual Runoff in mm =**

**Peak Observed Discharge = 1047 cumecs on 18/11/2015** **Corres. Water Level :136.85 m**

**Lowest Observed Discharge = 0.000 cumecs on 01/06/2015**

Q: Observed/Computed Discharge in cumecs

WL:Corresponding Mean Water Level(m.s.l) in m

*:Computed Discharge

#:Discarded Discharge (values changed as per rating curve)

*Note:Missing values ignored while arriving at Annual Runoff*

## Stage-Discharge Data for the period 2015 - 2016

**Station Name : Nandalur ( APB00I2)** **Division : Hydrology Division, Chennai**

**Local River : Cheyyeru** **Sub-Division : Pennar SD, Cuddapa**

| Day | Dec | | Jan | | Feb | | Mar | | Apr | | May | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | W.L | Q | WL | Q | WL | Q | WL | Q | WL | Q | WL | Q |
| 1 | 135.550 | 193.6 | 135.100 | 9.812 | 134.710 | 0.138 | 134.590 | 0.000 | | 0.000 | | 0.000 |
| 2 | 135.860 | 293.3 | 135.080 | 7.935 | 134.710 | 0.135 | 134.580 | 0.000 | | 0.000 | | 0.000 |
| 3 | 135.900 | 311.8 | 135.050 | 4.767 * | 134.670 | 0.000 | 134.580 | 0.000 | | 0.000 | | 0.000 |
| 4 | 135.600 | 211.5 | 135.020 | 2.402 | 134.670 | 0.000 | 134.570 | 0.000 | | 0.000 | | 0.000 |
| 5 | 135.640 | 226.5 | 135.010 | 2.225 | 134.670 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 6 | 135.600 | 203.7 * | 134.830 | 1.098 | 134.665 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 7 | 135.280 | 54.49 # | 134.830 | 1.134 | 134.665 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 8 | 135.600 | 212.6 | 134.820 | 1.020 | 134.660 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 9 | 135.500 | 180.3 | 134.800 | 0.729 | 134.660 | 0.000 | | 0.000 | | 0.000 | 135.100 | 10.33 |
| 10 | 135.500 | 179.4 | 134.780 | 0.560 * | 134.650 | 0.000 | | 0.000 | | 0.000 | 134.790 | 0.657 |
| 11 | 135.150 | 14.68 | 134.760 | 0.395 # | 134.650 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 12 | 135.200 | 30.44 # | 134.760 | 0.299 | 134.650 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 13 | 135.350 | 80.16 * | 134.750 | 0.277 | 134.650 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 14 | 135.500 | 183.0 | 134.750 | 0.280 | 134.650 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 15 | 135.310 | 39.42 | 134.740 | 0.263 * | 134.645 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 16 | 135.200 | 22.48 | 134.740 | 0.297 | 134.645 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 17 | 135.200 | 21.50 | 134.740 | 0.263 * | 134.645 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 18 | 135.215 | 23.17 | 134.735 | 0.241 | 134.640 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 19 | 135.250 | 26.55 | 134.730 | 0.205 | 134.640 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 20 | 135.310 | 42.87 * | 134.730 | 0.202 | 134.635 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 21 | 135.120 | 10.78 # | 134.730 | 0.208 # | 134.635 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 22 | 135.250 | 27.06 | 134.730 | 0.213 | 134.630 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 23 | 135.120 | 10.78 * | 134.735 | 0.235 | 134.630 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 24 | 135.080 | 7.018 | 134.735 | 0.235 * | 134.620 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 25 | 135.100 | 8.776 * | 134.730 | 0.208 | 134.610 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 26 | 135.100 | 11.29 | 134.730 | 0.208 * | 134.600 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 27 | 135.090 | 7.860 * | 134.728 | 0.199 | 134.600 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 28 | 135.040 | 4.077 | 134.725 | 0.199 | 134.600 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 29 | 135.090 | 7.860 # | 134.720 | 0.165 | 134.590 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 30 | 135.040 | 4.130 # | 134.720 | 0.165 | | | | 0.000 | | 0.000 | | 0.000 |
| 31 | 135.100 | 10.18 | 134.720 | 0.161 * | | | | 0.000 | | | | 0.000 |
| **Ten-Daily Mean** | | | | | | | | | | | | |
| I Ten-Daily | 135.603 | 206.7 | 134.932 | 3.168 | 134.673 | 0.027 | 134.580 | 0.000 | | 0.000 | 134.945 | 1.099 |
| II Ten-Daily | 135.269 | 48.43 | 134.743 | 0.272 | 134.645 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| III Ten-Daily | 135.103 | 9.982 | 134.727 | 0.200 | 134.613 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| **Monthly** | | | | | | | | | | | | |
| Min. | 135.040 | 4.077 | 134.720 | 0.161 | 134.590 | 0.000 | 134.570 | 0.000 | | 0.000 | 134.790 | 0.000 |
| Max. | 135.900 | 311.8 | 135.100 | 9.812 | 134.710 | 0.138 | 134.590 | 0.000 | | 0.000 | 135.100 | 10.33 |
| Mean | 135.318 | 85.85 | 134.799 | 1.181 | 134.645 | 0.009 | 134.580 | 0 | | 0 | 134.945 | 0.354 |

**Peak Computed Discharge = 1229 cumecs on 17/11/2015 Corres. Water Level :137 m**

**Lowest Computed Discharge = 0.161 cumecs on 31/01/2016 Corres. Water Level :134.72 m**

Q: Observed/Computed Discharge in cumecs

WL:Corresponding Mean Water Level(m.s.l) in m

*:Computed Discharge

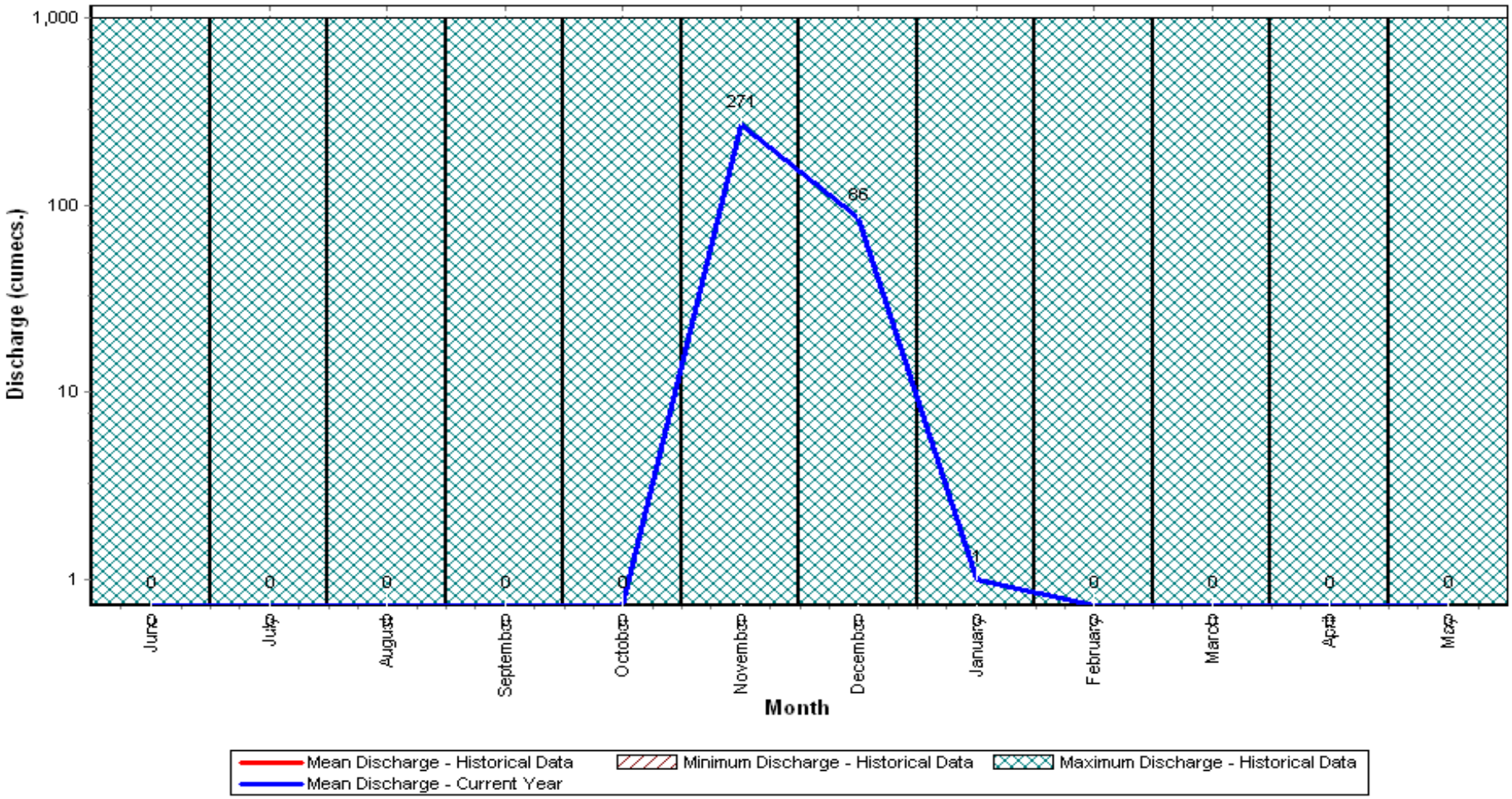
#:Discarded Discharge (values changed as per rating curve)

*Note:Missing values ignored while arriving at Annual Runoff*

**HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016**

**Station Name : Nandalur ( APB00I2)** | **Data considered : 2013-2016** | **Division : Hydrology Division, Chennai**

**Local River : Cheyyeru** | **Sub-Division : Pennar SD, Cuddapa**



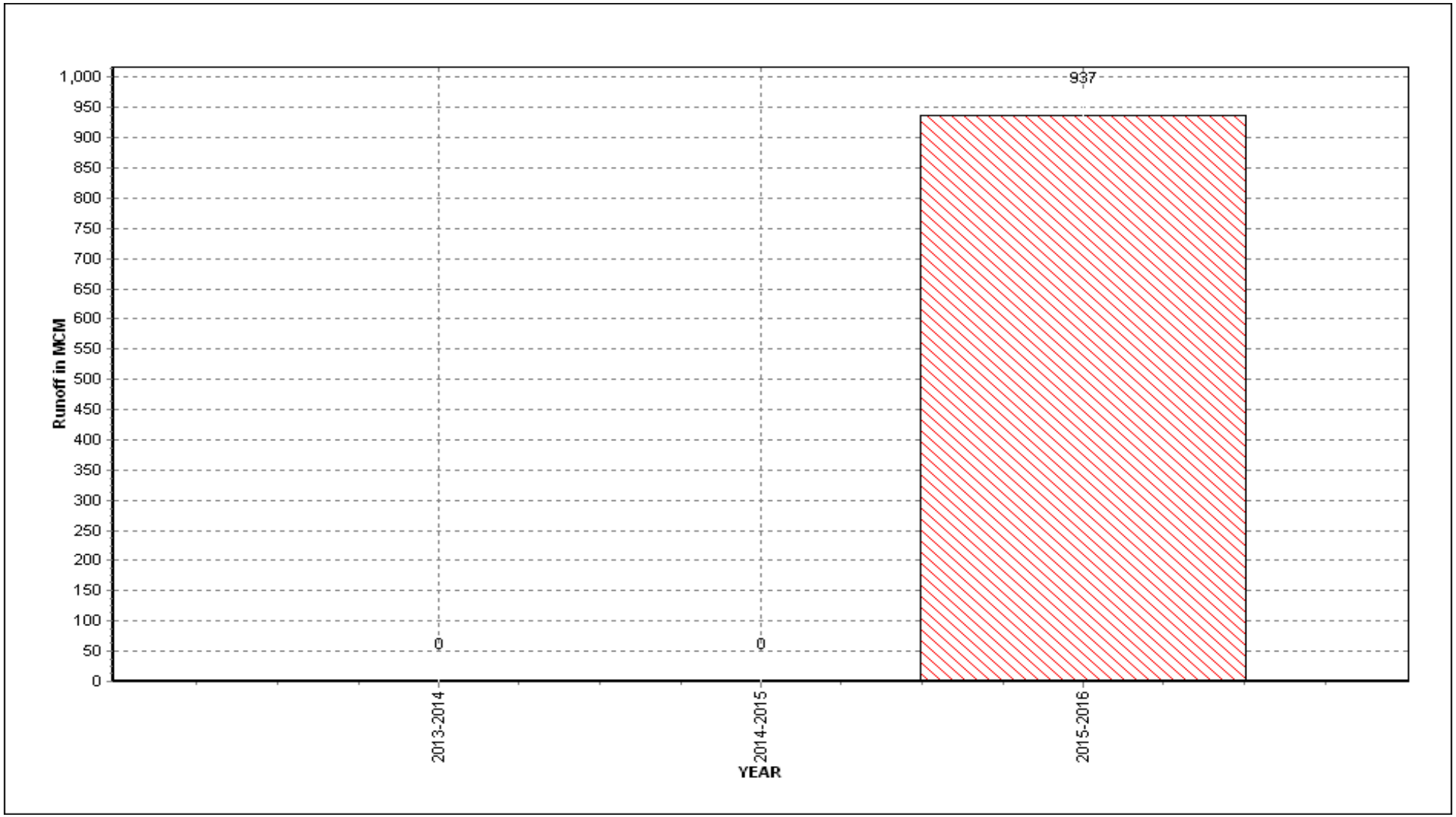
**Annual Runoff Values for the period: 2013 - 2016**

**Station Name : Nandalur ( APB00I2)**

**Local River : Cheyyeru**

**Division : Hydrology Division, Chennai**

**Sub-Division : Pennar SD, Cuddapa**

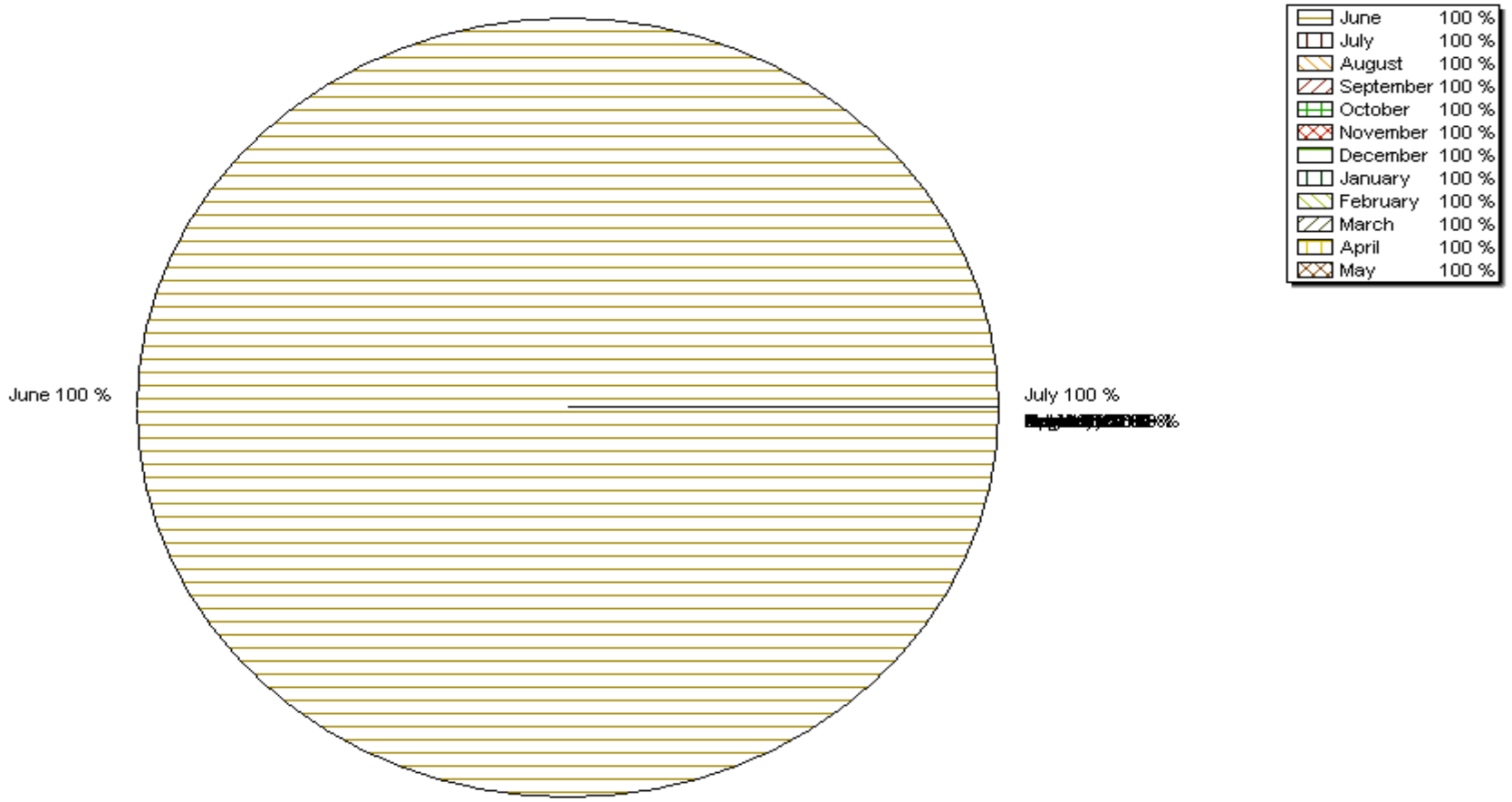



*Note: Missing values have not been considered while arriving at Annual Runoff*

**Monthly Average Runoff based on period : 2013-2015**

**Station Name : Nandalur ( APB00I2)**
**Local River : Cheyyeru**

**Division : Hydrology Division, Chennai**
**Sub-Division : Pennar SD, Cuddapa**




100

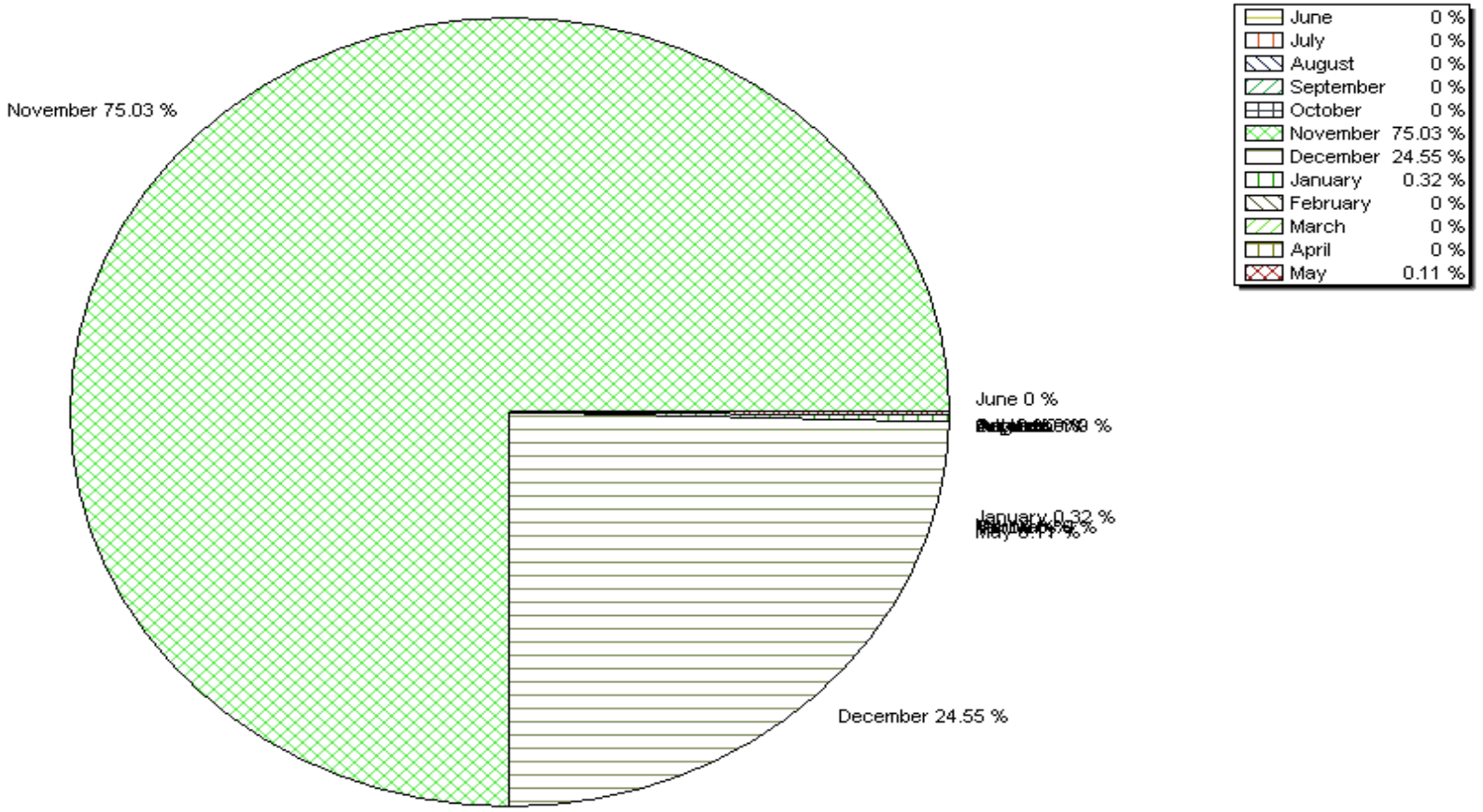
**Monthly Runoff for the Year : 2015-2016**

**Station Name : Nandalur ( APB00I2)**

**Local River : Cheyyeru**

**Division : Hydrology Division, Chennai**

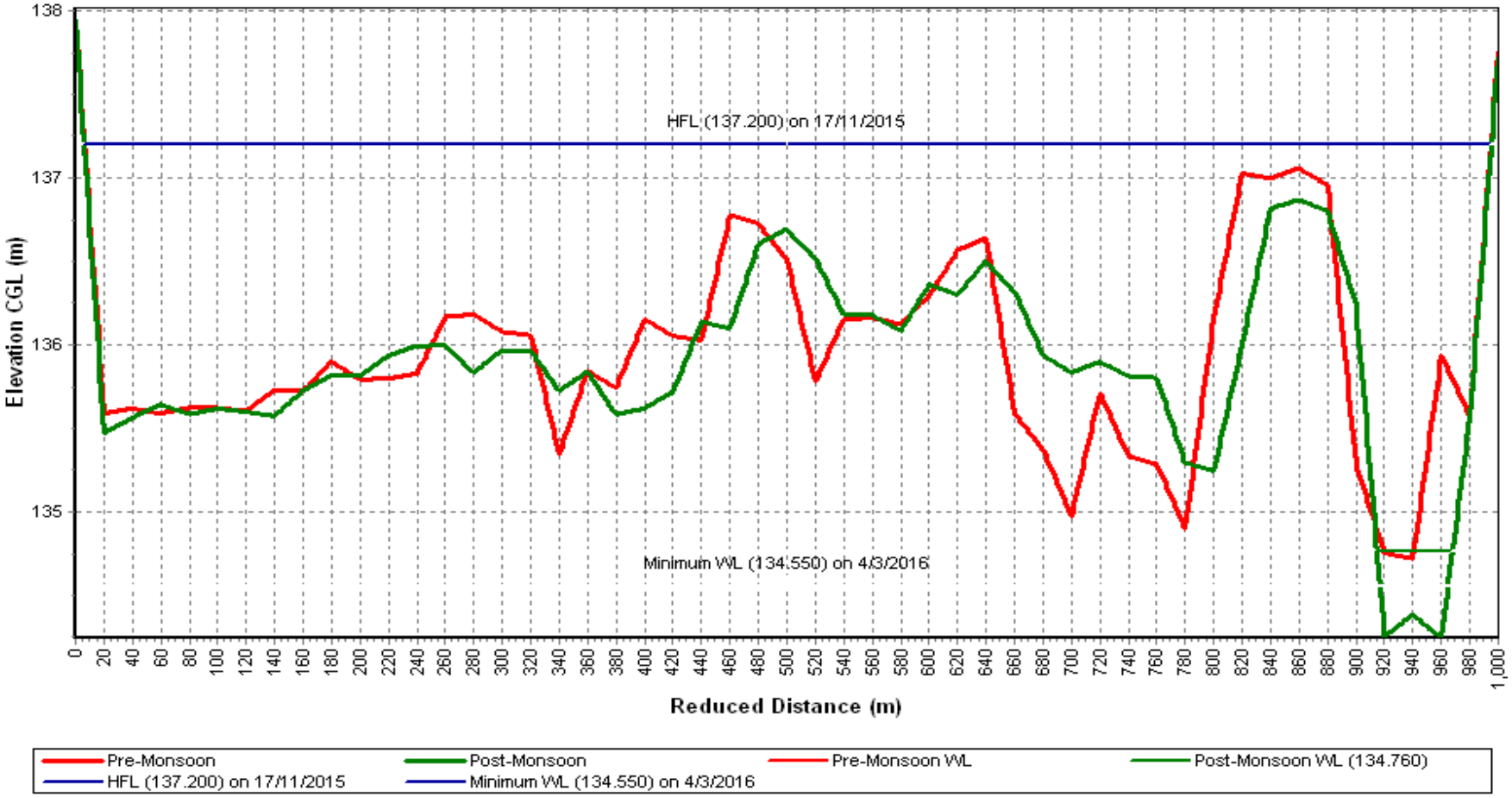
**Sub-Division : Pennar SD, Cuddapa**



**Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2015-2016**

**Station Name : Nandalur ( APB00I2)**
**Local River : Cheyyeru**

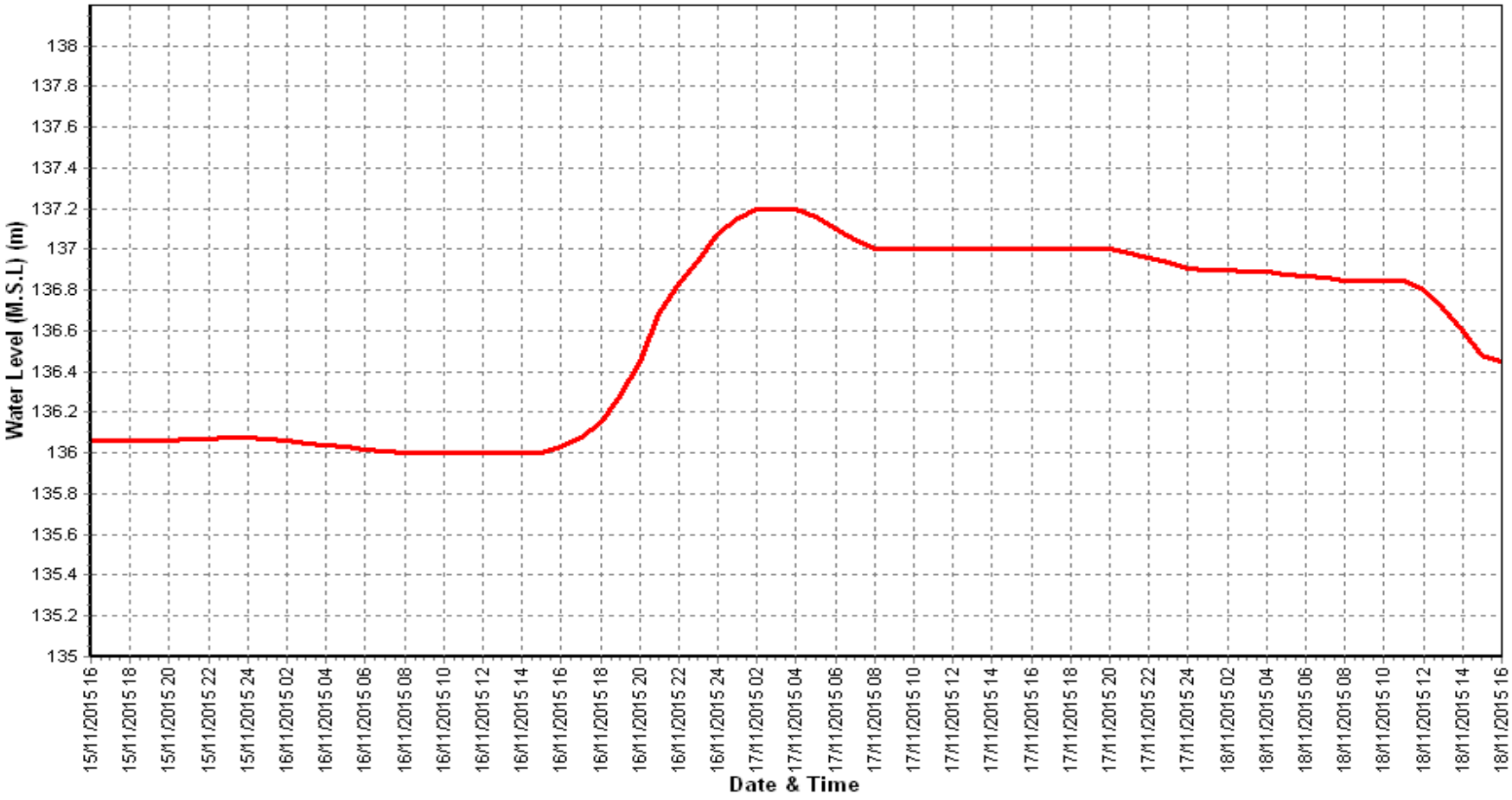
**Division : Hydrology Division, Chennai**
**Sub-Division : Pennar SD, Cuddapa**



**Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2015-2016**

**Station Name : Nandalur ( APB00I2)** **Division : Hydrology Division, Chennai**

**Local River : Cheyyeru** **Sub-Division : Pennar SD, Cuddapa**



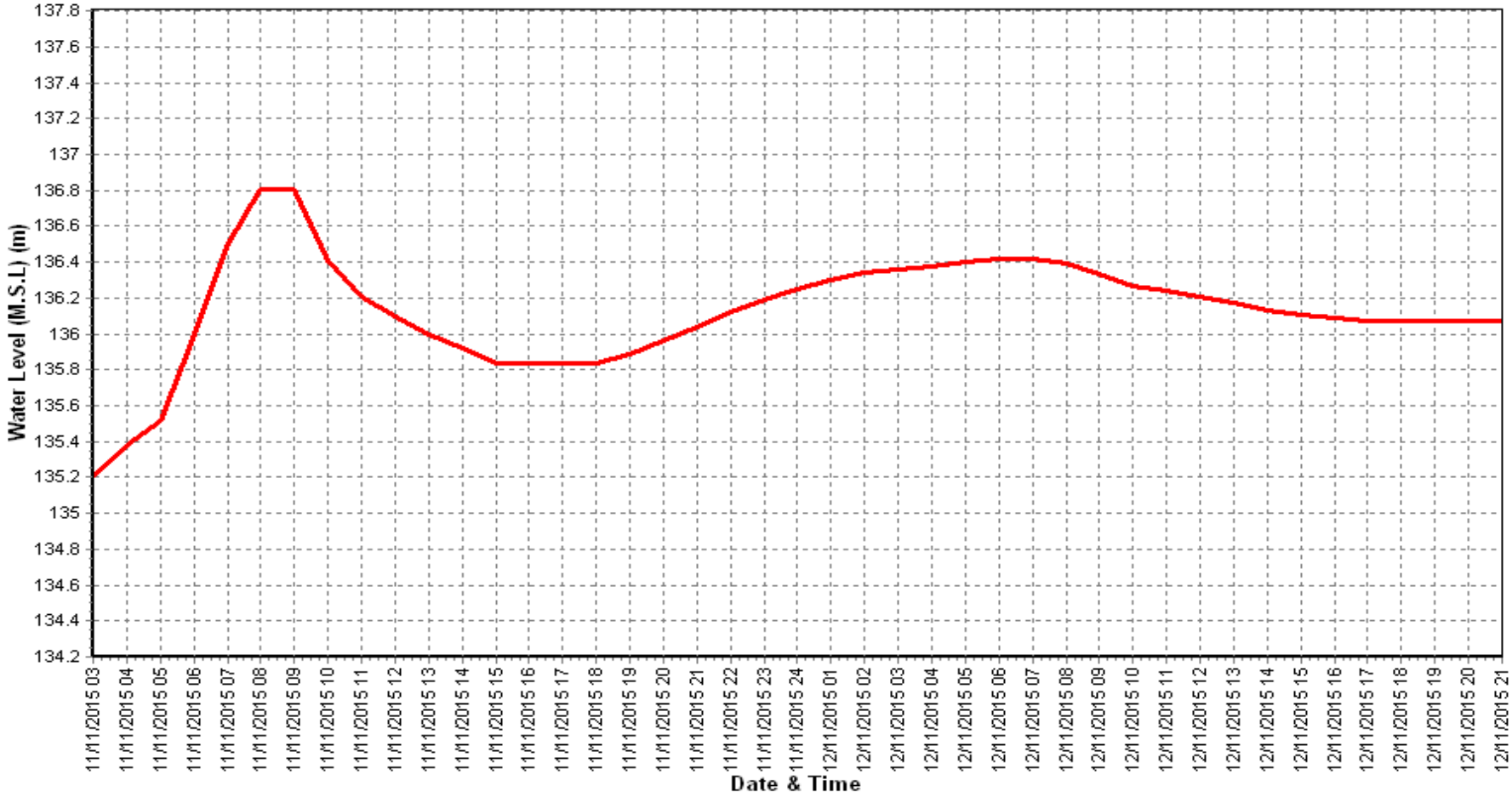



Time Span: 72 Hrs

**Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2015-2016**

**Station Name : Nandalur ( APB00I2)** **Division : Hydrology Division, Chennai**

**Local River : Cheyyeru** **Sub-Division : Pennar SD, Cuddapa**



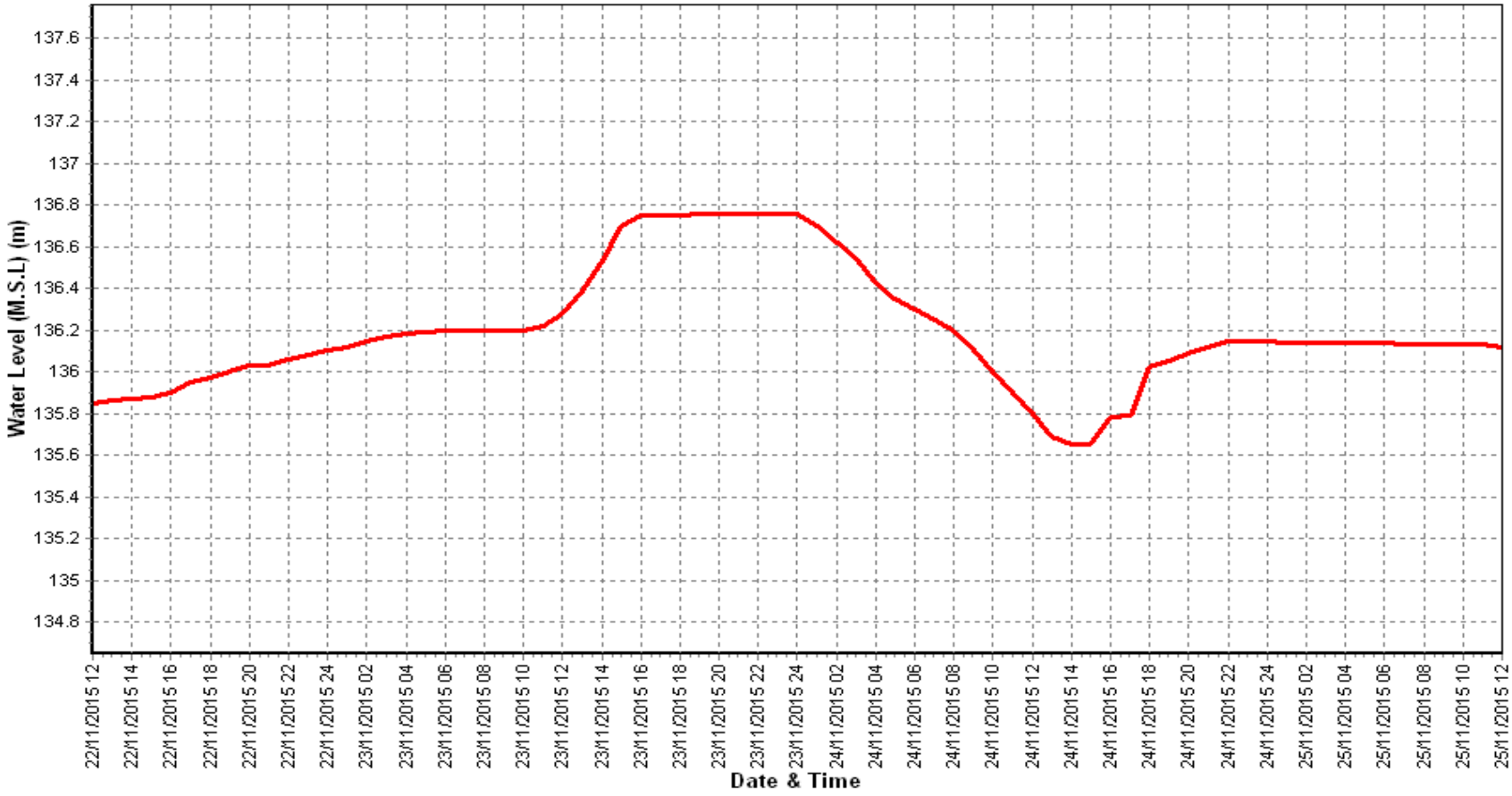



Time Span: 72 Hrs

**Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2015-2016**

**Station Name : Nandalur ( APB00I2)**
**Local River : Cheyyeru**

**Division : Hydrology Division, Chennai**
**Sub-Division : Pennar SD, Cuddapa**




Time Span: 72 Hrs

## HISTORY SHEET

**Water Year : 2015-2016**

| | | | | | |
|---|---|---|---|---|---|
| **Site** | **: Alladupalli** | | **Code** | **: APF00B8** | |
| State | : Andhra Pradesh | | District | Kadapa | |
| Basin | : Pennar | | Independent River | : Pennar | |
| Tributary | : Kunderu | | Sub Tributary | : | |
| Sub-Sub Tributary | : | | Local River | : Kunderu | |
| Division | : Hydrology Division, Chennai | | Sub-Division | : PSD, Kadapa | |
| Drainage Area | : 8758 Sq. Km. | | Bank | : Left | |
| Latitude | : 14°43'02" | | Longitude | : 78°40'07" | |
| **Zero of Gauge (m)** | : 94 .000(m.s.l)<br>132.955 (m.s.l) | | 18/07/1985<br>01/06/2003 | - 31/05/2003 | |
| | Opening Date | | Closing Date | | |
| Gauge | : 18/07/1985 | | | | |
| Discharge | : 21/08/1985 | | | | |
| Sediment | : 11/07/1996 | | | | |
| Water Quality | : 01/07/1987 | | | | |

**Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)**

| | Maximum | | | Minimum | | |
|---|---|---|---|---|---|---|
| **Year** | **Q (cumecs)** | **WL (m)** | **Date** | **Q (cumecs)** | **WL (m)** | **Date** |
| 1986-1987 | 359.8 | 97.650 | 21/09/1986 | 0.000 | 95.530 | 09/03/1987 |
| 1987-1988 | 869.9 | 99.470 | 15/08/1987 | 0.000 | Dry bed | 13/07/1987 |
| 1988-1989 | 1728 | 101.975 | 30/08/1988 | 0.000 | Dry bed | 27/06/1988 |
| 1989-1990 | 1355 | 100.720 | 17/07/1989 | 0.000 | Dry bed | 01/06/1989 |
| 1990-1991 | 1483 | 100.605 | 03/10/1990 | 0.000 | Dry bed | 04/07/1990 |
| 1991-1992 | 737.8 | 98.670 | 09/07/1991 | 0.000 | Dry bed | 14/04/1992 |
| 1992-1993 | 521.5 | 98.037 | 08/07/1992 | 0.000 | Dry bed | 15/06/1992 |
| 1993-1994 | 770.5 | 99.551 | 26/07/1993 | 0.000 | Dry bed | 19/06/1993 |
| 1994-1995 | 1839 | 102.300 | 07/10/1994 | 0.000 | Dry bed | 01/06/1994 |
| 1995-1996 | 427.6 | 98.550 | 30/08/1995 | 0.000 | Dry bed | 01/06/1995 |
| 1996-1997 | 2029 | 102.925 | 03/10/1996 | 0.000 | Dry bed | 01/06/1996 |
| 1997-1998 | 763.0 | 99.300 | 02/10/1997 | 0.000 | 95.160 | 01/06/1997 |
| 1998-1999 | 1523 | 101.280 | 12/10/1998 | 0.000 | Dry bed | 01/06/1998 |
| 1999-2000 | 519.9 | 98.475 | 21/08/1999 | 0.000 | Dry bed | 23/07/1999 |
| 2000-2001 | 4916 | 104.280 | 24/08/2000 | 0.000 | 95.300 | 21/02/2001 |
| 2001-2002 | 2758 | 102.450 | 18/10/2001 | 0.000 | Dry bed | 01/06/2001 |
| 2002-2003 | 507.8 | 97.805 | 15/10/2002 | 0.000 | Dry bed | 01/06/2002 |
| 2003-2004 | 560.9 | 136.965 | 23/10/2003 | 0.000 | Dry bed | 01/06/2003 |

Q : Observed / Computed Discharge
WL : Corresponding Water Level(m.s.l)

**Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)**

| | Maximum | | | Minimum | | |
|---|---|---|---|---|---|---|
| **Year** | **Q (cumecs)** | **WL (m)** | **Date** | **Q (cumecs)** | **WL (m)** | **Date** |
| 2004-2005 | 682.7 | 137.375 | 07/10/2004 | 0.000 | Dry bed | 01/06/2004 |
| 2005-2006 | 1887 | 139.550 | 29/10/2005 | 0.000 | 133.745 | 08/06/2005 |
| 2006-2007 | 646.1 | 137.865 | 17/09/2006 | 0.000 | Dry bed | 27/03/2006 |
| 2007-2008 | 2752 | 142.085 | 24/06/2007 | 0.000 | 133.515 | 04/06/2007 |
| 2008-2009 | 442.9 | 136.985 | 09/09/2008 | 0.000 | 133.545 | 25/06/2008 |
| 2009-2010 | 2667 | 141.650 | 06/10/2009 | 0.000 | 133.735 | 08/07/2009 |
| 2010-2011 | 854.7 | 137.815 | 26/08/2010 | 2.365 | 133.935 | 06/07/2010 |
| 2011-2012 | 1224 | 138.270 | 21/08/2011 | 0.583 | 133.495 | 22/04/2012 |
| 2012-2013 | 365.9 | 136.255 | 05/09/2012 | 0.000 | 133.425 | 03/04/2013 |
| 2013-2014 | 1244 | 138.125 | 18/08/2013 | 1.203 | 133.545 | 09/07/2013 |
| 2014-2015 | 1104 | 137.520 | 19/09/2014 | 0.000 | 133.385 | 06/07/2014 |

Q : Observed / Computed Discharge
WL : Corresponding Water Level(m.s.l)

## Stage-Discharge Data for the period 2015 - 2016

**Station Name : Alladupalli ( APF00B8)** **Division : Hydrology Division, Chennai**

**Local River : Kunderu** **Sub-Division : PSD, Kadapa**

| Day | Jun | | Jul | | Aug | | Sep | | Oct | | Nov | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | W.L | Q | W.L | Q | W.L | Q | W.L | Q | W.L | Q | W.L | Q |
| 1 | 133.355 | 0.000 | 133.465 | 2.355 | 133.295 | 0.000 | 133.295 | 0.000 | 134.025 | 24.77 | 133.355 | 0.000 |
| 2 | 133.345 | 0.000 | 133.495 | 2.995 | 133.295 | 0.000 | 133.295 | 0.000 | 133.975 | 20.60 * | 133.355 | 0.000 |
| 3 | 133.355 | 0.000 | 133.425 | 1.139 | 133.295 | 0.000 | 133.295 | 0.000 | 134.250 | 35.82 | 133.355 | 0.000 |
| 4 | 133.345 | 0.000 | 133.395 | 0.753 | 133.295 | 0.000 | 133.295 | 0.000 | 135.305 | 217.7 * | 133.355 | 0.000 |
| 5 | 133.345 | 0.000 | 133.345 | 0.000 | 133.295 | 0.000 | 133.245 | 0.000 | 134.705 | 97.70 # | 133.185 | 0.000 |
| 6 | 133.345 | 0.000 | 133.345 | 0.000 | 133.295 | 0.000 | 133.245 | 0.000 | 134.455 | 63.66 | 133.185 | 0.000 |
| 7 | 133.355 | 0.000 | 133.315 | 0.000 | 133.295 | 0.000 | 133.245 | 0.000 | 134.455 | 64.04 | 133.185 | 0.000 |
| 8 | 133.355 | 0.000 | 133.315 | 0.000 | 133.295 | 0.000 | 133.245 | 0.000 | 134.935 | 137.1 # | 133.155 | 0.000 |
| 9 | 133.365 | 0.000 | 133.285 | 0.000 | 133.295 | 0.000 | 133.245 | 0.000 | 135.010 | 172.8 | 133.125 | 0.000 |
| 10 | 133.365 | 0.000 | 133.285 | 0.000 | 133.295 | 0.000 | 133.525 | 3.430 | 134.545 | 83.08 | 133.235 | 0.000 |
| 11 | 133.365 | 0.000 | 133.285 | 0.000 | 133.295 | 0.000 | 134.785 | 109.8 # | 134.505 | 69.67 * | 133.305 | 0.000 |
| 12 | 133.375 | 0.000 | 133.285 | 0.000 | 133.295 | 0.000 | 135.545 | 257.9 | 134.305 | 39.31 | 133.305 | 0.000 |
| 13 | 133.375 | 0.000 | 133.285 | 0.000 | 133.295 | 0.000 | 135.235 | 189.9 * | 134.135 | 25.66 | 133.305 | 0.000 |
| 14 | 133.455 | 0.000 | 133.285 | 0.000 | 133.295 | 0.000 | 134.785 | 110.5 # | 134.135 | 25.63 | 133.305 | 0.000 |
| 15 | 133.545 | 4.016 | 133.285 | 0.000 | 133.295 | 0.000 | 134.235 | 31.72 | 134.025 | 24.02 | 133.305 | 0.000 |
| 16 | 133.515 | 3.228 | 133.285 | 0.000 | 133.295 | 0.000 | 134.255 | 34.49 | 133.835 | 15.65 | 133.335 | 0.000 |
| 17 | 133.505 | 3.018 | 133.285 | 0.000 | 133.295 | 0.000 | 134.135 | 31.84 * | 133.835 | 15.89 | 133.855 | 16.74 |
| 18 | 133.475 | 2.325 | 133.285 | 0.000 | 133.295 | 0.000 | 133.885 | 18.66 | 133.685 | 7.112 * | 133.955 | 19.48 |
| 19 | 133.465 | 2.147 | 133.285 | 0.000 | 133.295 | 0.000 | 133.965 | 19.35 | 133.555 | 3.048 | 133.805 | 14.16 |
| 20 | 133.475 | 2.314 | 133.595 | 4.444 | 133.295 | 0.000 | 133.965 | 19.99 * | 133.555 | 3.015 | 133.785 | 13.28 |
| 21 | 133.495 | 2.706 * | 133.595 | 4.447 | 133.355 | 0.641 # | 133.985 | 20.14 | 133.485 | 2.253 * | 133.955 | 20.96 |
| 22 | 133.495 | 2.470 | 133.475 | 2.661 | 134.155 | 36.15 # | 133.935 | 19.50 | 133.405 | 1.153 * | 133.955 | 19.40 * |
| 23 | 133.495 | 2.406 | 133.475 | 2.784 | 134.005 | 24.84 * | 133.935 | 19.97 | 133.405 | 1.153 # | 133.955 | 19.40 # |
| 24 | 133.495 | 2.437 | 133.435 | 1.594 | 134.005 | 24.84 # | 133.655 | 6.172 * | 133.405 | 1.153 * | 133.785 | 7.835 |
| 25 | 133.465 | 2.072 | 133.405 | 1.464 | 133.665 | 7.436 | 133.575 | 4.504 | 133.365 | 0.758 * | 133.775 | 10.42 * |
| 26 | 133.465 | 2.171 | 133.405 | 1.201 * | 133.525 | 3.432 | 133.575 | 4.554 | 133.355 | 0.000 | 133.595 | 4.430 |
| 27 | 133.435 | 1.870 | 133.525 | 3.451 | 133.415 | 1.320 | 135.055 | 160.8 * | 133.355 | 0.000 | 133.585 | 4.263 |
| 28 | 133.435 | 1.631 * | 133.525 | 3.543 | 133.345 | 0.000 | 135.195 | 220.7 | 133.355 | 0.000 | 133.585 | 4.197 |
| 29 | 133.465 | 2.242 | 133.525 | 3.415 | 133.295 | 0.000 | 135.195 | 213.0 | 133.355 | 0.000 | 133.585 | 4.279 * |
| 30 | 133.465 | 2.390 | 133.525 | 3.169 | 133.295 | 0.000 | 134.315 | 39.99 | 133.355 | 0.000 | 133.555 | 3.576 |
| 31 | | | 133.365 | 0.738 | 133.295 | 0.000 | | | 133.355 | 0.000 | | |
| **Ten-Daily Mean** | | | | | | | | | | | | |
| I Ten-Daily | 133.353 | 0.000 | 133.367 | 0.724 | 133.295 | 0.000 | 133.293 | 0.343 | 134.566 | 91.73 | 133.249 | 0.000 |
| II Ten-Daily | 133.455 | 1.705 | 133.316 | 0.444 | 133.295 | 0.000 | 134.479 | 82.41 | 133.957 | 22.90 | 133.526 | 6.365 |
| III Ten-Daily | 133.471 | 2.240 | 133.478 | 2.588 | 133.578 | 8.969 | 134.242 | 70.94 | 133.381 | 0.588 | 133.733 | 9.876 |
| **Monthly** | | | | | | | | | | | | |
| Min. | 133.345 | 0.000 | 133.285 | 0.000 | 133.295 | 0.000 | 133.245 | 0.000 | 133.355 | 0.000 | 133.125 | 0.000 |
| Max. | 133.545 | 4.016 | 133.595 | 4.447 | 134.155 | 36.15 | 135.545 | 257.9 | 135.305 | 217.7 | 133.955 | 20.96 |
| Mean | 133.426 | 1.315 | 133.390 | 1.295 | 133.395 | 3.183 | 134.005 | 51.23 | 133.949 | 37.19 | 133.503 | 5.414 |

**Annual Runoff in MCM = 279 Annual Runoff in mm = 32**

**Peak Observed Discharge = 257.9 cumecs on 12/09/2015 Corres. Water Level :135.545 m**

**Lowest Observed Discharge = 0.000 cumecs on 01/06/2015 Corres. Water Level :133.355 m**

Q: Observed/Computed Discharge in cumecs

WL:Corresponding Mean Water Level(m.s.l) in m

*:Computed Discharge

#:Discarded Discharge (values changed as per rating curve)

*Note:Missing values ignored while arriving at Annual Runoff*

## Stage-Discharge Data for the period 2015 - 2016

**Station Name : Alladupalli ( APF00B8)** **Division : Hydrology Division, Chennai**

**Local River : Kunderu** **Sub-Division : PSD, Kadapa**

| Day | Dec | | Jan | | Feb | | Mar | | Apr | | May | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | W.L | Q | WL | Q | WL | Q | WL | Q | WL | Q | WL | Q |
| 1 | 133.595 | 4.485 | 133.405 | 0.656 | 133.355 | 0.000 | | 0.000 | 133.325 | 0.000 | 133.325 | 0.000 |
| 2 | 133.595 | 4.477 | 133.405 | 0.660 | 133.355 | 0.000 | | 0.000 | 133.325 | 0.000 | 133.325 | 0.000 |
| 3 | 133.885 | 14.57 | 133.395 | 0.585 * | 133.305 | 0.000 | | 0.000 | 133.325 | 0.000 | 133.325 | 0.000 |
| 4 | 133.775 | 7.691 | 133.385 | 0.512 | 133.305 | 0.000 | | 0.000 | 133.325 | 0.000 | 133.325 | 0.000 |
| 5 | 133.755 | 7.732 | 133.375 | 0.396 | 133.305 | 0.000 | | 0.000 | 133.455 | 1.147 # | 133.280 | 0.000 |
| 6 | 133.745 | 7.994 * | 133.345 | 0.000 | 133.305 | 0.000 | | 0.000 | 133.455 | 1.147 # | 133.280 | 0.000 |
| 7 | 133.715 | 6.952 | 133.325 | 0.000 | 133.305 | 0.000 | | 0.000 | 133.455 | 1.147 # | 133.280 | 0.000 |
| 8 | 133.685 | 6.143 | 133.305 | 0.000 | 133.305 | 0.000 | | 0.000 | 133.455 | 1.147 # | 133.280 | 0.000 |
| 9 | 133.675 | 6.534 | 133.295 | 0.000 | 133.305 | 0.000 | | 0.000 | 133.455 | 1.147 # | 133.280 | 0.000 |
| 10 | 133.615 | 5.081 | 133.295 | 0.000 | 133.235 | 0.000 | | 0.000 | 133.455 | 1.147 * | 133.280 | 0.000 |
| 11 | 133.695 | 6.153 | 133.295 | 0.000 | 133.235 | 0.000 | | 0.000 | 133.455 | 1.147 # | 133.265 | 0.000 |
| 12 | 133.685 | 6.231 | 133.295 | 0.000 | 133.235 | 0.000 | | 0.000 | 133.555 | 2.698 | 133.265 | 0.000 |
| 13 | 133.655 | 5.812 * | 133.265 | 0.000 | 133.235 | 0.000 | | 0.000 | 133.555 | 2.648 | 133.265 | 0.000 |
| 14 | 133.615 | 5.483 | 133.255 | 0.000 | 133.235 | 0.000 | | 0.000 | 133.555 | 2.607 * | 133.265 | 0.000 |
| 15 | 133.555 | 4.307 | 133.255 | 0.000 | 133.235 | 0.000 | | 0.000 | 133.555 | 2.634 | 133.265 | 0.000 |
| 16 | 133.535 | 3.916 | 133.255 | 0.000 | 133.235 | 0.000 | 133.605 | 2.776 | 133.555 | 3.027 | 133.265 | 0.000 |
| 17 | 133.485 | 2.942 | 133.255 | 0.000 | 133.235 | 0.000 | 133.605 | 3.049 | 133.555 | 2.607 * | 133.265 | 0.000 |
| 18 | 133.485 | 2.889 | 133.245 | 0.000 | 133.235 | 0.000 | 133.605 | 2.983 | 133.555 | 3.031 | 133.265 | 0.000 |
| 19 | 133.475 | 2.031 | 133.255 | 0.000 | 133.235 | 0.000 | 133.605 | 3.157 | 133.555 | 3.118 | 133.265 | 0.000 |
| 20 | 133.455 | 2.311 * | 133.285 | 0.000 | 133.235 | 0.000 | 133.505 | 1.791 * | 133.555 | 2.607 * | 133.265 | 0.000 |
| 21 | 133.425 | 0.827 | 133.335 | 0.000 | 133.235 | 0.000 | 133.465 | 1.262 # | 133.555 | 3.013 | 133.265 | 0.000 |
| 22 | 133.425 | 0.836 | 133.335 | 0.000 | 133.235 | 0.000 | 133.375 | 0.445 | 133.655 | 4.902 | 133.265 | 0.000 |
| 23 | 133.425 | 0.838 * | 133.335 | 0.000 | 133.235 | 0.000 | 133.345 | 0.000 | 133.655 | 4.871 | 133.265 | 0.000 |
| 24 | 133.405 | 0.688 | 133.335 | 0.000 | 133.235 | 0.000 | 133.325 | 0.000 | 133.655 | 4.800 * | 133.265 | 0.000 |
| 25 | 133.405 | 0.663 * | 133.335 | 0.000 | 133.235 | 0.000 | 133.325 | 0.000 | 133.555 | 3.374 | 133.265 | 0.000 |
| 26 | 133.405 | 0.684 | 133.345 | 0.000 | 133.235 | 0.000 | 133.325 | 0.000 | 133.475 | 1.384 # | 133.245 | 0.000 |
| 27 | 133.405 | 0.663 * | 133.355 | 0.000 | 133.235 | 0.000 | 133.325 | 0.000 | 133.455 | 1.147 # | 133.245 | 0.000 |
| 28 | 133.405 | 0.643 | 133.355 | 0.000 | | 0.000 | 133.325 | 0.000 | 133.325 | 0.000 | 133.245 | 0.000 |
| 29 | 133.405 | 0.656 | 133.355 | 0.000 | | 0.000 | 133.325 | 0.000 | 133.325 | 0.000 | 133.245 | 0.000 |
| 30 | 133.405 | 0.657 | 133.355 | 0.000 | | | 133.325 | 0.000 | 133.325 | 0.000 | 133.245 | 0.000 |
| 31 | 133.405 | 0.658 | 133.355 | 0.000 | | | 133.325 | 0.000 | | | 133.245 | 0.000 |
| **Ten-Daily Mean** | | | | | | | | | | | | |
| I Ten-Daily | 133.704 | 7.166 | 133.353 | 0.281 | 133.308 | 0.000 | | 0.000 | 133.403 | 0.688 | 133.298 | 0.000 |
| II Ten-Daily | 133.564 | 4.208 | 133.266 | 0.000 | 133.235 | 0.000 | 133.585 | 1.376 | 133.545 | 2.612 | 133.265 | 0.000 |
| III Ten-Daily | 133.410 | 0.710 | 133.345 | 0.000 | 133.235 | 0.000 | 133.344 | 0.155 | 133.498 | 2.349 | 133.254 | 0.000 |
| **Monthly** | | | | | | | | | | | | |
| Min. | 133.405 | 0.643 | 133.245 | 0.000 | 133.235 | 0.000 | 133.325 | 0.000 | 133.325 | 0.000 | 133.245 | 0.000 |
| Max. | 133.885 | 14.57 | 133.405 | 0.660 | 133.355 | 0.000 | 133.605 | 3.157 | 133.655 | 4.902 | 133.325 | 0.000 |
| Mean | 133.555 | 3.921 | 133.322 | 0.091 | 133.262 | 0 | 133.419 | 0.499 | 133.482 | 1.883 | 133.272 | 0 |

**Peak Computed Discharge = 217.7 cumecs on 04/10/2015 Corres. Water Level :135.305 m**

**Lowest Computed Discharge = 0.585 cumecs on 03/01/2016 Corres. Water Level :133.395 m**

Q: Observed/Computed Discharge in cumecs

WL:Corresponding Mean Water Level(m.s.l) in m

*:Computed Discharge

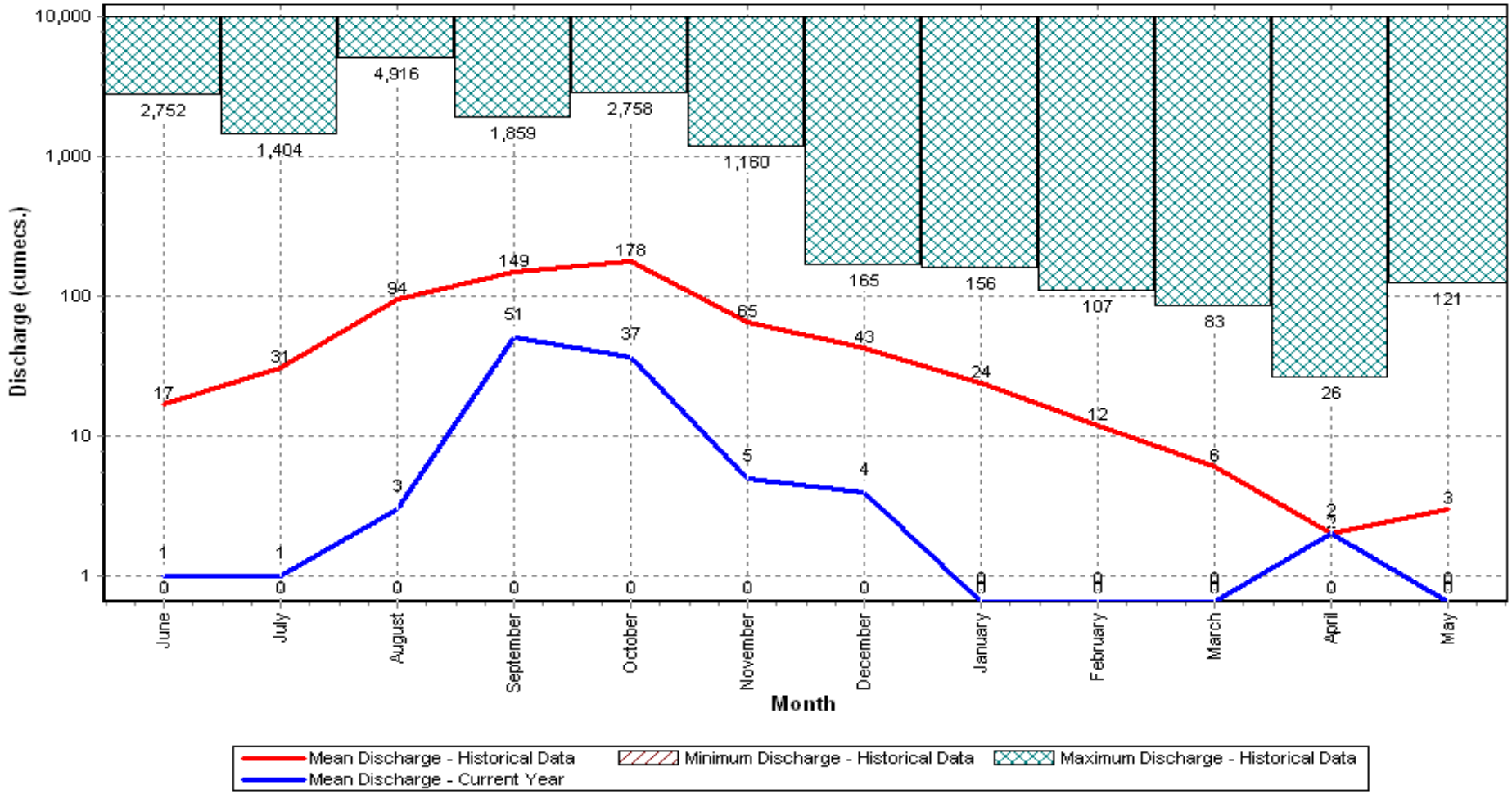
#:Discarded Discharge (values changed as per rating curve)

*Note:Missing values ignored while arriving at Annual Runoff*

**HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016**

**Station Name : Alladupalli ( APF00B8)** | **Data considered : 1986-2016** | **Division : Hydrology Division, Chennai**

**Local River : Kunderu** | **Sub-Division : PSD, Kadapa**


Discharge (cumecs.)
10,000
1,000
100
10
1
Month
June
July
August
September
October
November
December
January
February
March
April
May
2,752
1,404
4,916
1,859
2,758
1,160
165
156
107
83
26
121
17
31
94
149
178
65
43
24
12
6
3
1
1
3
51
37
5
4
0
0
0

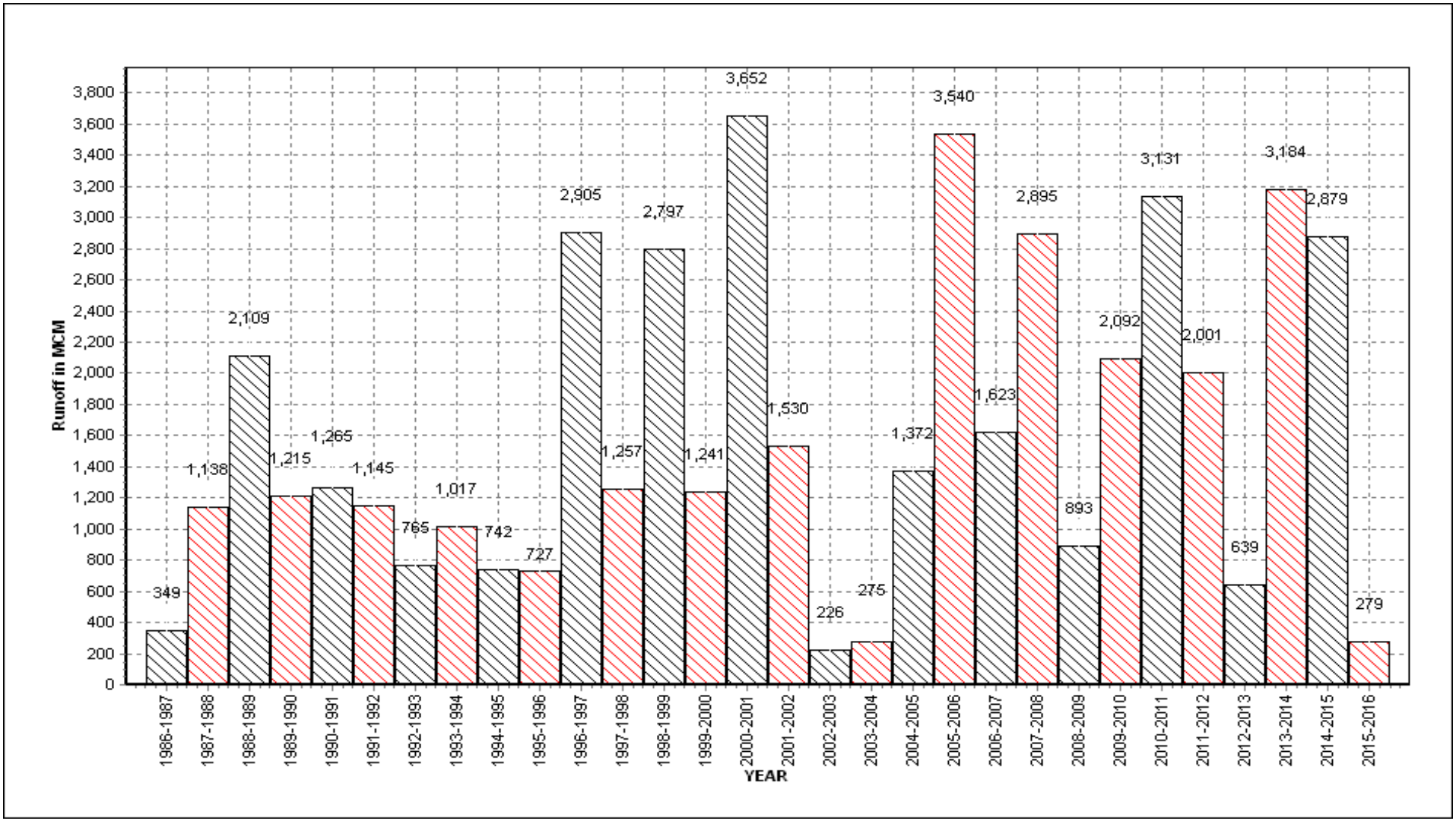
**Annual Runoff Values for the period: 1986 - 2016**

**Station Name : Alladupalli ( APF00B8)**

**Local River : Kunderu**

**Division : Hydrology Division, Chennai**

**Sub-Division : PSD, Kadapa**




*Note: Missing values have not been considered while arriving at Annual Runoff*

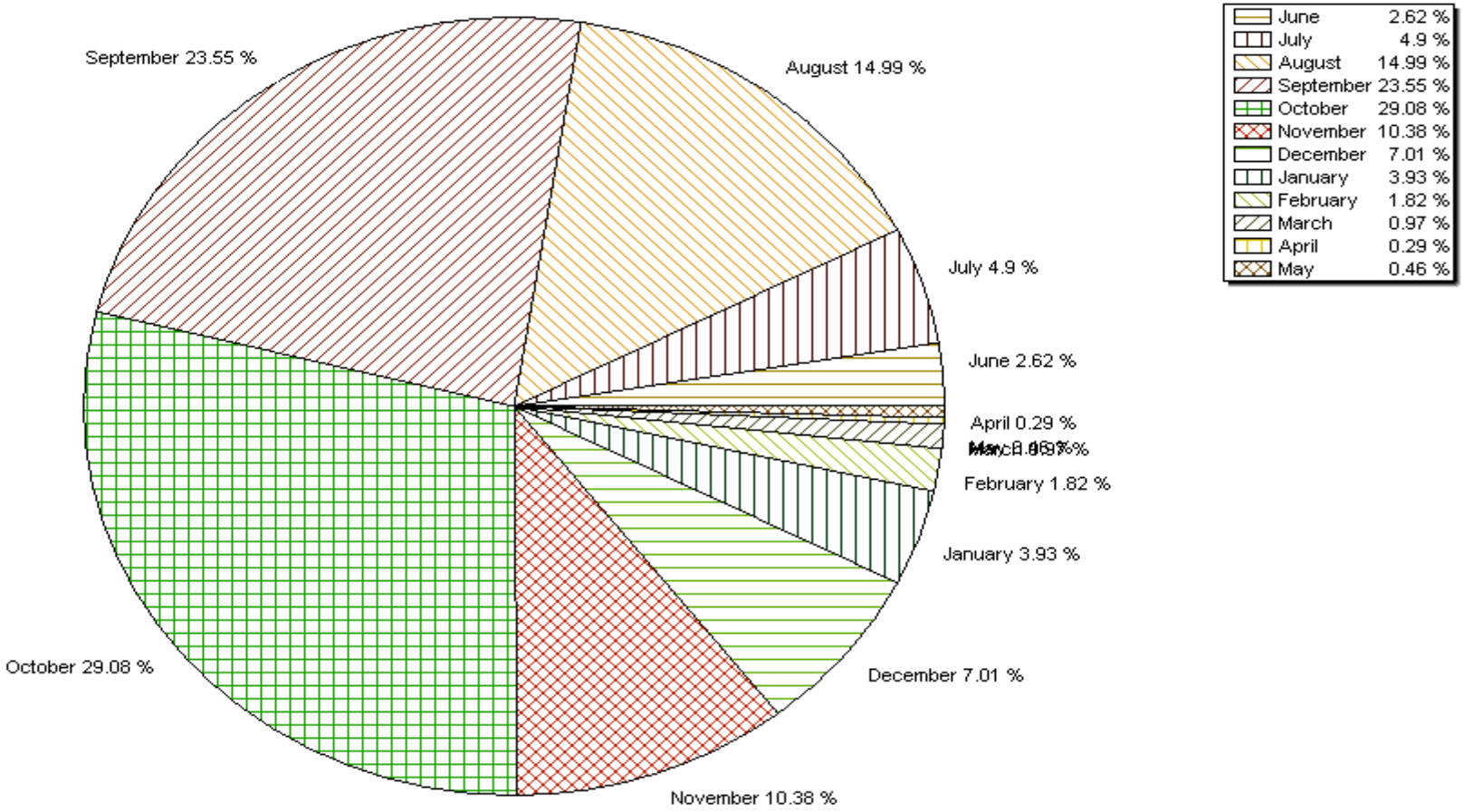
**Monthly Average Runoff based on period : 1986-2015**

**Station Name : Alladupalli ( APF00B8)**

**Division : Hydrology Division, Chennai**

**Local River : Kunderu**

**Sub-Division : PSD, Kadapa**



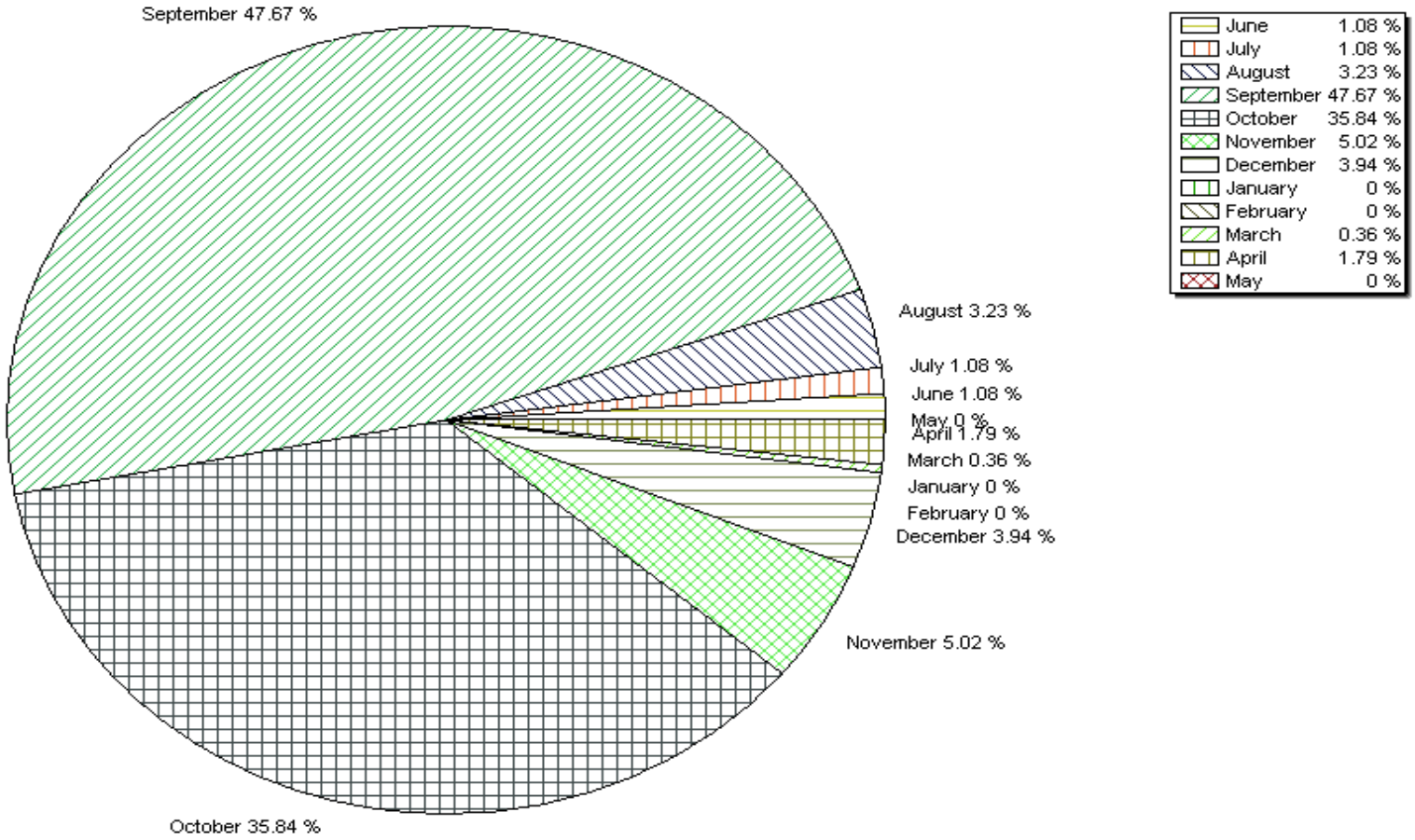
**Monthly Runoff for the Year : 2015-2016**

**Station Name : Alladupalli ( APF00B8)**

**Local River : Kunderu**

**Division : Hydrology Division, Chennai**

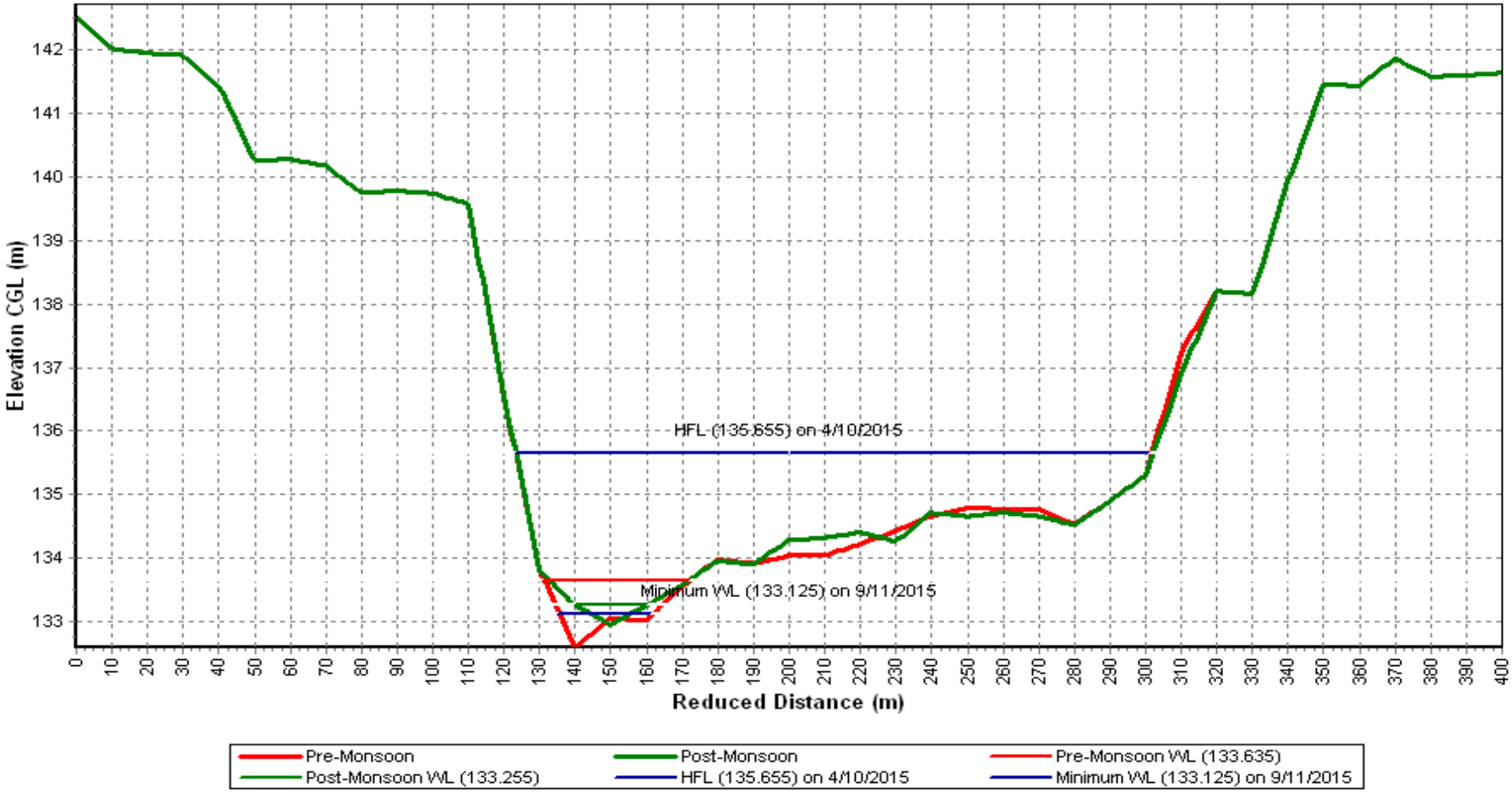
**Sub-Division : PSD, Kadapa**



**Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2015-2016**

**Station Name : Alladupalli ( APF00B8)** **Division : Hydrology Division, Chennai**

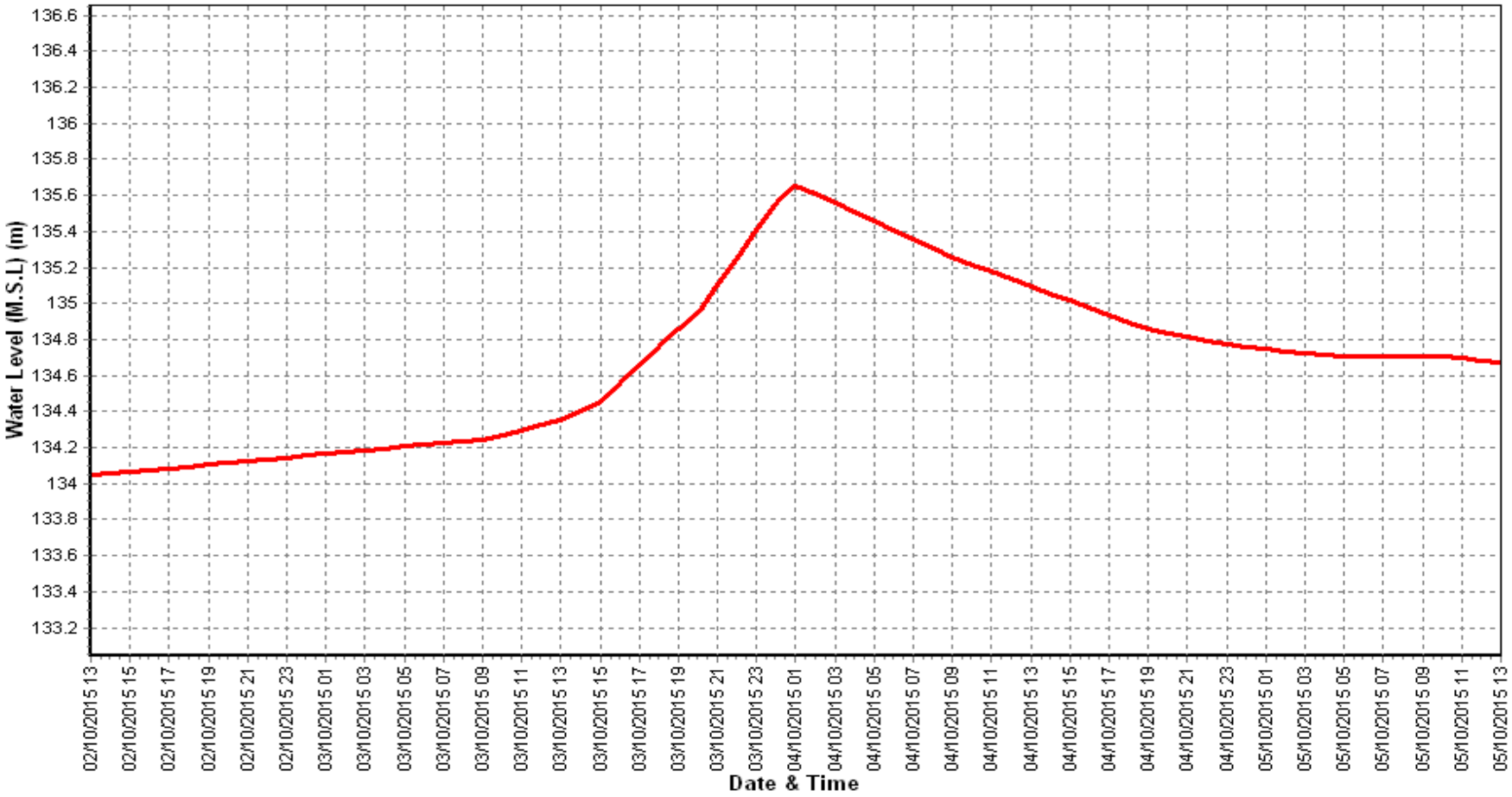
**Local River : Kunderu** **Sub-Division : PSD, Kadapa**



**Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2015-2016**

**Station Name : Alladupalli ( APF00B8)** **Division : Hydrology Division, Chennai**

**Local River : Kunderu** **Sub-Division : PSD, Kadapa**

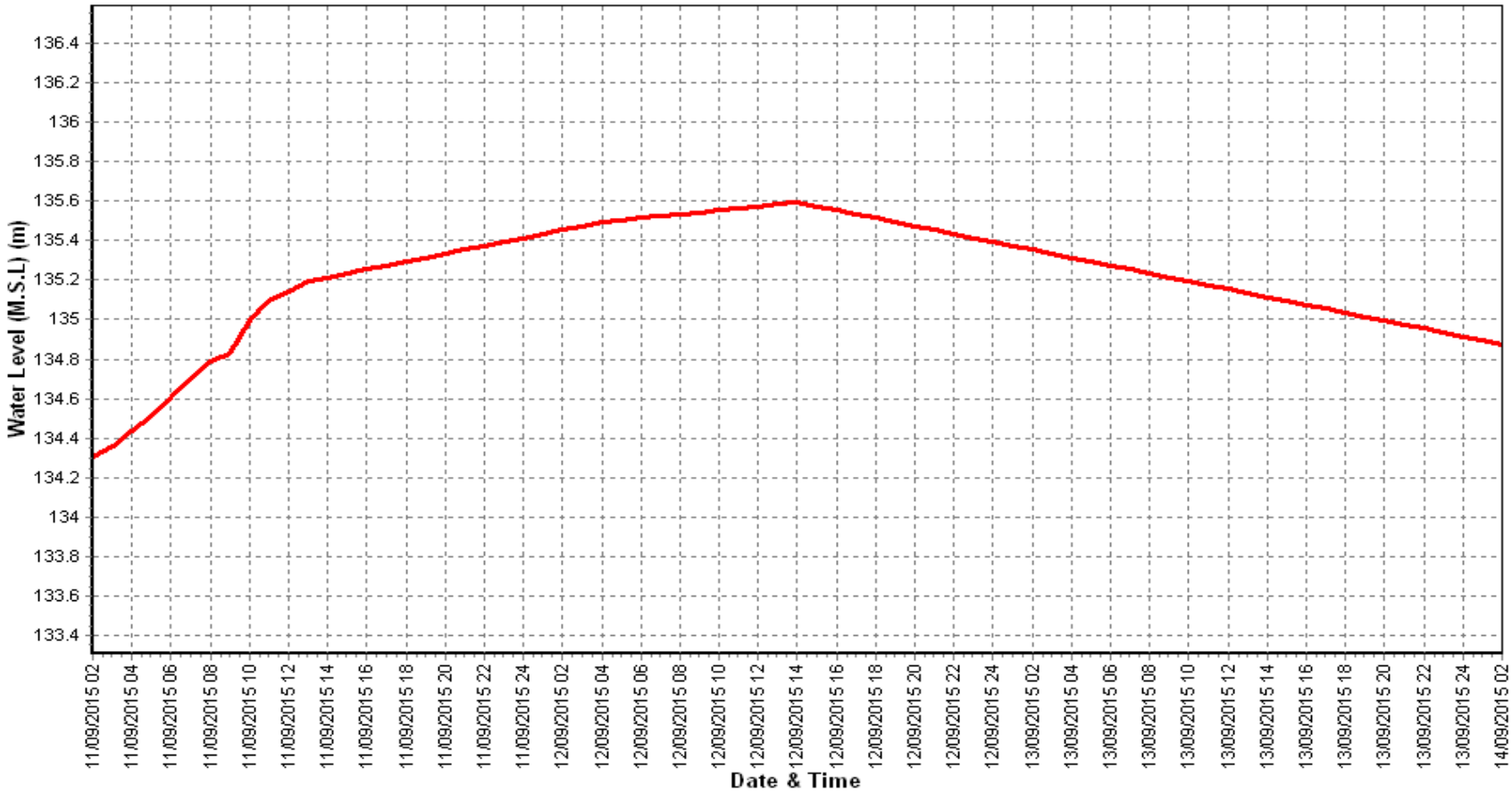



Time Span: 72 Hrs

**Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2015-2016**

**Station Name : Alladupalli ( APF00B8)** **Division : Hydrology Division, Chennai**

**Local River : Kunderu** **Sub-Division : PSD, Kadapa**



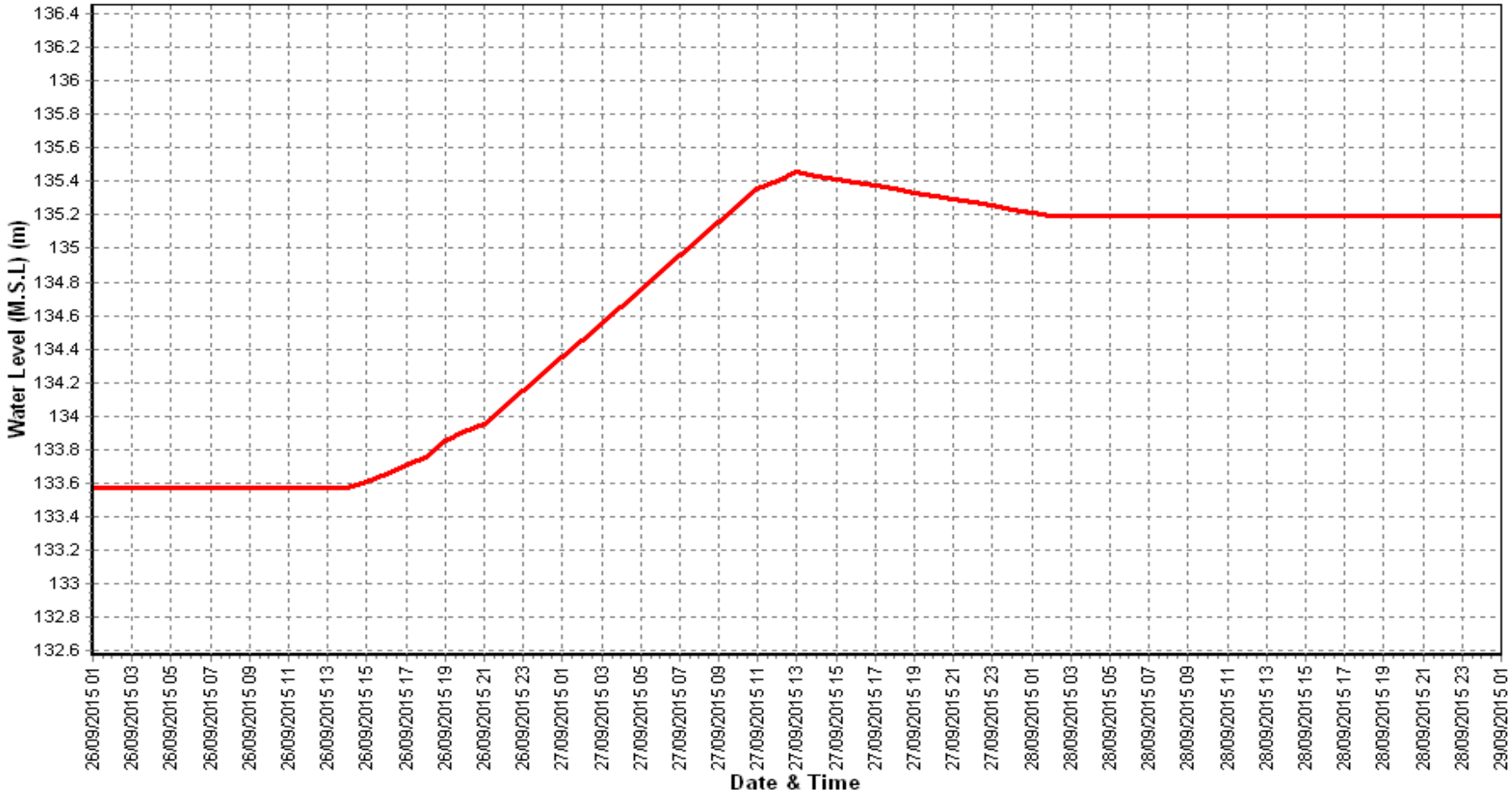



Time Span: 72 Hrs

**Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2015-2016**

**Station Name : Alladupalli ( APF00B8)** **Division : Hydrology Division, Chennai**

**Local River : Kunderu** **Sub-Division : PSD, Kadapa**






Time Span: 72 Hrs

## HISTORY SHEET

**Water Year : 2015-2016**

| | | | | | |
|---|---|---|---|---|---|
| **Site** | **: Singavaram** | | **Code** | **: APG00E4** | |
| State | : Andhra Pradesh | | District | Anantapur | |
| Basin | : Pennar | | Independent River | : Pennar | |
| Tributary | : Chitravathi | | Sub Tributary | : | |
| Sub-Sub Tributary | : | | Local River | : Chitravathi | |
| Division | : Hydrology Division, Chennai | | Sub-Division | : Pennar SD, Kadapa | |
| Drainage Area | : 6262 Sq. Km. | | Bank | : Right | |
| Latitude | : 14°35'52" | | Longitude | : 78°00'48" | |
| **Zero of Gauge (m)** | : 256.000 (m.s.l)<br>256.465 (m.s.l) | | 24/09/1979<br>01/06/1981 | - 31/05/1981 | |
| | Opening Date | | Closing Date | | |
| Gauge | : 24/09/1979 | | | | |
| Discharge | : 25/09/1979 | | | | |
| Sediment | : | | | | |
| Water Quality | : 15/09/1981 | | | | |

**Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)**

| | Maximum | | | Minimum | | |
|---|---|---|---|---|---|---|
| **Year** | **Q (cumecs)** | **WL (m)** | **Date** | **Q (cumecs)** | **WL (m)** | **Date** |
| 1980-1981 | 0.000 | Dry Bed | 01/06/1980 | 0.000 | Dry Bed | 01/06/1980 |
| 1981-1982 | 236.2 | 259.245 | 04/09/1981 | 0.000 | Dry Bed | 01/06/1981 |
| 1982-1983 | 69.80 | 258.670 | 06/11/1982 | 0.000 | Dry Bed | 01/06/1982 |
| 1983-1984 | 184.5 | 259.115 | 12/09/1983 | 0.000 | Dry Bed | 01/06/1983 |
| 1984-1985 | 10.90 | 257.975 | 10/10/1984 | 0.000 | Dry Bed | 01/06/1984 |
| 1985-1986 | 121.5 | 258.865 | 07/10/1985 | 0.000 | Dry Bed | 01/06/1985 |
| 1986-1987 | 92.20 | 258.715 | 08/10/1986 | 0.000 | Dry Bed | 01/06/1986 |
| 1987-1988 | 101.0 | 258.765 | 28/06/1987 | 0.000 | Dry Bed | 01/06/1987 |
| 1988-1989 | 878.0 | 260.355 | 12/09/1988 | 0.000 | 257.065 | 21/01/1989 |
| 1989-1990 | 620.0 | 259.830 | 17/07/1989 | 0.000 | 256.945 | 01/06/1989 |
| 1990-1991 | 25.70 | 257.465 | 25/10/1990 | 0.000 | 256.905 | 01/06/1990 |
| 1991-1992 | 221.6 | 258.000 | 31/10/1991 | 0.000 | Dry Bed | 01/06/1991 |
| 1992-1993 | 17.10 | 257.460 | 21/11/1992 | 0.000 | Dry Bed | 01/06/1992 |
| 1993-1994 | 2.890 | 257.218 | 23/09/1993 | 0.000 | Dry Bed | 01/06/1993 |
| 1994-1995 | 0.000 | Dry Bed | 01/06/1994 | 0.000 | Dry Bed | 01/06/1994 |
| 1995-1996 | 68.43 | 257.765 | 13/09/1995 | 0.000 | Dry Bed | 01/06/1995 |
| 1996-1997 | 643.0 | 259.415 | 21/10/1996 | 0.000 | Dry Bed | 01/06/1996 |
| 1997-1998 | 95.00 | 257.785 | 12/09/1997 | 0.000 | 256.645 | 01/06/1997 |

Q : Observed / Computed Discharge
WL : Corresponding Water Level(m.s.l)

**Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)**

| | Maximum | | | Minimum | | |
|---|---|---|---|---|---|---|
| **Year** | **Q (cumecs)** | **WL (m)** | **Date** | **Q (cumecs)** | **WL (m)** | **Date** |
| 1998-1999 | 219.0 | 258.215 | 15/10/1998 | 0.000 | Dry Bed | 01/06/1998 |
| 1999-2000 | 68.22 | 257.185 | 01/10/1999 | 0.000 | Dry Bed | 01/06/1999 |
| 2000-2001 | 17.01 | 257.055 | 24/10/2000 | 0.000 | Dry Bed | 01/06/2000 |
| 2001-2002 | 274.6 | 258.115 | 19/10/2001 | 0.000 | Dry Bed | 01/06/2001 |
| 2002-2003 | 0.000 | Dry Bed | 04/10/2002 | 0.000 | Dry Bed | 01/06/2002 |
| 2003-2004 | 0.000 | Dry Bed | 05/10/2003 | 0.000 | Dry Bed | 01/06/2003 |
| 2004-2005 | 2.431 | 256.350 | 18/01/2005 | 0.000 | Dry Bed | 01/06/2004 |
| 2005-2006 | 14.69 | 256.785 | 25/11/2005 | 0.000 | Dry Bed | 01/06/2005 |
| 2006-2007 | 0.000 | Dry Bed | 01/06/2006 | 0.000 | Dry Bed | 01/06/2006 |
| 2007-2008 | 0.000 | Dry Bed | 01/06/2007 | 0.000 | Dry Bed | 01/06/2007 |
| 2008-2009 | 0.000 | Dry Bed | 01/06/2008 | 0.000 | Dry Bed | 01/06/2008 |
| 2009-2010 | 0.349 | 255.885 | 21/11/2009 | 0.000 | Dry Bed | 01/06/2009 |
| 2010-2011 | 22.59 | 256.875 | 01/01/2011 | 0.000 | Dry Bed | 01/06/2010 |
| 2011-2012 | 0.000 | Dry Bed | 01/06/2011 | 0.000 | Dry Bed | 01/06/2011 |
| 2012-2013 | 0.000 | Dry Bed | 01/06/2012 | 0.000 | Dry Bed | 01/06/2012 |
| 2013-2014 | 0.000 | Dry Bed | 01/06/2013 | 0.000 | Dry Bed | 01/06/2013 |
| 2014-2015 | 0.000 | Dry Bed | 01/06/2014 | 0.000 | Dry Bed | 01/06/2014 |

Q : Observed / Computed Discharge
WL : Corresponding Water Level(m.s.l)

## Stage-Discharge Data for the period 2015 - 2016

**Station Name : Singavaram ( APG00E4)** **Division : Hydrology Division, Chennai**

**Local River : Chitravathi** **Sub-Division : PSD, Kadapa**

| Day | Jun | | Jul | | Aug | | Sep | | Oct | | Nov | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | W.L | Q | W.L | Q | W.L | Q | W.L | Q | W.L | Q | W.L | Q |
| 1 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 2 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 3 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 4 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 5 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 6 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 7 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 8 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 9 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 10 | | 0.000 | | 0.000 | | 0.000 | | 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 | | 0.000 | | 0.000 | | 0.000 |
| 16 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 17 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 18 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 19 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 20 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 21 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 22 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 23 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 24 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 25 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 26 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 27 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 28 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 29 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 30 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 31 | | | | 0.000 | | 0.000 | | | | 0.000 | | |
| Ten-Daily Mean | | | | | | | | | | | | |
| I Ten-Daily | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| II Ten-Daily | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| III Ten-Daily | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| Monthly | | | | | | | | | | | | |
| Min. | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| Max. | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| Mean | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |

**DRY BED**

**Annual Runoff in MCM = 0 Annual Runoff in mm = 0**

**Peak Observed Discharge = 0.000 cumecs on 01/06/2015**

**Lowest Observed Discharge = 0.000 cumecs on 01/06/2015**

Q: Observed/Computed Discharge in cumecs

WL:Corresponding Mean Water Level(m.s.l) in m

*Note:Missing values ignored while arriving at Annual Runoff*

**Stage-Discharge Data for the period 2015 - 2016**

**Station Name : Singavaram ( APG00E4)** **Division : Hydrology Division, Chennai**

**Local River : Chitravathi** **Sub-Division : PSD, Kadapa**

| Day | Dec | | Jan | | Feb | | Mar | | Apr | | May | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | W.L | Q | WL | Q | WL | Q | WL | Q | WL | Q | WL | Q |
| 1 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 2 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 3 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 4 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 5 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 6 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 7 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 8 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 9 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 10 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 11 | | 0.000 | | | | | | | | 000 | | 0.000 |
| 12 | | 0.000 | | | | | | | | 000 | | 0.000 |
| 13 | | 0.000 | | | | | | | | 000 | | 0.000 |
| 14 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 15 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 16 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 17 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 18 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 19 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 20 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 21 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 22 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 23 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 24 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 25 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 26 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 27 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 28 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 29 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 30 | | 0.000 | | 0.000 | | | | 0.000 | | 0.000 | | 0.000 |
| 31 | | 0.000 | | 0.000 | | | | 0.000 | | | | 0.000 |
| Ten-Daily Mean | | | | | | | | | | | | |
| I Ten-Daily | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| II Ten-Daily | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| III Ten-Daily | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| Monthly | | | | | | | | | | | | |
| Min. | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| Max. | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| Mean | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |

**DRY BED**

Q: Observed/Computed Discharge in cumecs

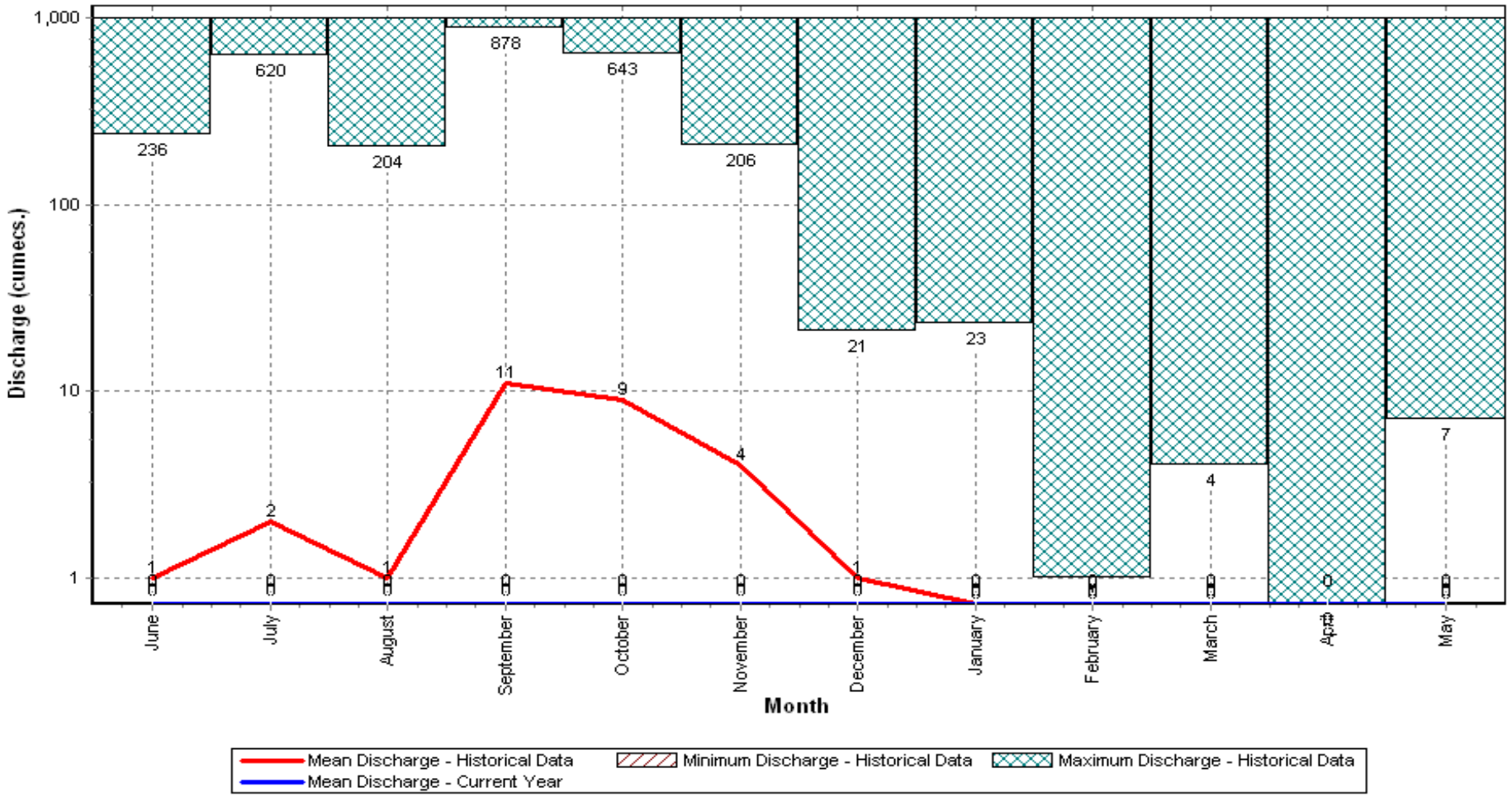
WL:Corresponding Mean Water Level(m.s.l) in m

*Note:Missing values ignored while arriving at Annual Runoff*

**HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016**

**Station Name : Singavaram ( APG00E4)** | **Data considered : 1980-2016** | **Division : Hydrology Division, Chennai**

**Local River : Chitravathi** | **Sub-Division : PSD, Kadapa**



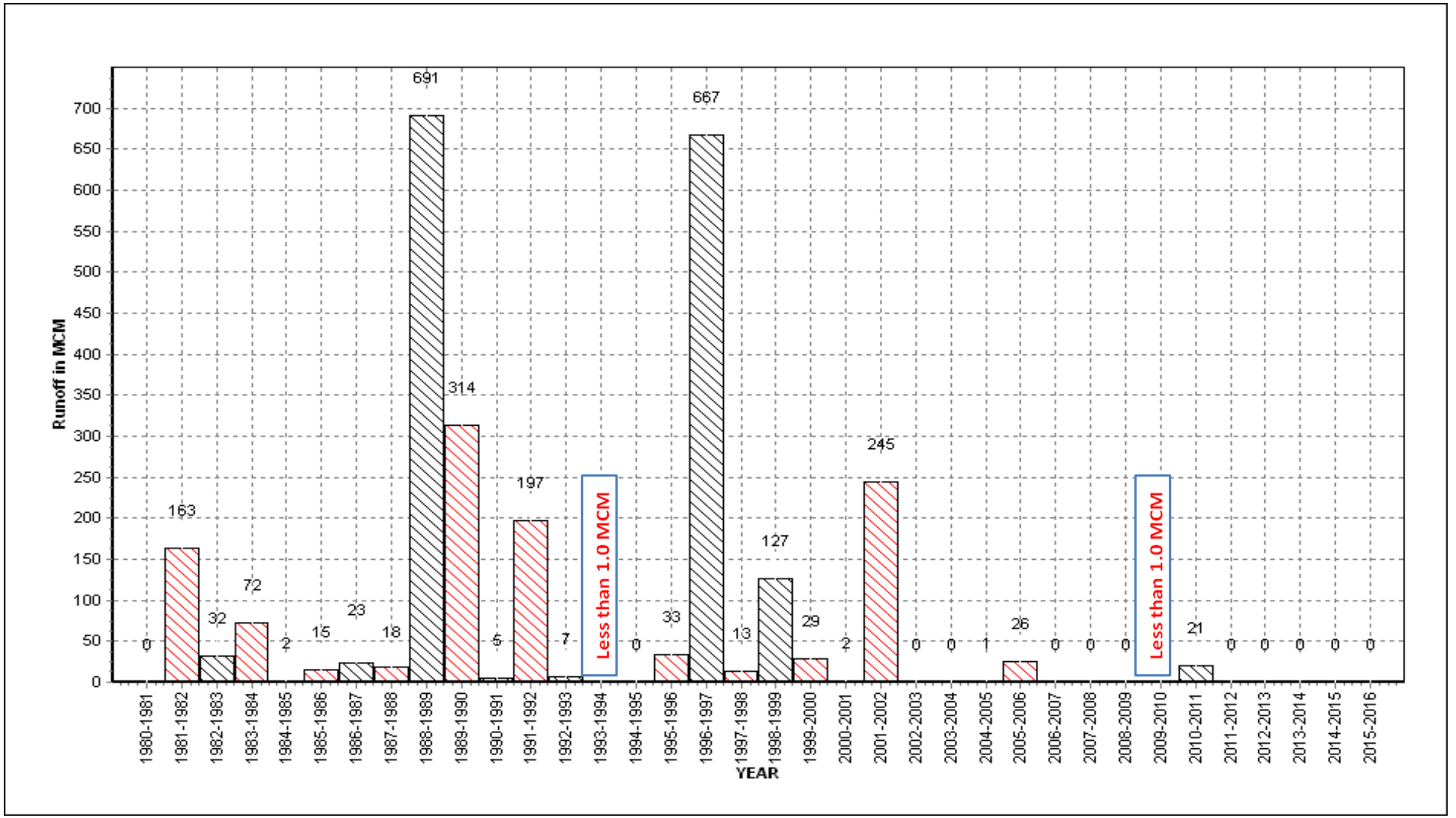
**Annual Runoff Values for the period: 1980 - 2016**

**Station Name : Singavaram ( APG00E4)**

**Local River : Chitravathi**

**Division : Hydrology Division, Chennai**

**Sub-Division : PSD, Kadapa**




*Note: Missing values have not been considered while arriving at Annual Runoff*

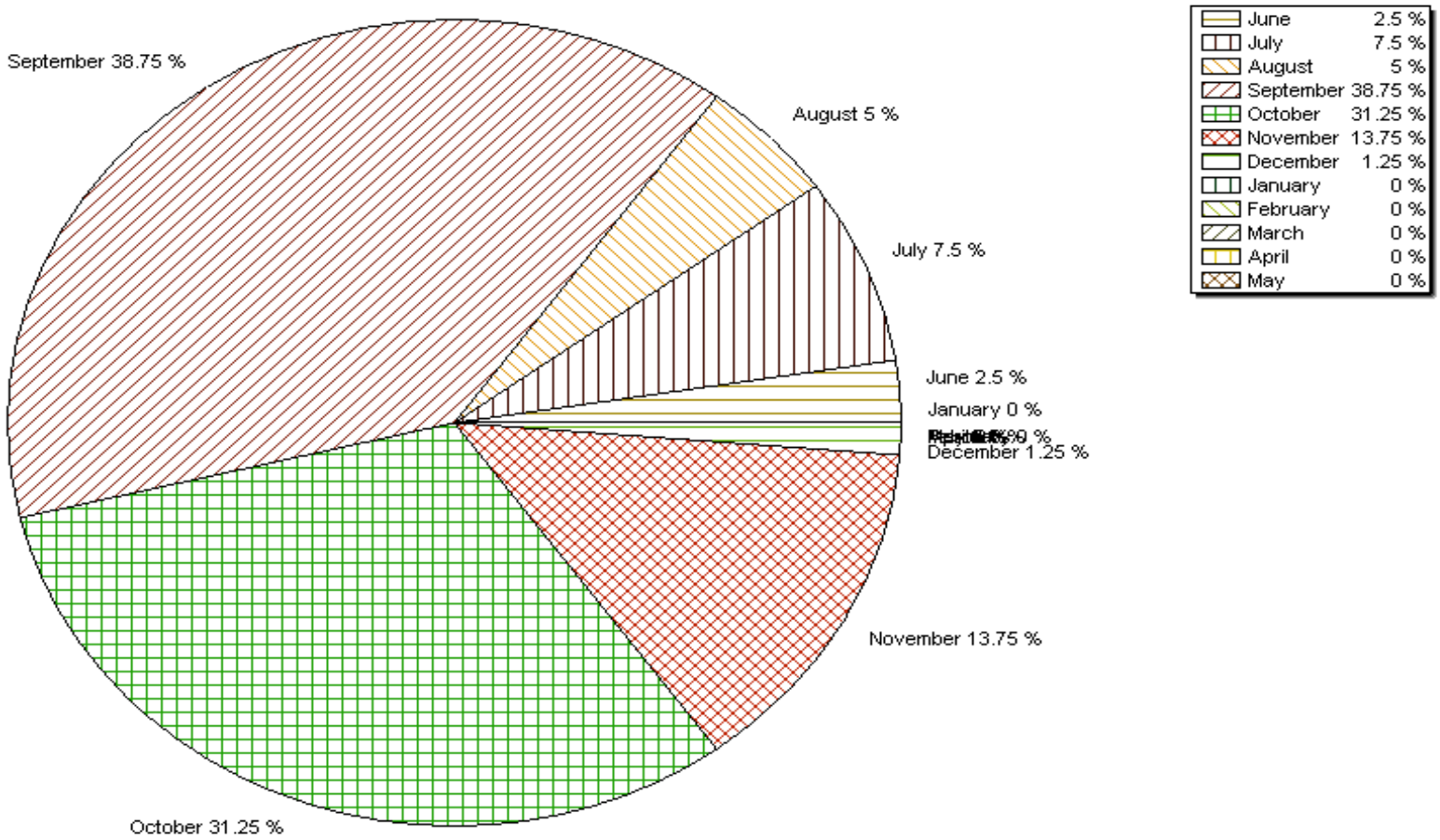
**Monthly Average Runoff based on period : 1980-2015**

**Station Name : Singavaram ( APG00E4)**

**Local River : Chitravathi**

**Division : Hydrology Division, Chennai**

**Sub-Division : PSD, Kadapa**



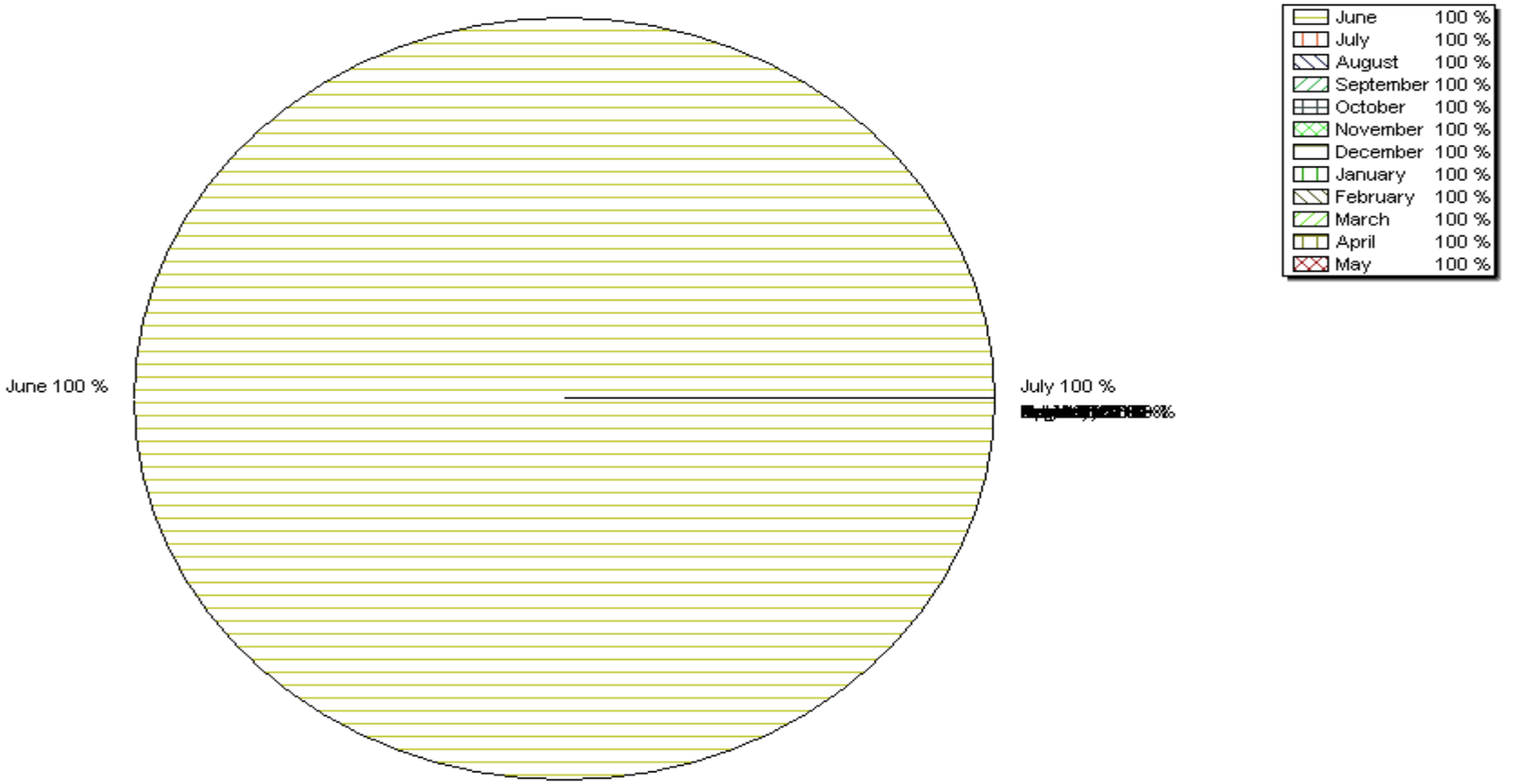
**Monthly Runoff for the Year : 2015-2016**

**Station Name : Singavaram ( APG00E4)**

**Local River : Chitravathi**

**Division : Hydrology Division, Chennai**

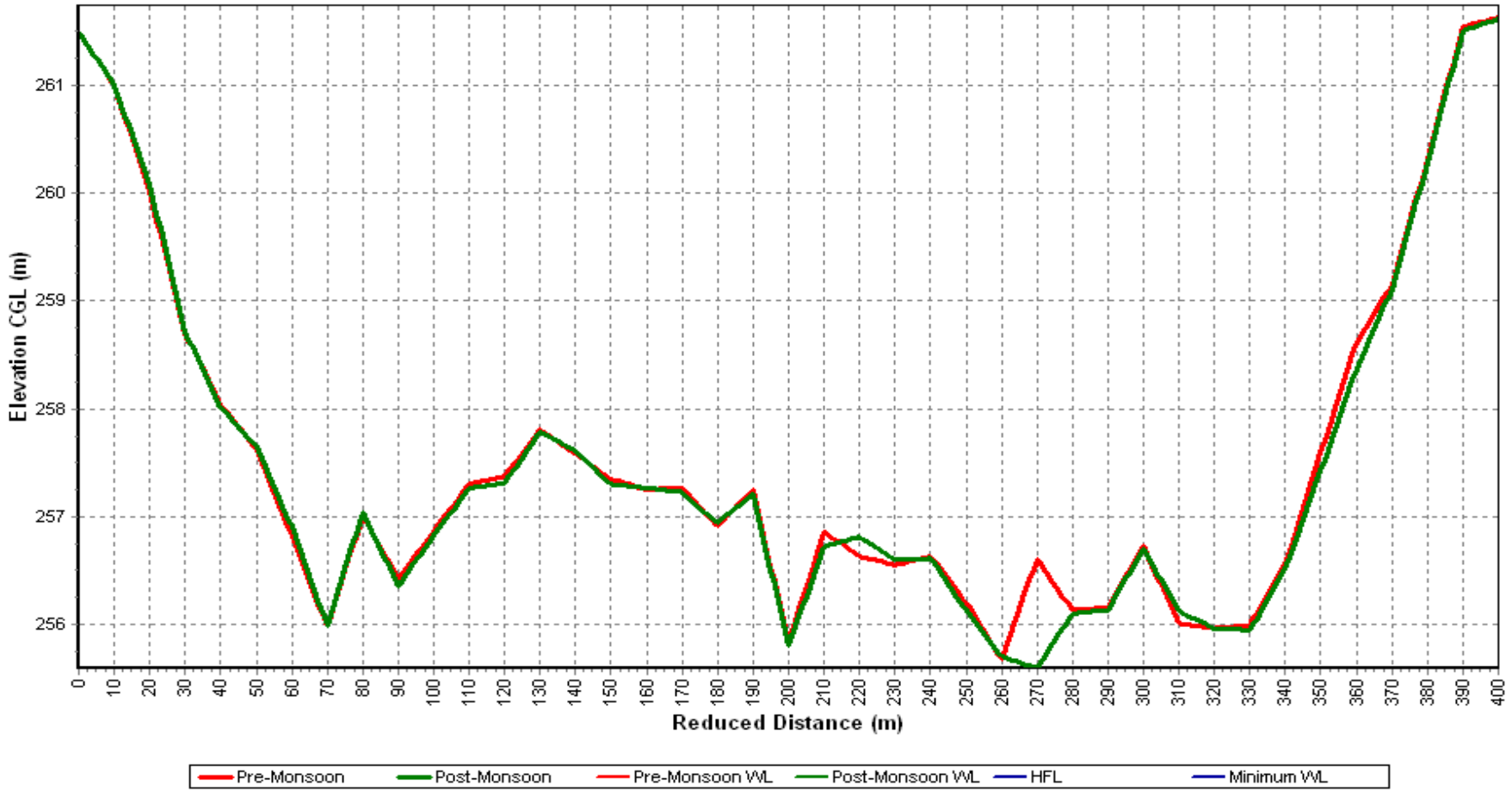
**Sub-Division : PSD, Kadapa**



**Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2015-2016**

**Station Name : Singavaram ( APG00E4)**
**Local River : Chitravathi**

**Division : Hydrology Division, Chennai**
**Sub-Division : PSD, Kadapa**



## HISTORY SHEET

**Water Year : 2015-2016**

| | | | | | |
|---|---|---|---|---|---|
| **Site** | : | **Tadipatri** | **Code** | : | **AP000L8** |
| State | : | Andhra Pradesh | District | | Anantapur |
| Basin | : | Pennar | Independent River | : | Pennar |
| Tributary | : | - | Sub Tributary | : | |
| Sub-Sub Tributary | : | | Local River | : | Pennar |
| Division | : | Hydrology Division, Chennai | Sub-Division | : | Pennar SD, Kadapa |
| Drainage Area | : | 12482 Sq. Km. | Bank | : | Left |
| Latitude | : | 14°55'19" | Longitude | : | 78°00'59" |
| **Zero of Gauge (m)** | : | 227.500(m.s.l) | 21/08/1971 | - | 22/12/1975 |
| | | 224.000 (m.s.l) | 23/12/1975 | - | 20/08/1979 |
| | | 223.650 (m.s.l) | 21/08/1979 | | |
| | | Opening Date | Closing Date | | |
| Gauge | : | 21/08/1971 | | | |
| Discharge | : | 12/12/1971 | | | |
| Sediment | : | | | | |
| Water Quality | : | 01/09/1979 | | | |

**Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)**

| | Maximum | | | Minimum | | |
|---|---|---|---|---|---|---|
| **Year** | **Q (cumecs)** | **WL (m)** | **Date** | **Q (cumecs)** | **WL (m)** | **Date** |
| 1972-1973 | 98.20 | 228.280 | 18/09/1972 | 0.000 | Dry Bed | 01/06/1972 |
| 1973-1974 | 1052 | 229.070 | 26/10/1973 | 0.000 | Dry Bed | 01/06/1973 |
| 1974-1975 | 883.5 | 229.300 | 28/09/1974 | 0.000 | Dry Bed | 05/06/1974 |
| 1975-1976 | 1867 | 230.340 | 04/11/1975 | 0.000 | Dry Bed | 01/06/1975 |
| 1976-1977 | 309.6 | 225.750 | 24/08/1976 | 0.000 | Dry Bed | 01/06/1976 |
| 1977-1978 | 186.4 | 225.480 | 29/09/1977 | 0.000 | 224.100 | 01/06/1977 |
| 1978-1979 | 160.8 | 225.500 | 12/10/1978 | 0.000 | 224.440 | 01/06/1978 |
| 1979-1980 | 429.6 | 225.735 | 26/11/1979 | 0.000 | 224.000 | 01/06/1979 |
| 1980-1981 | 44.00 | 224.955 | 30/09/1980 | 0.000 | 224.200 | 02/06/1980 |
| 1981-1982 | 1409 | 226.870 | 19/09/1981 | 0.000 | Dry Bed | 01/06/1981 |
| 1982-1983 | 451.0 | 226.450 | 19/09/1982 | 0.000 | Dry Bed | 01/06/1982 |
| 1983-1984 | 100.2 | 225.170 | 24/09/1983 | 0.000 | Dry Bed | 01/06/1983 |
| 1984-1985 | 41.20 | 224.930 | 14/07/1984 | 0.000 | Dry Bed | 01/06/1984 |
| 1985-1986 | 43.60 | 224.915 | 08/10/1985 | 0.000 | Dry Bed | 01/06/1985 |
| 1986-1987 | 278.6 | 225.450 | 07/10/1986 | 0.000 | Dry Bed | 01/06/1986 |
| 1987-1988 | 96.71 | 225.180 | 31/05/1988 | 0.000 | Dry Bed | 01/06/1987 |
| 1988-1989 | 1378 | 227.180 | 13/09/1988 | 0.000 | Dry Bed | 02/06/1988 |

Q : Observed / Computed Discharge
WL : Corresponding Water Level(m.s.l)

**Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)**

| | Maximum | | | Minimum | | |
|---|---|---|---|---|---|---|
| **Year** | **Q (cumecs)** | **WL (m)** | **Date** | **Q (cumecs)** | **WL (m)** | **Date** |
| 1989-1990 | 1004 | 227.018 | 17/07/1989 | 0.000 | Dry Bed | 01/06/1989 |
| 1990-1991 | 29.01 | 224.650 | 17/11/1990 | 0.000 | Dry Bed | 03/06/1990 |
| 1991-1992 | 56.02 | 224.891 | 01/11/1991 | 0.000 | Dry Bed | 01/06/1991 |
| 1992-1993 | 21.51 | 224.624 | 19/11/1992 | 0.000 | Dry Bed | 01/06/1992 |
| 1993-1994 | 162.9 | 225.198 | 03/10/1993 | 0.000 | Dry Bed | 01/06/1993 |
| 1994-1995 | 52.13 | 224.860 | 10/06/1994 | 0.000 | Dry Bed | 01/06/1994 |
| 1995-1996 | 52.42 | 224.880 | 11/09/1995 | 0.000 | Dry Bed | 01/06/1995 |
| 1996-1997 | 281.0 | 225.950 | 02/10/1996 | 0.000 | Dry Bed | 01/06/1996 |
| 1997-1998 | 83.00 | 224.960 | 12/09/1997 | 0.000 | Dry Bed | 01/06/1997 |
| 1998-1999 | 335.6 | 225.495 | 12/10/1998 | 0.000 | Dry Bed | 01/06/1998 |
| 1999-2000 | 335.6 | 225.830 | 20/08/1999 | 0.000 | Dry Bed | 01/06/1999 |
| 2000-2001 | 69.15 | 224.545 | 23/08/2000 | 0.000 | Dry Bed | 01/06/2000 |
| 2001-2002 | 349.3 | 225.510 | 17/10/2001 | 0.000 | Dry Bed | 01/06/2001 |
| 2002-2003 | 0.000 | Dry Bed | 01/06/2002 | 0.000 | Dry Bed | 01/06/2002 |
| 2003-2004 | 24.60 | 224.070 | 21/10/2003 | 0.000 | Dry Bed | 01/06/2003 |
| 2004-2005 | 0.000 | Dry Bed | 01/06/2004 | 0.000 | Dry Bed | 01/06/2004 |
| 2005-2006 | 159.8 | 224.845 | 06/09/2005 | 0.000 | Dry Bed | 01/06/2005 |
| 2006-2007 | 1.378 | 224.150 | 15/11/2006 | 0.000 | Dry Bed | 01/06/2006 |
| 2007-2008 | 613.0 | 225.750 | 19/09/2007 | 0.000 | Dry Bed | 01/06/2007 |
| 2008-2009 | 50.35 | 224.770 | 29/08/2008 | 0.000 | Dry Bed | 01/06/2008 |
| 2009-2010 | 24.71 | 224.233 | 15/10/2009 | 0.000 | Dry Bed | 01/06/2009 |
| 2010-2011 | 5.173 | 223.555 | 17/07/2010 | 0.000 | Dry Bed | 01/06/2010 |
| 2011-2012 | 10.68 | 223.915 | 22/08/2011 | 0.000 | Dry Bed | 01/06/2011 |
| 2012-2013 | 19.80 | 224.180 | 26/08/2012 | 0.000 | Dry Bed | 01/06/2012 |
| 2013-2014 | 6.746 | 223.590 | 18/09/2013 | 0.000 | Dry Bed | 01/06/2013 |
| 2014-2015 | 0.000 | Dry Bed | 01/06/2014 | 0.000 | Dry Bed | 01/06/2014 |

Q : Observed / Computed Discharge
WL : Corresponding Water Level(m.s.l)

## Stage-Discharge Data for the period 2015 - 2016

**Station Name : Tadipatri ( AP000L8)** **Division : Hydrology Division, Chennai**

**Local River : Pennar** **Sub-Division : PSD, Kadapa**

| Day | Jun | | Jul | | Aug | | Sep | | Oct | | Nov | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | W.L | Q | W.L | Q | W.L | Q | W.L | Q | W.L | Q | W.L | Q |
| 1 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 2 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 3 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 4 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 5 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 6 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 7 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 8 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 9 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 10 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 11 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 12 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 13 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 14 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 15 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 16 | | 0.000 | | 0.0 | | | | | | 0 | | 0.000 |
| 17 | | 0.000 | | 0.0 | | | | | | 0 | | 0.000 |
| 18 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 19 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 20 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 21 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 22 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 23 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 24 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 25 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 26 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 27 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 28 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 29 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 30 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 31 | | | | 0.000 | | 0.000 | | | | 0.000 | | |
| **Ten-Daily Mean** | | | | | | | | | | | | |
| I Ten-Daily | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| II Ten-Daily | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| III Ten-Daily | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| **Monthly** | | | | | | | | | | | | |
| Min. | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| Max. | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| Mean | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |

**DRY BED**

**Annual Runoff in MCM = 0 Annual Runoff in mm = 0**

**Peak Observed Discharge = 0.000 cumecs on 01/06/2015**

**Lowest Observed Discharge = 0.000 cumecs on 01/06/2015**

Q: Observed/Computed Discharge in cumecs

WL:Corresponding Mean Water Level(m.s.l) in m

*Note:Missing values ignored while arriving at Annual Runoff*

**Stage-Discharge Data for the period 2015 - 2016**

**Station Name : Tadipatri ( AP000L8)** **Division : Hydrology Division, Chennai**

**Local River : Pennar** **Sub-Division : PSD, Kadapa**

| Day | Dec | | Jan | | Feb | | Mar | | Apr | | May | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | W.L | Q | WL | Q | WL | Q | WL | Q | WL | Q | WL | Q |
| 1 | | 0.000 | | 0.000 | | 0.000 | | | | 0.000 | | 0.000 |
| 2 | | 0.000 | | 0.000 | | 0.000 | | | | 0.000 | | 0.000 |
| 3 | | 0.000 | | 0.000 | | 0.000 | | | | 0.000 | | 0.000 |
| 4 | | 0.000 | | 0.000 | | 0.000 | | | | 0.000 | | 0.000 |
| 5 | | 0.000 | | 0.000 | | 0.000 | | | | 0.000 | | 0.000 |
| 6 | | 0.000 | | 0.000 | | 0.000 | | | | 0.000 | | 0.000 |
| 7 | | 0.000 | | 0.000 | | 0.000 | | | | 0.000 | | 0.000 |
| 8 | | 0.000 | | 0.000 | | 0.000 | | | | 0.000 | | 0.000 |
| 9 | | 0.000 | | 0.000 | | 0.000 | | | | 0.000 | | 0.000 |
| 10 | | 0.000 | | 0.000 | | 0.000 | | | | 0.000 | | 0.000 |
| 11 | | 0.000 | | 0.000 | | 0.000 | | | | 0.000 | | 0.000 |
| 12 | | 0.000 | | 0.000 | | 0.000 | | | | 0.000 | | 0.000 |
| 13 | | 0.000 | | 0.000 | | 0.000 | | | | 0.000 | | 0.000 |
| 14 | | 0.000 | | 0.000 | | 0.000 | | | | 0.000 | | 0.000 |
| 15 | | 0.000 | | 0.000 | | 0.000 | | | | 0.000 | | 0.000 |
| 16 | | 0.000 | | DRY BED | | | | | | | | 0.000 |
| 17 | | 0.000 | | | | | | | | | | 0.000 |
| 18 | | 0.000 | | 0.000 | | 0.000 | | | | 0.000 | | 0.000 |
| 19 | | 0.000 | | 0.000 | | 0.000 | | | | 0.000 | | 0.000 |
| 20 | | 0.000 | | 0.000 | | 0.000 | | | | 0.000 | | 0.000 |
| 21 | | 0.000 | | 0.000 | | 0.000 | | | | 0.000 | | 0.000 |
| 22 | | 0.000 | | 0.000 | | 0.000 | | | | 0.000 | | 0.000 |
| 23 | | 0.000 | | 0.000 | | 0.000 | | | | 0.000 | | 0.000 |
| 24 | | 0.000 | | 0.000 | | 0.000 | | | | 0.000 | | 0.000 |
| 25 | | 0.000 | | 0.000 | | 0.000 | | | | 0.000 | | 0.000 |
| 26 | | 0.000 | | 0.000 | | 0.000 | | | | 0.000 | | 0.000 |
| 27 | | 0.000 | | 0.000 | | 0.000 | | | | 0.000 | | 0.000 |
| 28 | | 0.000 | | 0.000 | | 0.000 | | | | 0.000 | | 0.000 |
| 29 | | 0.000 | | 0.000 | | 0.000 | | | | 0.000 | | 0.000 |
| 30 | | 0.000 | | 0.000 | | | | | | 0.000 | | 0.000 |
| 31 | | 0.000 | | 0.000 | | | | | | | | 0.000 |
| Ten-Daily Mean | | | | | | | | | | | | |
| I Ten-Daily | | 0.000 | | 0.000 | | 0.000 | | | | 0.000 | | 0.000 |
| II Ten-Daily | | 0.000 | | 0.000 | | 0.000 | | | | 0.000 | | 0.000 |
| III Ten-Daily | | 0.000 | | 0.000 | | 0.000 | | | | 0.000 | | 0.000 |
| Monthly | | | | | | | | | | | | |
| Min. | | 0.000 | | 0.000 | | 0.000 | | | | 0.000 | | 0.000 |
| Max. | | 0.000 | | 0.000 | | 0.000 | | | | 0.000 | | 0.000 |
| Mean | | 0 | | 0 | | 0 | | | | 0 | | 0 |

Q: Observed/Computed Discharge in cumecs

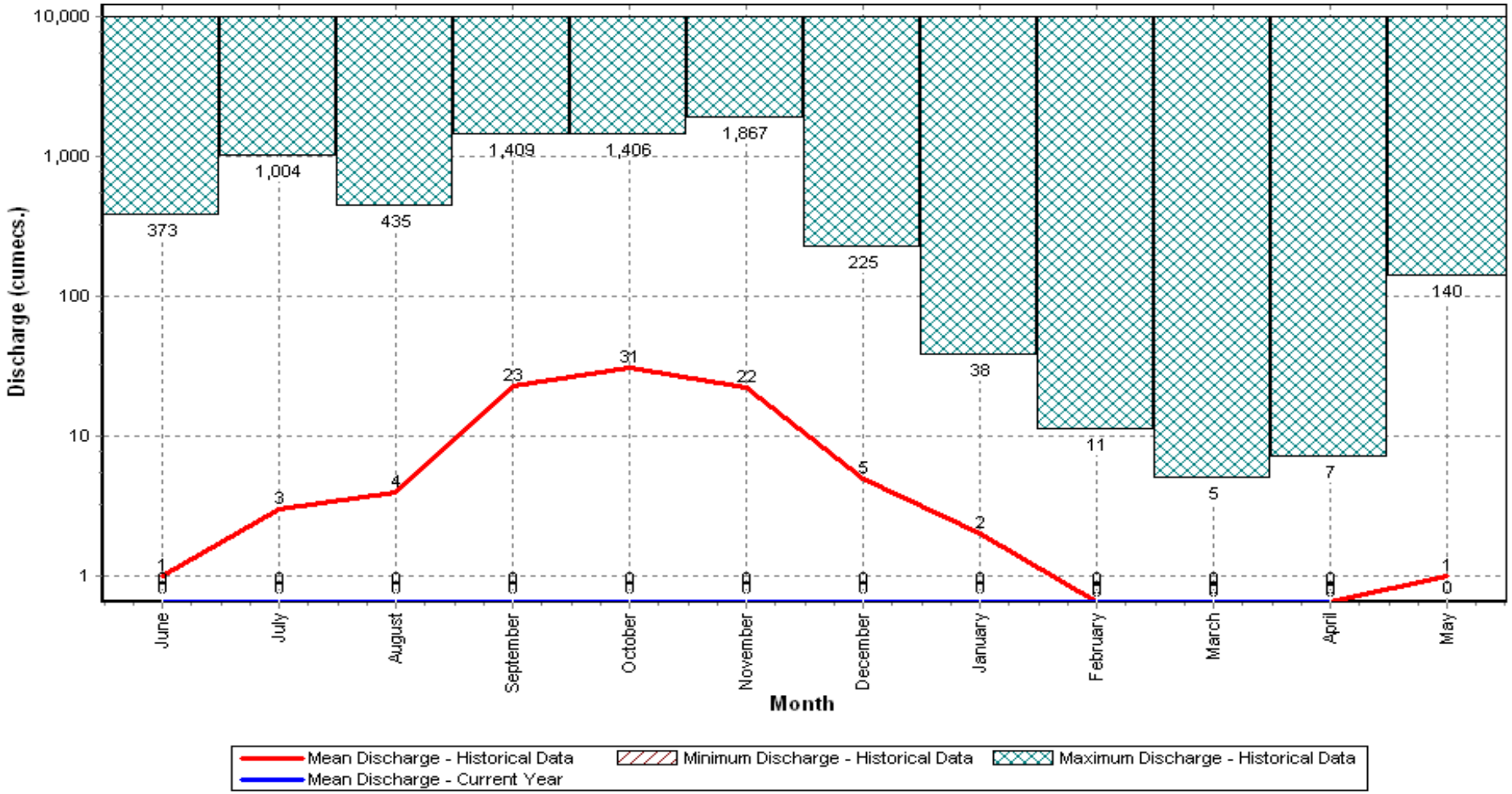
WL:Corresponding Mean Water Level(m.s.l) in m

*Note:Missing values ignored while arriving at Annual Runoff*

**HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016**

**Station Name : Tadipatri ( AP000L8)** | **Data considered : 1972-2016** | **Division : Hydrology Division, Chennai**

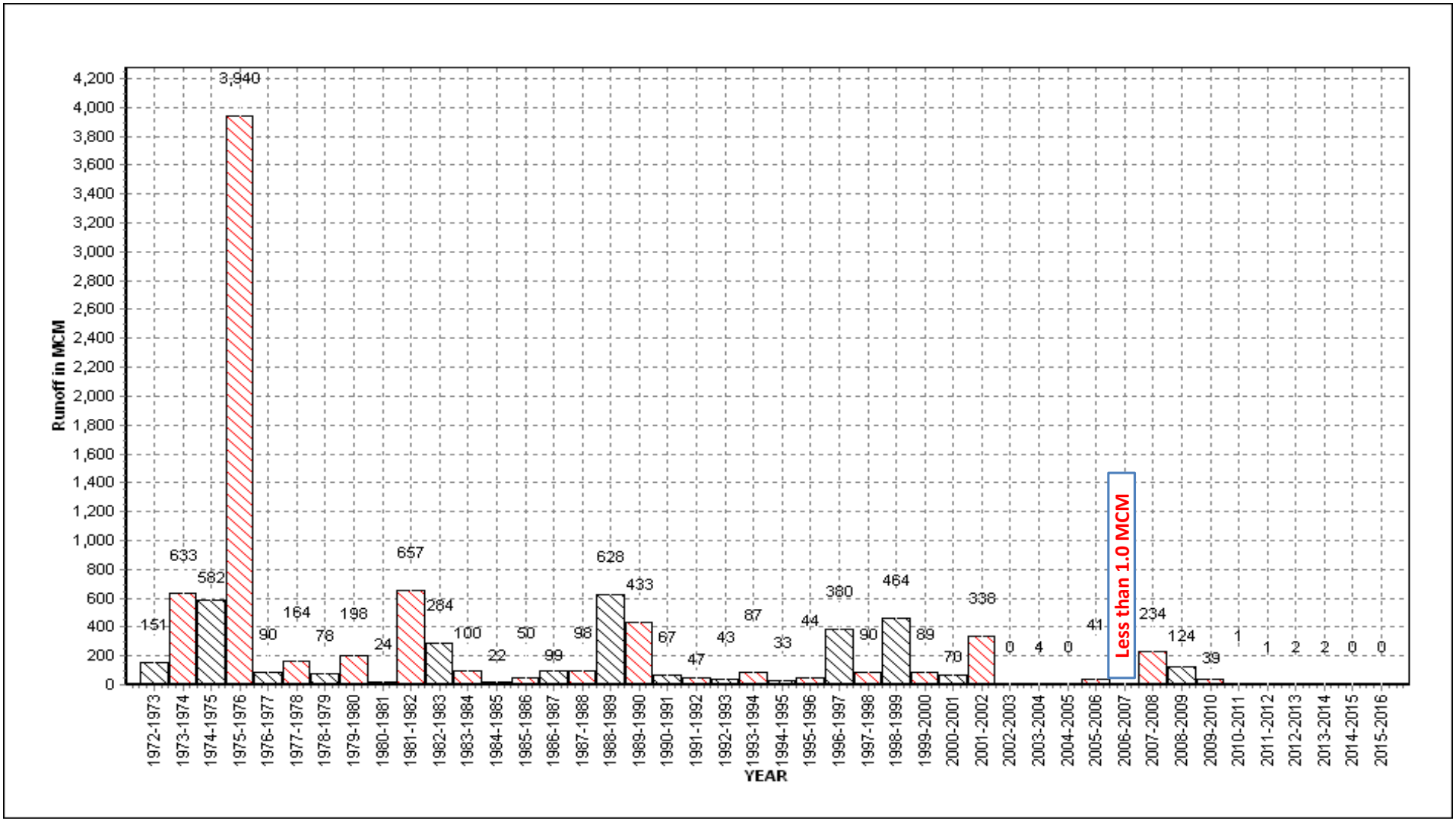
**Local River : Pennar** | **Sub-Division : PSD, Kadapa**



**Annual Runoff Values for the period: 1972 - 2016**

**Station Name : Tadipatri ( AP000L8)** **Division : Hydrology Division, Chennai**

**Local River : Pennar** **Sub-Division : PSD, Kadapa**




*Note: Missing values have not been considered while arriving at Annual Runoff*

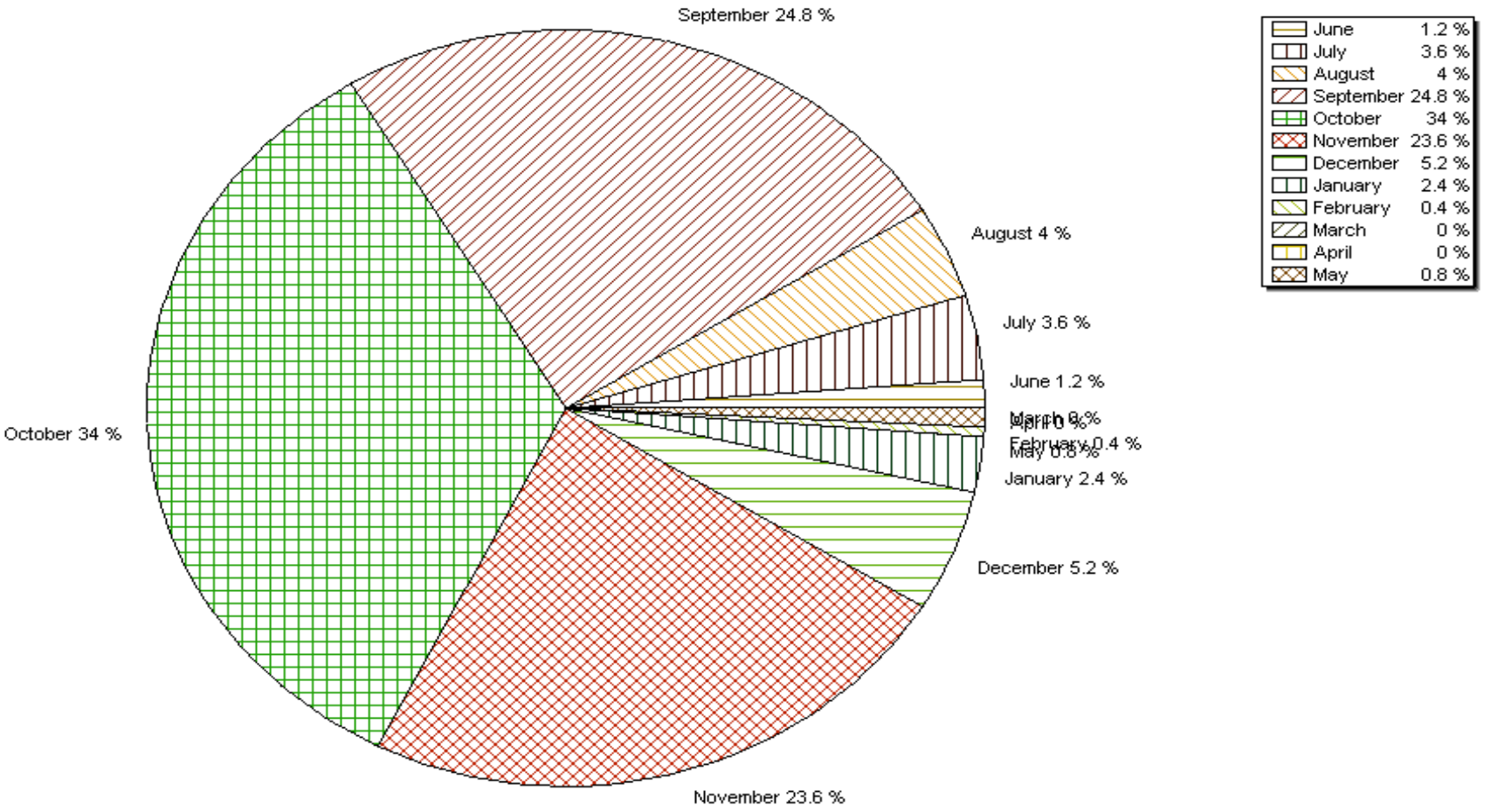
**Monthly Average Runoff based on period : 1972-2015**

**Station Name : Tadipatri ( AP000L8)**

**Local River : Pennar**

**Division : Hydrology Division, Chennai**

**Sub-Division : PSD, Kadapa**



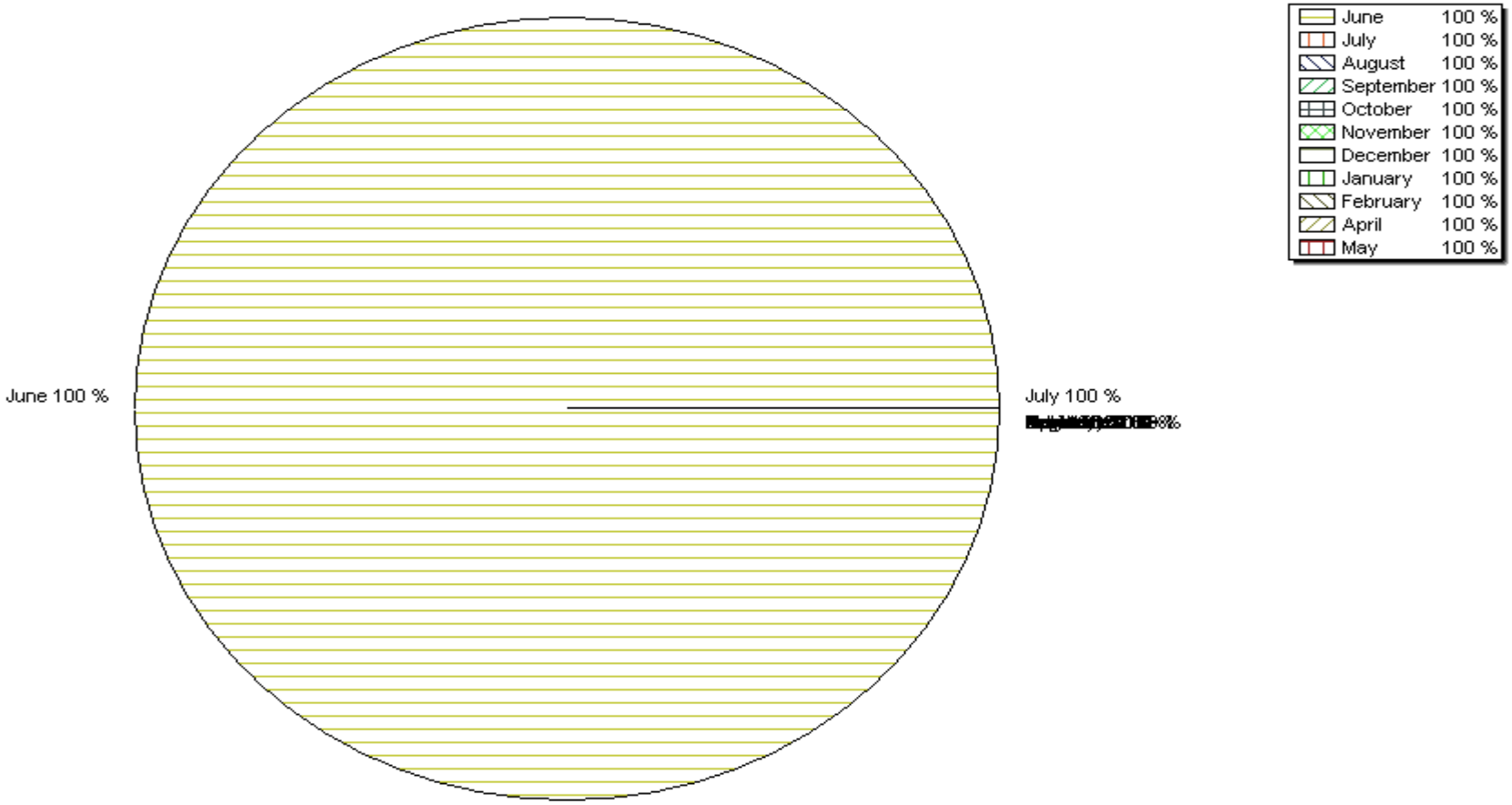
**Monthly Runoff for the Year : 2015-2016**

**Station Name : Tadipatri ( AP000L8)**

**Division : Hydrology Division, Chennai**

**Local River : Pennar**

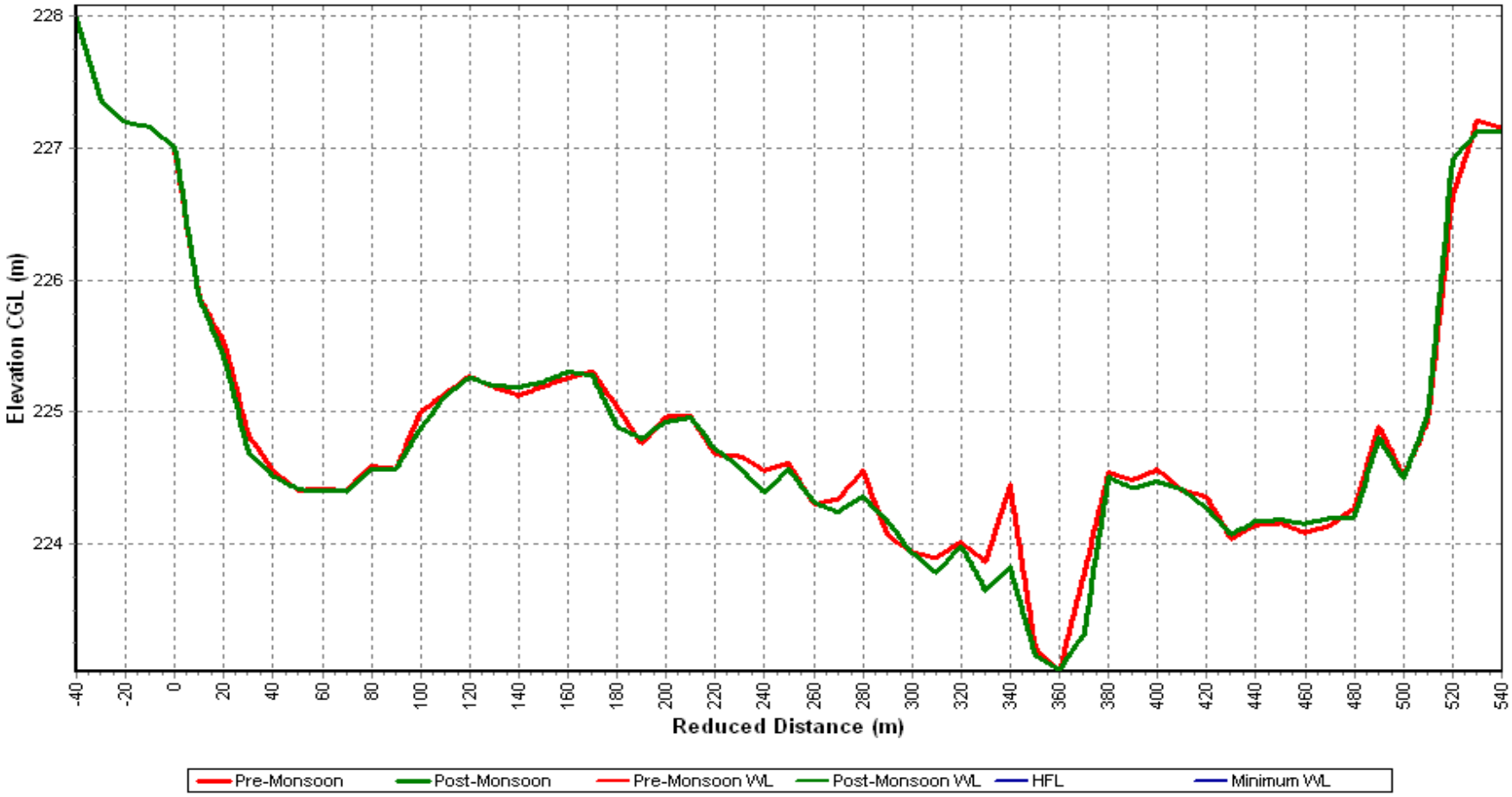
**Sub-Division : PSD, Kadapa**



**Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2015-2016**

**Station Name : Tadipatri ( AP000L8)**
**Local River : Pennar**

**Division : Hydrology Division, Chennai**
**Sub-Division : PSD, Kadapa**



## HISTORY SHEET

**Water Year : 2015-2016**

| | | | | | |
|---|---|---|---|---|---|
| **Site** | **:** | **Nagalamedike** | **Code** | **:** | **AP000V5** |
| State | : | Karnataka | District | | Tumkur |
| Basin | : | Pennar | Independent River | : | Pennar |
| Tributary | : | - | Sub Tributary | : | |
| Sub-Sub Tributary | : | | Local River | : | Pennar |
| Division | : | Hydrology Division, Chennai | Sub-Division | : | Pennar SD, Kadapa |
| Drainage Area | : | 5050 Sq. Km. | Bank | : | Left |
| Latitude | : | 14°11'20" | Longitude | : | 77°22'20" |
| **Zero of Gauge (m)** | : | 544.550 (m.s.l) | 07/02/1978 | | |
| | | Opening Date | Closing Date | | |
| Gauge | : | 07/02/1978 | | | |
| Discharge | : | 17/07/1978 | | | |
| Sediment | : | | | | |
| Water Quality | : | 01/06/1980 | | | |

**Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)**

| | Maximum | | | Minimum | | |
|---|---|---|---|---|---|---|
| **Year** | **Q (cumecs)** | **WL (m)** | **Date** | **Q (cumecs)** | **WL (m)** | **Date** |
| 1979-1980 | 32.59 | 546.578 | 14/09/1979 | 0.000 | Dry Bed | 01/09/1979 |
| 1980-1981 | 5.860 | 546.295 | 16/11/1980 | 0.000 | 546.290 | 01/06/1980 |
| 1981-1982 | 440.0 | 548.150 | 19/09/1981 | 0.000 | Dry Bed | 01/06/1981 |
| 1982-1983 | 6.300 | 546.220 | 21/09/1982 | 0.000 | Dry Bed | 01/06/1982 |
| 1983-1984 | 35.30 | 546.490 | 11/09/1983 | 0.000 | Dry Bed | 01/06/1983 |
| 1984-1985 | 6.000 | 546.230 | 21/09/1984 | 0.000 | Dry Bed | 01/06/1984 |
| 1985-1986 | 0.000 | Dry Bed | 01/06/1985 | 0.000 | Dry Bed | 01/06/1985 |
| 1986-1987 | 19.40 | 546.590 | 07/10/1986 | 0.000 | Dry Bed | 01/06/1986 |
| 1987-1988 | 60.81 | 546.705 | 10/10/1987 | 0.000 | Dry Bed | 01/06/1987 |
| 1988-1989 | 966.6 | 549.545 | 12/09/1988 | 0.000 | 545.880 | 04/06/1988 |
| 1989-1990 | 63.00 | 546.600 | 23/09/1989 | 0.000 | Dry Bed | 01/06/1989 |
| 1990-1991 | 4.293 | 545.810 | 16/11/1990 | 0.000 | 545.580 | 01/06/1990 |
| 1991-1992 | 763.6 | 548.820 | 31/10/1991 | 0.000 | Dry Bed | 01/06/1991 |
| 1992-1993 | 0.000 | Dry Bed | 01/06/1992 | 0.000 | Dry Bed | 01/06/1992 |
| 1993-1994 | 7.058 | 545.632 | 30/08/1993 | 0.000 | Dry Bed | 01/06/1993 |
| 1994-1995 | 5.102 | 545.600 | 29/10/1994 | 0.000 | Dry Bed | 01/06/1994 |
| 1995-1996 | 0.000 | Dry Bed | 01/06/1995 | 0.000 | Dry Bed | 01/06/1995 |
| 1996-1997 | 1.520 | 545.560 | 26/09/1996 | 0.000 | Dry Bed | 01/06/1996 |
| 1997-1998 | 2.100 | 545.650 | 16/12/1997 | 0.000 | Dry Bed | 01/06/1997 |

Q : Observed / Computed Discharge
WL : Corresponding Water Level(m.s.l)

**Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)**

| | Maximum | | | Minimum | | |
|---|---|---|---|---|---|---|
| **Year** | **Q (cumecs)** | **WL (m)** | **Date** | **Q (cumecs)** | **WL (m)** | **Date** |
| 1998-1999 | 37.09 | 546.170 | 30/09/1998 | 0.000 | Dry Bed | 01/06/1998 |
| 1999-2000 | 18.60 | 545.980 | 27/02/2000 | 0.000 | Dry Bed | 01/06/1999 |
| 2000-2001 | 6.048 | 545.740 | 23/10/2000 | 0.000 | Dry Bed | 01/06/2000 |
| 2001-2002 | 87.70 | 546.480 | 25/09/2001 | 0.000 | Dry Bed | 01/06/2001 |
| 2002-2003 | 154.1 | 546.755 | 17/09/2002 | 0.000 | Dry Bed | 01/06/2002 |
| 2003-2004 | 0.000 | Dry Bed | 01/06/2003 | 0.000 | Dry Bed | 01/06/2003 |
| 2004-2005 | 0.000 | Dry Bed | 01/06/2004 | 0.000 | Dry Bed | 01/06/2004 |
| 2005-2006 | 0.000 | Dry Bed | 01/06/2005 | 0.000 | Dry Bed | 01/06/2005 |
| 2006-2007 | 0.000 | Dry Bed | 01/06/2006 | 0.000 | Dry Bed | 01/06/2006 |
| 2007-2008 | 0.000 | Dry Bed | 01/06/2007 | 0.000 | Dry Bed | 01/06/2007 |
| 2008-2009 | 48.58 | 546.240 | 09/09/2008 | 0.000 | Dry Bed | 01/06/2008 |
| 2009-2010 | 0.000 | Dry Bed | 01/06/2009 | 0.000 | Dry Bed | 01/06/2009 |
| 2010-2011 | 0.000 | Dry Bed | 01/06/2010 | 0.000 | Dry Bed | 01/06/2010 |
| 2011-2012 | 0.000 | Dry Bed | 01/06/2011 | 0.000 | Dry Bed | 01/06/2011 |
| 2012-2013 | 0.000 | Dry Bed | 01/06/2012 | 0.000 | Dry Bed | 01/06/2012 |
| 2013-2014 | 18.33 | 546.040 | 13/09/2013 | 0.000 | Dry Bed | 01/06/2013 |
| 2014-2015 | 0.000 | Dry Bed | 01/06/2014 | 0.000 | Dry Bed | 01/06/2014 |

Q : Observed / Computed Discharge
WL : Corresponding Water Level(m.s.l)

**Stage-Discharge Data for the period 2015 - 2016**

**Station Name : Nagalamedike ( AP000V5)** **Division : Hydrology Division, Chennai**

**Local River : Pennar** **Sub-Division : PSD, Kadapa**

| Day | Jun | | Jul | | Aug | | Sep | | Oct | | Nov | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | W.L | Q | W.L | Q | W.L | Q | W.L | Q | W.L | Q | W.L | Q |
| 1 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 2 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 3 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 4 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 5 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 6 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 7 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 8 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 9 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 10 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 11 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 12 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 13 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 14 | | 0.000 | | 0 | | | | | | 000 | | 0.000 |
| 15 | | 0.000 | | 0 | | **DRY BED** | | | | 000 | | 0.000 |
| 16 | | 0.000 | | 0 | | | | | | 000 | | 0.000 |
| 17 | | 0.000 | | 0 | | | | | | 000 | | 0.000 |
| 18 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 19 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 20 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 21 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 22 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 23 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 24 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 25 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 26 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 27 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 28 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 29 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 30 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 31 | | | | 0.000 | | 0.000 | | | | 0.000 | | |
| Ten-Daily Mean | | | | | | | | | | | | |
| I Ten-Daily | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| II Ten-Daily | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| III Ten-Daily | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| Monthly | | | | | | | | | | | | |
| Min. | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| Max. | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| Mean | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |

**Annual Runoff in MCM = 0 Annual Runoff in mm = 0**

**Peak Observed Discharge = 0.000 cumecs on 01/06/2015**

**Lowest Observed Discharge = 0.000 cumecs on 01/06/2015**

Q: Observed/Computed Discharge in cumecs

WL:Corresponding Mean Water Level(m.s.l) in m

*Note:Missing values ignored while arriving at Annual Runoff*

**Stage-Discharge Data for the period 2015 - 2016**

**Station Name : Nagalamedike ( AP000V5)** **Division : Hydrology Division, Chennai**

**Local River : Pennar** **Sub-Division : PSD, Kadapa**

| Day | Dec | | Jan | | Feb | | Mar | | Apr | | May | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | W.L | Q | WL | Q | WL | Q | WL | Q | WL | Q | WL | Q |
| 1 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 2 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 3 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 4 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 5 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 6 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 7 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 8 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 9 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 10 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 11 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 12 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 13 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 14 | | 0.000 | | 0 | | | | | | 0 | | 0.000 |
| 15 | | 0.000 | | 0 | | | | | | 0 | | 0.000 |
| 16 | | 0.000 | | 0 | | | | | | 0 | | 0.000 |
| 17 | | 0.000 | | 0 | | | | | | 0 | | 0.000 |
| 18 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 19 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 20 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 21 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 22 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 23 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 24 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 25 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 26 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 27 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 28 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 29 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 30 | | 0.000 | | 0.000 | | | | 0.000 | | 0.000 | | 0.000 |
| 31 | | 0.000 | | 0.000 | | | | 0.000 | | | | 0.000 |
| Ten-Daily Mean | | | | | | | | | | | | |
| I Ten-Daily | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| II Ten-Daily | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| III Ten-Daily | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| Monthly | | | | | | | | | | | | |
| Min. | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| Max. | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| Mean | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |

**DRY BED**

Q: Observed/Computed Discharge in cumecs

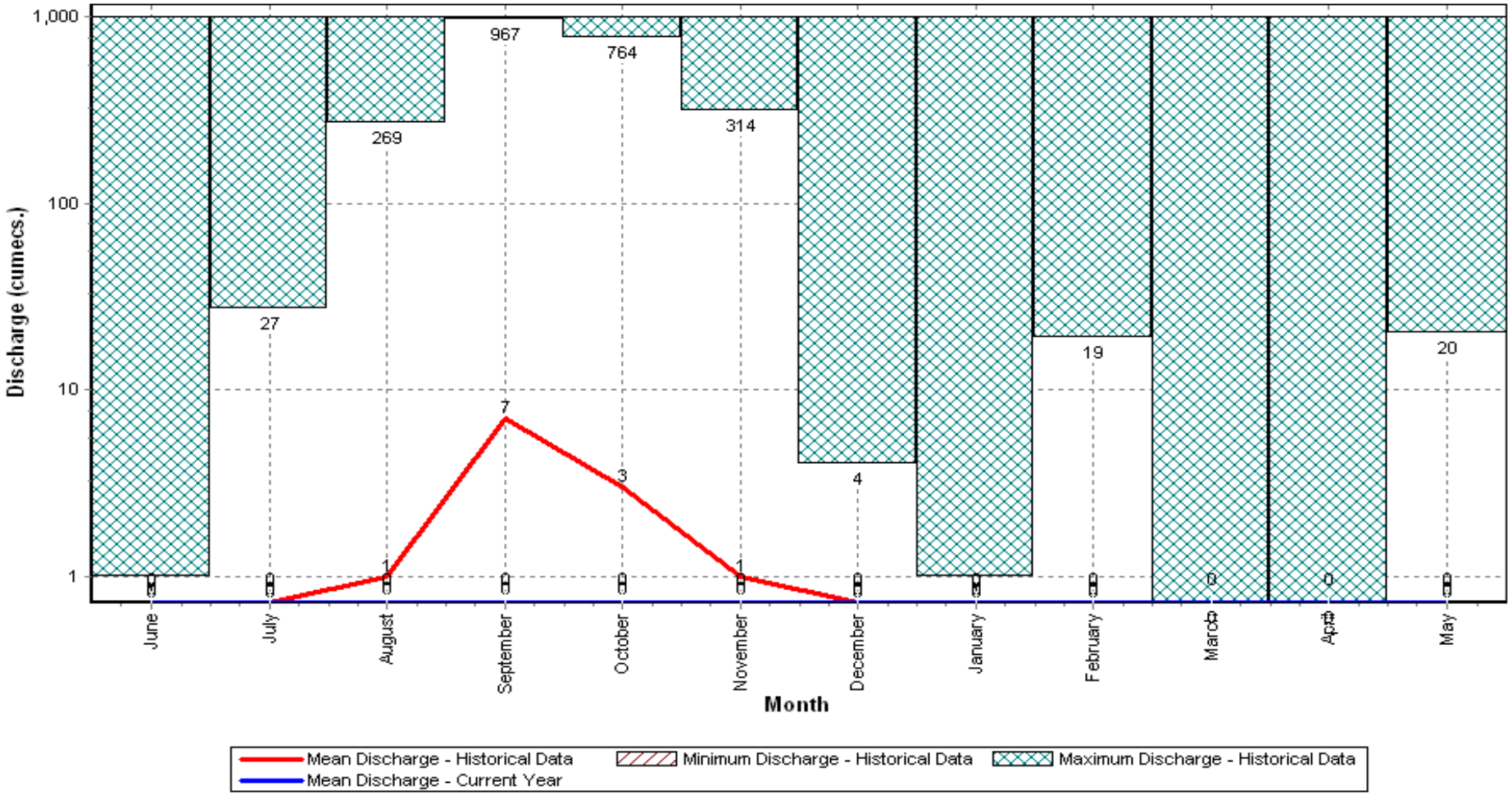
WL:Corresponding Mean Water Level(m.s.l) in m

*Note:Missing values ignored while arriving at Annual Runoff*

**HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016**

**Station Name : Nagalamedike ( AP000V5)** | **Data considered : 1979-2016** | **Division : Hydrology Division, Chennai**

**Local River : Pennar** | **Sub-Division : PSD, Kadapa**



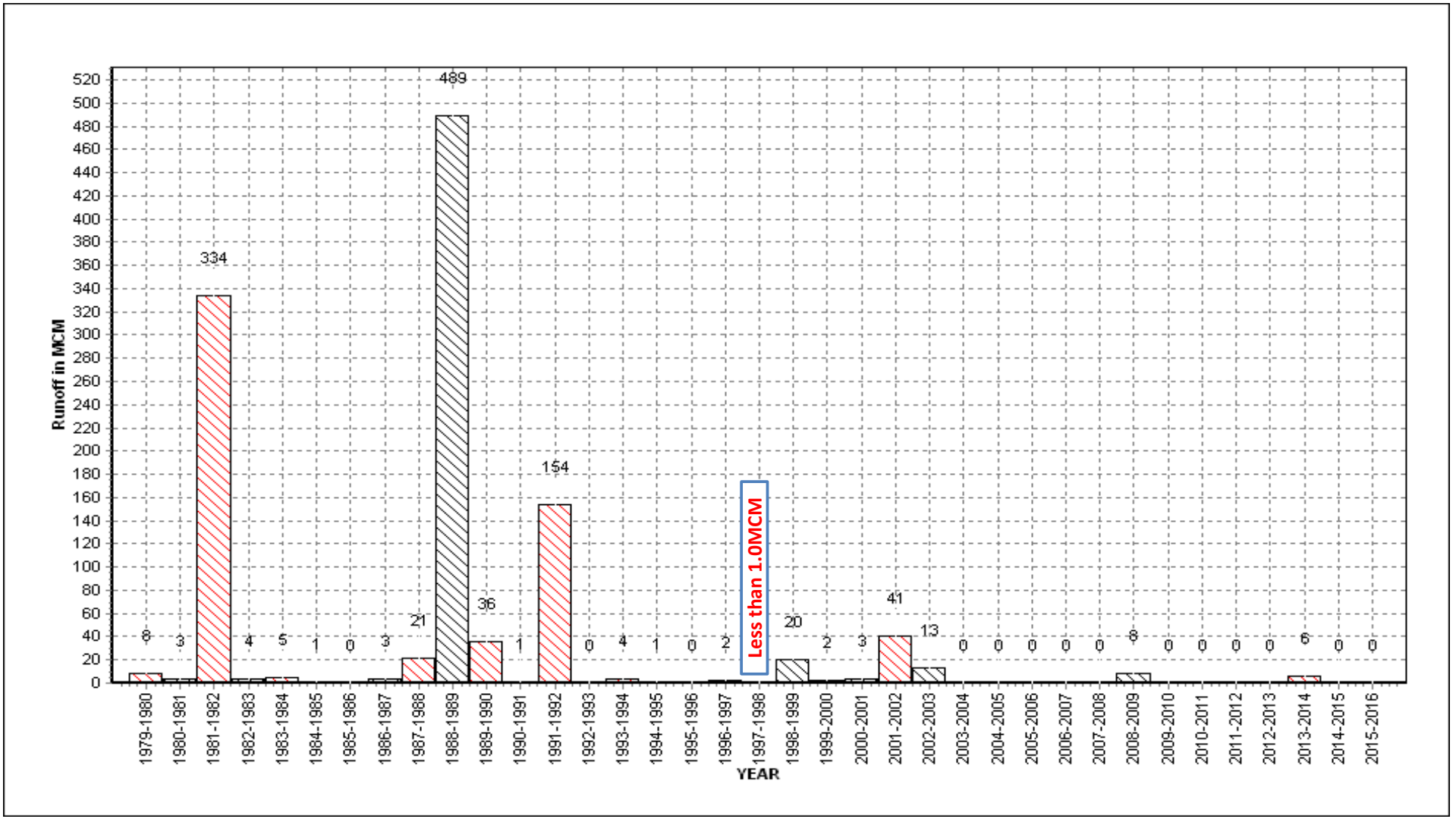
**Annual Runoff Values for the period: 1979 - 2016**

**Station Name : Nagalamedike ( AP000V5)**

**Local River : Pennar**

**Division : Hydrology Division, Chennai**

**Sub-Division : PSD, Kadapa**




*Note: Missing values have not been considered while arriving at Annual Runoff*

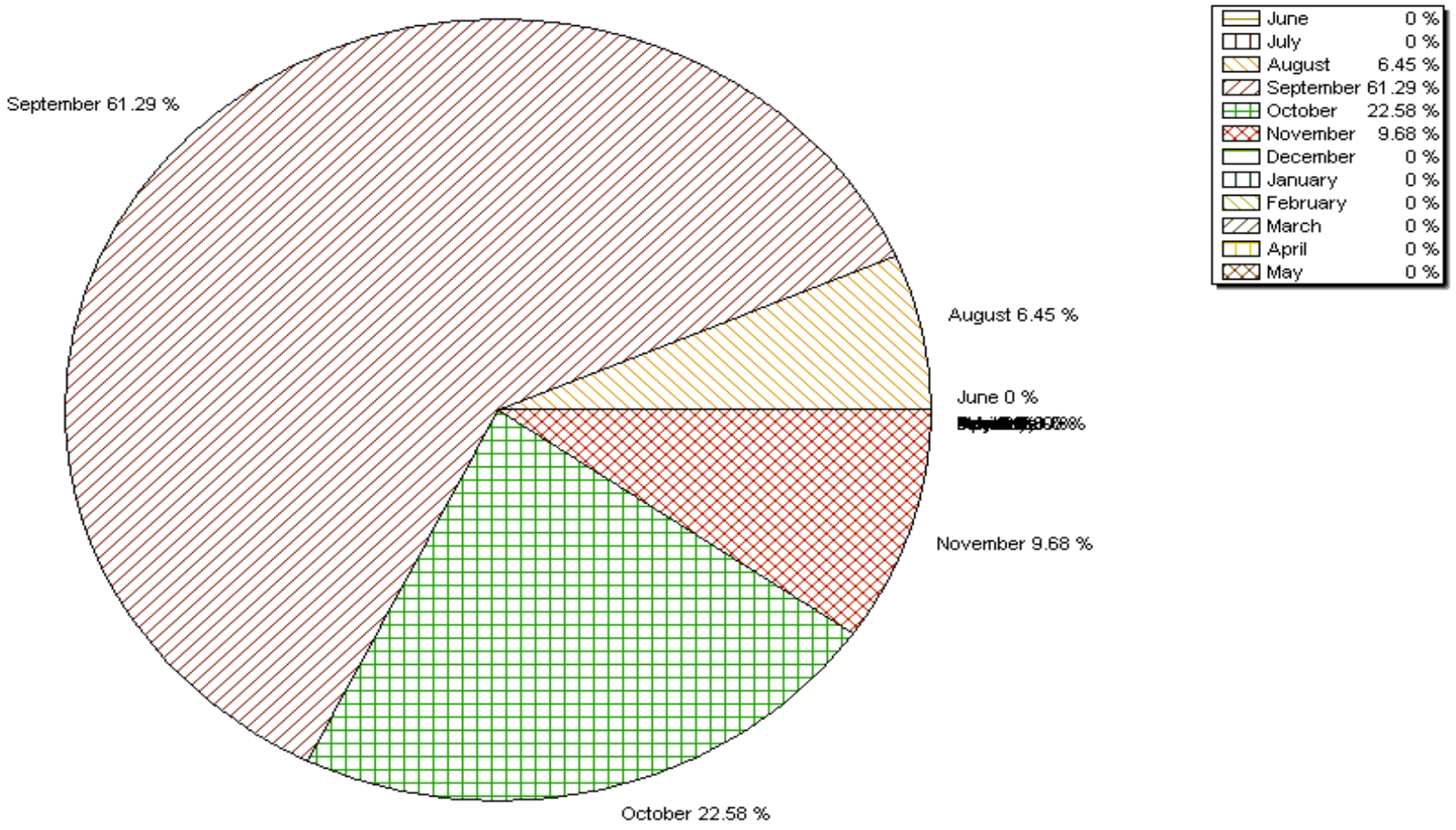
**Monthly Average Runoff based on period : 1979-2015**

**Station Name : Nagalamedike ( AP000V5)**

**Local River : Pennar**

**Division : Hydrology Division, Chennai**

**Sub-Division : PSD, Kadapa**



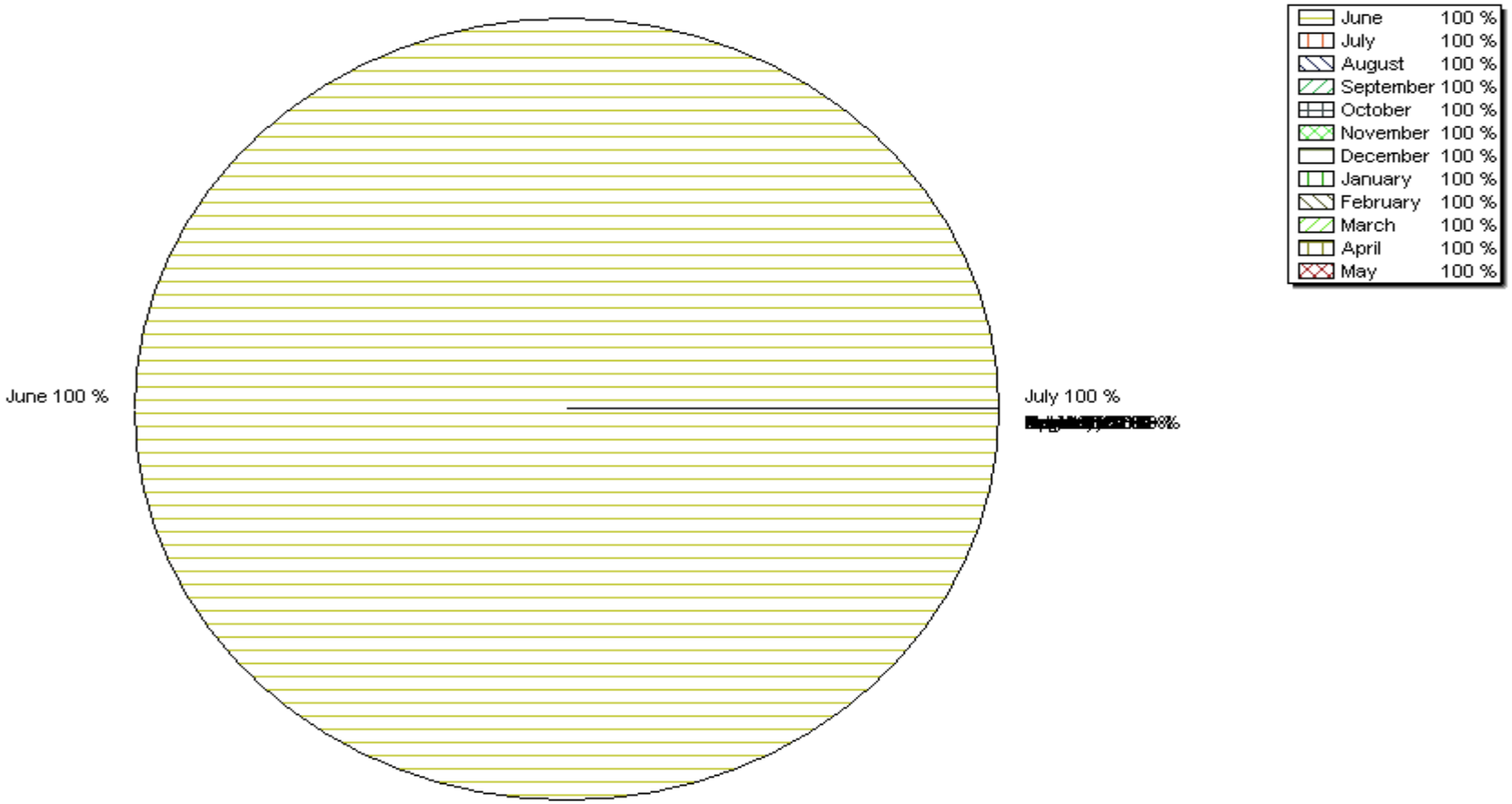
**Monthly Runoff for the Year : 2015-2016**

**Station Name : Nagalamedike ( AP000V5)**

**Division : Hydrology Division, Chennai**

**Local River : Pennar**

**Sub-Division : PSD, Kadapa**



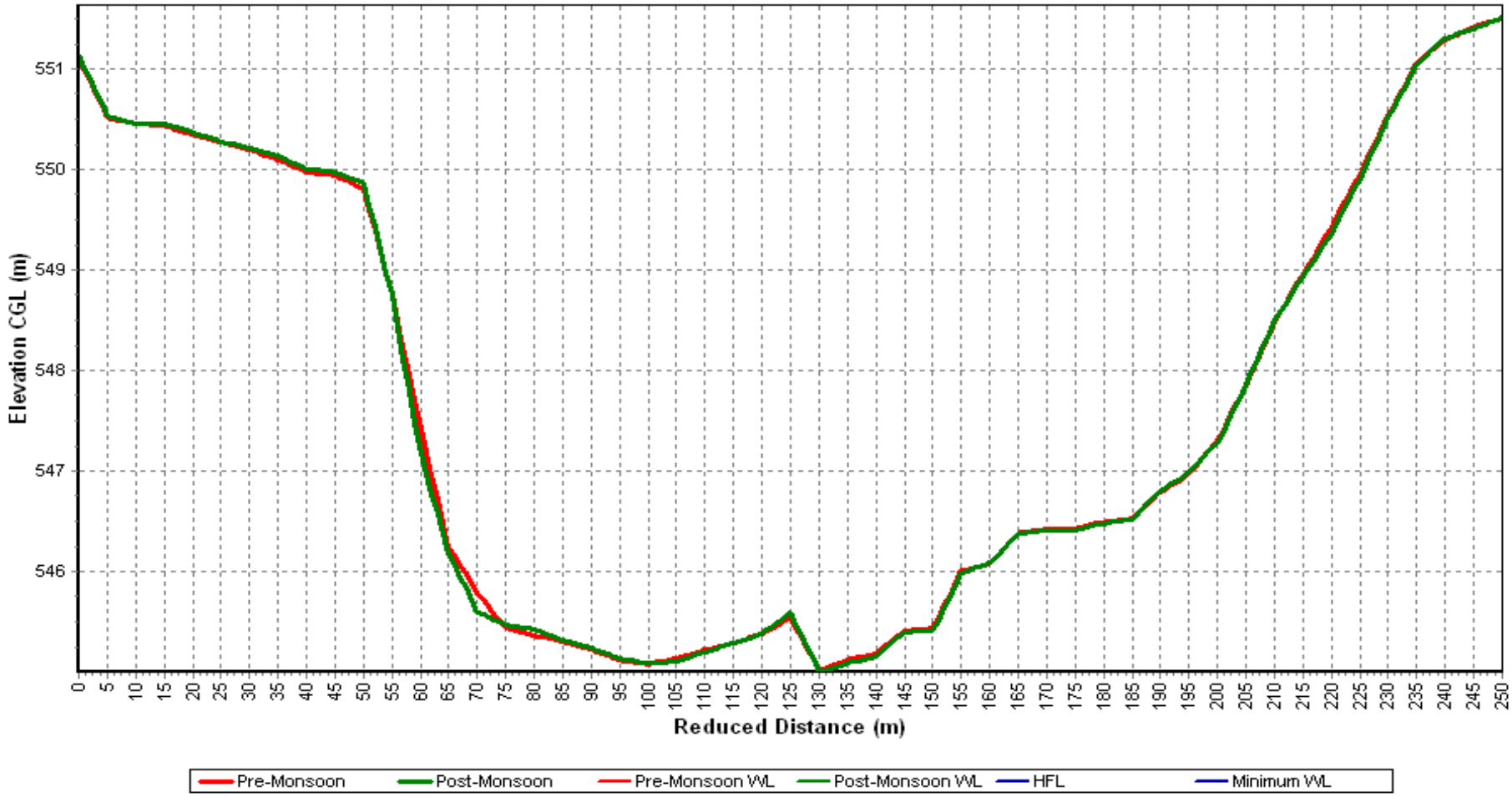
**Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2015-2016**

**Station Name : Nagalamedike ( AP000V5)**

**Local River : Pennar**

**Division : Hydrology Division, Chennai**

**Sub-Division : PSD, Kadapa**



## HISTORY SHEET

**Water Year : 2015-2016**

| | | | | | |
|---|---|---|---|---|---|
| **Site** | **: Naidupeta** | | **Code** | **: AC000G4** | |
| State | : Andhra Pradesh | | District | Nellore | |
| Basin | : EFR B Pennar-Cauvery | | Independent River | : Swarnamukhi | |
| Tributary | : - | | Sub Tributary | : | |
| Sub-Sub Tributary | : | | Local River | : Swarnamukhi | |
| Division | : Hydrology Division, Chennai | | Sub-Division | : Palar Ponnaiyar SD, Chennai | |
| Drainage Area | : 2650 Sq. Km. | | Bank | : Left | |
| Latitude | : 13°56'54" | | Longitude | : 79°53'46" | |
| **Zero of Gauge (m)** | : 42.000(m.s.l)Arb<br>20.130 (m.s.l) | | 14/10/1977<br>01/06/1980 | - 31/05/1980 | |
| | Opening Date | | Closing Date | | |
| Gauge | : 14/10/1977 | | | | |
| Discharge | : 01/12/1978 | | | | |
| Sediment | : 22/10/2013 | | | | |
| Water Quality | : 01/12/1980 | | | | |

**Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)**

| | Maximum | | | Minimum | | |
|---|---|---|---|---|---|---|
| **Year** | **Q (cumecs)** | **WL (m)** | **Date** | **Q (cumecs)** | **WL (m)** | **Date** |
| 1979-1980 | 293.3 | 44.340 | 26/11/1979 | 0.000 | Dry Bed | 01/06/1979 |
| 1980-1981 | 1439 | 24.255 | 16/11/1980 | 0.000 | Dry Bed | 01/06/1980 |
| 1981-1982 | 333.0 | 22.707 | 03/12/1981 | 0.000 | Dry Bed | 01/06/1981 |
| 1982-1983 | 148.7 | 22.205 | 19/10/1982 | 0.000 | Dry Bed | 01/06/1982 |
| 1983-1984 | 1772 | 24.530 | 14/02/1984 | 0.000 | Dry Bed | 01/06/1983 |
| 1984-1985 | 2525 | 25.950 | 14/11/1984 | 0.000 | Dry Bed | 01/06/1984 |
| 1985-1986 | 657.6 | 23.290 | 14/11/1985 | 0.000 | Dry Bed | 01/06/1985 |
| 1986-1987 | 184.6 | 22.155 | 07/11/1986 | 0.000 | Dry Bed | 01/06/1986 |
| 1987-1988 | 221.2 | 22.320 | 11/12/1987 | 0.000 | Dry Bed | 01/06/1987 |
| 1988-1989 | 213.4 | 22.310 | 08/11/1988 | 0.000 | Dry Bed | 01/06/1988 |
| 1989-1990 | 728.4 | 23.330 | 02/12/1989 | 0.000 | Dry Bed | 01/06/1989 |
| 1990-1991 | 935.8 | 23.410 | 15/11/1990 | 0.000 | 20.540 | 01/06/1990 |
| 1991-1992 | 1876 | 24.884 | 15/11/1991 | 0.000 | Dry Bed | 01/06/1991 |
| 1992-1993 | 221.4 | 22.262 | 15/11/1992 | 0.000 | Dry Bed | 01/06/1992 |
| 1993-1994 | 1354 | 23.966 | 10/11/1993 | 0.000 | Dry Bed | 01/06/1993 |
| 1994-1995 | 180.5 | 22.030 | 08/05/1995 | 0.000 | Dry Bed | 01/06/1994 |
| 1995-1996 | 61.00 | 21.730 | 25/10/1995 | 0.000 | Dry Bed | 01/06/1995 |
| 1996-1997 | 1390 | 24.530 | 13/12/1996 | 0.000 | Dry Bed | 01/06/1996 |

Q : Observed / Computed Discharge
WL : Corresponding Water Level(m.s.l)

**Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)**

| | Maximum | | | Minimum | | |
|---|---|---|---|---|---|---|
| **Year** | **Q (cumecs)** | **WL (m)** | **Date** | **Q (cumecs)** | **WL (m)** | **Date** |
| 1997-1998 | 528.0 | 23.180 | 07/12/1997 | 0.000 | Dry Bed | 01/06/1997 |
| 1998-1999 | 388.0 | 22.580 | 07/11/1998 | 0.000 | Dry Bed | 01/06/1998 |
| 1999-2000 | 91.63 | 21.865 | 23/11/1999 | 0.000 | Dry Bed | 01/06/1999 |
| 2000-2001 | 43.50 | 21.790 | 04/12/2000 | 0.000 | Dry Bed | 01/06/2000 |
| 2001-2002 | 253.6 | 22.800 | 17/10/2001 | 0.000 | Dry Bed | 01/06/2001 |
| 2002-2003 | 54.97 | 21.630 | 11/11/2002 | 0.000 | Dry Bed | 01/06/2002 |
| 2003-2004 | 0.000 | Dry Bed | 01/06/2003 | 0.000 | Dry Bed | 01/06/2003 |
| 2004-2005 | 18.29 | 21.360 | 08/11/2004 | 0.000 | Dry Bed | 01/06/2004 |
| 2005-2006 | 777.4 | 24.680 | 03/12/2005 | 0.000 | Dry Bed | 01/06/2005 |
| 2006-2007 | 55.32 | 22.300 | 21/11/2006 | 0.000 | Dry Bed | 01/06/2006 |
| 2007-2008 | 1480 | 23.980 | 20/12/2007 | 0.000 | Dry Bed | 01/06/2007 |
| 2008-2009 | 612.6 | 23.310 | 28/11/2008 | 0.000 | Dry Bed | 01/06/2008 |
| 2009-2010 | 26.00 | 21.230 | 18/12/2009 | 0.000 | Dry Bed | 01/06/2009 |
| 2010-2011 | 299.7 | 22.435 | 18/11/2010 | 0.000 | Dry Bed | 01/06/2010 |
| 2011-2012 | 324.3 | 22.210 | 28/11/2011 | 0.000 | Dry Bed | 01/06/2011 |
| 2012-2013 | 362.7 | 22.740 | 06/12/2012 | 0.000 | Dry Bed | 01/06/2012 |
| 2013-2014 | 29.51 | 21.400 | 05/11/2013 | 0.000 | Dry Bed | 01/06/2013 |
| 2014-2015 | 13.54 | 21.190 | 17/12/2014 | 0.000 | Dry Bed | 01/06/2014 |

Q : Observed / Computed Discharge
WL : Corresponding Water Level(m.s.l)

## Stage-Discharge Data for the period 2015 - 2016

**Station Name : Naidupeta ( AC000G4)** **Division : Hydrology Division, Chennai**

**Local River : Swarnamukhi** **Sub-Division : Palar Ponnaiyar SD, Chennai**

| Day | Jun | | Jul | | Aug | | Sep | | Oct | | Nov | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | W.L | Q | W.L | Q | W.L | Q | W.L | Q | W.L | Q | W.L | Q | |
| 1 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | |
| 2 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | |
| 3 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | |
| 4 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | |
| 5 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | |
| 6 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | |
| 7 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | |
| 8 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | |
| 9 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | |
| 10 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | |
| 11 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 22.320 | 224.7 | # |
| 12 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 21.990 | 130.9 | |
| 13 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 22.035 | 136.8 | |
| 14 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 21.860 | 86.53 | |
| 15 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 21.660 | 73.25 | * |
| 16 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 23.630 | 950.4 | |
| 17 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 24.095 | 1100 | |
| 18 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 23.170 | 483.9 | |
| 19 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 23.250 | 578.3 | |
| 20 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 23.645 | 738.5 | |
| 21 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 22.665 | 336.6 | |
| 22 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 22.590 | 310.3 | * |
| 23 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 24.160 | 992.1 | |
| 24 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 22.870 | 420.4 | |
| 25 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 22.350 | 233.6 | * |
| 26 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 21.960 | 135.6 | |
| 27 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 21.700 | 89.80 | |
| 28 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 21.700 | 88.23 | |
| 29 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 21.510 | 50.30 | * |
| 30 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 21.815 | 112.3 | |
| 31 | | | | 0.000 | | 0.000 | | | | 0.000 | | | |
| Ten-Daily Mean | | | | | | | | | | | | | |
| I Ten-Daily | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | |
| II Ten-Daily | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 22.766 | 450.4 | |
| III Ten-Daily | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 22.332 | 276.9 | |
| Monthly | | | | | | | | | | | | | |
| Min. | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 21.510 | 0.000 | |
| Max. | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 24.160 | 1100 | |
| Mean | | 0 | | 0 | | 0 | | 0 | | 0 | 22.549 | 242.4 | |

**Annual Runoff in MCM = 854 Annual Runoff in mm = 322**

**Peak Observed Discharge = 1100 cumecs on 17/11/2015 Corres. Water Level :24.095 m**

**Lowest Observed Discharge = 0.000 cumecs on 01/06/2015**

Q: Observed/Computed Discharge in cumecs

WL:Corresponding Mean Water Level(m.s.l) in m

*:Computed Discharge

#:Discarded Discharge (values changed as per rating curve)

*Note:Missing values ignored while arriving at Annual Runoff*

## Stage-Discharge Data for the period 2015 - 2016

**Station Name : Naidupeta ( AC000G4)** **Division : Hydrology Division, Chennai**

**Local River : Swarnamukhi** **Sub-Division : Palar Ponnaiyar SD, Chennai**

| Day | Dec | | Jan | | Feb | | Mar | | Apr | | May | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | W.L | Q | WL | Q | WL | Q | WL | Q | WL | Q | WL | Q |
| 1 | 23.080 | 447.9 | 20.560 | 0.954 | 20.680 | 3.851 # | 20.770 | 0.000 | | 0.000 | | 0.000 |
| 2 | 23.770 | 574.5 * | 20.540 | 0.693 | 20.640 | 2.731 # | 20.680 | 0.000 | | 0.000 | | 0.000 |
| 3 | 22.800 | 386.6 | 20.530 | 0.614 * | 20.640 | 3.380 | 20.630 | 0.000 | | 0.000 | | 0.000 |
| 4 | 22.380 | 230.1 | 20.520 | 0.527 | 20.640 | 3.311 | 20.690 | 0.000 | | 0.000 | | 0.000 |
| 5 | 22.010 | 121.5 | 20.510 | 0.347 | 20.630 | 2.479 # | 20.780 | 0.000 | | 0.000 | | 0.000 |
| 6 | 21.880 | 116.0 * | 20.500 | 0.311 | 20.625 | 2.924 | 20.820 | 0.000 | | 0.000 | | 0.000 |
| 7 | 21.660 | 81.42 | 20.500 | 0.000 | 20.600 | 1.795 * | 20.810 | 0.000 | | 0.000 | | 0.000 |
| 8 | 21.580 | 66.60 | 20.490 | 0.000 | 20.560 | 1.009 | 20.830 | 0.000 | | 0.000 | | 0.000 |
| 9 | 21.480 | 53.68 | 20.480 | 0.000 | 20.530 | 0.670 | 20.820 | 0.000 | | 0.000 | | 0.000 |
| 10 | 21.400 | 53.57 | 20.480 | 0.000 | 20.500 | 0.320 | 20.770 | 0.000 | | 0.000 | | 0.000 |
| 11 | 21.400 | 53.24 | 20.450 | 0.000 | 20.480 | 0.000 | 20.800 | 0.000 | | 0.000 | | 0.000 |
| 12 | 21.340 | 49.94 | 20.600 | 1.795 * | 20.450 | 0.000 | 20.790 | 0.000 | | 0.000 | | 0.000 |
| 13 | 21.250 | 38.73 * | 20.640 | 2.731 * | 20.450 | 0.000 | 20.790 | 0.000 | | 0.000 | | 0.000 |
| 14 | 21.240 | 37.03 | 20.660 | 3.268 * | 20.450 | 0.000 | 20.780 | 0.000 | | 0.000 | | 0.000 |
| 15 | 21.210 | 30.53 | 20.730 | 5.507 * | 20.420 | 0.000 | 20.740 | 0.000 | | 0.000 | | 0.000 |
| 16 | 21.140 | 25.06 | 20.720 | 5.153 * | 20.390 | 0.000 | 20.600 | 0.000 | | 0.000 | | 0.000 |
| 17 | 21.090 | 20.11 | 20.720 | 5.153 * | 20.390 | 0.000 | 20.550 | 0.000 | | 0.000 | | 0.000 |
| 18 | 20.990 | 15.78 | 20.650 | 2.994 # | 20.620 | 2.240 # | 20.510 | 0.000 | | 0.000 | | 0.000 |
| 19 | 20.990 | 16.23 | 20.670 | 4.360 | 20.630 | 2.479 # | 20.480 | 0.000 | | 0.000 | | 0.000 |
| 20 | 20.890 | 12.66 * | 20.700 | 4.943 | 20.550 | 0.949 | 20.480 | 0.000 | | 0.000 | | 0.000 |
| 21 | 20.830 | 9.477 | 20.720 | 6.001 | 20.540 | 0.747 * | 20.470 | 0.000 | | 0.000 | | 0.000 |
| 22 | 20.770 | 6.581 | 20.800 | 8.948 | 20.640 | 2.731 # | 20.460 | 0.000 | | 0.000 | | 0.000 |
| 23 | 20.760 | 6.635 # | 20.780 | 7.376 | 20.690 | 4.160 # | 20.450 | 0.000 | | 0.000 | | 0.000 |
| 24 | 20.670 | 3.554 * | 20.770 | 7.033 * | 20.730 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 25 | 20.670 | 3.554 * | 20.790 | 8.759 | 20.610 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 26 | 20.650 | 3.225 | 20.750 | 6.247 * | 20.570 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 27 | 20.630 | 2.479 * | 20.730 | 5.597 | 20.630 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 28 | 20.620 | 1.851 | 20.710 | 4.695 | 20.740 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 29 | 20.600 | 1.308 | 20.640 | 3.300 | 20.780 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 30 | 20.600 | 1.287 | 20.650 | 3.661 | | | | 0.000 | | 0.000 | | 0.000 |
| 31 | 20.590 | 1.311 | 20.640 | 2.731 * | | | | 0.000 | | | | 0.000 |
| Ten-Daily Mean | | | | | | | | | | | | |
| I Ten-Daily | 22.204 | 213.2 | 20.511 | 0.345 | 20.604 | 2.247 | 20.760 | 0.000 | | 0.000 | | 0.000 |
| II Ten-Daily | 21.154 | 29.93 | 20.654 | 3.590 | 20.483 | 0.567 | 20.652 | 0.000 | | 0.000 | | 0.000 |
| III Ten-Daily | 20.672 | 3.751 | 20.725 | 5.850 | 20.659 | 0.849 | 20.460 | 0.000 | | 0.000 | | 0.000 |
| Monthly | | | | | | | | | | | | |
| Min. | 20.590 | 1.287 | 20.450 | 0.000 | 20.390 | 0.000 | 20.450 | 0.000 | | 0.000 | | 0.000 |
| Max. | 23.770 | 574.5 | 20.800 | 8.948 | 20.780 | 4.160 | 20.830 | 0.000 | | 0.000 | | 0.000 |
| Mean | 21.322 | 79.76 | 20.633 | 3.345 | 20.579 | 1.234 | 20.674 | 0 | | 0 | | 0 |

**Peak Computed Discharge = 574.5 cumecs on 02/12/2015** **Corres. Water Level :23.77 m**

**Lowest Computed Discharge = 0.614 cumecs on 03/01/2016** **Corres. Water Level :20.53 m**

Q: Observed/Computed Discharge in cumecs

WL:Corresponding Mean Water Level(m.s.l) in m

*:Computed Discharge

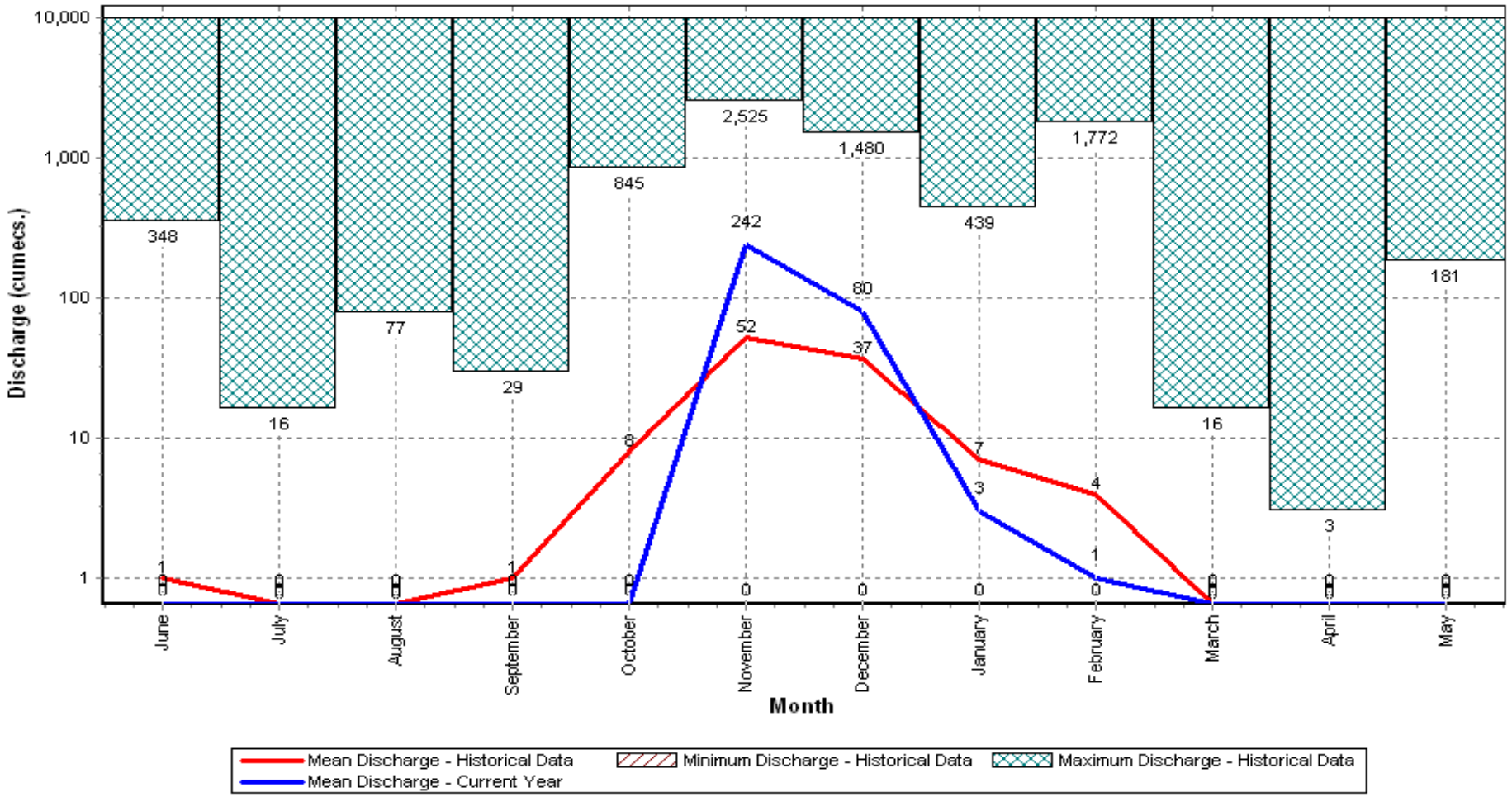
#:Discarded Discharge (values changed as per rating curve)

*Note:Missing values ignored while arriving at Annual Runoff*

**HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016**

**Station Name : Naidupeta ( AC000G4)** | **Data considered : 1979-2016** | **Division : Hydrology Division, Chennai**

**Local River : Swarnamukhi** | **Sub-Division : Palar Ponnaiyar SD, Chennai**



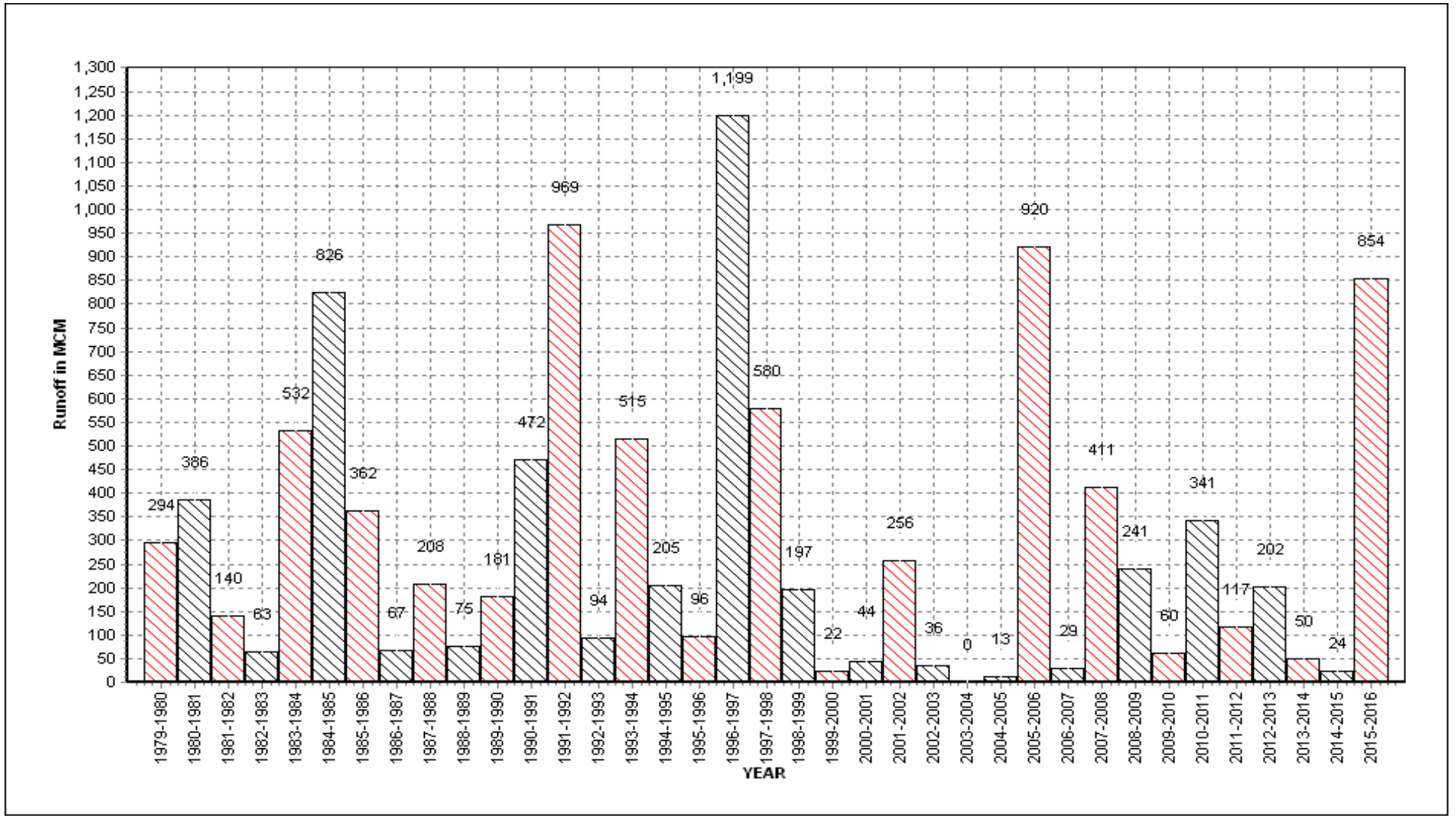
**Annual Runoff Values for the period: 1979 - 2016**

**Station Name : Naidupeta ( AC000G4)**

**Local River : Swarnamukhi**

**Division : Hydrology Division, Chennai**

**Sub-Division : Palar Ponnaiyar SD, Chennai**




*Note: Missing values have not been considered while arriving at Annual Runoff*

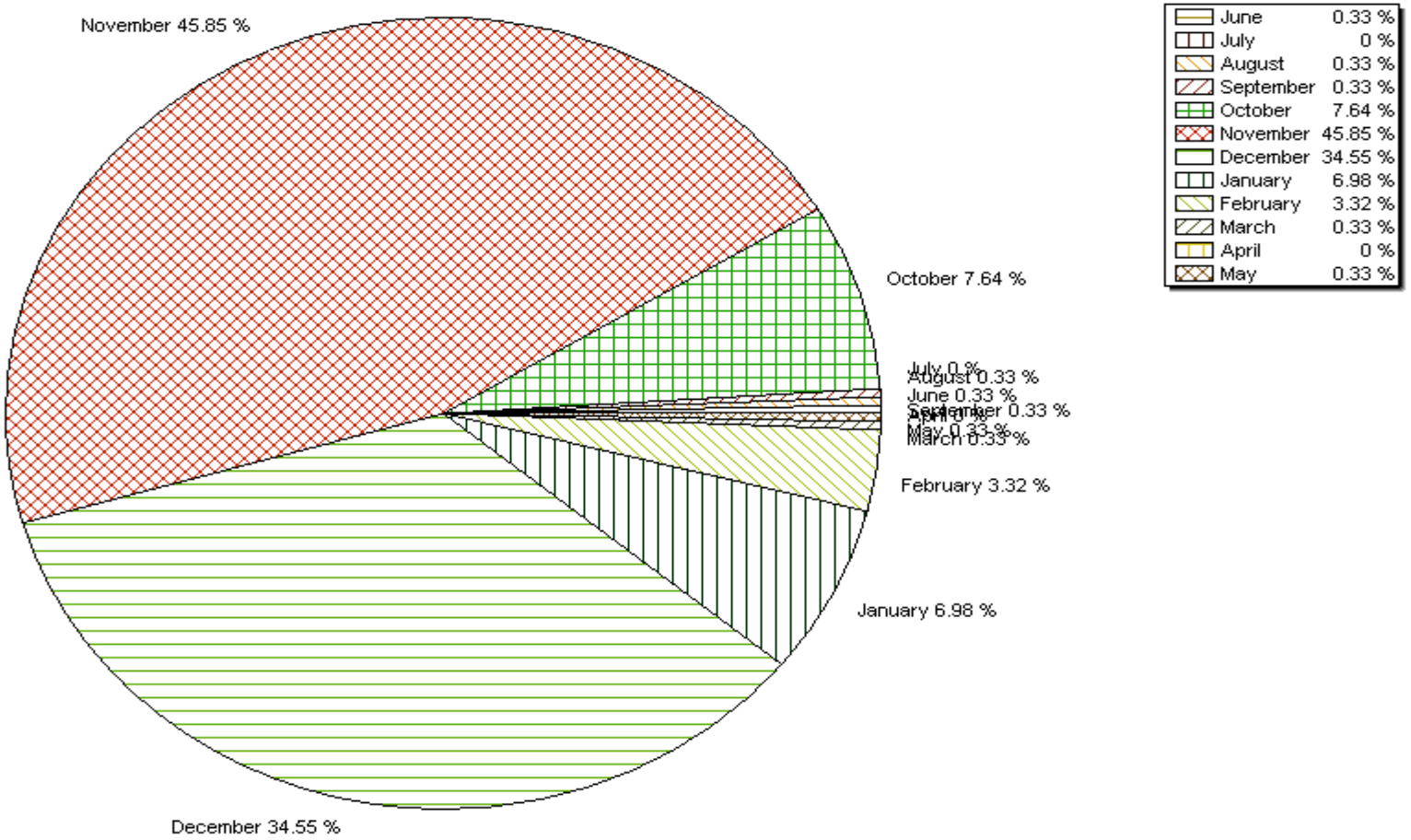
**Monthly Average Runoff based on period : 1979-2015**

**Station Name : Naidupeta ( AC000G4)**

**Local River : Swarnamukhi**

**Division : Hydrology Division, Chennai**

**Sub-Division : Palar Ponnaiyar SD, Chennai**



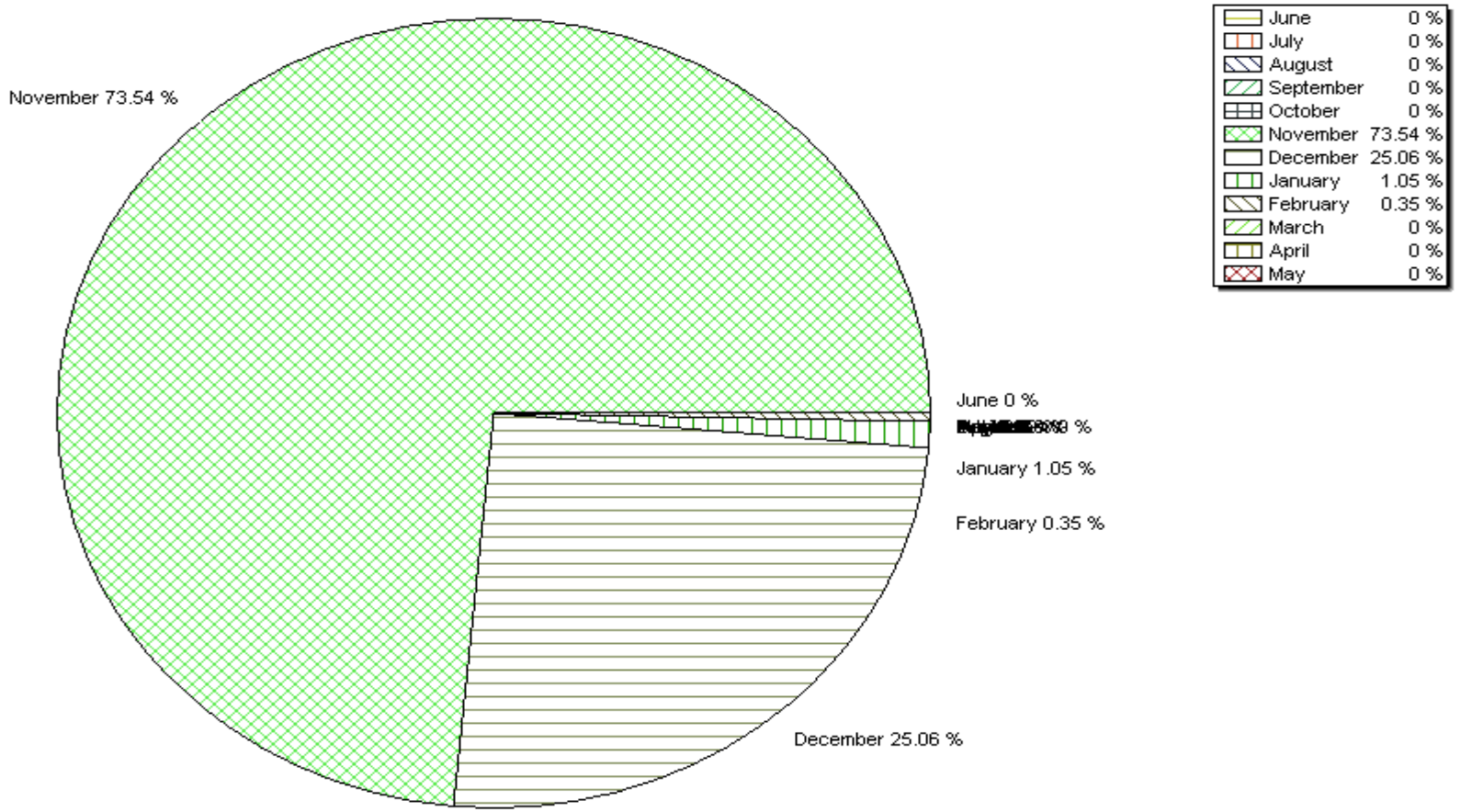
**Monthly Runoff for the Year : 2015-2016**

**Station Name : Naidupeta ( AC000G4)**

**Local River : Swarnamukhi**

**Division : Hydrology Division, Chennai**

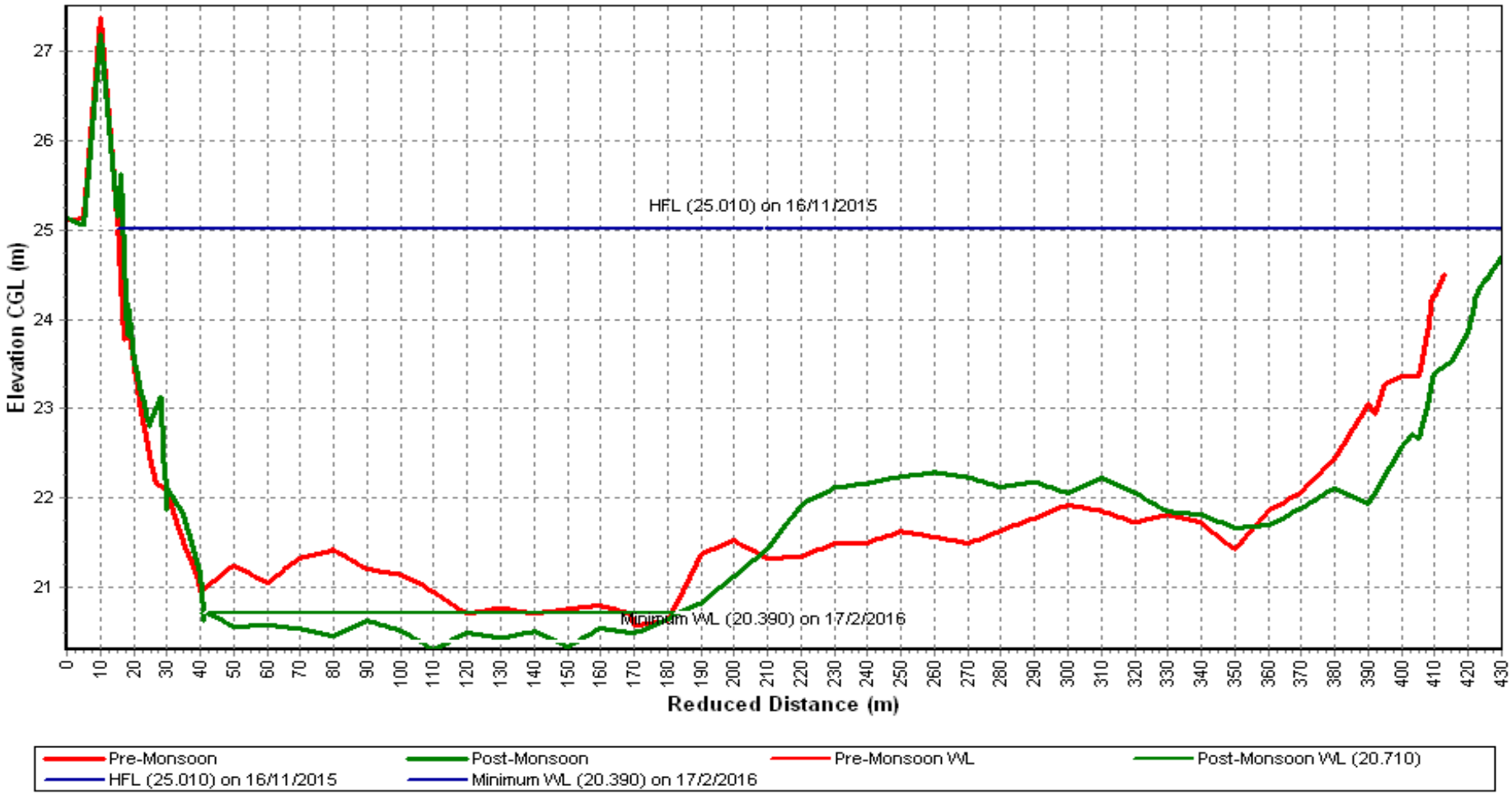
**Sub-Division : Palar Ponnaiyar SD, Chennai**



**Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2015-2016**

**Station Name : Naidupeta ( AC000G4)** **Division : Hydrology Division, Chennai**

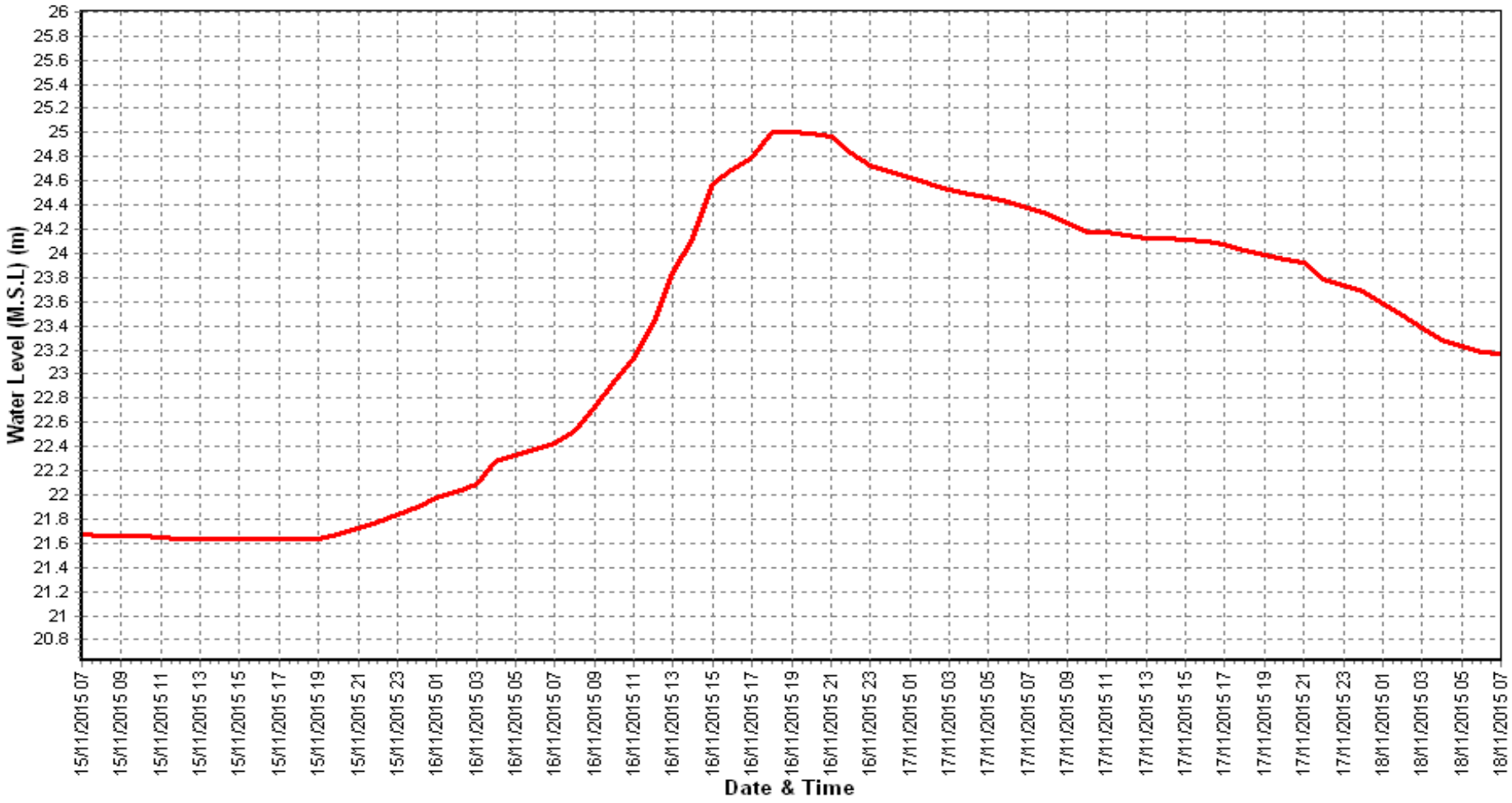
**Local River : Swarnamukhi** **Sub-Division : Palar Ponnaiyar SD, Chennai**



**Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2015-2016**

**Station Name : Naidupeta ( AC000G4)** **Division : Hydrology Division, Chennai**

**Local River : Swarnamukhi** **Sub-Division : Palar Ponnaiyar SD, Chennai**




Time Span: 72 Hrs

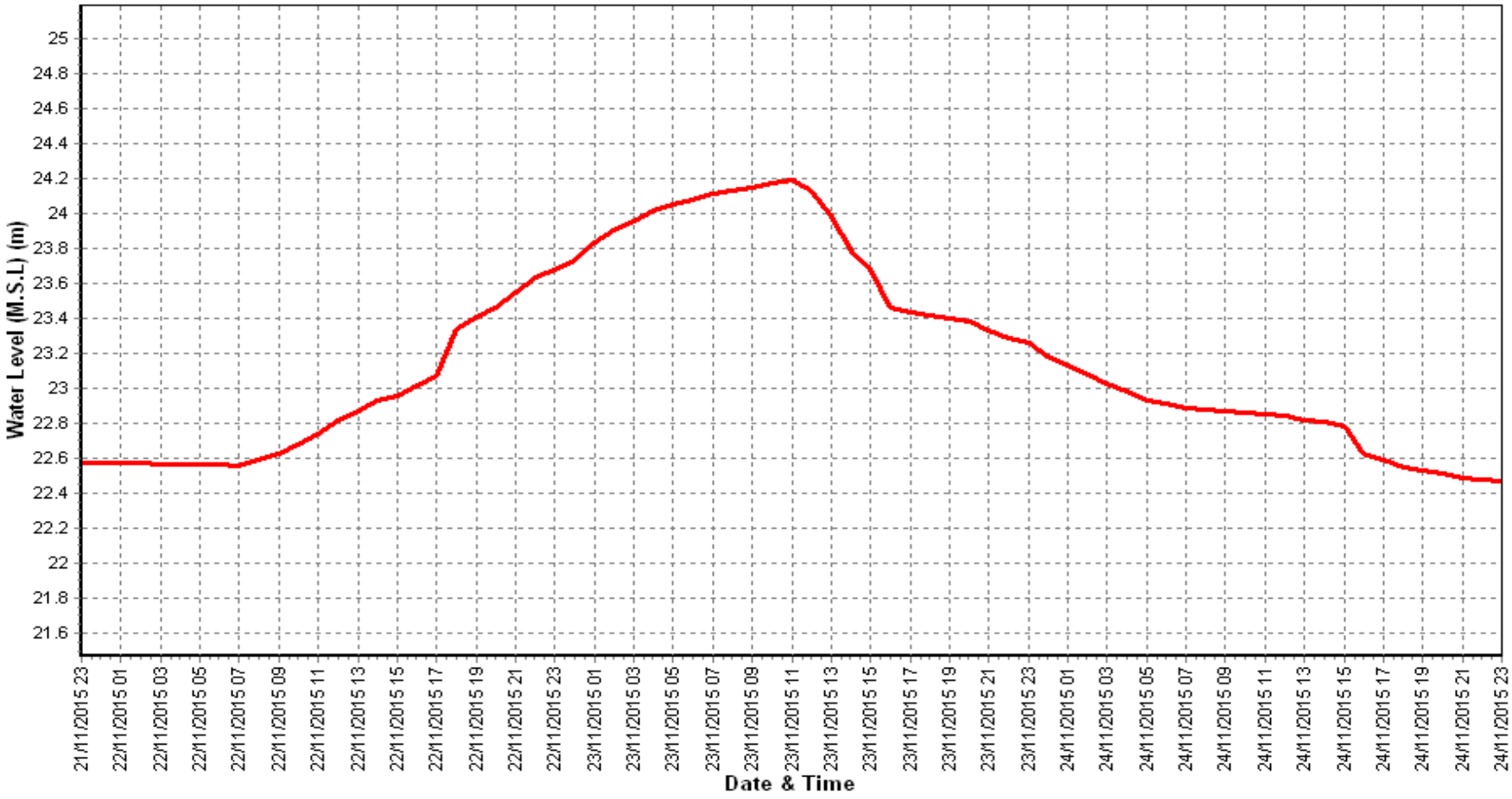
**Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2015-2016**

**Station Name : Naidupeta ( AC000G4)**

**Local River : Swarnamukhi**

**Division : Hydrology Division, Chennai**

**Sub-Division : Palar Ponnaiyar SD, Chennai**

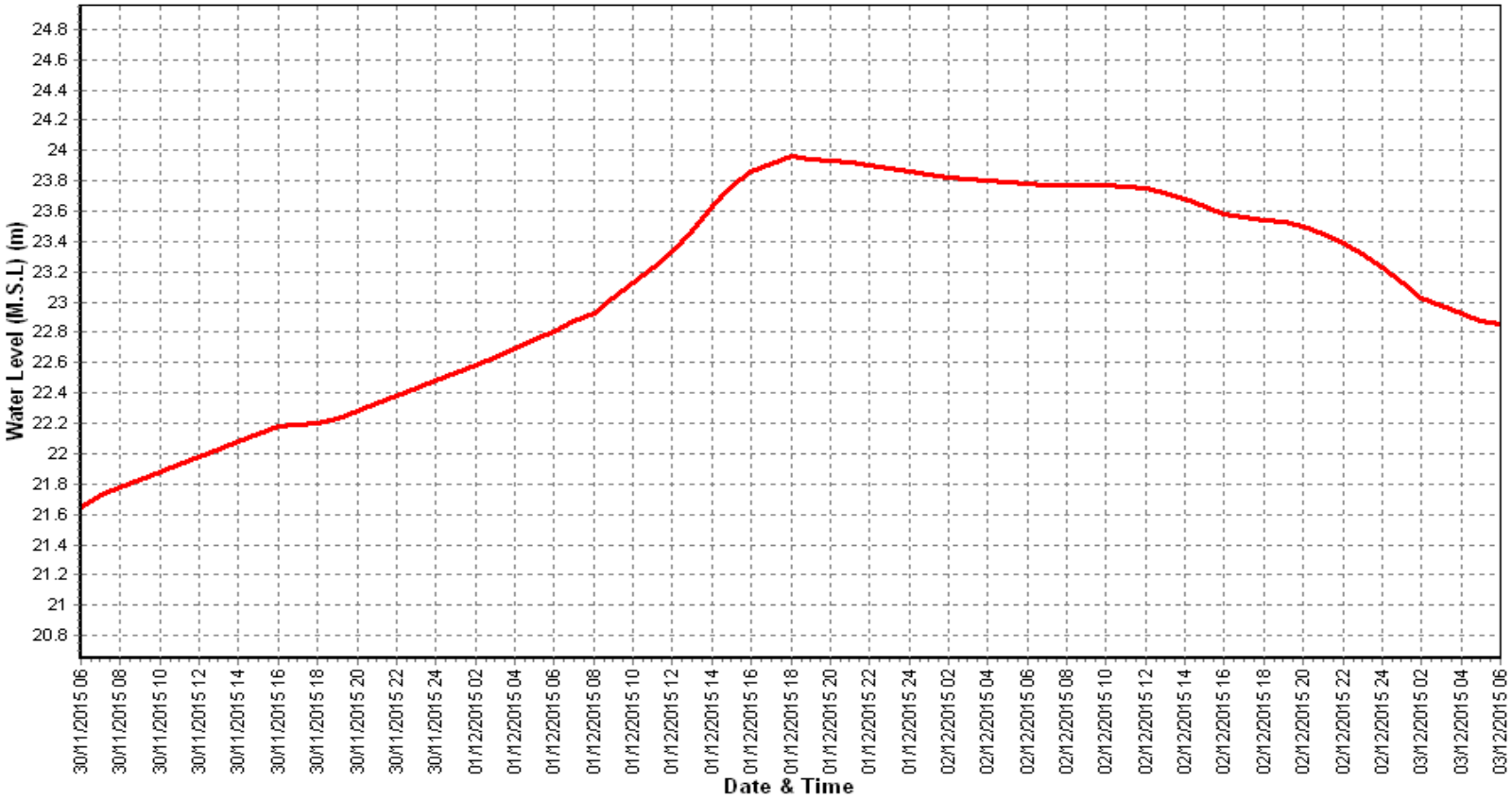



Time Span: 72 Hrs

**Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2015-2016**

**Station Name : Naidupeta ( AC000G4)**
**Local River : Swarnamukhi**

**Division : Hydrology Division, Chennai**
**Sub-Division : Palar Ponnaiyar SD, Chennai**




Time Span: 72 Hrs

# HISTORY SHEET

**Water Year : 2015-2016**

| | | | | | |
|---|---|---|---|---|---|
| **Site** | **: Sulurpet** | | **Code** | **: AB000N5** | |
| State | : Andhra Pradesh | | District | | Nellore |
| Basin | : EFR B Pennar-Cauvery | | Independent River | : | Kalingi |
| Tributary | : - | | Sub Tributary | : | |
| Sub-Sub Tributary | : | | Local River | : | Kalingi |
| Division | : Hydrology Division, Chennai | | Sub-Division | : | PPSD, Chennai |
| Drainage Area | : 5927 Sq. Km. | | Bank | : | Left |
| Latitude | : 13°42'28" | | Longitude | : | 80°00'36" |
| **Zero of Gauge (m)** | : 13.000 (m.s.l)Arb<br>-2.000 (m.s.l) | | 01/10/1988<br>01/05/2003 | - | 30/04/2003 |
| | Opening Date | | Closing Date | | |
| Gauge | : 01/10/1988 | | | | |
| Discharge | : 05/10/1988 | | | | |
| Sediment | : 23/10/2013 | | | | |
| Water Quality | : 01/12/1988 | | | | |

**Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)**

| | Maximum | | | Minimum | | |
|---|---|---|---|---|---|---|
| **Year** | **Q (cumecs)** | **WL (m)** | **Date** | **Q (cumecs)** | **WL (m)** | **Date** |
| 1989-1990 | 19.70 | 14.740 | 03/12/1989 | 0.000 | Dry Bed | 01/06/1989 |
| 1990-1991 | 285.0 | 19.200 | 15/11/1990 | 0.000 | Dry Bed | 01/06/1990 |
| 1991-1992 | 486.8 | 19.235 | 15/11/1991 | 0.000 | Dry Bed | 01/06/1991 |
| 1992-1993 | 66.50 | 15.298 | 19/11/1992 | 0.000 | Dry Bed | 01/06/1992 |
| 1993-1994 | 764.7 | 18.445 | 10/11/1993 | 0.000 | Dry Bed | 01/06/1993 |
| 1994-1995 | 149.0 | 16.390 | 13/01/1995 | 0.000 | Dry Bed | 01/06/1994 |
| 1995-1996 | 99.00 | 15.820 | 27/10/1995 | 0.000 | Dry Bed | 01/06/1995 |
| 1996-1997 | 877.0 | 19.150 | 13/12/1996 | 0.000 | Dry Bed | 01/06/1996 |
| 1997-1998 | 695.0 | 18.650 | 28/11/1997 | 0.000 | Dry Bed | 01/06/1997 |
| 1998-1999 | 453.4 | 17.500 | 07/11/1998 | 0.000 | Dry Bed | 01/06/1998 |
| 1999-2000 | 60.39 | 15.415 | 23/11/1999 | 0.000 | Dry Bed | 01/06/1999 |
| 2000-2001 | 58.26 | 15.240 | 04/12/2000 | 0.000 | Dry Bed | 01/06/2000 |
| 2001-2002 | 888.9 | 18.795 | 16/10/2001 | 0.000 | Dry Bed | 01/06/2001 |
| 2002-2003 | 138.0 | 16.320 | 10/11/2002 | 0.000 | Dry Bed | 01/06/2002 |
| 2003-2004 | 27.14 | 1.610 | 24/07/2003 | 0.000 | Dry Bed | 01/06/2003 |
| 2004-2005 | 12.24 | 1.030 | 07/11/2004 | 0.000 | Dry Bed | 01/06/2004 |
| 2005-2006 | 1029 | 6.435 | 04/12/2005 | 0.000 | Dry Bed | 01/06/2005 |
| 2006-2007 | 171.4 | 3.162 | 20/11/2006 | 0.000 | Dry Bed | 01/06/2006 |

Q : Observed / Computed Discharge
WL : Corresponding Water Level(m.s.l)

**Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)**

| | Maximum | | | Minimum | | |
|---|---|---|---|---|---|---|
| **Year** | **Q (cumecs)** | **WL (m)** | **Date** | **Q (cumecs)** | **WL (m)** | **Date** |
| 2007-2008 | 1033 | 6.445 | 29/10/2007 | 0.000 | Dry Bed | 01/06/2007 |
| 2008-2009 | 843.6 | 5.985 | 28/11/2008 | 0.000 | Dry Bed | 01/06/2008 |
| 2009-2010 | 408.1 | 3.425 | 09/11/2009 | 0.000 | Dry Bed | 01/06/2009 |
| 2010-2011 | 166.6 | 3.770 | 18/11/2010 | 0.000 | Dry Bed | 01/06/2010 |
| 2011-2012 | 262.5 | 4.460 | 28/11/2011 | 0.000 | Dry Bed | 01/06/2011 |
| 2012-2013 | 414.9 | 4.950 | 05/12/2012 | 0.000 | Dry Bed | 01/06/2012 |
| 2013-2014 | 17.79 | 1.810 | 27/10/2013 | 0.000 | Dry Bed | 01/06/2013 |
| 2014-2015 | 126.4 | 2.705 | 14/11/2014 | 0.000 | Dry Bed | 01/06/2014 |

Q : Observed / Computed Discharge
WL : Corresponding Water Level(m.s.l)

## Stage-Discharge Data for the period 2015 - 2016

**Station Name : Sulurpet ( AB000N5)** **Division : Hydrology Division, Chennai**

**Local River : Kalingi** **Sub-Division : PPSD, Chennai**

| Day | Jun | | Jul | | Aug | | Sep | | Oct | | Nov | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | W.L | Q | W.L | Q | W.L | Q | W.L | Q | W.L | Q | W.L | Q | |
| 1 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | |
| 2 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | |
| 3 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | |
| 4 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | |
| 5 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | |
| 6 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | |
| 7 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | |
| 8 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | |
| 9 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | |
| 10 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 4.100 | 277.8 | # |
| 11 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 2.315 | 53.72 | |
| 12 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 2.335 | 57.35 | |
| 13 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 2.920 | 112.2 | |
| 14 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 2.340 | 62.73 | |
| 15 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 1.580 | 10.63 | * |
| 16 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 6.620 | 874.5 | |
| 17 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 6.430 | 639.2 | |
| 18 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 4.130 | 214.4 | |
| 19 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 4.355 | 313.5 | |
| 20 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 3.820 | 250.6 | |
| 21 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 3.993 | 296.6 | |
| 22 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 3.460 | 183.5 | * |
| 23 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 4.820 | 482.0 | |
| 24 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 4.040 | 275.6 | |
| 25 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 2.740 | 97.47 | * |
| 26 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 2.130 | 42.92 | # |
| 27 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 1.920 | 28.52 | # |
| 28 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 1.690 | 16.24 | |
| 29 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 1.580 | 10.63 | * |
| 30 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 2.150 | 44.42 | # |
| 31 | | | | 0.000 | | 0.000 | | | | 0.000 | | | |
| Ten-Daily Mean | | | | | | | | | | | | | |
| I Ten-Daily | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 4.100 | 27.78 | |
| II Ten-Daily | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 3.685 | 258.9 | |
| III Ten-Daily | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 2.852 | 147.8 | |
| Monthly | | | | | | | | | | | | | |
| Min. | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 1.580 | 0.000 | |
| Max. | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 6.620 | 874.5 | |
| Mean | | 0 | | 0 | | 0 | | 0 | | 0 | 3.308 | 144.8 | |

**Annual Runoff in MCM = 550 Annual Runoff in mm = 93**

**Peak Observed Discharge = 874.5 cumecs on 16/11/2015 Corres. Water Level :6.62 m**

**Lowest Observed Discharge = 0.000 cumecs on 01/06/2015**

Q: Observed/Computed Discharge in cumecs

WL:Corresponding Mean Water Level(m.s.l) in m

*:Computed Discharge

#:Discarded Discharge (values changed as per rating curve)

*Note:Missing values ignored while arriving at Annual Runoff*

## Stage-Discharge Data for the period 2015 - 2016

**Station Name : Sulurpet ( AB000N5)** **Division : Hydrology Division, Chennai**

**Local River : Kalingi** **Sub-Division : PPSD, Chennai**

| Day | Dec | | Jan | | Feb | | Mar | | Apr | | May | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | W.L | Q | WL | Q | WL | Q | WL | Q | WL | Q | WL | Q |
| 1 | 5.560 | 513.6 | 0.830 | 0.000 | 0.785 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 2 | 6.390 | 723.2 | 0.820 | 0.000 | 0.785 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 3 | 4.590 | 299.4 | 0.820 | 0.000 | 0.780 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 4 | 3.420 | 202.4 | 0.810 | 0.000 | 0.760 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 5 | 2.500 | 75.96 # | 0.810 | 0.000 | 0.750 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 6 | 2.000 | 39.83 * | 0.810 | 0.000 | 0.750 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 7 | 1.890 | 32.98 | 0.810 | 0.000 | 0.750 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 8 | 1.730 | 24.42 | 0.810 | 0.000 | 0.730 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 9 | 1.580 | 18.01 | 0.810 | 0.000 | 0.730 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 10 | 1.535 | 13.75 | 0.810 | 0.000 | 0.730 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 11 | 1.500 | 13.01 | 0.810 | 0.000 | 0.700 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 12 | 1.370 | 10.27 # | 0.810 | 0.000 | 0.650 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 13 | 1.230 | 6.232 * | 0.790 | 0.000 | 0.640 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 14 | 1.070 | 2.798 # | 0.780 | 0.000 | 0.640 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 15 | 1.050 | 2.970 | 0.780 | 0.000 | 0.640 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 16 | 1.020 | 2.079 | 0.780 | 0.000 | 0.640 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 17 | 1.000 | 1.842 | 0.780 | 0.000 | 0.630 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 18 | 1.900 | 33.28 | 0.780 | 0.000 | 0.630 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 19 | 1.030 | 2.715 | 0.780 | 0.000 | 0.620 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 20 | 1.010 | 1.845 * | 0.780 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 21 | 0.935 | 0.965 | 0.780 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 22 | 0.915 | 0.889 | 0.780 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 23 | 0.910 | 0.658 | 0.780 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 24 | 0.900 | 0.595 * | 0.780 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 25 | 0.895 | 0.554 * | 0.800 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 26 | 0.890 | 0.488 | 0.800 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 27 | 0.885 | 0.476 * | 0.820 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 28 | 0.885 | 0.401 | 0.820 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 29 | 0.860 | 0.296 | 0.800 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 30 | 0.840 | 0.161 | 0.800 | 0.000 | | | | 0.000 | | 0.000 | | 0.000 |
| 31 | 0.830 | 0.000 | 0.800 | 0.000 | | | | 0.000 | | | | 0.000 |
| Ten-Daily Mean | | | | | | | | | | | | |
| I Ten-Daily | 3.119 | 194.4 | 0.814 | 0.000 | 0.755 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| II Ten-Daily | 1.218 | 7.704 | 0.787 | 0.000 | 0.643 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| III Ten-Daily | 0.886 | 0.499 | 0.796 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| Monthly | | | | | | | | | | | | |
| Min. | 0.830 | 0.000 | 0.780 | 0.000 | 0.620 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| Max. | 6.390 | 723.2 | 0.830 | 0.000 | 0.785 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| Mean | 1.714 | 65.36 | 0.799 | 0 | 0.702 | 0 | | 0 | | 0 | | 0 |

**Peak Computed Discharge = 183.5 cumecs on 22/11/2015 Corres. Water Level :3.46 m**

**Lowest Computed Discharge = 0.476 cumecs on 27/12/2015 Corres. Water Level :0.885 m**

Q: Observed/Computed Discharge in cumecs

WL:Corresponding Mean Water Level(m.s.l) in m

*:Computed Discharge

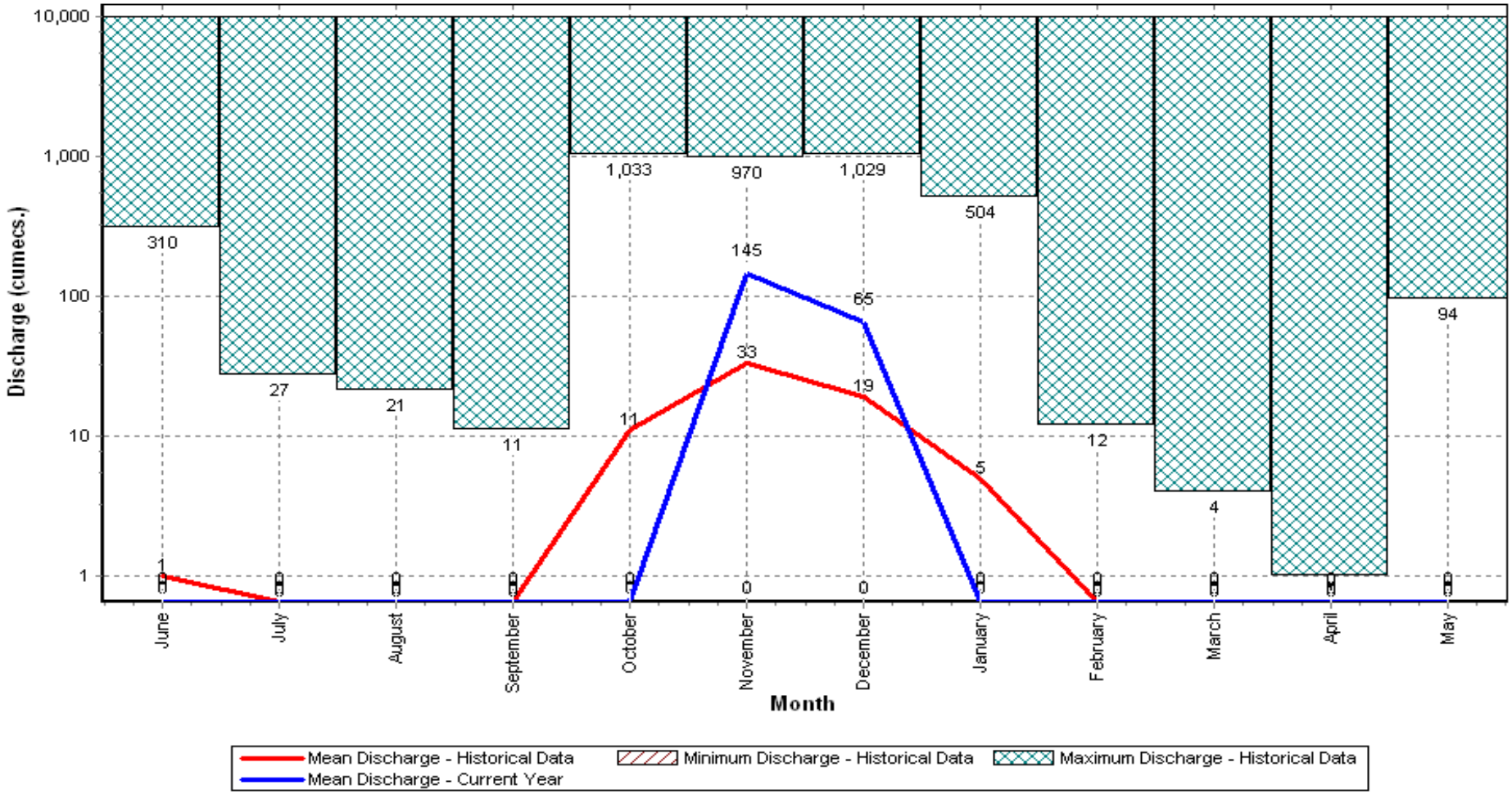
#:Discarded Discharge (values changed as per rating curve)

*Note:Missing values ignored while arriving at Annual Runoff*

**HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016**

**Station Name : Sulurpet ( AB000N5)** | **Data considered : 1989-2016** | **Division : Hydrology Division, Chennai**

**Local River : Kalingi** | **Sub-Division : PPSD, Chennai**



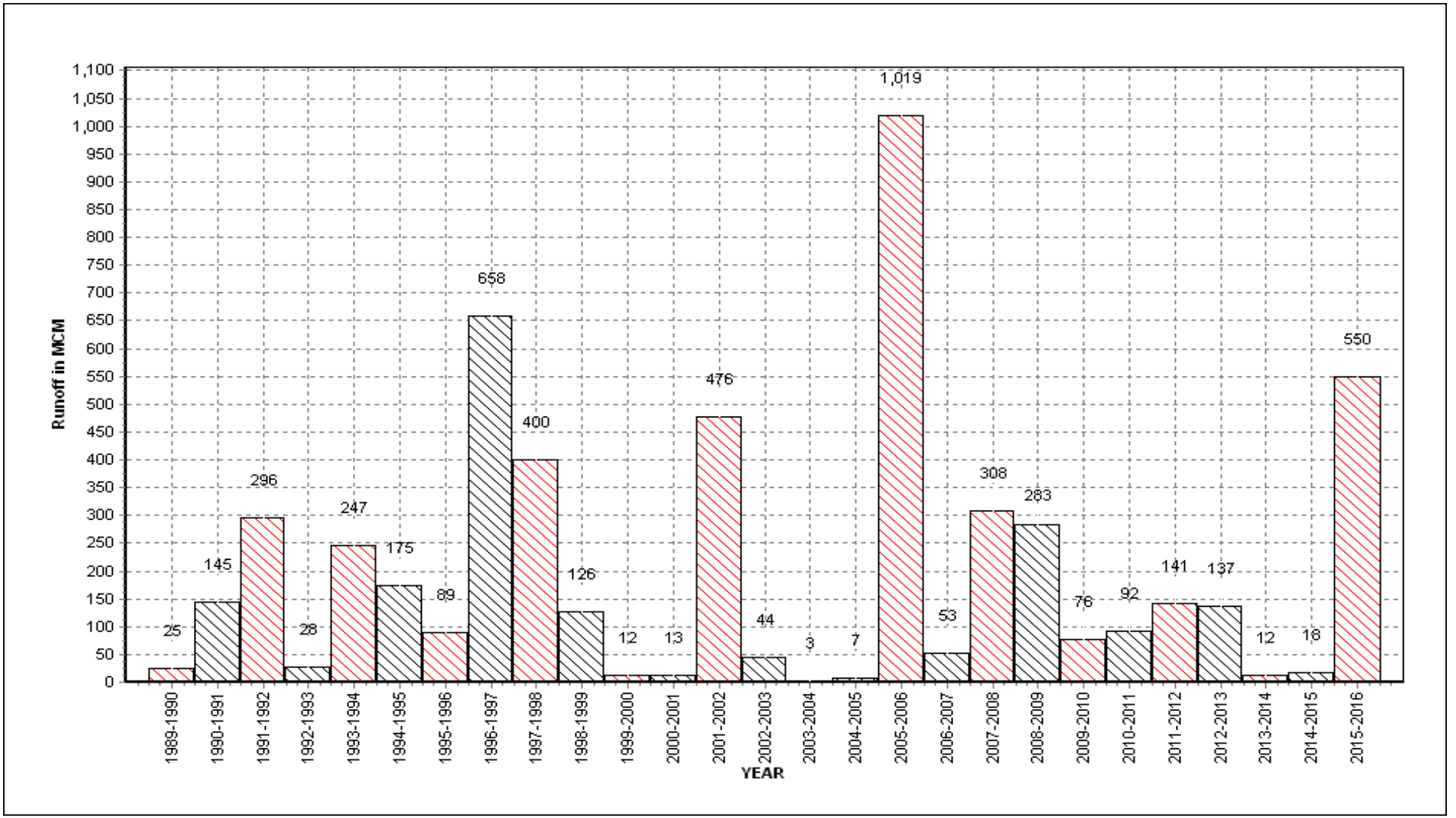
**Annual Runoff Values for the period: 1989 - 2016**

**Station Name : Sulurpet ( AB000N5)**

**Division : Hydrology Division, Chennai**

**Local River : Kalingi**

**Sub-Division : PPSD, Chennai**

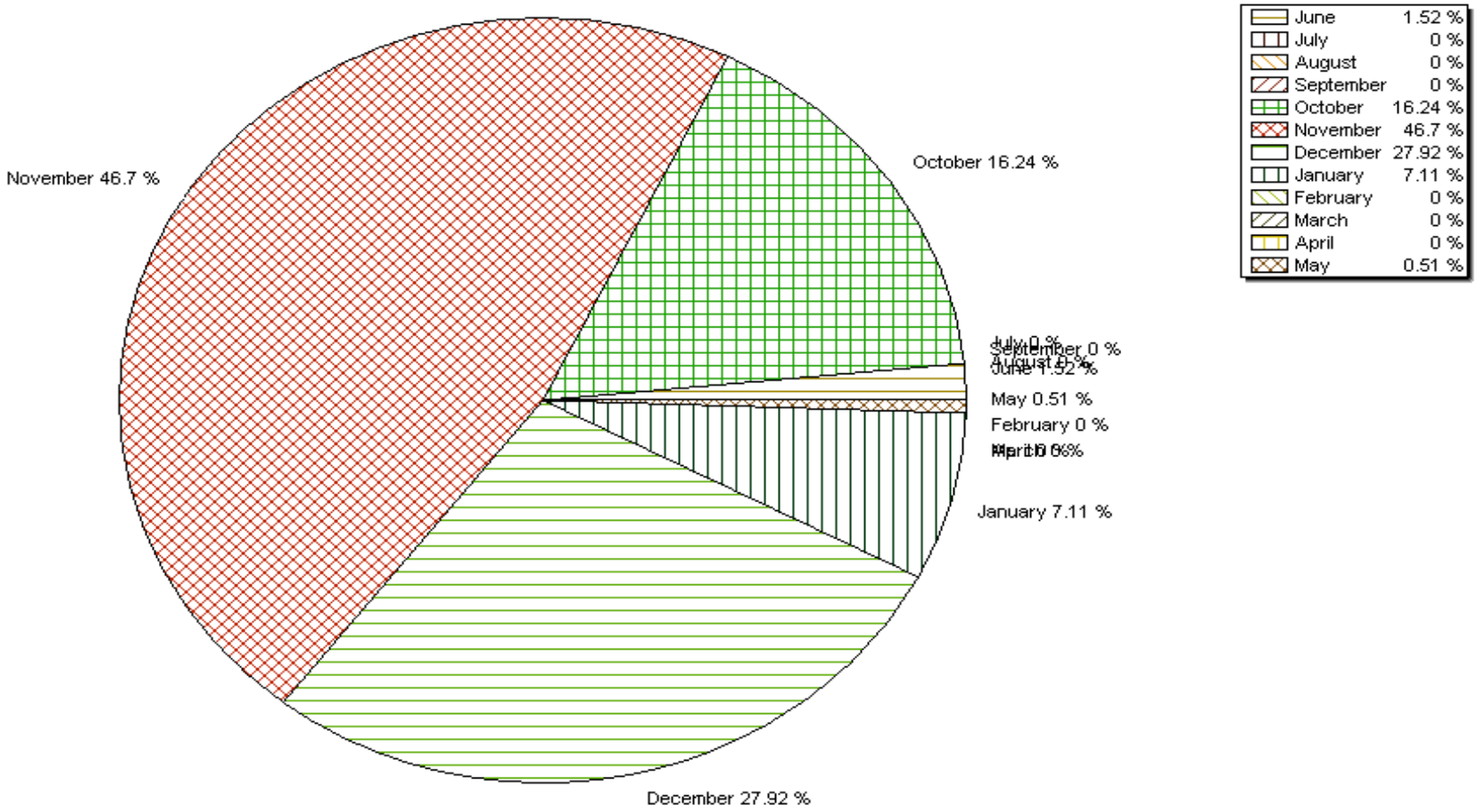



*Note: Missing values have not been considered while arriving at Annual Runoff*

**Monthly Average Runoff based on period : 1989-2015**

**Station Name : Sulurpet ( AB000N5)**
**Local River : Kalingi**

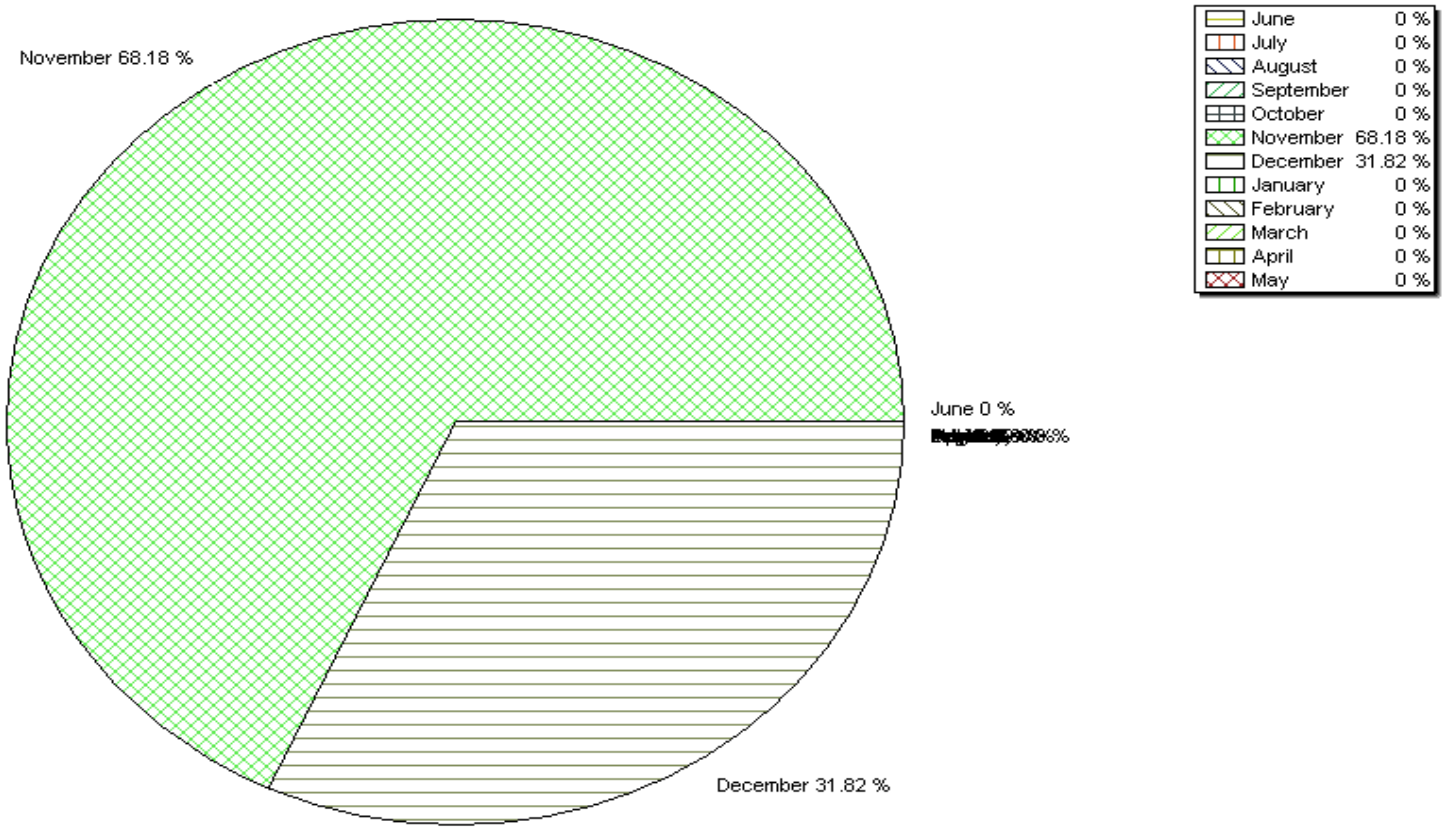
**Division : Hydrology Division, Chennai**
**Sub-Division : PPSD, Chennai**



**Monthly Runoff for the Year : 2015-2016**

**Station Name : Sulurpet ( AB000N5)**
**Local River : Kalingi**

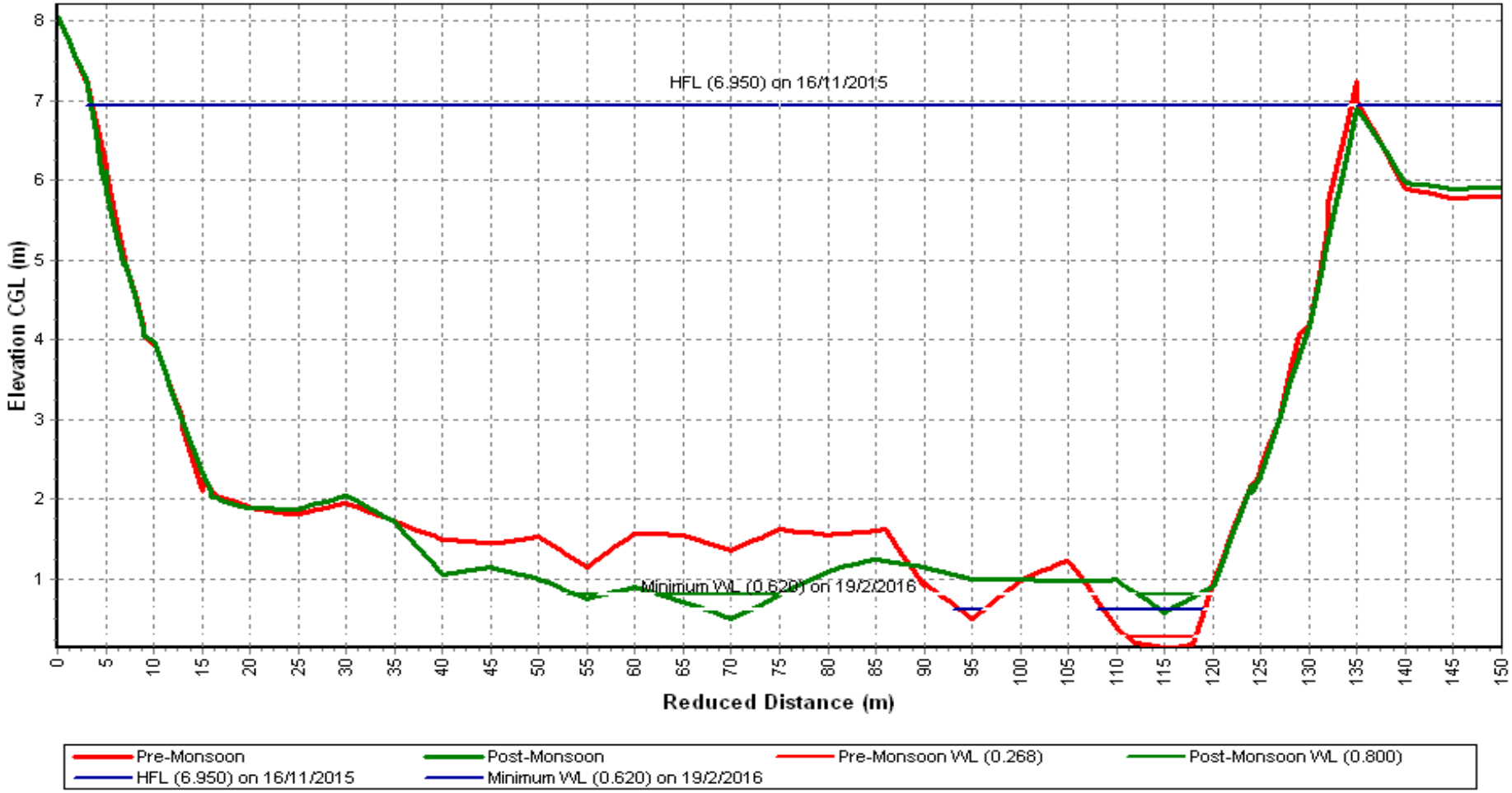
**Division : Hydrology Division, Chennai**
**Sub-Division : PPSD, Chennai**



**Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2015-2016**

**Station Name : Sulurpet ( AB000N5)** **Division : Hydrology Division, Chennai**

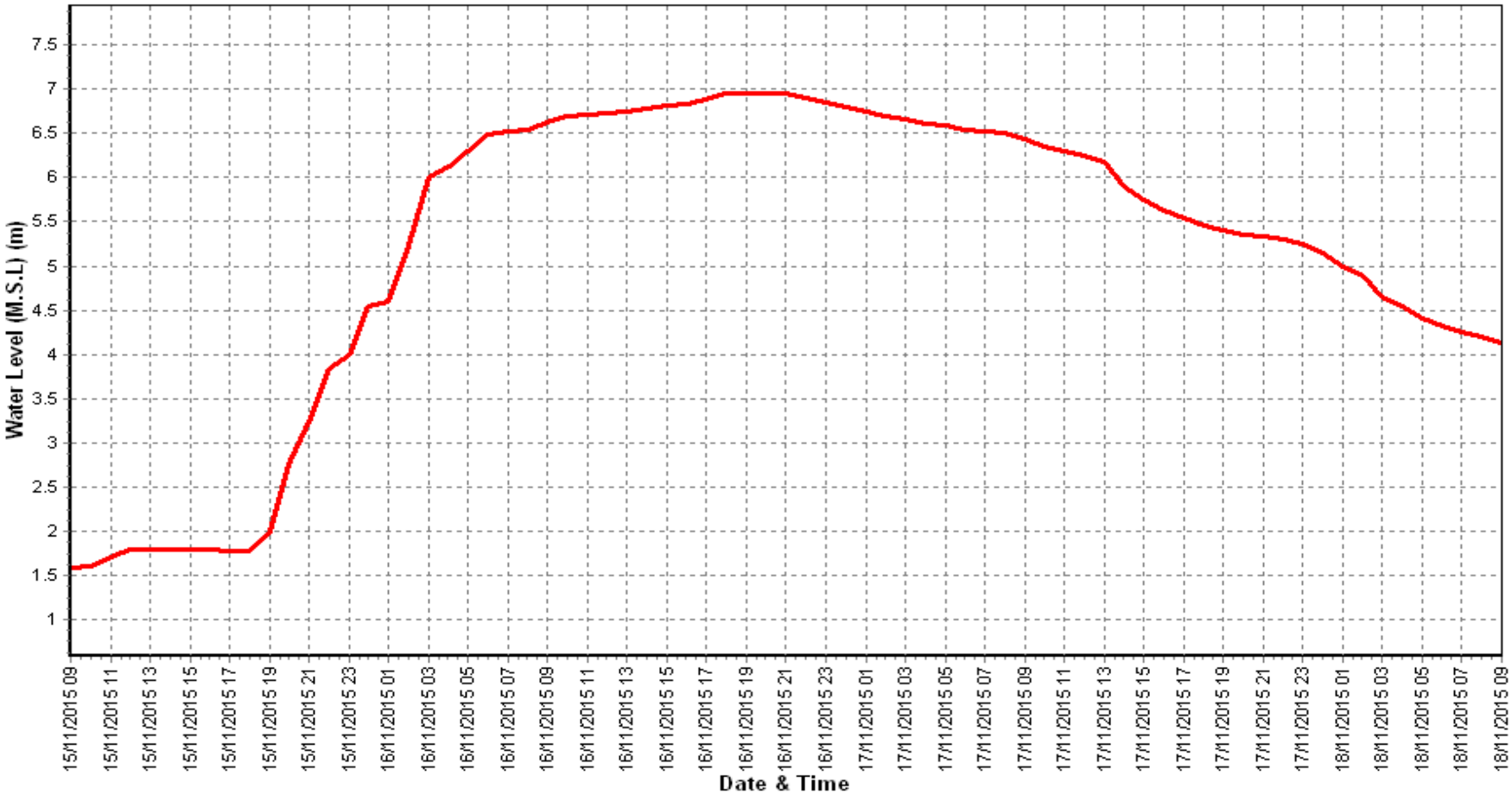
**Local River : Kalingi** **Sub-Division : PPSD, Chennai**



**Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2015-2016**

**Station Name : Sulurpet ( AB000N5)** **Division : Hydrology Division, Chennai**

**Local River : Kalingi** **Sub-Division : PPSD, Chennai**

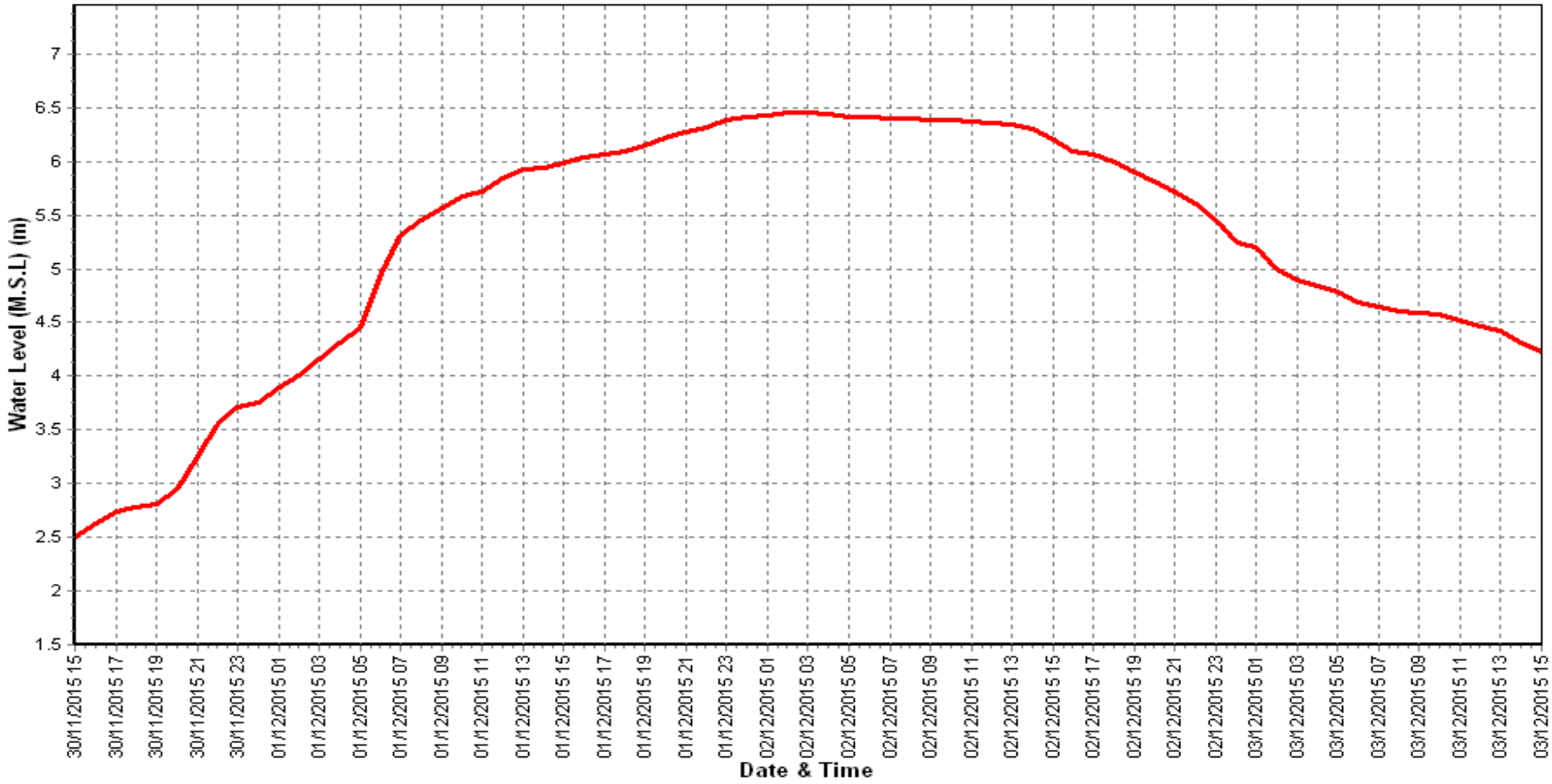



Time Span: 72 Hrs

**Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2015-2016**

**Station Name : Sulurpet ( AB000N5)**
**Local River : Kalingi**

**Division : Hydrology Division, Chennai**
**Sub-Division : PPSD, Chennai**



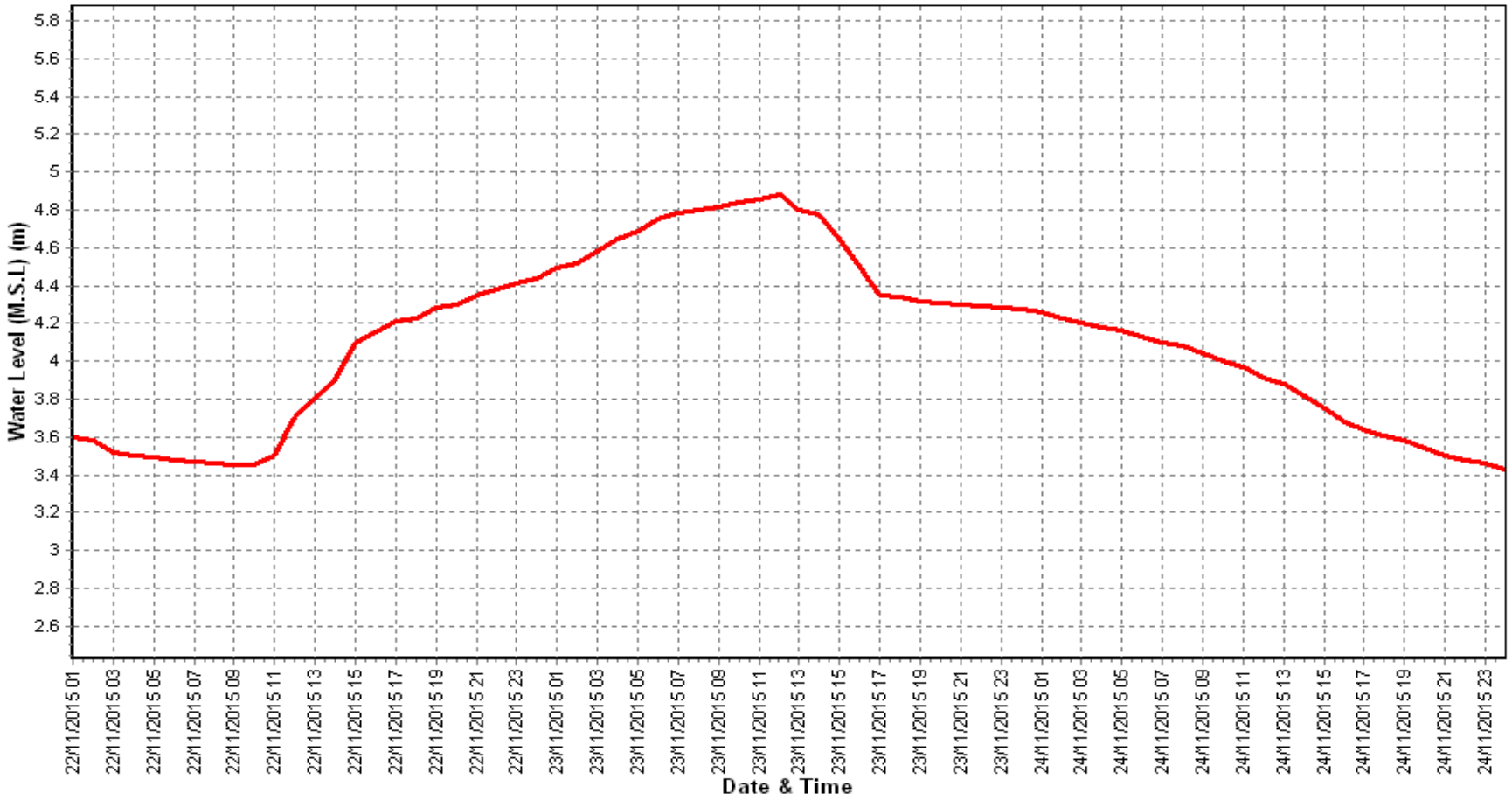



Time Span: 72 Hrs

**Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2015-2016**

**Station Name : Sulurpet ( AB000N5)** **Division : Hydrology Division, Chennai**

**Local River : Kalingi** **Sub-Division : PPSD, Chennai**




Time Span: 72 Hrs

## HISTORY SHEET

**Water Year : 2015-2016**

| | | | | | |
|---|---|---|---|---|---|
| **Site** | : | **Chengalpet** | **Code** | : | **CQ000C1** |
| State | : | Tamil Nadu | District | | Kancheepuram |
| Basin | : | EFR B Pennar-Cauvery | Independent River | : | Palar |
| Tributary | : | - | Sub Tributary | : | |
| Sub-Sub Tributary | : | | Local River | : | Palar |
| Division | : | Hydrology Division, Chennai | Sub-Division | : | Palar Ponnaiyar SD, Chennai |
| Drainage Area | : | 16230 Sq. Km. | Bank | : | Right |
| Latitude | : | 12°39'00" | Longitude | : | 79°56'50" |
| **Zero of Gauge (m)** | : | 26.000 (m.s.l)<br>24.000 (m.s.l) | 01/09/1977<br>01/06/2006 | - | 31/05/2006 |
| | | Opening Date | Closing Date | | |
| Gauge | : | 01/09/1977 | | | |
| Discharge | : | 01/10/1978 | | | |
| Sediment | : | | | | |
| Water Quality | : | 01/06/1979 | | | |

**Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)**

| | Maximum | | | Minimum | | |
|---|---|---|---|---|---|---|
| **Year** | **Q (cumecs)** | **WL (m)** | **Date** | **Q (cumecs)** | **WL (m)** | **Date** |
| 1979-1980 | 1522 | 28.875 | 20/11/1979 | 0.000 | 26.860 | 01/06/1979 |
| 1980-1981 | 93.90 | 27.740 | 05/12/1980 | 0.000 | 27.030 | 01/06/1980 |
| 1981-1982 | 228.6 | 27.860 | 28/10/1981 | 0.000 | Dry Bed | 01/06/1981 |
| 1982-1983 | 60.40 | 27.650 | 05/11/1982 | 0.000 | Dry Bed | 01/06/1982 |
| 1983-1984 | 261.3 | 28.140 | 26/12/1983 | 0.000 | Dry Bed | 01/06/1983 |
| 1984-1985 | 129.8 | 27.610 | 18/11/1984 | 0.000 | Dry Bed | 01/06/1984 |
| 1985-1986 | 2690 | 29.220 | 14/11/1985 | 0.000 | Dry Bed | 01/06/1985 |
| 1986-1987 | 28.50 | 27.430 | 07/11/1986 | 0.000 | Dry Bed | 01/06/1986 |
| 1987-1988 | 31.21 | 27.408 | 07/11/1987 | 0.000 | Dry Bed | 01/06/1987 |
| 1988-1989 | 22.67 | 27.470 | 08/11/1988 | 0.000 | Dry Bed | 01/06/1988 |
| 1989-1990 | 120.0 | 27.680 | 03/12/1989 | 0.000 | Dry Bed | 01/06/1989 |
| 1990-1991 | 79.48 | 27.600 | 02/11/1990 | 0.000 | Dry Bed | 01/06/1990 |
| 1991-1992 | 2589 | 28.990 | 18/11/1991 | 0.000 | Dry Bed | 01/06/1991 |
| 1992-1993 | 133.5 | 27.343 | 19/11/1992 | 0.000 | Dry Bed | 01/06/1992 |
| 1993-1994 | 253.6 | 27.092 | 10/11/1993 | 0.000 | Dry Bed | 01/06/1993 |
| 1994-1995 | 437.9 | 27.070 | 07/11/1994 | 0.000 | Dry Bed | 01/06/1994 |
| 1995-1996 | 61.88 | 26.490 | 07/11/1995 | 0.000 | Dry Bed | 01/06/1995 |
| 1996-1997 | 1996 | 28.438 | 16/12/1996 | 0.000 | Dry Bed | 01/06/1996 |

Q : Observed / Computed Discharge
WL : Corresponding Water Level(m.s.l)

**Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)**

| | Maximum | | | Minimum | | |
|---|---|---|---|---|---|---|
| **Year** | **Q (cumecs)** | **WL (m)** | **Date** | **Q (cumecs)** | **WL (m)** | **Date** |
| 1997-1998 | 560.0 | 27.360 | 07/12/1997 | 0.000 | Dry Bed | 01/06/1997 |
| 1998-1999 | 1031 | 27.700 | 09/11/1998 | 0.000 | Dry Bed | 01/06/1998 |
| 1999-2000 | 41.12 | 26.570 | 30/11/1999 | 0.000 | Dry Bed | 01/06/1999 |
| 2000-2001 | 10.00 | 26.120 | 03/12/2000 | 0.000 | Dry Bed | 01/06/2000 |
| 2001-2002 | 74.31 | 26.790 | 23/12/2001 | 0.000 | Dry Bed | 01/06/2001 |
| 2002-2003 | 9.267 | 26.192 | 09/12/2002 | 0.000 | Dry Bed | 01/06/2002 |
| 2003-2004 | 1.960 | 25.930 | 15/11/2003 | 0.000 | Dry Bed | 01/06/2003 |
| 2004-2005 | 21.23 | 26.265 | 06/11/2004 | 0.000 | Dry Bed | 01/06/2004 |
| 2005-2006 | 568.2 | 27.230 | 05/12/2005 | 0.000 | Dry Bed | 01/06/2005 |
| 2006-2007 | 21.83 | 26.220 | 30/10/2006 | 0.000 | Dry Bed | 01/06/2006 |
| 2007-2008 | 301.2 | 26.875 | 20/12/2007 | 0.000 | Dry Bed | 01/06/2007 |
| 2008-2009 | 458.1 | 26.930 | 29/11/2008 | 0.000 | Dry Bed | 01/06/2008 |
| 2009-2010 | 39.26 | 26.290 | 18/12/2009 | 0.000 | Dry Bed | 01/06/2009 |
| 2010-2011 | 203.3 | 26.750 | 07/12/2010 | 0.000 | Dry Bed | 01/06/2010 |
| 2011-2012 | 34.98 | 26.250 | 03/01/2012 | 0.000 | Dry Bed | 01/06/2011 |
| 2012-2013 | 22.32 | 26.210 | 06/12/2012 | 0.000 | Dry Bed | 01/06/2012 |
| 2013-2014 | 4.848 | 25.900 | 16/09/2013 | 0.000 | Dry Bed | 01/06/2013 |
| 2014-2015 | 6.418 | 25.860 | 15/11/2014 | 0.000 | Dry Bed | 01/06/2014 |

Q : Observed / Computed Discharge
WL : Corresponding Water Level(m.s.l)

## Stage-Discharge Data for the period 2015 - 2016

**Station Name : Chengalpet ( CQ000C1)** **Division : Hydrology Division, Chennai**

**Local River : Palar** **Sub-Division : Palar Ponnaiyar SD, Chennai**

| Day | Jun | | Jul | | Aug | | Sep | | Oct | | Nov | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | W.L | Q | W.L | Q | W.L | Q | W.L | Q | W.L | Q | W.L | Q |
| 1 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 2 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 3 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 4 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 5 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 6 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 7 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 8 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 9 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 10 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 11 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 25.580 | 6.282 |
| 12 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 25.720 | 8.553 |
| 13 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 25.850 | 12.11 |
| 14 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 26.850 | 240.6 |
| 15 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 26.750 | 194.9 |
| 16 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 27.600 | 702.7 |
| 17 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 27.700 | 943.3 |
| 18 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 27.400 | 644.4 |
| 19 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 27.300 | 370.7 |
| 20 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 27.280 | 392.5 |
| 21 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 27.220 | 341.3 |
| 22 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 27.100 | 268.4 |
| 23 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 26.900 | 248.3 |
| 24 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 27.400 | 639.2 |
| 25 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 27.700 | 883.6 |
| 26 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 27.600 | 840.4 |
| 27 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 27.500 | 680.3 |
| 28 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 27.300 | 360.0 |
| 29 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 27.250 | 352.2 |
| 30 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 27.200 | 310.4 |
| 31 | | | | 0.000 | | 0.000 | | | | 0.000 | | |
| **Ten-Daily Mean** | | | | | | | | | | | | |
| I Ten-Daily | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| II Ten-Daily | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 26.803 | 351.6 |
| III Ten-Daily | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 27.317 | 492.4 |
| **Monthly** | | | | | | | | | | | | |
| Min. | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 25.580 | 0.000 |
| Max. | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 27.700 | 943.3 |
| Mean | | 0 | | 0 | | 0 | | 0 | | 0 | 27.060 | 281.3 |

**Annual Runoff in MCM = 1945** **Annual Runoff in mm = 120**

**Peak Observed Discharge = 2657 cumecs on 03/12/2015** **Corres. Water Level :28.2 m**

**Lowest Observed Discharge = 0.000 cumecs on 01/06/2015**

Q: Observed/Computed Discharge in cumecs

WL:Corresponding Mean Water Level(m.s.l) in m

*:Computed Discharge

#:Discarded Discharge (values changed as per rating curve)

*Note:Missing values ignored while arriving at Annual Runoff*

## Stage-Discharge Data for the period 2015 - 2016

**Station Name : Chengalpet ( CQ000C1)** **Division : Hydrology Division, Chennai**

**Local River : Palar** **Sub-Division : Palar Ponnaiyar SD, Chennai**

| Day | Dec | | Jan | | Feb | | Mar | | Apr | | May | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | W.L | Q | WL | Q | WL | Q | WL | Q | WL | Q | WL | Q |
| 1 | 27.400 | 672.0 | 26.270 | 18.19 | 25.580 | 0.880 | 25.340 | 0.000 | 25.250 | 0.000 | | 0.000 |
| 2 | 28.100 | 2370 | 26.260 | 17.30 | 25.570 | 0.941 | 25.330 | 0.000 | 25.250 | 0.000 | | 0.000 |
| 3 | 28.200 | 2657 | 26.250 | 16.60 * | 25.560 | 0.857 | 25.320 | 0.000 | 25.250 | 0.000 | | 0.000 |
| 4 | 27.900 | 1110 | 26.240 | 16.71 | 25.550 | 0.679 | 25.320 | 0.000 | 25.250 | 0.000 | | 0.000 |
| 5 | 27.600 | 992.9 | 26.230 | 11.43 | 25.540 | 0.662 | 25.310 | 0.000 | 25.250 | 0.000 | | 0.000 |
| 6 | 27.700 | 938.9 | 26.210 | 10.36 | 25.530 | 0.534 | 25.300 | 0.000 | 25.250 | 0.000 | | 0.000 |
| 7 | 27.600 | 749.7 | 26.210 | 10.51 | 25.520 | 0.515 * | 25.300 | 0.000 | 25.250 | 0.000 | | 0.000 |
| 8 | 27.500 | 682.9 | 26.170 | 9.532 | 25.510 | 0.437 | 25.300 | 0.000 | | 0.000 | | 0.000 |
| 9 | 27.400 | 661.7 | 26.140 | 6.791 | 25.500 | 0.403 | 25.290 | 0.000 | | 0.000 | | 0.000 |
| 10 | 27.300 | 383.8 | 26.110 | 6.949 * | 25.500 | 0.567 | 25.290 | 0.000 | | 0.000 | | 0.000 |
| 11 | 27.200 | 307.6 | 26.080 | 6.599 | 25.490 | 0.446 | 25.290 | 0.000 | | 0.000 | | 0.000 |
| 12 | 27.100 | 260.1 | 26.070 | 6.482 | 25.480 | 0.492 | 25.290 | 0.000 | | 0.000 | | 0.000 |
| 13 | 27.000 | 255.5 | 26.050 | 5.678 | 25.470 | 0.474 | 25.280 | 0.000 | | 0.000 | | 0.000 |
| 14 | 26.900 | 253.3 | 26.020 | 5.306 | 25.460 | 0.398 * | 25.280 | 0.000 | | 0.000 | | 0.000 |
| 15 | 26.800 | 198.3 | 25.990 | 5.154 * | 25.450 | 0.483 | 25.280 | 0.000 | | 0.000 | | 0.000 |
| 16 | 26.700 | 185.5 | 25.960 | 4.829 | 25.450 | 0.380 # | 25.270 | 0.000 | | 0.000 | | 0.000 |
| 17 | 26.650 | 209.7 | 25.940 | 4.480 * | 25.440 | 0.339 | 25.270 | 0.000 | | 0.000 | | 0.000 |
| 18 | 26.600 | 154.8 | 25.920 | 4.780 | 25.430 | 0.300 | 25.270 | 0.000 | | 0.000 | | 0.000 |
| 19 | 26.550 | 138.7 | 25.900 | 4.705 | 25.420 | 0.403 | 25.270 | 0.000 | | 0.000 | | 0.000 |
| 20 | 26.530 | 139.4 * | 25.880 | 3.732 | 25.410 | 0.287 | 25.270 | 0.000 | | 0.000 | | 0.000 |
| 21 | 26.520 | 123.8 | 25.860 | 3.343 | 25.400 | 0.296 * | 25.270 | 0.000 | | 0.000 | | 0.000 |
| 22 | 26.500 | 65.30 # | 25.840 | 2.724 | 25.390 | 0.256 | 25.270 | 0.000 | | 0.000 | | 0.000 |
| 23 | 26.470 | 47.10 | 25.820 | 2.559 | 25.380 | 0.222 | 25.260 | 0.000 | | 0.000 | | 0.000 |
| 24 | 26.450 | 52.52 * | 25.800 | 2.828 * | 25.370 | 0.233 | 25.260 | 0.000 | | 0.000 | 25.570 | 0.552 |
| 25 | 26.430 | 47.85 * | 25.780 | 2.383 | 25.370 | 0.299 | 25.260 | 0.000 | | 0.000 | 25.550 | 0.574 |
| 26 | 26.400 | 44.55 | 25.740 | 2.229 * | 25.360 | 0.294 | 25.260 | 0.000 | | 0.000 | 25.500 | 0.393 |
| 27 | 26.370 | 35.33 * | 25.720 | 2.290 | 25.360 | 0.229 | 25.260 | 0.000 | | 0.000 | 25.480 | 0.436 # |
| 28 | 26.350 | 38.40 | 25.680 | 1.849 | 25.340 | 0.207 * | 25.260 | 0.000 | | 0.000 | 25.450 | 0.000 |
| 29 | 26.330 | 33.72 | 25.640 | 1.771 | 25.340 | 0.181 | 25.260 | 0.000 | | 0.000 | 25.430 | 0.000 |
| 30 | 26.320 | 25.46 | 25.620 | 1.168 | | | 25.260 | 0.000 | | 0.000 | 25.400 | 0.000 |
| 31 | 26.300 | 21.09 | 25.600 | 1.092 * | | | 25.260 | 0.000 | | | 25.400 | 0.000 |
| **Ten-Daily Mean** | | | | | | | | | | | | |
| I Ten-Daily | 27.670 | 1122 | 26.209 | 12.44 | 25.536 | 0.648 | 25.310 | 0.000 | 25.250 | 0.000 | | 0.000 |
| II Ten-Daily | 26.803 | 210.3 | 25.981 | 5.174 | 25.450 | 0.400 | 25.277 | 0.000 | | 0.000 | | 0.000 |
| III Ten-Daily | 26.404 | 48.65 | 25.736 | 2.203 | 25.368 | 0.246 | 25.262 | 0.000 | | 0.000 | 25.472 | 0.178 |
| **Monthly** | | | | | | | | | | | | |
| Min. | 26.300 | 21.09 | 25.600 | 1.092 | 25.340 | 0.181 | 25.260 | 0.000 | 25.250 | 0.000 | 25.400 | 0.000 |
| Max. | 28.200 | 2657 | 26.270 | 18.19 | 25.580 | 0.941 | 25.340 | 0.000 | 25.250 | 0.000 | 25.570 | 0.574 |
| Mean | 26.941 | 447 | 25.968 | 6.463 | 25.454 | 0.438 | 25.282 | 0 | 25.250 | 0 | 25.472 | 0.063 |

**Peak Computed Discharge = 139.4 cumecs on 20/12/2015 Corres. Water Level :26.53 m**

**Lowest Computed Discharge = 0.207 cumecs on 28/02/2016 Corres. Water Level :25.34 m**

Q: Observed/Computed Discharge in cumecs

WL:Corresponding Mean Water Level(m.s.l) in m

*:Computed Discharge

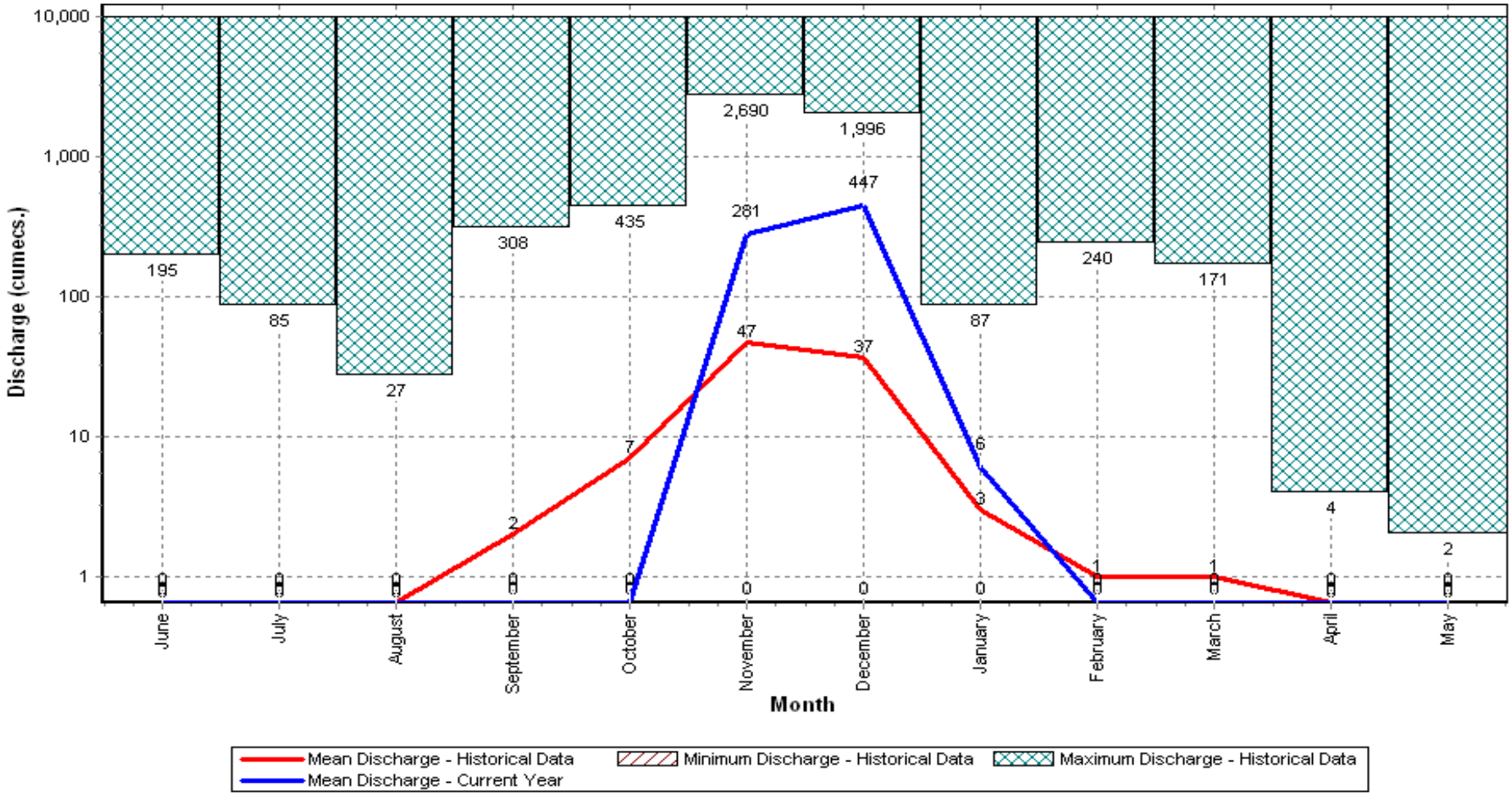
#:Discarded Discharge (values changed as per rating curve)

*Note:Missing values ignored while arriving at Annual Runoff*

**HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016**

**Station Name : Chengalpet ( CQ000C1)** | **Data considered : 1979-2016** | **Division : Hydrology Division, Chennai**

**Local River : Palar** | **Sub-Division : Palar Ponnaiyar SD, Chennai**



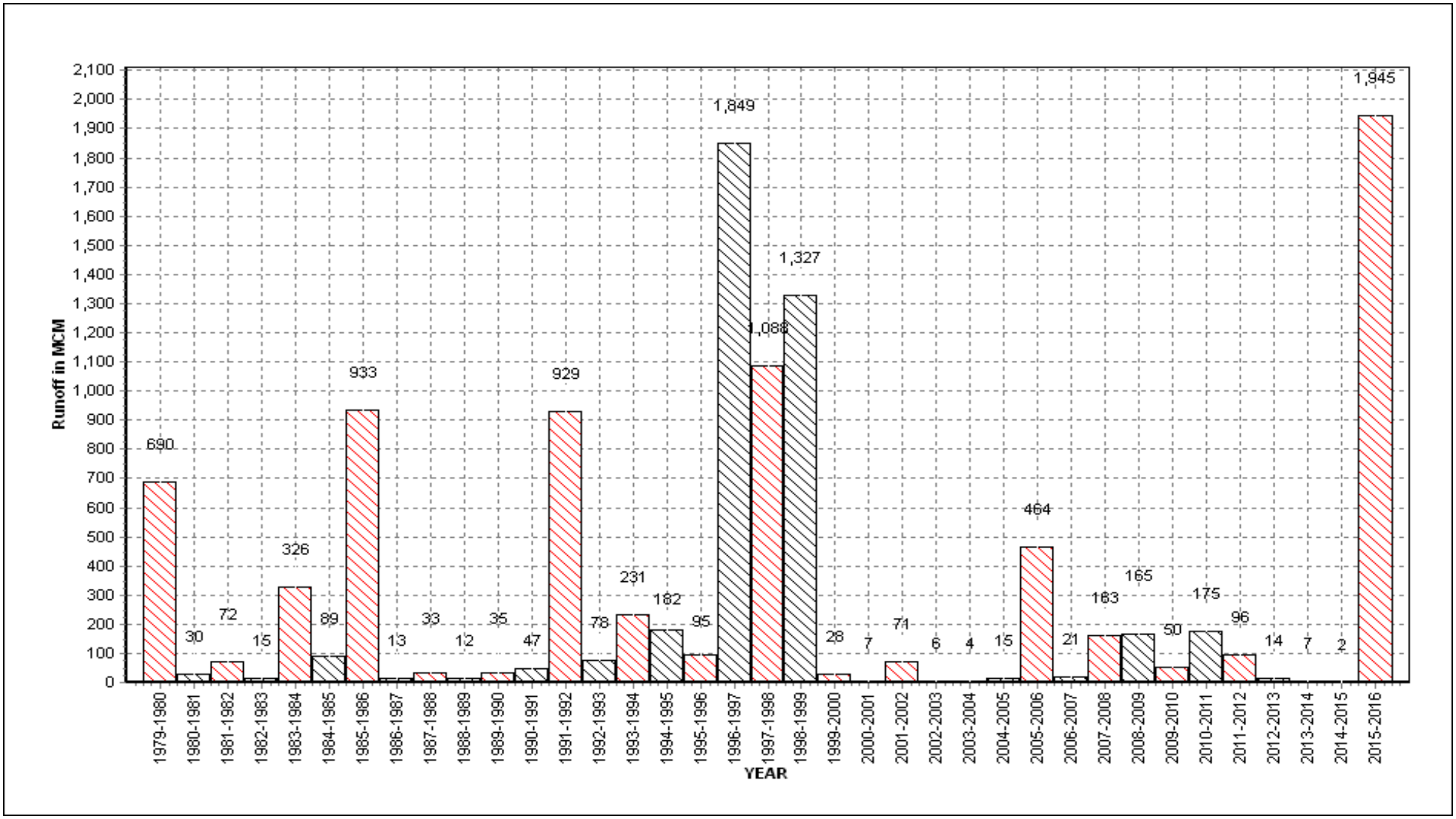
**Annual Runoff Values for the period: 1979 - 2016**

**Station Name : Chengalpet ( CQ000C1)**

**Division : Hydrology Division, Chennai**

**Local River : Palar**

**Sub-Division : Palar Ponnaiyar SD, Chennai**




*Note: Missing values have not been considered while arriving at Annual Runoff*

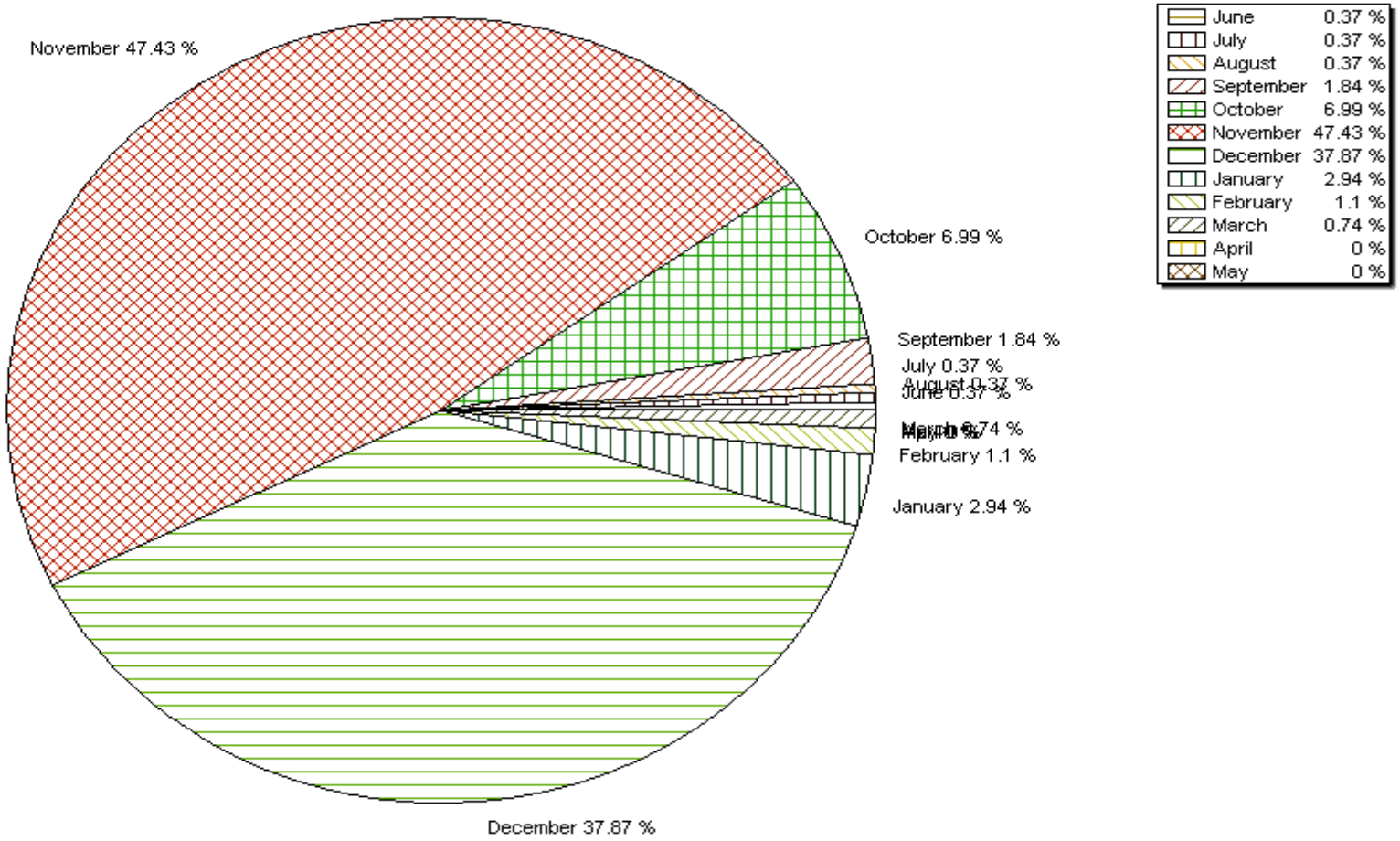
**Monthly Average Runoff based on period : 1979-2015**

**Station Name : Chengalpet ( CQ000C1)**

**Local River : Palar**

**Division : Hydrology Division, Chennai**

**Sub-Division : Palar Ponnaiyar SD, Chennai**



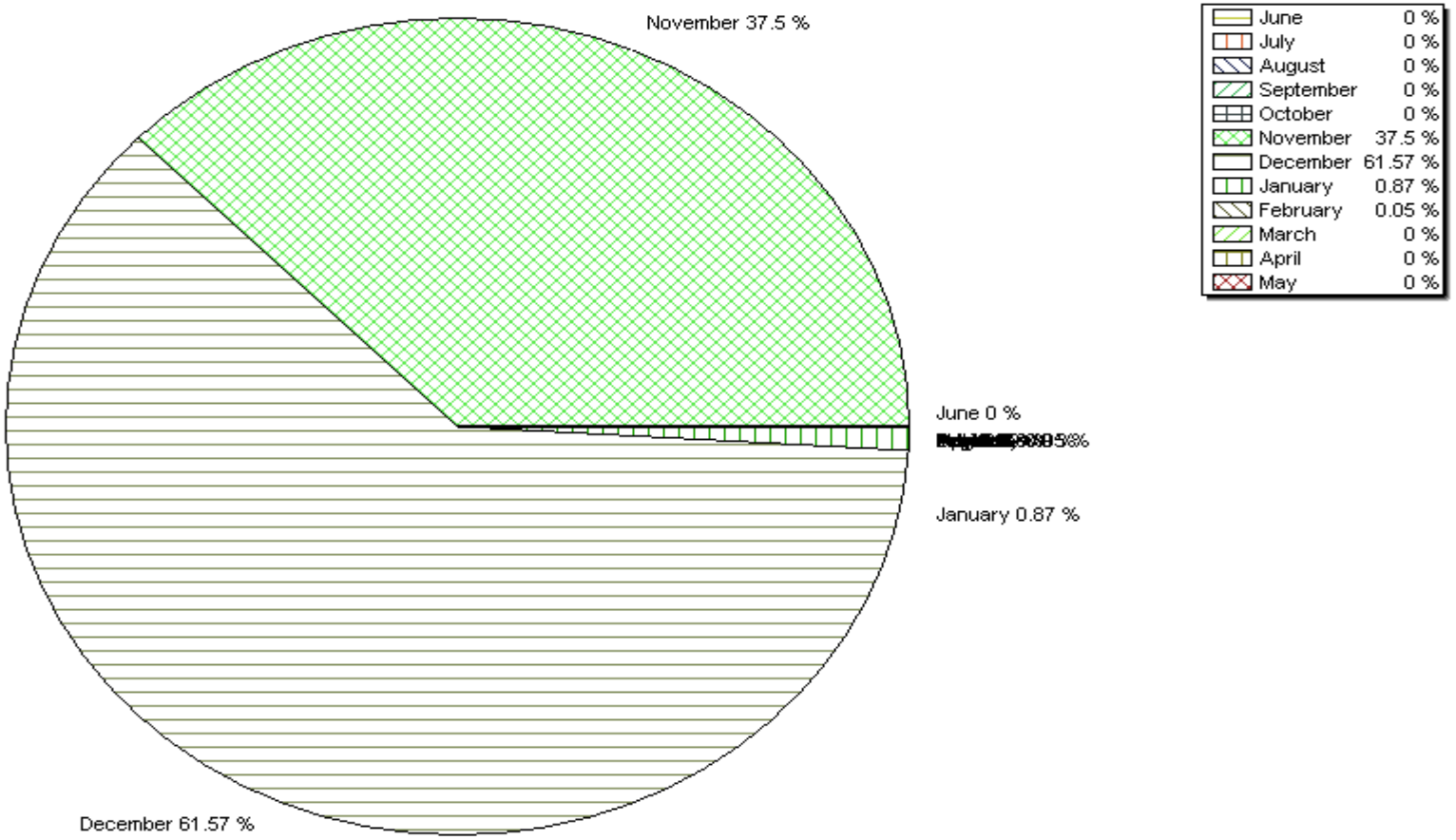
**Monthly Runoff for the Year : 2015-2016**

**Station Name : Chengalpet ( CQ000C1)**

**Division : Hydrology Division, Chennai**

**Local River : Palar**

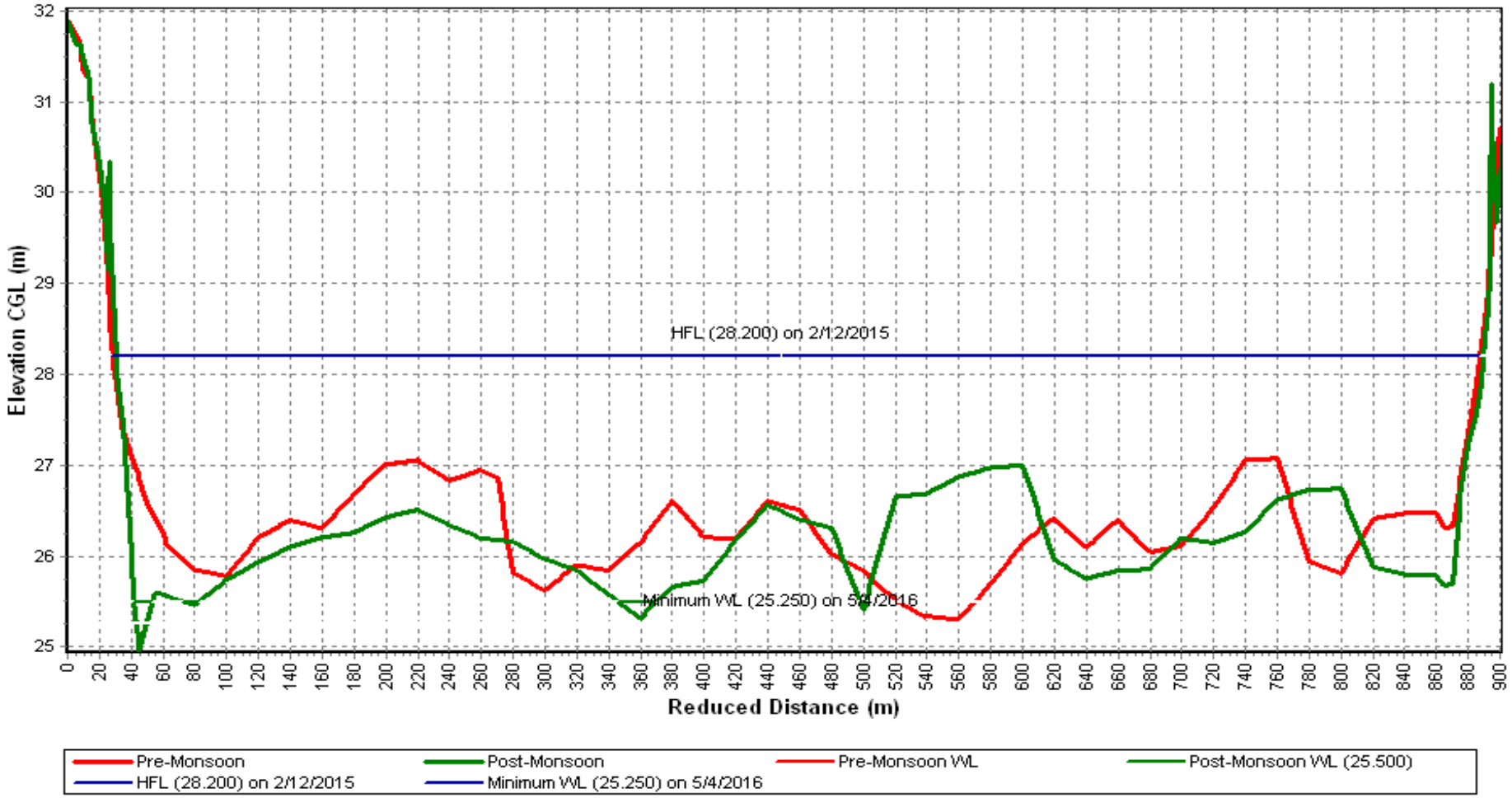
**Sub-Division : Palar Ponnaiyar SD, Chennai**



**Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2015-2016**

**Station Name : Chengalpet ( CQ000C1)** **Division : Hydrology Division, Chennai**

**Local River : Palar** **Sub-Division : Palar Ponnaiyar SD, Chennai**



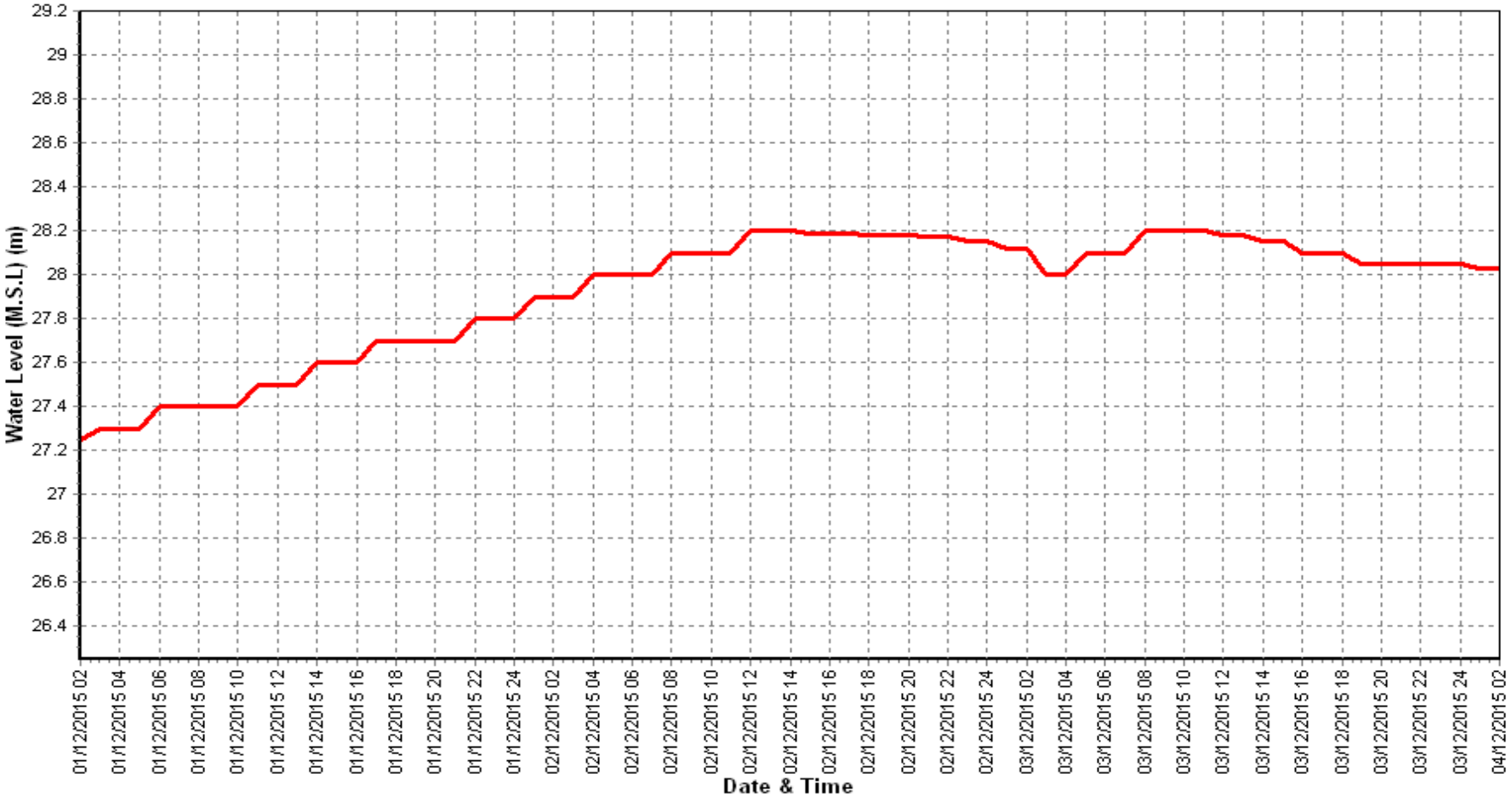
**Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2015-2016**

**Station Name : Chengalpet ( CQ000C1)**

**Local River : Palar**

**Division : Hydrology Division, Chennai**

**Sub-Division : Palar Ponnaiyar SD, Chennai**

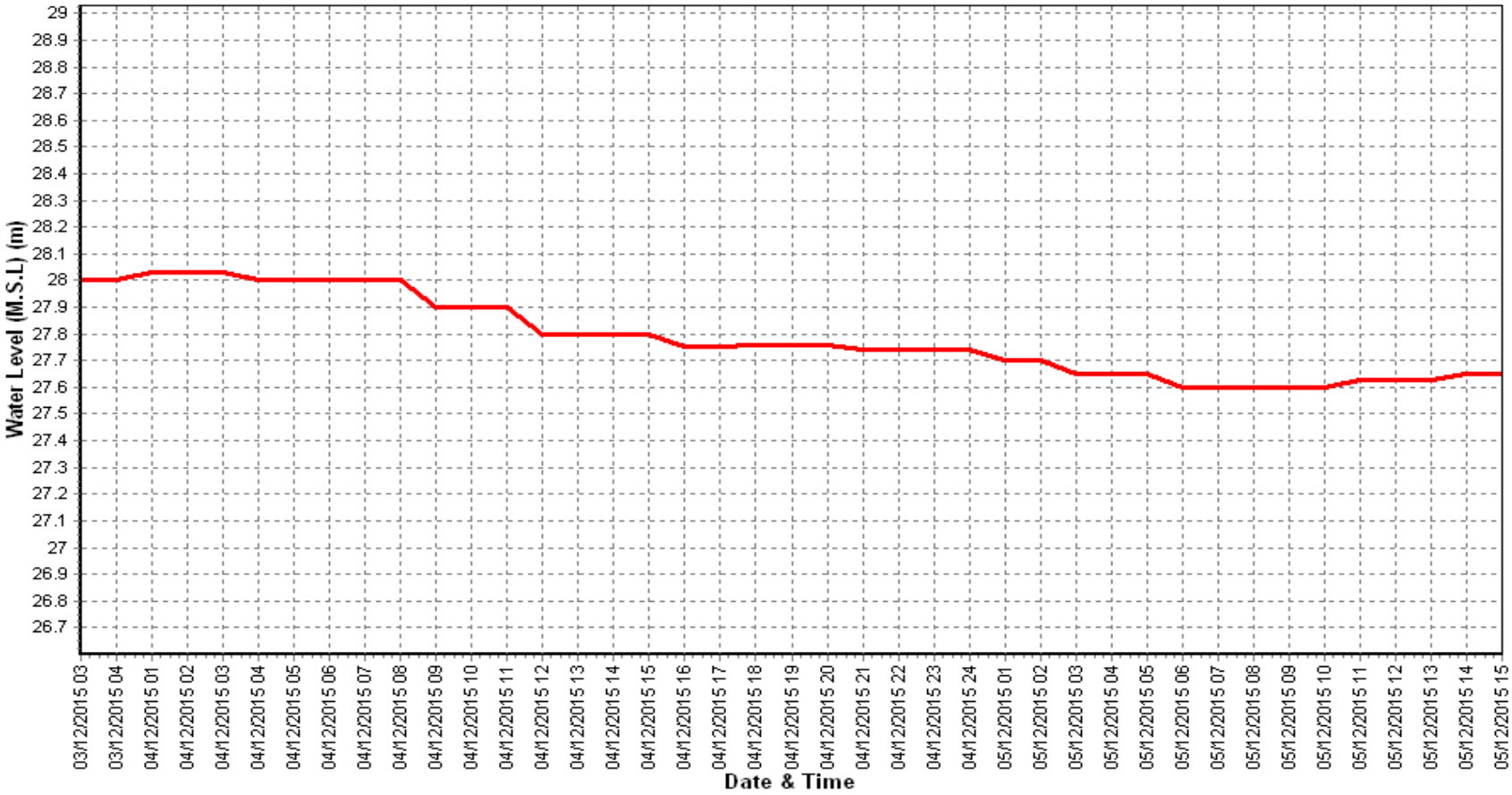



Time Span: 72 Hrs

**Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2015-2016**

**Station Name : Chengalpet ( CQ000C1)** **Division : Hydrology Division, Chennai**

**Local River : Palar** **Sub-Division : Palar Ponnaiyar SD, Chennai**




Time Span: 72 Hrs

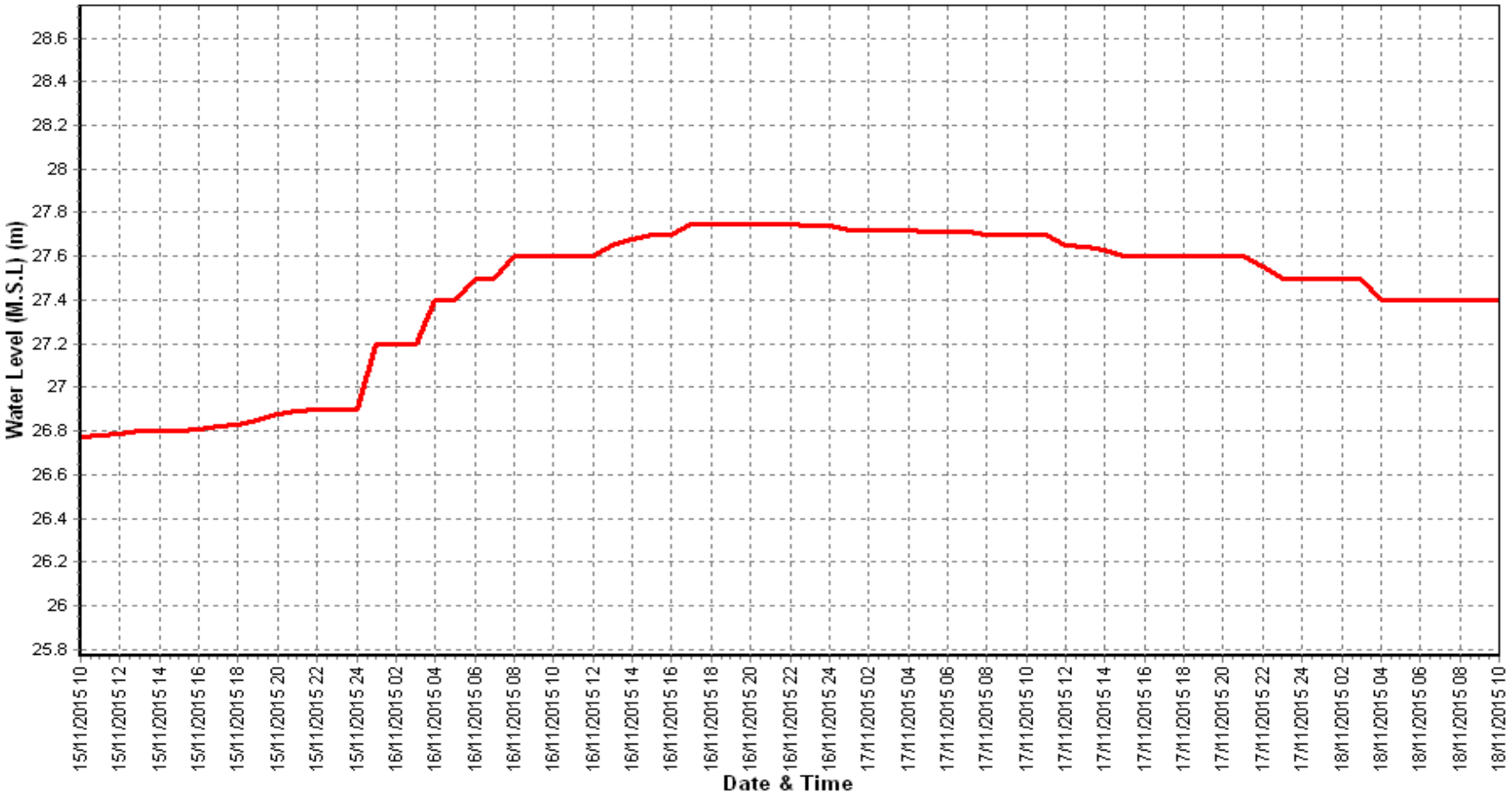
**Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2015-2016**

**Station Name : Chengalpet ( CQ000C1)**

**Local River : Palar**

**Division : Hydrology Division, Chennai**

**Sub-Division : Palar Ponnaiyar SD, Chennai**






Time Span: 72 Hrs

## HISTORY SHEET

**Water Year : 2015-2016**

| | | | | | |
|---|---|---|---|---|---|
| **Site** | : | **MAGARAL** | **Code** | : | **CQB00B4** |
| State | : | Tamil Nadu | District | | Kancheepuram |
| Basin | : | EFR B Pennar-Cauvery | Independent River | : | Palar |
| Tributary | : | Cheyyar | Sub Tributary | : | |
| Sub-Sub Tributary | : | | Local River | : | Cheyyar |
| Division | : | HD, CWC, Chennai | Sub-Division | : | PPSD, CWC, Chennai |
| Drainage Area | : | 1803 Sq. Km. | Bank | : | Left |
| Latitude | : | 12°42'34" | Longitude | : | 79°44'57" |
| **Zero of Gauge (m)** | : | 58.000 (m.s.l) | 25/11/1971 | | |
| | | Opening Date | Closing Date | | |
| Gauge | : | 25/11/1971 | | | |
| Discharge | : | 25/11/1971 | | | |
| Sediment | : | | | | |
| Water Quality | : | 01/11/1983 | | | |

**Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)**

| | Maximum | | | Minimum | | |
|---|---|---|---|---|---|---|
| **Year** | **Q (cumecs)** | **WL (m)** | **Date** | **Q (cumecs)** | **WL (m)** | **Date** |
| 1972-1973 | 1201 | 62.165 | 09/12/1972 | 0.000 | Dry Bed | 01/06/1972 |
| 1973-1974 | 14.30 | 59.715 | 17/12/1973 | 0.000 | Dry Bed | 01/06/1973 |
| 1974-1975 | 0.000 | Dry Bed | 04/10/1974 | 0.000 | Dry Bed | 01/06/1974 |
| 1975-1976 | 51.40 | 59.944 | 27/11/1975 | 0.000 | Dry Bed | 01/06/1975 |
| 1976-1977 | 428.1 | 60.840 | 26/11/1976 | 0.000 | Dry Bed | 01/06/1976 |
| 1977-1978 | 680.0 | 61.800 | 14/11/1977 | 0.000 | Dry Bed | 01/06/1977 |
| 1978-1979 | 71.20 | 60.070 | 29/12/1978 | 0.000 | Dry Bed | 01/06/1978 |
| 1979-1980 | 217.0 | 60.868 | 19/11/1979 | 0.000 | Dry Bed | 01/06/1979 |
| 1980-1981 | 0.000 | Dry Bed | 04/10/1980 | 0.000 | Dry Bed | 01/06/1980 |
| 1981-1982 | 12.50 | 59.930 | 31/10/1981 | 0.000 | Dry Bed | 01/06/1981 |
| 1982-1983 | 0.000 | Dry Bed | 04/10/1982 | 0.000 | Dry Bed | 01/06/1982 |
| 1983-1984 | 319.8 | 60.760 | 26/12/1983 | 0.000 | Dry Bed | 01/06/1983 |
| 1984-1985 | 98.60 | 60.250 | 21/07/1984 | 0.000 | Dry Bed | 01/06/1984 |
| 1985-1986 | 1596 | 62.210 | 13/11/1985 | 0.000 | Dry Bed | 01/06/1985 |
| 1986-1987 | 1.800 | 59.643 | 03/11/1986 | 0.000 | Dry Bed | 01/06/1986 |
| 1987-1988 | 4.983 | 59.665 | 26/12/1987 | 0.000 | Dry Bed | 01/06/1987 |
| 1988-1989 | 0.000 | Dry Bed | 04/10/1988 | 0.000 | Dry Bed | 01/06/1988 |
| 1989-1990 | 0.000 | Dry Bed | 04/10/1989 | 0.000 | Dry Bed | 01/06/1989 |
| 1990-1991 | 0.000 | Dry Bed | 24/09/1990 | 0.000 | Dry Bed | 01/06/1990 |

Q : Observed / Computed Discharge
WL : Corresponding Water Level(m.s.l)

**Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)**

| | Maximum | | | Minimum | | |
|---|---|---|---|---|---|---|
| **Year** | **Q (cumecs)** | **WL (m)** | **Date** | **Q (cumecs)** | **WL (m)** | **Date** |
| 1991-1992 | 799.9 | 61.722 | 18/11/1991 | 0.000 | Dry Bed | 01/06/1991 |
| 1992-1993 | 187.8 | 60.477 | 18/11/1992 | 0.000 | Dry Bed | 01/06/1992 |
| 1993-1994 | 109.5 | 60.290 | 06/12/1993 | 0.000 | Dry Bed | 01/06/1993 |
| 1994-1995 | 304.5 | 60.891 | 06/11/1994 | 0.000 | Dry Bed | 01/06/1994 |
| 1995-1996 | 11.21 | 59.905 | 25/08/1995 | 0.000 | Dry Bed | 01/06/1995 |
| 1996-1997 | 947.0 | 62.280 | 16/12/1996 | 0.000 | Dry Bed | 01/06/1996 |
| 1997-1998 | 402.0 | 60.985 | 08/12/1997 | 0.000 | Dry Bed | 01/06/1997 |
| 1998-1999 | 454.0 | 60.900 | 12/12/1998 | 0.000 | Dry Bed | 01/06/1998 |
| 1999-2000 | 4.019 | 59.610 | 29/11/1999 | 0.000 | Dry Bed | 01/06/1999 |
| 2000-2001 | 0.000 | Dry Bed | 04/10/2000 | 0.000 | Dry Bed | 01/06/2000 |
| 2001-2002 | 1.235 | 59.750 | 12/10/2001 | 0.000 | Dry Bed | 01/06/2001 |
| 2002-2003 | 0.000 | Dry Bed | 04/10/2002 | 0.000 | Dry Bed | 01/06/2002 |
| 2003-2004 | 0.000 | Dry Bed | 05/10/2003 | 0.000 | Dry Bed | 01/06/2003 |
| 2004-2005 | 0.000 | Dry Bed | 04/10/2004 | 0.000 | Dry Bed | 01/06/2004 |
| 2005-2006 | 606.6 | 60.980 | 05/12/2005 | 0.000 | Dry Bed | 01/06/2005 |
| 2006-2007 | 0.000 | Dry Bed | 01/06/2006 | 0.000 | Dry Bed | 01/06/2006 |
| 2007-2008 | 218.4 | 60.775 | 20/12/2007 | 0.000 | Dry Bed | 01/06/2007 |
| 2008-2009 | 225.7 | 60.520 | 29/11/2008 | 0.000 | Dry Bed | 01/06/2008 |
| 2009-2010 | 0.000 | Dry Bed | 01/06/2009 | 0.000 | Dry Bed | 01/06/2009 |
| 2010-2011 | 55.22 | 59.825 | 14/12/2010 | 0.000 | Dry Bed | 01/06/2010 |
| 2011-2012 | 27.40 | 59.600 | 28/11/2011 | 0.000 | Dry Bed | 01/06/2011 |
| 2012-2013 | 13.80 | 59.590 | 03/11/2012 | 0.000 | Dry Bed | 01/06/2012 |
| 2013-2014 | 0.000 | Dry Bed | 01/06/2013 | 0.000 | Dry Bed | 01/06/2013 |
| 2014-2015 | 0.000 | Dry Bed | 01/06/2014 | 0.000 | Dry Bed | 01/06/2014 |

Q : Observed / Computed Discharge
WL : Corresponding Water Level(m.s.l)

## Stage-Discharge Data for the period 2015 - 2016

**Station Name : MAGARAL ( CQB00B4)** **Division : HD, CWC, Chennai**

**Local River : Cheyyar** **Sub-Division : PPSD, CWC, Chennai**

| Day | Jun | | Jul | | Aug | | Sep | | Oct | | Nov | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | W.L | Q | W.L | Q | W.L | Q | W.L | Q | W.L | Q | W.L | Q |
| 1 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 2 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 3 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 4 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 5 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 6 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 7 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 8 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 9 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 10 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 11 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 12 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 13 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 14 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 59.730 | 186.0 # |
| 15 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 59.440 | 165.2 # |
| 16 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 59.445 | 176.0 |
| 17 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 59.010 | 136.4 # |
| 18 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 58.150 | 87.50 |
| 19 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 57.940 | 75.26 |
| 20 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 57.920 | 61.79 |
| 21 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 58.000 | 92.24 |
| 22 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 58.000 | 74.23 |
| 23 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 57.993 | 91.71 |
| 24 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 58.688 | 118.2 |
| 25 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 58.605 | 115.4 |
| 26 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 58.478 | 77.17 |
| 27 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 58.295 | 98.76 |
| 28 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 57.560 | 56.91 # |
| 29 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 57.265 | 44.37 # |
| 30 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 57.465 | 52.73 # |
| 31 | | | | 0.000 | | 0.000 | | | | 0.000 | | |
| Ten-Daily Mean | | | | | | | | | | | | |
| I Ten-Daily | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| II Ten-Daily | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 58.805 | 88.81 |
| III Ten-Daily | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 58.035 | 82.16 |
| Monthly | | | | | | | | | | | | |
| Min. | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 57.265 | 0.000 |
| Max. | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 59.730 | 186.0 |
| Mean | | 0 | | 0 | | 0 | | 0 | | 0 | 58.352 | 56.99 |

**Annual Runoff in MCM = 497 Annual Runoff in mm = 276**

**Peak Observed Discharge = 186.0 cumecs on 14/11/2015 Corres. Water Level :59.73 m**

**Lowest Observed Discharge = 0.000 cumecs on 01/06/2015**

Q: Observed/Computed Discharge in cumecs

WL:Corresponding Mean Water Level(m.s.l) in m

*:Computed Discharge

#:Discarded Discharge (values changed as per rating curve)

*Note:Missing values ignored while arriving at Annual Runoff*

## Stage-Discharge Data for the period 2015 - 2016

**Station Name : MAGARAL ( CQB00B4)** **Division : HD, CWC, Chennai**

**Local River : Cheyyar** **Sub-Division : PPSD, CWC, Chennai**

| Day | Dec | | Jan | | Feb | | Mar | | Apr | | May | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | W.L | Q | WL | Q | WL | Q | WL | Q | WL | Q | WL | Q |
| 1 | 57.580 | 160.8 # | 57.195 | 0.649 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 2 | 58.400 | 632.4 * | 57.200 | 0.936 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 3 | 58.870 | 1037 * | 57.195 | 0.794 * | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 4 | 57.930 | 325.2 * | 57.185 | 0.593 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 5 | 57.660 | 193.4 * | 57.180 | 0.601 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 6 | 57.760 | 238.4 * | 57.180 | 0.493 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 7 | 58.000 | 364.7 * | 57.175 | 0.414 # | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 8 | 57.720 | 219.8 * | 57.165 | 0.265 # | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 9 | 57.560 | 153.0 # | 57.170 | 0.320 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 10 | 57.485 | 118.1 | 57.170 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 11 | 57.410 | 97.57 | 57.170 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 12 | 57.375 | 105.9 | 57.170 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 13 | 57.330 | 77.68 * | 57.165 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 14 | 57.270 | 62.21 | 57.165 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 15 | 57.260 | 56.11 | 57.165 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 16 | 57.230 | 18.67 | 57.165 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 17 | 57.180 | 17.46 | 57.160 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 18 | 57.065 | 9.630 | 57.160 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 19 | 56.875 | 5.348 | 57.160 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 20 | 56.990 | 8.521 * | 57.155 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 21 | 57.175 | 15.79 # | 57.155 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 22 | 57.140 | 14.25 # | 57.150 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 23 | 57.350 | 24.62 # | 57.145 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 24 | 57.300 | 21.90 * | 57.160 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 25 | 57.255 | 19.59 * | 57.170 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 26 | 57.220 | 17.88 # | 57.170 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 27 | 57.290 | 21.38 * | 57.165 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 28 | 57.255 | 2.526 # | 57.160 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 29 | 57.200 | 1.069 | 57.150 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 30 | 57.200 | 1.001 | 57.145 | 0.000 | | | | 0.000 | | 0.000 | | 0.000 |
| 31 | 57.195 | 0.632 | 57.140 | 0.000 | | | | 0.000 | | | | 0.000 |
| Ten-Daily Mean | | | | | | | | | | | | |
| I Ten-Daily | 57.897 | 344.3 | 57.181 | 0.506 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| II Ten-Daily | 57.198 | 45.91 | 57.164 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| III Ten-Daily | 57.235 | 12.79 | 57.155 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| Monthly | | | | | | | | | | | | |
| Min. | 56.875 | 0.632 | 57.140 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| Max. | 58.870 | 1037 | 57.200 | 0.936 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| Mean | 57.436 | 130.4 | 57.166 | 0.163 | | 0 | | 0 | | 0 | | 0 |

**Peak Computed Discharge = 1037 cumecs on 03/12/2015 Corres. Water Level :58.87 m**

**Lowest Computed Discharge = 0.794 cumecs on 03/01/2016 Corres. Water Level :57.195 m**

Q: Observed/Computed Discharge in cumecs

WL:Corresponding Mean Water Level(m.s.l) in m

*:Computed Discharge

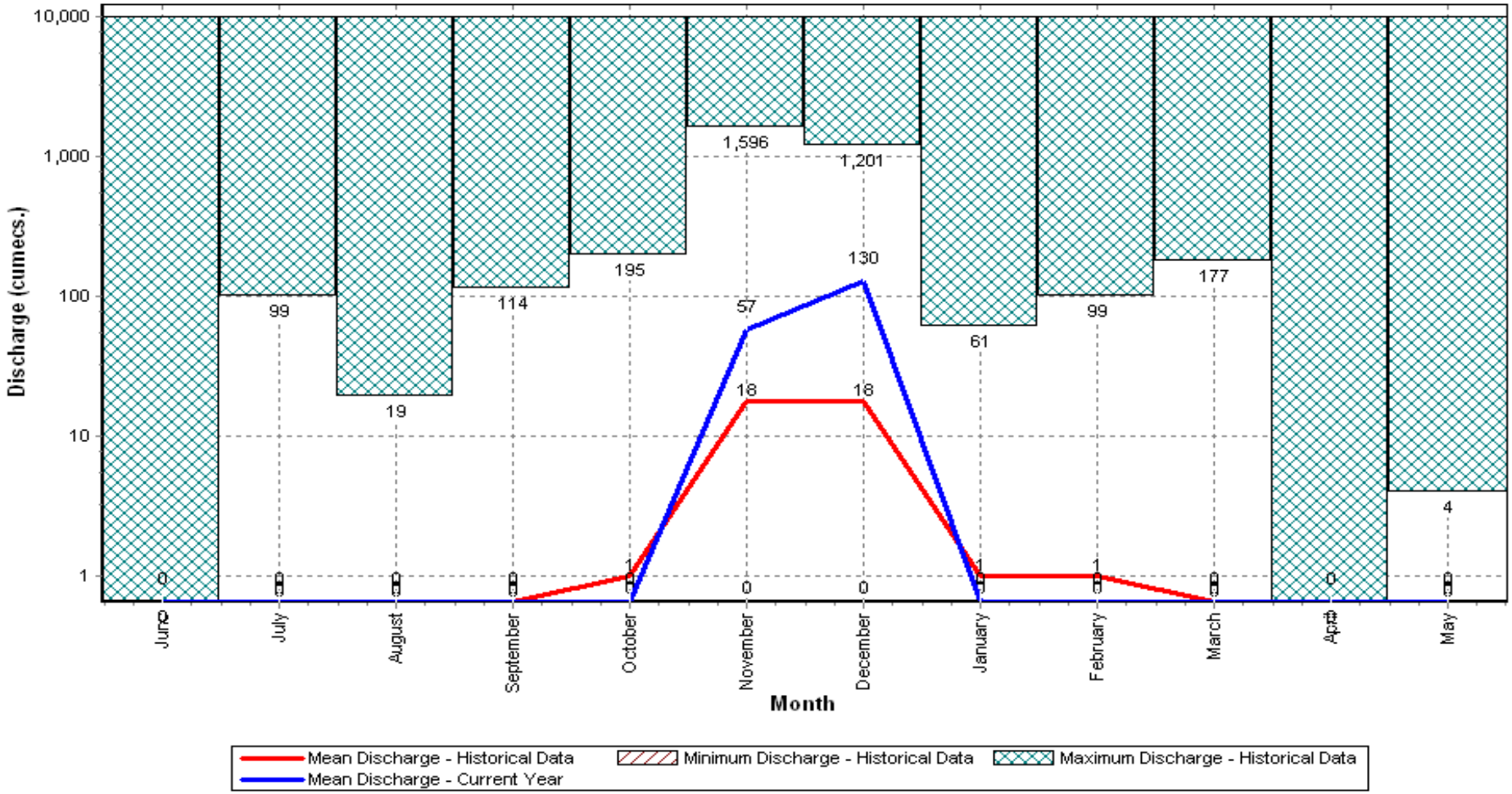
#:Discarded Discharge (values changed as per rating curve)

*Note:Missing values ignored while arriving at Annual Runoff*

**HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016**

**Station Name : MAGARAL ( CQB00B4)** | **Data considered : 1972-2016** | **Division : HD, CWC, Chennai**

**Local River : Cheyyar** | **Sub-Division : PPSD, CWC, Chennai**



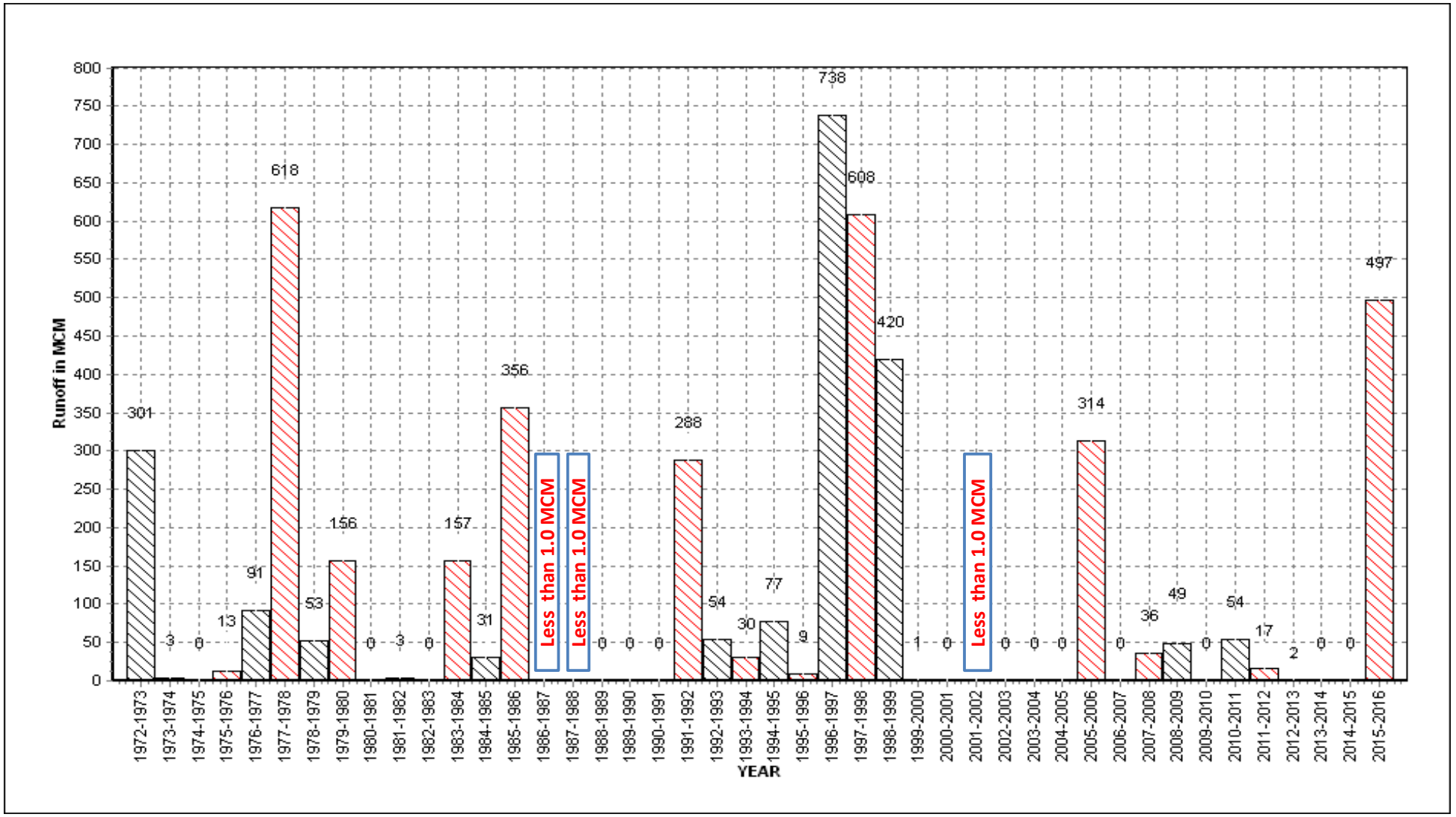
**Annual Runoff Values for the period: 1972 - 2016**

**Station Name : MAGARAL ( CQB00B4)**

**Local River : Cheyyar**

**Division : HD, CWC, Chennai**

**Sub-Division : PPSD, CWC, Chennai**




*Note: Missing values have not been considered while arriving at Annual Runoff*

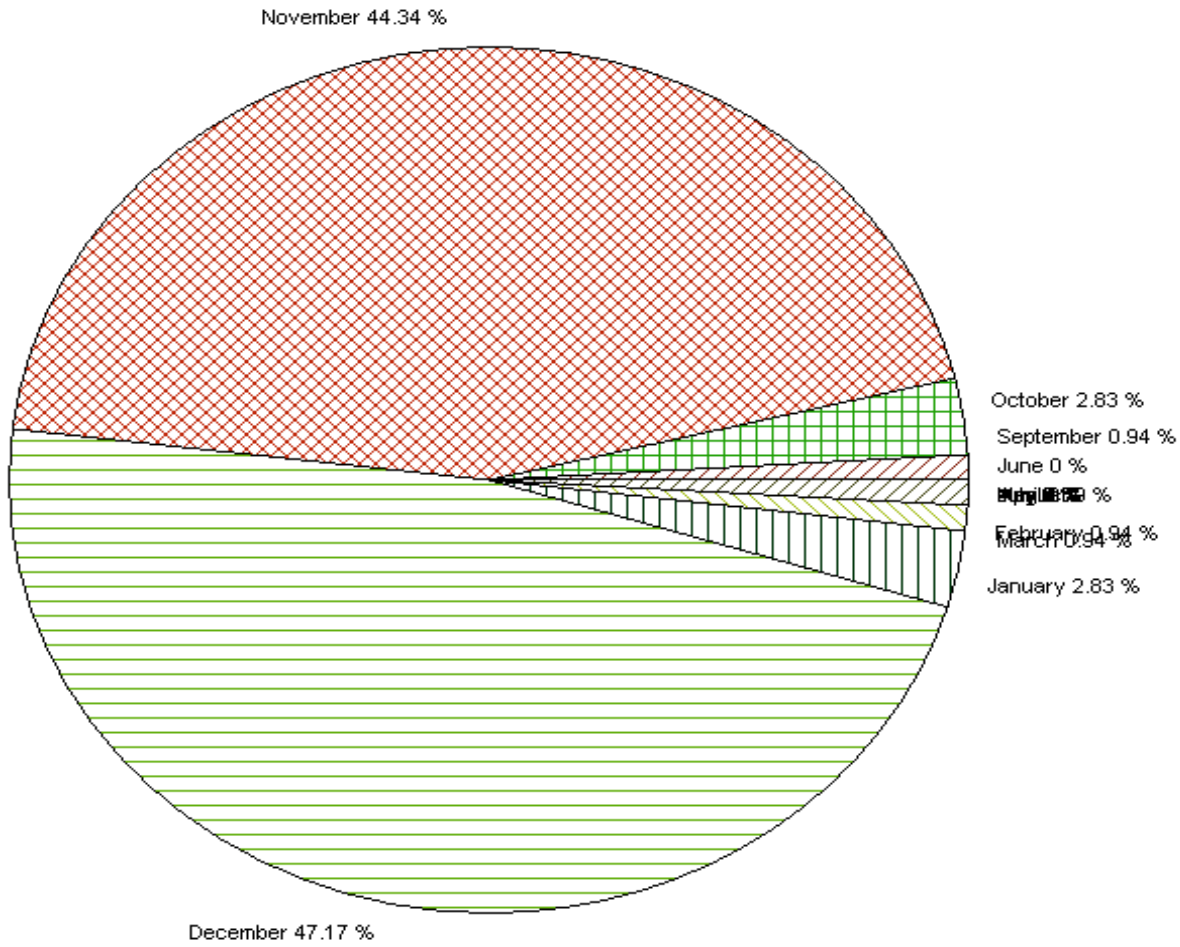
**Monthly Average Runoff based on period : 1972-2015**

**Station Name : MAGARAL ( CQB00B4)**

**Local River : Cheyyar**

**Division : HD, CWC, Chennai**

**Sub-Division : PPSD, CWC, Chennai**



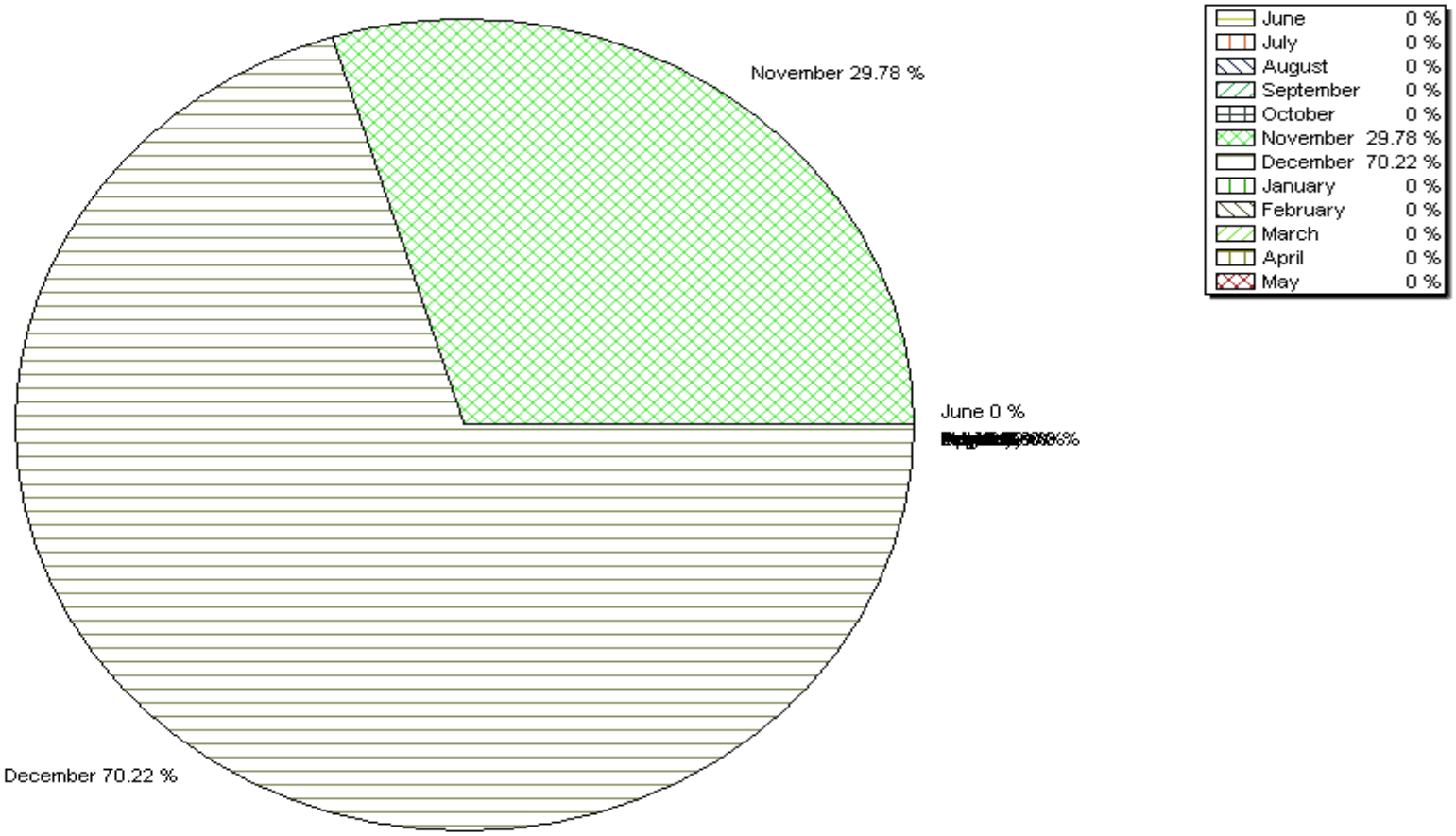
**Monthly Runoff for the Year : 2015-2016**

**Station Name : MAGARAL ( CQB00B4)**

**Local River : Cheyyar**

**Division : HD, CWC, Chennai**

**Sub-Division : PPSD, CWC, Chennai**



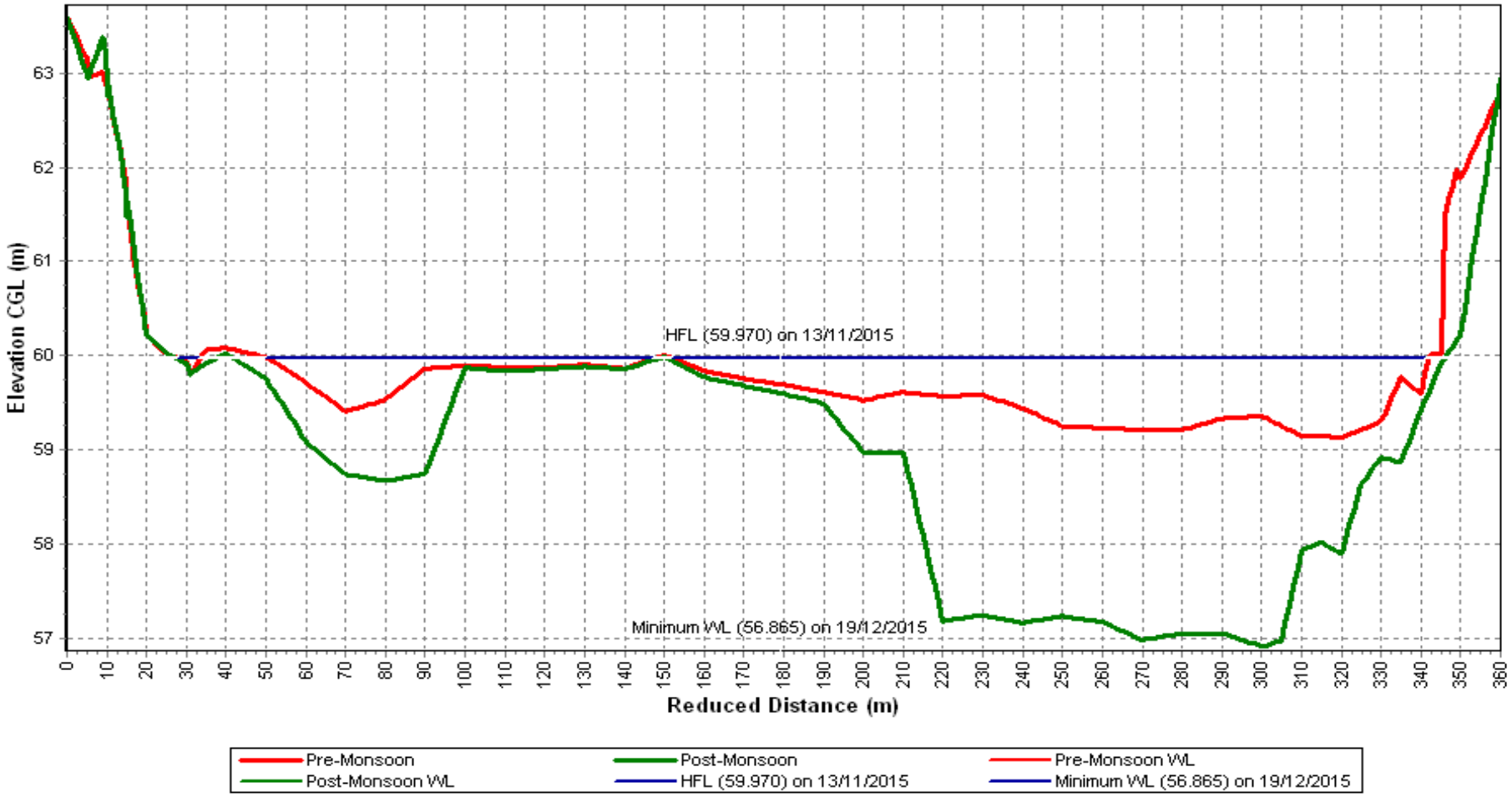
**Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2015-2016**

**Station Name : MAGARAL ( CQB00B4)**

**Local River : Cheyyar**

**Division : HD, CWC, Chennai**

**Sub-Division : PPSD, CWC, Chennai**



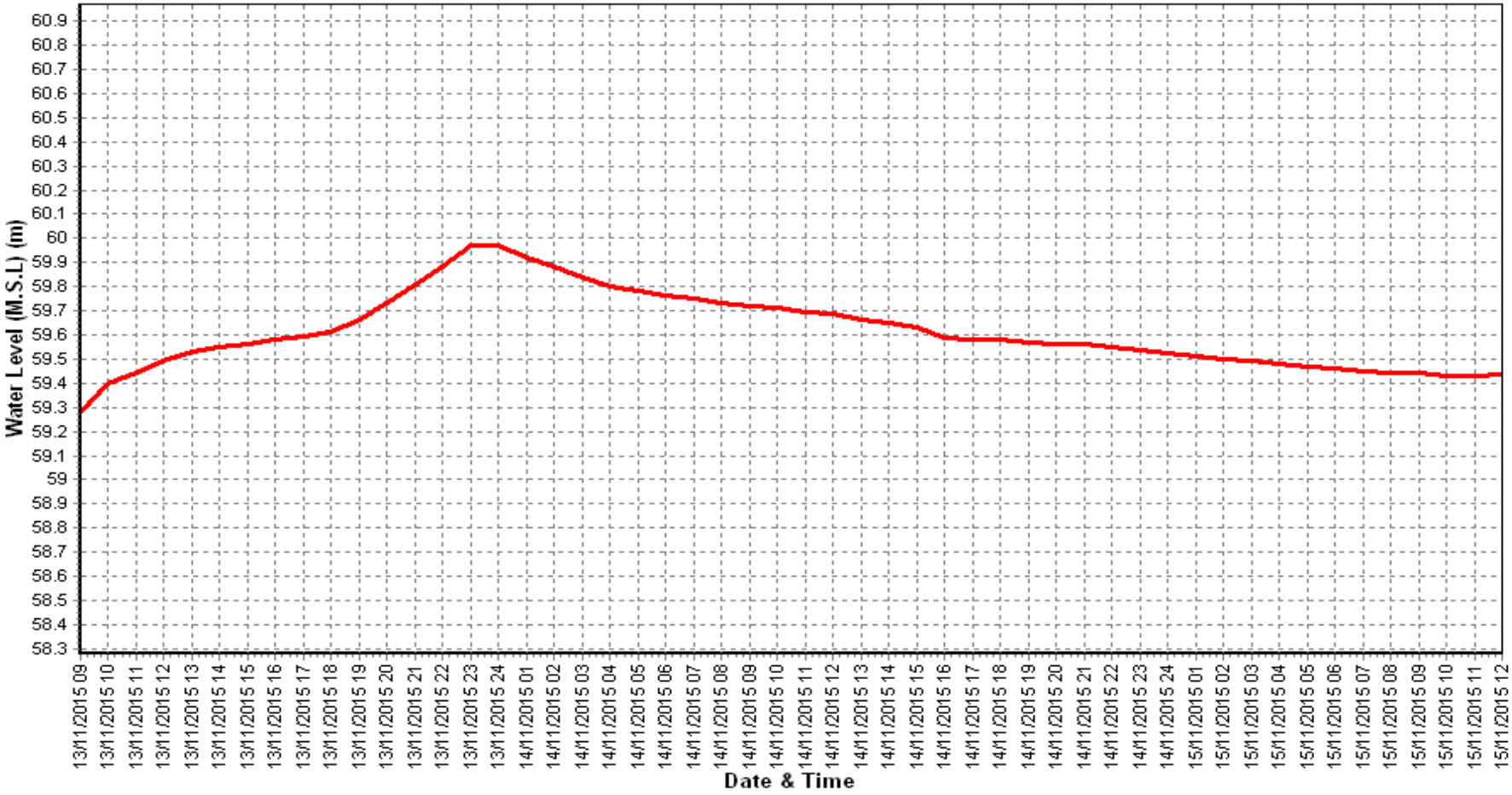
**Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2015-2016**

**Station Name : MAGARAL ( CQB00B4)**

**Local River : Cheyyar**

**Division : HD, CWC, Chennai**

**Sub-Division : PPSD, CWC, Chennai**




Time Span: 72 Hrs

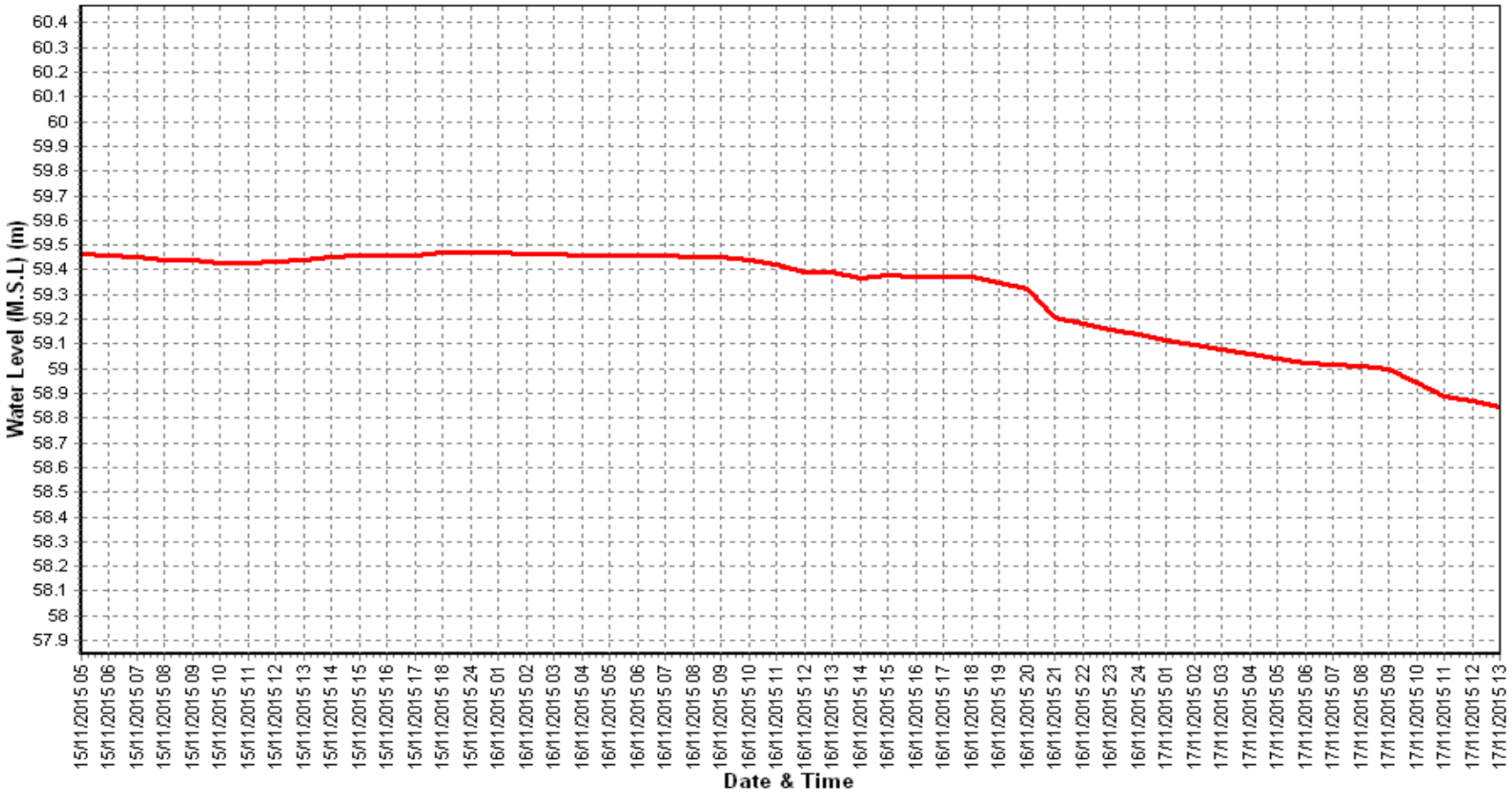
**Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2015-2016**

**Station Name : MAGARAL ( CQB00B4)**

**Local River : Cheyyar**

**Division : HD, CWC, Chennai**

**Sub-Division : PPSD, CWC, Chennai**

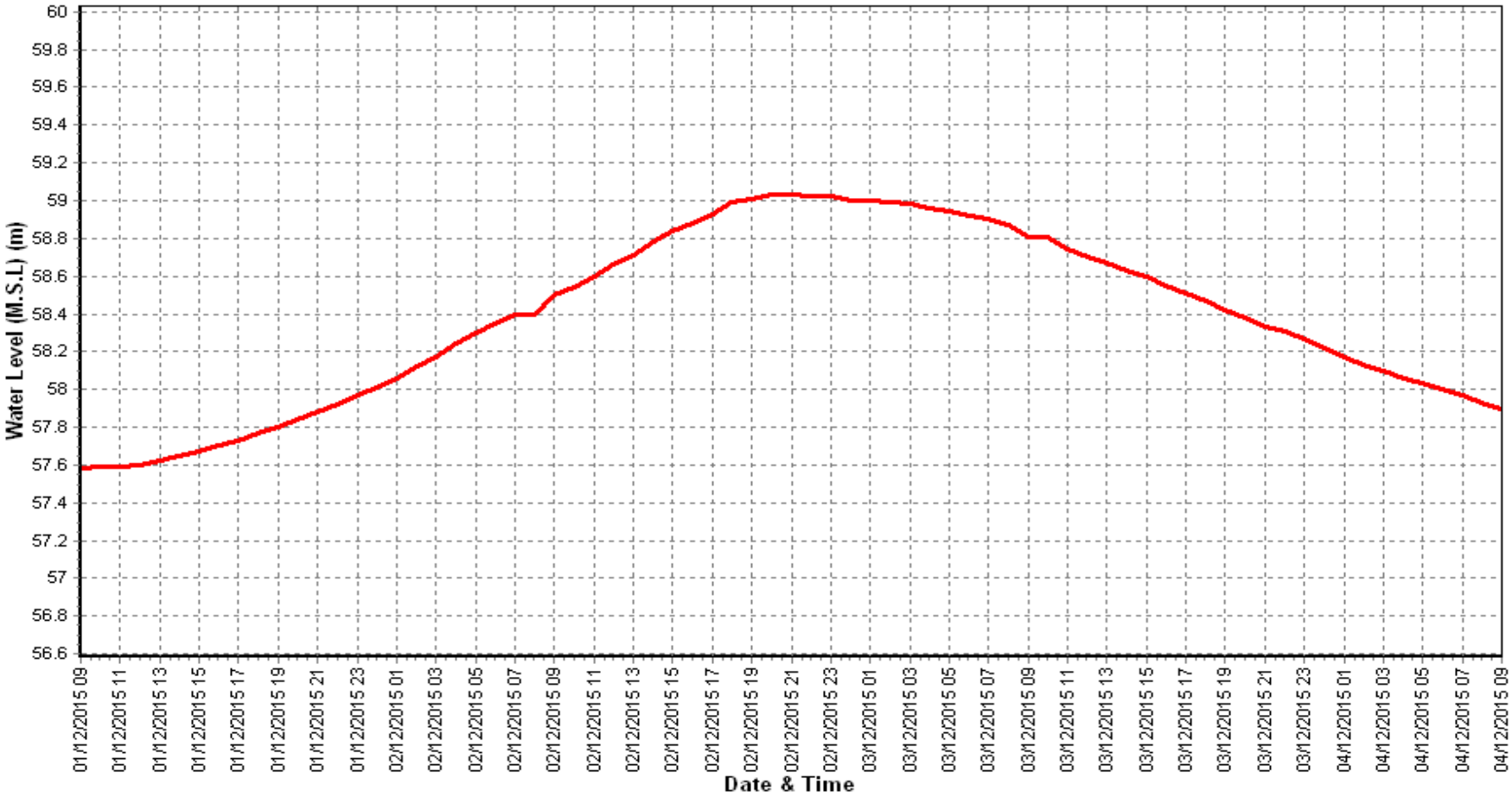



Time Span: 72 Hrs

**Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2015-2016**

**Station Name : MAGARAL ( CQB00B4)** **Division : HD, CWC, Chennai**

**Local River : Cheyyar** **Sub-Division : PPSD, CWC, Chennai**




Time Span: 72 Hrs

## HISTORY SHEET

**Water Year : 2015-2016**

| | | | | | |
|---|---|---|---|---|---|
| **Site** | **: Arcot** | | **Code** | **: CQ000I7** | |
| State | : Tamil Nadu | | District | Vellore | |
| Basin | : EFR B Pennar-Cauvery | | Independent River | : Palar | |
| Tributary | : - | | Sub Tributary | : | |
| Sub-Sub Tributary | : | | Local River | : Palar | |
| Division | : Hydrology Division, Chennai | | Sub-Division | : Palar Ponnaiyar SD, Chennai | |
| Drainage Area | : 10174 Sq. Km. | | Bank | : Right | |
| Latitude | : 12°54'50" | | Longitude | : 79°20'00" | |
| **Zero of Gauge (m)** | : 159.000 (m.s.l)<br>156.810 (m.s.l) | | 20/09/1979<br>01/06/2008 | - 31/05/2008 | |
| | Opening Date | | Closing Date | | |
| Gauge | : 20/09/1979 | | | | |
| Discharge | : 20/09/1979 | | | | |
| Sediment | : | | | | |
| Water Quality | : 01/06/1988 | | | | |

**Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)**

| | Maximum | | | Minimum | | |
|---|---|---|---|---|---|---|
| **Year** | **Q (cumecs)** | **WL (m)** | **Date** | **Q (cumecs)** | **WL (m)** | **Date** |
| 1980-1981 | 0.000 | Dry Bed | 01/06/1980 | 0.000 | Dry Bed | 01/06/1980 |
| 1981-1982 | 528.2 | 160.665 | 13/09/1981 | 0.000 | Dry Bed | 01/06/1981 |
| 1982-1983 | 0.000 | Dry Bed | 01/06/1982 | 0.000 | Dry Bed | 01/06/1982 |
| 1983-1984 | 183.3 | 160.590 | 12/09/1983 | 0.000 | Dry Bed | 01/06/1983 |
| 1984-1985 | 31.80 | 160.300 | 10/10/1984 | 0.000 | Dry Bed | 01/06/1984 |
| 1985-1986 | 105.0 | 160.515 | 14/11/1985 | 0.000 | Dry Bed | 01/06/1985 |
| 1986-1987 | 0.000 | Dry Bed | 01/06/1986 | 0.000 | Dry Bed | 01/06/1986 |
| 1987-1988 | 0.000 | Dry Bed | 01/06/1987 | 0.000 | Dry Bed | 01/06/1987 |
| 1988-1989 | 103.8 | 160.450 | 27/09/1988 | 0.000 | Dry Bed | 01/06/1988 |
| 1989-1990 | 0.000 | Dry Bed | 01/06/1989 | 0.000 | Dry Bed | 01/06/1989 |
| 1990-1991 | 0.000 | Dry Bed | 01/06/1990 | 0.000 | Dry Bed | 01/06/1990 |
| 1991-1992 | 1229 | 161.047 | 18/11/1991 | 0.000 | Dry Bed | 01/06/1991 |
| 1992-1993 | 0.715 | 159.755 | 24/11/1992 | 0.000 | Dry Bed | 01/06/1992 |
| 1993-1994 | 150.9 | 160.250 | 07/12/1993 | 0.000 | Dry Bed | 01/06/1993 |
| 1994-1995 | 10.54 | 159.760 | 07/11/1994 | 0.000 | Dry Bed | 01/06/1994 |
| 1995-1996 | 22.39 | 159.830 | 22/08/1995 | 0.000 | Dry Bed | 01/06/1995 |
| 1996-1997 | 374.0 | 160.540 | 16/12/1996 | 0.000 | Dry Bed | 01/06/1996 |
| 1997-1998 | 37.40 | 159.890 | 07/12/1997 | 0.000 | Dry Bed | 01/06/1997 |

Q : Observed / Computed Discharge
WL : Corresponding Water Level(m.s.l)

**Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)**

| | Maximum | | | Minimum | | |
|---|---|---|---|---|---|---|
| **Year** | **Q (cumecs)** | **WL (m)** | **Date** | **Q (cumecs)** | **WL (m)** | **Date** |
| 1998-1999 | 51.20 | 160.340 | 08/11/1998 | 0.000 | Dry Bed | 01/06/1998 |
| 1999-2000 | 0.000 | Dry Bed | 01/06/1999 | 0.000 | Dry Bed | 01/06/1999 |
| 2000-2001 | 0.000 | Dry Bed | 01/06/2000 | 0.000 | Dry Bed | 01/06/2000 |
| 2001-2002 | 32.81 | 159.950 | 14/10/2001 | 0.000 | Dry Bed | 01/06/2001 |
| 2002-2003 | 0.000 | Dry Bed | 01/06/2002 | 0.000 | Dry Bed | 01/06/2002 |
| 2003-2004 | 0.000 | Dry Bed | 01/06/2003 | 0.000 | Dry Bed | 01/06/2003 |
| 2004-2005 | 0.000 | Dry Bed | 01/06/2004 | 0.000 | Dry Bed | 01/06/2004 |
| 2005-2006 | 139.9 | 160.120 | 26/10/2005 | 0.000 | Dry Bed | 01/06/2005 |
| 2006-2007 | 0.000 | Dry Bed | 01/06/2006 | 0.000 | Dry Bed | 01/06/2006 |
| 2007-2008 | 9.913 | 159.360 | 21/12/2007 | 0.000 | Dry Bed | 01/06/2007 |
| 2008-2009 | 1.650 | 159.190 | 30/11/2008 | 0.000 | Dry Bed | 01/06/2008 |
| 2009-2010 | 0.000 | Dry Bed | 01/06/2009 | 0.000 | Dry Bed | 01/06/2009 |
| 2010-2011 | 6.460 | 159.240 | 02/12/2010 | 0.000 | Dry Bed | 01/06/2010 |
| 2011-2012 | 0.000 | Dry Bed | 01/06/2011 | 0.000 | Dry Bed | 01/06/2011 |
| 2012-2013 | 0.000 | Dry Bed | 01/06/2012 | 0.000 | Dry Bed | 01/06/2012 |
| 2013-2014 | 0.000 | Dry Bed | 01/06/2013 | 0.000 | Dry Bed | 01/06/2013 |
| 2014-2015 | 0.000 | Dry Bed | 01/06/2014 | 0.000 | Dry Bed | 01/06/2014 |

Q : Observed / Computed Discharge
WL : Corresponding Water Level(m.s.l)

## Stage-Discharge Data for the period 2015 - 2016

**Station Name : Arcot ( CQ000I7)** **Division : Hydrology Division, Chennai**

**Local River : Palar** **Sub-Division : Palar Ponnaiyar SD, Chennai**

| Day | Jun | | Jul | | Aug | | Sep | | Oct | | Nov | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | W.L | Q | W.L | Q | W.L | Q | W.L | Q | W.L | Q | W.L | Q |
| 1 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 158.810 | 0.000 |
| 2 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 158.810 | 0.000 |
| 3 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 158.840 | 0.000 |
| 4 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 158.980 | 0.000 |
| 5 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 158.970 | 0.000 |
| 6 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 158.960 | 0.000 |
| 7 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 158.960 | 0.000 |
| 8 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 159.010 | 0.000 |
| 9 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 159.030 | 0.000 |
| 10 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 159.050 | 0.000 |
| 11 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 159.080 | 0.000 |
| 12 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 159.050 | 0.000 |
| 13 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 159.110 | 0.000 |
| 14 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 159.040 | 0.000 |
| 15 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 159.070 | 0.000 |
| 16 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 159.160 | 0.000 |
| 17 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 159.210 | 43.92 # |
| 18 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 159.190 | 42.37 |
| 19 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 159.160 | 31.25 |
| 20 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 159.185 | 40.08 |
| 21 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 159.190 | 38.93 |
| 22 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 159.200 | 41.65 |
| 23 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 159.200 | 41.68 * |
| 24 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 159.665 | 216.3 |
| 25 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 159.755 | 219.1 |
| 26 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 159.410 | 90.66 |
| 27 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 159.170 | 31.76 |
| 28 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 159.100 | 23.86 |
| 29 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 158.990 | 6.772 * |
| 30 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 158.990 | 6.772 # |
| 31 | | | | 0.000 | | 0.000 | | | 158.810 | 0.000 | | |
| **Ten-Daily Mean** | | | | | | | | | | | | |
| I Ten-Daily | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 158.942 | 0.000 |
| II Ten-Daily | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 159.125 | 15.76 |
| III Ten-Daily | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 158.810 | 0.000 | 159.267 | 71.76 |
| **Monthly** | | | | | | | | | | | | |
| Min. | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 158.810 | 0.000 | 158.810 | 0.000 |
| Max. | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 158.810 | 0.000 | 159.755 | 219.1 |
| Mean | | 0 | | 0 | | 0 | | 0 | 158.810 | 0 | 159.111 | 29.17 |

**Annual Runoff in MCM = 168 Annual Runoff in mm = 17**

**Peak Observed Discharge = 219.1 cumecs on 25/11/2015 Corres. Water Level :159.755 m**

**Lowest Observed Discharge = 0.000 cumecs on 01/06/2015**

Q: Observed/Computed Discharge in cumecs

WL:Corresponding Mean Water Level(m.s.l) in m

*:Computed Discharge

#:Discarded Discharge (values changed as per rating curve)

*Note:Missing values ignored while arriving at Annual Runoff*

## Stage-Discharge Data for the period 2015 - 2016

**Station Name : Arcot ( CQ000I7)** **Division : Hydrology Division, Chennai**

**Local River : Palar** **Sub-Division : Palar Ponnaiyar SD, Chennai**

| Day | Dec | | Jan | | Feb | | Mar | | Apr | | May | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | W.L | Q | WL | Q | WL | Q | WL | Q | WL | Q | WL | Q |
| 1 | 159.015 | 78.71 # | 157.900 | 3.736 | 157.480 | 0.345 | 157.210 | 0.000 | | 0.000 | | 0.000 |
| 2 | 159.425 | 210.8 | 157.900 | 3.939 | 157.460 | 0.000 | 157.210 | 0.000 | | 0.000 | | 0.000 |
| 3 | 159.285 | 154.5 | 157.890 | 3.614 * | 157.430 | 0.000 | 157.200 | 0.000 | | 0.000 | | 0.000 |
| 4 | 158.920 | 59.13 # | 157.880 | 3.667 | 157.430 | 0.000 | 157.200 | 0.000 | | 0.000 | | 0.000 |
| 5 | 158.890 | 53.25 # | 157.850 | 2.568 | 157.420 | 0.000 | 157.200 | 0.000 | | 0.000 | | 0.000 |
| 6 | 158.820 | 40.80 * | 157.840 | 2.920 | 157.410 | 0.000 | 157.190 | 0.000 | | 0.000 | | 0.000 |
| 7 | 158.810 | 39.16 # | 157.830 | 2.308 | 157.400 | 0.000 | 157.190 | 0.000 | | 0.000 | | 0.000 |
| 8 | 158.730 | 27.31 # | 157.820 | 1.906 | 157.390 | 0.000 | 157.190 | 0.000 | | 0.000 | | 0.000 |
| 9 | 158.730 | 31.84 | 157.820 | 1.755 | 157.390 | 0.000 | 157.190 | 0.000 | | 0.000 | | 0.000 |
| 10 | 158.730 | 23.78 | 157.820 | 1.890 * | 157.340 | 0.000 | 157.180 | 0.000 | | 0.000 | | 0.000 |
| 11 | 158.710 | 24.41 | 157.810 | 1.505 | 157.340 | 0.000 | 157.180 | 0.000 | | 0.000 | | 0.000 |
| 12 | 158.790 | 35.98 # | 157.790 | 1.425 | 157.330 | 0.000 | 157.170 | 0.000 | | 0.000 | | 0.000 |
| 13 | 158.780 | 34.45 * | 157.790 | 1.452 | 157.320 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 14 | 158.830 | 42.47 # | 157.570 | 1.113 | 157.320 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 15 | 158.805 | 18.49 | 157.560 | 1.099 * | 157.320 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 16 | 158.780 | 14.97 | 157.560 | 1.030 | 157.310 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 17 | 158.770 | 13.51 | 157.560 | 1.099 * | 157.290 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 18 | 158.770 | 13.27 | 157.560 | 1.034 | 157.280 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 19 | 158.760 | 10.63 | 157.560 | 1.002 | 157.270 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 20 | 158.100 | 15.82 | 157.550 | 0.976 | 157.260 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 21 | 158.080 | 11.32 | 157.550 | 1.048 | 157.260 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 22 | 158.080 | 10.93 | 157.550 | 1.055 | 157.250 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 23 | 158.050 | 10.14 * | 157.540 | 1.075 | 157.240 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 24 | 158.010 | 8.147 # | 157.530 | 0.795 * | 157.230 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 25 | 157.990 | 7.245 * | 157.520 | 0.795 | 157.230 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 26 | 157.970 | 4.971 | 157.520 | 0.704 * | 157.220 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 27 | 157.960 | 6.004 * | 157.510 | 0.603 | 157.210 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 28 | 157.950 | 4.814 | 157.500 | 0.578 | 157.210 | 0.000 | | 0.000 | | 0.000 * | | 0.000 |
| 29 | 157.940 | 4.486 | 157.500 | 0.576 | 157.210 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 30 | 157.910 | 4.346 | 157.500 | 0.474 | | | | 0.000 | | 0.000 | | 0.000 |
| 31 | 157.900 | 3.620 | 157.490 | 0.459 * | | | | 0.000 | | | | 0.000 |
| **Ten-Daily Mean** | | | | | | | | | | | | |
| I Ten-Daily | 158.936 | 71.93 | 157.855 | 2.830 | 157.415 | 0.034 | 157.196 | 0.000 | | 0.000 | | 0.000 |
| II Ten-Daily | 158.710 | 22.40 | 157.631 | 1.173 | 157.304 | 0.000 | 157.175 | 0.000 | | 0.000 | | 0.000 |
| III Ten-Daily | 157.985 | 6.911 | 157.519 | 0.742 | 157.229 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| **Monthly** | | | | | | | | | | | | |
| Min. | 157.900 | 3.620 | 157.490 | 0.459 | 157.210 | 0.000 | 157.170 | 0.000 | | 0.000 | | 0.000 |
| Max. | 159.425 | 210.8 | 157.900 | 3.939 | 157.480 | 0.345 | 157.210 | 0.000 | | 0.000 | | 0.000 |
| Mean | 158.525 | 32.88 | 157.664 | 1.555 | 157.319 | 0.012 | 157.192 | 0 | | 0 | | 0 |

**Peak Computed Discharge = 41.68 cumecs on 23/11/2015** **Corres. Water Level :159.2 m**

**Lowest Computed Discharge = 0.000 cumecs on 28/04/2016**

Q: Observed/Computed Discharge in cumecs

WL:Corresponding Mean Water Level(m.s.l) in m

*:Computed Discharge

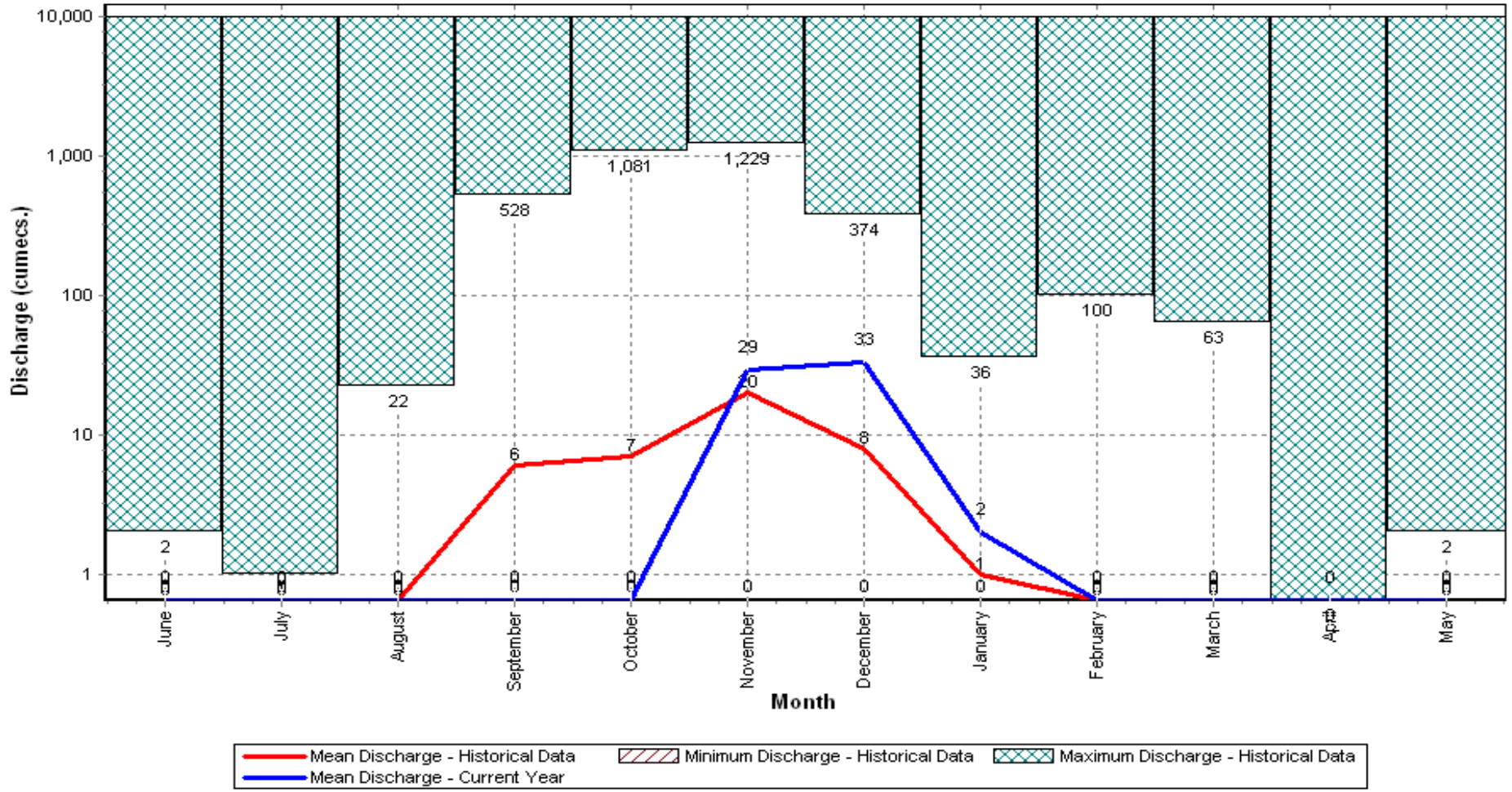
#:Discarded Discharge (values changed as per rating curve)

*Note:Missing values ignored while arriving at Annual Runoff*

**HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016**

**Station Name : Arcot ( CQ000I7)** | **Data considered : 1980-2016** | **Division : Hydrology Division, Chennai**

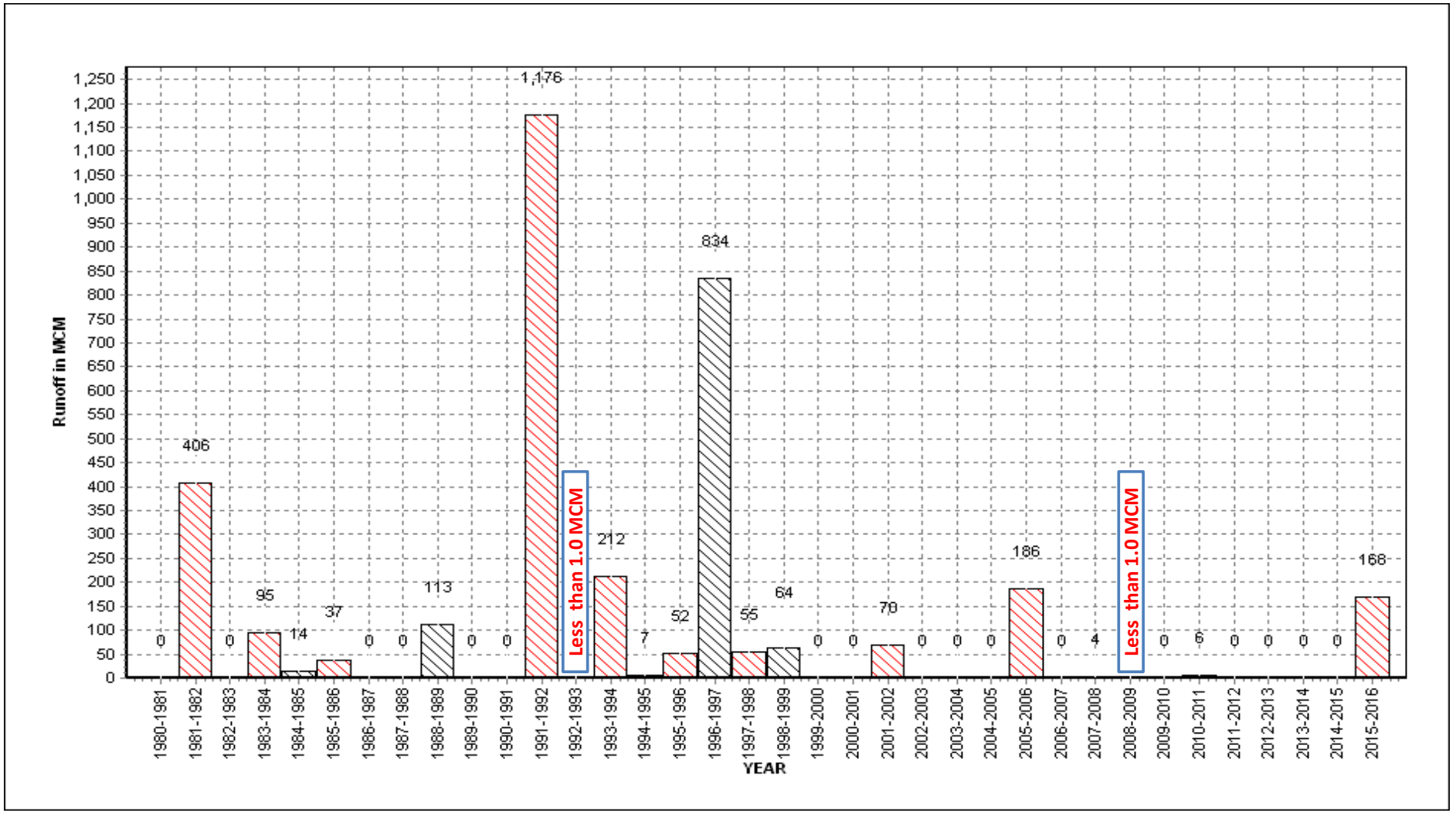
**Local River : Palar** | **Sub-Division : Palar Ponnaiyar SD, Chennai**



**Annual Runoff Values for the period: 1980 - 2016**

**Station Name : Arcot ( CQ000I7)**
**Local River : Palar**

**Division : Hydrology Division, Chennai**
**Sub-Division : Palar Ponnaiyar SD, Chennai**

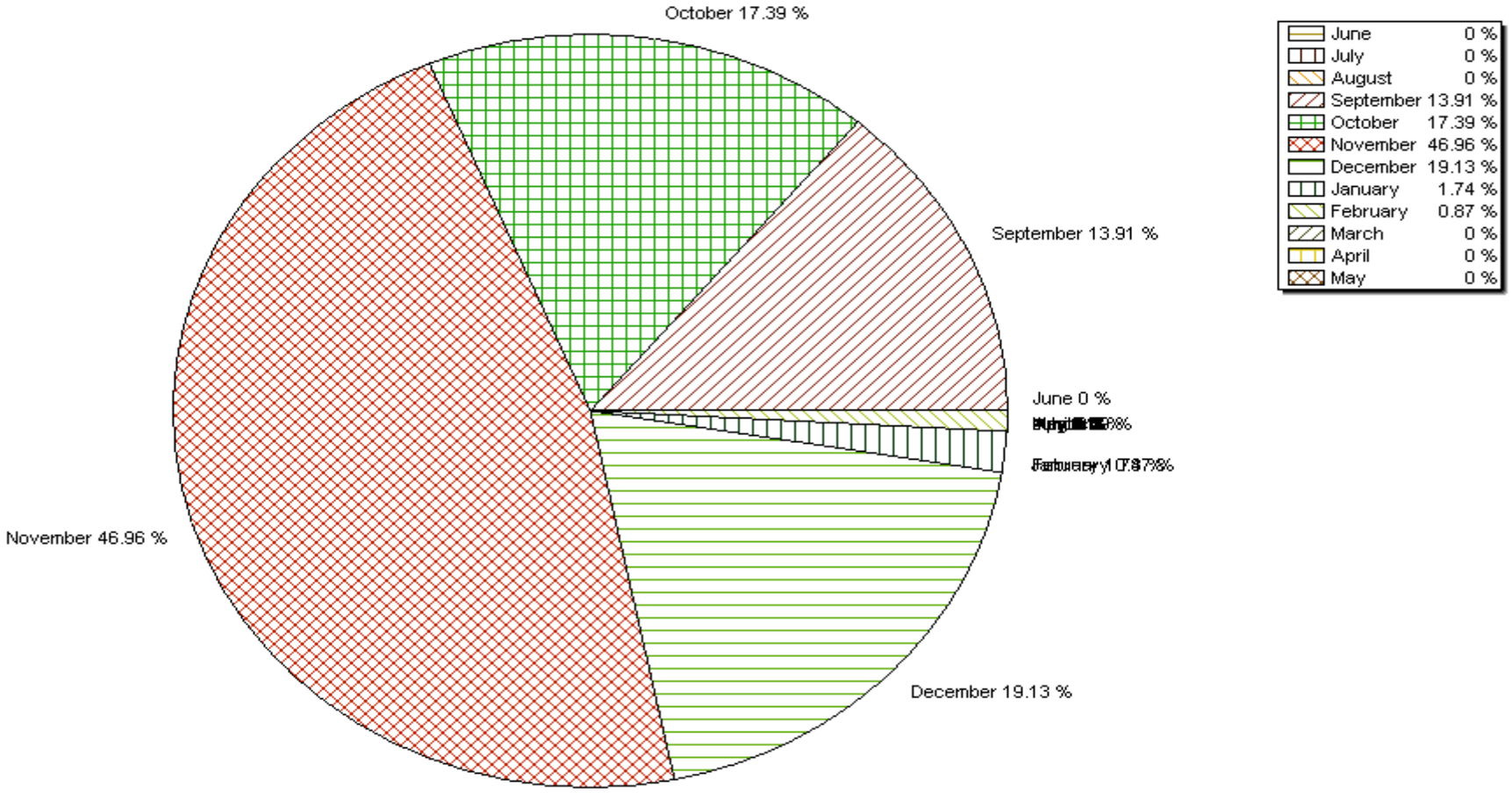



*Note: Missing values have not been considered while arriving at Annual Runoff*

**Monthly Average Runoff based on period : 1980-2015**

**Station Name : Arcot ( CQ000I7)**
**Local River : Palar**

**Division : Hydrology Division, Chennai**
**Sub-Division : Palar Ponnaiyar SD, Chennai**



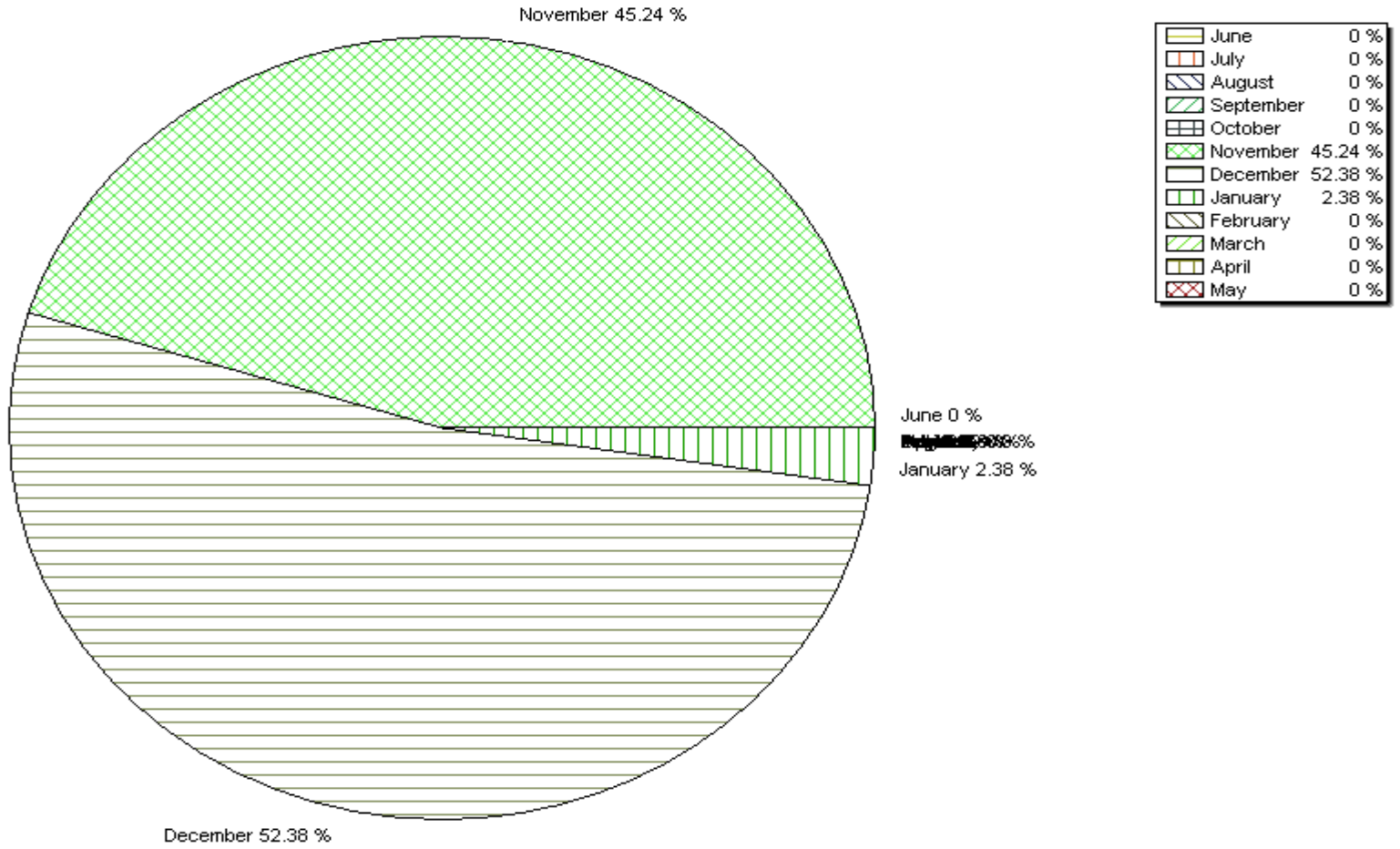
**Monthly Runoff for the Year : 2015-2016**

**Station Name : Arcot ( CQ000I7)**

**Local River : Palar**

**Division : Hydrology Division, Chennai**

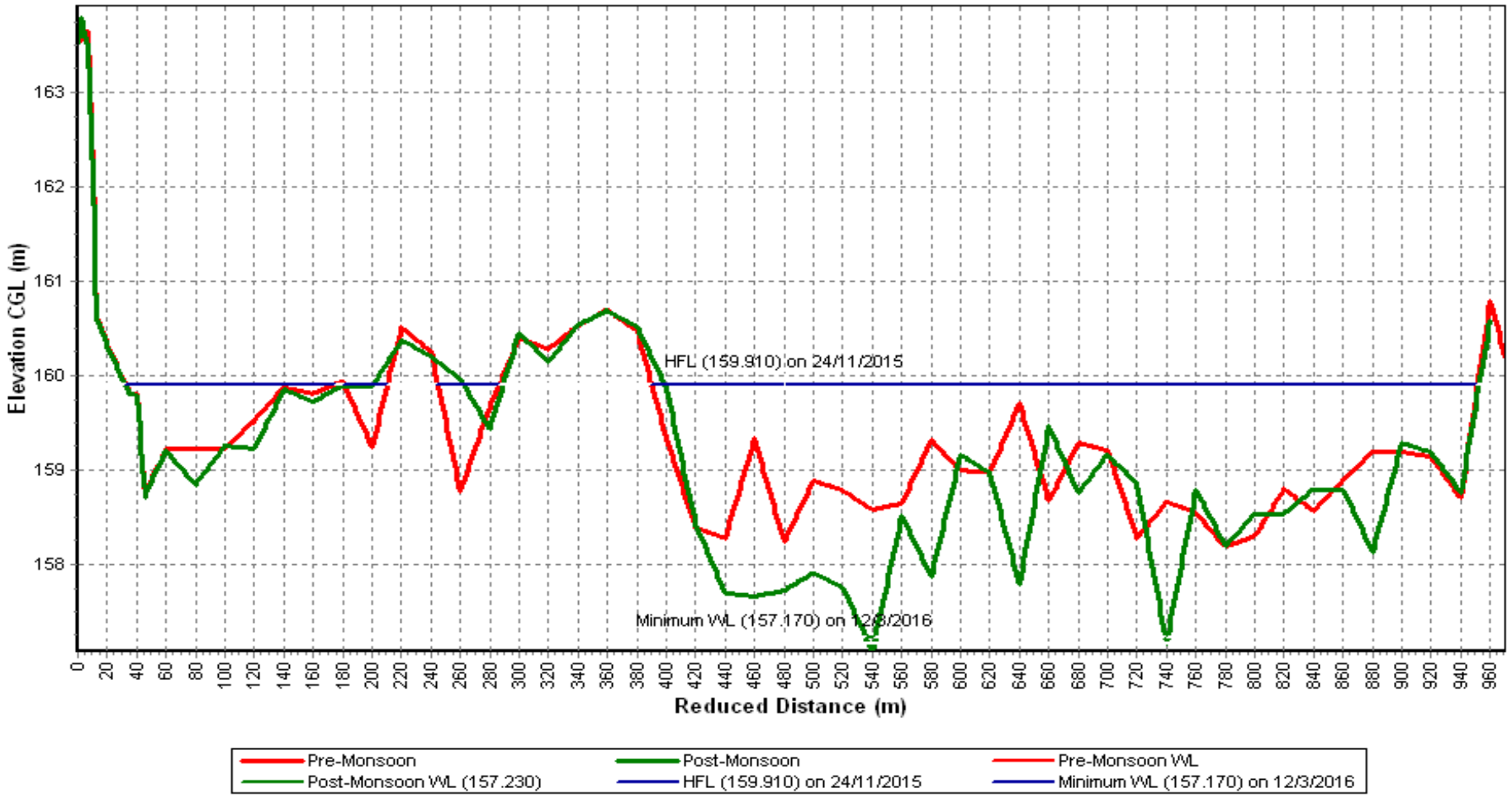
**Sub-Division : Palar Ponnaiyar SD, Chennai**



**Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2015-2016**

**Station Name : Arcot ( CQ000I7)** **Division : Hydrology Division, Chennai**

**Local River : Palar** **Sub-Division : Palar Ponnaiyar SD, Chennai**



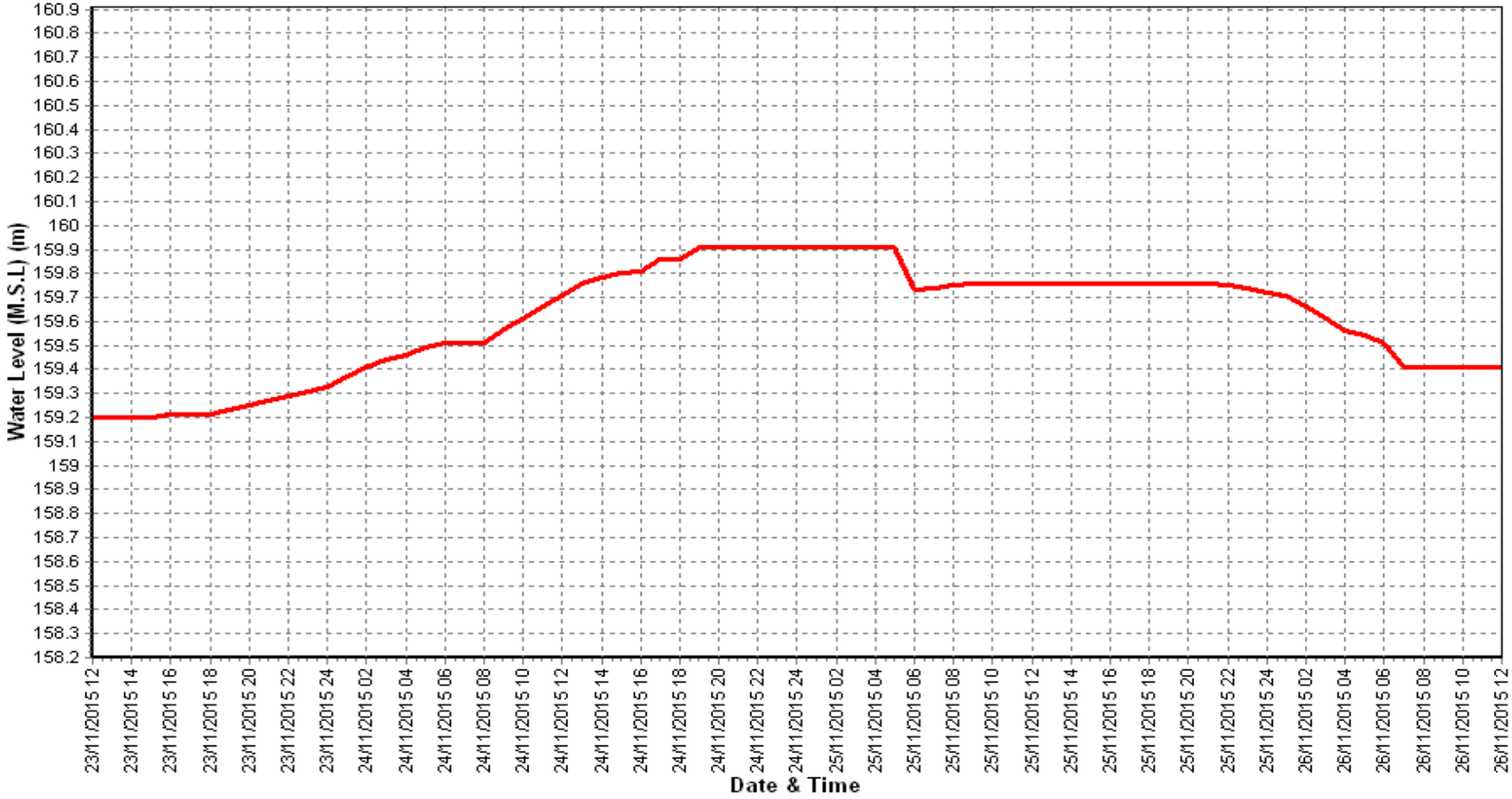
**Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2015-2016**

**Station Name : Arcot ( CQ000I7)**

**Division : Hydrology Division, Chennai**

**Local River : Palar**

**Sub-Division : Palar Ponnaiyar SD, Chennai**




Time Span: 72 Hrs

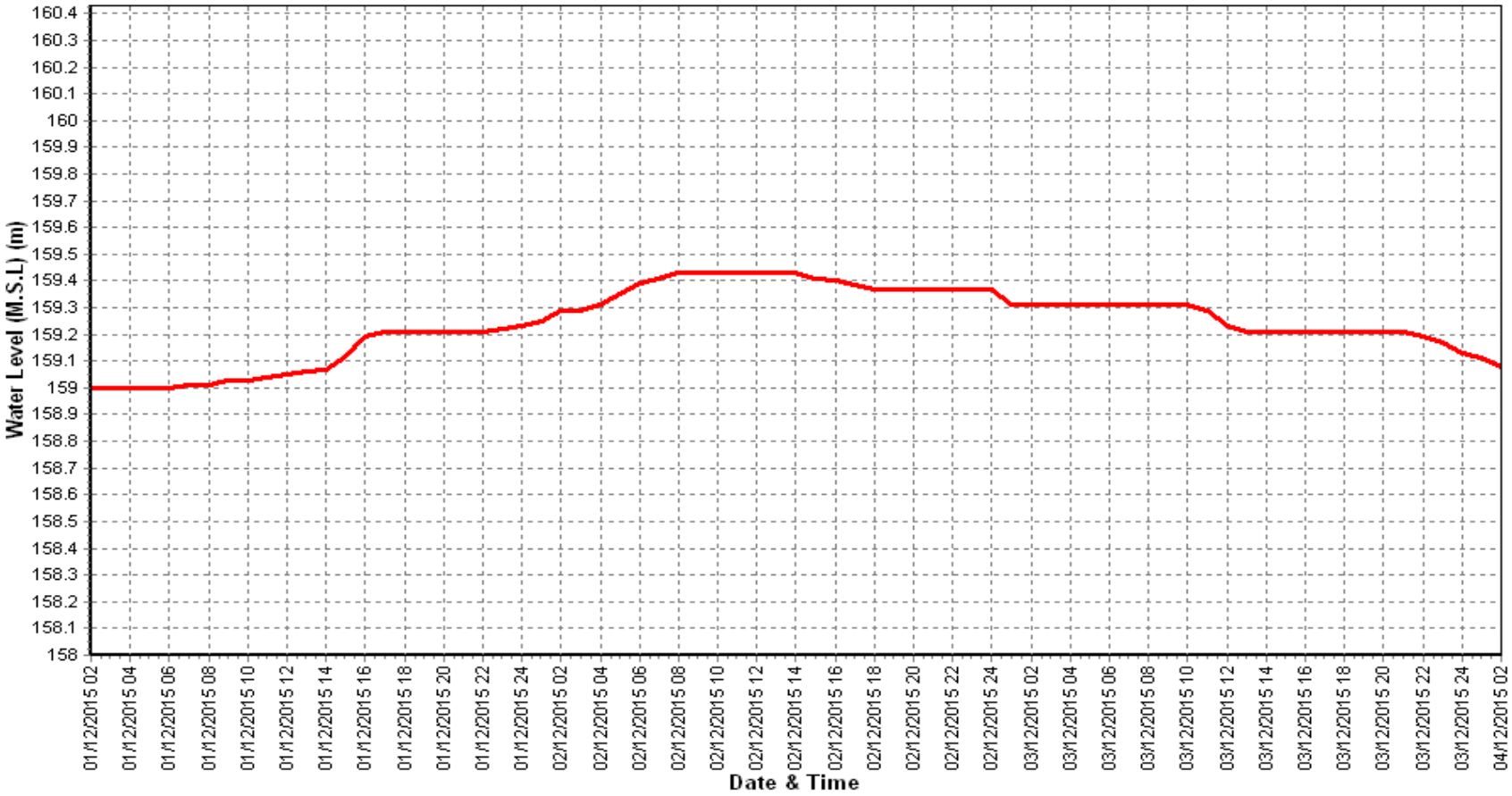
**Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2015-2016**

**Station Name : Arcot ( CQ000I7)**

**Local River : Palar**

**Division : Hydrology Division, Chennai**

**Sub-Division : Palar Ponnaiyar SD, Chennai**

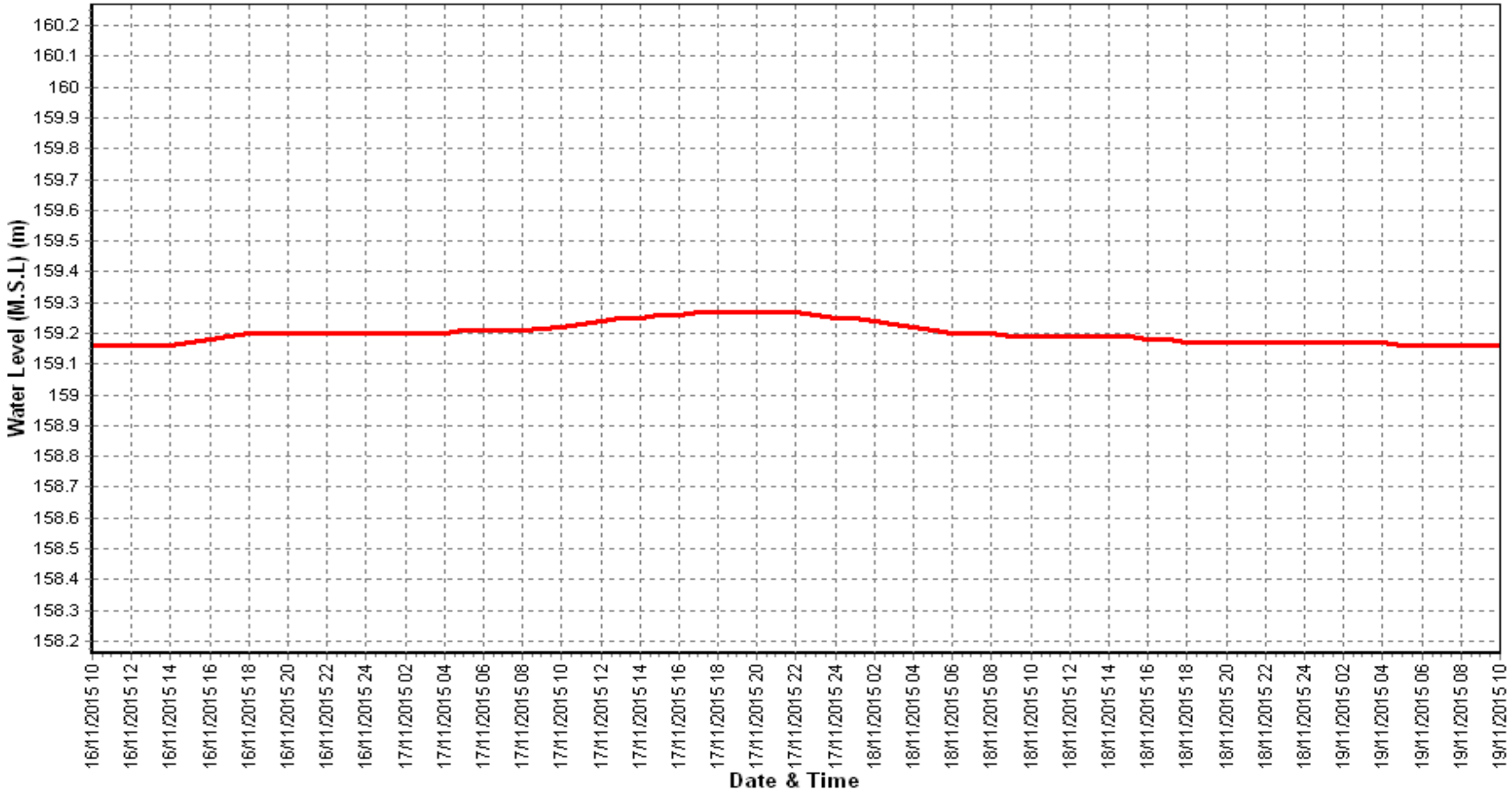



Time Span: 72 Hrs

**Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2015-2016**

**Station Name : Arcot ( CQ000I7)** **Division : Hydrology Division, Chennai**

**Local River : Palar** **Sub-Division : Palar Ponnaiyar SD, Chennai**




Time Span: 72 Hrs

## HISTORY SHEET

**Water Year : 2015-2016**

| | | | | | |
|---|---|---|---|---|---|
| **Site** | **:** | **Avarankuppam** | **Code** | **:** | **CQ000S4** |
| State | : | Tamil Nadu | District | | Vellore |
| Basin | : | EFR B Pennar-Cauvery | Independent River | : | Palar |
| Tributary | : | | Sub Tributary | : | |
| Sub-Sub Tributary | : | | Local River | : | Palar |
| Division | : | SR Division, Coimbatore | Sub-Division | : | Lower Cauvery SD, Trichi |
| Drainage Area | : | 3300 Sq. Km. | Bank | : | Right |
| Latitude | : | 12°41'03" | Longitude | : | 78°32'22" |
| **Zero of Gauge (m)** | : | 365.275 (m.s.l) | 07/06/1978 | | |
| | | Opening Date | Closing Date | | |
| Gauge | : | 07/06/1978 | | | |
| Discharge | : | 07/06/1978 | | | |
| Sediment | : | | | | |
| Water Quality | : | 01/08/1979 | | | |

**Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)**

| | Maximum | | | Minimum | | |
|---|---|---|---|---|---|---|
| **Year** | **Q (cumecs)** | **WL (m)** | **Date** | **Q (cumecs)** | **WL (m)** | **Date** |
| 1979-1980 | 290.9 | 368.363 | 19/11/1979 | 0.000 | 366.165 | 08/07/1979 |
| 1980-1981 | 1.900 | 366.400 | 25/10/1980 | 0.000 | 366.115 | 26/06/1980 |
| 1981-1982 | 290.0 | 368.450 | 11/09/1981 | 0.000 | Dry Bed | 01/06/1981 |
| 1982-1983 | 9.100 | 366.665 | 03/06/1982 | 0.000 | 366.335 | 30/06/1982 |
| 1983-1984 | 82.50 | 367.405 | 11/09/1983 | 0.000 | 366.620 | 01/06/1983 |
| 1984-1985 | 20.10 | 366.887 | 02/10/1984 | 0.000 | 366.300 | 01/06/1984 |
| 1985-1986 | 27.20 | 366.975 | 19/09/1985 | 0.000 | 366.300 | 12/06/1985 |
| 1986-1987 | 48.00 | 367.285 | 07/10/1986 | 0.000 | Dry Bed | 01/06/1986 |
| 1987-1988 | 51.65 | 367.515 | 14/10/1987 | 0.000 | Dry Bed | 01/06/1987 |
| 1988-1989 | 139.6 | 367.750 | 26/09/1988 | 0.000 | 366.125 | 05/06/1988 |
| 1989-1990 | 45.26 | 367.115 | 01/10/1989 | 0.000 | Dry Bed | 01/06/1989 |
| 1990-1991 | 9.271 | 366.670 | 14/10/1990 | 0.000 | Dry Bed | 09/09/1990 |
| 1991-1992 | 182.9 | 367.854 | 18/11/1991 | 0.000 | Dry Bed | 01/06/1991 |
| 1992-1993 | 12.23 | 366.645 | 17/10/1992 | 0.000 | Dry Bed | 04/07/1992 |
| 1993-1994 | 58.20 | 367.278 | 05/12/1993 | 0.000 | Dry Bed | 01/06/1993 |
| 1994-1995 | 9.868 | 366.600 | 06/11/1994 | 0.000 | Dry Bed | 01/06/1994 |
| 1995-1996 | 146.6 | 367.615 | 02/11/1995 | 0.000 | 366.130 | 09/06/1995 |
| 1996-1997 | 212.0 | 368.035 | 19/10/1996 | 0.000 | Dry Bed | 01/06/1996 |
| 1997-1998 | 18.10 | 366.785 | 19/11/1997 | 0.000 | Dry Bed | 01/06/1997 |

Q : Observed / Computed Discharge
WL : Corresponding Water Level(m.s.l)

**Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)**

| | Maximum | | | Minimum | | |
|---|---|---|---|---|---|---|
| **Year** | **Q (cumecs)** | **WL (m)** | **Date** | **Q (cumecs)** | **WL (m)** | **Date** |
| 1998-1999 | 109.6 | 367.495 | 12/10/1998 | 0.000 | Dry Bed | 01/06/1998 |
| 1999-2000 | 19.34 | 366.790 | 22/10/1999 | 0.000 | Dry Bed | 01/06/1999 |
| 2000-2001 | 2.188 | 366.160 | 25/10/2000 | 0.000 | Dry Bed | 01/06/2000 |
| 2001-2002 | 225.2 | 367.855 | 06/10/2001 | 0.000 | Dry Bed | 01/06/2001 |
| 2002-2003 | 0.810 | 366.095 | 10/06/2002 | 0.000 | Dry Bed | 01/06/2002 |
| 2003-2004 | 2.097 | 366.155 | 22/10/2003 | 0.000 | Dry Bed | 01/06/2003 |
| 2004-2005 | 2.996 | 366.245 | 13/07/2004 | 0.000 | Dry Bed | 14/06/2004 |
| 2005-2006 | 405.9 | 368.405 | 24/10/2005 | 0.000 | Dry Bed | 01/06/2005 |
| 2006-2007 | 40.52 | 366.735 | 09/10/2006 | 0.000 | Dry Bed | 13/06/2006 |
| 2007-2008 | 4.801 | 366.275 | 20/12/2007 | 0.000 | Dry Bed | 01/06/2007 |
| 2008-2009 | 43.37 | 366.915 | 26/10/2008 | 0.000 | Dry Bed | 01/06/2008 |
| 2009-2010 | 32.81 | 366.620 | 18/09/2009 | 0.000 | Dry Bed | 01/06/2009 |
| 2010-2011 | 17.15 | 366.510 | 08/11/2010 | 0.000 | Dry Bed | 01/061910 |
| 2011-2012 | 43.09 | 366.845 | 18/08/2011 | 0.000 | 365.855 | 18/06/2011 |
| 2012-2013 | 4.451 | 366.175 | 01/11/2012 | 0.000 | Dry Bed | 01/06/2012 |
| 2013-2014 | 0.000 | Dry Bed | 01/06/2013 | 0.000 | Dry Bed | 01/06/2013 |
| 2014-2015 | 0.000 | Dry Bed | 01/06/2014 | 0.000 | Dry Bed | 01/06/2014 |

Q : Observed / Computed Discharge
WL : Corresponding Water Level(m.s.l)

## Stage-Discharge Data for the period 2015 - 2016

**Station Name : Avarankuppam ( CQ000S4)** **Division : SR Division, Coimbatore**

**Local River : Palar** **Sub-Division : Lower Cauvery SD, Trichi**

| Day | Jun | | Jul | | Aug | | Sep | | Oct | | Nov | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | W.L | Q | W.L | Q | W.L | Q | W.L | Q | W.L | Q | W.L | Q | |
| 1 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | |
| 2 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | |
| 3 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | |
| 4 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | |
| 5 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | |
| 6 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | |
| 7 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | |
| 8 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | |
| 9 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | |
| 10 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | |
| 11 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | |
| 12 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | |
| 13 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | |
| 14 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | |
| 15 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | |
| 16 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 366.225 | 12.04 | |
| 17 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 366.095 | 6.963 | # |
| 18 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 365.965 | 2.996 | |
| 19 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 365.915 | 2.247 | |
| 20 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 365.895 | 2.013 | |
| 21 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 365.895 | 2.288 | |
| 22 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 365.895 | 2.043 | * |
| 23 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 365.915 | 2.443 | |
| 24 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 366.175 | 8.562 | |
| 25 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 366.075 | 5.878 | * |
| 26 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 365.875 | 2.437 | |
| 27 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 365.835 | 2.436 | # |
| 28 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 365.715 | 1.334 | |
| 29 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 365.695 | 1.195 | * |
| 30 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 365.675 | 1.157 | |
| 31 | | | | 0.000 | | 0.000 | | | | 0.000 | | | |
| **Ten-Daily Mean** | | | | | | | | | | | | | |
| I Ten-Daily | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | |
| II Ten-Daily | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 366.019 | 2.625 | |
| III Ten-Daily | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 365.875 | 2.977 | |
| **Monthly** | | | | | | | | | | | | | |
| Min. | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 365.675 | 0.000 | |
| Max. | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 366.225 | 12.04 | |
| Mean | | 0 | | 0 | | 0 | | 0 | | 0 | 365.923 | 1.868 | |

**Annual Runoff in MCM = 7 Annual Runoff in mm = 2**

**Peak Observed Discharge = 12.04 cumecs on 16/11/2015 Corres. Water Level :366.225 m**

**Lowest Observed Discharge = 0.000 cumecs on 01/06/2015**

Q: Observed/Computed Discharge in cumecs

WL:Corresponding Mean Water Level(m.s.l) in m

*:Computed Discharge

#:Discarded Discharge (values changed as per rating curve)

*Note:Missing values ignored while arriving at Annual Runoff*

## Stage-Discharge Data for the period 2015 - 2016

**Station Name : Avarankuppam ( CQ000S4)** **Division : SR Division, Coimbatore**

**Local River : Palar** **Sub-Division : Lower Cauvery SD, Trichi**

| Day | Dec | | Jan | | Feb | | Mar | | Apr | | May | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | W.L | Q | WL | Q | WL | Q | WL | Q | WL | Q | WL | Q |
| 1 | 366.055 | 4.326 | 365.495 | 0.224 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 2 | 365.925 | 3.039 | 365.475 | 0.125 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 3 | 365.875 | 3.122 | 365.455 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 4 | 365.795 | 1.862 # | 365.425 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 5 | 365.775 | 1.412 | 365.425 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 6 | 365.705 | 1.202 * | 365.425 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 7 | 365.625 | 0.733 # | 365.425 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 8 | 366.075 | 0.000 | 365.425 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 9 | 366.055 | 0.000 | 365.425 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 10 | 366.055 | 0.000 | 365.425 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 11 | 366.055 | 0.000 | 365.425 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 12 | 365.975 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 13 | 365.975 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 14 | 365.925 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 15 | 365.895 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 16 | 365.895 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 17 | 365.895 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 18 | 365.895 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 19 | 365.875 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 20 | 365.875 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 21 | 365.875 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 22 | 365.665 | 0.953 # | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 23 | 365.655 | 0.896 # | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 24 | 365.655 | 0.896 * | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 25 | 365.615 | 0.682 * | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 26 | 365.515 | 0.264 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 27 | 365.515 | 0.272 * | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 28 | 365.515 | 0.262 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 29 | 365.505 | 0.262 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 30 | 365.495 | 0.249 | | 0.000 | | | | 0.000 | | 0.000 | | 0.000 |
| 31 | 365.495 | 0.225 | | 0.000 | | | | 0.000 | | | | 0.000 |
| **Ten-Daily Mean** | | | | | | | | | | | | |
| I Ten-Daily | 365.894 | 1.570 | 365.440 | 0.035 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| II Ten-Daily | 365.926 | 0.000 | 365.425 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| III Ten-Daily | 365.591 | 0.451 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| **Monthly** | | | | | | | | | | | | |
| Min. | 365.495 | 0.000 | 365.425 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| Max. | 366.075 | 4.326 | 365.495 | 0.224 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| Mean | 365.797 | 0.666 | 365.439 | 0.011 | | 0 | | 0 | | 0 | | 0 |

**Peak Computed Discharge = 5.878 cumecs on 25/11/2015 Corres. Water Level :366.075 m**

**Lowest Computed Discharge = 0.272 cumecs on 27/12/2015 Corres. Water Level :365.515 m**

Q: Observed/Computed Discharge in cumecs

WL:Corresponding Mean Water Level(m.s.l) in m

*:Computed Discharge

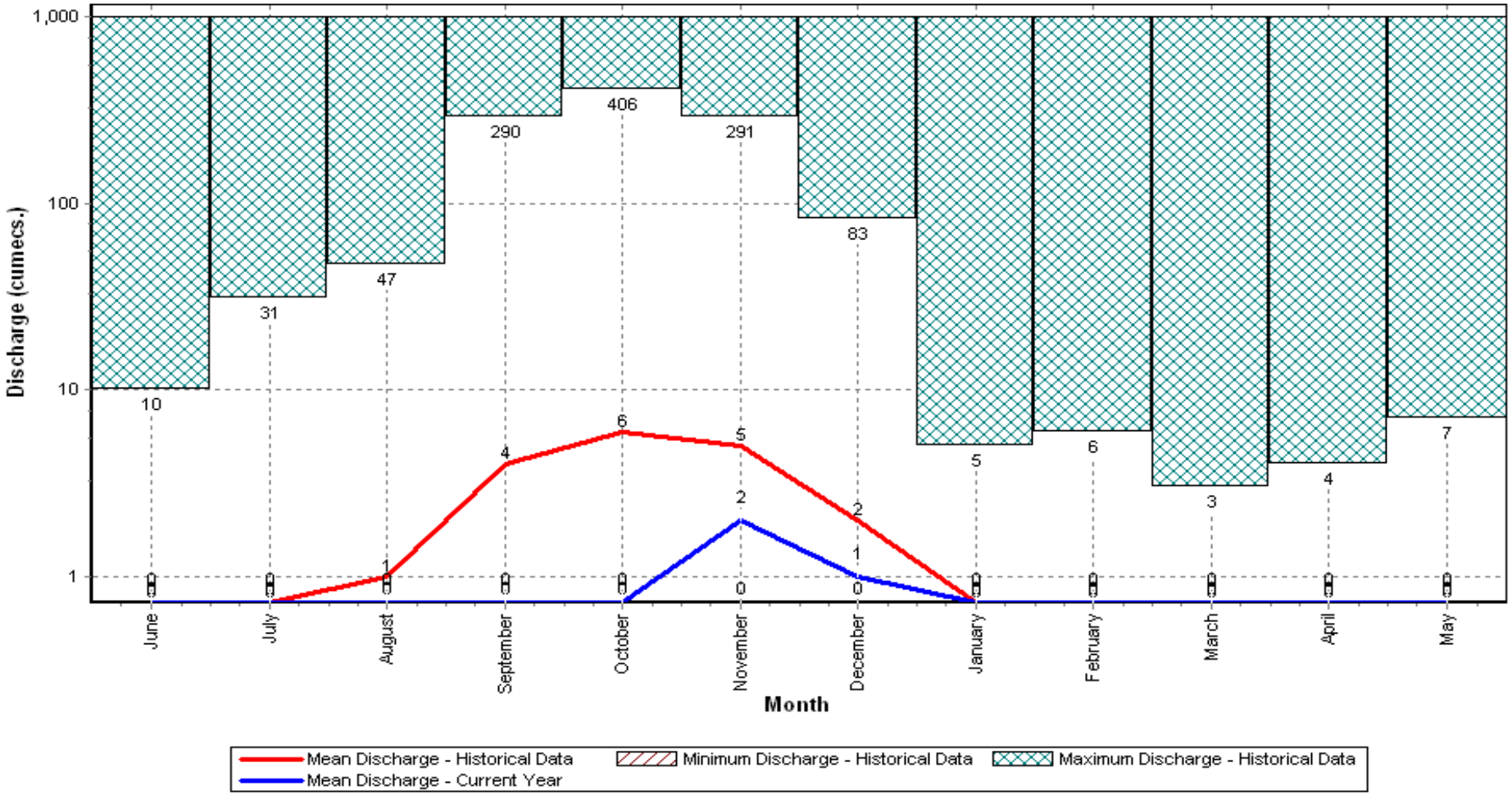
#:Discarded Discharge (values changed as per rating curve)

*Note:Missing values ignored while arriving at Annual Runoff*

**HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016**

**Station Name : Avarankuppam ( CQ000S4)** | **Data considered : 1979-2016** | **Division : SR Division, Coimbatore**

**Local River : Palar** | **Sub-Division : Lower Cauvery SD, Trichi**



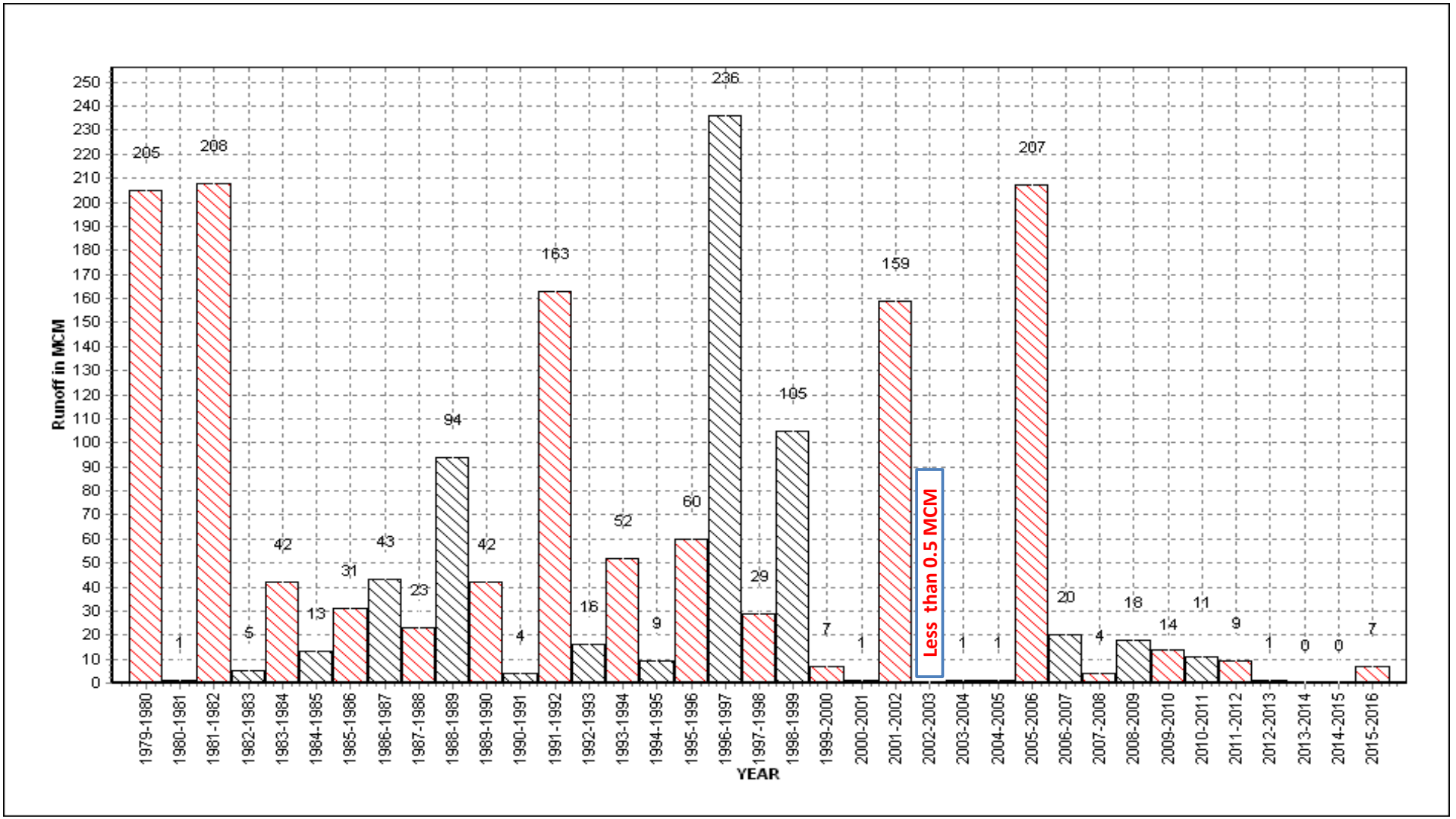
**Annual Runoff Values for the period: 1979 - 2016**

**Station Name : Avarankuppam ( CQ000S4)**

**Local River : Palar**

**Division : SR Division, Coimbatore**

**Sub-Division : Lower Cauvery SD, Trichi**




*Note: Missing values have not been considered while arriving at Annual Runoff*

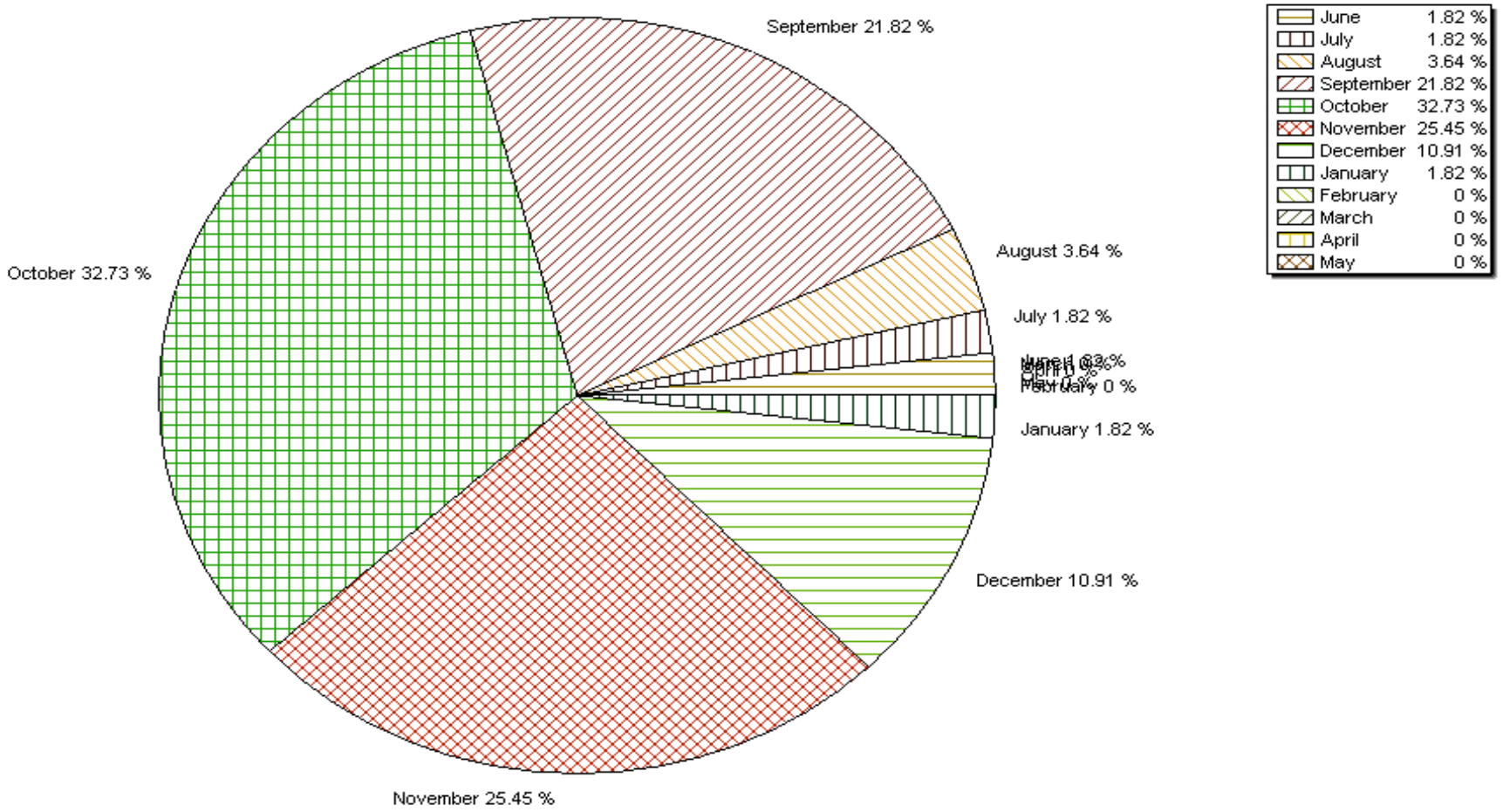
**Monthly Average Runoff based on period : 1979-2015**

**Station Name : Avarankuppam ( CQ000S4)**

**Local River : Palar**

**Division : SR Division, Coimbatore**

**Sub-Division : Lower Cauvery SD, Trichi**



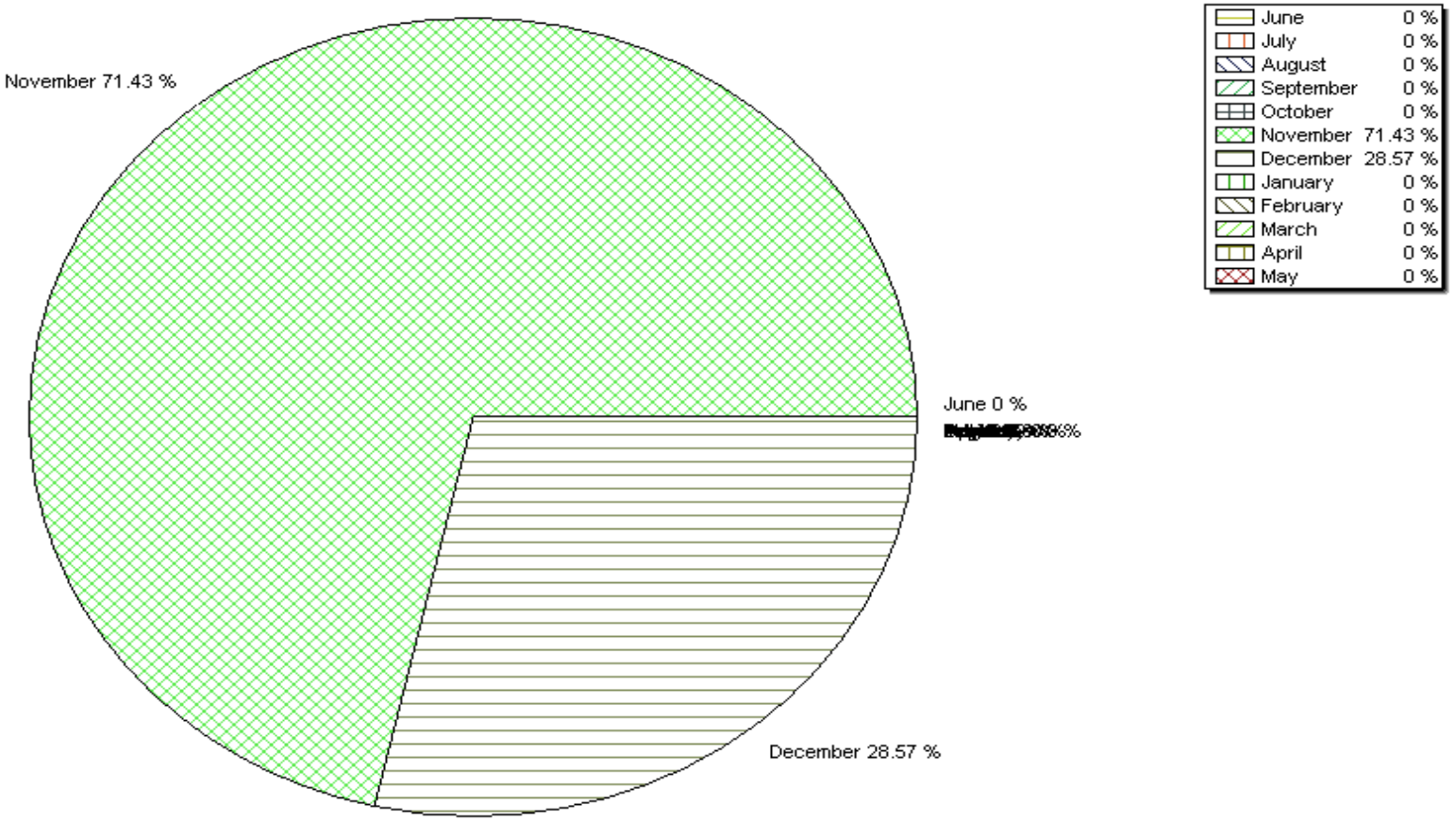
**Monthly Runoff for the Year : 2015-2016**

**Station Name : Avarankuppam ( CQ000S4)**

**Division : SR Division, Coimbatore**

**Local River : Palar**

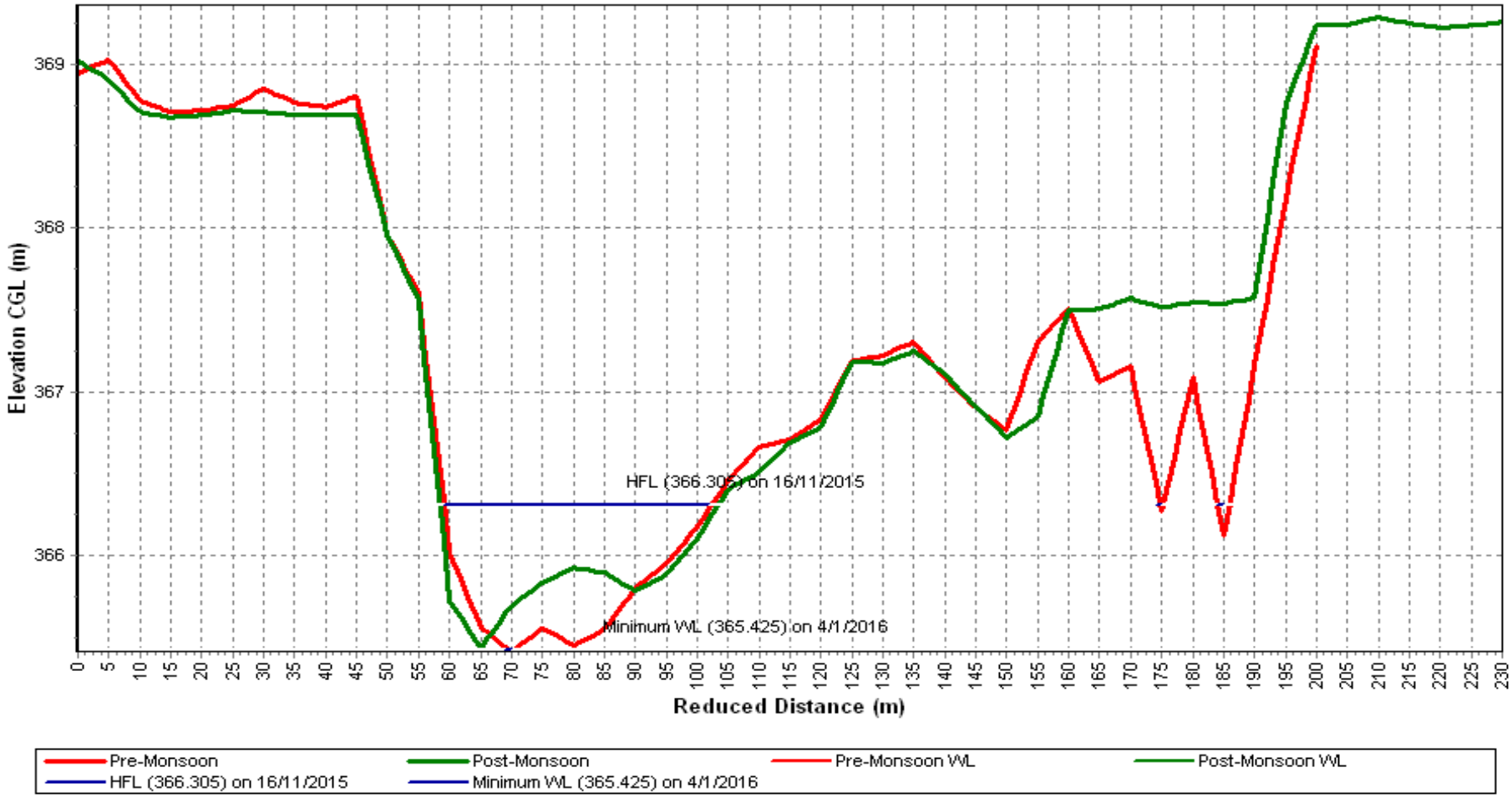
**Sub-Division : Lower Cauvery SD, Trichi**



**Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2015-2016**

**Station Name : Avarankuppam ( CQ000S4)** **Division : SR Division, Coimbatore**

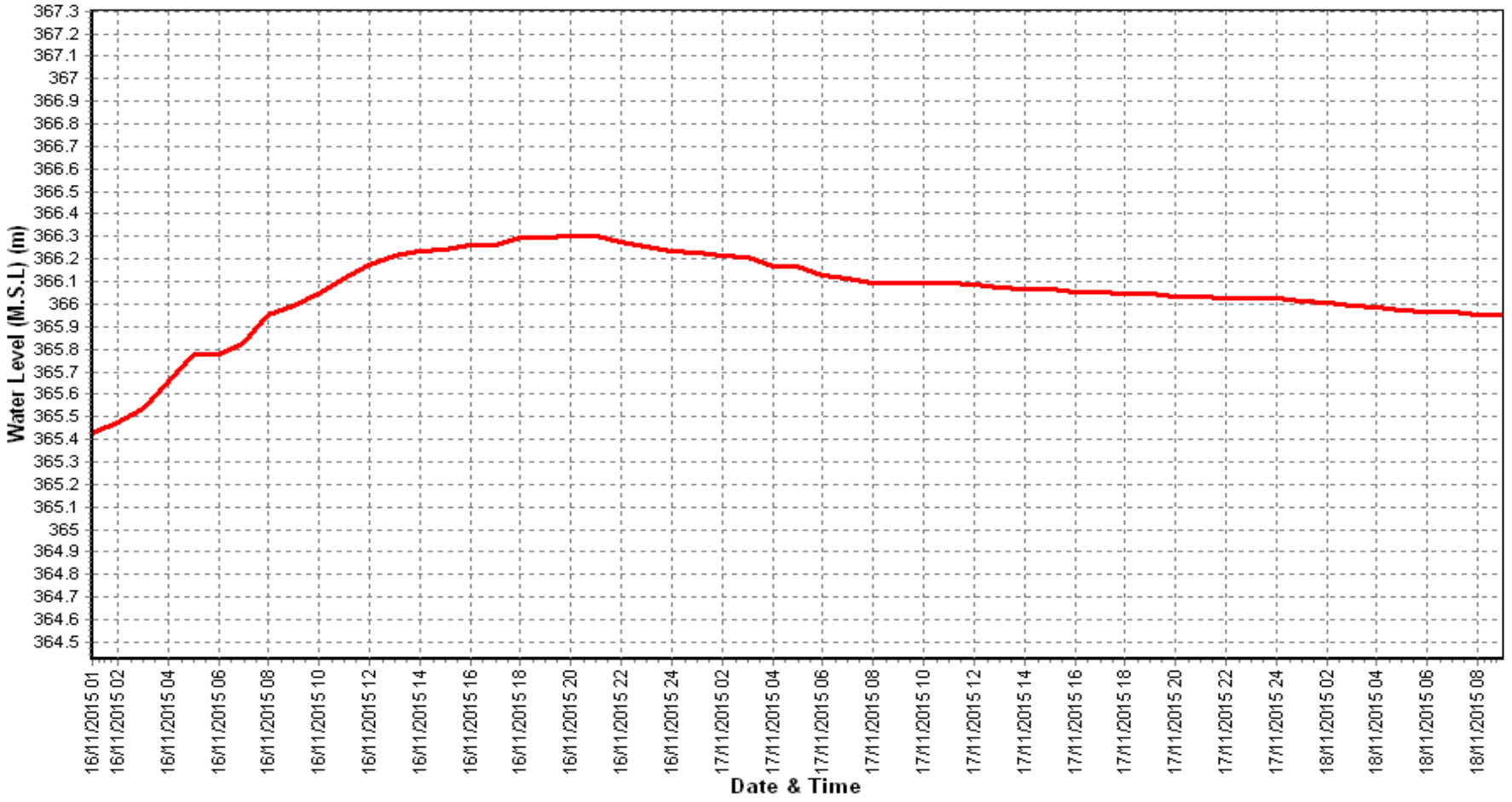
**Local River : Palar** **Sub-Division : Lower Cauvery SD, Trichi**



**Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2015-2016**

**Station Name : Avarankuppam ( CQ000S4)** **Division : SR Division, Coimbatore**

**Local River : Palar** **Sub-Division : Lower Cauvery SD, Trichi**

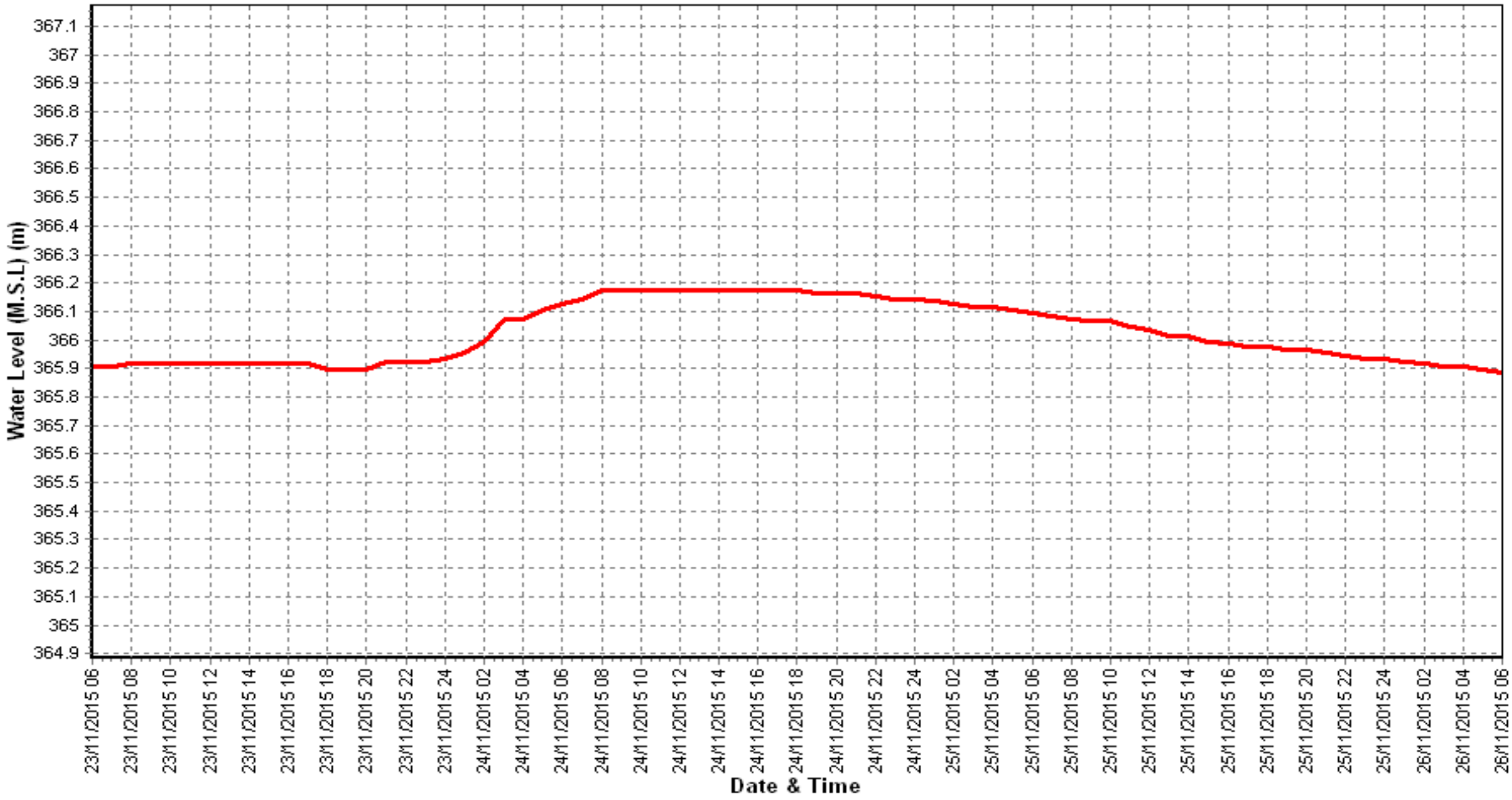



Time Span: 72 Hrs

**Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2015-2016**

**Station Name : Avarankuppam ( CQ000S4)** **Division : SR Division, Coimbatore**

**Local River : Palar** **Sub-Division : Lower Cauvery SD, Trichi**

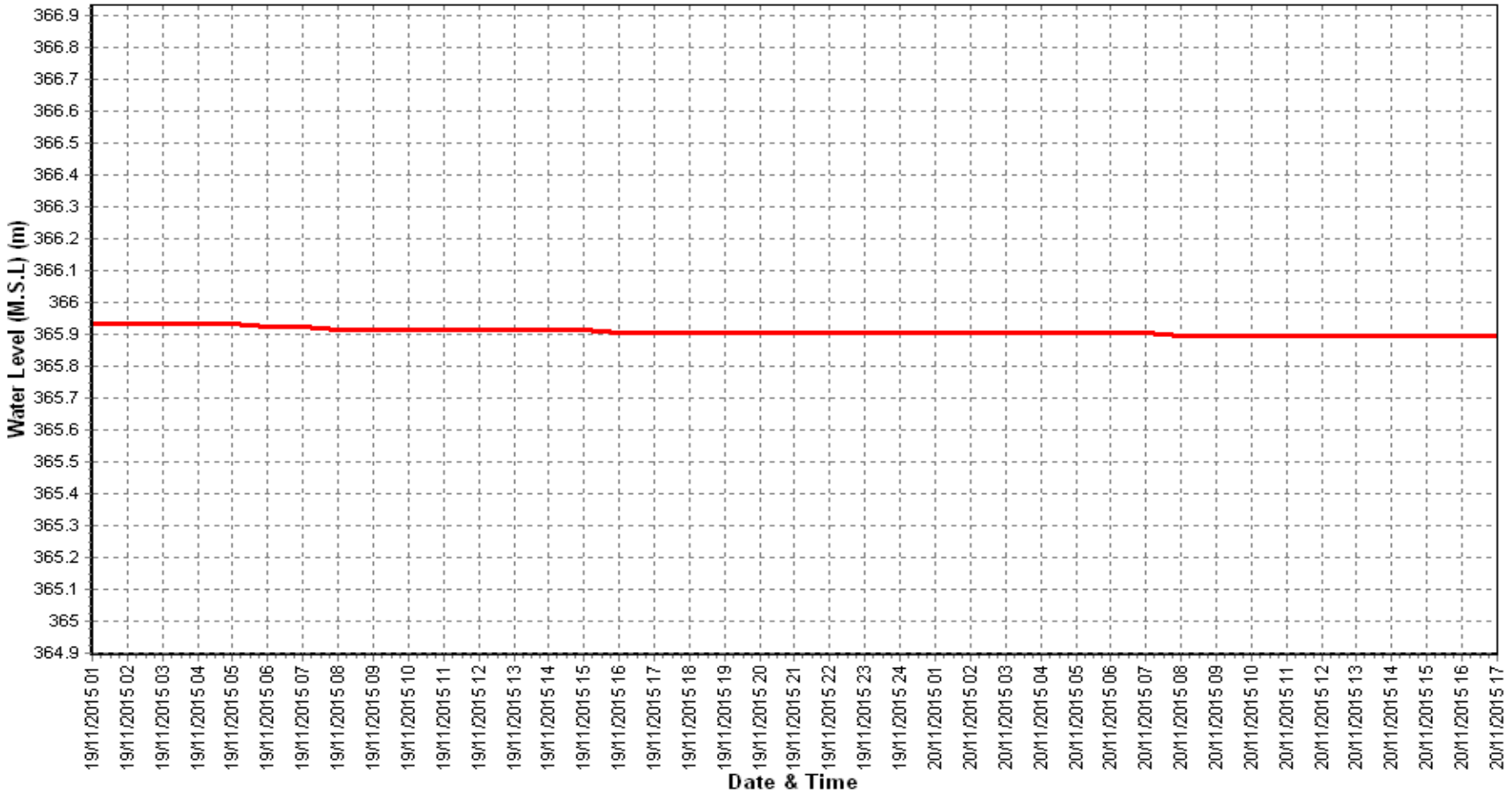



Time Span: 72 Hrs

**Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2015-2016**

**Station Name : Avarankuppam ( CQ000S4)** **Division : SR Division, Coimbatore**

**Local River : Palar** **Sub-Division : Lower Cauvery SD, Trichi**




Time Span: 72 Hrs

## HISTORY SHEET

**Water Year : 2015-2016**

| | | | | | |
|---|---|---|---|---|---|
| **Site** | : | **Kumarapalayam** | **Code** | : | **CCR00F3** |
| State | : | Pondicherry | District | | Pondicherry |
| Basin | : | EFR B Pennar-Cauvery | Independent River | : | Varahanadi |
| Tributary | : | | Sub Tributary | : | |
| Sub-Sub Tributary | : | | Local River | : | Varahanadi |
| Division | : | Hydrology Division, Chennai | Sub-Division | : | Palar Ponnaiyar SD, Chennai |
| Drainage Area | : | 2208 Sq. Km. | Bank | : | Left |
| Latitude | : | 11°59'00" | Longitude | : | 79°40'50" |
| **Zero of Gauge (m)** | : | 8.500 (m.s.l)<br>8.825 (m.s.l) | 01/02/1998<br>01/06/2009 | - | 31/05/2009 |
| | | Opening Date | Closing Date | | |
| Gauge | : | 01/02/1998 | | | |
| Discharge | : | 02/11/2004 | | | |
| Sediment | : | | | | |
| Water Quality | : | 12/12/2005 | | | |

**Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)**

| | Maximum | | | Minimum | | |
|---|---|---|---|---|---|---|
| **Year** | **Q (cumecs)** | **WL (m)** | **Date** | **Q (cumecs)** | **WL (m)** | **Date** |
| 2005-2006 | 83.61 | 12.200 | 14/12/2005 | 0.000 | Dry Bed | 01/06/2005 |
| 2006-2007 | 0.000 | Dry bed | 01/06/2006 | 0.000 | Dry Bed | 01/06/2006 |
| 2007-2008 | 24.89 | 11.050 | 20/12/2007 | 0.000 | Dry Bed | 01/06/2007 |
| 2008-2009 | 200.3 | 12.300 | 28/11/2008 | 0.000 | Dry Bed | 01/06/2008 |
| 2009-2010 | 43.88 | 11.113 | 15/11/2009 | 0.000 | Dry Bed | 01/06/2009 |
| 2010-2011 | 336.2 | 12.465 | 03/12/2010 | 0.000 | Dry Bed | 01/06/2010 |
| 2011-2012 | 502.2 | 13.120 | 31/12/2011 | 0.000 | Dry Bed | 01/06/2011 |
| 2012-2013 | 97.80 | 11.765 | 01/11/2012 | 0.000 | 9.555 | 01/06/2012 |
| 2013-2014 | 0.000 | Dry bed | 01/06/2013 | 0.000 | Dry Bed | 01/06/2013 |
| 2014-2015 | 0.000 | Dry bed | 01/06/2014 | 0.000 | Dry Bed | 01/06/2014 |

Q : Observed / Computed Discharge
WL : Corresponding Water Level(m.s.l)

## Stage-Discharge Data for the period 2015 - 2016

**Station Name : Kumarapalayam ( CCR00F3)** **Division : Hydrology Division, Chennai**

**Local River : Varahanadi** **Sub-Division : Palar Ponnaiyar SD, Chennai**

| Day | Jun | | Jul | | Aug | | Sep | | Oct | | Nov | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | W.L | Q | W.L | Q | W.L | Q | W.L | Q | W.L | Q | W.L | Q |
| 1 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 2 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 3 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 4 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 5 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 6 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 7 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 8 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 9 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 10 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 9.245 | 0.000 |
| 11 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 10.310 | 1.715 |
| 12 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 10.005 | 0.016 # |
| 13 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 9.870 | 0.000 |
| 14 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 9.825 | 0.000 |
| 15 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 9.845 | 0.000 |
| 16 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 11.115 | 29.74 |
| 17 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 10.565 | 5.161 |
| 18 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 10.300 | 1.584 |
| 19 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 10.205 | 0.000 |
| 20 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 10.325 | 0.000 |
| 21 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 10.345 | 0.000 |
| 22 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 10.355 | 0.000 |
| 23 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 11.900 | 108.9 |
| 24 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 12.265 | 265.8 |
| 25 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 12.065 | 220.3 # |
| 26 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 11.520 | 111.9 |
| 27 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 11.170 | 55.23 |
| 28 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 11.040 | 52.55 |
| 29 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 10.580 | 6.526 |
| 30 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 11.340 | 97.16 |
| 31 | | | | 0.000 | | 0.000 | | | | 0.000 | | |
| **Ten-Daily Mean** | | | | | | | | | | | | |
| I Ten-Daily | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 9.245 | 0.000 |
| II Ten-Daily | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 10.237 | 3.822 |
| III Ten-Daily | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 11.258 | 91.85 |
| **Monthly** | | | | | | | | | | | | |
| Min. | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 9.245 | 0.000 |
| Max. | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 12.265 | 265.8 |
| Mean | | 0 | | 0 | | 0 | | 0 | | 0 | 10.676 | 31.89 |

**Annual Runoff in MCM = 377 Annual Runoff in mm = 171**

**Peak Observed Discharge = 785.5 cumecs on 02/12/2015 Corres. Water Level :13.86 m**

**Lowest Observed Discharge = 0.000 cumecs on 01/06/2015**

Q: Observed/Computed Discharge in cumecs

WL:Corresponding Mean Water Level(m.s.l) in m

*:Computed Discharge

#:Discarded Discharge (values changed as per rating curve)

*Note:Missing values ignored while arriving at Annual Runoff*

## Stage-Discharge Data for the period 2015 - 2016

**Station Name : Kumarapalayam ( CCR00F3)** **Division : Hydrology Division, Chennai**

**Local River : Varahanadi** **Sub-Division : Palar Ponnaiyar SD, Chennai**

| Day | Dec | | Jan | | Feb | | Mar | | Apr | | May | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | W.L | Q | WL | Q | WL | Q | WL | Q | WL | Q | WL | Q |
| 1 | 12.378 | 330.8 | 10.285 | 0.000 | 10.060 | 0.000 | 9.155 | 0.000 | 8.660 | 0.000 | | 0.000 |
| 2 | 13.860 | 785.5 | 10.285 | 0.000 | 10.050 | 0.000 | 9.140 | 0.000 | 8.640 | 0.000 | | 0.000 |
| 3 | 13.310 | 751.7 | 10.285 | 0.000 | 10.050 | 0.000 | 9.120 | 0.000 | 8.620 | 0.000 | | 0.000 |
| 4 | 12.305 | 341.4 # | 10.285 | 0.000 | 10.020 | 0.000 | 9.105 | 0.000 | 8.590 | 0.000 | | 0.000 |
| 5 | 11.743 | 201.1 | 10.285 | 0.000 | 10.005 | 0.000 | 9.090 | 0.000 | 8.565 | 0.000 | | 0.000 |
| 6 | 11.865 | 226.6 * | 10.280 | 0.000 | 9.985 | 0.000 | 9.080 | 0.000 | 8.540 | 0.000 | | 0.000 |
| 7 | 12.045 | 310.7 | 10.285 | 0.000 | 9.980 | 0.000 | 9.065 | 0.000 | 8.515 | 0.000 | | 0.000 |
| 8 | 11.535 | 140.5 | 10.285 | 0.000 | 9.965 | 0.000 | 9.060 | 0.000 | 8.490 | 0.000 | | 0.000 |
| 9 | 11.320 | 105.4 | 10.265 | 0.000 | 9.960 | 0.000 | 9.050 | 0.000 | 8.460 | 0.000 | | 0.000 |
| 10 | 10.890 | 46.65 # | 10.265 | 0.000 | 9.950 | 0.000 | 9.040 | 0.000 | 8.440 | 0.000 | | 0.000 |
| 11 | 10.875 | 52.56 | 10.240 | 0.000 | 9.935 | 0.000 | 9.035 | 0.000 | 8.420 | 0.000 | | 0.000 |
| 12 | 10.795 | 35.39 # | 10.230 | 0.000 | 9.925 | 0.000 | 9.030 | 0.000 | 8.400 | 0.000 | | 0.000 |
| 13 | 10.650 | 20.76 * | 10.225 | 0.000 | 9.910 | 0.000 | 9.000 | 0.000 | | 0.000 | | 0.000 |
| 14 | 10.710 | 26.43 # | 10.215 | 0.000 | 9.895 | 0.000 | 8.985 | 0.000 | | 0.000 | | 0.000 |
| 15 | 10.423 | 4.207 | 10.205 | 0.000 | 9.885 | 0.000 | 8.975 | 0.000 | | 0.000 | | 0.000 |
| 16 | 10.515 | 9.851 | 10.200 | 0.000 | 9.880 | 0.000 | 8.950 | 0.000 | | 0.000 | | 0.000 |
| 17 | 10.495 | 8.833 # | 10.195 | 0.000 | 9.865 | 0.000 | 8.930 | 0.000 | | 0.000 | | 0.000 |
| 18 | 10.348 | 2.007 | 10.185 | 0.000 | 9.850 | 0.000 | 8.910 | 0.000 | | 0.000 | | 0.000 |
| 19 | 10.390 | 3.263 # | 10.180 | 0.000 | 9.835 | 0.000 | 8.890 | 0.000 | | 0.000 | | 0.000 |
| 20 | 10.400 | 3.695 * | 10.170 | 0.000 | 9.820 | 0.000 | 8.865 | 0.000 | | 0.000 | | 0.000 |
| 21 | 10.330 | 1.157 # | 10.165 | 0.000 | 9.810 | 0.000 | 8.840 | 0.000 | | 0.000 | | 0.000 |
| 22 | 10.310 | 0.688 | 10.160 | 0.000 | 9.800 | 0.000 | 8.830 | 0.000 | | 0.000 | | 0.000 |
| 23 | 10.330 | 1.157 # | 10.150 | 0.000 | 9.785 | 0.000 | 8.830 | 0.000 | | 0.000 | | 0.000 |
| 24 | 10.325 | 1.023 * | 10.145 | 0.000 | 9.775 | 0.000 | 8.810 | 0.000 | | 0.000 | | 0.000 |
| 25 | 10.260 | 0.001 * | 10.140 | 0.000 | 9.600 | 0.000 | 8.795 | 0.000 | | 0.000 | | 0.000 |
| 26 | 10.285 | 0.240 | 10.125 | 0.000 | 9.500 | 0.000 | 8.785 | 0.000 | | 0.000 | | 0.000 |
| 27 | 10.290 | 0.285 * | 10.115 | 0.000 | 9.300 | 0.000 | 8.770 | 0.000 | | 0.000 | | 0.000 |
| 28 | 10.290 | 0.222 | 10.105 | 0.000 | 9.190 | 0.000 | 8.750 | 0.000 | | 0.000 | | 0.000 |
| 29 | 10.285 | 0.000 | 10.090 | 0.000 | 9.170 | 0.000 | 8.740 | 0.000 | | 0.000 | | 0.000 |
| 30 | 10.285 | 0.000 | 10.085 | 0.000 | | | 8.710 | 0.000 | | 0.000 | | 0.000 |
| 31 | 10.285 | 0.000 | 10.075 | 0.000 | | | 8.685 | 0.000 | | | | 0.000 |
| **Ten-Daily Mean** | | | | | | | | | | | | |
| I Ten-Daily | 12.125 | 324.0 | 10.280 | 0.000 | 10.003 | 0.000 | 9.091 | 0.000 | 8.552 | 0.000 | | 0.000 |
| II Ten-Daily | 10.560 | 16.70 | 10.204 | 0.000 | 9.880 | 0.000 | 8.957 | 0.000 | 8.410 | 0.000 | | 0.000 |
| III Ten-Daily | 10.298 | 0.434 | 10.123 | 0.000 | 9.548 | 0.000 | 8.777 | 0.000 | | 0.000 | | 0.000 |
| **Monthly** | | | | | | | | | | | | |
| Min. | 10.260 | 0.000 | 10.075 | 0.000 | 9.170 | 0.000 | 8.685 | 0.000 | 8.400 | 0.000 | | 0.000 |
| Max. | 13.860 | 785.5 | 10.285 | 0.000 | 10.060 | 0.000 | 9.155 | 0.000 | 8.660 | 0.000 | | 0.000 |
| Mean | 10.972 | 110.1 | 10.200 | 0 | 9.819 | 0 | 8.936 | 0 | 8.528 | 0 | | 0 |

**Peak Computed Discharge = 226.6 cumecs on 06/12/2015** **Corres. Water Level :11.865 m**

**Lowest Computed Discharge = 0.001 cumecs on 25/12/2015** **Corres. Water Level :10.26 m**

Q: Observed/Computed Discharge in cumecs

WL:Corresponding Mean Water Level(m.s.l) in m

*:Computed Discharge

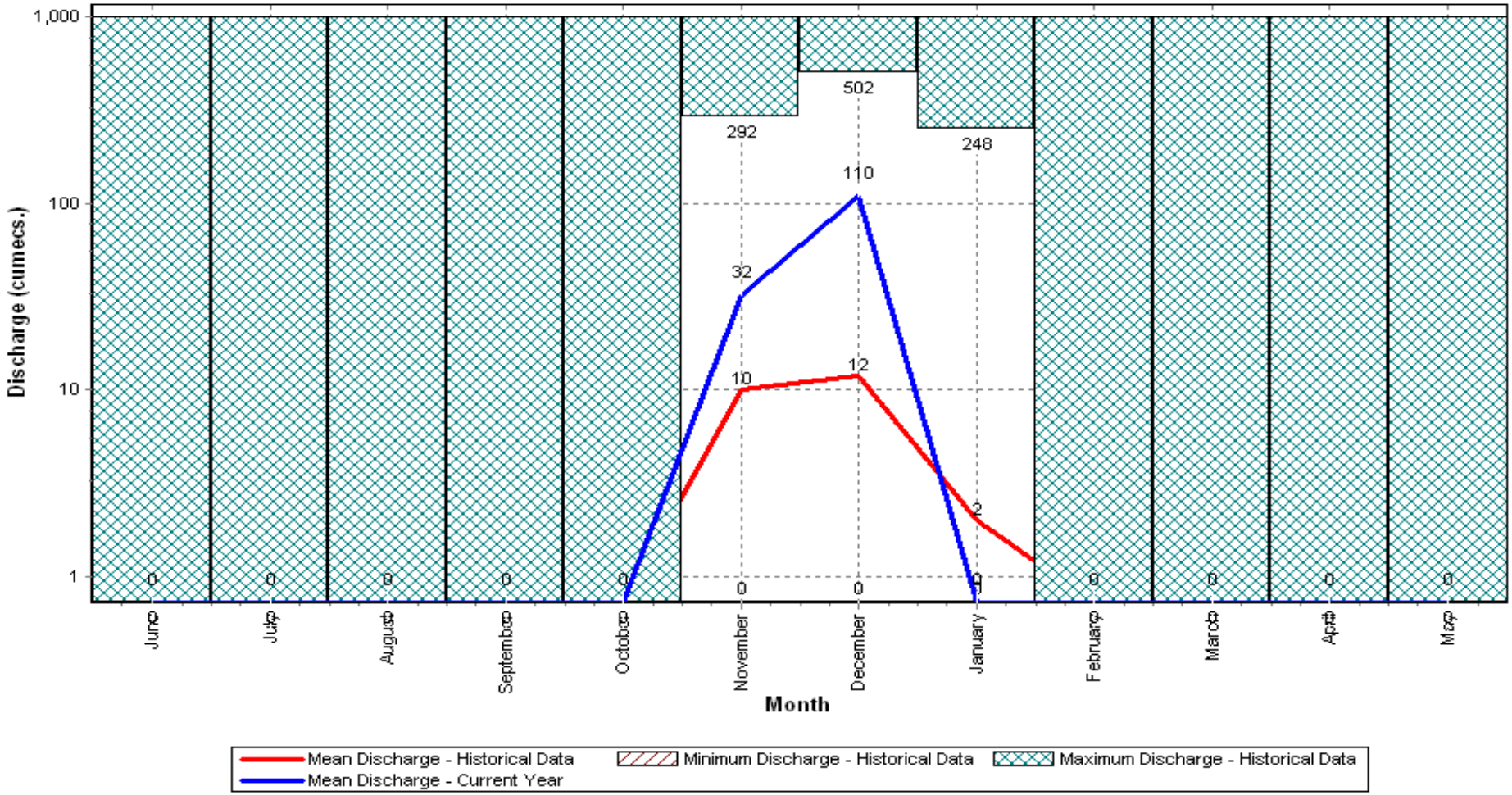
#:Discarded Discharge (values changed as per rating curve)

*Note:Missing values ignored while arriving at Annual Runoff*

**HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016**

**Station Name : Kumarapalayam ( CCR00F3)** | **Data considered : 2005-2016** | **Division : Hydrology Division, Chennai**

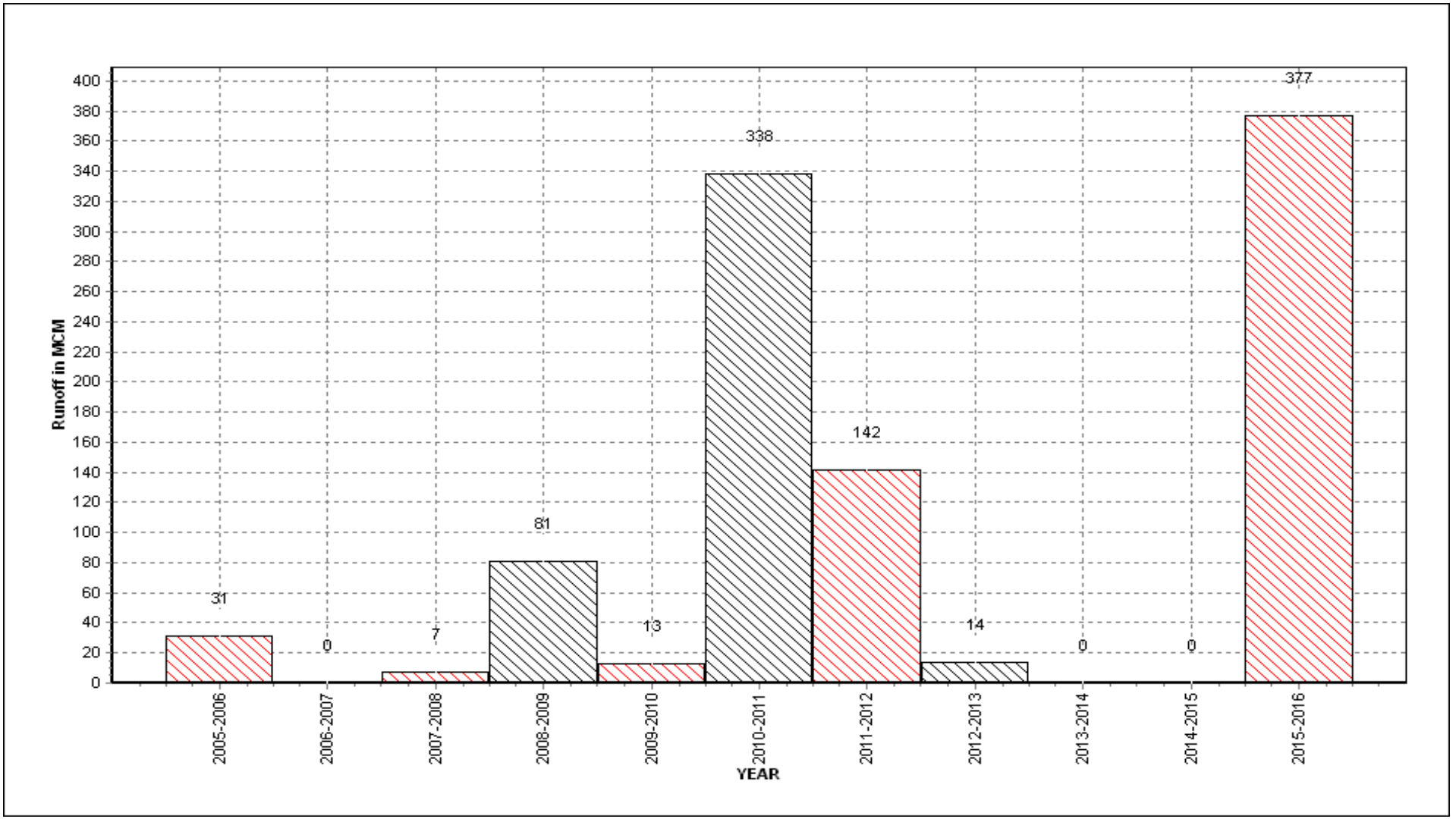
**Local River : Varahanadi** | **Sub-Division : Palar Ponnaiyar SD, Chennai**



**Annual Runoff Values for the period: 2005 - 2016**

**Station Name : Kumarapalayam ( CCR00F3)** **Division : Hydrology Division, Chennai**

**Local River : Varahanadi** **Sub-Division : Palar Ponnaiyar SD, Chennai**




*Note: Missing values have not been considered while arriving at Annual Runoff*

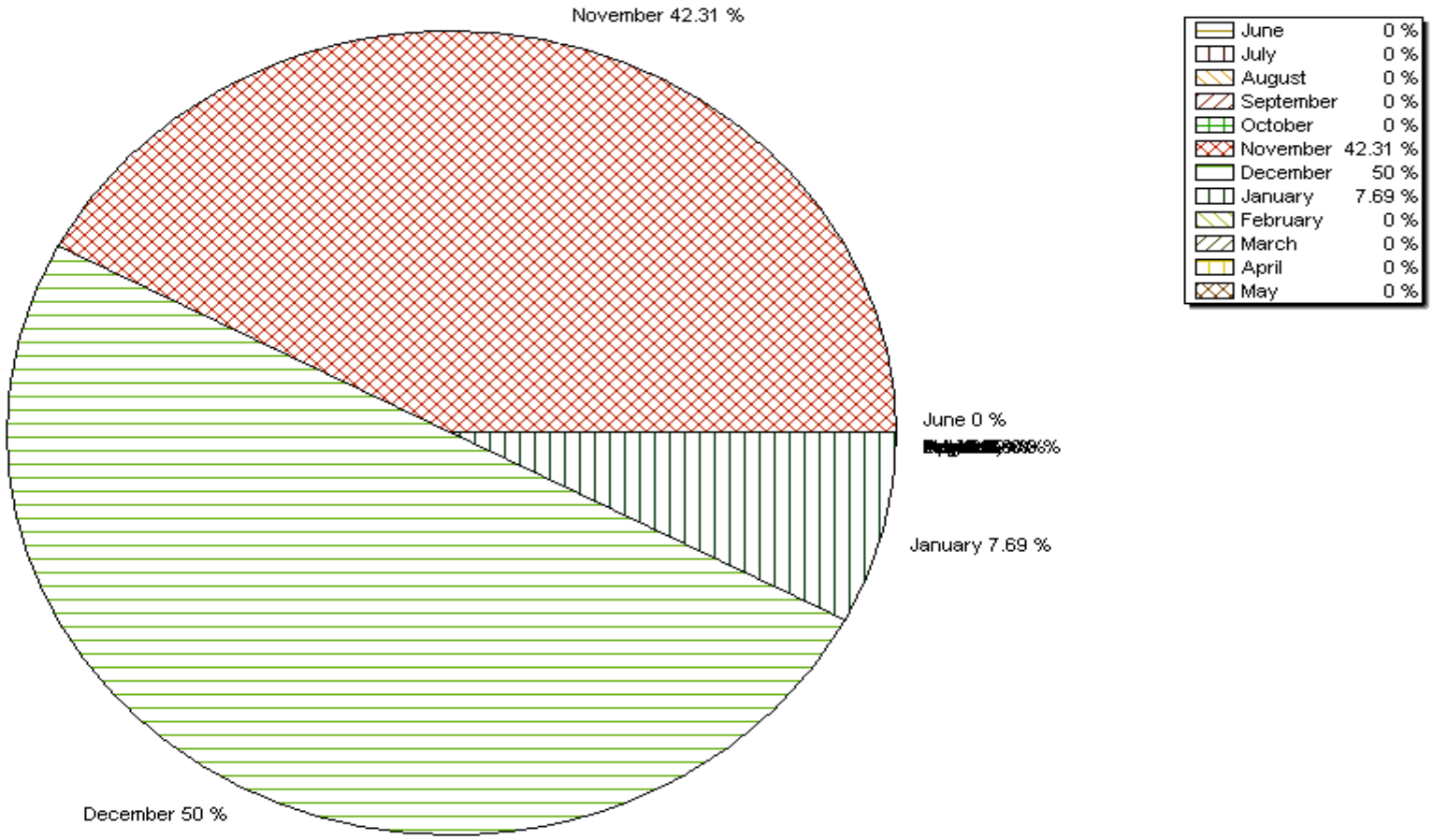
**Monthly Average Runoff based on period : 2005-2015**

**Station Name : Kumarapalayam ( CCR00F3)**

**Local River : Varahanadi**

**Division : Hydrology Division, Chennai**

**Sub-Division : Palar Ponnaiyar SD, Chennai**



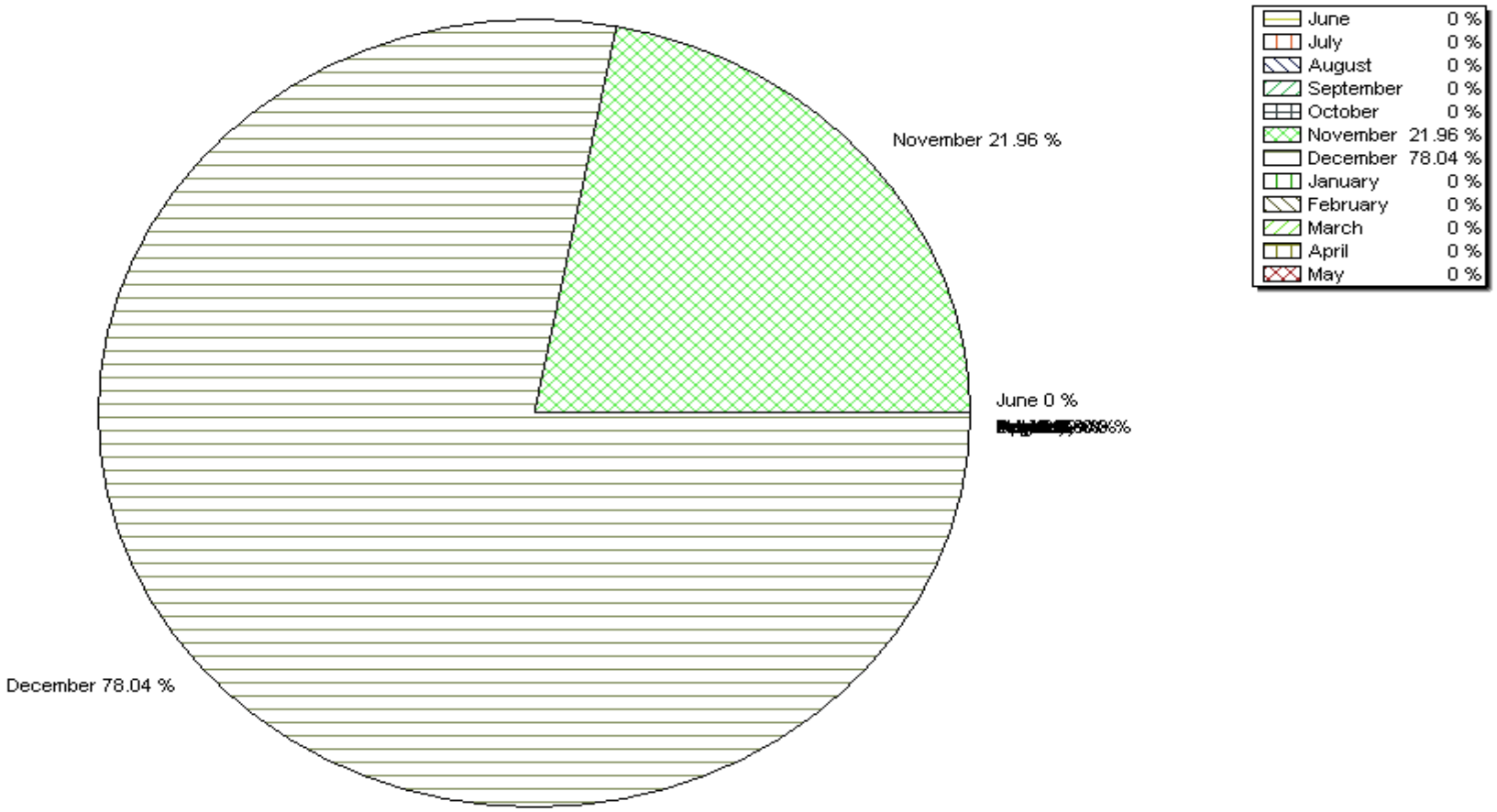
**Monthly Runoff for the Year : 2015-2016**

**Station Name : Kumarapalayam ( CCR00F3)**

**Local River : Varahanadi**

**Division : Hydrology Division, Chennai**

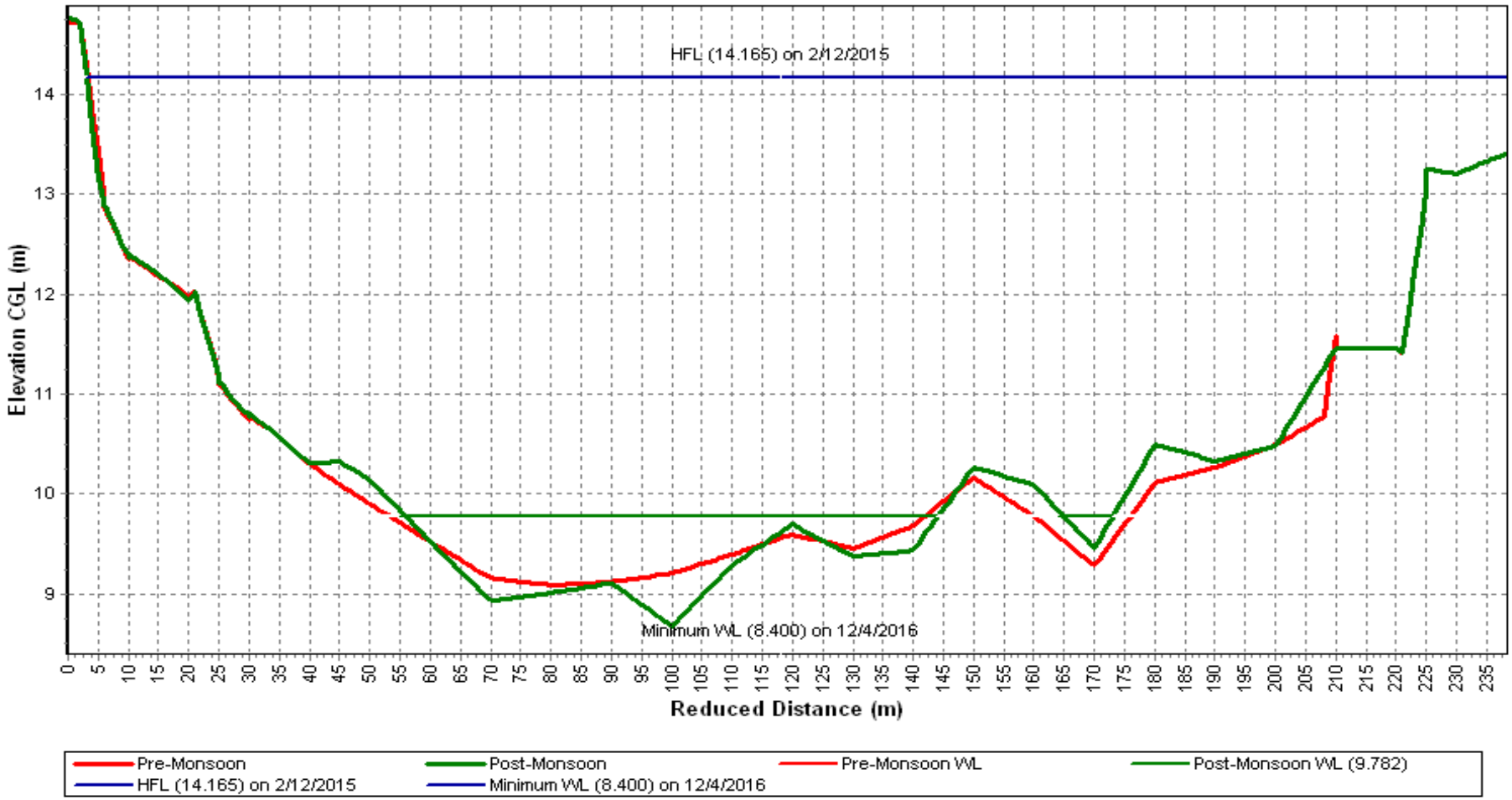
**Sub-Division : Palar Ponnaiyar SD, Chennai**



**Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2015-2016**

**Station Name : Kumarapalayam ( CCR00F3)** **Division : Hydrology Division, Chennai**

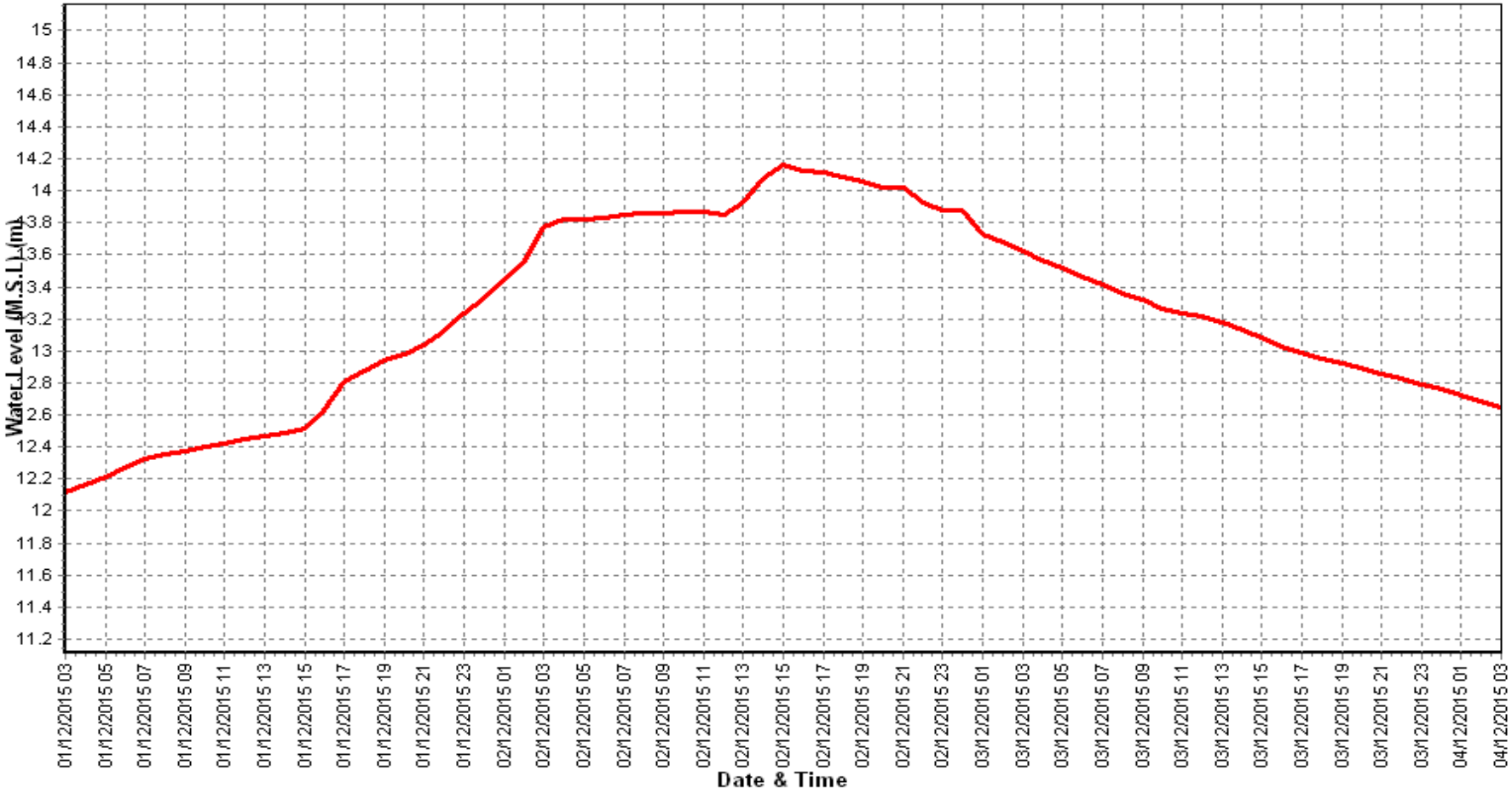
**Local River : Varahanadi** **Sub-Division : Palar Ponnaiyar SD, Chennai**



**Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2015-2016**

**Station Name : Kumarapalayam ( CCR00F3)** **Division : Hydrology Division, Chennai**

**Local River : Varahanadi** **Sub-Division : Palar Ponnaiyar SD, Chennai**



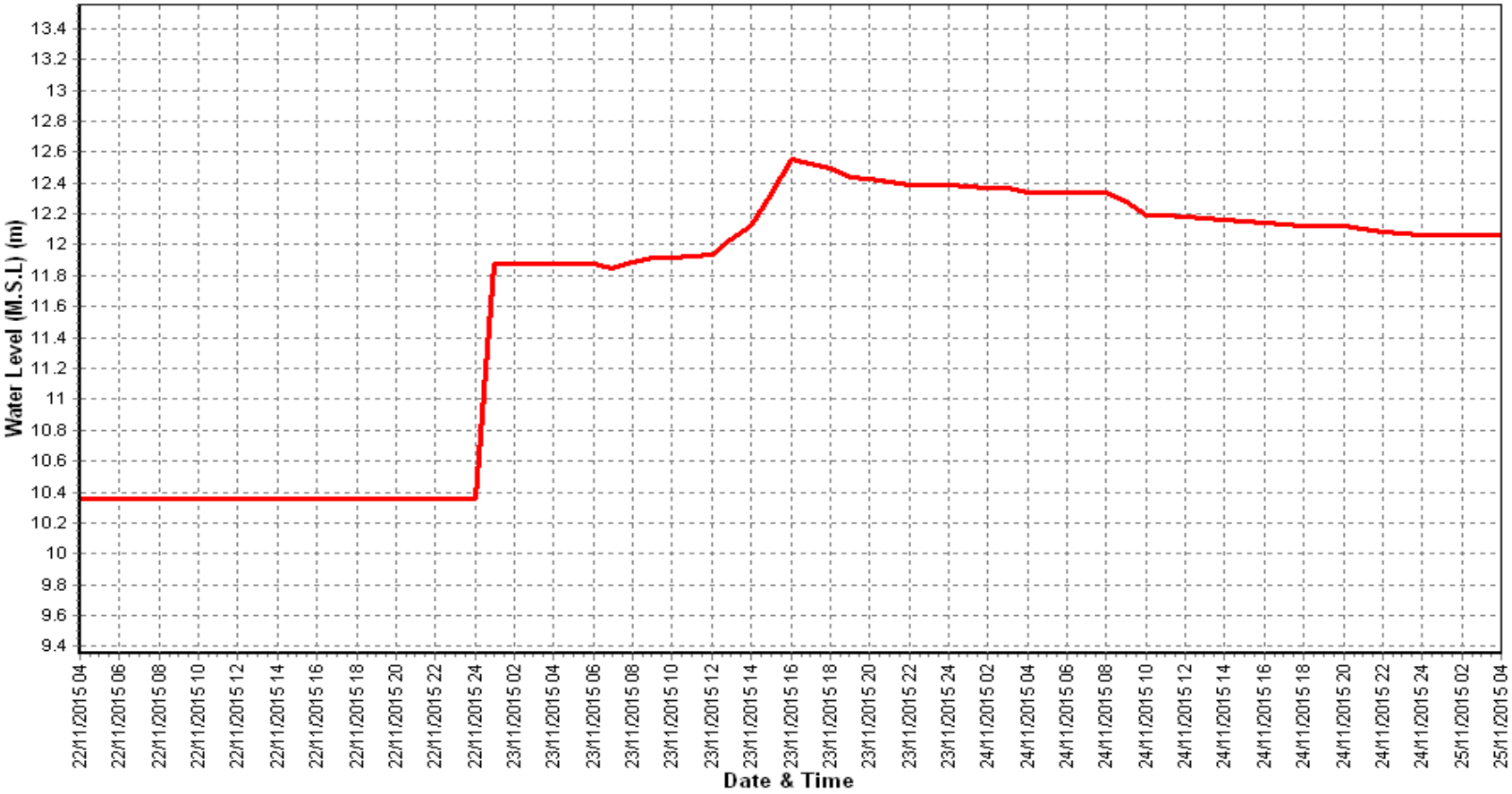

Time Span: 72 Hrs

**Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2015-2016**

**Station Name : Kumarapalayam ( CCR00F3)** **Division : Hydrology Division, Chennai**

**Local River : Varahanadi** **Sub-Division : Palar Ponnaiyar SD, Chennai**



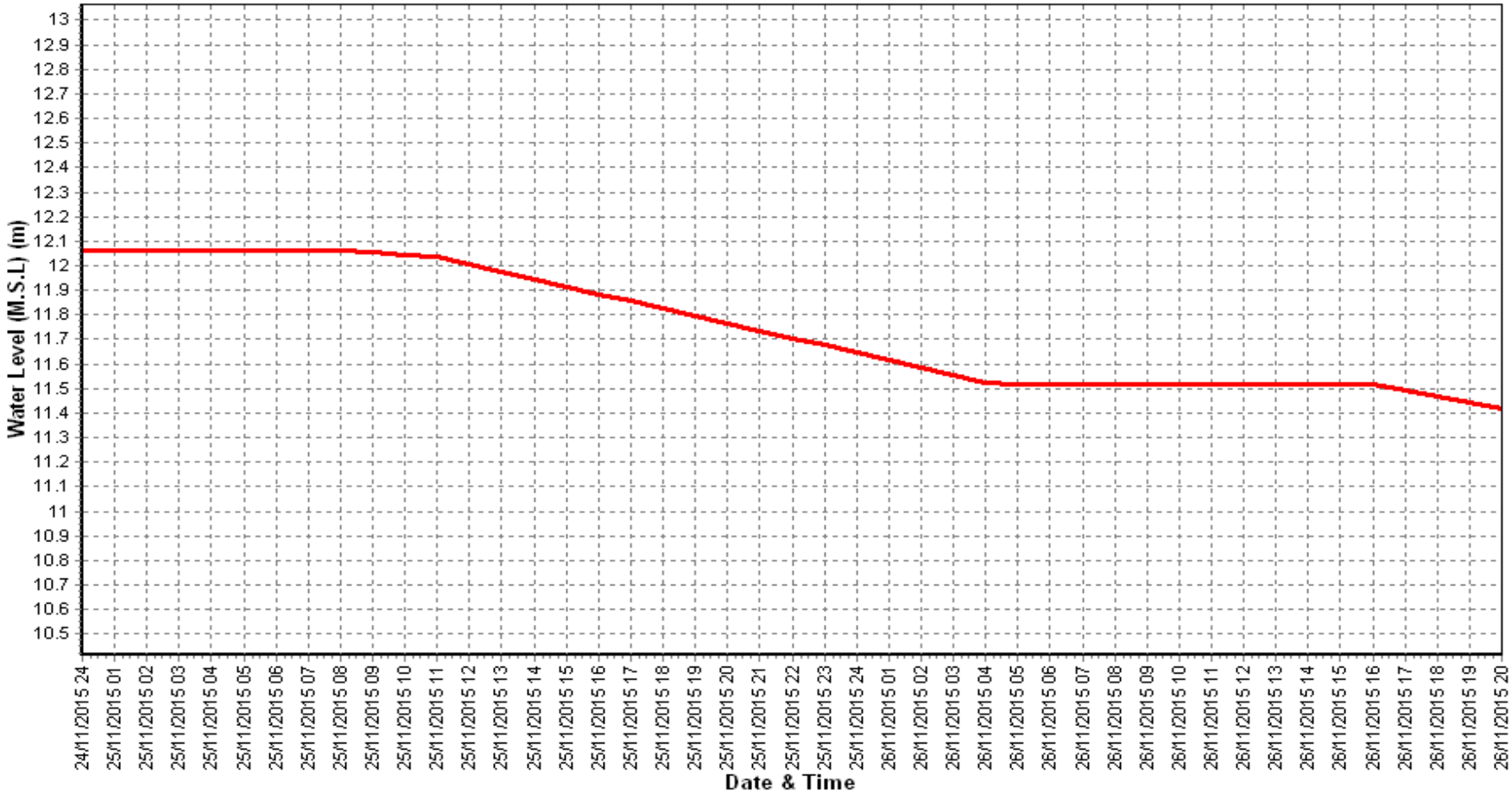



Time Span: 72 Hrs

**Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2015-2016**

**Station Name : Kumarapalayam ( CCR00F3)** **Division : Hydrology Division, Chennai**

**Local River : Varahanadi** **Sub-Division : Palar Ponnaiyar SD, Chennai**






Time Span: 72 Hrs

## HISTORY SHEET

**Water Year : 2015-2016**

| | | | | | |
|---|---|---|---|---|---|
| **Site** | : | **VILLUPURAM** | **Code** | : | **CP000C6** |
| State | : | Tamil Nadu | District | | Villupuram |
| Basin | : | EFR B Pennar-Cauvery | Independent River | : | Ponnaiyar |
| Tributary | : | - | Sub Tributary | : | |
| Sub-Sub Tributary | : | | Local River | : | Ponnaiyar |
| Division | : | Hydrology Division, Chennai | Sub-Division | : | Palar Ponnaiyar SD, Chennai |
| Drainage Area | : | 12900 Sq. Km. | Bank | : | Right |
| Latitude | : | 11°52'14" | Longitude | : | 79°27'34" |
| **Zero of Gauge (m)** | : | 43.000 (m.s.l)<br>42.000 (m.s.l) | 14/03/1971<br>01/06/1975 | - | 31/05/1975 |
| | | Opening Date | Closing Date | | |
| Gauge | : | 14/03/1971 | | | |
| Discharge | : | 09/10/1972 | | | |
| Sediment | : | | | | |
| Water Quality | : | 01/01/1987 | | | |

**Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)**

| | Maximum | | | Minimum | | |
|---|---|---|---|---|---|---|
| **Year** | **Q (cumecs)** | **WL (m)** | **Date** | **Q (cumecs)** | **WL (m)** | **Date** |
| 1973-1974 | 0.000 | Dry Bed | 01/06/1973 | 0.000 | Dry Bed | 01/06/1973 |
| 1974-1975 | 65.90 | 43.675 | 30/10/1974 | 0.000 | Dry Bed | 01/06/1974 |
| 1975-1976 | 485.0 | 44.400 | 06/11/1975 | 0.000 | Dry Bed | 01/06/1975 |
| 1976-1977 | 90.00 | 43.635 | 13/11/1976 | 0.000 | Dry Bed | 01/06/1976 |
| 1977-1978 | 1530 | 45.700 | 13/11/1977 | 0.000 | Dry Bed | 01/06/1977 |
| 1978-1979 | 365.0 | 44.200 | 04/11/1978 | 0.000 | Dry Bed | 01/06/1978 |
| 1979-1980 | 1619 | 45.353 | 19/11/1979 | 0.000 | Dry Bed | 01/06/1979 |
| 1980-1981 | 0.000 | Dry Bed | 01/06/1980 | 0.000 | Dry Bed | 01/06/1980 |
| 1981-1982 | 459.2 | 44.260 | 07/10/1981 | 0.000 | Dry Bed | 01/06/1981 |
| 1982-1983 | 0.000 | Dry Bed | 01/06/1982 | 0.000 | Dry Bed | 01/06/1982 |
| 1983-1984 | 373.2 | 44.123 | 26/12/1983 | 0.000 | Dry Bed | 01/06/1983 |
| 1984-1985 | 123.9 | 43.840 | 17/11/1984 | 0.000 | Dry Bed | 01/06/1984 |
| 1985-1986 | 121.3 | 43.856 | 12/11/1985 | 0.000 | Dry Bed | 01/06/1985 |
| 1986-1987 | 31.80 | 43.665 | 13/10/1986 | 0.000 | Dry Bed | 01/06/1986 |
| 1987-1988 | 83.64 | 43.843 | 27/10/1987 | 0.000 | Dry Bed | 01/06/1987 |
| 1988-1989 | 71.40 | 43.770 | 12/10/1988 | 0.000 | Dry Bed | 01/06/1988 |
| 1989-1990 | 44.07 | 43.725 | 26/10/1989 | 0.000 | Dry Bed | 01/06/1989 |
| 1990-1991 | 0.000 | Dry Bed | 01/06/1990 | 0.000 | Dry Bed | 01/06/1990 |

Q : Observed / Computed Discharge
WL : Corresponding Water Level(m.s.l)

**Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)**

| | Maximum | | | Minimum | | |
|---|---|---|---|---|---|---|
| **Year** | **Q (cumecs)** | **WL (m)** | **Date** | **Q (cumecs)** | **WL (m)** | **Date** |
| 1991-1992 | 2039 | 45.434 | 17/11/1991 | 0.000 | Dry Bed | 01/06/1991 |
| 1992-1993 | 519.3 | 44.300 | 17/11/1992 | 0.000 | Dry Bed | 01/06/1992 |
| 1993-1994 | 1214 | 44.947 | 05/12/1993 | 0.000 | Dry Bed | 01/06/1993 |
| 1994-1995 | 386.6 | 44.288 | 06/11/1994 | 0.000 | Dry Bed | 01/06/1994 |
| 1995-1996 | 6.530 | 43.370 | 30/09/1995 | 0.000 | Dry Bed | 01/06/1995 |
| 1996-1997 | 2305 | 45.570 | 11/12/1996 | 0.000 | Dry Bed | 01/06/1996 |
| 1997-1998 | 572.0 | 44.350 | 08/12/1997 | 0.000 | Dry Bed | 01/06/1997 |
| 1998-1999 | 597.9 | 44.500 | 11/12/1998 | 0.000 | Dry Bed | 01/06/1998 |
| 1999-2000 | 166.5 | 43.820 | 31/10/1999 | 0.000 | Dry Bed | 01/10/1999 |
| 2000-2001 | 275.0 | 43.960 | 25/10/2000 | 0.000 | Dry Bed | 01/06/2000 |
| 2001-2002 | 173.2 | 43.820 | 15/10/2001 | 0.000 | Dry Bed | 01/06/2001 |
| 2002-2003 | 0.000 | Dry Bed | 01/06/2002 | 0.000 | Dry Bed | 01/06/2002 |
| 2003-2004 | 0.000 | Dry Bed | 01/06/2003 | 0.000 | Dry Bed | 01/06/2003 |
| 2004-2005 | 333.4 | 44.153 | 09/11/2004 | 0.000 | Dry Bed | 01/06/2004 |
| 2005-2006 | 2636 | 45.660 | 25/11/2005 | 0.000 | Dry Bed | 01/06/2005 |
| 2006-2007 | 54.00 | 43.510 | 19/11/2006 | 0.000 | Dry Bed | 01/06/2006 |
| 2007-2008 | 848.4 | 44.250 | 20/12/2007 | 0.000 | Dry Bed | 01/06/2007 |
| 2008-2009 | 330.7 | 44.280 | 29/11/2008 | 0.000 | Dry Bed | 01/06/2008 |
| 2009-2010 | 25.91 | 43.155 | 16/11/2009 | 0.000 | Dry Bed | 01/06/2009 |
| 2010-2011 | 299.4 | 43.700 | 28/11/2010 | 0.000 | Dry Bed | 01/06/2010 |
| 2011-2012 | 143.0 | 43.300 | 01/01/2012 | 0.000 | Dry Bed | 01/06/2011 |
| 2012-2013 | 61.53 | 43.110 | 01/11/2012 | 0.000 | Dry Bed | 01/06/2012 |
| 2013-2014 | 0.000 | Dry Bed | 01/06/2013 | 0.000 | Dry Bed | 01/06/2013 |
| 2014-2015 | 0.000 | Dry Bed | 01/06/2014 | 0.000 | Dry Bed | 01/06/2014 |

Q : Observed / Computed Discharge
WL : Corresponding Water Level(m.s.l)

## Stage-Discharge Data for the period 2015 - 2016

**Station Name : VILLUPURAM ( CP000C6)** **Division : Hydrology Division, Chennai**

**Local River : Ponnaiyar** **Sub-Division : Palar Ponnaiyar SD, Chennai**

| Day | Jun | | Jul | | Aug | | Sep | | Oct | | Nov | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | W.L | Q | W.L | Q | W.L | Q | W.L | Q | W.L | Q | W.L | Q |
| 1 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 2 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 3 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 4 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 5 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 6 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 7 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 8 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 9 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 10 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 11 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 40.000 | 0.000 |
| 12 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 40.015 | 0.000 |
| 13 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 40.150 | 0.000 |
| 14 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 40.250 | 0.000 |
| 15 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 40.190 | 0.000 |
| 16 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 40.020 | 0.000 |
| 17 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 39.460 | 0.000 |
| 18 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 39.950 | 0.000 |
| 19 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 39.990 | 13.04 |
| 20 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 39.910 | 11.20 |
| 21 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 39.900 | 10.96 |
| 22 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 40.040 | 17.03 # |
| 23 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 40.470 | 49.43 # |
| 24 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 41.500 | 203.9 |
| 25 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 41.400 | 168.8 |
| 26 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 41.300 | 159.1 |
| 27 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 41.180 | 105.3 |
| 28 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 41.400 | 196.6 |
| 29 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 41.010 | 110.6 # |
| 30 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 41.150 | 121.2 |
| 31 | | | | 0.000 | | 0.000 | | | | 0.000 * | | |
| **Ten-Daily Mean** | | | | | | | | | | | | |
| I Ten-Daily | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| II Ten-Daily | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 39.994 | 2.424 |
| III Ten-Daily | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 40.935 | 114.3 |
| **Monthly** | | | | | | | | | | | | |
| Min. | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 39.460 | 0.000 |
| Max. | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 41.500 | 203.9 |
| Mean | | 0 | | 0 | | 0 | | 0 | | 0 | 40.464 | 38.9 |

**Annual Runoff in MCM = 566 Annual Runoff in mm = 44**

**Peak Observed Discharge = 527.1 cumecs on 08/12/2015 Corres. Water Level :42.08 m**

**Lowest Observed Discharge = 0.000 cumecs on 01/06/2015**

Q: Observed/Computed Discharge in cumecs

WL:Corresponding Mean Water Level(m.s.l) in m

*:Computed Discharge

#:Discarded Discharge (values changed as per rating curve)

*Note:Missing values ignored while arriving at Annual Runoff*

## Stage-Discharge Data for the period 2015 - 2016

**Station Name : VILLUPURAM ( CP000C6)** **Division : Hydrology Division, Chennai**

**Local River : Ponnaiyar** **Sub-Division : Palar Ponnaiyar SD, Chennai**

| Day | Dec | | Jan | | Feb | | Mar | | Apr | | May | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | W.L | Q | WL | Q | WL | Q | WL | Q | WL | Q | WL | Q |
| 1 | 41.500 | 262.8 | 40.050 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 2 | 41.950 | 438.1 | 40.000 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 3 | 42.000 | 399.2 | 39.930 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 4 | 41.850 | 438.4 # | 39.900 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 5 | 41.780 | 412.5 # | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 6 | 41.760 | 405.2 # | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 7 | 41.800 | 419.8 # | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 8 | 42.080 | 527.1 # | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 9 | 41.850 | 438.4 # | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 10 | 41.780 | 412.5 # | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 11 | 41.950 | 476.3 # | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 12 | 40.830 | 148.7 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 13 | 40.800 | 137.0 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 14 | 40.600 | 69.05 # | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 15 | 40.600 | 69.05 # | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 16 | 40.500 | 59.79 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 17 | 40.450 | 45.46 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 18 | 40.430 | 30.15 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 19 | 40.400 | 37.69 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 20 | 40.400 | 32.81 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 21 | 40.380 | 31.67 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 22 | 40.300 | 22.11 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 23 | 40.300 | 20.26 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 24 | 40.270 | 15.11 * | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 25 | 40.250 | 12.78 * | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 26 | 40.220 | 8.045 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 27 | 40.180 | 5.738 * | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 28 | 40.130 | 1.652 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 29 | 40.130 | 2.016 # | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 30 | 40.130 | 2.016 # | | 0.000 | | | | 0.000 | | 0.000 | | 0.000 |
| 31 | 40.090 | 0.000 | | 0.000 | | | | 0.000 | | | | 0.000 |
| **Ten-Daily Mean** | | | | | | | | | | | | |
| I Ten-Daily | 41.835 | 415.4 | 39.970 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| II Ten-Daily | 40.696 | 110.6 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| III Ten-Daily | 40.216 | 11.04 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| **Monthly** | | | | | | | | | | | | |
| Min. | 40.090 | 0.000 | 39.900 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| Max. | 42.080 | 527.1 | 40.050 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| Mean | 40.893 | 173.6 | 39.970 | 0 | | 0 | | 0 | | 0 | | 0 |

**Peak Computed Discharge = 15.11 cumecs on 24/12/2015** **Corres. Water Level :40.27 m**

**Lowest Computed Discharge = 0.000 cumecs on 31/10/2015**

Q: Observed/Computed Discharge in cumecs

WL:Corresponding Mean Water Level(m.s.l) in m

*:Computed Discharge

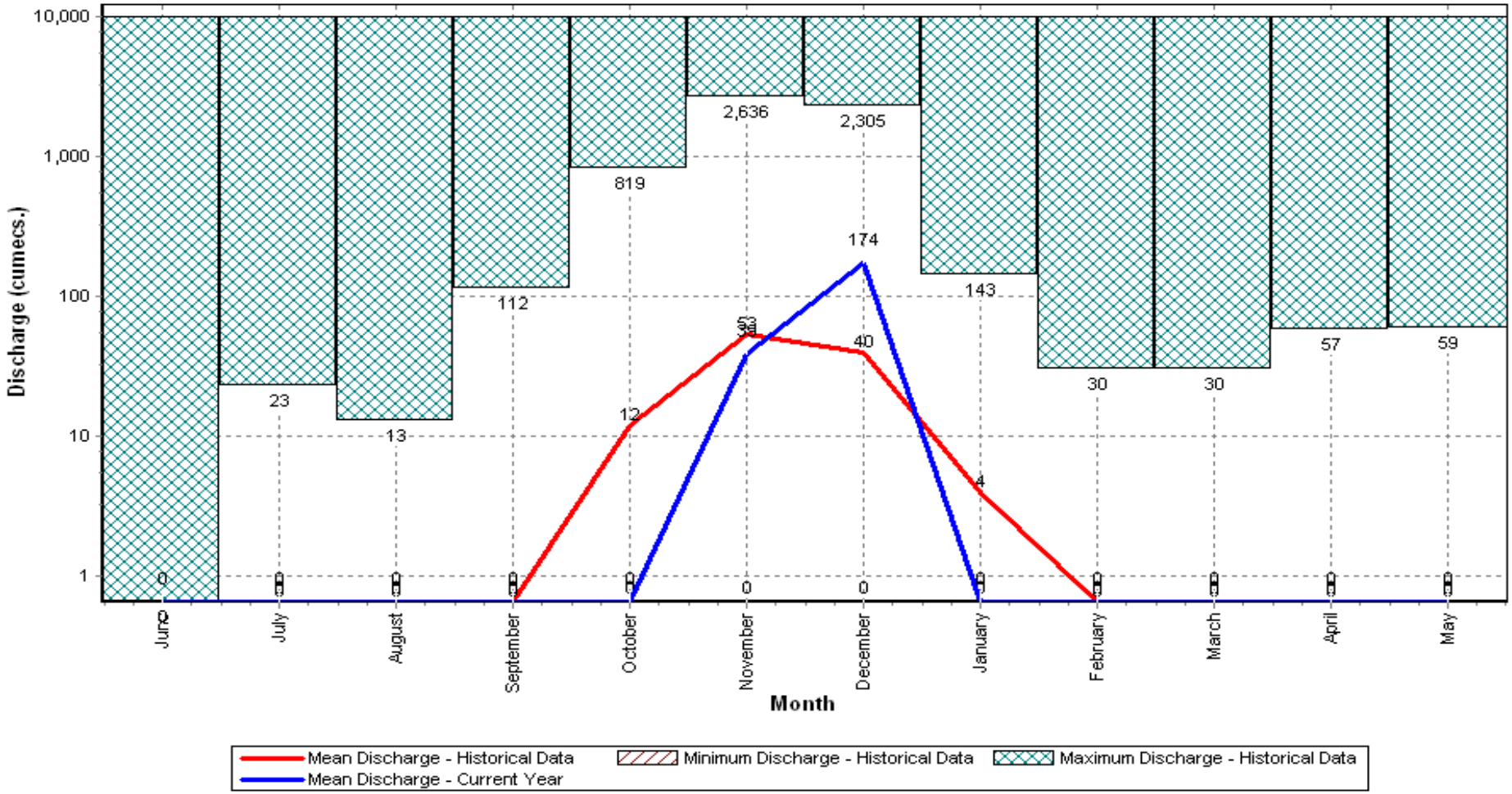
#:Discarded Discharge (values changed as per rating curve)

*Note:Missing values ignored while arriving at Annual Runoff*

**HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016**

**Station Name : VILLUPURAM ( CP000C6)** | **Data considered : 1973-2016** | **Division : Hydrology Division, Chennai**

**Local River : Ponnaiyar** | **Sub-Division : Palar Ponnaiyar SD, Chennai**



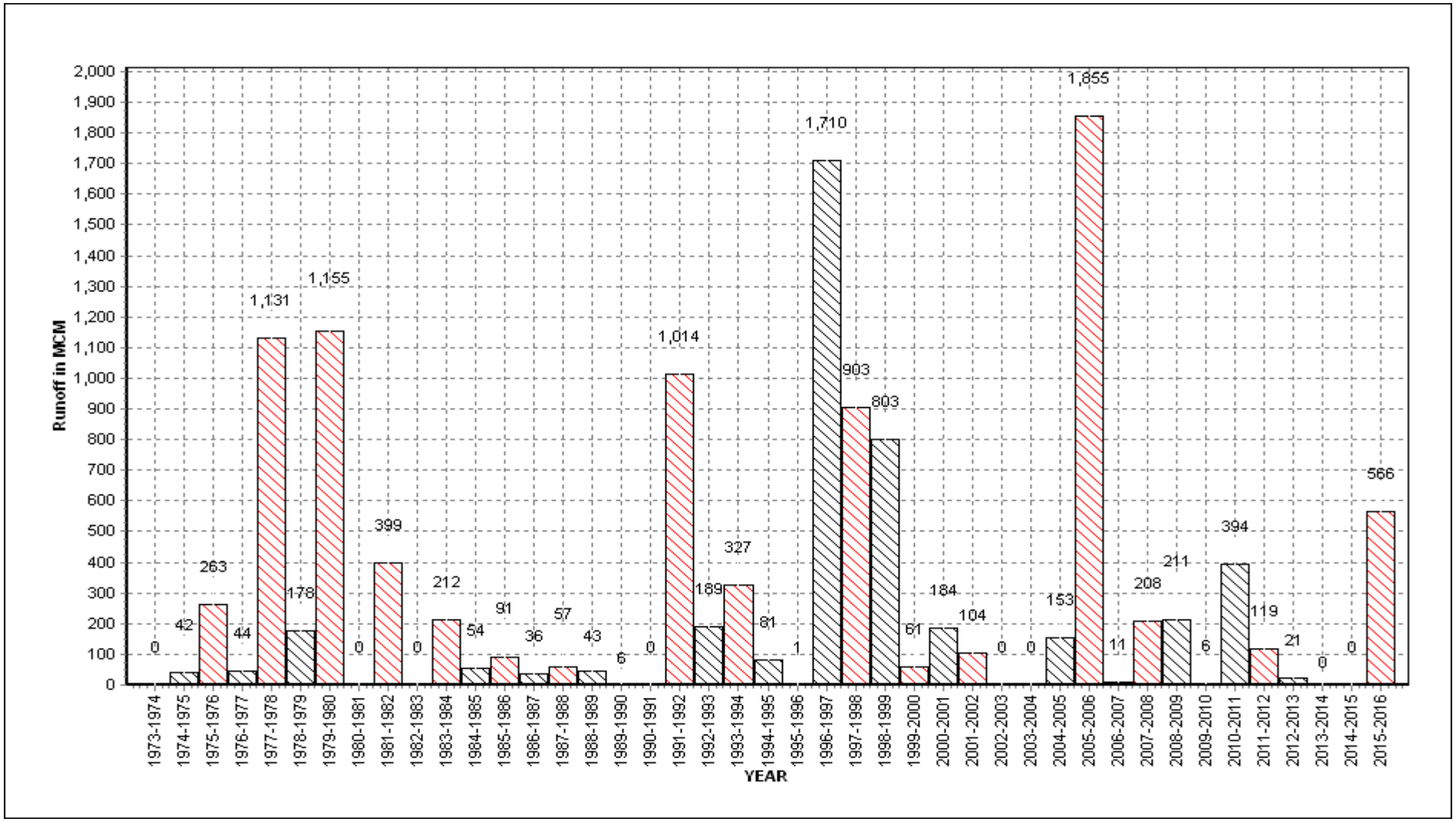
**Annual Runoff Values for the period: 1973 - 2016**

**Station Name : VILLUPURAM ( CP000C6)**

**Local River : Ponnaiyar**

**Division : Hydrology Division, Chennai**

**Sub-Division : Palar Ponnaiyar SD, Chennai**




*Note: Missing values have not been considered while arriving at Annual Runoff*

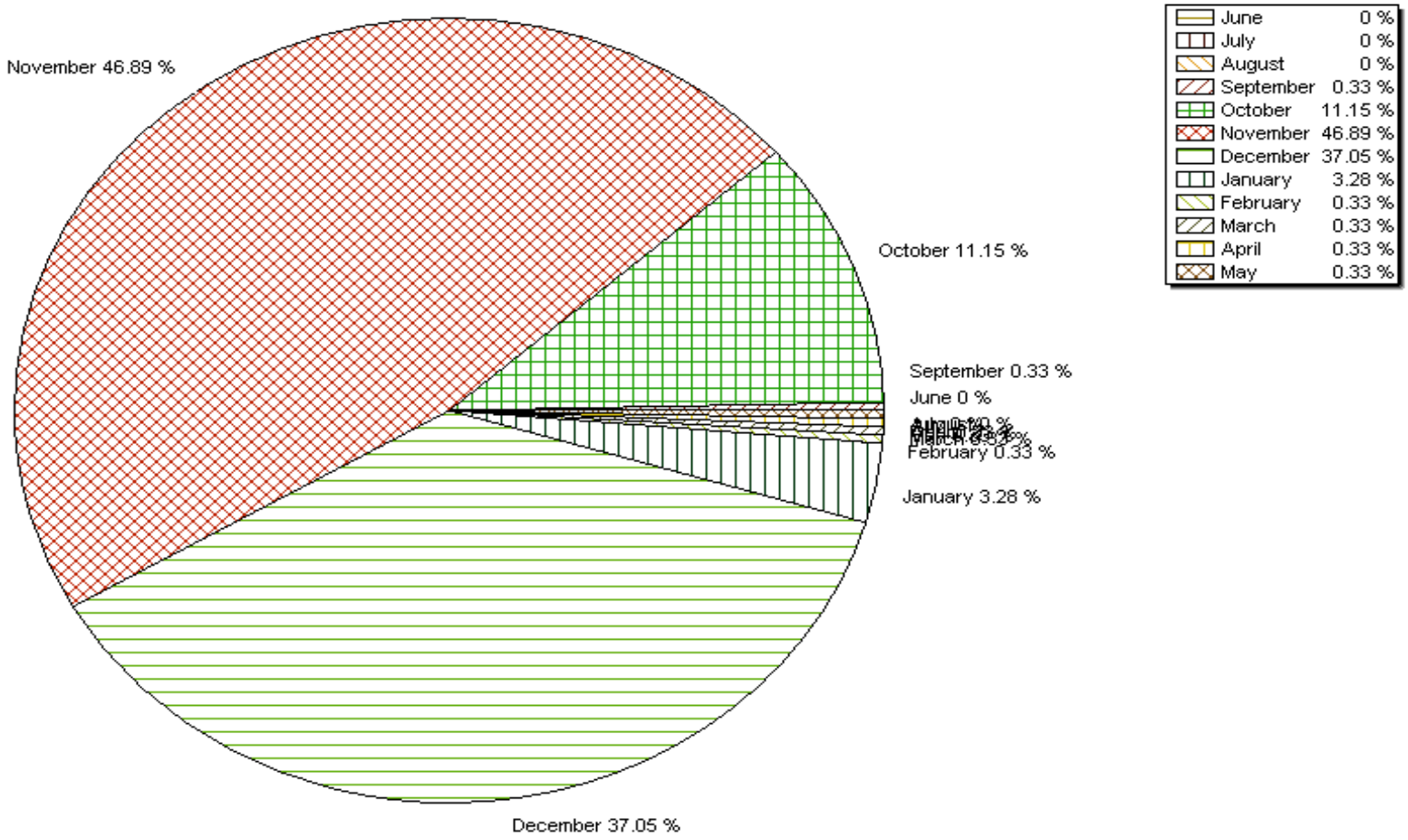
**Monthly Average Runoff based on period : 1973-2015**

**Station Name : VILLUPURAM ( CP000C6)**

**Local River : Ponnaiyar**

**Division : Hydrology Division, Chennai**

**Sub-Division : Palar Ponnaiyar SD, Chennai**



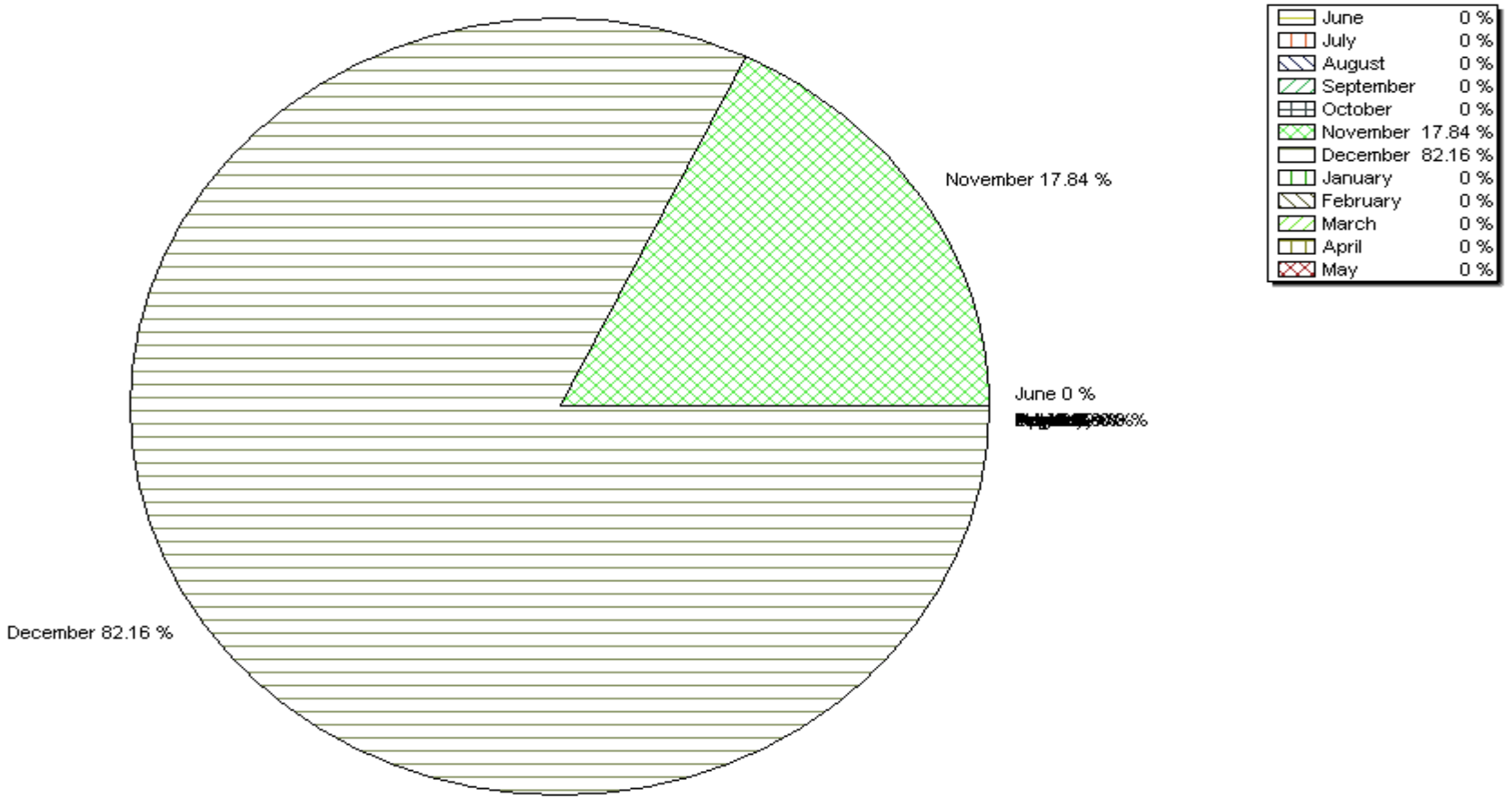
**Monthly Runoff for the Year : 2015-2016**

**Station Name : VILLUPURAM ( CP000C6)**

**Local River : Ponnaiyar**

**Division : Hydrology Division, Chennai**

**Sub-Division : Palar Ponnaiyar SD, Chennai**



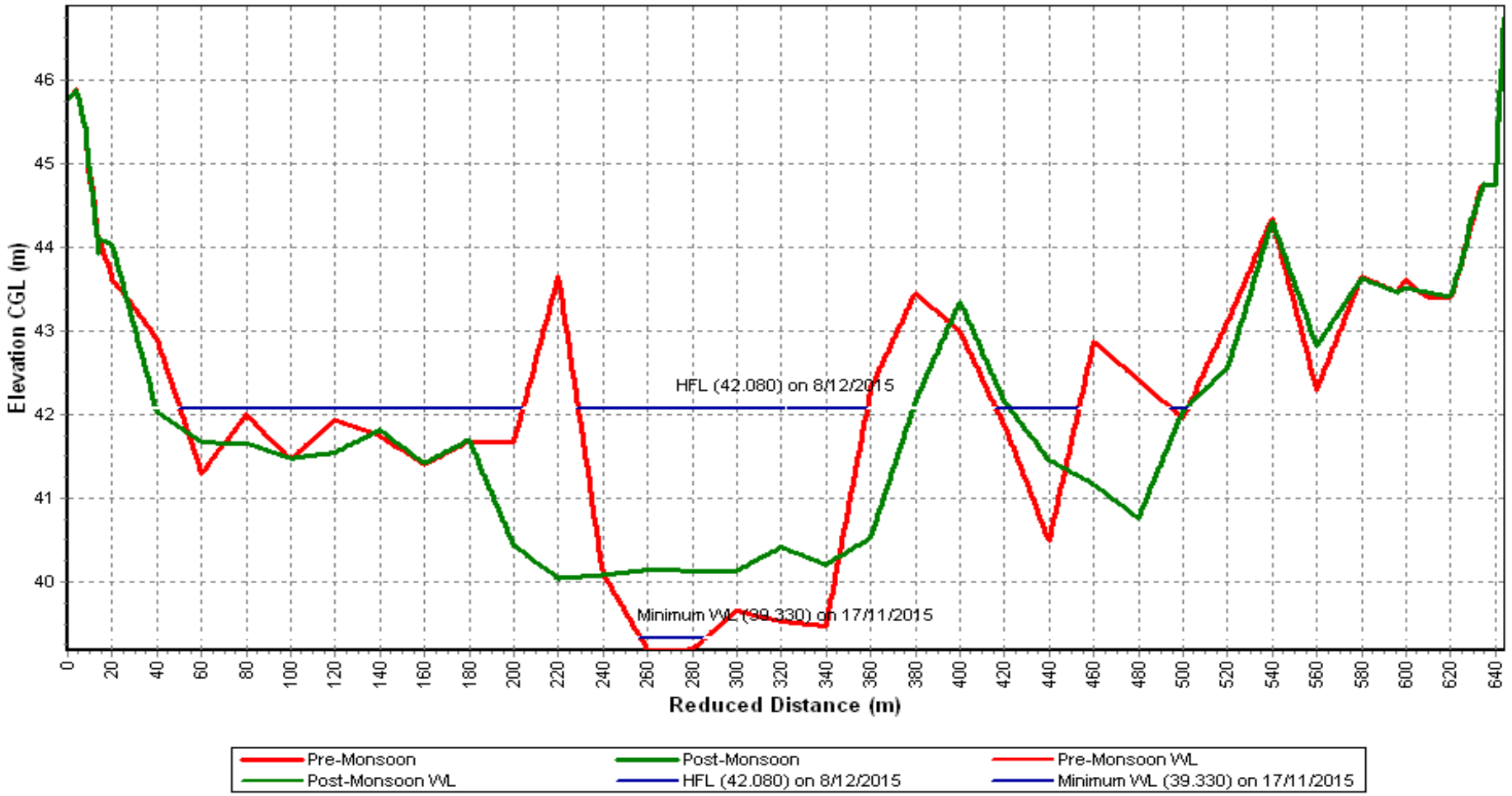
**Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2015-2016**

**Station Name : VILLUPURAM ( CP000C6)**

**Division : Hydrology Division, Chennai**

**Local River : Ponnaiyar**

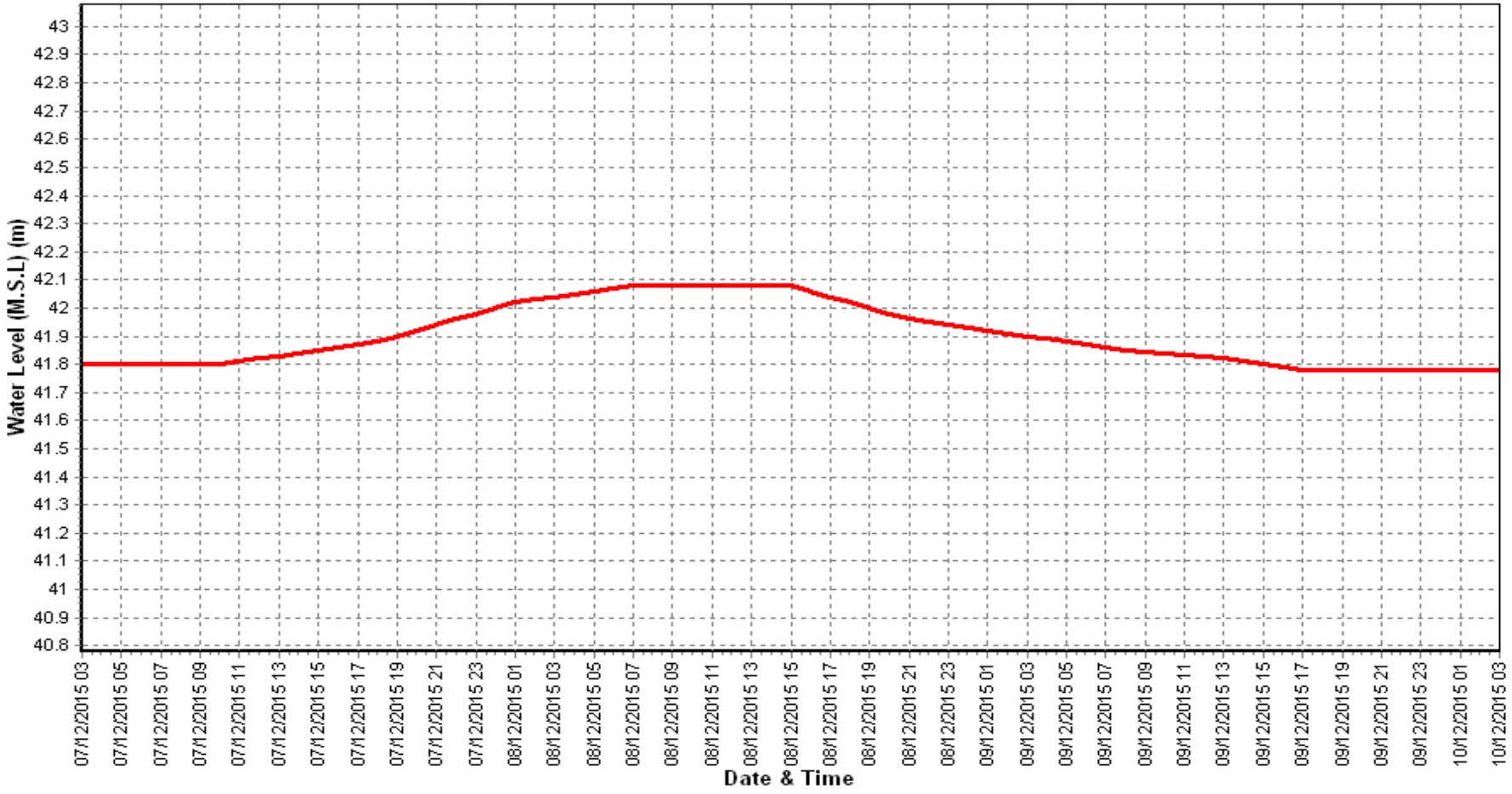
**Sub-Division : Palar Ponnaiyar SD, Chennai**



**Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2015-2016**

**Station Name : VILLUPURAM ( CP000C6)** **Division : Hydrology Division, Chennai**

**Local River : Ponnaiyar** **Sub-Division : Palar Ponnaiyar SD, Chennai**



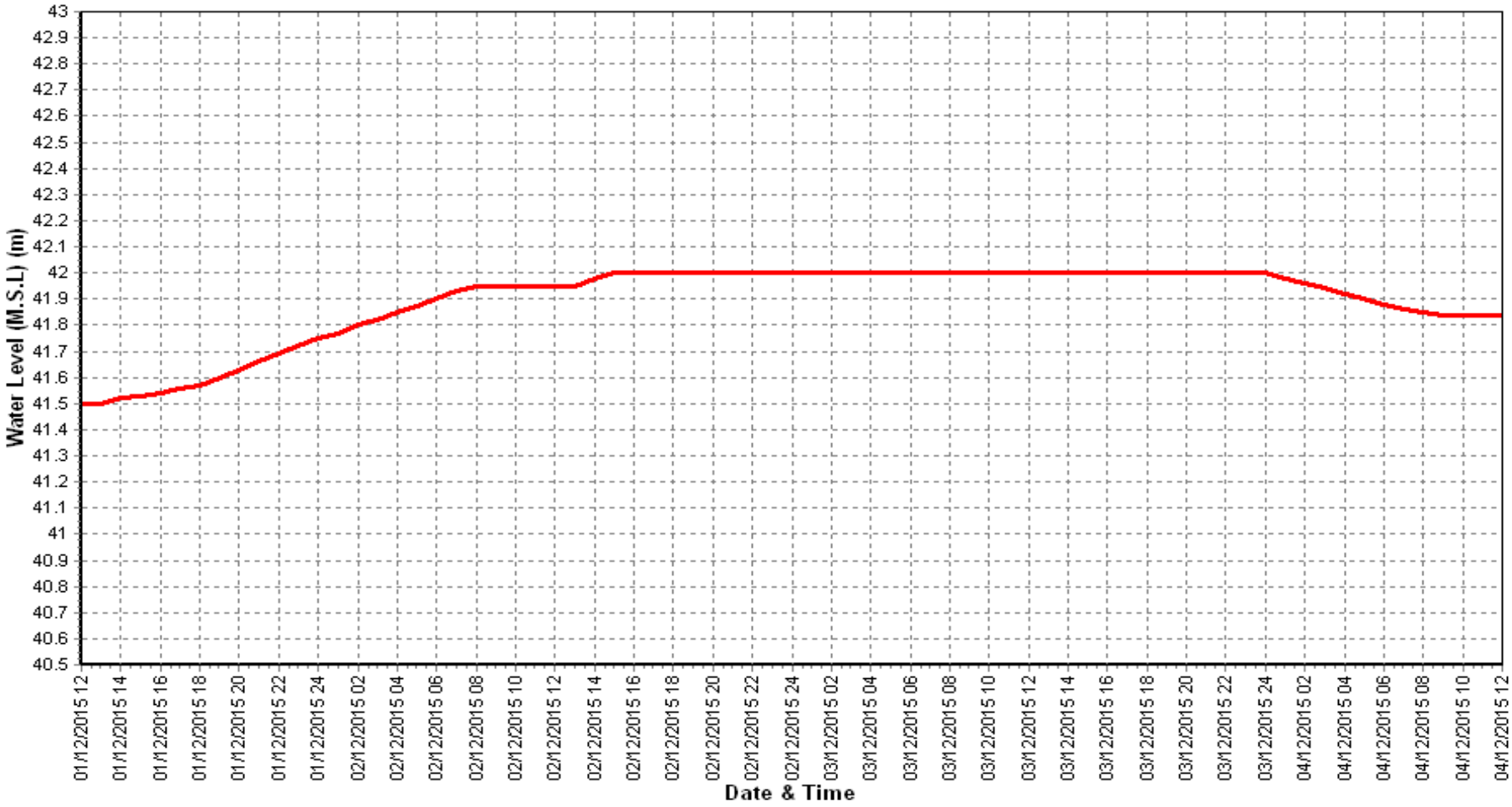



Time Span: 72 Hrs

**Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2015-2016**

**Station Name : VILLUPURAM ( CP000C6)** **Division : Hydrology Division, Chennai**

**Local River : Ponnaiyar** **Sub-Division : Palar Ponnaiyar SD, Chennai**




Time Span: 72 Hrs

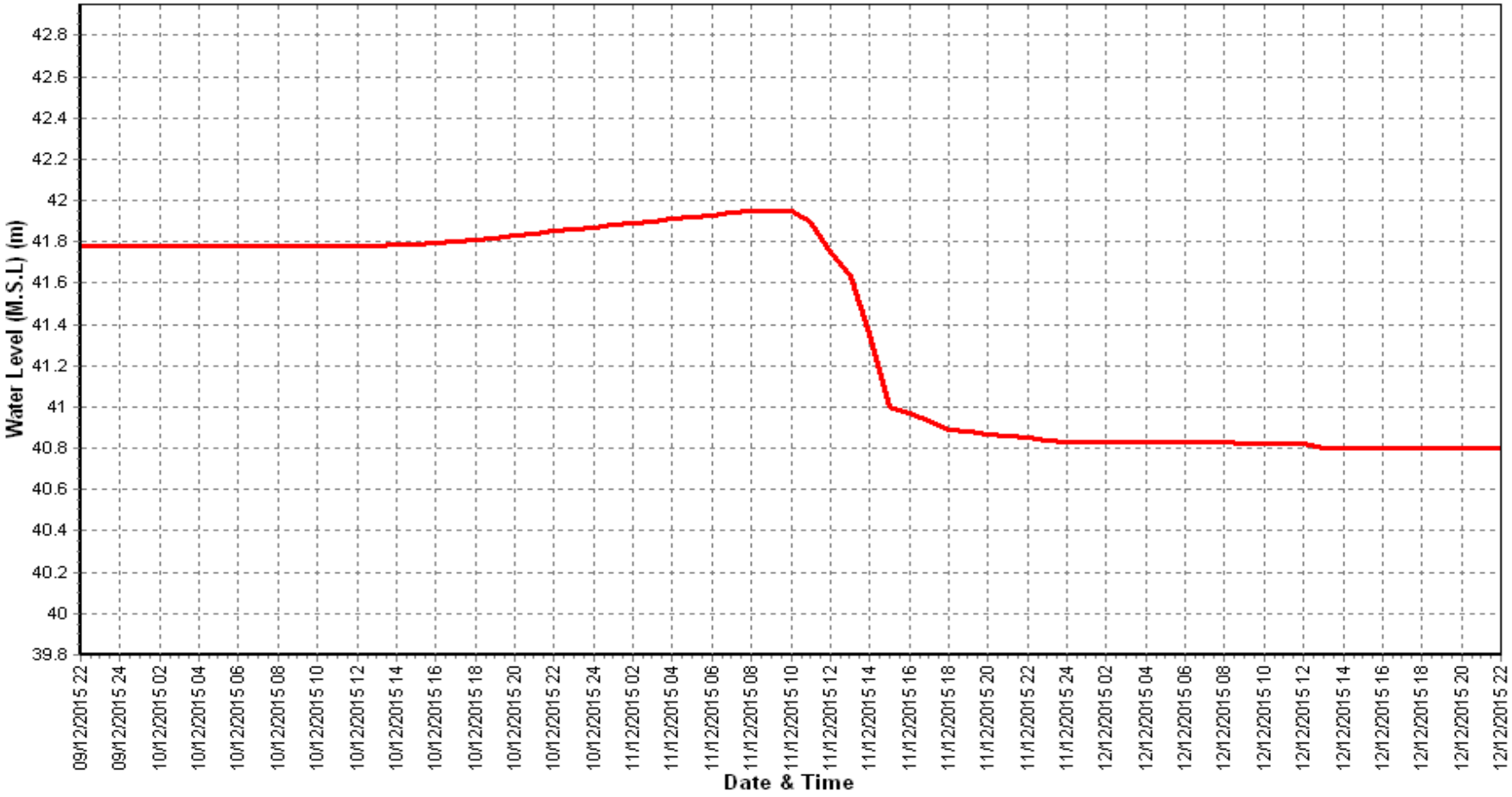
**Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2015-2016**

**Station Name : VILLUPURAM ( CP000C6)**

**Division : Hydrology Division, Chennai**

**Local River : Ponnaiyar**

**Sub-Division : Palar Ponnaiyar SD, Chennai**




Time Span: 72 Hrs

## HISTORY SHEET

**Water Year : 2015-2016**

| | | | | | |
|---|---|---|---|---|---|
| **Site** | : **VAZHAVACHANUR** | | **Code** | : **CP000H2** | |
| State | : Tamil Nadu | | District | | Thiruvannamalai |
| Basin | : EFR B Pennar-Cauvery | | Independent River | : | Ponnaiyar |
| Tributary | : - | | Sub Tributary | : | |
| Sub-Sub Tributary | : | | Local River | : | Ponnaiyar |
| Division | : Hydrology Division, Chennai | | Sub-Division | : | Palar Ponnaiyar SD, Chennai |
| Drainage Area | : 10780 Sq. Km. | | Bank | : | Left |
| Latitude | : 12°03'57" | | Longitude | : | 78°58'41" |
| **Zero of Gauge (m)** | : 131.000 (m.s.l)<br>133.000 (m.s.l) | | 01/06/1978<br>01/06/1985 | - | 31/05/1985 |
| | Opening Date | | Closing Date | | |
| Gauge | : 01/06/1978 | | | | |
| Discharge | : 21/07/1978 | | | | |
| Sediment | : 19/10/2001 | | | | |
| Water Quality | : 01/08/1978 | | | | |

**Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)**

| | Maximum | | | Minimum | | |
|---|---|---|---|---|---|---|
| **Year** | **Q (cumecs)** | **WL (m)** | **Date** | **Q (cumecs)** | **WL (m)** | **Date** |
| 1978-1979 | 140.9 | 133.400 | 08/11/1978 | 0.000 | 131.960 | 24/07/1978 |
| 1979-1980 | 1184 | 135.495 | 19/11/1979 | 0.100 | 132.095 | 03/07/1979 |
| 1980-1981 | 20.10 | 132.630 | 18/01/1981 | 0.000 | 132.000 | 20/09/1980 |
| 1981-1982 | 1935 | 136.050 | 29/10/1981 | 0.000 | 131.990 | 09/07/1981 |
| 1982-1983 | 13.80 | 132.570 | 11/05/1983 | 0.000 | 132.060 | 03/01/1983 |
| 1983-1984 | 194.1 | 133.585 | 23/12/1983 | 0.000 | Dry Bed | 09/07/1983 |
| 1984-1985 | 85.10 | 133.276 | 16/11/1984 | 0.000 | 132.145 | 11/05/1985 |
| 1985-1986 | 63.90 | 135.020 | 03/11/1985 | 0.000 | 133.955 | 01/06/1985 |
| 1986-1987 | 66.70 | 134.970 | 13/10/1986 | 0.000 | 133.820 | 01/06/1986 |
| 1987-1988 | 92.71 | 135.170 | 27/10/1987 | 0.000 | 133.740 | 09/06/1987 |
| 1988-1989 | 86.46 | 135.120 | 11/10/1988 | 0.030 | 133.780 | 02/07/1988/ |
| 1989-1990 | 62.50 | 135.050 | 26/10/1989 | 0.000 | 133.760 | 13/06/1989 |
| 1990-1991 | 86.83 | 135.030 | 01/01/1991 | 0.000 | Dry Bed | 01/06/1990 |
| 1991-1992 | 1632 | 138.782 | 17/11/1991 | 0.000 | Dry Bed | 01/06/1991 |
| 1992-1993 | 583.0 | 136.474 | 17/11/1992 | 0.000 | Dry Bed | 30/08/1992 |
| 1993-1994 | 810.4 | 137.137 | 05/12/1993 | 0.000 | Dry Bed | 11/07/1993 |
| 1994-1995 | 196.0 | 135.550 | 06/11/1994 | 0.000 | 133.740 | 21/06/1994 |
| 1995-1996 | 52.39 | 134.720 | 04/12/1995 | 0.000 | 133.870 | 15/06/1995 |

Q : Observed / Computed Discharge
WL : Corresponding Water Level(m.s.l)

**Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)**

| | Maximum | | | Minimum | | |
|---|---|---|---|---|---|---|
| **Year** | **Q (cumecs)** | **WL (m)** | **Date** | **Q (cumecs)** | **WL (m)** | **Date** |
| 1996-1997 | 948.0 | 138.100 | 15/12/1996 | 0.000 | 133.850 | 01/06/1996 |
| 1997-1998 | 449.5 | 136.400 | 20/11/1997 | 0.000 | 133.840 | 01/06/1997 |
| 1998-1999 | 384.0 | 136.350 | 13/12/1998 | 0.000 | 133.800 | 09/07/1998 |
| 1999-2000 | 294.2 | 136.010 | 29/10/1999 | 0.060 | 133.000 | 24/05/2000 |
| 2000-2001 | 348.9 | 136.210 | 24/10/2000 | 0.000 | 133.840 | 11/06/2000 |
| 2001-2002 | 287.1 | 135.950 | 13/10/2001 | 0.000 | 133.680 | 16/06/2000 |
| 2002-2003 | 7.234 | 134.060 | 07/11/2002 | 0.000 | 133.670 | 01/06/2002 |
| 2003-2004 | 35.94 | 134.600 | 11/01/2004 | 0.000 | Dry Bed | 01/06/2003 |
| 2004-2005 | 117.2 | 135.055 | 31/10/2004 | 0.000 | 133.650 | 01/06/2004 |
| 2005-2006 | 800.9 | 137.375 | 25/11/2005 | 0.000 | 133.780 | 01/06/2005 |
| 2006-2007 | 46.00 | 134.460 | 25/01/2007 | 0.000 | Dry Bed | 11/07/2006 |
| 2007-2008 | 422.6 | 136.250 | 19/12/2007 | 0.000 | Dry Bed | 01/06/2007 |
| 2008-2009 | 141.9 | 135.950 | 01/12/2008 | 0.000 | Dry Bed | 01/06/2008 |
| 2009-2010 | 49.90 | 135.105 | 15/11/2009 | 0.000 | 133.780 | 15/06/2009 |
| 2010-2011 | 186.2 | 135.735 | 02/12/2010 | 0.000 | 133.750 | 01/06/2010 |
| 2011-2012 | 106.1 | 135.605 | 31/12/2011 | 0.000 | 133.830 | 22/06/2011 |
| 2012-2013 | 60.02 | 134.930 | 22/01/2013 | 0.000 | 133.910 | 01/06/2012 |
| 2013-2014 | 24.71 | 134.540 | 17/11/2013 | 0.000 | Dry Bed | 01/06/2013 |
| 2014-2015 | 29.01 | 134.510 | 14/02/2015 | 0.000 | Dry Bed | 01/06/2014 |

Q : Observed / Computed Discharge
WL : Corresponding Water Level(m.s.l)

## Stage-Discharge Data for the period 2015 - 2016

**Station Name : VAZHAVACHANUR ( CP000H2)** **Division : Hydrology Division, Chennai**

**Local River : Ponnaiyar** **Sub-Division : Palar Ponnaiyar SD, Chennai**

| Day | Jun | | Jul | | Aug | | Sep | | Oct | | Nov | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | W.L | Q | W.L | Q | W.L | Q | W.L | Q | W.L | Q | W.L | Q |
| 1 | 133.745 | 0.224 # | 133.700 | 0.000 | 133.745 | 0.239 | | 0.000 | 133.860 | 0.637 | | 0.000 |
| 2 | 133.740 | 0.252 | 133.705 | 0.000 | 133.730 | 0.162 * | | 0.000 | 133.790 | 0.373 * | | 0.000 |
| 3 | 133.750 | 0.302 | 133.730 | 0.000 | 133.740 | 0.234 | | 0.000 | 133.755 | 0.260 | | 0.000 |
| 4 | 133.770 | 0.414 | 133.720 | 0.000 | 133.755 | 0.271 | | 0.000 | 133.750 | 0.219 * | | 0.000 |
| 5 | 133.800 | 0.484 | 133.700 | 0.000 | 133.745 | 0.214 | | 0.000 | 133.745 | 0.214 | | 0.000 |
| 6 | 133.750 | 0.338 | 133.680 | 0.000 | 133.730 | 0.161 | | 0.000 | 133.770 | 0.319 | | 0.000 |
| 7 | 133.735 | 0.182 * | 133.680 | 0.000 | 133.710 | 0.103 | | 0.000 | 133.775 | 0.363 | 133.930 | 0.000 |
| 8 | 133.730 | 0.162 # | 133.680 | 0.000 | 133.710 | 0.101 | | 0.000 | 133.750 | 0.272 | 134.145 | 0.000 |
| 9 | 133.730 | 0.158 | 133.665 | 0.000 | 133.700 | 0.063 * | | 0.000 | 133.735 | 0.206 | 134.210 | 0.000 |
| 10 | 133.720 | 0.135 | 133.640 | 0.000 | 133.680 | 0.000 | | 0.000 | 133.720 | 0.123 | 135.020 | 56.63 |
| 11 | 133.760 | 0.271 | 133.640 | 0.000 | 133.680 | 0.000 | | 0.000 | 133.720 | 0.130 * | 134.515 | 17.34 |
| 12 | 133.805 | 0.508 | 133.640 | 0.000 | 133.675 | 0.000 | | 0.000 | 133.720 | 0.128 | 134.395 | 6.588 |
| 13 | 133.820 | 0.659 | 133.620 | 0.000 | 133.670 | 0.000 | | 0.000 | 133.720 | 0.126 | 134.355 | 6.347 |
| 14 | 133.830 | 0.720 * | | 0.000 | 133.640 | 0.000 | | 0.000 | 133.710 | 0.109 | 134.340 | 5.128 |
| 15 | 133.810 | 0.534 | | 0.000 | | 0.000 | | 0.000 | 133.705 | 0.084 | 134.330 | 5.650 * |
| 16 | 133.770 | 0.392 | | 0.000 | | 0.000 | | 0.000 | 133.700 | 0.063 | 134.610 | 25.41 |
| 17 | 133.755 | 0.283 | | 0.000 | 133.670 | 0.000 | | 0.000 | 133.690 | 0.064 # | 134.585 | 22.10 |
| 18 | 133.760 | 0.295 | | 0.000 | 133.650 | 0.000 | | 0.000 | 133.690 | 0.000 | 134.485 | 15.14 |
| 19 | 133.770 | 0.340 | | 0.000 | 133.640 | 0.000 | | 0.000 | 133.680 | 0.000 | 134.455 | 12.78 |
| 20 | 133.770 | 0.307 | | 0.000 | 133.630 | 0.000 | | 0.000 | 133.680 | 0.000 * | 134.440 | 12.15 |
| 21 | 133.760 | 0.295 * | | 0.000 | | 0.000 | | 0.000 | 133.680 | 0.000 | 134.480 | 15.33 |
| 22 | 133.760 | 0.290 | | 0.000 | 133.660 | 0.000 | | 0.000 | 133.680 | 0.000 | 134.450 | 11.74 * |
| 23 | 133.745 | 0.200 | | 0.000 | 133.670 | 0.000 | | 0.000 | 133.680 | 0.000 | 135.020 | 55.74 |
| 24 | 133.735 | 0.160 | | 0.000 | 133.710 | 0.078 | | 0.000 | 133.660 | 0.000 | 134.815 | 39.71 |
| 25 | 133.735 | 0.160 | | 0.000 | 133.695 | 0.050 # | | 0.000 | 133.660 | 0.000 | 134.900 | 49.50 * |
| 26 | 133.720 | 0.118 | 133.710 | 0.000 | 133.680 | 0.000 | | 0.000 | 133.660 | 0.000 | 134.970 | 56.63 |
| 27 | 133.710 | 0.076 | 133.730 | 0.000 | 133.680 | 0.000 | | 0.000 | 133.660 | 0.000 | 135.390 | 101.2 |
| 28 | 133.710 | 0.092 * | 133.755 | 0.000 | 133.675 | 0.000 | 133.745 | 0.248 | 133.660 | 0.000 | 134.745 | 42.14 |
| 29 | 133.700 | 0.074 | 133.775 | 0.000 | 133.660 | 0.000 | 133.860 | 0.633 | 133.660 | 0.000 | 134.830 | 42.21 * |
| 30 | 133.700 | 0.054 | 133.775 | 0.000 | 133.640 | 0.000 | 133.995 | 1.731 | | 0.000 | 134.925 | 55.04 |
| 31 | | | 133.750 | 0.000 | 133.640 | 0.000 | | | | 0.000 | | |
| Ten-Daily Mean | | | | | | | | | | | | |
| I Ten-Daily | 133.747 | 0.265 | 133.690 | 0.000 | 133.724 | 0.155 | | 0.000 | 133.765 | 0.299 | 134.326 | 5.663 |
| II Ten-Daily | 133.785 | 0.431 | 133.633 | 0.000 | 133.657 | 0.000 | | 0.000 | 133.701 | 0.070 | 134.451 | 12.86 |
| III Ten-Daily | 133.727 | 0.152 | 133.749 | 0.000 | 133.671 | 0.012 | 133.867 | 0.261 | 133.667 | 0.000 | 134.853 | 46.93 |
| Monthly | | | | | | | | | | | | |
| Min. | 133.700 | 0.054 | 133.620 | 0.000 | 133.630 | 0.000 | 133.745 | 0.000 | 133.660 | 0.000 | 133.930 | 0.000 |
| Max. | 133.830 | 0.720 | 133.775 | 0.000 | 133.755 | 0.271 | 133.995 | 1.731 | 133.860 | 0.637 | 135.390 | 101.2 |
| Mean | 133.753 | 0.283 | 133.700 | 0 | 133.686 | 0.054 | 133.867 | 0.087 | 133.713 | 0.119 | 134.598 | 21.82 |

**Annual Runoff in MCM = 273 Annual Runoff in mm = 25**

**Peak Observed Discharge = 184.2 cumecs on 07/12/2015 Corres. Water Level :135.655 m**

**Lowest Observed Discharge = 0.000 cumecs on 01/07/2015 Corres. Water Level :133.7 m**

Q: Observed/Computed Discharge in cumecs

WL:Corresponding Mean Water Level(m.s.l) in m

*:Computed Discharge

#:Discarded Discharge (values changed as per rating curve)

*Note:Missing values ignored while arriving at Annual Runoff*

## Stage-Discharge Data for the period 2015 - 2016

**Station Name : VAZHAVACHANUR ( CP000H2)** **Division : Hydrology Division, Chennai**

**Local River : Ponnaiyar** **Sub-Division : Palar Ponnaiyar SD, Chennai**

| Day | Dec | | Jan | | Feb | | Mar | | Apr | | May | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | W.L | Q | WL | Q | WL | Q | WL | Q | WL | Q | WL | Q |
| 1 | 135.050 | 65.34 | 134.580 | 27.16 | 134.250 | 2.667 | 134.220 | 0.764 | 134.210 | 0.000 | 134.235 | 0.000 |
| 2 | 135.310 | 111.1 | 134.320 | 7.196 | 134.230 | 1.758 | 134.220 | 0.751 | 134.210 | 0.000 | 134.235 | 0.000 |
| 3 | 135.260 | 107.7 | 134.310 | 6.400 * | 134.220 | 1.309 | 134.610 | 30.68 | 134.210 | 0.000 | 134.295 | 3.254 |
| 4 | 135.180 | 92.05 | 134.300 | 6.888 | 134.200 | 1.247 | 134.520 | 18.08 | 134.210 | 0.000 | 134.295 | 3.236 |
| 5 | 134.810 | 56.97 | 134.350 | 8.629 # | 134.220 | 1.466 | 134.500 | 18.19 | 134.210 | 0.000 | 134.440 | 11.11 |
| 6 | 134.960 | 71.71 * | 134.390 | 11.47 | 134.220 | 1.136 | 134.560 | 24.40 * | 134.210 | 0.000 | 134.310 | 3.865 |
| 7 | 135.655 | 184.2 | 134.390 | 13.37 | 134.220 | 1.008 * | 134.560 | 23.79 | 134.210 | 0.000 | 134.300 | 3.909 |
| 8 | 135.150 | 103.0 | 134.320 | 5.684 | 134.220 | 1.099 | 134.555 | 23.32 | 134.210 | 0.000 | 134.300 | 3.347 * |
| 9 | 134.930 | 70.61 | 134.280 | 4.763 | 134.220 | 1.109 | 134.550 | 22.51 | 134.210 | 0.000 | 134.290 | 2.717 |
| 10 | 135.320 | 123.4 | 134.280 | 4.914 * | 134.220 | 1.008 # | 134.540 | 21.45 | 134.210 | 0.000 | 134.270 | 1.929 |
| 11 | 135.230 | 108.0 | 134.280 | 4.534 | 134.220 | 1.243 | 134.520 | 23.56 | 134.210 | 0.000 | 134.280 | 2.563 |
| 12 | 135.055 | 90.15 | 134.390 | 11.25 | 134.220 | 1.267 | 134.320 | 4.628 | 134.210 | 0.000 | 134.330 | 4.319 |
| 13 | 134.980 | 74.59 * | 134.310 | 5.726 | 134.550 | 21.88 | 134.270 | 2.280 * | 134.260 | 1.881 | 134.280 | 2.016 |
| 14 | 134.920 | 73.87 | 134.280 | 4.907 | 134.550 | 23.14 * | 134.260 | 2.338 | 134.260 | 1.977 * | 134.270 | 2.128 |
| 15 | 134.720 | 42.84 | 134.270 | 4.456 * | 134.480 | 16.18 | 134.230 | 1.396 | 134.260 | 1.983 | 134.270 | 2.280 * |
| 16 | 134.690 | 41.86 | 134.270 | 3.480 | 134.480 | 15.56 | 134.210 | 0.684 | 134.260 | 1.770 | 134.270 | 2.074 |
| 17 | 134.680 | 38.94 | 134.270 | 4.456 * | 134.505 | 19.46 | 134.200 | 0.000 | 134.260 | 1.977 * | 134.370 | 7.780 |
| 18 | 134.670 | 37.37 | 134.265 | 3.849 | 134.505 | 18.86 | 134.185 | 0.000 | 134.293 | 3.211 | 134.385 | 8.029 |
| 19 | 134.660 | 37.26 | 134.260 | 4.156 | 134.510 | 19.75 | 134.180 | 0.000 | 134.250 | 1.301 | 134.370 | 5.094 |
| 20 | 134.650 | 33.33 * | 134.260 | 3.231 | 134.510 | 19.65 | 134.210 | 0.000 | 134.250 | 1.699 * | 134.370 | 6.316 * |
| 21 | 134.650 | 35.90 | 134.260 | 3.366 | 134.510 | 18.51 * | 134.210 | 0.000 | 134.240 | 1.445 # | 134.330 | 4.662 * |
| 22 | 134.640 | 32.77 | 134.280 | 4.914 # | 134.510 | 17.64 | 134.210 | 0.000 | 134.235 | 0.000 | 134.320 | 4.195 * |
| 23 | 134.600 | 29.52 | 134.390 | 12.46 | 134.310 | 4.305 | 134.210 | 0.000 | 134.235 | 0.000 | 134.310 | 3.757 # |
| 24 | 134.510 | 20.15 * | 134.380 | 10.48 * | 134.240 | 1.333 | 134.210 | 0.000 | 134.235 | 0.000 | 134.290 | 3.281 |
| 25 | 134.370 | 9.845 * | 134.330 | 5.597 | 134.215 | 0.961 | 134.210 | 0.000 | 134.235 | 0.000 | 134.240 | 0.000 |
| 26 | 134.340 | 8.046 # | 134.270 | 3.070 * | 134.205 | 0.845 | 134.210 | 0.000 | 134.235 | 0.000 | 134.220 | 0.000 |
| 27 | 134.335 | 7.761 * | 134.260 | 2.476 | 134.205 | 0.848 | 134.210 | 0.000 | 134.235 | 0.000 | 134.210 | 0.000 |
| 28 | 134.330 | 9.580 | 134.250 | 2.566 | 134.205 | 0.739 * | 134.210 | 0.000 | 134.235 | 0.000 | 134.230 | 0.000 |
| 29 | 134.330 | 8.177 | 134.260 | 2.423 | 134.205 | 0.742 | 134.210 | 0.000 | 134.235 | 0.000 | 134.250 | 0.000 |
| 30 | 134.320 | 6.691 | 134.250 | 2.948 | | | 134.210 | 0.000 | 134.235 | 0.000 | 134.240 | 0.000 |
| 31 | 134.320 | 6.671 | 134.250 | 2.405 * | | | 134.210 | 0.000 | | | 134.230 | 0.000 |
| Ten-Daily Mean | | | | | | | | | | | | |
| I Ten-Daily | 135.163 | 98.61 | 134.352 | 9.648 | 134.222 | 1.381 | 134.484 | 18.39 | 134.210 | 0.000 | 134.297 | 3.336 |
| II Ten-Daily | 134.826 | 57.82 | 134.286 | 5.005 | 134.453 | 15.70 | 134.258 | 3.488 | 134.251 | 1.580 | 134.319 | 4.260 |
| III Ten-Daily | 134.431 | 15.92 | 134.289 | 4.791 | 134.289 | 5.102 | 134.210 | 0.000 | 134.236 | 0.145 | 134.261 | 1.445 |
| Monthly | | | | | | | | | | | | |
| Min. | 134.320 | 6.671 | 134.250 | 2.405 | 134.200 | 0.739 | 134.180 | 0.000 | 134.210 | 0.000 | 134.210 | 0.000 |
| Max. | 135.655 | 184.2 | 134.580 | 27.16 | 134.550 | 23.14 | 134.610 | 30.68 | 134.292 | 3.211 | 134.440 | 11.11 |
| Mean | 134.794 | 56.11 | 134.308 | 6.427 | 134.323 | 7.473 | 134.314 | 7.059 | 134.232 | 0.575 | 134.291 | 2.963 |

**Peak Computed Discharge = 74.59 cumecs on 13/12/2015 Corres. Water Level :134.98 m**

**Lowest Computed Discharge = 0.000 cumecs on 20/10/2015 Corres. Water Level :133.68 m**

Q: Observed/Computed Discharge in cumecs

WL:Corresponding Mean Water Level(m.s.l) in m

*:Computed Discharge

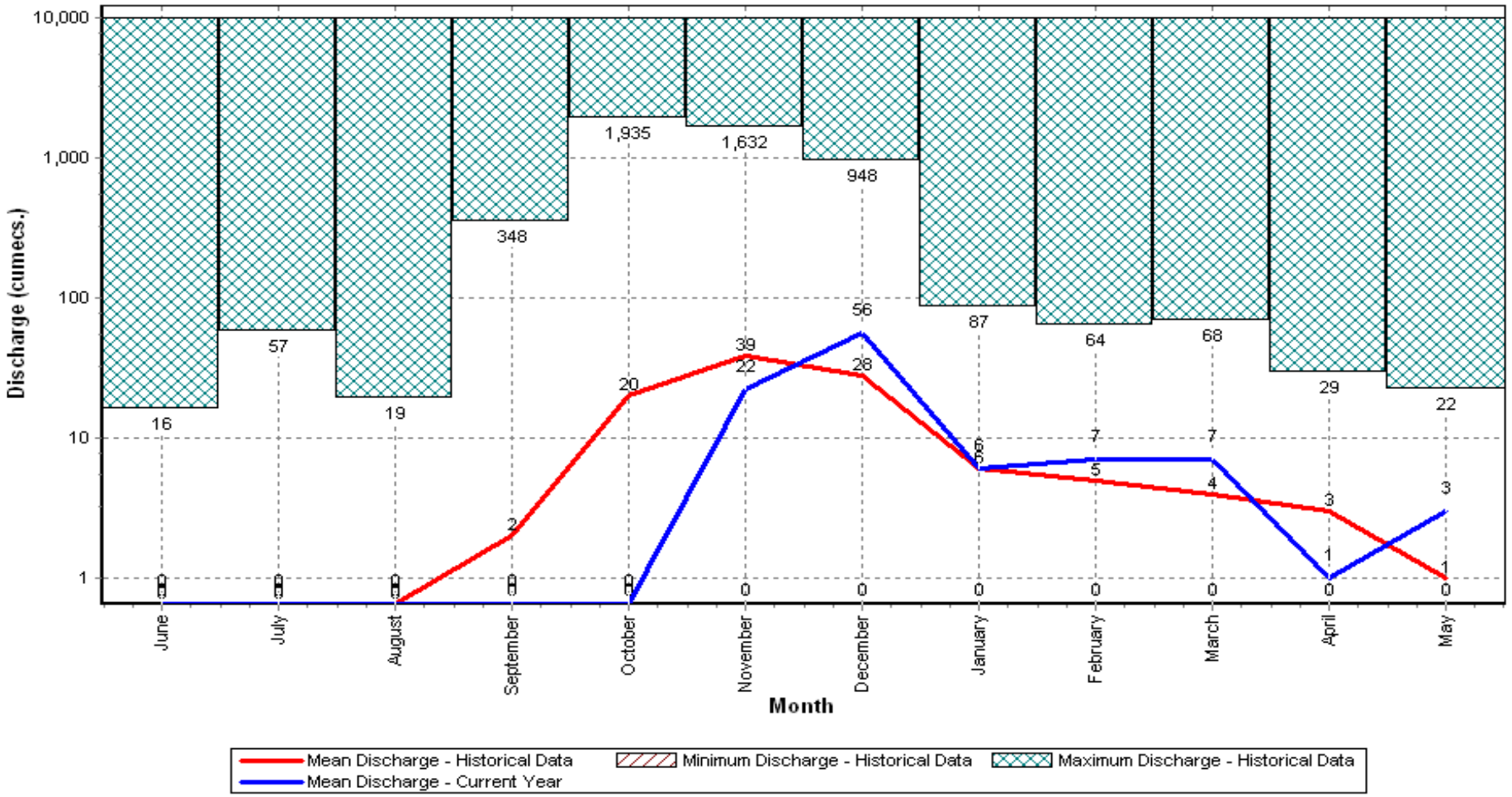
#:Discarded Discharge (values changed as per rating curve)

*Note:Missing values ignored while arriving at Annual Runoff*

**HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016**

**Station Name : VAZHAVACHANUR ( CP000H2)** | **Data considered : 1978-2016** | **Division : Hydrology Division, Chennai**

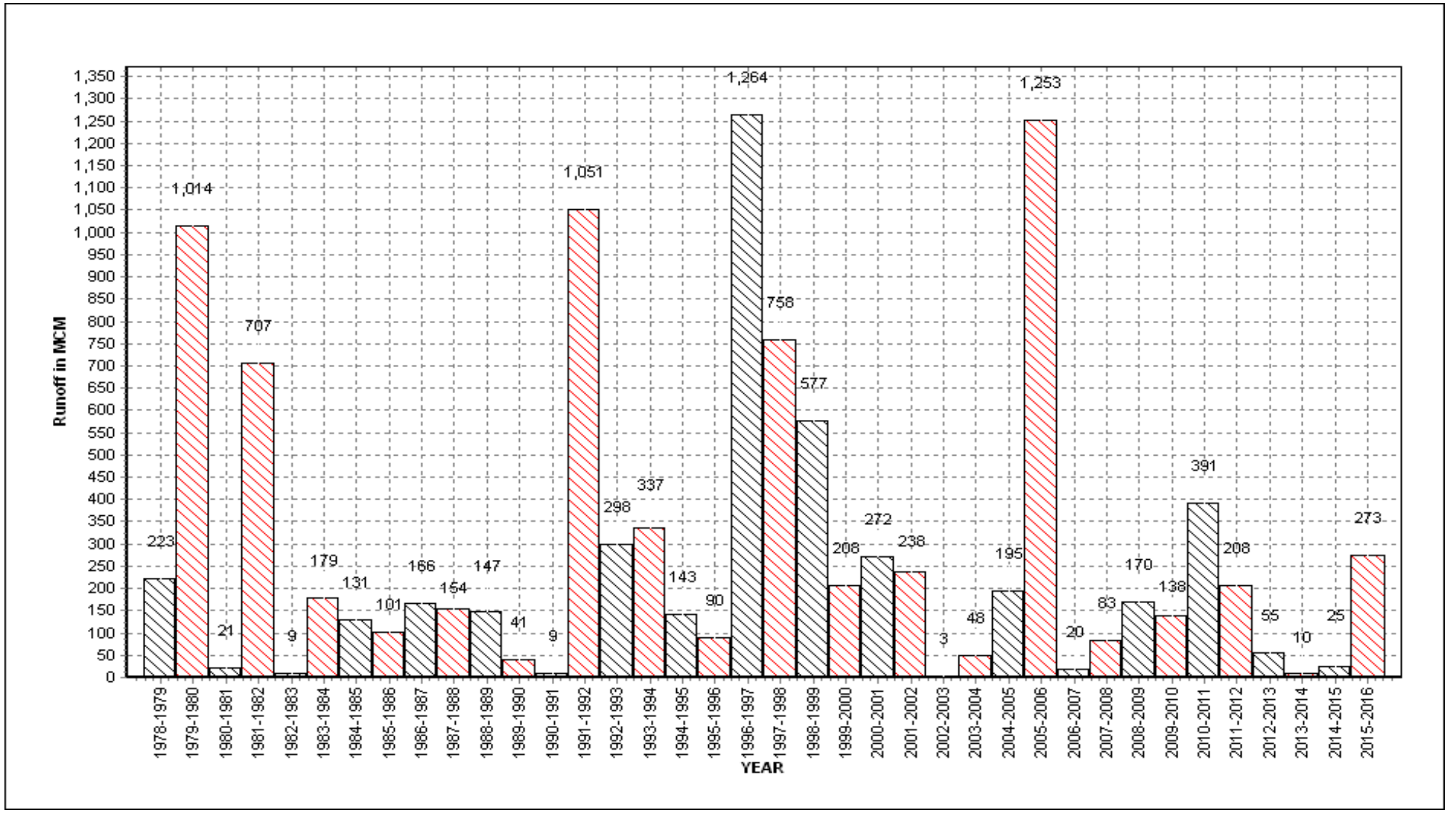
**Local River : Ponnaiyar** | **Sub-Division : Palar Ponnaiyar SD, Chennai**



**Annual Runoff Values for the period: 1978 - 2016**

**Station Name : VAZHAVACHANUR ( CP000H2)** **Division : Hydrology Division, Chennai**

**Local River : Ponnaiyar** **Sub-Division : Palar Ponnaiyar SD, Chennai**




*Note: Missing values have not been considered while arriving at Annual Runoff*

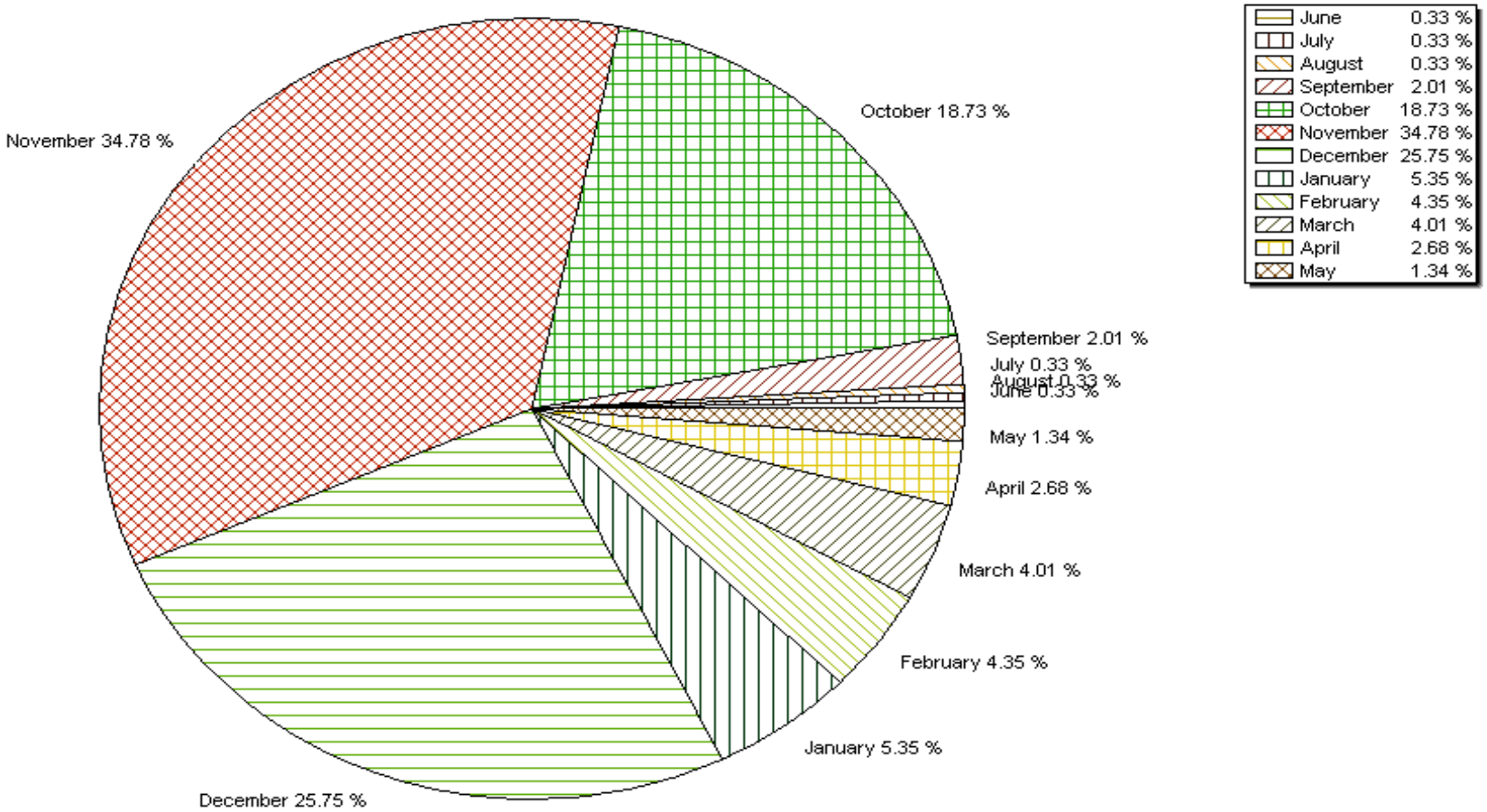
**Monthly Average Runoff based on period : 1978-2015**

**Station Name : VAZHAVACHANUR ( CP000H2)**

**Local River : Ponnaiyar**

**Division : Hydrology Division, Chennai**

**Sub-Division : Palar Ponnaiyar SD, Chennai**



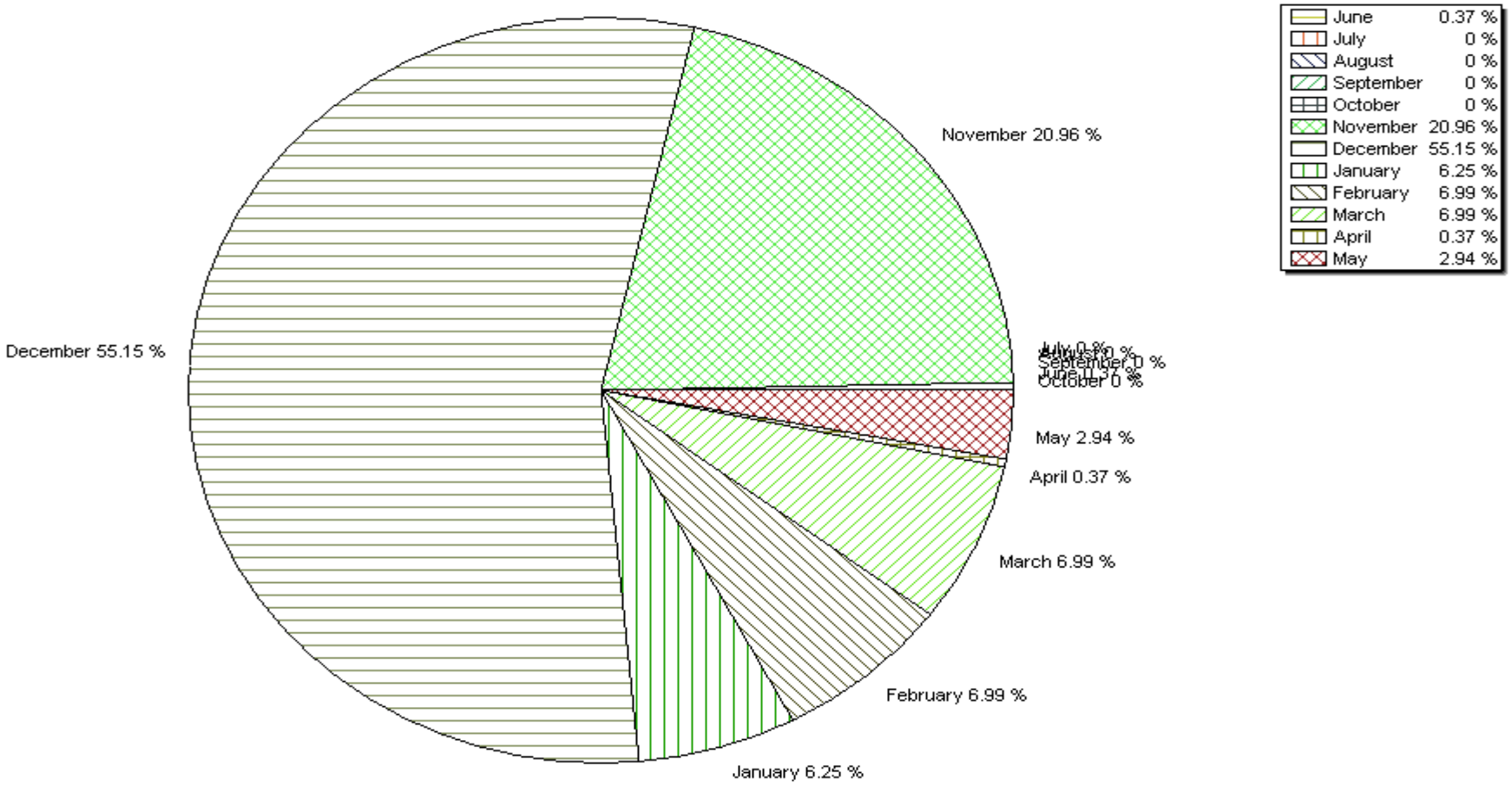
**Monthly Runoff for the Year : 2015-2016**

**Station Name : VAZHAVACHANUR ( CP000H2)**

**Local River : Ponnaiyar**

**Division : Hydrology Division, Chennai**

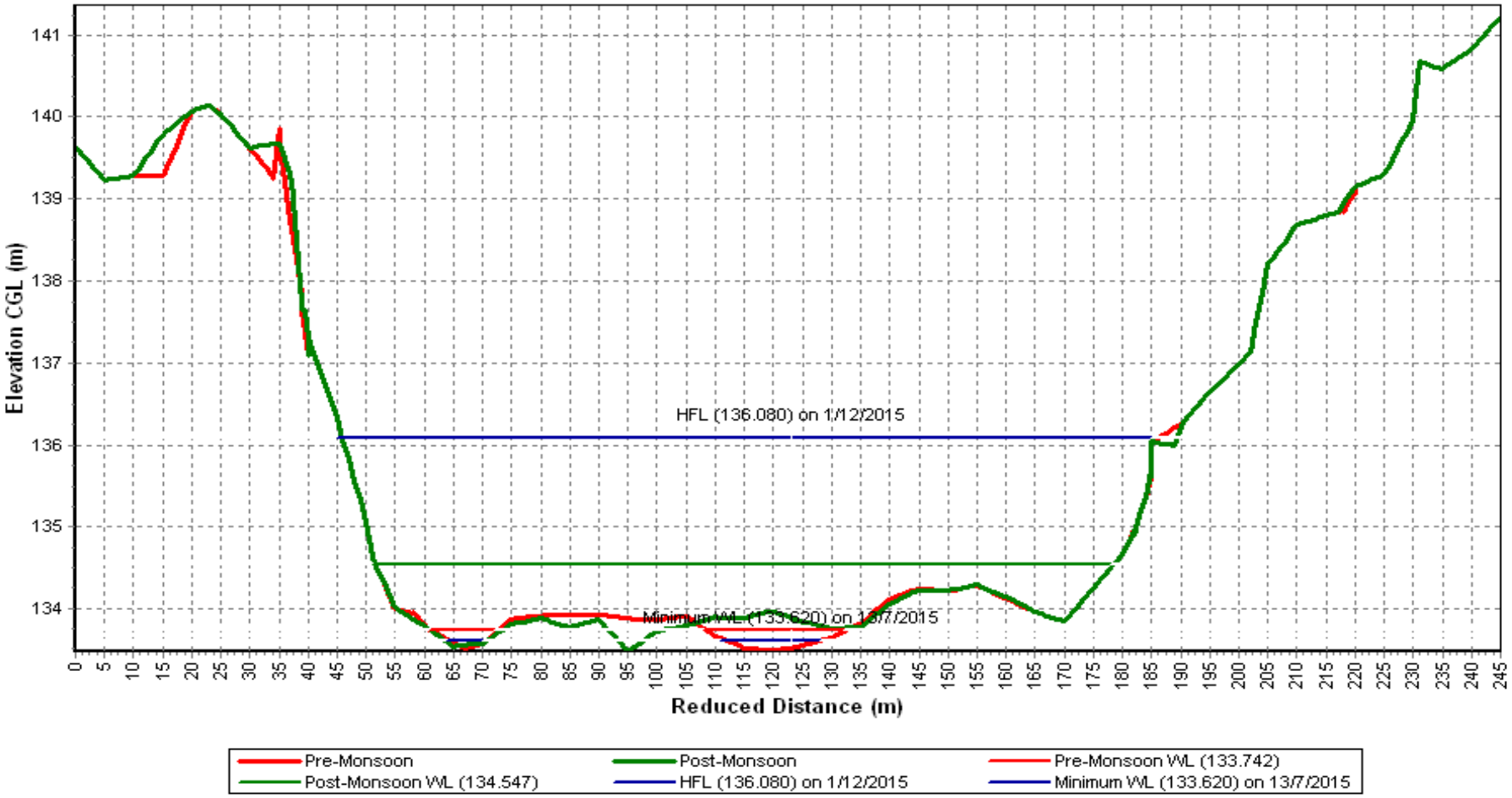
**Sub-Division : Palar Ponnaiyar SD, Chennai**



**Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2015-2016**

**Station Name : VAZHAVACHANUR ( CP000H2)** **Division : Hydrology Division, Chennai**

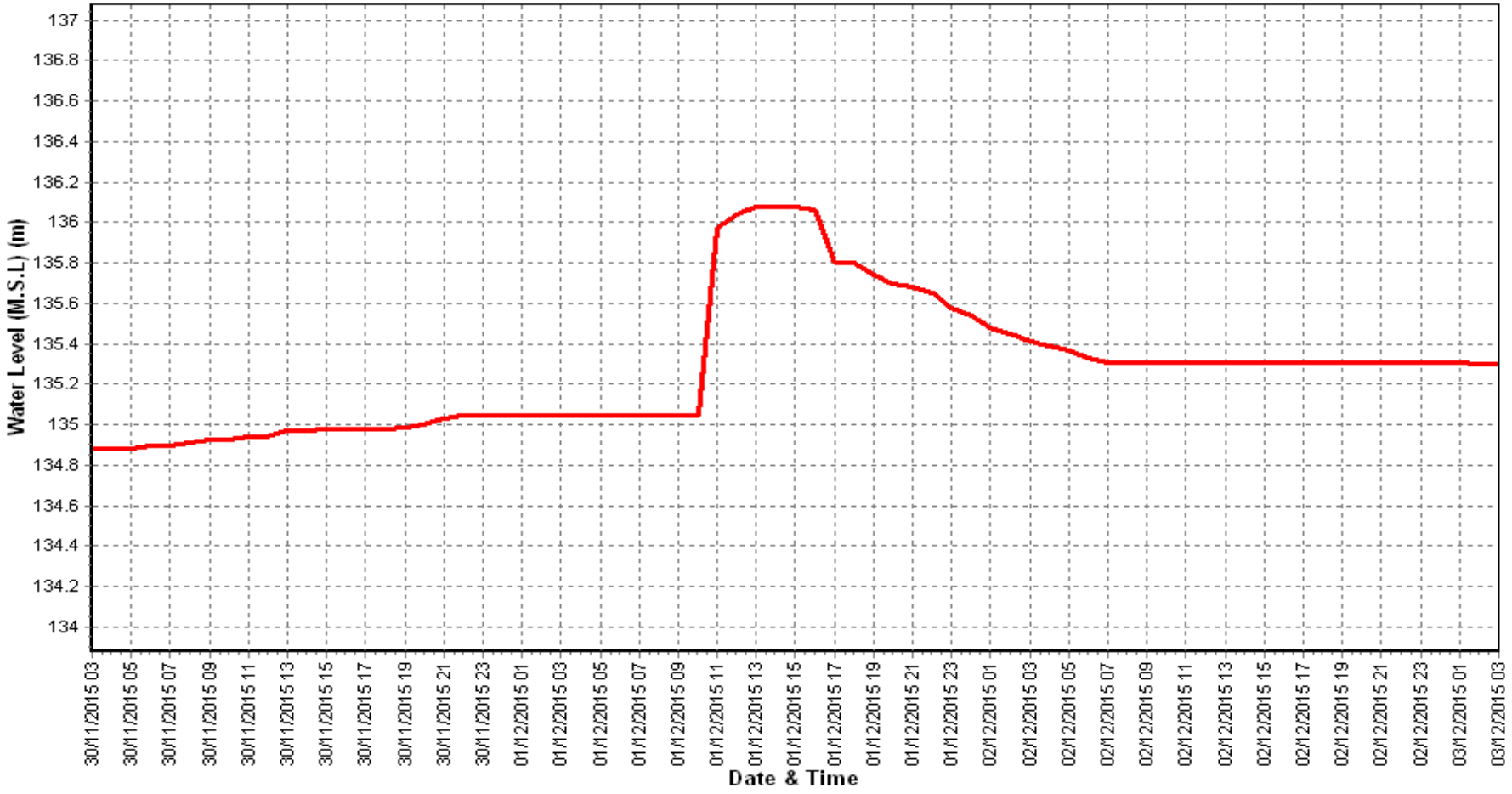
**Local River : Ponnaiyar** **Sub-Division : Palar Ponnaiyar SD, Chennai**



**Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2015-2016**

**Station Name : VAZHAVACHANUR ( CP000H2)** **Division : Hydrology Division, Chennai**

**Local River : Ponnaiyar** **Sub-Division : Palar Ponnaiyar SD, Chennai**

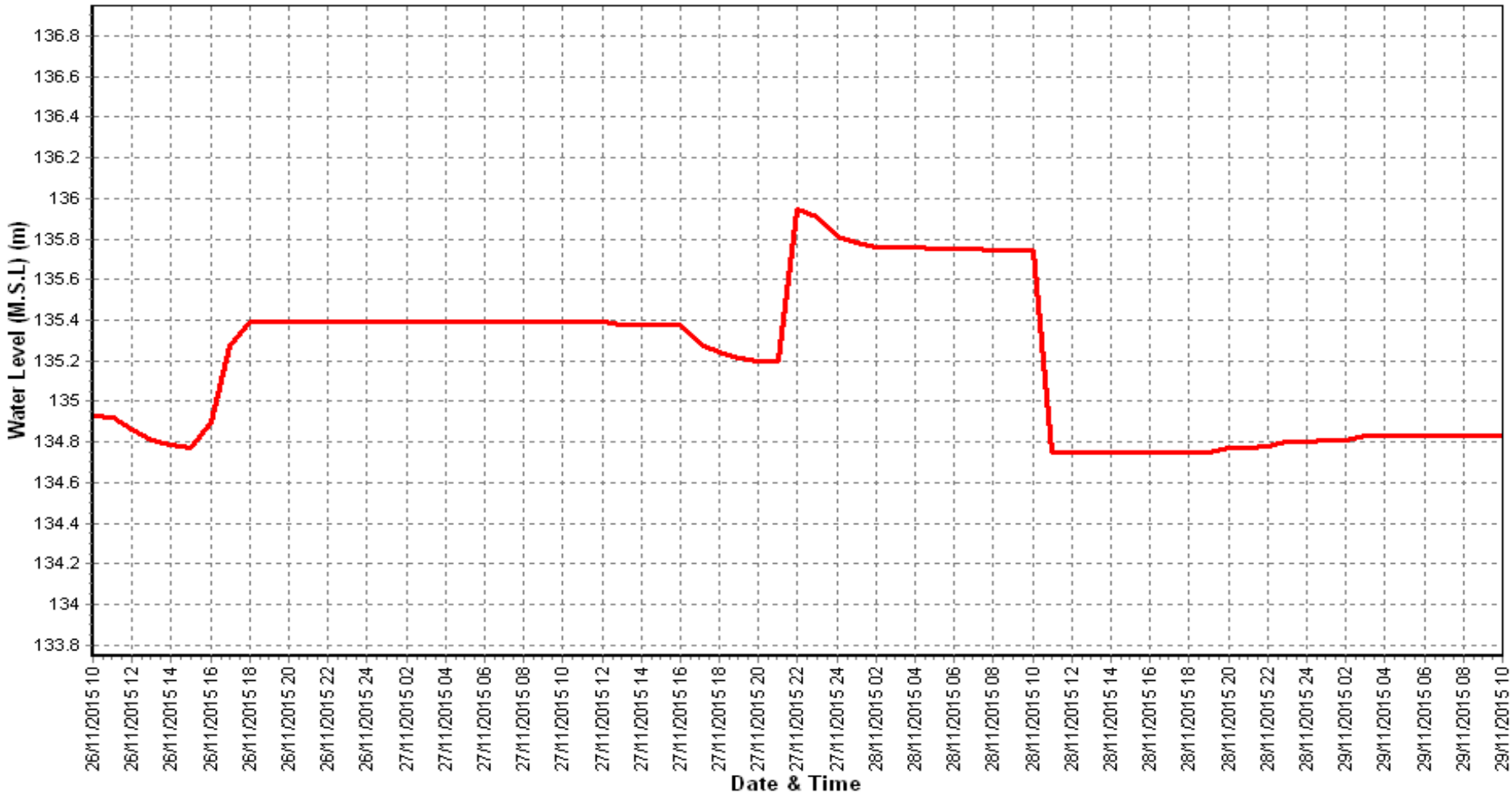



Time Span: 72 Hrs

**Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2015-2016**

**Station Name : VAZHAVACHANUR ( CP000H2)** **Division : Hydrology Division, Chennai**

**Local River : Ponnaiyar** **Sub-Division : Palar Ponnaiyar SD, Chennai**

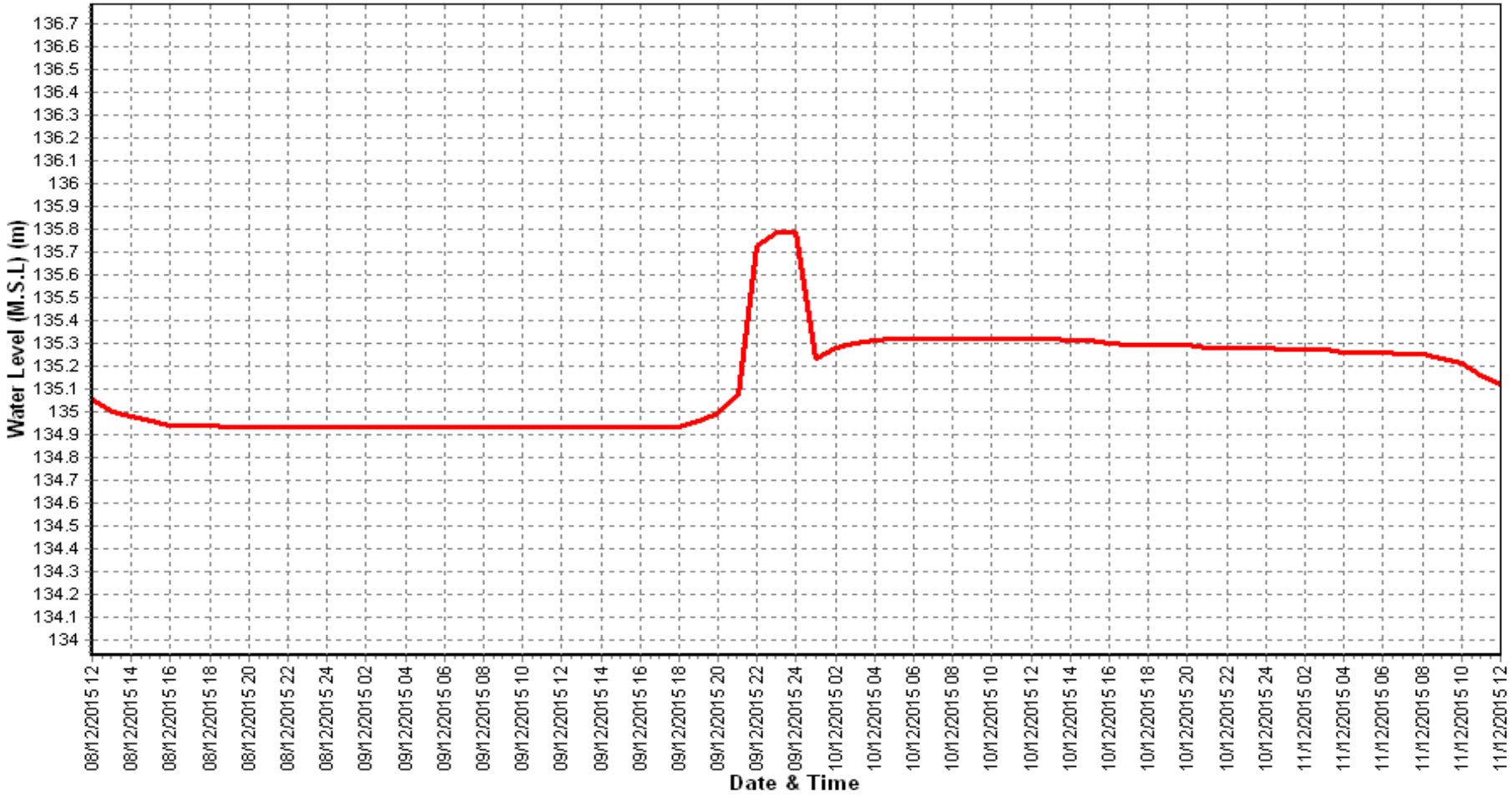



Time Span: 72 Hrs

**Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2015-2016**

**Station Name : VAZHAVACHANUR ( CP000H2)** **Division : Hydrology Division, Chennai**

**Local River : Ponnaiyar** **Sub-Division : Palar Ponnaiyar SD, Chennai**




Time Span: 72 Hrs

## HISTORY SHEET

**Water Year : 2015-2016**

| | | | | | |
|---|---|---|---|---|---|
| **Site** | : | **Gummanur** | **Code** | : | **CP000R5** |
| State | : | Tamil Nadu | District | | Dharmapuri |
| Basin | : | EFR B Pennar-Cauvery | Independent River | : | Ponnaiyar |
| Tributary | : | | Sub Tributary | : | |
| Sub-Sub Tributary | : | | Local River | : | Ponnaiyar |
| Division | : | SR Division, Coimbatore | Sub-Division | : | Lower Cauvery SD, Trichi |
| Drainage Area | : | 4620 Sq. Km. | Bank | : | Left |
| Latitude | : | 12°33'18" | Longitude | : | 78°08'18" |
| **Zero of Gauge (m)** | : | 490.000 (m.s.l) | 01/09/1978 | | |
| | | Opening Date | Closing Date | | |
| Gauge | : | 01/09/1978 | | | |
| Discharge | : | 20/09/1978 | | | |
| Sediment | : | 26/08/1981 | | | |
| Water Quality | : | 20/09/1978 | | | |

**Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)**

| | Maximum | | | Minimum | | |
|---|---|---|---|---|---|---|
| **Year** | **Q (cumecs)** | **WL (m)** | **Date** | **Q (cumecs)** | **WL (m)** | **Date** |
| 1979-1980 | 179.0 | 492.400 | 11/09/1979 | 0.000 | 490.780 | 19/07/1979 |
| 1980-1981 | 31.60 | 491.380 | 03/10/1980 | 0.000 | 490.800 | 05/04/1981 |
| 1981-1982 | 1155 | 495.000 | 11/09/1981 | 0.000 | 490.845 | 19/02/1982 |
| 1982-1983 | 232.0 | 492.690 | 19/09/1982 | 0.000 | 491.260 | 05/07/1982 |
| 1983-1984 | 57.30 | 491.940 | 08/06/1983 | 0.000 | 491.250 | 04/04/1984 |
| 1984-1985 | 194.7 | 492.745 | 27/09/1984 | 0.000 | 491.245 | 01/06/1984 |
| 1985-1986 | 72.00 | 492.040 | 23/08/1985 | 0.000 | 491.150 | 01/06/1985 |
| 1986-1987 | 100.1 | 492.180 | 29/09/1986 | 0.000 | 491.245 | 01/07/1986 |
| 1987-1988 | 333.3 | 492.894 | 06/10/1987 | 0.000 | 491.365 | 01/06/1987 |
| 1988-1989 | 344.0 | 492.840 | 11/09/1988 | 0.000 | 491.340 | 16/06/1988 |
| 1989-1990 | 177.5 | 492.570 | 22/09/1989 | 0.000 | 491.250 | 01/06/1989 |
| 1990-1991 | 56.43 | 492.140 | 25/09/1990 | 0.000 | 491.300 | 22/06/1990 |
| 1991-1992 | 729.1 | 493.778 | 30/10/1991 | 0.000 | Dry Bed | 01/06/1991 |
| 1992-1993 | 48.73 | 491.879 | 11/06/1992 | 0.000 | Dry Bed | 01/08/1992 |
| 1993-1994 | 55.23 | 492.072 | 09/10/1993 | 0.000 | Dry Bed | 01/06/1993 |
| 1994-1995 | 39.98 | 491.820 | 29/10/1994 | 0.000 | Dry Bed | 01/06/1994 |
| 1995-1996 | 52.63 | 492.000 | 21/08/1995 | 0.000 | Dry Bed | 01/06/1995 |
| 1996-1997 | 49.25 | 491.960 | 30/09/1996 | 0.000 | Dry Bed | 01/06/1996 |
| 1997-1998 | 151.0 | 492.725 | 19/11/1997 | 0.000 | 491.145 | 01/06/1997 |

Q : Observed / Computed Discharge
WL : Corresponding Water Level(m.s.l)

**Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)**

| | Maximum | | | Minimum | | |
|---|---|---|---|---|---|---|
| **Year** | **Q (cumecs)** | **WL (m)** | **Date** | **Q (cumecs)** | **WL (m)** | **Date** |
| 1998-1999 | 124.2 | 492.110 | 11/10/1998 | 0.000 | 491.185 | 01/06/1998 |
| 1999-2000 | 143.5 | 492.650 | 26/10/1999 | 0.000 | 491.130 | 01/06/1999 |
| 2000-2001 | 187.7 | 493.100 | 23/10/2000 | 0.000 | 491.200 | 01/06/2000 |
| 2001-2002 | 184.8 | 492.250 | 06/10/2001 | 0.000 | 491.090 | 01/06/2001 |
| 2002-2003 | 21.50 | 491.490 | 03/11/2002 | 0.000 | 491.000 | 20/07/2002 |
| 2003-2004 | 69.73 | 491.685 | 07/10/2003 | 0.000 | 490.970 | 01/06/2003 |
| 2004-2005 | 242.4 | 492.700 | 16/10/2004 | 0.000 | 490.925 | 14/08/2004 |
| 2005-2006 | 2170 | 495.600 | 24/10/2005 | 0.000 | 490.870 | 10/07/2005 |
| 2006-2007 | 22.20 | 491.550 | 05/11/2006 | 0.000 | 490.990 | 01/06/2006 |
| 2007-2008 | 82.53 | 491.800 | 16/09/2007 | 0.000 | 490.870 | 10/07/2007 |
| 2008-2009 | 94.97 | 491.770 | 30/08/2008 | 0.000 | 490.800 | 14/04/2009 |
| 2009-2010 | 102.7 | 491.740 | 16/09/2009 | 0.000 | 490.970 | 11/08/2009 |
| 2010-2011 | 38.47 | 491.575 | 10/11/2010 | 0.000 | 491.030 | 02/04/2011 |
| 2011-2012 | 77.76 | 491.670 | 13/10/2011 | 0.000 | 490.895 | 18/04/2012 |
| 2012-2013 | 23.88 | 491.450 | 05/11/2012 | 0.000 | 490.900 | 01/06/2012 |
| 2013-2014 | 115.6 | 491.850 | 15/09/2013 | 0.000 | 490.850 | 17/07/2013 |
| 2014-2015 | 88.64 | 491.710 | 28/10/2014 | 0.000 | 490.940 | 29/06/2014 |

Q : Observed / Computed Discharge
WL : Corresponding Water Level(m.s.l)

## Stage-Discharge Data for the period 2015 - 2016

**Station Name : Gummanur ( CP000R5)** **Division : SR Division, Coimbatore**

**Local River : Ponnaiyar** **Sub-Division : Lower Cauvery SD, Trichi**

| Day | Jun | | Jul | | Aug | | Sep | | Oct | | Nov | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | W.L | Q | W.L | Q | W.L | Q | W.L | Q | W.L | Q | W.L | Q |
| 1 | 491.460 | 24.12 | 491.320 | 4.596 | 491.350 | 6.706 | 491.375 | 10.26 | 491.515 | 42.92 | 491.400 | 13.95 * |
| 2 | 491.475 | 26.55 | 491.315 | 4.305 | 491.350 | 7.905 * | 491.305 | 4.222 | 491.505 | 38.47 * | 491.485 | 27.96 |
| 3 | 491.515 | 46.79 | 491.315 | 4.352 | 491.310 | 4.633 | 491.295 | 3.368 | 491.500 | 39.83 | 491.440 | 16.24 |
| 4 | 491.505 | 42.32 | 491.315 | 4.404 | 491.315 | 4.892 | 491.340 | 5.873 | 491.440 | 21.73 * | 491.520 | 45.02 |
| 5 | 491.470 | 25.71 | 491.310 | 4.544 * | 491.305 | 3.925 | 491.340 | 5.886 | 491.560 | 60.27 | 491.600 | 73.23 |
| 6 | 491.410 | 15.15 | 491.295 | 3.889 | 491.300 | 3.751 | 491.400 | 14.35 * | 491.500 | 40.07 | 491.670 | 71.47 |
| 7 | 491.400 | 14.22 * | 491.295 | 3.906 | 491.290 | 3.590 | 491.440 | 16.08 | 491.500 | 40.60 | 491.580 | 65.97 |
| 8 | 491.415 | 15.64 | 491.295 | 3.809 | 491.365 | 9.496 | 491.675 | 78.88 | 491.580 | 67.41 | 491.480 | 31.70 * |
| 9 | 491.425 | 17.38 | 491.300 | 4.614 | 491.400 | 13.66 * | 491.670 | 78.30 | 491.560 | 60.45 | 491.460 | 22.77 |
| 10 | 491.405 | 15.02 | 491.300 | 4.630 | 491.420 | 16.16 | 491.560 | 62.61 | 491.500 | 39.65 | 491.760 | 125.4 * |
| 11 | 491.395 | 13.85 | 491.300 | 4.650 | 491.380 | 12.43 | 491.580 | 67.14 | 491.500 | 37.00 * | 491.660 | 74.86 |
| 12 | 491.395 | 13.84 | 491.300 | 3.866 * | 491.375 | 11.09 | 491.500 | 40.35 | 491.620 | 81.29 # | 491.590 | 69.29 |
| 13 | 491.395 | 13.75 | 491.305 | 5.152 | 491.360 | 8.586 | 491.450 | 23.97 * | 491.500 | 40.61 | 491.650 | 75.07 |
| 14 | 491.390 | 12.65 * | 491.285 | 2.611 | 491.360 | 8.675 | 491.380 | 11.47 | 491.440 | 16.23 | 491.620 | 66.64 |
| 15 | 491.375 | 11.04 | 491.300 | 4.357 | 491.360 | 8.911 * | 491.365 | 9.565 | 491.410 | 14.32 | 491.600 | 64.31 * |
| 16 | 491.390 | 13.00 | 491.305 | 4.403 | 491.410 | 15.03 * | 491.360 | 7.666 | 491.350 | 7.246 | 491.520 | 44.76 |
| 17 | 491.395 | 13.77 | 491.370 | 9.991 | 491.440 | 20.38 | 491.355 | 7.396 * | 491.365 | 9.581 | 491.515 | 42.69 |
| 18 | 491.375 | 11.15 | 491.350 | 7.905 * | 491.420 | 16.34 | 491.350 | 6.833 | 491.360 | 8.011 * | 491.485 | 27.89 |
| 19 | 491.390 | 13.11 | 491.340 | 6.964 * | 491.380 | 11.38 | 491.350 | 6.663 | 491.355 | 7.458 | 491.515 | 42.74 |
| 20 | 491.410 | 15.56 | 491.340 | 5.723 | 491.500 | 40.26 | 491.360 | 8.011 * | 491.355 | 7.542 | 491.510 | 41.23 |
| 21 | 491.405 | 15.05 * | 491.340 | 5.701 | 491.500 | 40.60 | 491.365 | 9.497 | 491.300 | 2.329 * | 491.560 | 60.45 |
| 22 | 491.395 | 12.87 | 491.350 | 6.653 | 491.490 | 34.34 | 491.360 | 7.363 | 491.290 | 1.736 * | 491.560 | 52.18 * |
| 23 | 491.385 | 12.15 | 491.440 | 22.21 | 491.440 | 20.82 * | 491.385 | 11.06 | 491.290 | 1.736 # | 491.540 | 50.35 |
| 24 | 491.390 | 13.29 | 491.440 | 21.64 | 491.420 | 16.38 | 491.380 | 10.76 * | 491.285 | 1.474 * | 491.560 | 60.45 |
| 25 | 491.380 | 11.89 | 491.440 | 21.43 | 491.415 | 14.99 | 491.460 | 22.31 | 491.305 | 2.663 * | 491.565 | 53.63 * |
| 26 | 491.345 | 5.709 | 491.410 | 15.03 * | 491.380 | 11.38 | 491.440 | 16.23 | 491.355 | 7.288 | 491.530 | 46.27 |
| 27 | 491.335 | 5.734 | 491.400 | 14.95 | 491.375 | 10.23 | 491.445 | 22.83 * | 491.355 | 7.419 | 491.500 | 40.23 |
| 28 | 491.320 | 4.480 * | 491.385 | 11.71 | 491.380 | 11.02 | 491.460 | 22.44 | 491.360 | 7.635 | 491.490 | 33.79 |
| 29 | 491.315 | 4.333 | 491.295 | 3.379 | 491.375 | 10.31 | 491.460 | 22.71 | 491.365 | 9.667 | 491.480 | 31.70 * |
| 30 | 491.320 | 4.553 | 491.340 | 5.868 | 491.375 | 10.86 * | 491.500 | 40.31 | 491.365 | 9.523 | 491.470 | 23.74 |
| 31 | | | 491.335 | 5.387 | 491.380 | 11.05 | | | 491.375 | 10.59 | | |
| Ten-Daily Mean | | | | | | | | | | | | |
| I Ten-Daily | 491.448 | 24.29 | 491.306 | 4.305 | 491.340 | 7.472 | 491.440 | 27.98 | 491.516 | 45.14 | 491.540 | 49.37 |
| II Ten-Daily | 491.391 | 13.17 | 491.319 | 5.562 | 491.398 | 15.31 | 491.405 | 18.91 | 491.425 | 22.93 | 491.566 | 54.95 |
| III Ten-Daily | 491.359 | 9.006 | 491.380 | 12.18 | 491.412 | 17.45 | 491.425 | 18.55 | 491.331 | 5.642 | 491.526 | 45.28 |
| Monthly | | | | | | | | | | | | |
| Min. | 491.315 | 4.333 | 491.285 | 2.611 | 491.290 | 3.590 | 491.295 | 3.368 | 491.285 | 1.474 | 491.400 | 13.95 |
| Max. | 491.515 | 46.79 | 491.440 | 22.21 | 491.500 | 40.60 | 491.675 | 78.88 | 491.620 | 81.29 | 491.760 | 125.4 |
| Mean | 491.399 | 15.49 | 491.336 | 7.504 | 491.384 | 13.54 | 491.423 | 21.81 | 491.421 | 23.96 | 491.544 | 49.87 |

**Annual Runoff in MCM = 490 Annual Runoff in mm = 106**

**Peak Observed Discharge = 81.29 cumecs on 12/10/2015 Corres. Water Level :491.62 m**

**Lowest Observed Discharge = 0.000 cumecs on 08/04/2016 Corres. Water Level :491.03 m**

Q: Observed/Computed Discharge in cumecs

WL:Corresponding Mean Water Level(m.s.l) in m

*:Computed Discharge

#:Discarded Discharge (values changed as per rating curve)

*Note:Missing values ignored while arriving at Annual Runoff*

## Stage-Discharge Data for the period 2015 - 2016

**Station Name : Gummanur ( CP000R5)** **Division : SR Division, Coimbatore**

**Local River : Ponnaiyar** **Sub-Division : Lower Cauvery SD, Trichi**

| Day | Dec | | Jan | | Feb | | Mar | | Apr | | May | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | W.L | Q | WL | Q | WL | Q | WL | Q | WL | Q | WL | Q |
| 1 | 491.475 | 25.74 | 491.400 | 10.97 | 491.355 | 10.83 | 491.300 | 5.032 | 491.360 | 11.33 | 491.265 | 2.768 * |
| 2 | 491.480 | 27.96 | 491.395 | 9.795 | 491.320 | 6.222 # | 491.295 | 3.850 | 491.340 | 9.029 | 491.275 | 3.342 # |
| 3 | 491.480 | 28.77 | 491.400 | 10.65 * | 491.315 | 5.706 # | 491.350 | 10.69 | 491.330 | 7.263 * | 491.210 | 0.471 # |
| 4 | 491.475 | 25.40 | 491.395 | 9.395 | 491.320 | 6.222 # | 491.350 | 10.61 | 491.355 | 11.23 | 491.010 | 0.000 |
| 5 | 491.460 | 22.93 | 491.390 | 9.129 | 491.330 | 7.287 | 491.345 | 10.17 | 491.345 | 10.43 | 490.910 | 0.000 |
| 6 | 491.460 | 22.27 * | 491.385 | 8.852 | 491.330 | 7.260 | 491.345 | 8.541 * | 491.330 | 7.787 | 490.880 | 0.000 |
| 7 | 491.460 | 23.02 | 491.385 | 8.767 | 491.350 | 9.875 * | 491.345 | 10.33 | 491.220 | 0.964 | 491.045 | 0.000 |
| 8 | 491.450 | 20.94 | 491.385 | 9.038 | 491.350 | 10.76 | 491.340 | 7.536 | 491.030 | 0.000 | 491.245 | 1.754 * |
| 9 | 491.445 | 15.79 | 491.390 | 9.152 | 491.330 | 7.436 | 491.335 | 6.388 | 490.930 | 0.000 | 491.230 | 1.023 |
| 10 | 491.450 | 21.40 | 491.385 | 9.203 * | 491.330 | 7.374 | 491.300 | 4.700 | 490.900 | 0.000 | 491.210 | 0.471 # |
| 11 | 491.435 | 14.76 | 491.385 | 8.969 | 491.330 | 7.310 | 491.300 | 4.681 | 491.255 | 1.897 | 491.190 | 0.073 # |
| 12 | 491.385 | 10.99 | 491.350 | 6.163 | 491.325 | 6.896 | 491.290 | 3.786 | 491.305 | 5.002 | 491.120 | 0.000 |
| 13 | 491.400 | 10.65 * | 491.340 | 6.107 | 491.330 | 7.439 | 491.280 | 3.647 * | 491.320 | 7.191 | 490.950 | 0.000 |
| 14 | 491.410 | 14.23 | 491.350 | 6.488 | 491.345 | 9.197 * | 491.285 | 2.884 | 491.325 | 6.858 * | 490.870 | 0.000 |
| 15 | 491.410 | 14.08 | 491.345 | 5.919 * | 491.330 | 7.394 | 491.295 | 3.878 | 491.320 | 7.269 | 490.810 | 0.000 |
| 16 | 491.400 | 9.923 | 491.385 | 8.938 | 491.330 | 7.659 | 491.300 | 4.447 | 491.310 | 6.407 | 490.780 | 0.000 |
| 17 | 491.435 | 14.72 | 491.385 | 9.203 * | 491.290 | 3.686 | 491.305 | 4.629 | 491.300 | 4.971 * | 490.740 | 0.000 |
| 18 | 491.425 | 12.82 | 491.385 | 8.942 | 491.310 | 4.172 | 491.295 | 3.849 | 491.295 | 4.626 # | 490.820 | 0.000 |
| 19 | 491.435 | 15.57 | 491.380 | 8.960 | 491.310 | 4.211 | 491.375 | 12.05 | 491.300 | 4.964 | 491.055 | 0.000 |
| 20 | 491.420 | 12.78 * | 491.355 | 10.71 | 491.310 | 4.220 | 491.355 | 9.440 * | 491.295 | 4.626 * | 491.455 | 16.13 |
| 21 | 491.420 | 12.49 | 491.355 | 10.96 | 491.330 | 7.330 * | 491.350 | 11.32 | 491.305 | 5.029 | 491.350 | 8.986 * |
| 22 | 491.410 | 11.36 | 491.365 | 11.55 | 491.365 | 11.56 | 491.400 | 13.84 | 491.300 | 4.816 | 491.480 | 23.59 * |
| 23 | 491.400 | 9.852 | 491.355 | 10.53 | 491.350 | 10.74 | 491.425 | 14.97 | 491.295 | 4.626 # | 491.470 | 23.72 |
| 24 | 491.415 | 12.23 * | 491.350 | 9.875 * | 491.320 | 6.177 | 491.440 | 16.65 | 491.255 | 2.237 * | 491.485 | 28.46 |
| 25 | 491.410 | 11.69 * | 491.350 | 10.26 | 491.300 | 4.967 | 491.450 | 19.72 * | 491.320 | 7.210 | 491.435 | 21.77 |
| 26 | 491.400 | 9.830 | 491.350 | 9.875 * | 491.300 | 5.002 | 491.470 | 25.09 | 491.305 | 5.028 | 491.425 | 13.44 |
| 27 | 491.400 | 10.65 * | 491.350 | 10.72 | 491.290 | 3.685 | 491.465 | 21.62 * | 491.315 | 6.752 | 491.410 | 12.83 |
| 28 | 491.400 | 10.06 | 491.345 | 10.05 | 491.285 | 3.139 * | 491.450 | 21.42 | 491.220 | 0.962 | 491.415 | 14.17 |
| 29 | 491.410 | 11.83 | 491.375 | 12.04 | 491.285 | 2.467 | 491.445 | 20.86 | 491.230 | 1.038 | 491.425 | 16.72 * |
| 30 | 491.385 | 9.219 | 491.375 | 12.20 | | | 491.430 | 15.95 | 491.120 | 0.000 | 491.390 | 10.58 |
| 31 | 491.395 | 9.778 | 491.380 | 14.53 * | | | 491.385 | 12.57 | | | 491.385 | 9.737 |
| **Ten-Daily Mean** | | | | | | | | | | | | |
| I Ten-Daily | 491.464 | 23.42 | 491.391 | 9.495 | 491.333 | 7.897 | 491.330 | 7.785 | 491.214 | 5.802 | 491.128 | 0.983 |
| II Ten-Daily | 491.415 | 13.05 | 491.366 | 8.040 | 491.321 | 6.219 | 491.308 | 5.329 | 491.302 | 5.381 | 490.979 | 1.621 |
| III Ten-Daily | 491.404 | 10.82 | 491.359 | 11.14 | 491.314 | 6.119 | 491.428 | 17.64 | 491.267 | 3.770 | 491.425 | 16.73 |
| **Monthly** | | | | | | | | | | | | |
| Min. | 491.385 | 9.219 | 491.340 | 5.919 | 491.285 | 2.467 | 491.280 | 2.884 | 490.900 | 0.000 | 490.740 | 0.000 |
| Max. | 491.480 | 28.77 | 491.400 | 14.53 | 491.365 | 11.56 | 491.470 | 25.09 | 491.360 | 11.33 | 491.485 | 28.46 |
| Mean | 491.427 | 15.6 | 491.372 | 9.611 | 491.323 | 6.766 | 491.358 | 10.49 | 491.261 | 4.984 | 491.185 | 6.776 |

**Peak Computed Discharge = 125.4 cumecs on 10/11/2015 Corres. Water Level :491.76 m**

**Lowest Computed Discharge = 1.474 cumecs on 24/10/2015 Corres. Water Level :491.285 m**

Q: Observed/Computed Discharge in cumecs

WL:Corresponding Mean Water Level(m.s.l) in m

*:Computed Discharge

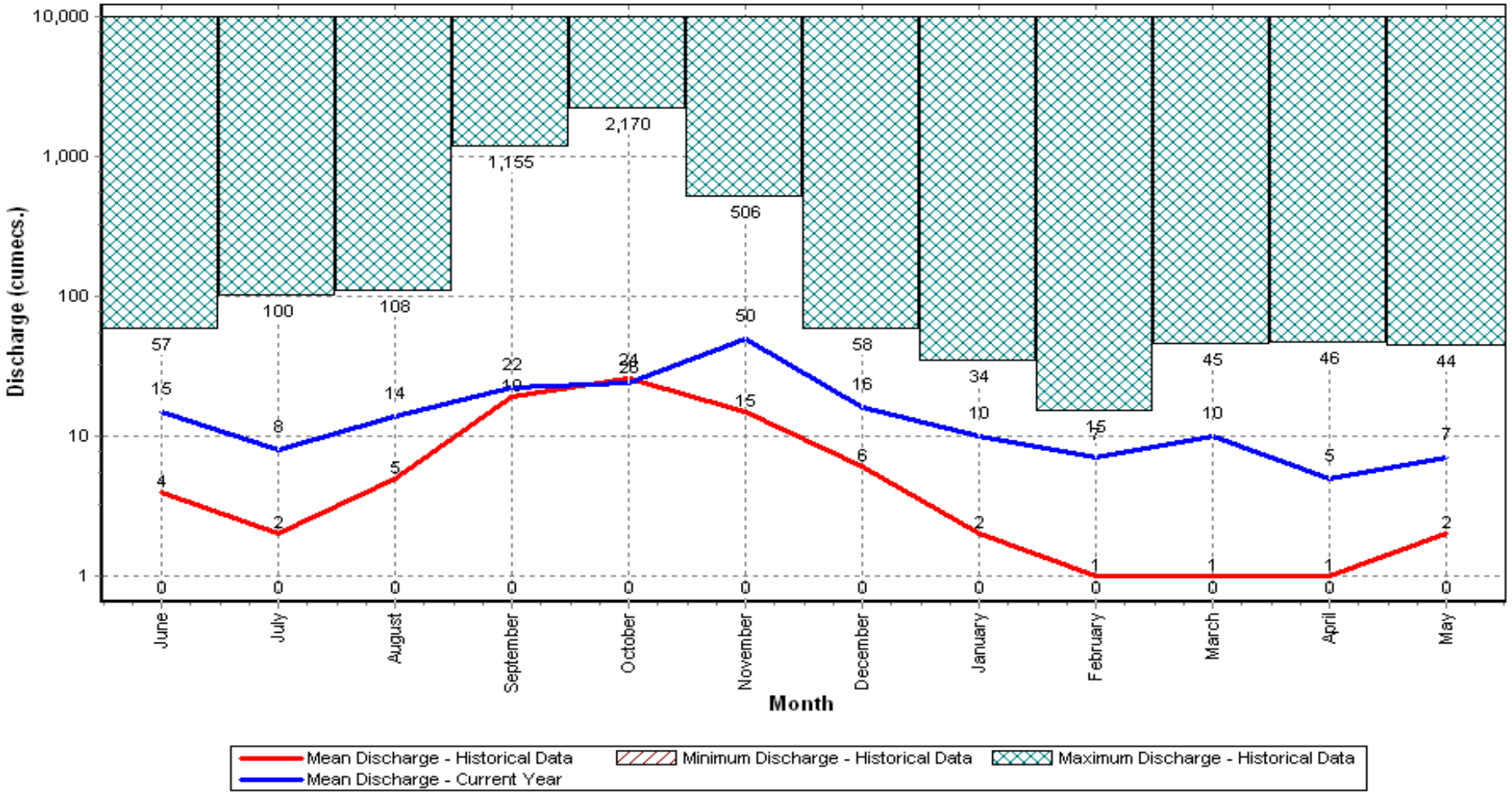
#:Discarded Discharge (values changed as per rating curve)

*Note:Missing values ignored while arriving at Annual Runoff*

**HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016**

**Station Name : Gummanur ( CP000R5)** | **Data considered : 1979-2016** | **Division : SR Division, Coimbatore**

**Local River : Ponnaiyar** | **Sub-Division : Lower Cauvery SD, Trichi**



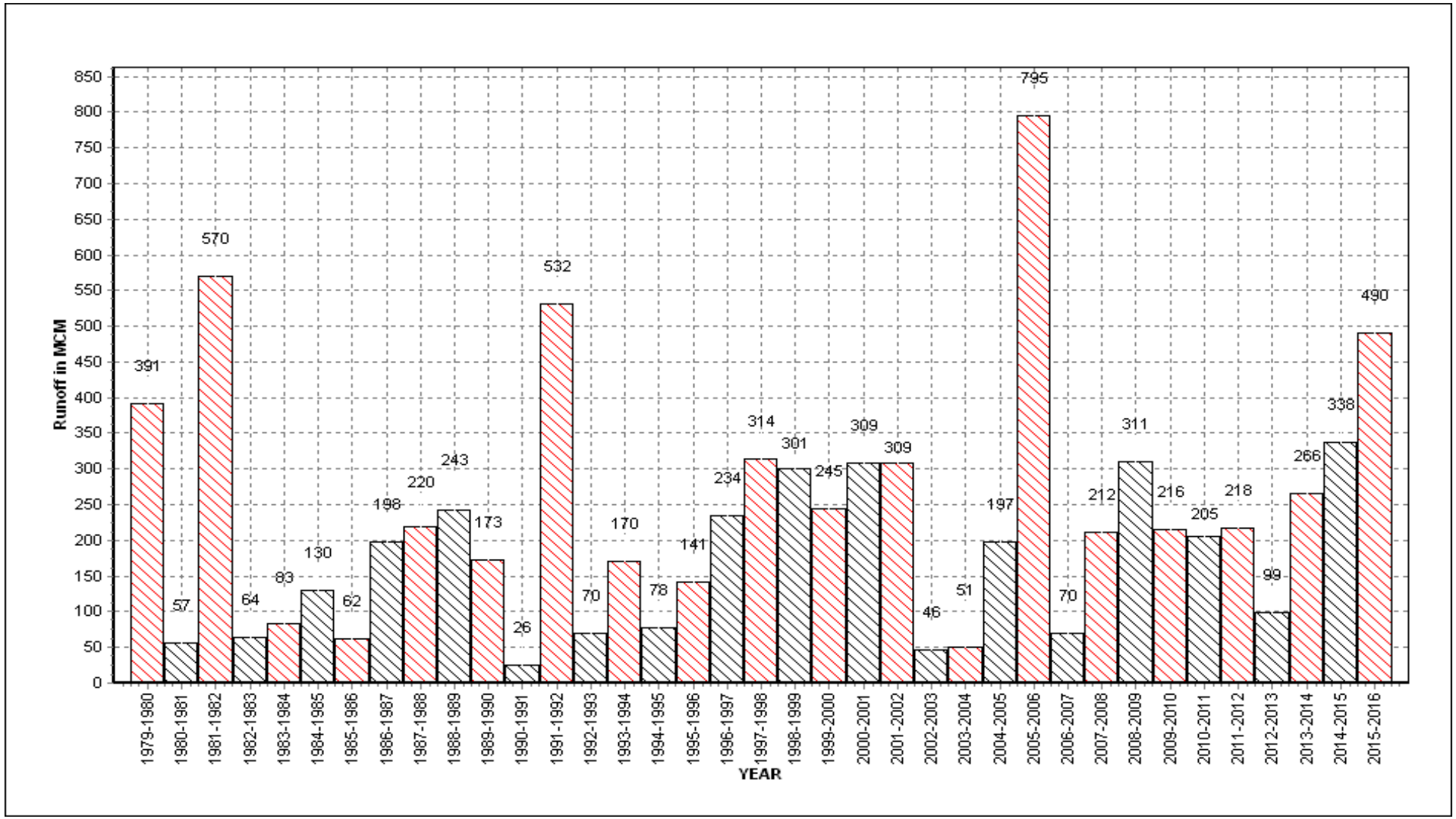
**Annual Runoff Values for the period: 1979 - 2016**

**Station Name : Gummanur ( CP000R5)**

**Local River : Ponnaiyar**

**Division : SR Division, Coimbatore**

**Sub-Division : Lower Cauvery SD, Trichi**




*Note: Missing values have not been considered while arriving at Annual Runoff*

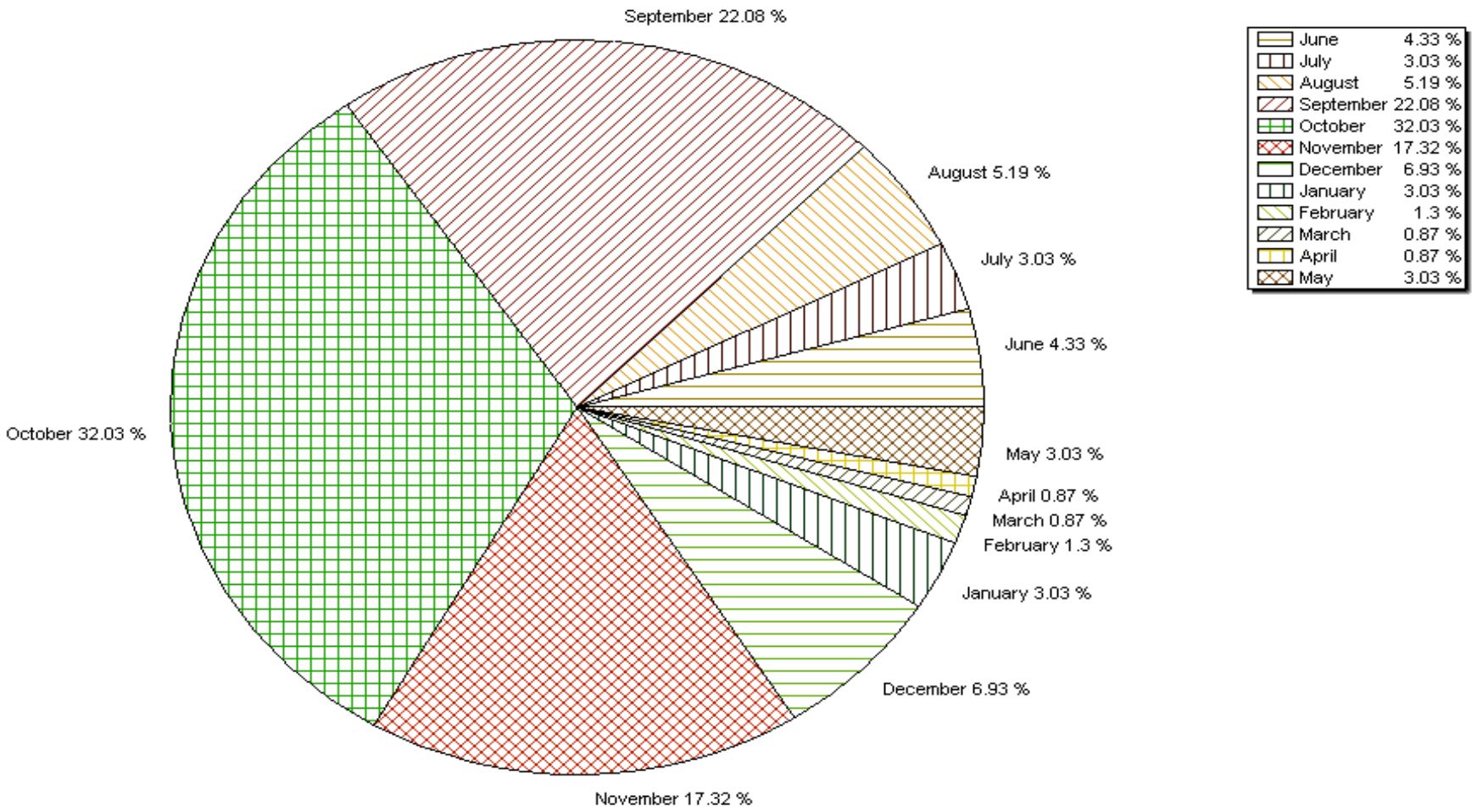
**Monthly Average Runoff based on period : 1979-2015**

**Station Name : Gummanur ( CP000R5)**

**Local River : Ponnaiyar**

**Division : SR Division, Coimbatore**

**Sub-Division : Lower Cauvery SD, Trichi**



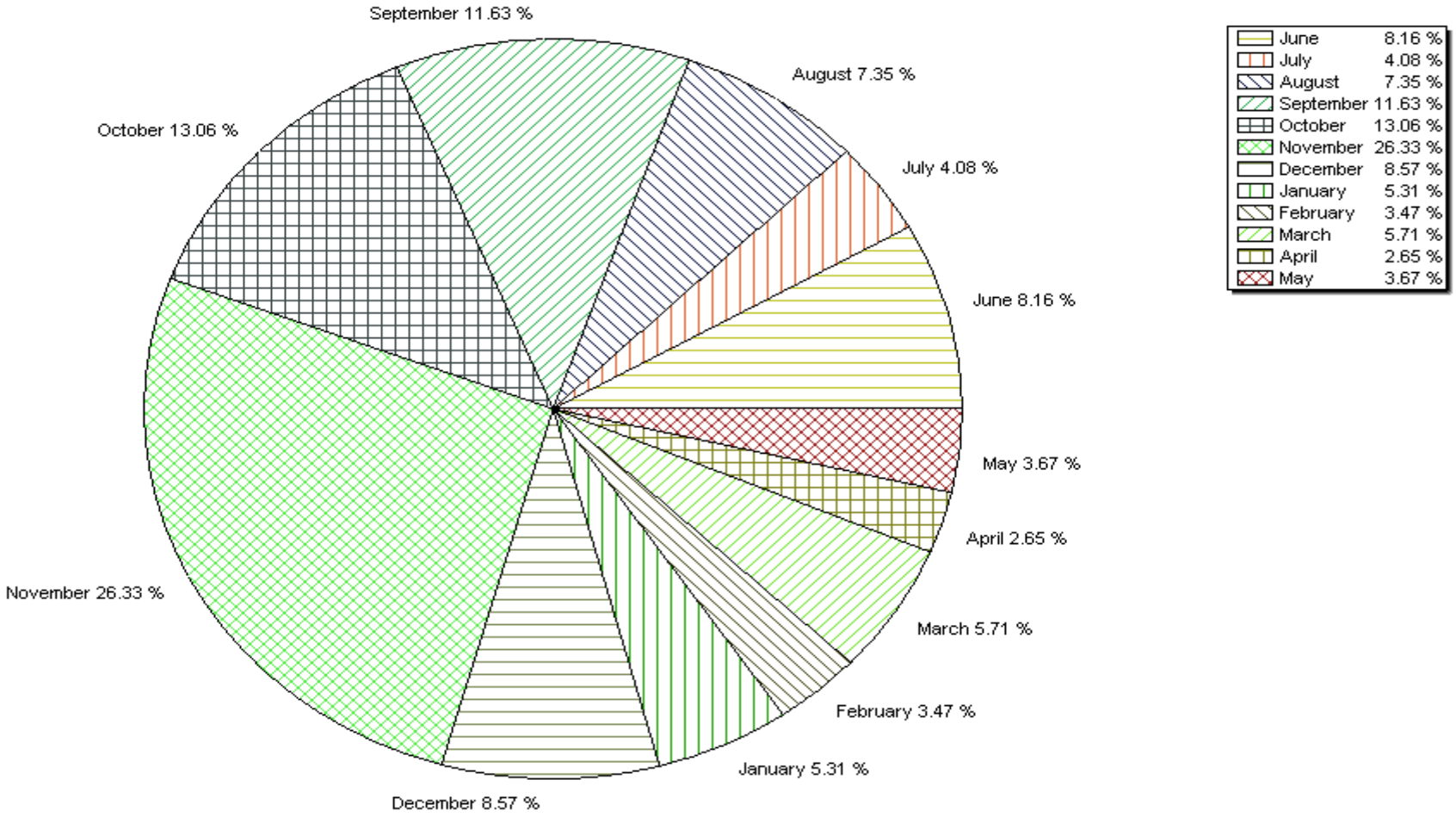
**Monthly Runoff for the Year : 2015-2016**

**Station Name : Gummanur ( CP000R5)**

**Local River : Ponnaiyar**

**Division : SR Division, Coimbatore**

**Sub-Division : Lower Cauvery SD, Trichi**



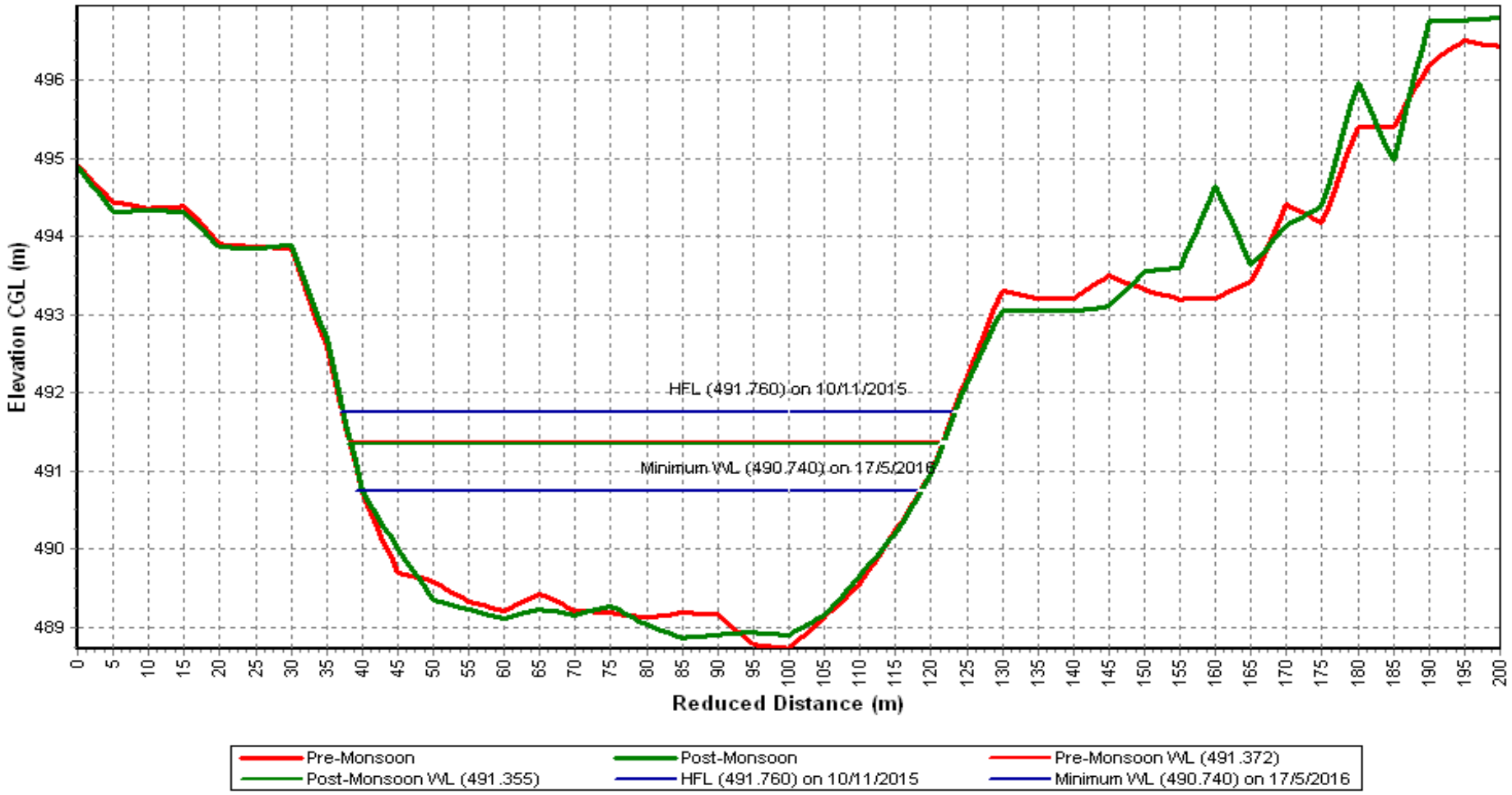
**Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2015-2016**

**Station Name : Gummanur ( CP000R5)**

**Local River : Ponnaiyar**

**Division : SR Division, Coimbatore**

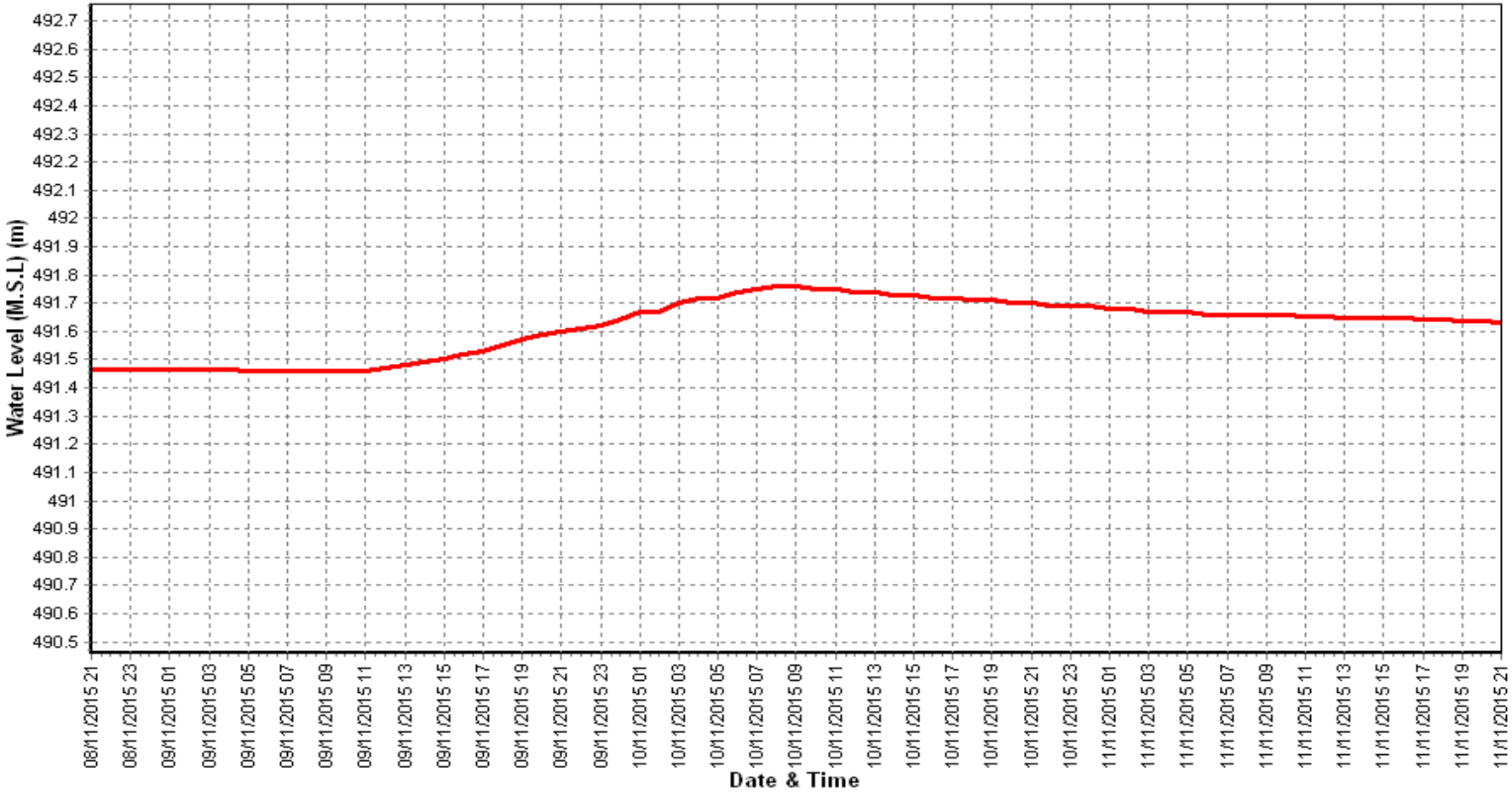
**Sub-Division : Lower Cauvery SD, Trichi**



**Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2015-2016**

**Station Name : Gummanur ( CP000R5)** **Division : SR Division, Coimbatore**

**Local River : Ponnaiyar** **Sub-Division : Lower Cauvery SD, Trichi**

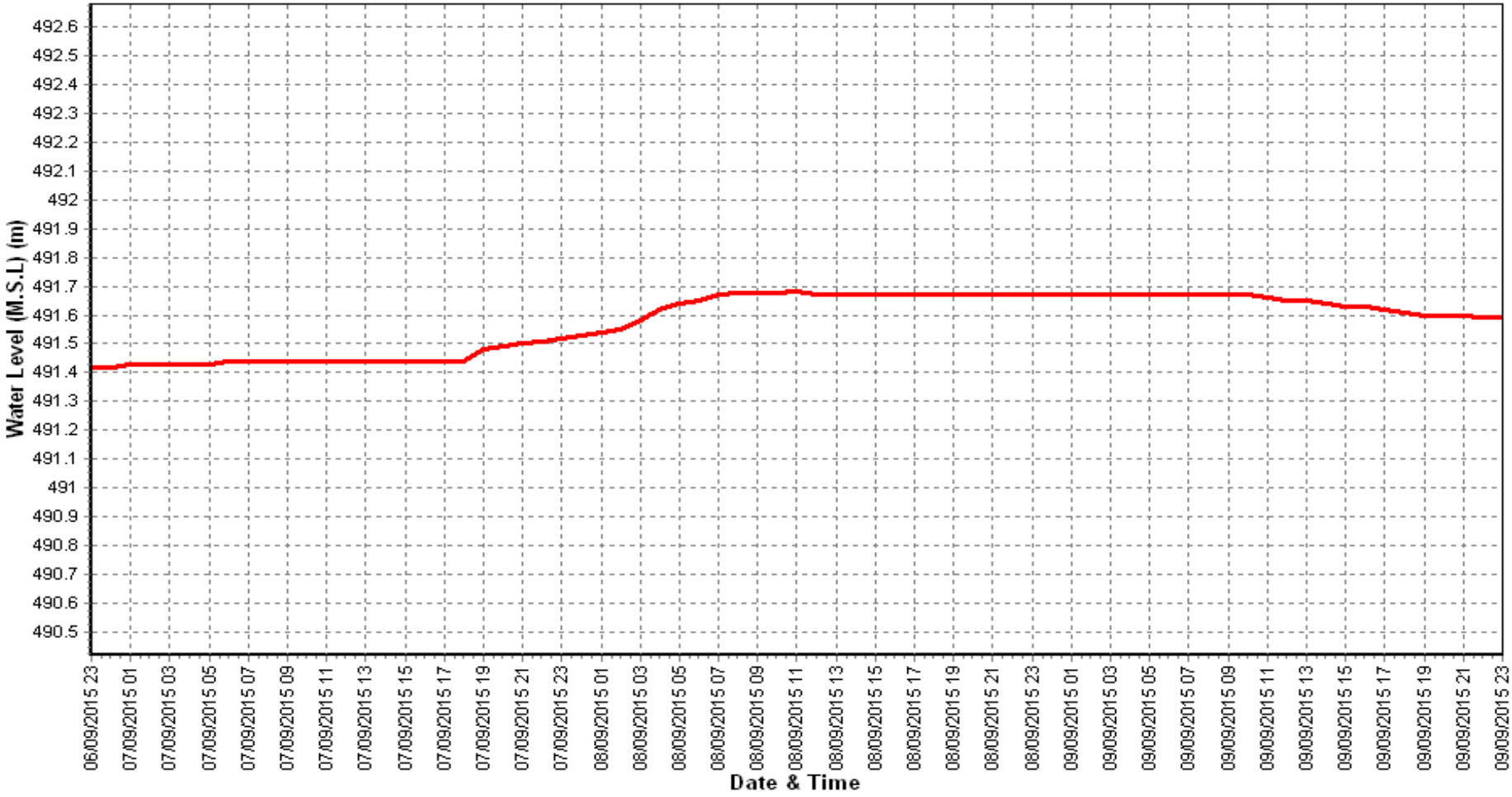



Time Span: 72 Hrs

**Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2015-2016**

**Station Name : Gummanur ( CP000R5)** **Division : SR Division, Coimbatore**

**Local River : Ponnaiyar** **Sub-Division : Lower Cauvery SD, Trichi**

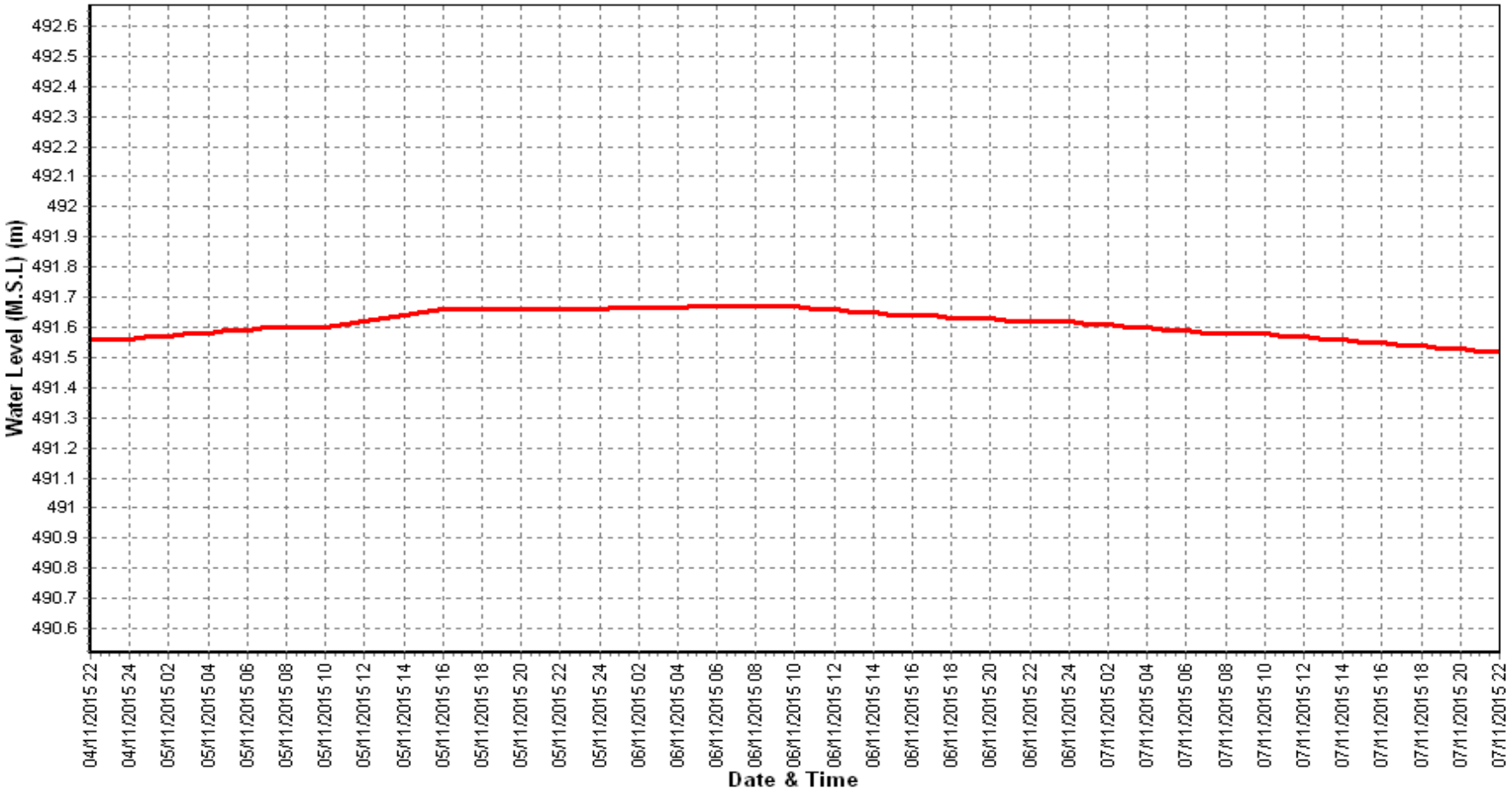



Time Span: 72 Hrs

**Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2015-2016**

**Station Name : Gummanur ( CP000R5)** **Division : SR Division, Coimbatore**

**Local River : Ponnaiyar** **Sub-Division : Lower Cauvery SD, Trichi**




Time Span: 72 Hrs

## HISTORY SHEET

**Water Year : 2015-2016**

| | | | | | |
|---|---|---|---|---|---|
| **Site** | : | **Kudalaiyathur** | **Code** | : | **CE000F6** |
| State | : | Tamil Nadu | District | | Cuddalore |
| Basin | : | EFR B Pennar-Cauvery | Independent River | : | Vellar |
| Tributary | : | - | Sub Tributary | : | |
| Sub-Sub Tributary | : | | Local River | : | Vellar |
| Division | : | Hydrology Division, Chennai | Sub-Division | : | Palar Ponnaiyar SD, Chennai |
| Drainage Area | : | 7890 Sq. Km. | Bank | : | Right |
| Latitude | : | 11°25'20" | Longitude | : | 79°28'15" |
| **Zero of Gauge (m)** | : | 41.000 (m.s.l)Arb<br>11.000 (m.s.l) | 14/11/1989<br>01/06/2005 | - | 31/05/2005 |
| | | Opening Date | Closing Date | | |
| Gauge | : | 14/11/1989 | | | |
| Discharge | : | 15/11/1989 | | | |
| Sediment | : | | | | |
| Water Quality | : | 01/06/1993 | | | |

**Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)**

| | Maximum | | | Minimum | | |
|---|---|---|---|---|---|---|
| **Year** | **Q (cumecs)** | **WL (m)** | **Date** | **Q (cumecs)** | **WL (m)** | **Date** |
| 1990-1991 | 0.000 | Dry Bed | 01/061990 | 0.000 | Dry Bed | 01/06/1990 |
| 1991-1992 | 1640 | 48.486 | 16/11/1991 | 0.000 | Dry Bed | 01/06/1991 |
| 1992-1993 | 1558 | 48.032 | 15/11/1992 | 0.000 | Dry Bed | 01/06/1992 |
| 1993-1994 | 2087 | 48.892 | 05/12/1993 | 0.000 | Dry Bed | 01/06/1993 |
| 1994-1995 | 497.0 | 46.400 | 06/11/1994 | 0.000 | Dry Bed | 01/06/1994 |
| 1995-1996 | 53.00 | 44.605 | 22/10/1995 | 0.000 | Dry Bed | 01/06/1995 |
| 1996-1997 | 342.0 | 47.800 | 16/12/1996 | 0.000 | Dry Bed | 01/06/1996 |
| 1997-1998 | 882.4 | 46.300 | 09/11/1997 | 0.000 | Dry Bed | 01/06/1997 |
| 1998-1999 | 2058 | 48.880 | 11/12/1998 | 0.000 | Dry Bed | 01/06/1998 |
| 1999-2000 | 404.3 | 45.680 | 23/11/1999 | 0.000 | Dry Bed | 01/06/1999 |
| 2000-2001 | 335.3 | 45.750 | 02/12/2000 | 0.000 | Dry Bed | 01/06/2000 |
| 2001-2002 | 3.619 | 43.760 | 04/02/2002 | 0.000 | Dry Bed | 01/06/2001 |
| 2002-2003 | 23.28 | 44.110 | 02/11/2002 | 0.000 | Dry Bed | 01/06/2002 |
| 2003-2004 | 43.22 | 44.545 | 10/11/2003 | 0.000 | Dry Bed | 01/06/2003 |
| 2004-2005 | 878.4 | 47.490 | 31/10/2004 | 0.000 | Dry Bed | 01/06/2004 |
| 2005-2006 | **Data not published-Site washed out in High Floods** | | | | | |
| 2006-2007 | 363.6 | 16.020 | 19/11/2006 | 0.000 | Dry Bed | 01/06/2006 |
| 2007-2008 | 904.4 | 17.500 | 20/12/2007 | 0.000 | Dry Bed | 01/06/2007 |

Q : Observed / Computed Discharge
WL : Corresponding Water Level(m.s.l)

**Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)**

| | Maximum | | | Minimum | | |
|---|---|---|---|---|---|---|
| **Year** | **Q (cumecs)** | **WL (m)** | **Date** | **Q (cumecs)** | **WL (m)** | **Date** |
| 2008-2009 | 1692 | 18.350 | 28/11/2008 | 0.000 | Dry Bed | 01/06/2008 |
| 2009-2010 | 532.8 | 15.600 | 17/12/2009 | 0.000 | Dry Bed | 01/06/2009 |
| 2010-2011 | 1633 | 18.160 | 02/12/2010 | 0.000 | Dry Bed | 01/06/2010 |
| 2011-2012 | 625.0 | 16.870 | 27/11/2011 | 0.000 | Dry Bed | 01/06/2011 |
| 2012-2013 | 68.68 | 14.020 | 02/11/2012 | 0.000 | Dry Bed | 01/06/2012 |
| 2013-2014 | 3.360 | 13.350 | 18/11/2013 | 0.000 | Dry Bed | 01/06/2013 |
| 2014-2015 | 8.619 | 13.435 | 15/11/2014 | 0.000 | Dry Bed | 01/06/2014 |

Q : Observed / Computed Discharge
WL : Corresponding Water Level(m.s.l)

## Stage-Discharge Data for the period 2015 - 2016

**Station Name : Kudalaiyathur ( CE000F6)** **Division : Hydrology Division, Chennai**

**Local River : Vellar** **Sub-Division : Palar Ponnaiyar SD, Chennai**

| Day | Jun | | Jul | | Aug | | Sep | | Oct | | Nov | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | W.L | Q | W.L | Q | W.L | Q | W.L | Q | W.L | Q | W.L | Q | |
| 1 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | |
| 2 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | |
| 3 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | |
| 4 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | |
| 5 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | |
| 6 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | |
| 7 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | |
| 8 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | |
| 9 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | |
| 10 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 14.000 | 79.52 | * |
| 11 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 14.400 | 175.7 | # |
| 12 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 13.850 | 63.72 | |
| 13 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 13.490 | 11.02 | |
| 14 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 13.270 | 3.453 | |
| 15 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 13.450 | 11.79 | * |
| 16 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 13.960 | 72.21 | # |
| 17 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 13.900 | 61.97 | # |
| 18 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 13.685 | 31.09 | |
| 19 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 13.480 | 11.76 | |
| 20 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 13.295 | 4.091 | |
| 21 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 13.335 | 7.121 | |
| 22 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 13.610 | 24.54 | * |
| 23 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 15.250 | 537.7 | |
| 24 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 14.800 | 316.9 | # |
| 25 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 14.200 | 122.3 | # |
| 26 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 13.750 | 41.44 | |
| 27 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 13.770 | 44.92 | |
| 28 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 13.545 | 21.50 | |
| 29 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 13.490 | 14.49 | * |
| 30 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 13.660 | 32.87 | |
| 31 | | | | 0.000 | | 0.000 | | | | 0.000 | | | |
| Ten-Daily Mean | | | | | | | | | | | | | |
| I Ten-Daily | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 14.000 | 7.952 | |
| II Ten-Daily | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 13.678 | 44.68 | |
| III Ten-Daily | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 13.941 | 116.4 | |
| Monthly | | | | | | | | | | | | | |
| Min. | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 13.270 | 0.000 | |
| Max. | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 15.250 | 537.7 | |
| Mean | | 0 | | 0 | | 0 | | 0 | | 0 | 13.819 | 56.34 | |

**Annual Runoff in MCM = 519 Annual Runoff in mm = 66**

**Peak Observed Discharge = 997.3 cumecs on 07/12/2015 Corres. Water Level :16.5 m**

**Lowest Observed Discharge = 0.000 cumecs on 01/06/2015**

Q: Observed/Computed Discharge in cumecs

WL:Corresponding Mean Water Level(m.s.l) in m

*:Computed Discharge

#:Discarded Discharge (values changed as per rating curve)

*Note:Missing values ignored while arriving at Annual Runoff*

## Stage-Discharge Data for the period 2015 - 2016

**Station Name : Kudalaiyathur ( CE000F6)** **Division : Hydrology Division, Chennai**

**Local River : Vellar** **Sub-Division : Palar Ponnaiyar SD, Chennai**

| Day | Dec | | Jan | | Feb | | Mar | | Apr | | May | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | W.L | Q | WL | Q | WL | Q | WL | Q | WL | Q | WL | Q |
| 1 | 13.910 | 132.7 # | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 2 | 14.350 | 207.1 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 3 | 14.730 | 300.4 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 4 | 14.480 | 257.7 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 5 | 14.410 | 256.4 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 6 | 16.300 | 897.1 * | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 7 | 16.500 | 997.3 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 8 | 15.240 | 477.6 * | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 9 | 14.500 | 274.8 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 10 | 14.030 | 155.4 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 11 | 13.950 | 72.34 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 12 | 13.910 | 61.54 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 13 | 13.680 | 44.79 * | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 14 | 13.580 | 36.59 * | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 15 | 13.520 | 32.11 # | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 16 | 13.450 | 27.29 # | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 17 | 13.260 | 16.39 # | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 18 | 13.460 | 27.95 # | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 19 | 13.190 | 15.11 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 20 | 13.080 | 8.837 * | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 21 | 13.000 | 7.016 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 22 | 12.910 | 3.772 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 23 | 12.890 | 3.201 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 24 | 12.840 | 2.608 * | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 25 | 12.790 | 1.813 * | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 26 | 12.720 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 27 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 28 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 29 | | 0.000 | | 0.000 | | 0.000 | | 0.000 * | | 0.000 | | 0.000 |
| 30 | | 0.000 | | 0.000 | | | | 0.000 | | 0.000 | | 0.000 |
| 31 | | 0.000 | | 0.000 | | | | 0.000 | | | | 0.000 |
| Ten-Daily Mean | | | | | | | | | | | | |
| I Ten-Daily | 14.845 | 395.6 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| II Ten-Daily | 13.508 | 34.29 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| III Ten-Daily | 12.858 | 1.674 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| Monthly | | | | | | | | | | | | |
| Min. | 12.720 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| Max. | 16.500 | 997.3 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| Mean | 13.872 | 139.3 | | 0 | | 0 | | 0 | | 0 | | 0 |

**Peak Computed Discharge = 897.1 cumecs on 06/12/2015** **Corres. Water Level :16.3 m**

**Lowest Computed Discharge = 0.000 cumecs on 29/03/2016**

Q: Observed/Computed Discharge in cumecs

WL:Corresponding Mean Water Level(m.s.l) in m

*:Computed Discharge

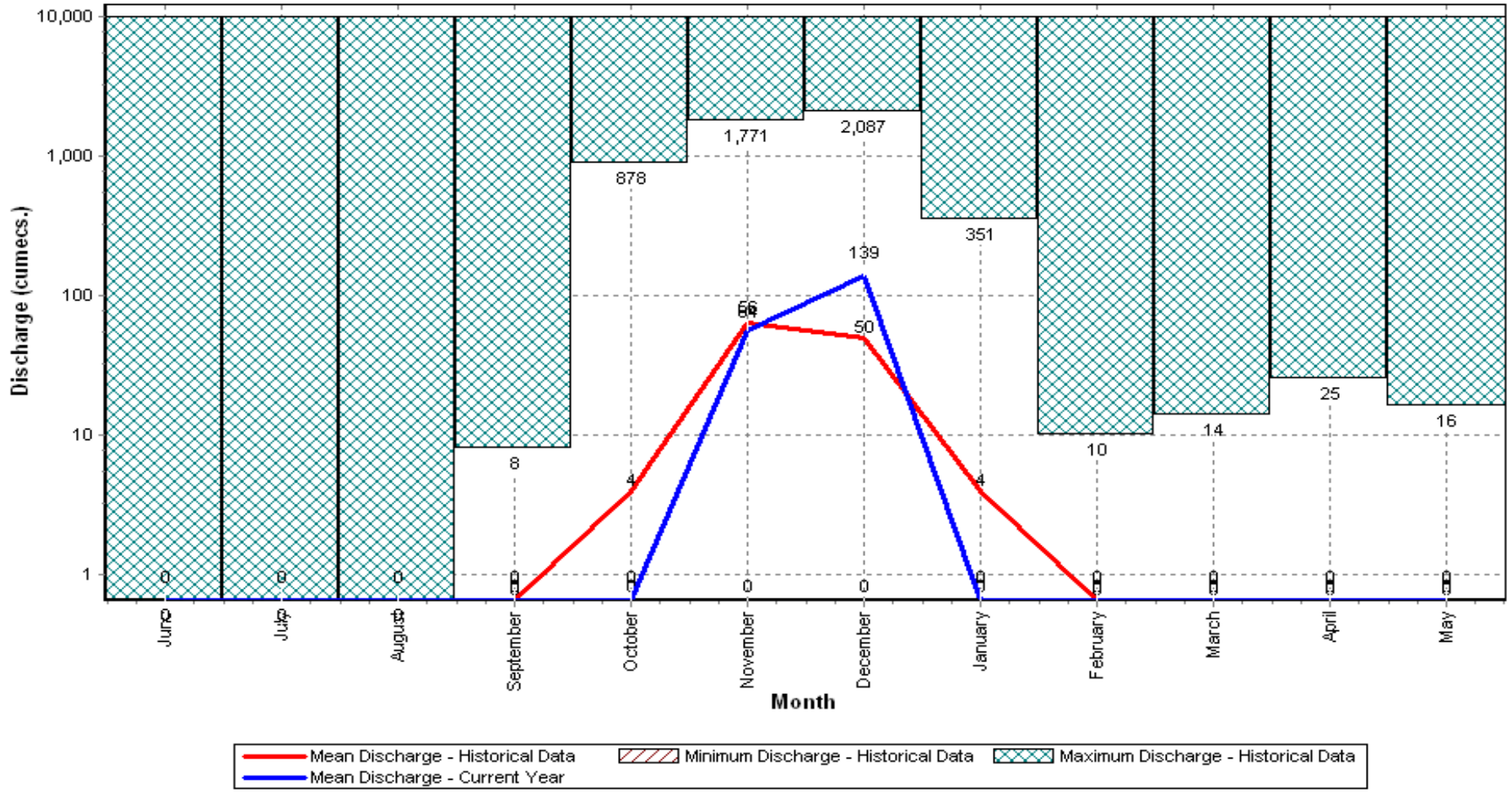
#:Discarded Discharge (values changed as per rating curve)

*Note:Missing values ignored while arriving at Annual Runoff*

**HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016**

**Station Name : Kudalaiyathur ( CE000F6)** | **Data considered : 1990-2016** | **Division : Hydrology Division, Chennai**

**Local River : Vellar** | **Sub-Division : Palar Ponnaiyar SD, Chennai**



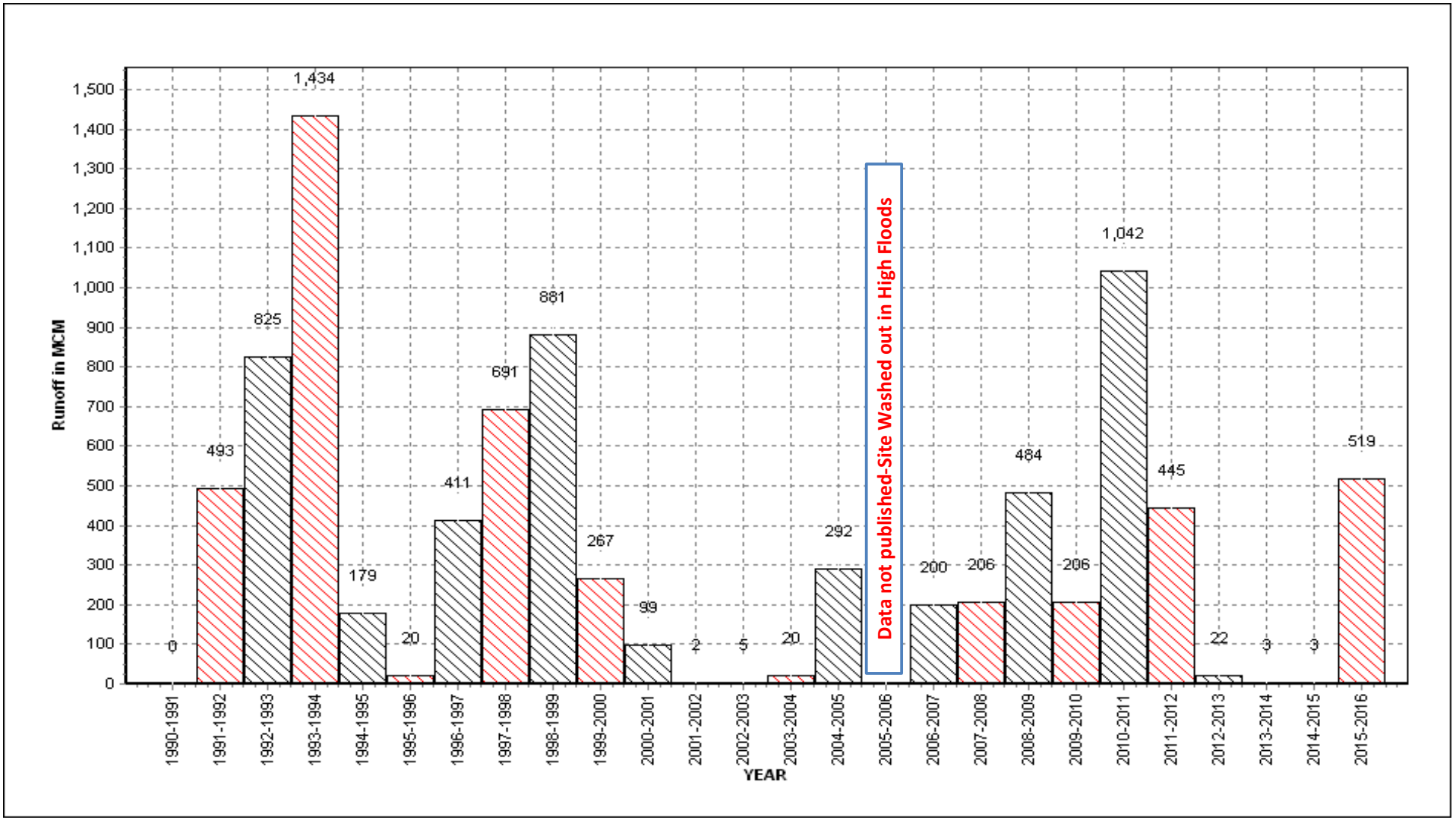
**Annual Runoff Values for the period: 1990 - 2016**

**Station Name : Kudalaiyathur ( CE000F6)**

**Local River : Vellar**

**Division : Hydrology Division, Chennai**

**Sub-Division : Palar Ponnaiyar SD, Chennai**




*Note: Missing values have not been considered while arriving at Annual Runoff*

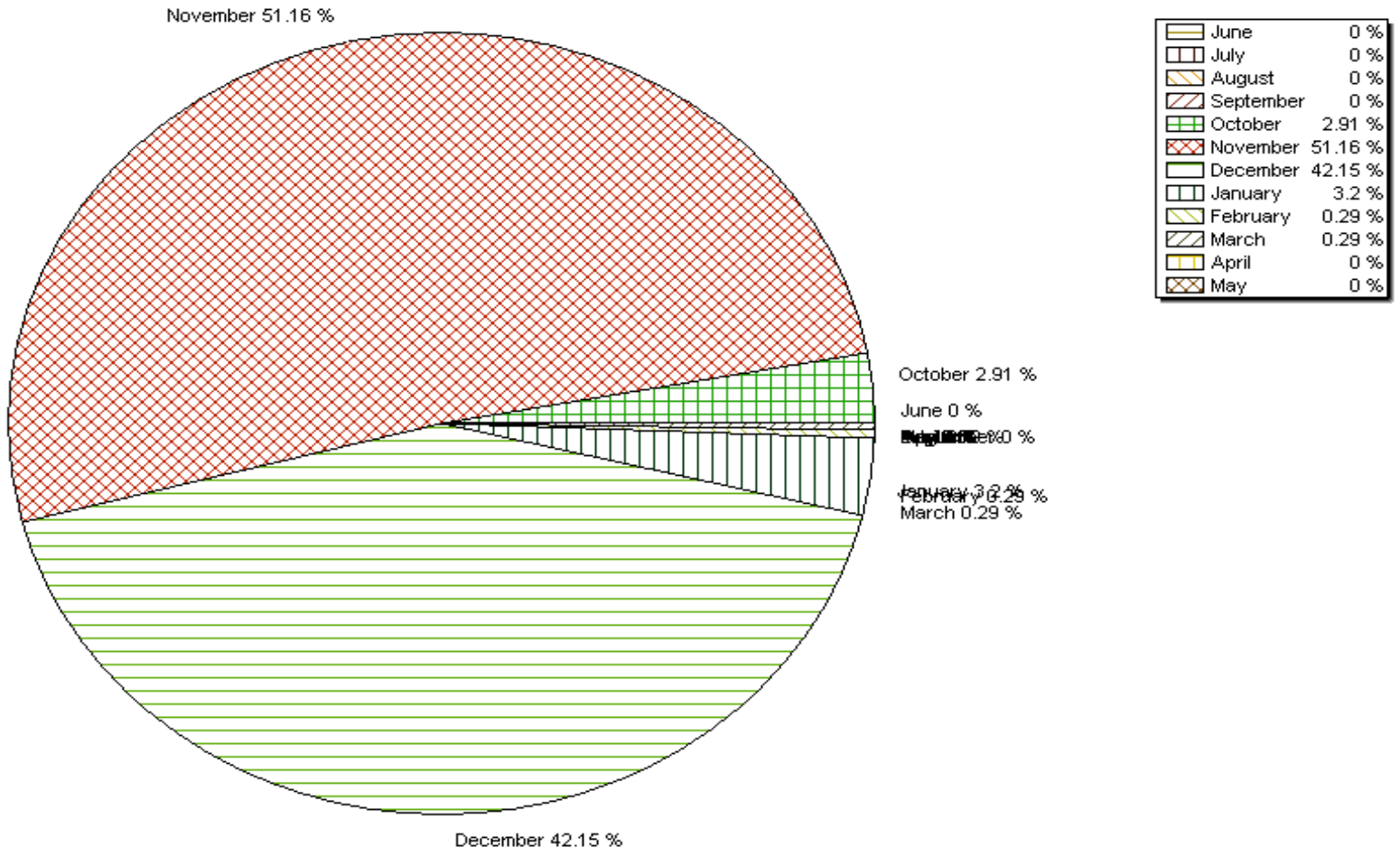
**Monthly Average Runoff based on period : 1990-2015**

**Station Name : Kudalaiyathur ( CE000F6)**

**Local River : Vellar**

**Division : Hydrology Division, Chennai**

**Sub-Division : Palar Ponnaiyar SD, Chennai**



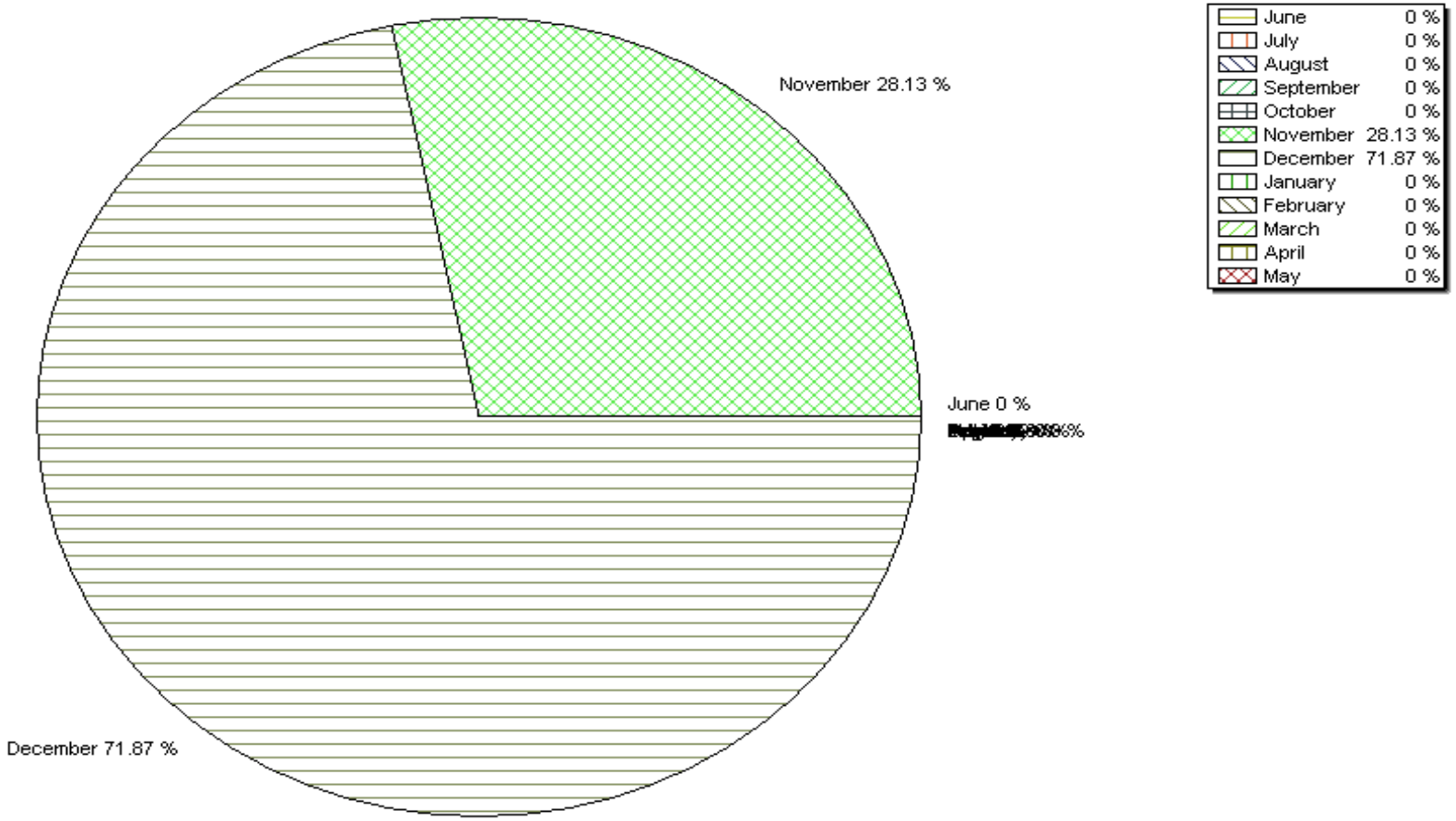
**Monthly Runoff for the Year : 2015-2016**

**Station Name : Kudalaiyathur ( CE000F6)**

**Local River : Vellar**

**Division : Hydrology Division, Chennai**

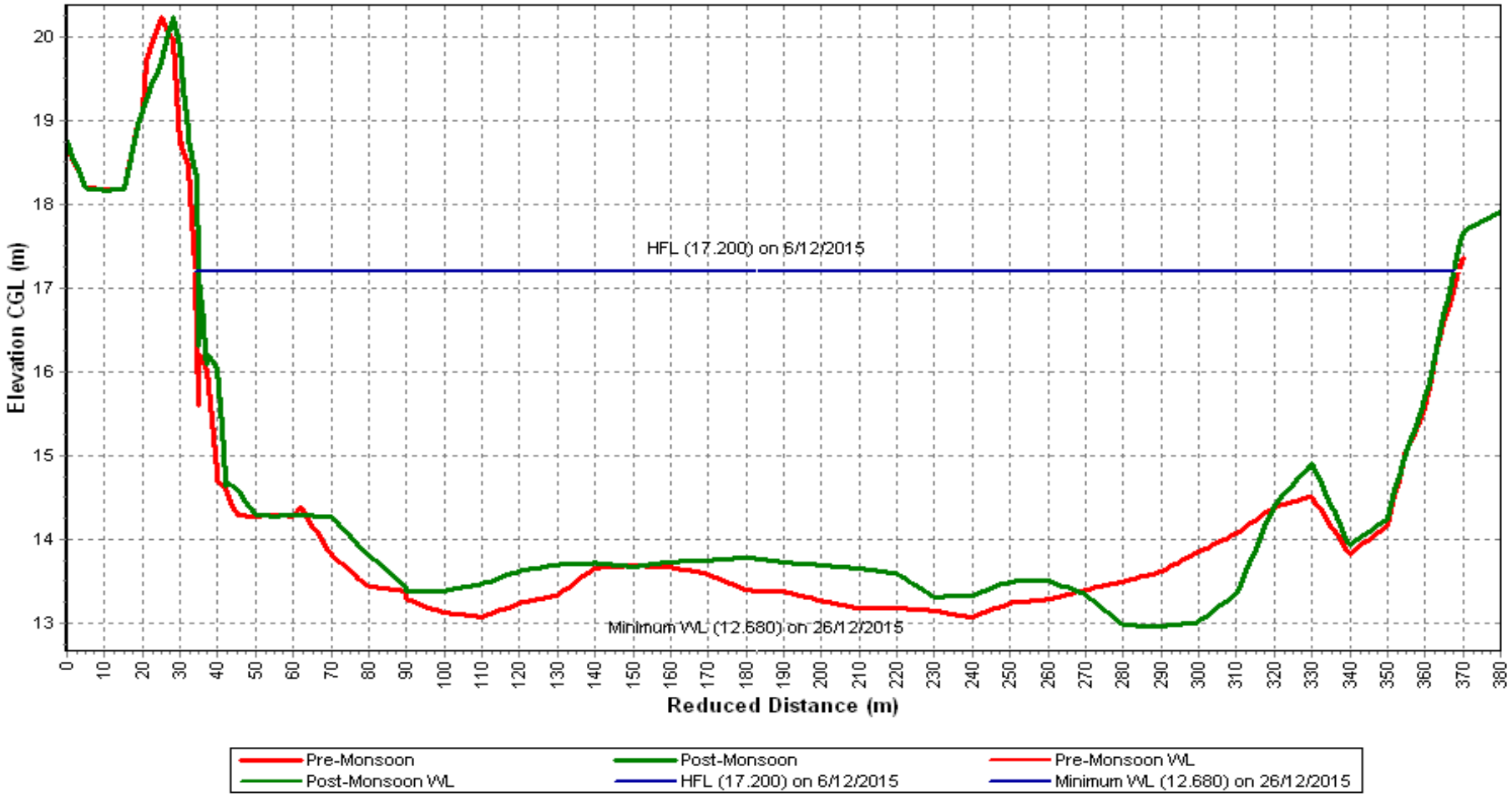
**Sub-Division : Palar Ponnaiyar SD, Chennai**



**Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2015-2016**

**Station Name : Kudalaiyathur ( CE000F6)** **Division : Hydrology Division, Chennai**

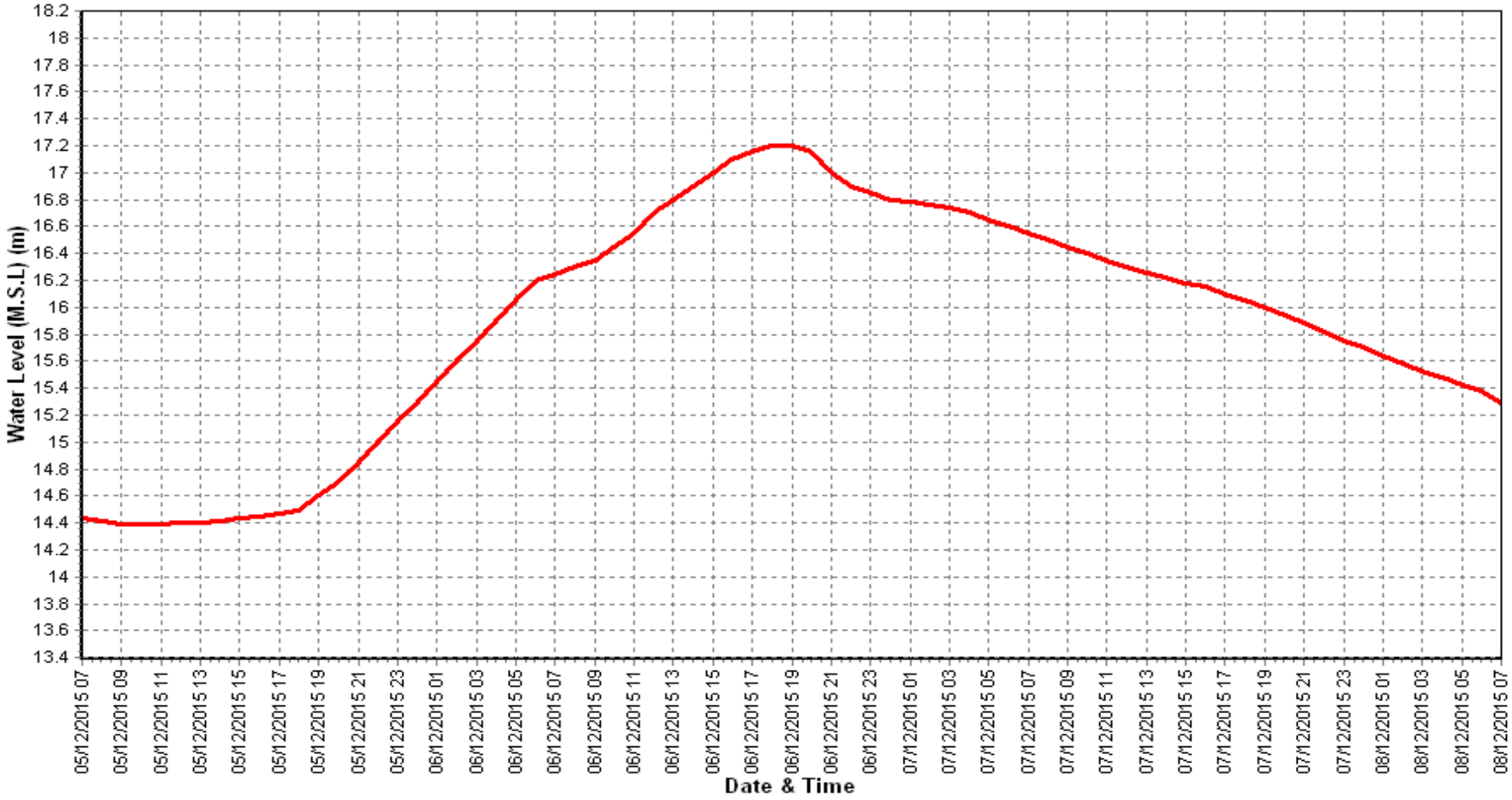
**Local River : Vellar** **Sub-Division : Palar Ponnaiyar SD, Chennai**



**Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2015-2016**

**Station Name : Kudalaiyathur ( CE000F6)** **Division : Hydrology Division, Chennai**

**Local River : Vellar** **Sub-Division : Palar Ponnaiyar SD, Chennai**

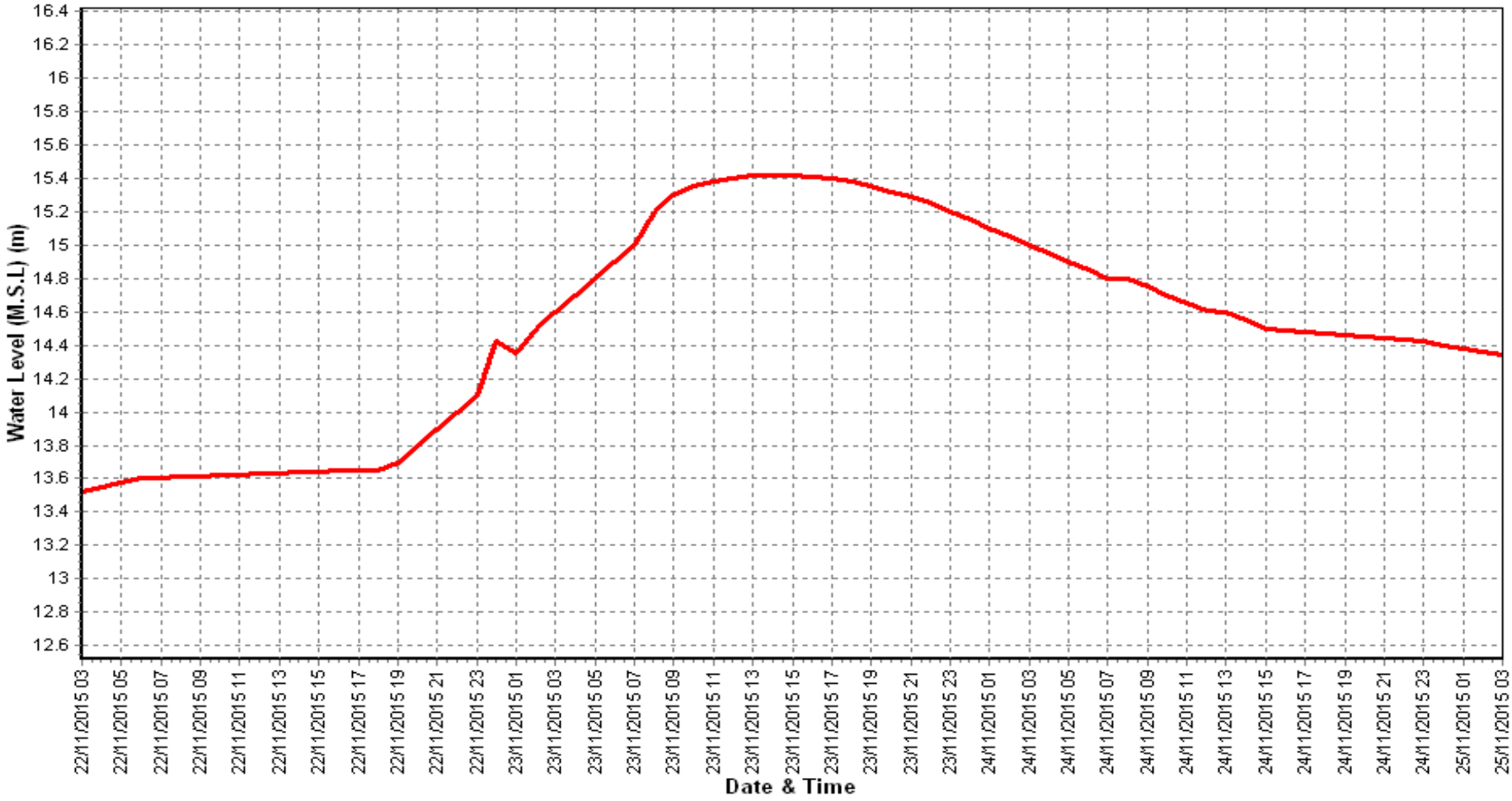



Time Span: 72 Hrs

**Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2015-2016**

**Station Name : Kudalaiyathur ( CE000F6)** **Division : Hydrology Division, Chennai**

**Local River : Vellar** **Sub-Division : Palar Ponnaiyar SD, Chennai**




Time Span: 72 Hrs

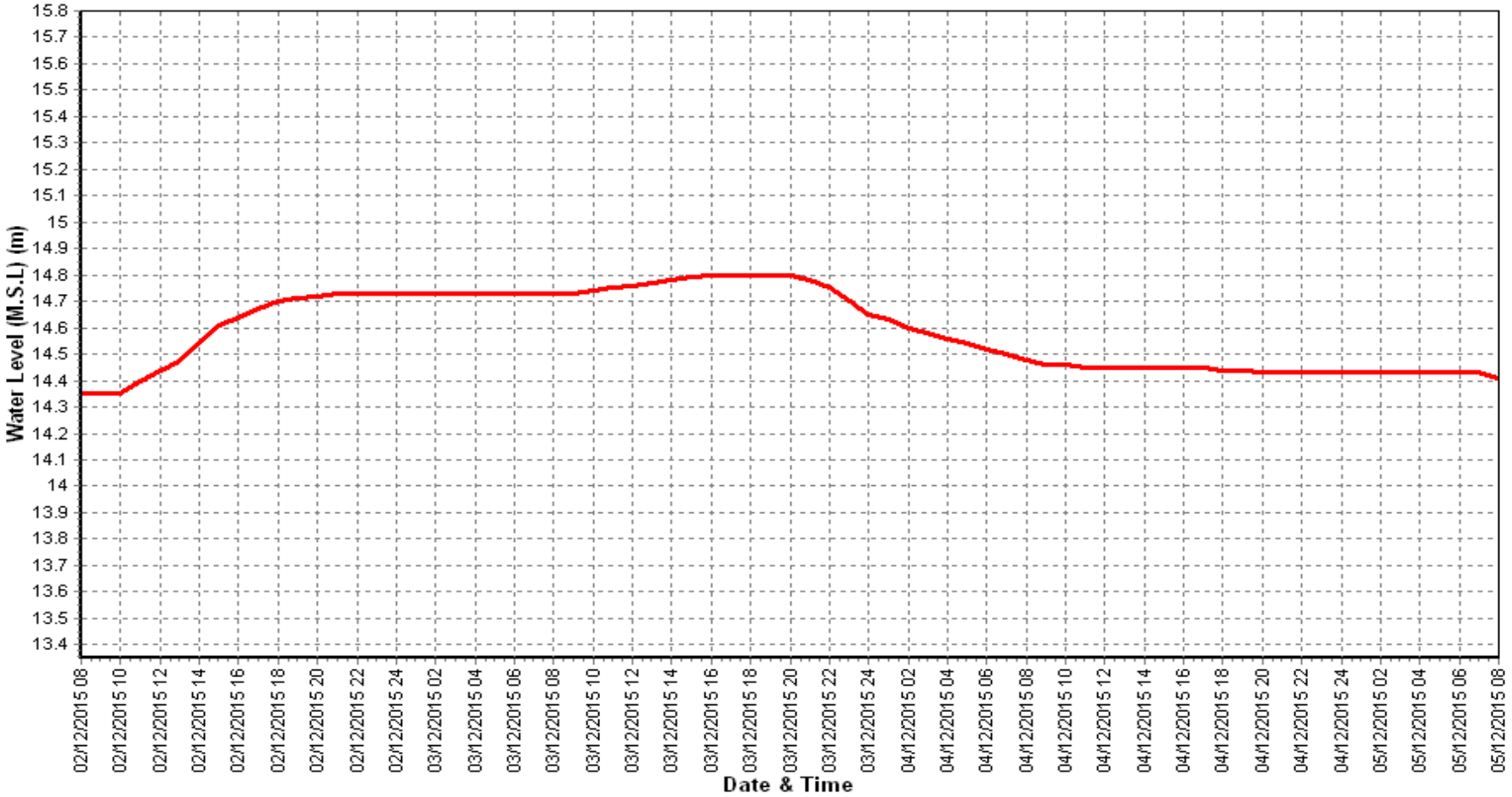
**Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2015-2016**

**Station Name : Kudalaiyathur ( CE000F6)**

**Local River : Vellar**

**Division : Hydrology Division, Chennai**

**Sub-Division : Palar Ponnaiyar SD, Chennai**




Time Span: 72 Hrs

## HISTORY SHEET

**Water Year : 2015-2016**

| | | | | | |
|---|---|---|---|---|---|
| **Site** | : | **PARAMAKUDI** | **Code** | : | **CV000F3** |
| State | : | Tamil Nadu | District | | Ramanathapuram |
| Basin | : | EFR South of Cauvery | Independent River | : | Vaigai |
| Tributary | : | - | Sub Tributary | : | - |
| Sub-Sub Tributary | : | - | Local River | : | Vaigai |
| Division | : | SR Division, Coimbatore | Sub-Division | : | Vaigai SD Madurai |
| Drainage Area | : | 6796 Sq. Km. | Bank | : | Right |
| Latitude | : | 09°33'12" | Longitude | : | 78°35'11" |
| **Zero of Gauge (m)** | : | 38.000 (m.s.l) | 25/10/1971 | | |
| | | Opening Date | Closing Date | | |
| Gauge | : | 25/10/1971 | | | |
| Discharge | : | 03/11/1971 | | | |
| Sediment | : | 01/03/2013 | | | |
| Water Quality | : | 05/11/1989 | | | |

**Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)**

| | Maximum | | | Minimum | | |
|---|---|---|---|---|---|---|
| **Year** | **Q (cumecs)** | **WL (m)** | **Date** | **Q (cumecs)** | **WL (m)** | **Date** |
| 1972-1973 | 151.4 | 39.650 | 04/11/1972 | 0.000 | Dry Bed | 01/06/1972 |
| 1973-1974 | 119.6 | 39.545 | 31/12/1973 | 0.000 | Dry Bed | 01/06/1973 |
| 1974-1975 | 27.50 | 38.850 | 23/10/1974 | 0.000 | Dry Bed | 01/06/1974 |
| 1975-1976 | 112.5 | 39.155 | 11/10/1975 | 0.000 | Dry Bed | 01/06/1975 |
| 1976-1977 | 78.14 | 38.925 | 29/11/1976 | 0.000 | Dry Bed | 01/06/1976 |
| 1977-1978 | 751.7 | 40.420 | 09/11/1977 | 0.000 | Dry Bed | 01/06/1977 |
| 1978-1979 | 63.80 | 39.225 | 29/12/1978 | 0.000 | Dry Bed | 01/06/1978 |
| 1979-1980 | 1950 | 41.385 | 20/11/1979 | 0.000 | Dry Bed | 01/06/1979 |
| 1980-1981 | 27.90 | 38.760 | 24/11/1980 | 0.000 | Dry Bed | 01/06/1980 |
| 1981-1982 | 216.0 | 39.700 | 01/11/1981 | 0.000 | Dry Bed | 01/06/1981 |
| 1982-1983 | 18.10 | 38.750 | 10/12/1982 | 0.000 | Dry Bed | 01/06/1982 |
| 1983-1984 | 751.2 | 40.475 | 08/03/1984 | 0.000 | Dry Bed | 01/06/1983 |
| 1984-1985 | 14.80 | 38.550 | 03/10/1984 | 0.000 | 38.190 | 03/06/1984 |
| 1985-1986 | 59.60 | 38.980 | 24/11/1985 | 0.000 | Dry Bed | 01/06/1985 |
| 1986-1987 | 0.000 | Dry Bed | 01/06/1986 | 0.000 | Dry Bed | 01/06/1986 |
| 1987-1988 | 65.94 | 38.980 | 07/11/1987 | 0.000 | Dry Bed | 01/06/1987 |
| 1988-1989 | 0.714 | 38.343 | 26/12/1988 | 0.000 | Dry Bed | 01/06/1988 |
| 1989-1990 | 83.78 | 39.065 | 10/01/1990 | 0.000 | Dry Bed | 01/06/1989 |
| 1990-1991 | 45.52 | 38.820 | 20/12/1990 | 0.000 | Dry Bed | 01/06/1990 |

Q : Observed / Computed Discharge
WL : Corresponding Water Level(m.s.l)

**Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)**

| | Maximum | | | Minimum | | |
|---|---|---|---|---|---|---|
| **Year** | **Q (cumecs)** | **WL (m)** | **Date** | **Q (cumecs)** | **WL (m)** | **Date** |
| 1991-1992 | 3.949 | 38.417 | 07/01/1992 | 0.000 | Dry Bed | 01/06/1991 |
| 1992-1993 | 373.2 | 39.807 | 16/11/1992 | 0.000 | Dry Bed | 01/06/1992 |
| 1993-1994 | 1229 | 40.601 | 11/11/1993 | 0.000 | Dry Bed | 01/06/1993 |
| 1994-1995 | 355.4 | 39.832 | 05/11/1994 | 0.000 | Dry Bed | 01/06/1994 |
| 1995-1996 | 0.000 | Dry Bed | 01/06/1995 | 0.000 | Dry Bed | 01/06/1995 |
| 1996-1997 | 34.61 | 38.530 | 24/11/1996 | 0.000 | Dry Bed | 01/06/1996 |
| 1997-1998 | 381.2 | 39.720 | 26/11/1997 | 0.000 | Dry Bed | 01/06/1997 |
| 1998-1999 | 995.0 | 40.800 | 12/12/1998 | 0.000 | Dry Bed | 01/06/1998 |
| 1999-2000 | 37.40 | 38.500 | 20/10/1999 | 0.000 | Dry Bed | 01/06/1999 |
| 2000-2001 | 29.98 | 38.450 | 20/12/2000 | 0.000 | Dry Bed | 01/06/2000 |
| 2001-2002 | 34.17 | 38.510 | 30/09/2001 | 0.000 | Dry Bed | 01/06/2001 |
| 2002-2003 | 11.14 | 38.240 | 16/12/2002 | 0.000 | Dry Bed | 01/06/2002 |
| 2003-2004 | 0.000 | Dry Bed | 01/06/2003 | 0.000 | Dry Bed | 01/06/2003 |
| 2004-2005 | 47.24 | 38.620 | 02/11/2004 | 0.000 | Dry Bed | 01/06/2004 |
| 2005-2006 | 845.5 | 39.870 | 25/11/2005 | 0.000 | Dry Bed | 01/06/2005 |
| 2006-2007 | 100.5 | 38.600 | 24/11/2006 | 0.000 | Dry Bed | 01/06/2006 |
| 2007-2008 | 293.6 | 39.180 | 21/12/2007 | 0.000 | Dry Bed | 01/06/2007 |
| 2008-2009 | 81.48 | 38.510 | 24/10/2008 | 0.000 | Dry Bed | 01/06/2008 |
| 2009-2010 | 32.14 | 38.250 | 02/12/2009 | 0.000 | Dry Bed | 01/06/2009 |
| 2010-2011 | 62.89 | 39.050 | 25/11/2010 | 0.000 | Dry Bed | 01/06/2010 |
| 2011-2012 | 41.71 | 38.080 | 30/11/2011 | 0.000 | Dry Bed | 01/06/2011 |
| 2012-2013 | 0.000 | Dry Bed | 01/06/2012 | 0.000 | Dry Bed | 01/06/2012 |
| 2013-2014 | 0.000 | Dry Bed | 01/06/2013 | 0.000 | Dry Bed | 01/06/2013 |
| 2014-2015 | 36.66 | 38.500 | 26/11/2014 | 0.000 | Dry Bed | 01/06/2014 |

Q : Observed / Computed Discharge
WL : Corresponding Water Level(m.s.l)

## Stage-Discharge Data for the period 2015 - 2016

**Station Name : PARAMAKUDI ( CV000F3)** **Division : SR Division, Coimbatore**

**Local River : Vaigai** **Sub-Division : Vaigai SD Madurai**

| Day | Jun | | Jul | | Aug | | Sep | | Oct | | Nov | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | W.L | Q | W.L | Q | W.L | Q | W.L | Q | W.L | Q | W.L | Q |
| 1 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 2 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 3 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 4 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 5 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 6 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 7 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 8 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 9 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 10 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 11 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 12 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 13 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 14 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 15 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 16 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 17 | | 0.000 | | DRY BED | | | | | | 0.000 | | 0.000 |
| 18 | | 0.000 | | | | | | | | 0.000 | | 0.000 |
| 19 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 20 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 21 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 22 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 23 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 24 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 25 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 26 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 27 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 28 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 29 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 30 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 31 | | | | 0.000 | | 0.000 | | | | 0.000 | | |
| Ten-Daily Mean | | | | | | | | | | | | |
| I Ten-Daily | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| II Ten-Daily | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| III Ten-Daily | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| Monthly | | | | | | | | | | | | |
| Min. | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| Max. | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| Mean | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |

**Annual Runoff in MCM = 71 Annual Runoff in mm = 10**

**Peak Observed Discharge = 41.55 cumecs on 07/12/2015 Corres. Water Level :38.43 m**

**Lowest Observed Discharge = 0.000 cumecs on 01/06/2015**

Q: Observed/Computed Discharge in cumecs

WL:Corresponding Mean Water Level(m.s.l) in m

*:Computed Discharge

*Note:Missing values ignored while arriving at Annual Runoff*

## Stage-Discharge Data for the period 2015 - 2016

**Station Name : PARAMAKUDI ( CV000F3)** **Division : SR Division, Coimbatore**

**Local River : Vaigai** **Sub-Division : Vaigai SD Madurai**

| Day | Dec | | Jan | | Feb | | Mar | | Apr | | May | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | W.L | Q | WL | Q | WL | Q | WL | Q | WL | Q | WL | Q |
| 1 | | 0.000 | 37.430 | 0.000 | 37.200 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 2 | | 0.000 | 37.420 | 0.000 | 37.180 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 3 | 38.400 | 36.21 | 37.400 | 0.000 | 37.170 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 4 | 38.420 | 38.52 | 37.400 | 0.000 | 37.160 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 5 | 38.350 | 31.00 | 37.400 | 0.000 | 37.150 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 6 | 38.380 | 35.88 * | 37.390 | 0.000 | 37.140 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 7 | 38.430 | 41.55 | 37.380 | 0.000 | 37.130 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 8 | 38.400 | 38.08 | 38.000 | 26.89 | 37.120 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 9 | 38.420 | 40.07 | 37.940 | 24.06 | 37.100 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 10 | 38.350 | 34.01 | 37.930 | 22.83 * | 37.080 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 11 | 38.400 | 38.96 | 37.900 | 21.64 | 37.060 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 12 | 38.320 | 30.07 | 37.850 | 16.85 | 37.040 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 13 | 38.350 | 33.01 * | 37.830 | 18.20 * | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 14 | 38.380 | 35.84 | 37.780 | 16.08 * | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 15 | 38.240 | 23.79 | 37.690 | 12.59 * | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 16 | 38.140 | 15.23 | 37.600 | 9.202 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 17 | 38.000 | 9.091 | 37.520 | 7.167 * | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 18 | 38.010 | 9.889 | 37.610 | 10.54 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 19 | 37.830 | 2.233 | 37.500 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 20 | 37.830 | 23.92 * | 37.470 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 21 | 37.800 | 21.66 | 37.510 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 22 | 37.710 | 16.93 | 37.430 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 23 | 37.680 | 15.25 | 37.430 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 24 | 37.670 | 14.70 * | 37.380 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 25 | 37.650 | 13.72 * | 37.350 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 26 | 37.640 | 14.24 | 37.330 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 27 | 37.630 | 12.78 * | 37.300 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 28 | 37.620 | 11.49 | 37.250 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 29 | 37.530 | 0.000 | 37.220 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 30 | 37.470 | 0.000 | 37.220 | 0.000 | | | | 0.000 | | 0.000 | | 0.000 |
| 31 | 37.450 | 0.000 | 37.210 | 0.000 | | | | 0.000 | | | | 0.000 |
| **Ten-Daily Mean** | | | | | | | | | | | | |
| I Ten-Daily | 38.394 | 29.53 | 37.569 | 7.378 | 37.143 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| II Ten-Daily | 38.150 | 22.20 | 37.675 | 11.23 | 37.050 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| III Ten-Daily | 37.623 | 10.98 | 37.330 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| **Monthly** | | | | | | | | | | | | |
| Min. | 37.450 | 0.000 | 37.210 | 0.000 | 37.040 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| Max. | 38.430 | 41.55 | 38.000 | 26.89 | 37.200 | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| Mean | 38.017 | 20.58 | 37.518 | 6.002 | 37.127 | 0 | | 0 | | 0 | | 0 |

**Peak Computed Discharge = 35.88 cumecs on 06/12/2015** **Corres. Water Level :38.38 m**

**Lowest Computed Discharge = 7.167 cumecs on 17/01/2016** **Corres. Water Level :37.52 m**

Q: Observed/Computed Discharge in cumecs

WL:Corresponding Mean Water Level(m.s.l) in m

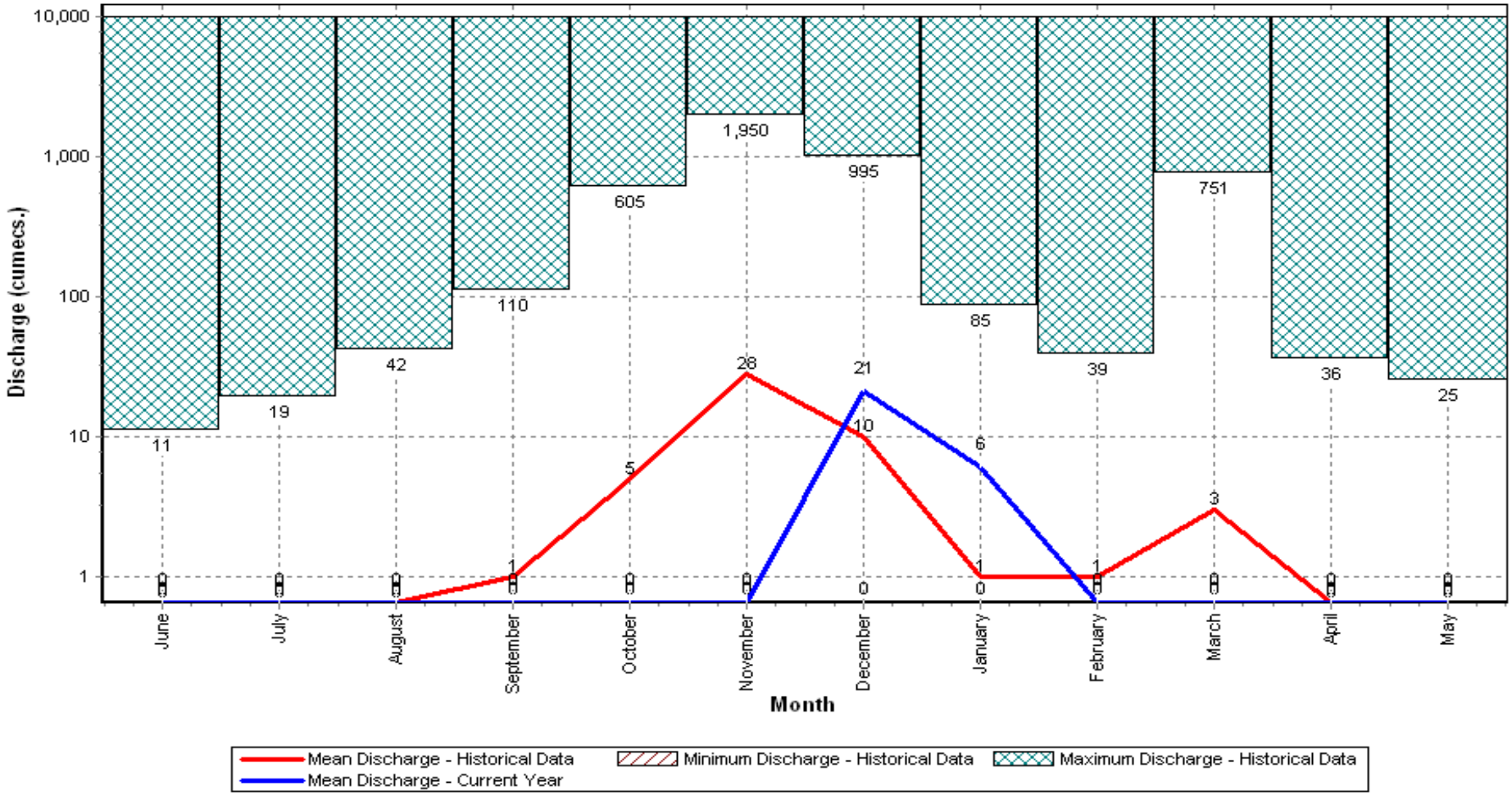
*:Computed Discharge

*Note:Missing values ignored while arriving at Annual Runoff*

**HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016**

**Station Name : PARAMAKUDI ( CV000F3)** | **Data considered : 1972-2016** | **Division : SR Division, Coimbatore**

**Local River : Vaigai** | **Sub-Division : Vaigai SD Madurai**



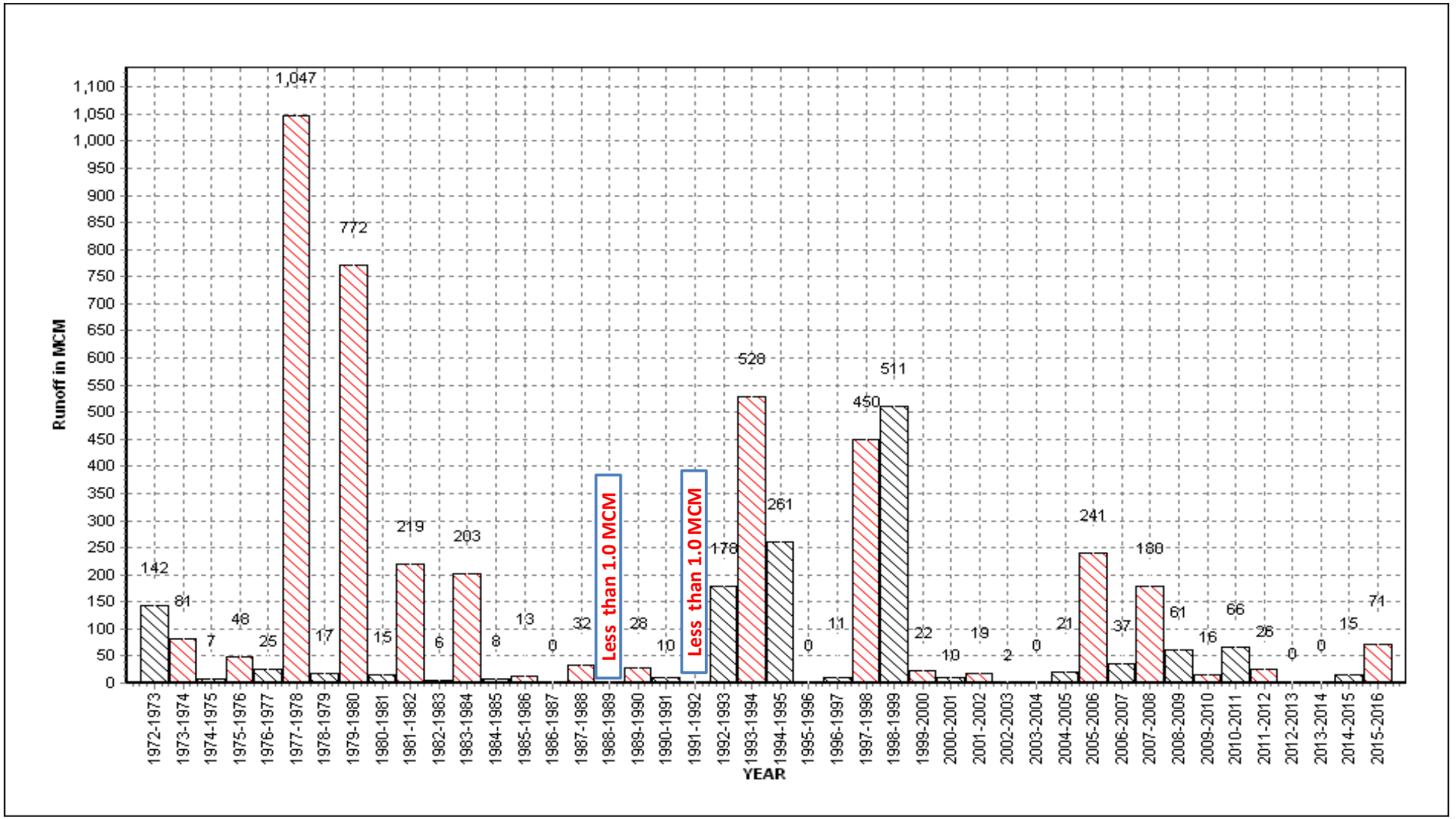
**Annual Runoff Values for the period: 1972 - 2016**

**Station Name : PARAMAKUDI ( CV000F3)**

**Local River : Vaigai**

**Division : SR Division, Coimbatore**

**Sub-Division : Vaigai SD Madurai**




*Note: Missing values have not been considered while arriving at Annual Runoff*

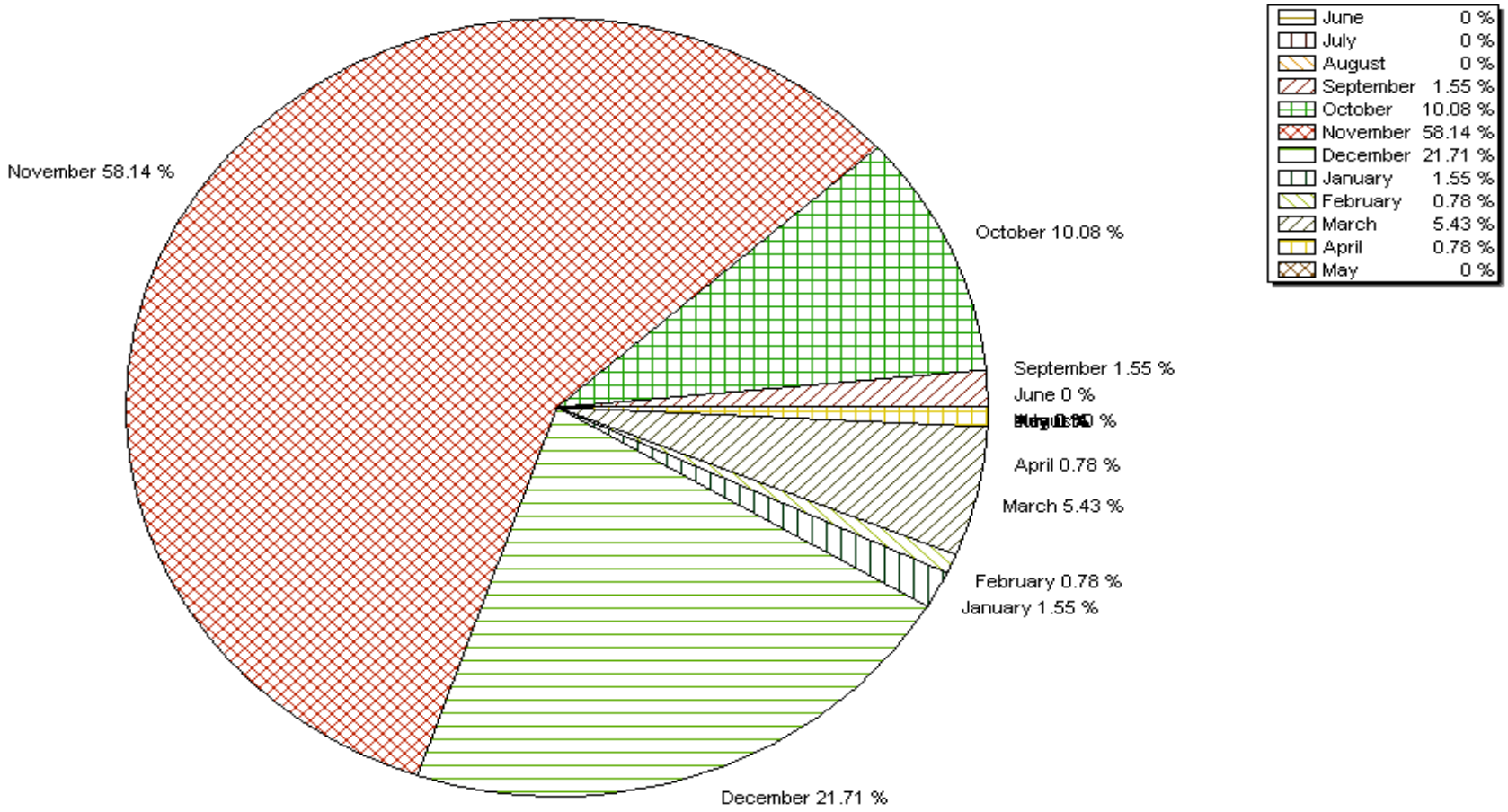
**Monthly Average Runoff based on period : 1972-2015**

**Station Name : PARAMAKUDI ( CV000F3)**

**Local River : Vaigai**

**Division : SR Division, Coimbatore**

**Sub-Division : Vaigai SD Madurai**



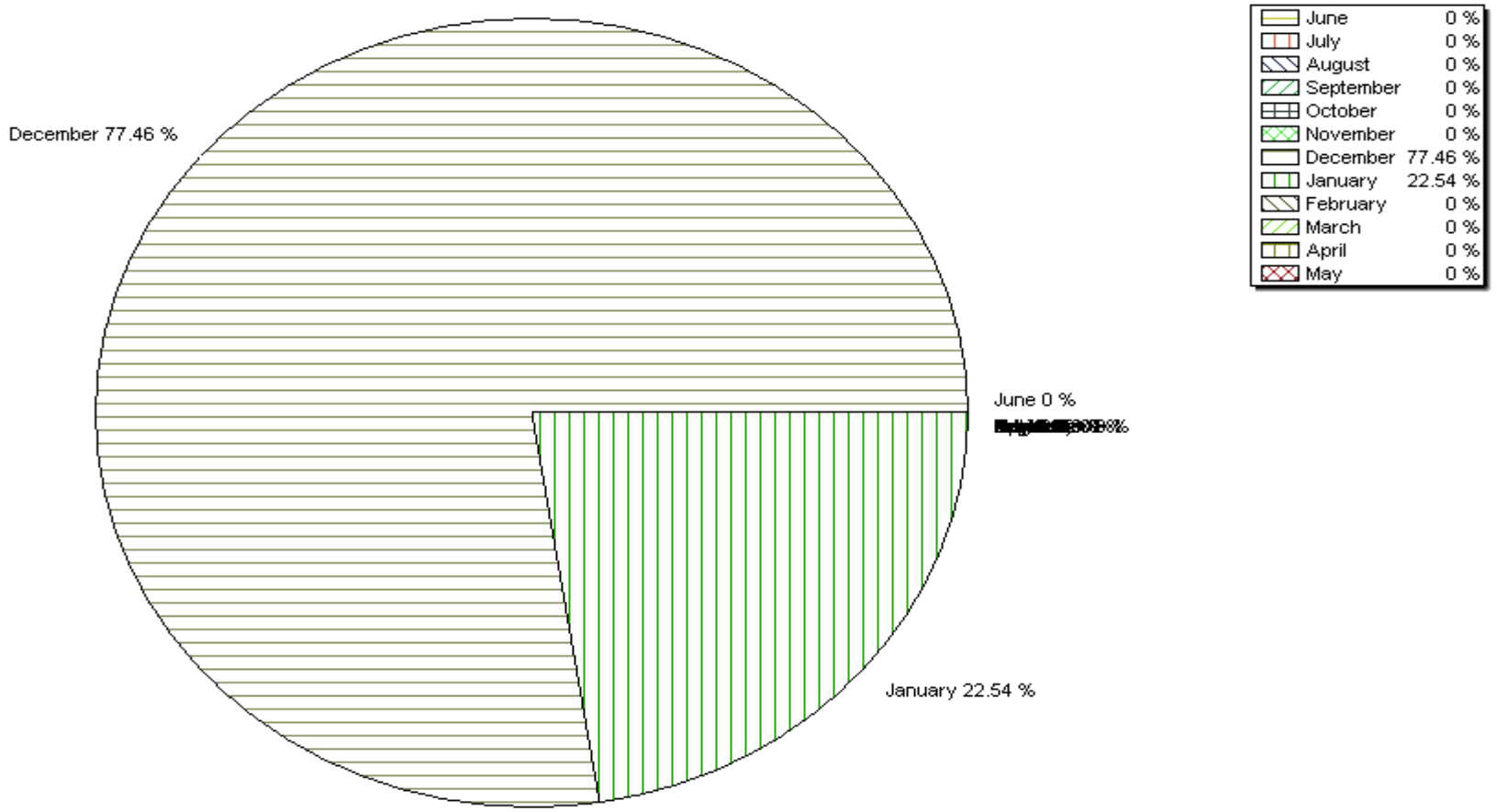
**Monthly Runoff for the Year : 2015-2016**

**Station Name : PARAMAKUDI ( CV000F3)**

**Local River : Vaigai**

**Division : SR Division, Coimbatore**

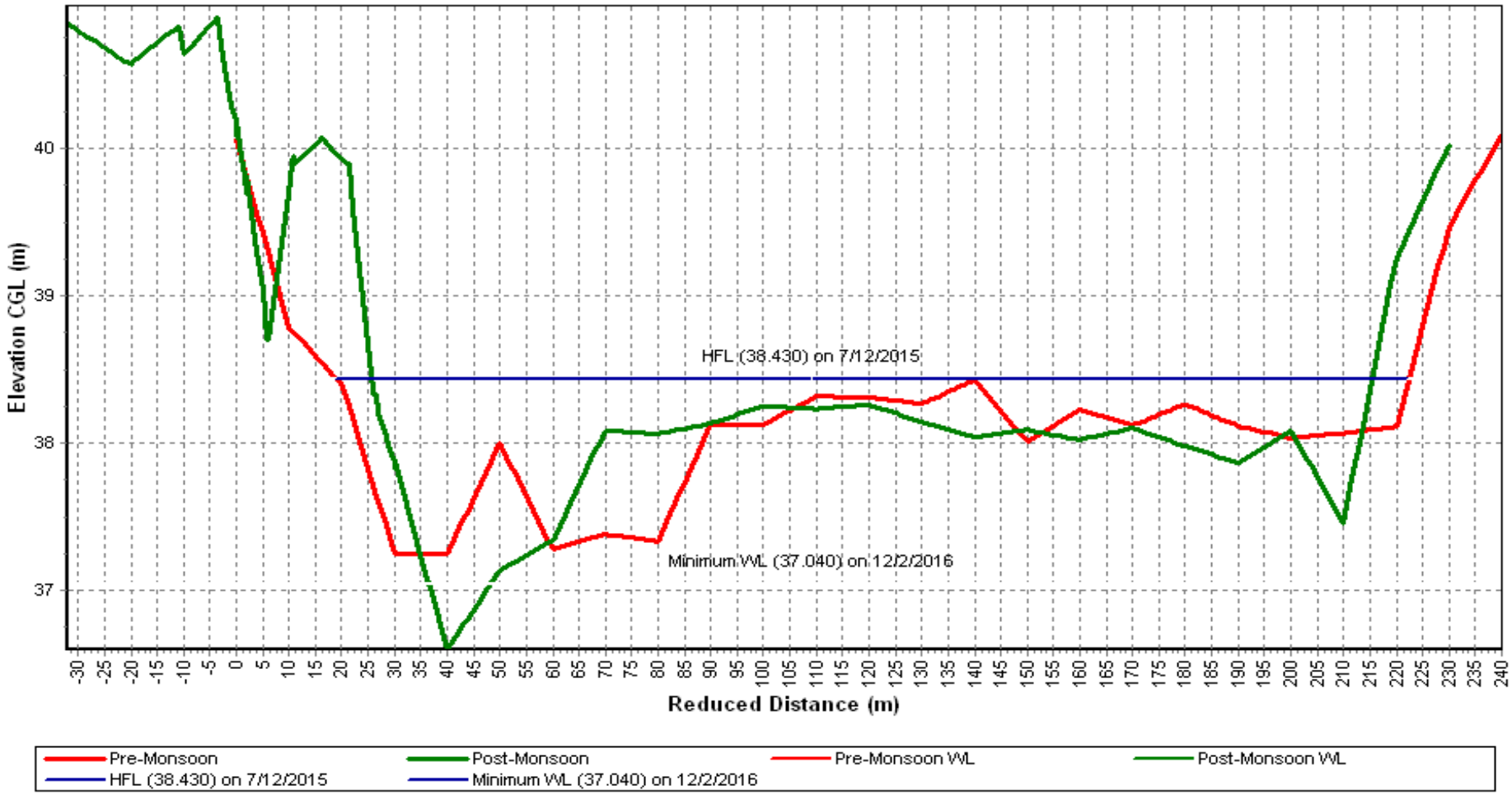
**Sub-Division : Vaigai SD Madurai**



**Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2015-2016**

**Station Name : PARAMAKUDI ( CV000F3)** **Division : SR Division, Coimbatore**

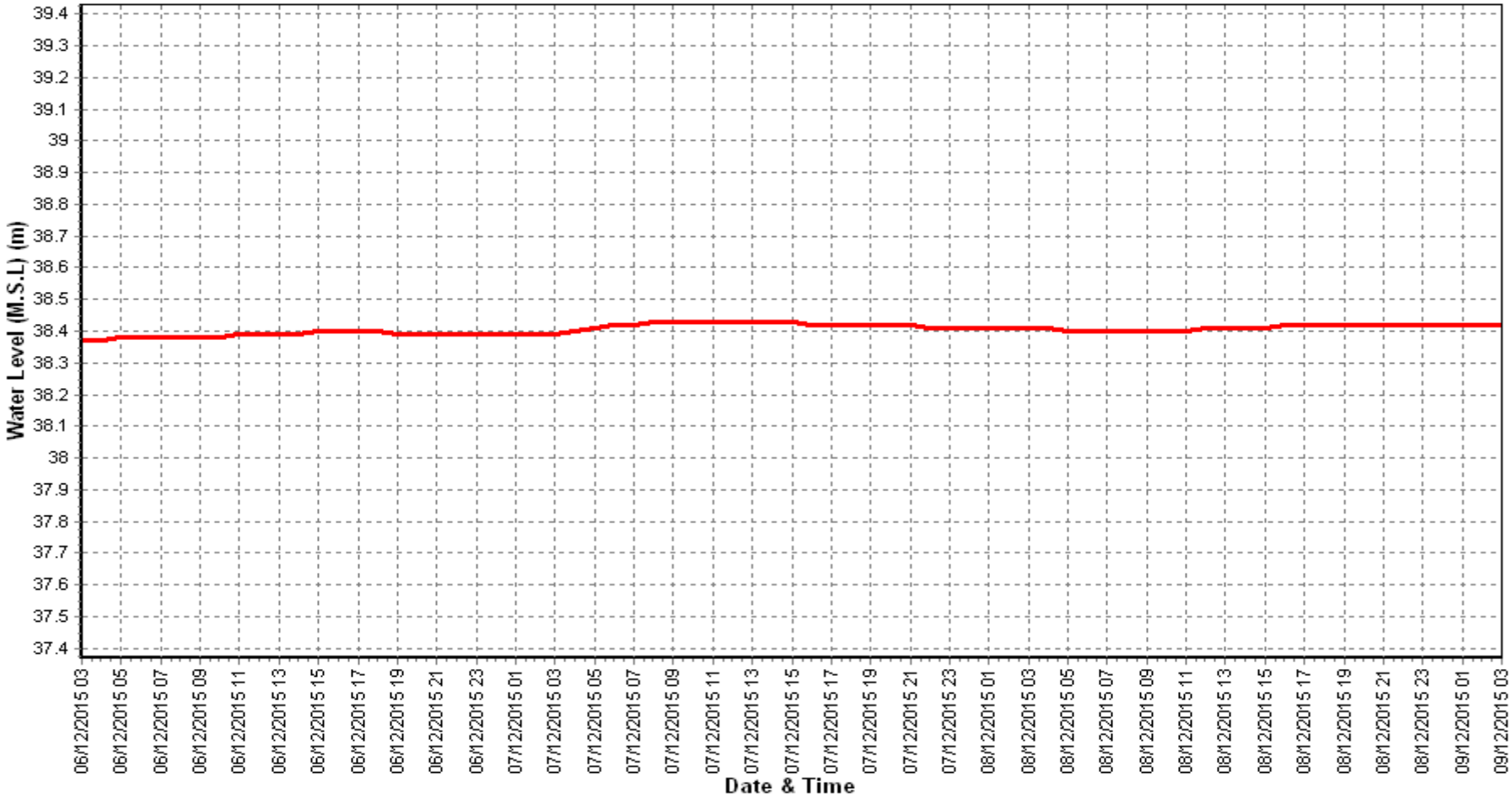
**Local River : Vaigai** **Sub-Division : Vaigai SD Madurai**



**Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2015-2016**

**Station Name : PARAMAKUDI ( CV000F3)** **Division : SR Division, Coimbatore**

**Local River : Vaigai** **Sub-Division : Vaigai SD Madurai**

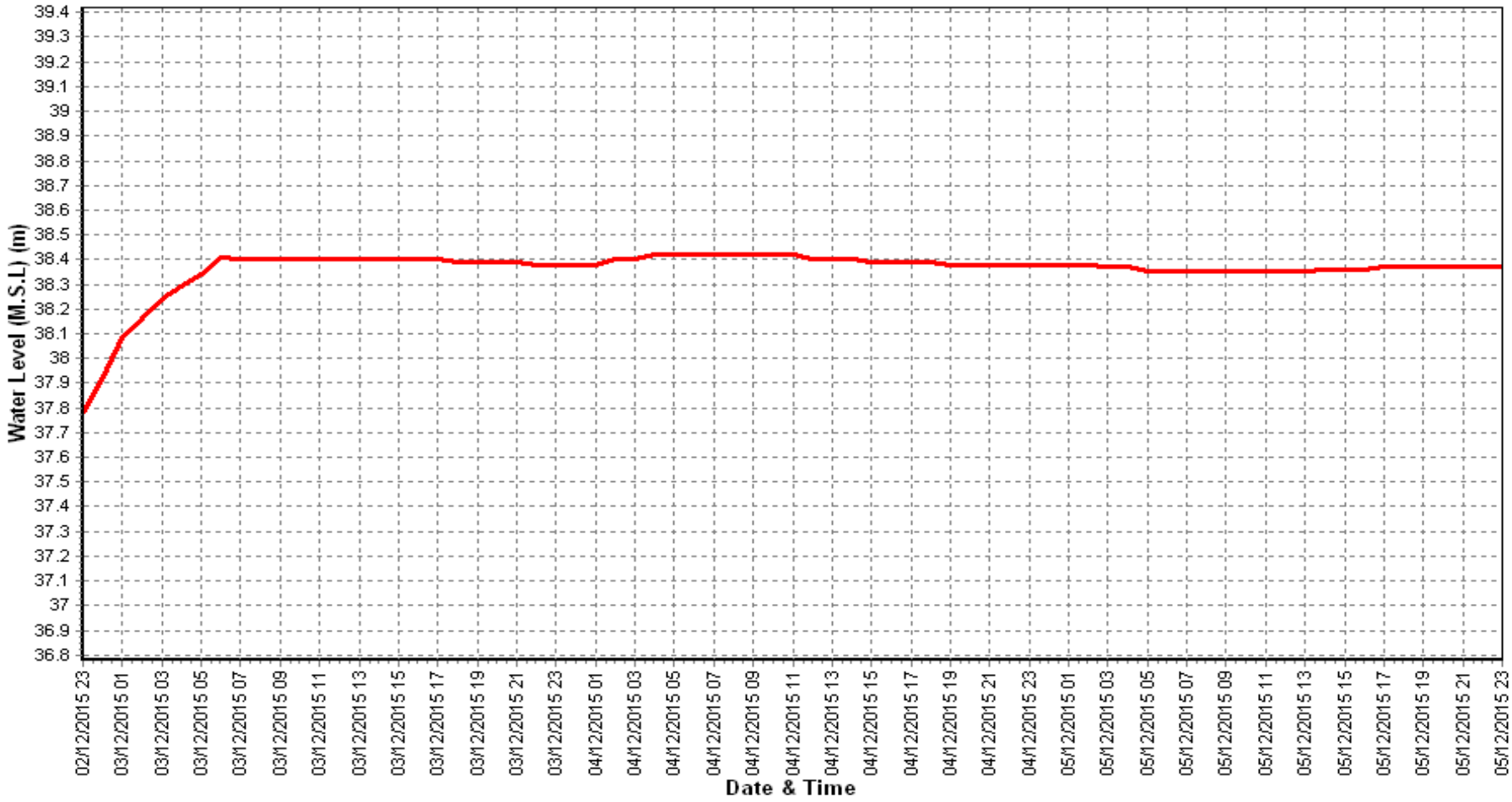



Time Span: 72 Hrs

**Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2015-2016**

**Station Name : PARAMAKUDI ( CV000F3)** **Division : SR Division, Coimbatore**

**Local River : Vaigai** **Sub-Division : Vaigai SD Madurai**

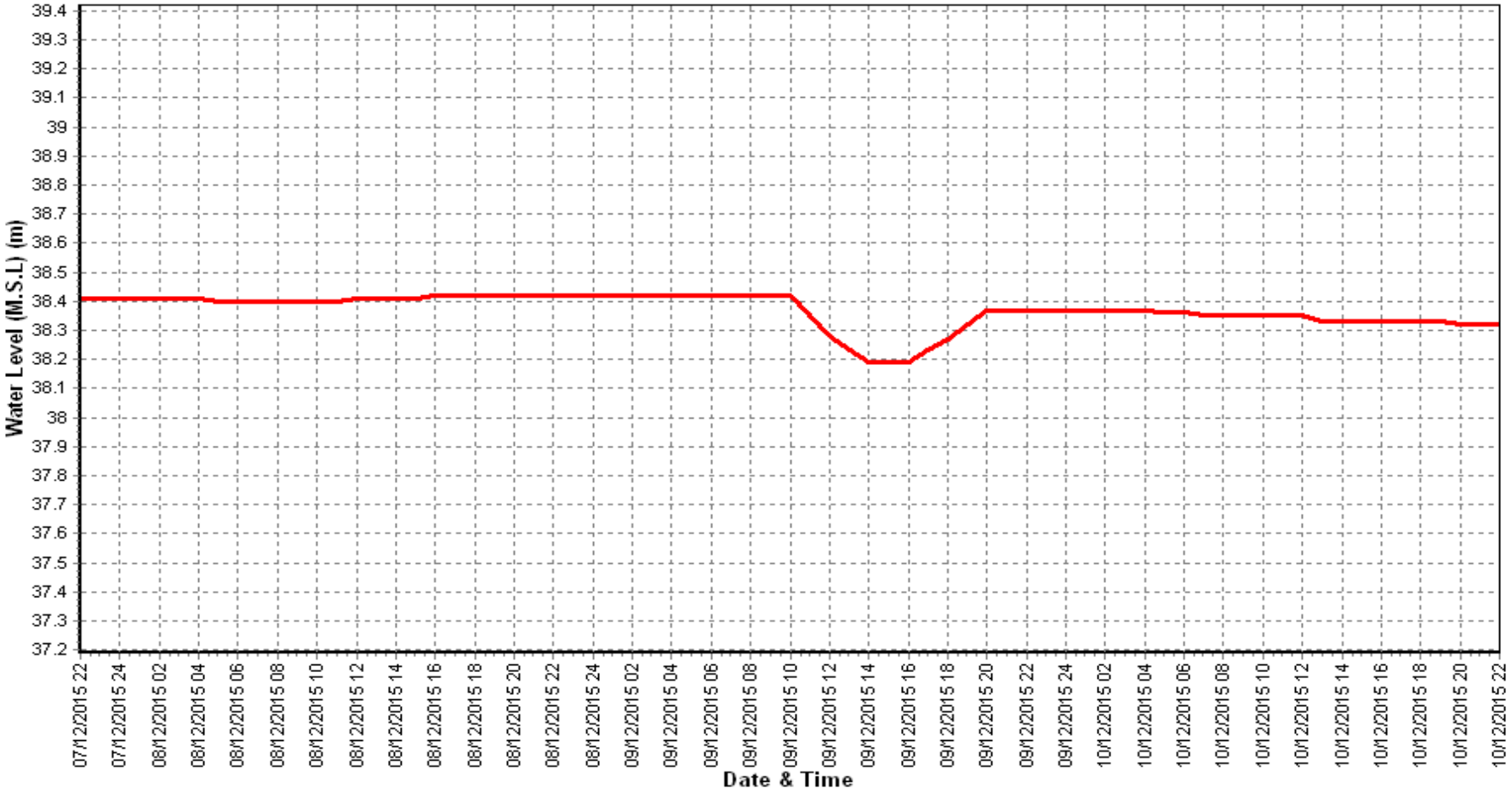



Time Span: 72 Hrs

**Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2015-2016**

**Station Name : PARAMAKUDI ( CV000F3)** **Division : SR Division, Coimbatore**

**Local River : Vaigai** **Sub-Division : Vaigai SD Madurai**




Time Span: 72 Hrs

## HISTORY SHEET

**Water Year : 2015-2016**

| | | | | | |
|---|---|---|---|---|---|
| **Site** | **: THENI** | | **Code** | **: CVA00D4** | |
| State | : Tamil Nadu | | District | Theni | |
| Basin | : EFR South of Cauvery | | Independent River | : Vaigai | |
| Tributary | : Suruliyar | | Sub Tributary | : | |
| Sub-Sub Tributary | : | | Local River | : Suruliyar | |
| Division | : SR Division, Coimbatore | | Sub-Division | : Vaigai SD Madurai | |
| Drainage Area | : 1200 Sq. Km. | | Bank | : Right | |
| Latitude | : 10°00'04" | | Longitude | : 77°29'06" | |
| **Zero of Gauge (m)** | : 281.650 (m.s.l)<br>278.000 (m.s.l) | | 01/06/1978<br>01/06/1982 | - 31/05/1982 | |
| | Opening Date | | Closing Date | | |
| Gauge | : 01/06/1978 | | | | |
| Discharge | : 01/06/1978 | | | | |
| Sediment | : 29/01/1979 | | | | |
| Water Quality | : 15/07/1978 | | | | |

**Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)**

| | Maximum | | | Minimum | | |
|---|---|---|---|---|---|---|
| **Year** | **Q (cumecs)** | **WL (m)** | **Date** | **Q (cumecs)** | **WL (m)** | **Date** |
| 1978-1979 | 310.5 | 286.275 | 25/11/1978 | 0.300 | 282.570 | 03/06/1978 |
| 1979-1980 | 503.0 | 287.950 | 19/11/1979 | 0.300 | 282.460 | 23/05/1980 |
| 1980-1981 | 148.3 | 284.450 | 21/11/1980 | 0.000 | 282.100 | 25/05/1981 |
| 1981-1982 | 166.6 | 284.420 | 25/10/1981 | 0.070 | 282.250 | 02/06/1981 |
| 1982-1983 | 74.80 | 280.200 | 11/11/1982 | 0.050 | 278.675 | 16/06/1982 |
| 1983-1984 | 466.0 | 282.425 | 07/03/1984 | 0.000 | 278.640 | 29/06/1983 |
| 1984-1985 | 102.8 | 280.460 | 16/11/1984 | 0.000 | 278.625 | 28/04/1985 |
| 1985-1986 | 150.6 | 281.170 | 27/10/1985 | 0.000 | 278.620 | 11/06/1985 |
| 1986-1987 | 75.90 | 280.245 | 31/10/1986 | 0.000 | 278.590 | 10/06/1986 |
| 1987-1988 | 155.5 | 281.125 | 30/10/1987 | 0.000 | Dry Bed | 04/07/1987 |
| 1988-1989 | 65.53 | 280.130 | 14/09/1988 | 0.000 | Dry Bed | 24/02/1989 |
| 1989-1990 | 203.3 | 281.500 | 08/01/1990 | 0.000 | 278.540 | 19/06/1989 |
| 1990-1991 | 256.1 | 281.620 | 30/10/1990 | 0.000 | 278.580 | 10/06/1990 |
| 1991-1992 | 64.75 | 280.094 | 19/08/1991 | 0.000 | 278.761 | 01/06/1991 |
| 1992-1993 | 660.0 | 283.537 | 14/11/1992 | 0.544 | 278.837 | 27/03/1993 |
| 1993-1994 | 271.7 | 281.719 | 09/11/1993 | 0.260 | 278.760 | 20/05/1994 |
| 1994-1995 | 200.4 | 281.342 | 04/11/1994 | 0.000 | 278.620 | 01/06/1994 |
| 1995-1996 | 100.5 | 280.455 | 11/08/1995 | 0.000 | 278.660 | 01/02/1996 |

Q : Observed / Computed Discharge
WL : Corresponding Water Level(m.s.l)

**Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)**

| | Maximum | | | Minimum | | |
|---|---|---|---|---|---|---|
| **Year** | **Q (cumecs)** | **WL (m)** | **Date** | **Q (cumecs)** | **WL (m)** | **Date** |
| 1996-1997 | 102.5 | 280.648 | 14/10/1996 | 0.000 | 278.630 | 03/06/1996 |
| 1997-1998 | 193.2 | 281.269 | 25/11/1997 | 0.000 | 278.730 | 08/06/1997 |
| 1998-1999 | 594.0 | 283.510 | 11/12/1998 | 0.000 | 278.610 | 01/06/1998 |
| 1999-2000 | 86.00 | 280.490 | 23/11/1999 | 0.000 | 278.760 | 01/06/1999 |
| 2000-2001 | 86.72 | 280.400 | 23/09/2000 | 0.000 | 278.840 | 01/06/2000 |
| 2001-2002 | 96.72 | 280.530 | 27/10/2001 | 0.000 | 278.630 | 01/06/2001 |
| 2002-2003 | 53.46 | 279.970 | 06/10/2002 | 0.000 | 278.630 | 01/06/2002 |
| 2003-2004 | 54.34 | 279.930 | 19/10/2003 | 0.000 | 278.570 | 01/06/2003 |
| 2004-2005 | 101.5 | 280.590 | 02/11/2004 | 0.000 | 278.570 | 01/06/2004 |
| 2005-2006 | 182.9 | 281.130 | 04/12/2005 | 0.000 | 278.790 | 02/06/2005 |
| 2006-2007 | 137.7 | 280.830 | 22/11/2006 | 0.000 | 278.720 | 01/06/2006 |
| 2007-2008 | 500.5 | 283.180 | 25/10/2007 | 0.000 | Dry Bed | 22/05/2008 |
| 2008-2009 | 123.7 | 280.940 | 21/10/2008 | 0.000 | Dry Bed | 01/06/2008 |
| 2009-2010 | 79.69 | 280.730 | 10/11/2009 | 0.000 | 278.670 | 05/06/2009 |
| 2010-2011 | 188.7 | 281.250 | 23/11/2010 | 0.000 | 278.650 | 22/06/2010 |
| 2011-2012 | 214.7 | 281.465 | 27/11/2011 | 0.000 | 278.640 | 01/06/2011 |
| 2012-2013 | 66.79 | 280.130 | 22/10/2012 | 0.000 | 278.780 | 02/06/2012 |
| 2013-2014 | 87.35 | 280.420 | 06/08/2013 | 0.000 | 278.580 | 01/06/2013 |
| 2014-2015 | 119.8 | 280.500 | 27/10/2014 | 0.000 | 278.900 | 01/06/2014 |

Q : Observed / Computed Discharge
WL : Corresponding Water Level(m.s.l)

## Stage-Discharge Data for the period 2015 - 2016

**Station Name : THENI ( CVA00D4)** **Division : SR Division, Coimbatore**

**Local River : Suruliyar** **Sub-Division : Vaigai SD Madurai**

| Day | Jun | | Jul | | Aug | | Sep | | Oct | | Nov | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | W.L | Q | W.L | Q | W.L | Q | W.L | Q | W.L | Q | W.L | Q |
| 1 | 279.020 | 4.052 | 279.710 | 30.79 | 279.640 | 25.96 | 279.260 | 10.40 | 280.100 | 59.57 | 279.660 | 29.43 * |
| 2 | 278.980 | 1.818 | 279.390 | 15.48 | 279.580 | 24.63 * | 279.290 | 12.26 | 279.610 | 26.38 * | 279.540 | 20.46 |
| 3 | 278.960 | 1.701 | 279.290 | 12.37 | 279.600 | 23.95 | 279.330 | 14.72 | 279.510 | 20.79 | 279.500 | 19.74 |
| 4 | 278.910 | 1.165 | 279.270 | 11.59 | 279.590 | 23.33 | 279.400 | 16.30 | 279.530 | 21.86 * | 279.420 | 16.04 |
| 5 | 278.870 | 1.006 # | 279.190 | 7.562 * | 279.580 | 24.73 | 279.630 | 25.50 | 279.425 | 15.49 | 279.930 | 41.36 |
| 6 | 278.930 | 1.328 | 279.280 | 11.84 | 279.600 | 25.63 | 279.630 | 27.58 * | 279.420 | 15.23 | 279.720 | 32.24 |
| 7 | 278.900 | 1.351 * | 279.250 | 11.07 | 279.550 | 22.80 | 279.610 | 20.87 | 279.410 | 16.09 | 279.560 | 21.08 |
| 8 | 278.900 | 1.163 | 279.400 | 15.62 | 279.560 | 23.56 | 279.400 | 15.79 | 279.340 | 14.06 | 279.540 | 22.41 * |
| 9 | 278.830 | 0.000 | 279.460 | 17.57 | 279.490 | 19.77 * | 279.390 | 16.31 | 279.250 | 11.04 | 279.630 | 28.16 |
| 10 | 278.770 | 0.000 | 279.640 | 25.88 | 279.470 | 18.96 | 279.360 | 14.41 | 279.300 | 12.87 | 279.410 | 15.92 * |
| 11 | 278.770 | 0.000 | 279.630 | 25.05 | 279.530 | 21.16 | 279.360 | 13.96 | 279.260 | 9.872 * | 279.400 | 15.68 |
| 12 | 278.840 | 0.000 | 279.600 | 25.79 * | 279.500 | 20.16 | 279.340 | 13.34 | 279.395 | 15.97 | 279.430 | 17.33 |
| 13 | 278.830 | 0.000 | 279.600 | 23.52 | 279.630 | 25.92 | 279.300 | 11.34 * | 279.400 | 16.17 | 279.470 | 18.51 |
| 14 | 278.780 | 0.000 | 279.630 | 25.30 | 279.400 | 15.84 | 279.270 | 12.44 | 279.390 | 14.93 | 279.580 | 22.17 |
| 15 | 278.740 | 0.000 | 279.540 | 21.46 | 279.370 | 14.16 * | 279.260 | 12.24 | 279.390 | 14.73 | 279.470 | 18.77 * |
| 16 | 278.750 | 0.000 | 279.660 | 28.53 | 279.330 | 12.51 * | 279.280 | 12.22 | 279.400 | 16.11 | 279.460 | 18.09 |
| 17 | 278.920 | 1.301 | 279.680 | 29.81 | 279.500 | 21.78 | 279.280 | 10.59 * | 279.390 | 15.34 | 279.750 | 33.68 |
| 18 | 278.930 | 1.369 | 279.720 | 33.32 * | 279.710 | 33.05 | 279.320 | 14.43 | 279.390 | 15.03 * | 279.870 | 40.92 |
| 19 | 278.920 | 1.291 | 279.710 | 32.65 * | 279.600 | 24.76 | 279.380 | 16.04 | 279.375 | 15.68 | 280.850 | 162.1 |
| 20 | 278.950 | 1.677 | 279.730 | 31.58 | 279.570 | 23.02 | 279.320 | 12.11 * | 279.420 | 16.28 | 280.390 | 102.7 |
| 21 | 278.900 | 1.351 * | 279.720 | 31.04 | 279.400 | 15.75 | 279.340 | 15.32 | 279.390 | 15.03 * | 280.260 | 72.10 |
| 22 | 278.930 | 1.471 | 279.830 | 36.72 | 279.360 | 15.05 | 279.270 | 11.66 | 279.440 | 17.32 * | 280.000 | 54.87 * |
| 23 | 279.150 | 6.526 | 279.800 | 34.08 | 279.370 | 14.16 * | 279.280 | 12.51 | 279.350 | 13.95 | 280.110 | 62.47 |
| 24 | 279.040 | 4.215 | 279.730 | 31.52 | 279.370 | 15.69 | 279.380 | 14.59 * | 279.380 | 14.59 * | 280.120 | 62.50 |
| 25 | 279.050 | 4.448 | 279.750 | 33.27 | 279.350 | 14.77 | 280.150 | 72.42 | 279.400 | 15.47 * | 280.000 | 54.87 * |
| 26 | 279.210 | 9.248 | 279.730 | 33.99 * | 279.270 | 12.24 | 279.800 | 36.79 | 279.290 | 10.94 | 279.790 | 37.77 |
| 27 | 279.400 | 16.00 | 279.700 | 29.80 | 279.280 | 12.47 | 279.680 | 30.70 * | 279.350 | 15.29 | 279.610 | 25.31 |
| 28 | 279.710 | 32.65 * | 279.720 | 30.67 | 279.300 | 13.12 | 279.640 | 28.74 | 279.360 | 15.57 | 279.650 | 28.55 |
| 29 | 279.740 | 31.79 | 279.740 | 31.80 | 279.290 | 12.70 | 279.670 | 29.54 | 279.550 | 19.98 | 279.580 | 24.63 * |
| 30 | 279.760 | 32.98 | 279.730 | 31.90 | 279.250 | 9.522 * | 280.090 | 59.06 | 279.370 | 14.68 | 280.000 | 49.08 |
| 31 | | | 279.660 | 27.57 | 279.250 | 10.15 | | | 279.320 | 13.44 | | |
| **Ten-Daily Mean** | | | | | | | | | | | | |
| I Ten-Daily | 278.907 | 1.358 | 279.388 | 15.98 | 279.566 | 23.33 | 279.430 | 17.41 | 279.490 | 21.34 | 279.591 | 24.68 |
| II Ten-Daily | 278.843 | 0.564 | 279.650 | 27.70 | 279.514 | 21.24 | 279.311 | 12.87 | 279.381 | 15.01 | 279.767 | 44.99 |
| III Ten-Daily | 279.289 | 14.07 | 279.737 | 32.03 | 279.317 | 13.24 | 279.630 | 31.13 | 279.382 | 15.11 | 279.912 | 47.21 |
| **Monthly** | | | | | | | | | | | | |
| Min. | 278.740 | 0.000 | 279.190 | 7.562 | 279.250 | 9.522 | 279.260 | 10.40 | 279.250 | 9.872 | 279.400 | 15.68 |
| Max. | 279.760 | 32.98 | 279.830 | 36.73 | 279.710 | 33.05 | 280.150 | 72.42 | 280.100 | 59.57 | 280.850 | 162.1 |
| Mean | 279.013 | 5.33 | 279.596 | 25.46 | 279.461 | 19.07 | 279.457 | 20.47 | 279.416 | 17.09 | 279.757 | 38.96 |

**Annual Runoff in MCM = 686 Annual Runoff in mm = 571**

**Peak Observed Discharge = 162.1 cumecs on 19/11/2015 Corres. Water Level :280.85 m**

**Lowest Observed Discharge = 0.000 cumecs on 09/06/2015 Corres. Water Level :278.83 m**

Q: Observed/Computed Discharge in cumecs

WL:Corresponding Mean Water Level(m.s.l) in m

*:Computed Discharge

#:Discarded Discharge (values changed as per rating curve)

*Note:Missing values ignored while arriving at Annual Runoff*

## Stage-Discharge Data for the period 2015 - 2016

**Station Name : THENI ( CVA00D4)** **Division : SR Division, Coimbatore**

**Local River : Suruliyar** **Sub-Division : Vaigai SD Madurai**

| Day | Dec | | Jan | | Feb | | Mar | | Apr | | May | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | W.L | Q | WL | Q | WL | Q | WL | Q | WL | Q | WL | Q |
| 1 | 279.870 | 40.61 | 279.870 | 39.58 | 279.550 | 21.16 | 279.390 | 15.15 | 279.140 | 6.017 | 278.840 | 0.000 |
| 2 | 279.840 | 37.58 | 279.820 | 36.19 | 279.580 | 22.09 | 279.290 | 11.92 | 279.060 | 4.481 | 278.830 | 0.000 |
| 3 | 280.150 | 69.69 | 279.760 | 34.32 * | 279.550 | 21.35 | 279.270 | 11.32 | 279.060 | 4.450 * | 278.850 | 0.000 |
| 4 | 280.050 | 59.47 | 279.830 | 36.28 | 279.490 | 18.80 | 279.170 | 6.629 | 278.980 | 3.474 | 278.850 | 0.000 |
| 5 | 279.880 | 41.25 | 279.870 | 40.20 | 279.480 | 18.53 | 279.400 | 15.72 | 279.040 | 4.207 | 279.060 | 4.244 |
| 6 | 279.940 | 47.29 * | 279.830 | 36.14 | 279.620 | 25.67 | 279.240 | 9.199 * | 279.030 | 4.039 | 279.050 | 4.148 |
| 7 | 280.190 | 69.35 | 279.760 | 35.43 | 279.540 | 21.52 * | 279.300 | 12.20 | 278.950 | 2.449 # | 278.850 | 0.000 |
| 8 | 280.660 | 120.0 | 279.820 | 36.81 | 279.490 | 18.85 | 279.100 | 4.810 | 278.960 | 1.913 | 279.090 | 5.111 * |
| 9 | 280.510 | 105.9 | 279.750 | 34.47 | 279.540 | 20.94 | 279.460 | 17.67 | 279.100 | 4.683 | 279.080 | 4.833 |
| 10 | 280.420 | 96.22 | 279.760 | 34.32 * | 279.500 | 19.69 | 279.370 | 14.57 | 278.940 | 2.299 * | 279.100 | 4.837 |
| 11 | 280.300 | 78.88 | 279.720 | 29.07 | 279.550 | 21.25 | 279.330 | 13.62 | 278.850 | 0.000 | 279.090 | 4.920 |
| 12 | 280.270 | 73.15 | 279.730 | 31.59 | 279.670 | 28.87 | 279.260 | 10.94 | 279.040 | 4.141 | 279.160 | 6.219 |
| 13 | 280.440 | 95.77 * | 279.720 | 30.08 | 279.540 | 20.88 | 279.300 | 11.21 * | 278.840 | 0.000 | 279.110 | 5.532 |
| 14 | 280.390 | 91.64 | 279.700 | 29.60 | 279.480 | 18.60 * | 279.280 | 11.70 | 278.830 | 0.000 | 279.090 | 4.831 |
| 15 | 280.320 | 83.25 | 279.670 | 28.69 * | 279.470 | 18.21 | 279.340 | 13.89 | 278.840 | 0.000 | 279.110 | 5.580 * |
| 16 | 280.340 | 86.58 | 279.650 | 27.75 | 279.460 | 17.78 | 279.230 | 9.215 | 278.830 | 0.000 | 279.080 | 4.885 * |
| 17 | 280.250 | 72.98 | 279.710 | 31.12 * | 279.440 | 17.14 | 279.210 | 8.075 | 278.850 | 0.000 | 279.090 | 4.861 |
| 18 | 280.160 | 69.50 | 279.660 | 28.49 | 279.430 | 16.78 | 279.190 | 7.677 | 278.840 | 0.000 | 279.080 | 4.690 |
| 19 | 280.140 | 64.96 | 279.670 | 28.64 | 279.400 | 15.81 | 279.220 | 8.853 | 278.840 | 0.000 | 279.080 | 4.702 |
| 20 | 280.290 | 79.25 * | 279.700 | 30.26 | 279.540 | 20.85 | 279.200 | 7.980 * | 278.850 | 0.000 | 278.940 | 1.858 |
| 21 | 280.200 | 69.93 | 279.730 | 32.32 | 279.500 | 19.55 * | 279.180 | 6.840 | 279.090 | 4.758 | 278.850 | 0.000 |
| 22 | 280.200 | 70.80 | 279.780 | 36.23 | 279.420 | 16.36 | 279.270 | 11.43 | 279.050 | 4.184 | 278.810 | 0.000 |
| 23 | 280.150 | 65.04 | 279.730 | 32.21 | 279.480 | 18.49 | 279.120 | 5.615 | 278.850 | 0.000 | 278.750 | 0.000 |
| 24 | 280.080 | 59.98 * | 279.680 | 29.28 * | 279.450 | 17.41 | 279.450 | 17.23 | 278.850 | 0.000 | 279.040 | 4.151 |
| 25 | 280.020 | 53.79 * | 279.640 | 27.15 | 279.500 | 19.62 | 279.050 | 4.240 * | 278.840 | 0.000 | 279.010 | 3.772 |
| 26 | 279.900 | 42.81 | 279.690 | 29.89 * | 279.420 | 16.30 | 279.350 | 14.18 | 278.850 | 0.000 | 279.000 | 3.602 |
| 27 | 279.990 | 51.30 * | 279.650 | 27.85 | 279.290 | 12.62 | 278.980 | 2.930 * | 278.840 | 0.000 | 278.990 | 3.583 |
| 28 | 280.020 | 52.73 | 279.690 | 29.87 | 279.250 | 9.519 * | 278.890 | 0.983 | 278.830 | 0.000 | 279.040 | 4.162 |
| 29 | 280.040 | 55.31 | 279.660 | 28.45 | 279.210 | 8.306 | 279.270 | 11.41 | 278.840 | 0.000 | 279.020 | 3.646 * |
| 30 | 279.940 | 48.50 | 279.620 | 25.73 | | | 279.150 | 6.283 | 278.850 | 0.000 | 278.980 | 3.375 |
| 31 | 279.935 | 47.77 | 279.570 | 23.08 * | | | 279.070 | 4.701 | | | 278.850 | 0.000 |
| **Ten-Daily Mean** | | | | | | | | | | | | |
| I Ten-Daily | 280.151 | 68.73 | 279.807 | 36.37 | 279.534 | 20.86 | 279.299 | 11.92 | 279.026 | 3.801 | 278.960 | 2.317 |
| II Ten-Daily | 280.290 | 79.60 | 279.693 | 29.53 | 279.498 | 19.62 | 279.256 | 10.32 | 278.861 | 0.414 | 279.083 | 4.808 |
| III Ten-Daily | 280.043 | 56.18 | 279.676 | 29.28 | 279.391 | 15.35 | 279.162 | 7.803 | 278.889 | 0.894 | 278.940 | 2.390 |
| **Monthly** | | | | | | | | | | | | |
| Min. | 279.840 | 37.58 | 279.570 | 23.08 | 279.210 | 8.306 | 278.890 | 0.983 | 278.830 | 0.000 | 278.750 | 0.000 |
| Max. | 280.660 | 120.0 | 279.870 | 40.20 | 279.670 | 28.87 | 279.460 | 17.67 | 279.140 | 6.017 | 279.160 | 6.219 |
| Mean | 280.158 | 67.78 | 279.724 | 31.65 | 279.477 | 18.72 | 279.236 | 9.941 | 278.925 | 1.703 | 278.993 | 3.147 |

**Peak Computed Discharge = 95.77 cumecs on 13/12/2015 Corres. Water Level :280.44 m**

**Lowest Computed Discharge = 1.351 cumecs on 07/06/2015 Corres. Water Level :278.9 m**

Q: Observed/Computed Discharge in cumecs

WL:Corresponding Mean Water Level(m.s.l) in m

*:Computed Discharge

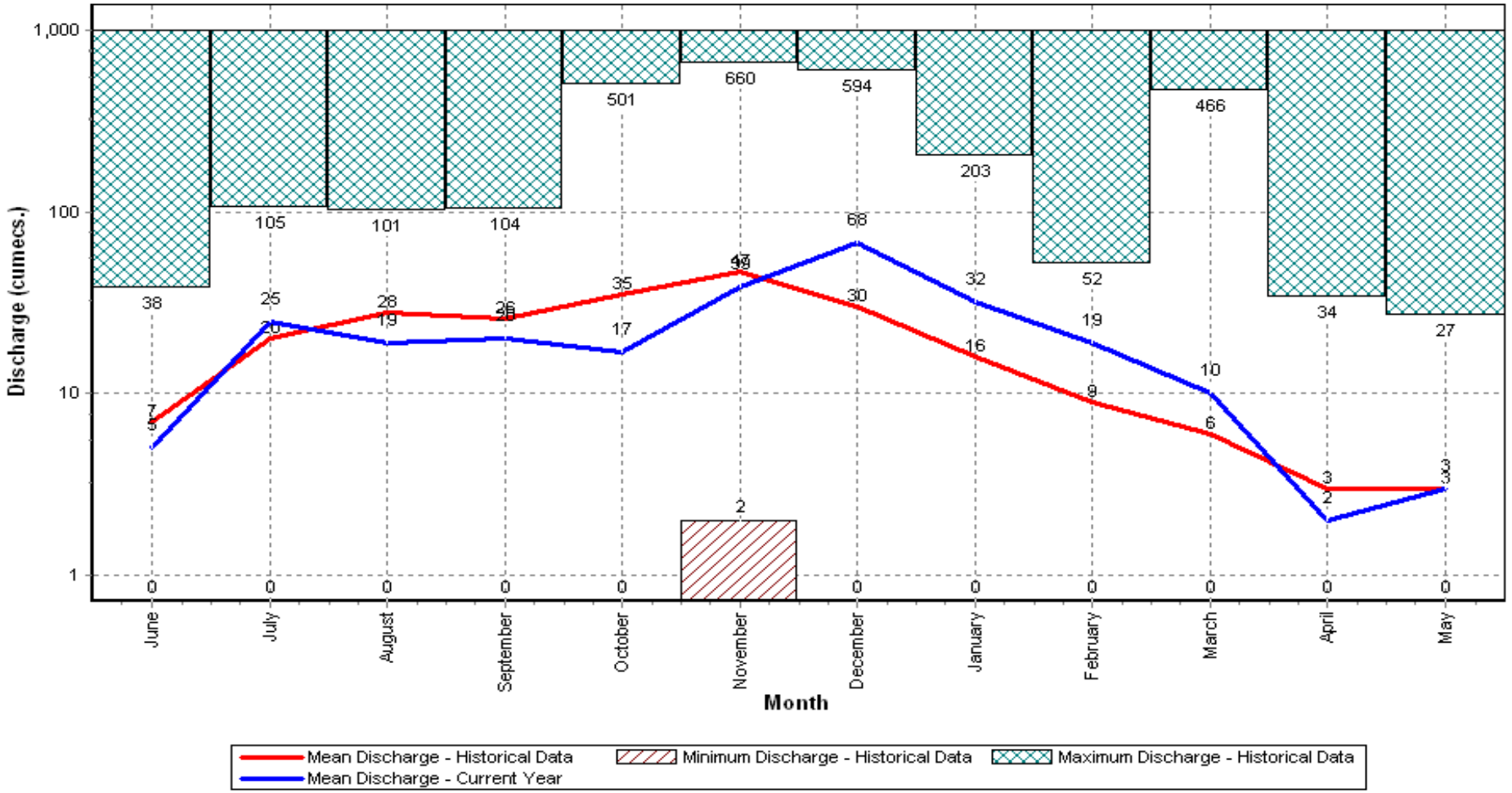
#:Discarded Discharge (values changed as per rating curve)

*Note:Missing values ignored while arriving at Annual Runoff*

**HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016**

**Station Name : THENI ( CVA00D4)** | **Data considered : 1978-2016** | **Division : SR Division, Coimbatore**

**Local River : Suruliyar** | **Sub-Division : Vaigai SD Madurai**



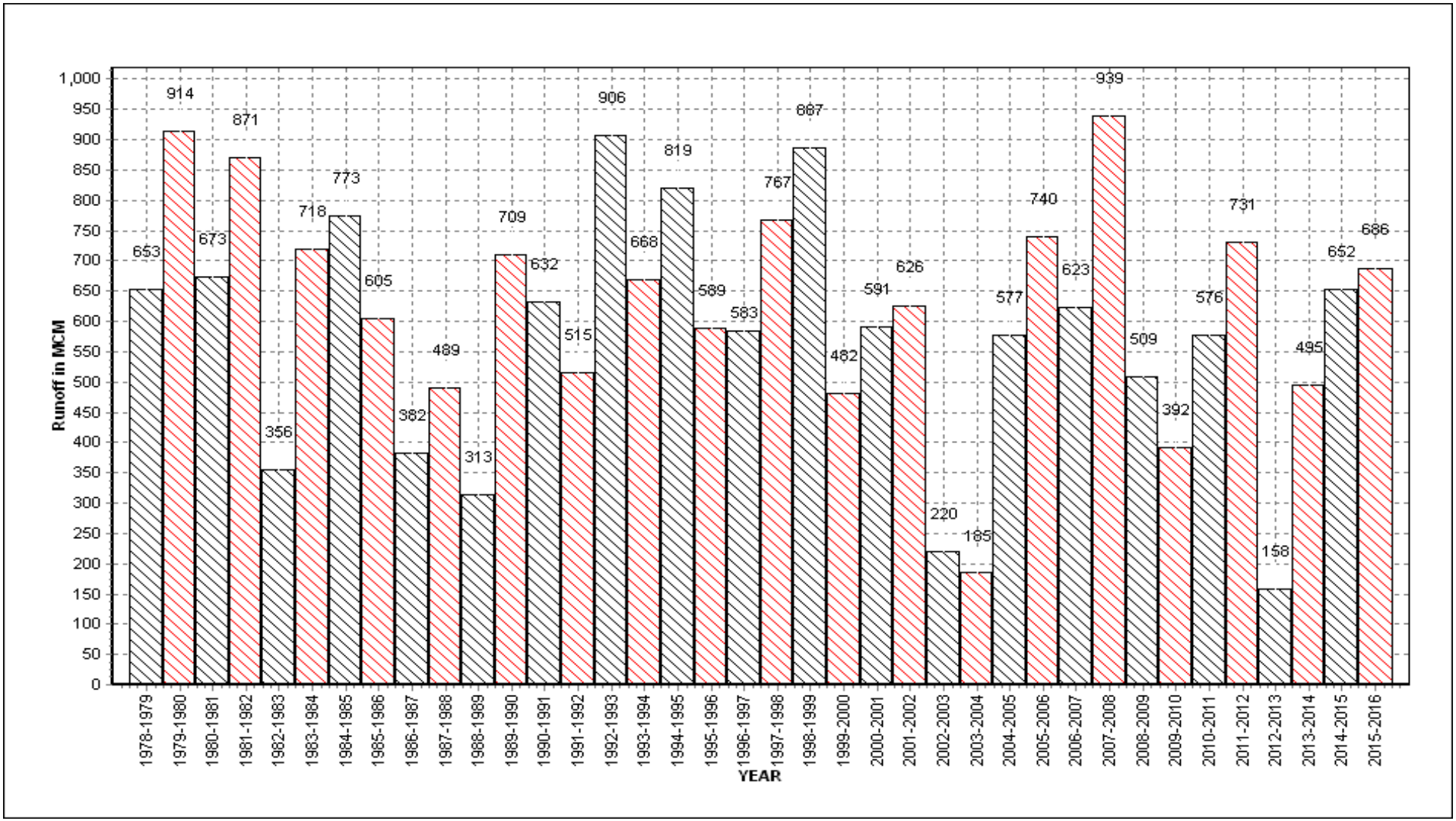
**Annual Runoff Values for the period: 1978 - 2016**

**Station Name : THENI ( CVA00D4)**

**Division : SR Division, Coimbatore**

**Local River : Suruliyar**

**Sub-Division : Vaigai SD Madurai**

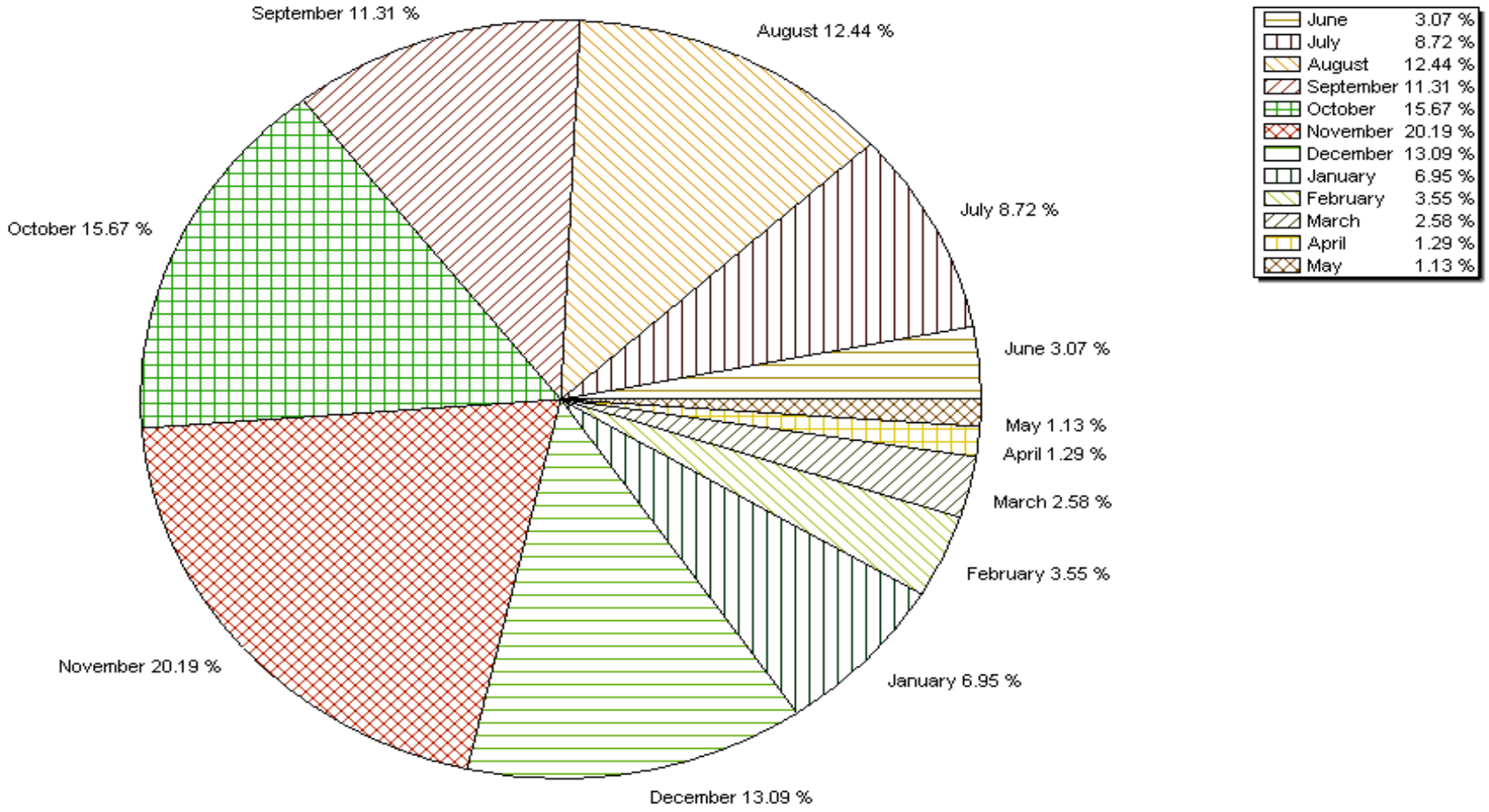



*Note: Missing values have not been considered while arriving at Annual Runoff*

**Monthly Average Runoff based on period : 1978-2015**

**Station Name : THENI ( CVA00D4)**
**Local River : Suruliyar**

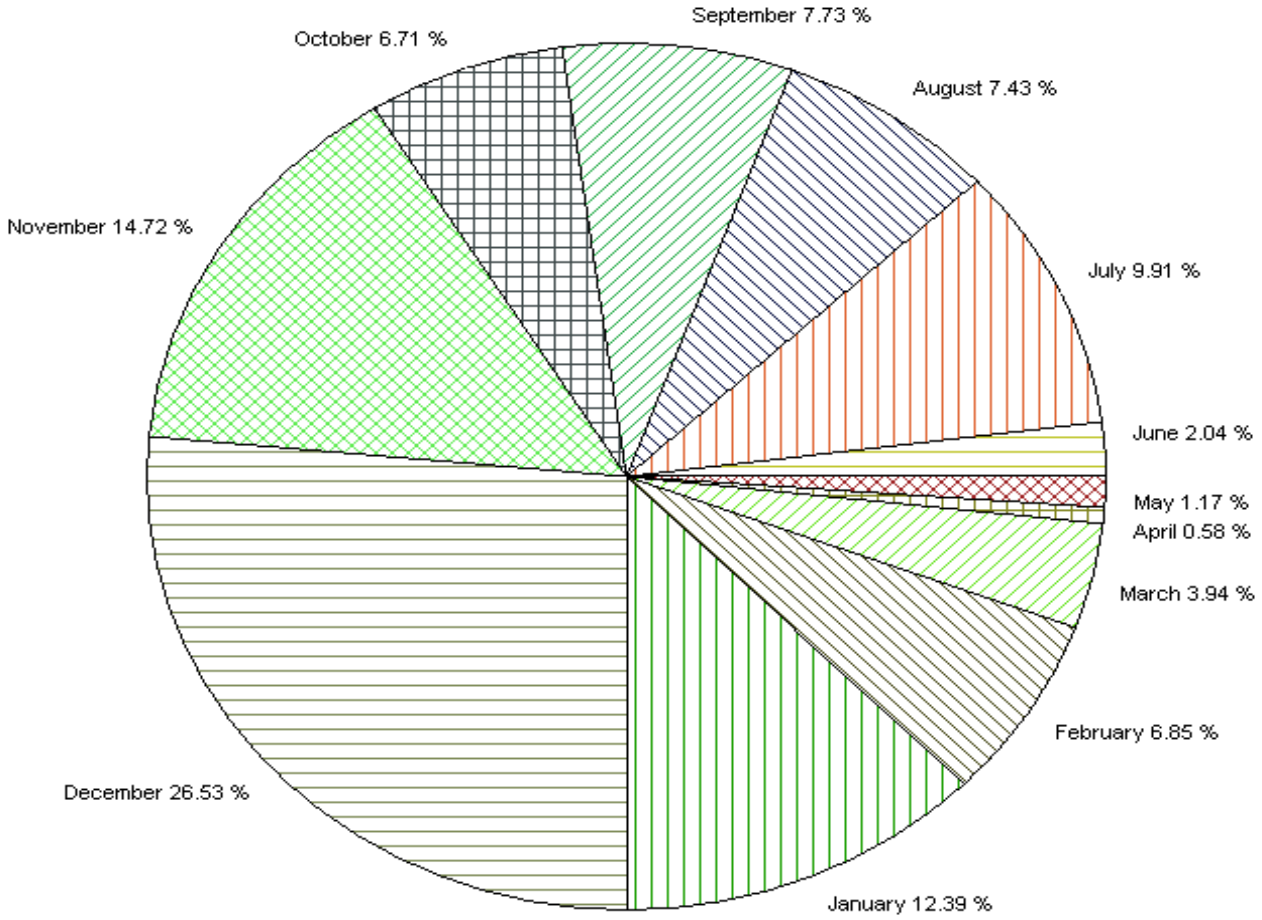
**Division : SR Division, Coimbatore**
**Sub-Division : Vaigai SD Madurai**



**Monthly Runoff for the Year : 2015-2016**

**Station Name : THENI ( CVA00D4)**
**Local River : Suruliyar**

**Division : SR Division, Coimbatore**
**Sub-Division : Vaigai SD Madurai**

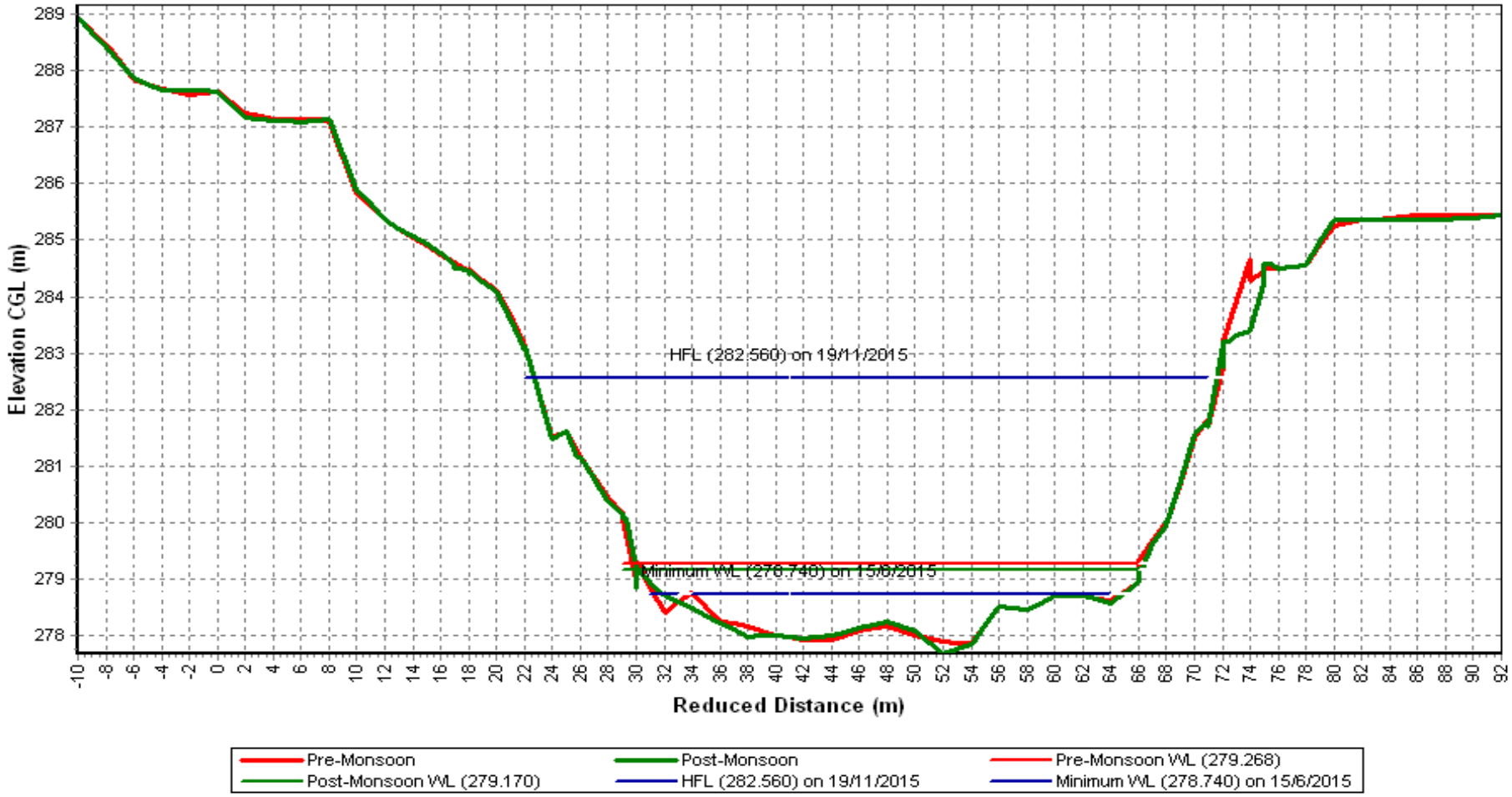



| | |
|---|---|
| June | 2.04 % |
| July | 9.91 % |
| August | 7.43 % |
| September | 7.73 % |
| October | 6.71 % |
| November | 14.72 % |
| December | 26.53 % |
| January | 12.39 % |
| February | 6.85 % |
| March | 3.94 % |
| April | 0.58 % |
| May | 1.17 % |

**Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2015-2016**

**Station Name : THENI ( CVA00D4)** **Division : SR Division, Coimbatore**

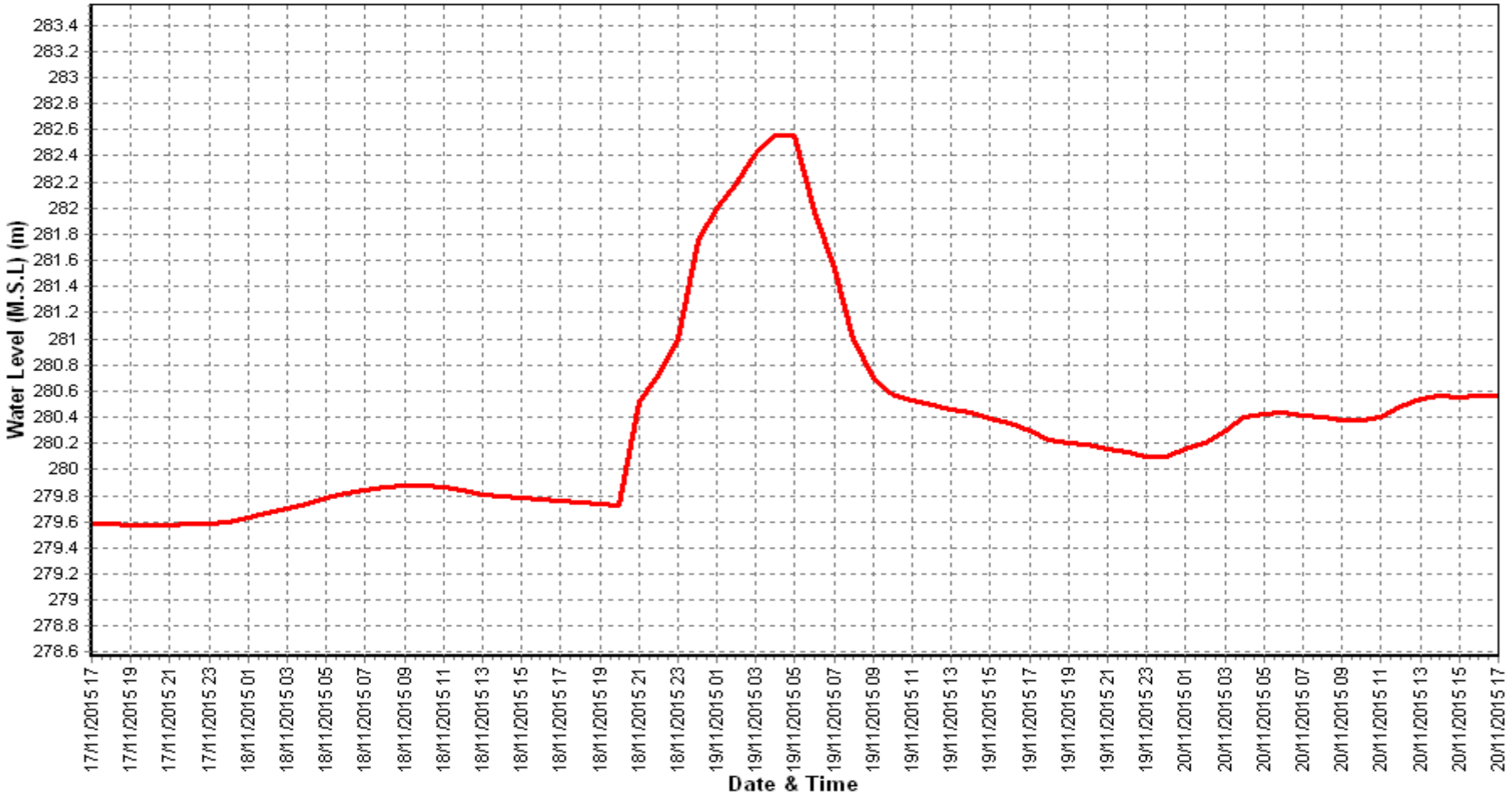
**Local River : Suruliyar** **Sub-Division : Vaigai SD Madurai**



**Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2015-2016**

**Station Name : THENI ( CVA00D4)** **Division : SR Division, Coimbatore**

**Local River : Suruliyar** **Sub-Division : Vaigai SD Madurai**

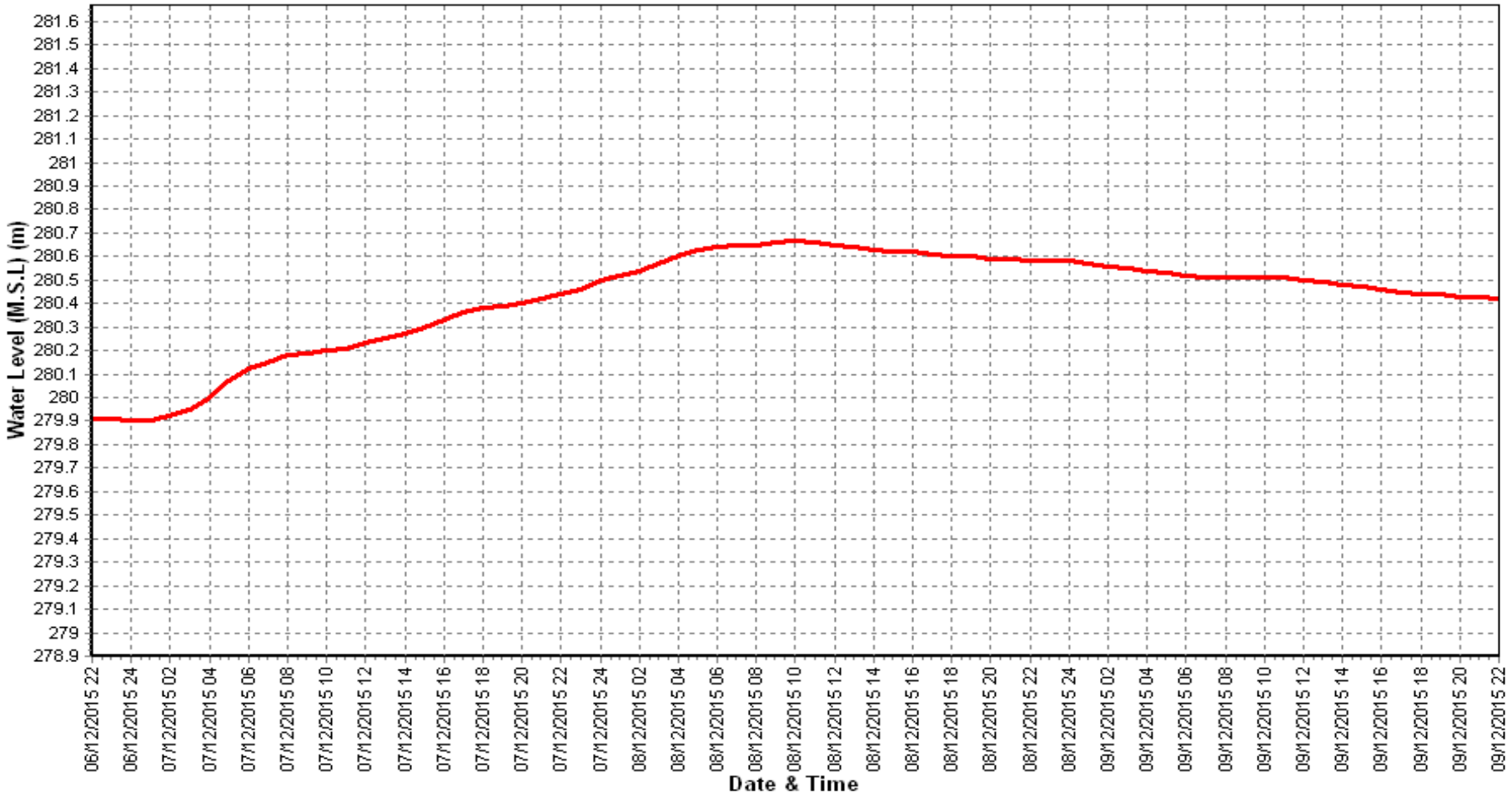



Time Span: 72 Hrs

**Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2015-2016**

**Station Name : THENI ( CVA00D4)** **Division : SR Division, Coimbatore**

**Local River : Suruliyar** **Sub-Division : Vaigai SD Madurai**




Time Span: 72 Hrs

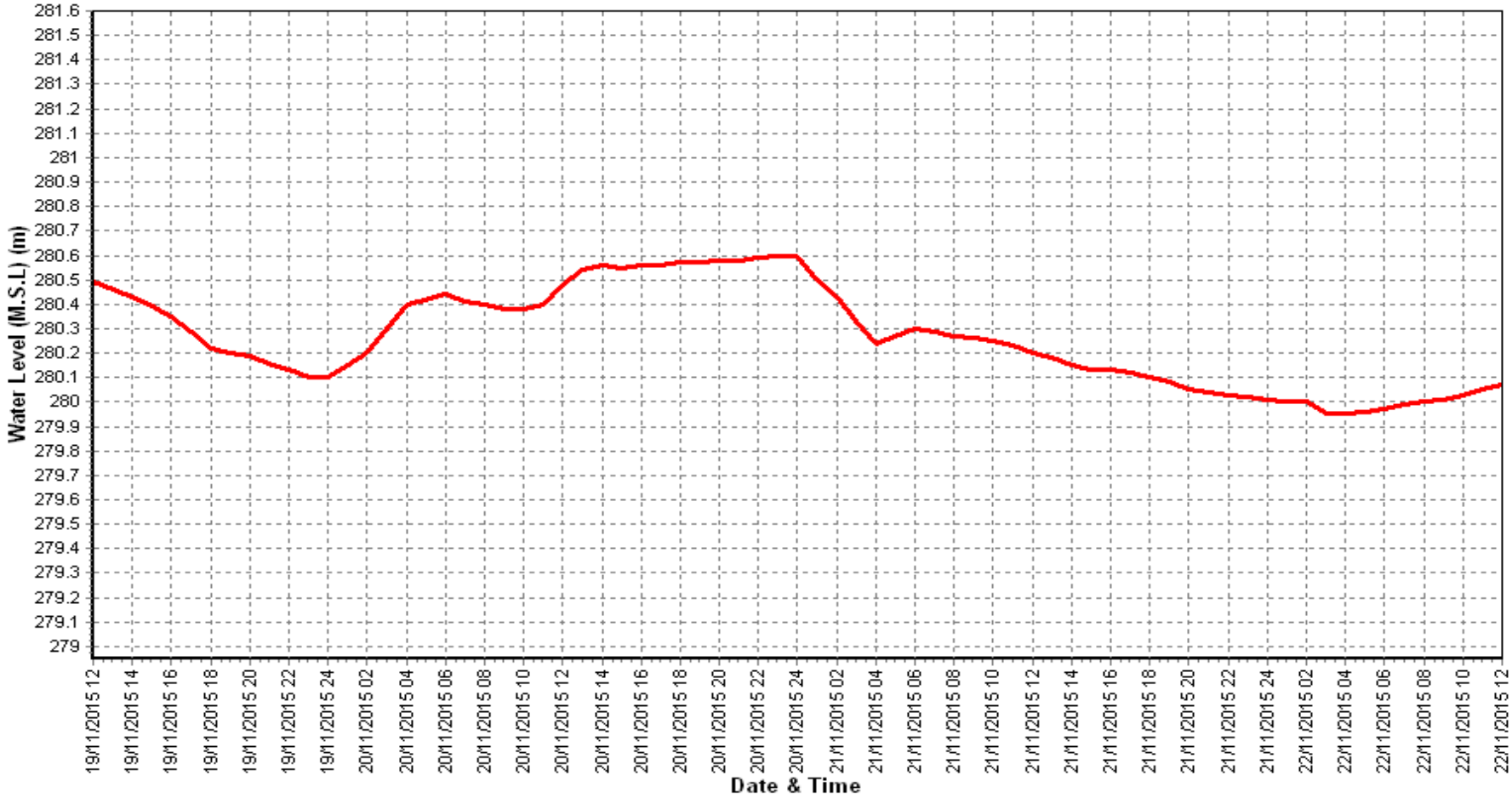
**Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2015-2016**

**Station Name : THENI ( CVA00D4)**

**Local River : Suruliyar**

**Division : SR Division, Coimbatore**

**Sub-Division : Vaigai SD Madurai**




Time Span: 72 Hrs

## HISTORY SHEET

**Water Year : 2015-2016**

| | | | | | |
|---|---|---|---|---|---|
| **Site** | **: AMBASAMUDRAM** | | **Code** | **: CV000U2** | |
| State | : Tamil Nadu | | District | Theni | |
| Basin | : EFR South of Cauvery | | Independent River | : Vaigai | |
| Tributary | : - | | Sub Tributary | : - | |
| Sub-Sub Tributary | : - | | Local River | : Vaigai | |
| Division | : SR Division, Coimbatore | | Sub-Division | : Vaigai SD Madurai | |
| Drainage Area | : 850 Sq. Km. | | Bank | : Left | |
| Latitude | : 09°55'32" | | Longitude | : 77°30'42" | |
| **Zero of Gauge (m)** | : 296.500 (m.s.l) | | 01/08/1998 | | |
| | Opening Date | | Closing Date | | |
| Gauge | : 01/08/1998 | | | | |
| Discharge | : 05/01/1999 | | | | |
| Sediment | : 09/10/2002 | | | | |
| Water Quality | : 01/08/1999 | | | | |

**Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)**

| | Maximum | | | Minimum | | |
|---|---|---|---|---|---|---|
| **Year** | **Q (cumecs)** | **WL (m)** | **Date** | **Q (cumecs)** | **WL (m)** | **Date** |
| 1999-2000 | 44.61 | 298.250 | 24/11/1999 | 0.000 | Dry Bed | 01/06/1999 |
| 2000-2001 | 38.89 | 298.150 | 02/01/2001 | 0.000 | Dry Bed | 01/06/2000 |
| 2001-2002 | 35.60 | 298.220 | 15/11/2001 | 0.000 | Dry Bed | 01/06/2001 |
| 2002-2003 | 24.77 | 297.860 | 08/11/2002 | 0.000 | Dry Bed | 01/06/2002 |
| 2003-2004 | 18.60 | 297.690 | 30/11/2003 | 0.000 | Dry Bed | 01/06/2003 |
| 2004-2005 | 43.98 | 297.950 | 14/11/2004 | 0.000 | Dry Bed | 01/06/2004 |
| 2005-2006 | 219.1 | 298.670 | 12/12/2005 | 0.000 | Dry Bed | 03/06/2005 |
| 2006-2007 | 85.44 | 298.115 | 22/11/2006 | 0.000 | Dry Bed | 01/06/2006 |
| 2007-2008 | 160.0 | 298.775 | 21/03/2008 | 0.000 | Dry Bed | 01/06/2007 |
| 2008-2009 | 107.8 | 298.170 | 21/10/2008 | 0.000 | Dry Bed | 01/06/2008 |
| 2009-2010 | 74.00 | 298.900 | 08/11/2009 | 0.000 | Dry Bed | 01/06/2009 |
| 2010-2011 | 45.01 | 297.320 | 03/12/2010 | 0.000 | Dry Bed | 01/06/2010 |
| 2011-2012 | 113.1 | 297.950 | 27/11/2011 | 0.000 | Dry Bed | 01/06/2011 |
| 2012-2013 | 12.35 | 296.980 | 23/10/2012 | 0.000 | Dry Bed | 01/06/2012 |
| 2013-2014 | 4.522 | 296.895 | 14/12/2013 | 0.000 | Dry Bed | 01/06/2013 |
| 2014-2015 | 27.22 | 297.380 | 23/10/2014 | 0.000 | Dry Bed | 01/06/2014 |

Q : Observed / Computed Discharge
WL : Corresponding Water Level(m.s.l)

## Stage-Discharge Data for the period 2015 - 2016

**Station Name : AMBASAMUDRAM ( CV000U2)** **Division : SR Division, Coimbatore**

**Local River : Vaigai** **Sub-Division : Vaigai SD Madurai**

| Day | Jun | | Jul | | Aug | | Sep | | Oct | | Nov | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | W.L | Q | W.L | Q | W.L | Q | W.L | Q | W.L | Q | W.L | Q |
| 1 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 296.170 | 4.266 * |
| 2 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 296.400 | 12.23 |
| 3 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 296.210 | 6.714 |
| 4 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 296.170 | 4.622 |
| 5 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 296.200 | 5.113 |
| 6 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 296.080 | 0.837 | 296.210 | 5.896 |
| 7 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 296.080 | 1.767 # | 296.170 | 4.698 |
| 8 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 296.210 | 5.642 * |
| 9 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 296.290 | 9.960 |
| 10 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 296.250 | 7.171 * |
| 11 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 296.170 | 3.893 |
| 12 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 296.150 | 3.817 |
| 13 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 296.120 | 3.070 |
| 14 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 296.180 | 5.497 |
| 15 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 296.110 | 2.262 | 296.150 | 3.636 * |
| 16 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 296.110 | 2.219 | 296.120 | 3.216 |
| 17 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 296.060 | 1.336 # | 296.140 | 3.559 |
| 18 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 296.020 | 0.000 | 296.150 | 3.528 |
| 19 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 296.020 | 0.000 | 296.850 | 45.16 # |
| 20 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 296.090 | 1.475 | 296.860 | 46.00 # |
| 21 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 296.750 | 37.08 # |
| 22 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 296.400 | 14.14 * |
| 23 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 296.615 | 28.68 |
| 24 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 296.730 | 31.69 |
| 25 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 296.450 | 16.87 * |
| 26 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 296.400 | 12.24 |
| 27 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 296.330 | 11.25 |
| 28 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 296.280 | 10.37 |
| 29 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 296.250 | 7.171 * |
| 30 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 296.140 | 3.985 | 296.250 | 7.171 # |
| 31 | | | | 0.000 | | 0.000 | | | 296.090 | 1.449 | | |
| **Ten-Daily Mean** | | | | | | | | | | | | |
| I Ten-Daily | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 296.080 | 0.260 | 296.228 | 6.631 |
| II Ten-Daily | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 296.068 | 0.729 | 296.289 | 12.14 |
| III Ten-Daily | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 296.115 | 0.494 | 296.445 | 17.67 |
| **Monthly** | | | | | | | | | | | | |
| Min. | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 296.020 | 0.000 | 296.120 | 3.070 |
| Max. | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 296.140 | 3.985 | 296.860 | 46.00 |
| Mean | | 0 | | 0 | | 0 | | 0 | 296.080 | 0.495 | 296.321 | 12.14 |

**Annual Runoff in MCM = 87 Annual Runoff in mm = 102**

**Peak Observed Discharge = 56.95 cumecs on 03/12/2015 Corres. Water Level :297.325 m**

**Lowest Observed Discharge = 0.000 cumecs on 01/06/2015**

Q: Observed/Computed Discharge in cumecs

WL:Corresponding Mean Water Level(m.s.l) in m

*:Computed Discharge

#:Discarded Discharge (values changed as per rating curve)

*Note:Missing values ignored while arriving at Annual Runoff*

## Stage-Discharge Data for the period 2015 - 2016

**Station Name : AMBASAMUDRAM ( CV000U2)** **Division : SR Division, Coimbatore**

**Local River : Vaigai** **Sub-Division : Vaigai SD Madurai**

| Day | Dec | | Jan | | Feb | | Mar | | Apr | | May | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | W.L | Q | WL | Q | WL | Q | WL | Q | WL | Q | WL | Q |
| 1 | 296.380 | 14.44 | 296.140 | 5.325 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 2 | 296.290 | 10.36 | 296.110 | 3.903 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 3 | 297.325 | 56.95 | 296.100 | 3.232 * | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 4 | 296.575 | 23.69 | 296.080 | 3.027 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 5 | 296.440 | 17.26 | 296.070 | 2.821 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 6 | 296.800 | 32.04 * | 296.070 | 2.804 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 7 | 296.700 | 31.46 | 296.060 | 2.540 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 8 | 296.870 | 35.59 # | 296.050 | 2.070 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 9 | 296.710 | 32.28 | 296.040 | 1.921 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 10 | 296.615 | 25.44 | 296.030 | 1.473 * | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 11 | 296.520 | 19.60 | 296.020 | 1.227 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 12 | 296.460 | 16.98 | 296.010 | 0.910 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 13 | 296.460 | 19.89 * | 296.020 | 1.009 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 14 | 296.480 | 19.75 | 296.010 | 0.883 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 15 | 296.415 | 16.91 | 296.010 | 1.079 * | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 16 | 296.350 | 14.33 | 296.010 | 0.870 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 17 | 296.350 | 13.97 | 295.990 | 0.737 * | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 18 | 296.330 | 11.58 | 295.980 | 0.461 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 19 | 296.350 | 13.84 | 295.970 | 0.429 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 20 | 296.840 | 48.82 * | 295.960 | 0.351 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 21 | 296.500 | 19.96 | 295.940 | 0.138 # | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 22 | 296.340 | 14.37 | 295.920 | 0.021 # | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 23 | 296.340 | 14.84 | 295.950 | 0.244 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 24 | 296.280 | 10.10 * | 295.940 | 0.138 * | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 25 | 296.250 | 8.740 * | 295.930 | 0.069 # | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 26 | 296.230 | 8.545 | 295.920 | 0.021 * | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 27 | 296.210 | 7.056 * | 295.890 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 28 | 296.190 | 6.728 | 295.880 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 29 | 296.180 | 6.393 | 295.870 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 30 | 296.170 | 6.466 | 295.870 | 0.000 | | | | 0.000 | | 0.000 | | 0.000 |
| 31 | 296.150 | 5.745 | | 0.000 | | | | 0.000 | | | | 0.000 |
| Ten-Daily Mean | | | | | | | | | | | | |
| I Ten-Daily | 296.670 | 27.95 | 296.075 | 2.911 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| II Ten-Daily | 296.456 | 19.57 | 295.998 | 0.796 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| III Ten-Daily | 296.258 | 9.904 | 295.911 | 0.057 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| Monthly | | | | | | | | | | | | |
| Min. | 296.150 | 5.745 | 295.870 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| Max. | 297.325 | 56.95 | 296.140 | 5.325 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| Mean | 296.455 | 18.84 | 295.995 | 1.216 | | 0 | | 0 | | 0 | | 0 |

**Peak Computed Discharge = 48.82 cumecs on 20/12/2015** **Corres. Water Level :296.84 m**

**Lowest Computed Discharge = 0.021 cumecs on 26/01/2016** **Corres. Water Level :295.92 m**

Q: Observed/Computed Discharge in cumecs

WL:Corresponding Mean Water Level(m.s.l) in m

*:Computed Discharge

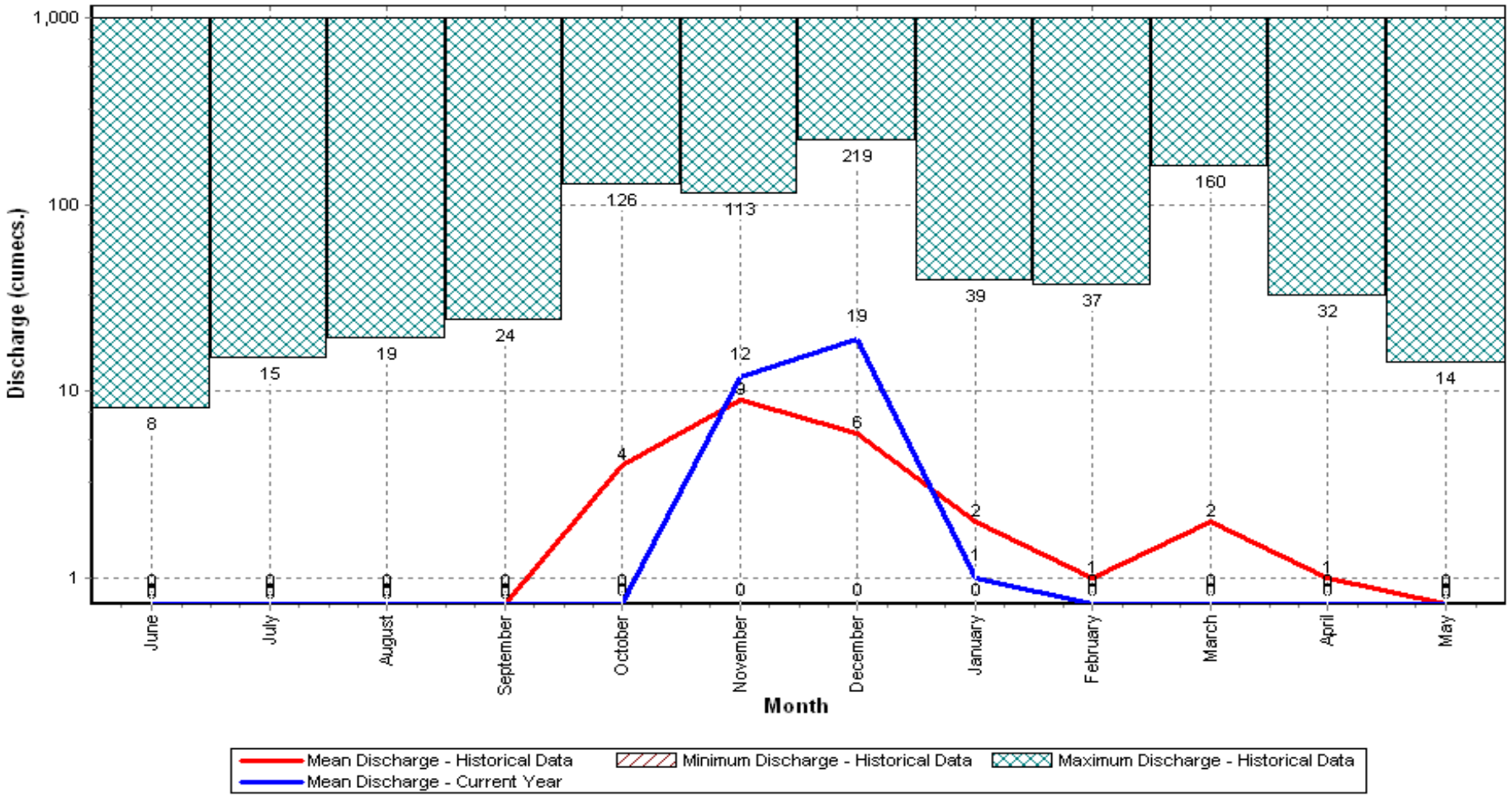
#:Discarded Discharge (values changed as per rating curve)

*Note:Missing values ignored while arriving at Annual Runoff*

**HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016**

**Station Name : AMBASAMUDRAM ( CV000U2)** | **Data considered : 1999-2016** | **Division : SR Division, Coimbatore**

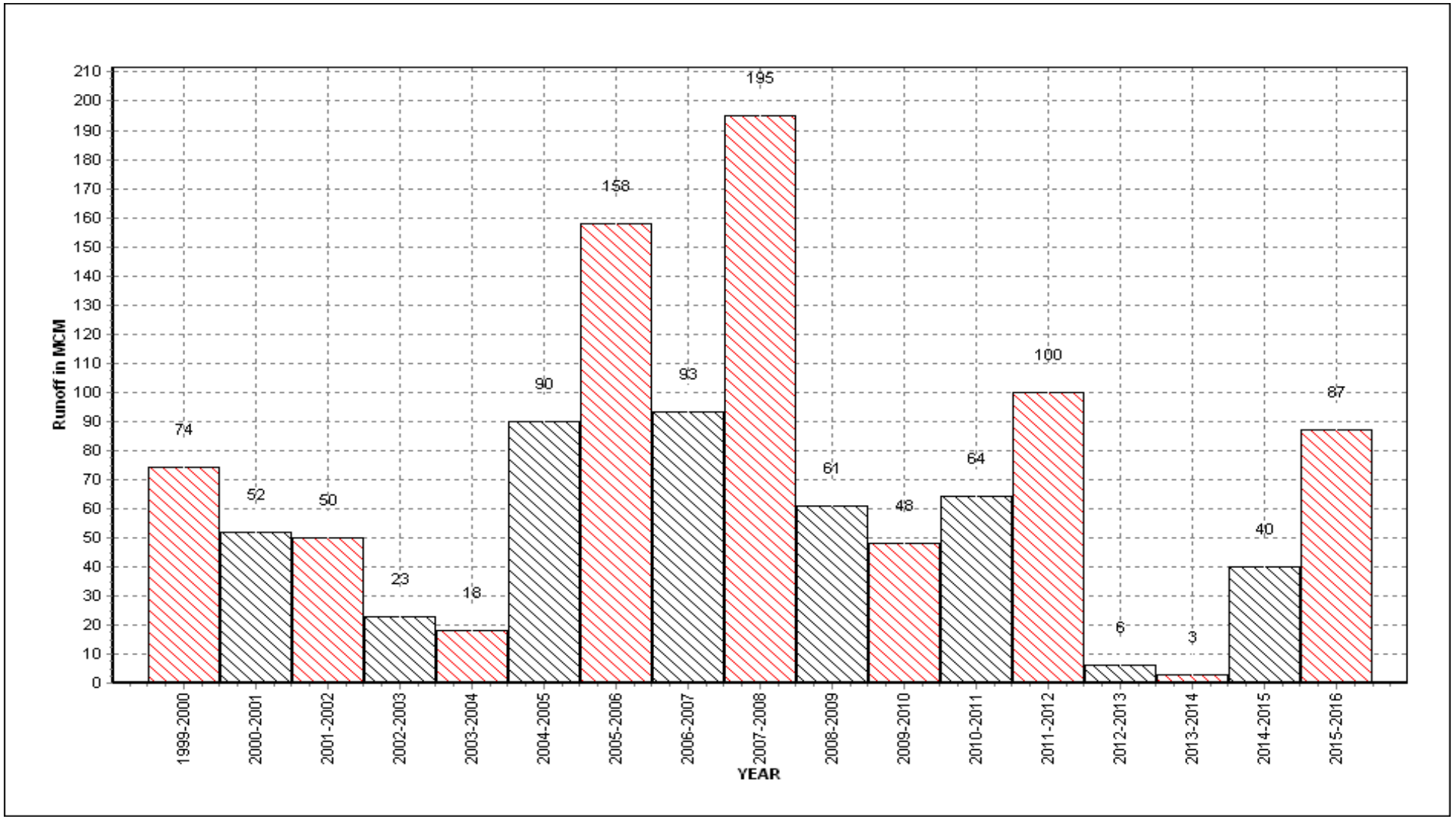
**Local River : Vaigai** | **Sub-Division : Vaigai SD Madurai**



**Annual Runoff Values for the period: 1999 - 2016**

**Station Name : AMBASAMUDRAM ( CV000U2)** **Division : SR Division, Coimbatore**

**Local River : Vaigai** **Sub-Division : Vaigai SD Madurai**

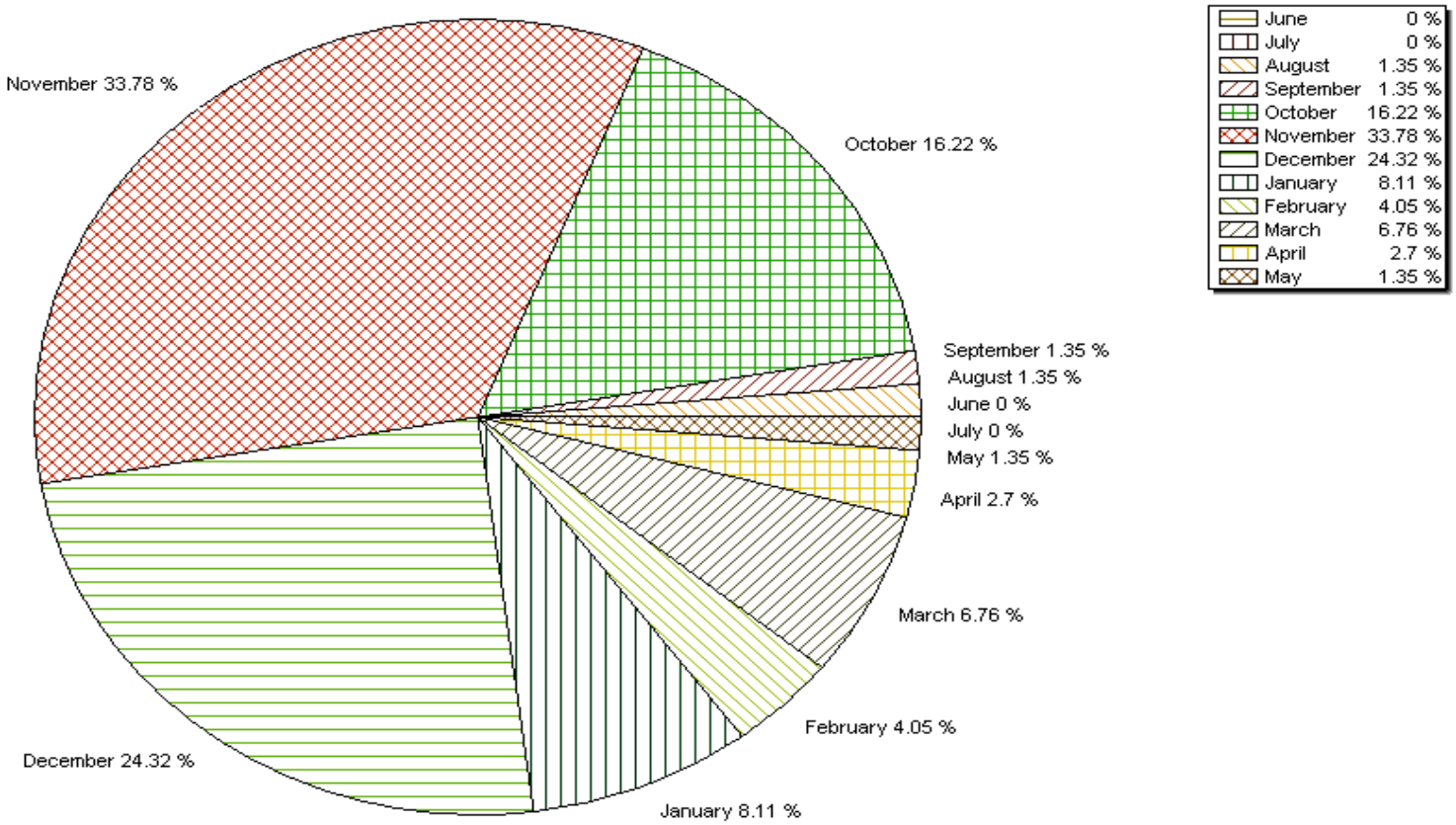



*Note: Missing values have not been considered while arriving at Annual Runoff*

**Monthly Average Runoff based on period : 1999-2015**

**Station Name : AMBASAMUDRAM ( CV000U2)**
**Local River : Vaigai**

**Division : SR Division, Coimbatore**
**Sub-Division : Vaigai SD Madurai**



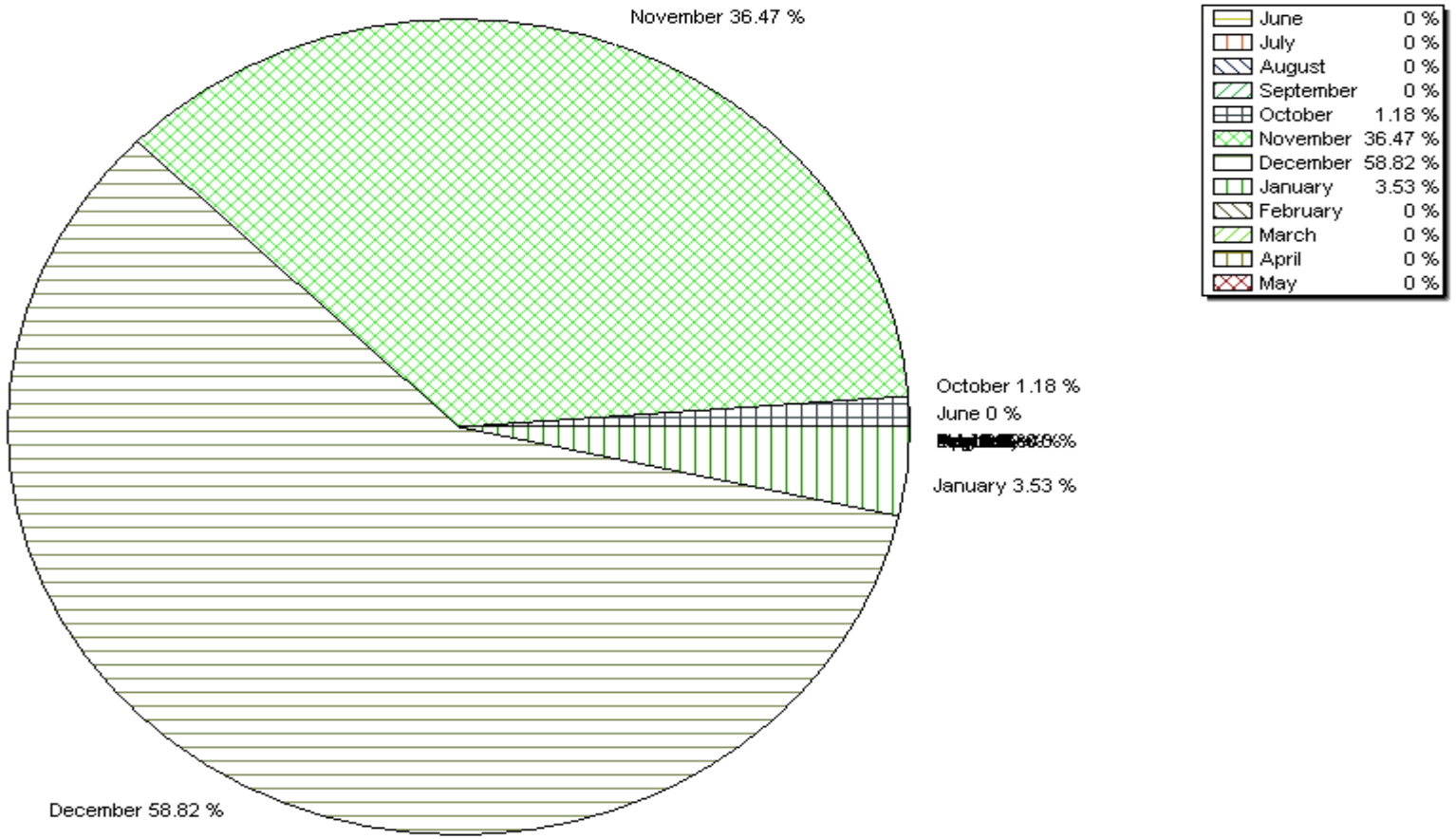
**Monthly Runoff for the Year : 2015-2016**

**Station Name : AMBASAMUDRAM ( CV000U2)**

**Local River : Vaigai**

**Division : SR Division, Coimbatore**

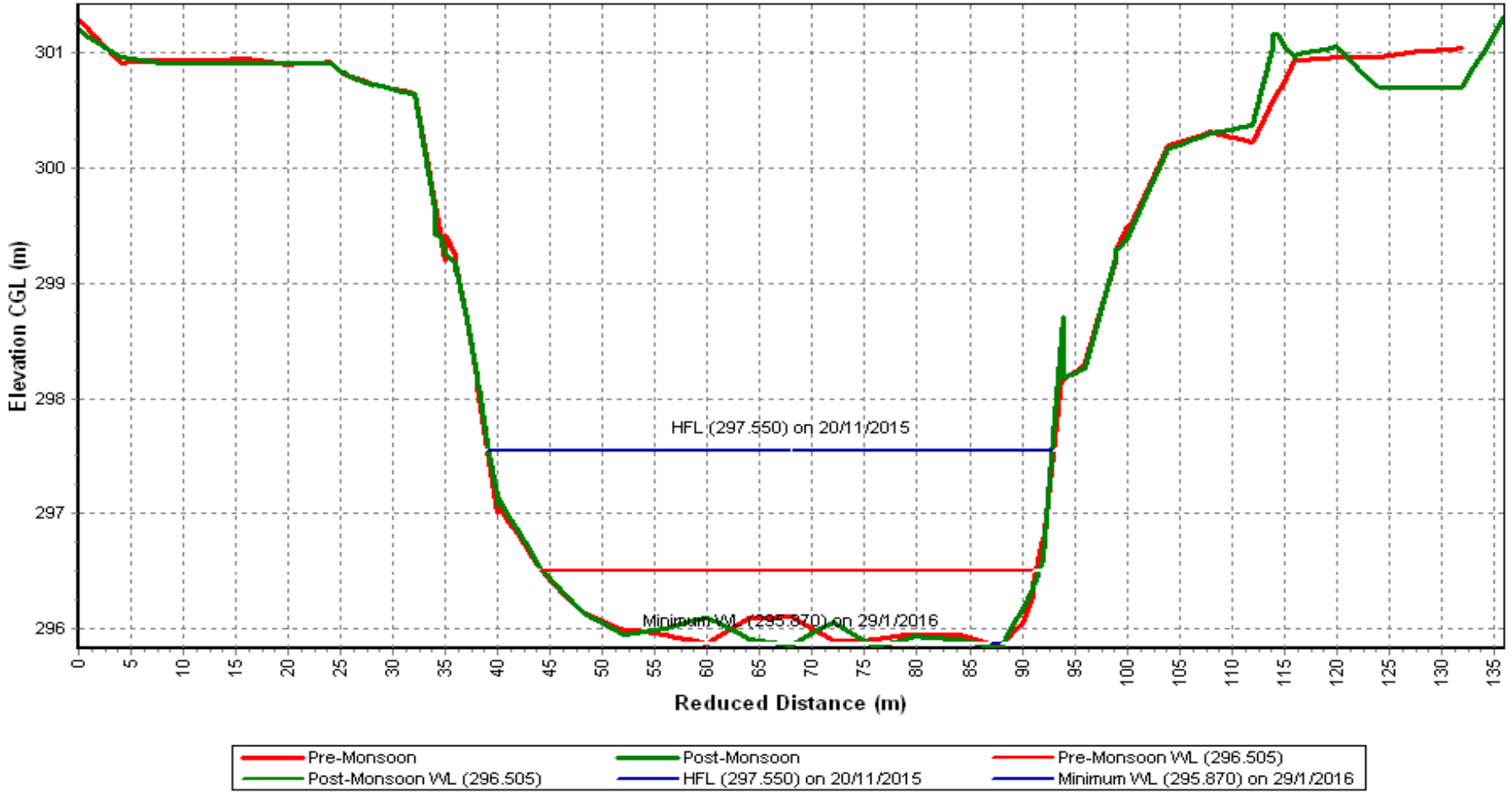
**Sub-Division : Vaigai SD Madurai**



**Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2015-2016**

**Station Name : AMBASAMUDRAM ( CV000U2)** **Division : SR Division, Coimbatore**

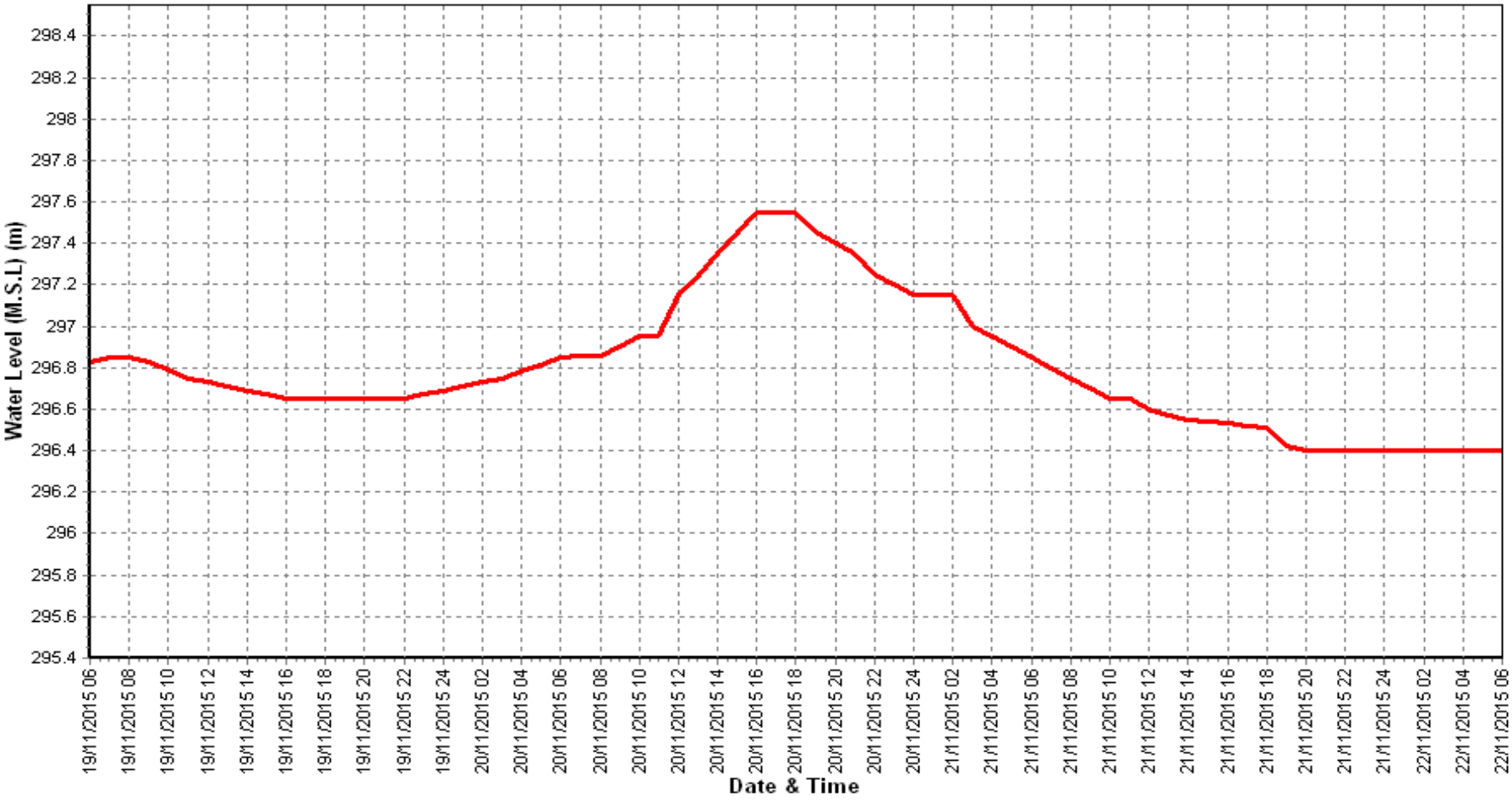
**Local River : Vaigai** **Sub-Division : Vaigai SD Madurai**



**Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2015-2016**

**Station Name : AMBASAMUDRAM ( CV000U2)** **Division : SR Division, Coimbatore**

**Local River : Vaigai** **Sub-Division : Vaigai SD Madurai**

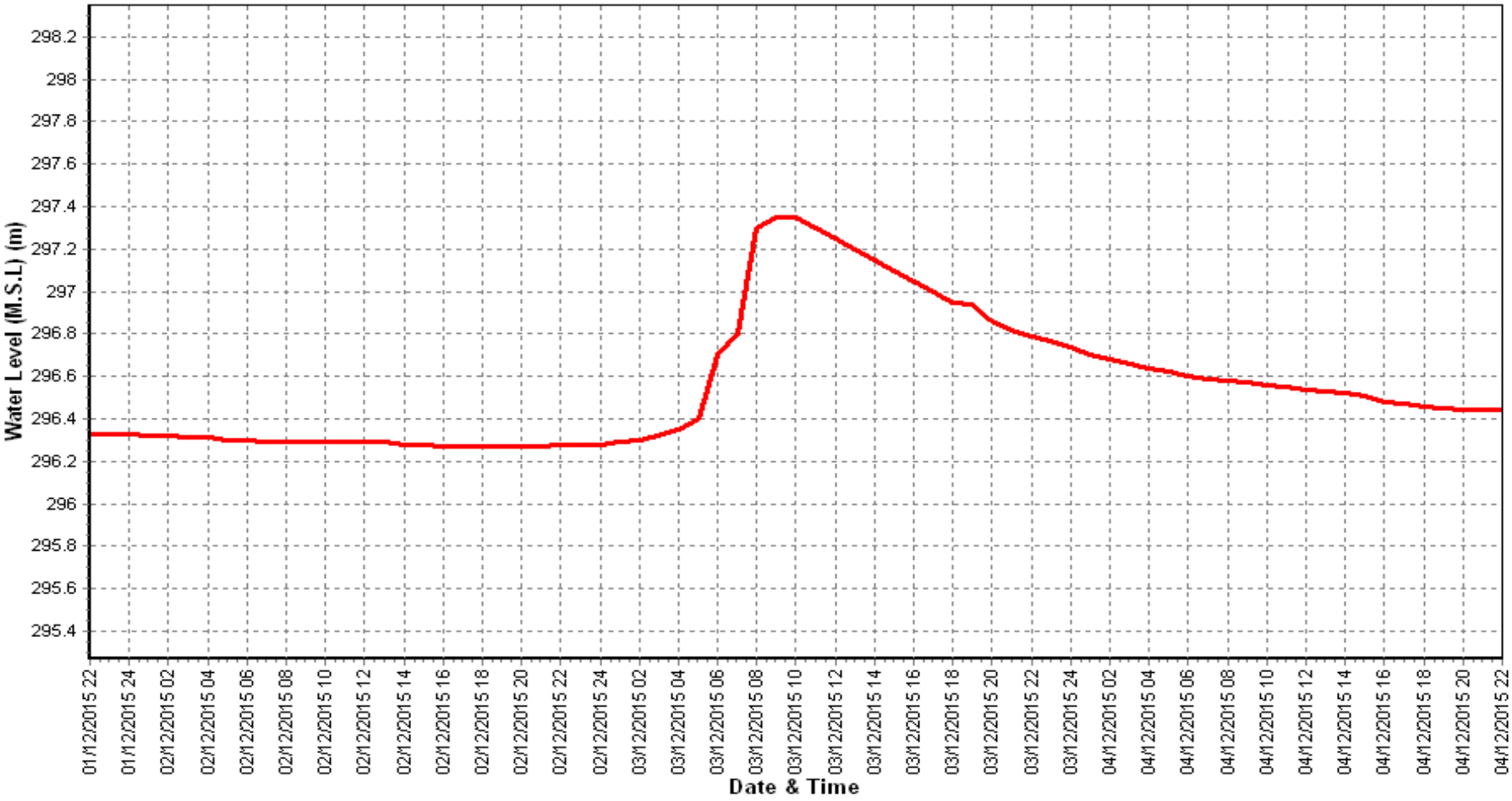



Time Span: 72 Hrs

**Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2015-2016**

**Station Name : AMBASAMUDRAM ( CV000U2)** **Division : SR Division, Coimbatore**

**Local River : Vaigai** **Sub-Division : Vaigai SD Madurai**

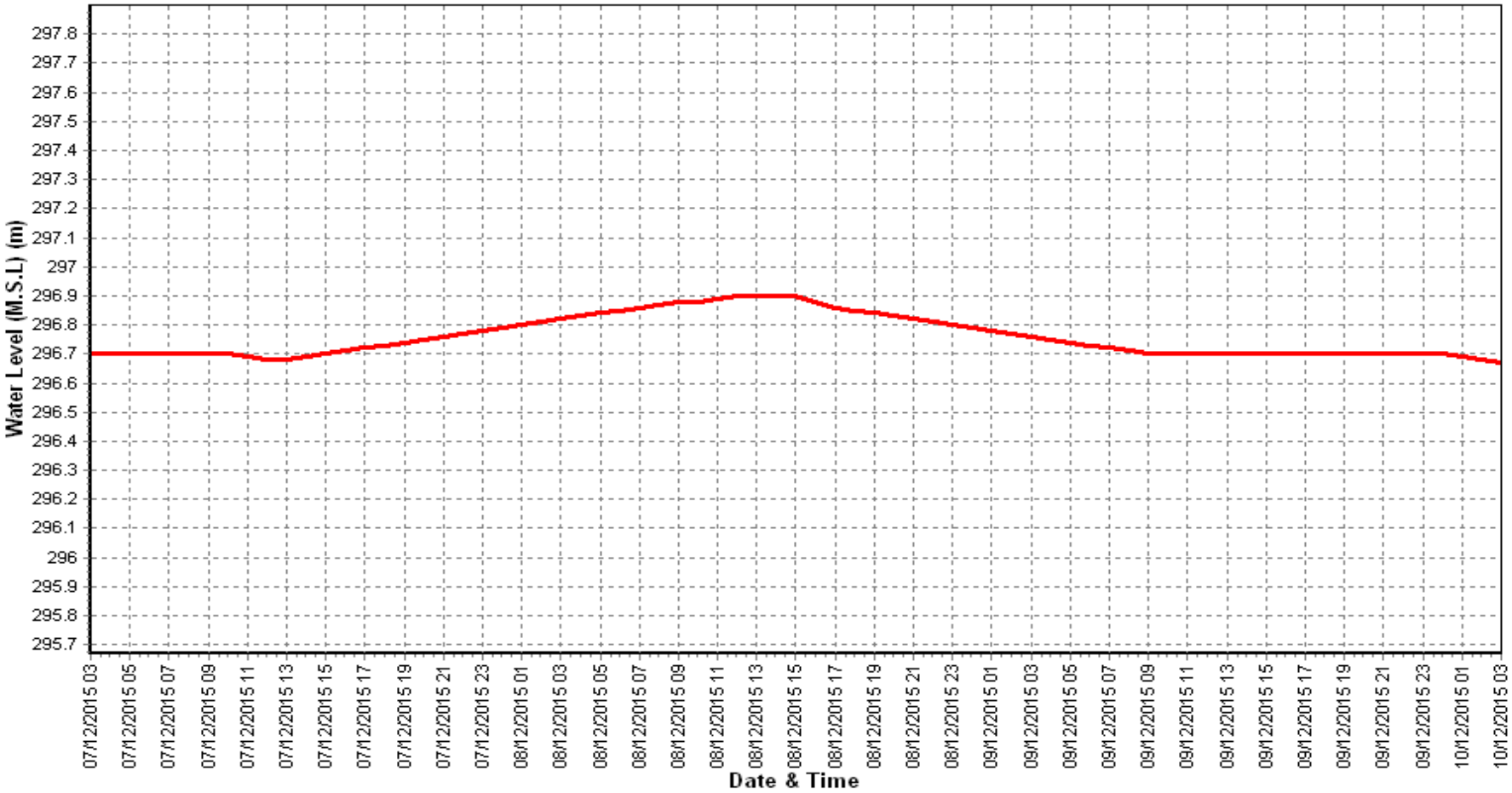



Time Span: 72 Hrs

**Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2015-2016**

**Station Name : AMBASAMUDRAM ( CV000U2)** **Division : SR Division, Coimbatore**

**Local River : Vaigai** **Sub-Division : Vaigai SD Madurai**




Time Span: 72 Hrs

## HISTORY SHEET

**Water Year : 2015-2016**

| | | | | | |
|---|---|---|---|---|---|
| **Site** | **: IRRUKKANKUDI** | | **Code** | **: CY000K7** | |
| State | : Tamil Nadu | | District | | Virudhunagar |
| Basin | : EFR South of Cauvery | | Independent River | : | Vaippar |
| Tributary | : - | | Sub Tributary | : | - |
| Sub-Sub Tributary | : - | | Local River | : | Vaippar |
| Division | : SR Division, Coimbatore | | Sub-Division | : | Vaigai SD Madurai |
| Drainage Area | : 3721 Sq. Km. | | Bank | : | Left |
| Latitude | : 09°19'27" | | Longitude | : | 77°59'26" |
| **Zero of Gauge (m)** | : 46.000 (m.s.l) | | 25/09/1989 | | |
| | Opening Date | | Closing Date | | |
| Gauge | : 25/09/1989 | | | | |
| Discharge | : 25/11/1989 | | | | |
| Sediment | : | | | | |
| Water Quality | : 01/06/1993 | | | | |

**Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)**

| | Maximum | | | Minimum | | |
|---|---|---|---|---|---|---|
| **Year** | **Q (cumecs)** | **WL (m)** | **Date** | **Q (cumecs)** | **WL (m)** | **Date** |
| 1990-1991 | 704.4 | 49.675 | 01/11/1990 | 0.000 | Dry Bed | 01/06/1990 |
| 1991-1992 | 21.59 | 47.533 | 22/10/1991 | 0.000 | Dry Bed | 01/06/1991 |
| 1992-1993 | 97.18 | 48.610 | 15/11/1992 | 0.000 | Dry Bed | 01/06/1992 |
| 1993-1994 | 497.5 | 49.887 | 10/11/1993 | 0.000 | Dry Bed | 01/06/1993 |
| 1994-1995 | 40.55 | 48.070 | 31/10/1994 | 0.000 | Dry Bed | 01/06/1994 |
| 1995-1996 | 0.000 | Dry Bed | 01/06/1995 | 0.000 | Dry Bed | 01/06/1995 |
| 1996-1997 | 192.1 | 48.700 | 17/10/1996 | 0.000 | Dry Bed | 01/06/1996 |
| 1997-1998 | 1032 | 50.800 | 09/12/1997 | 0.000 | Dry Bed | 01/06/1997 |
| 1998-1999 | 232.5 | 51.000 | 14/12/1998 | 0.000 | Dry Bed | 01/06/1998 |
| 1999-2000 | 25.14 | 47.740 | 24/11/1999 | 0.000 | Dry Bed | 01/06/1999 |
| 2000-2001 | 0.000 | Dry Bed | 01/06/2000 | 0.000 | Dry Bed | 01/06/2000 |
| 2001-2002 | 55.29 | 48.150 | 17/11/2001 | 0.000 | Dry Bed | 01/06/2001 |
| 2002-2003 | 18.84 | 47.825 | 12/11/2002 | 0.000 | Dry Bed | 01/06/2002 |
| 2003-2004 | 11.79 | 47.690 | 29/10/2003 | 0.000 | Dry Bed | 01/06/2003 |
| 2004-2005 | 379.3 | 49.980 | 02/11/2004 | 0.000 | Dry Bed | 01/06/2004 |
| 2005-2006 | 26.32 | 47.990 | 26/11/2005 | 0.000 | Dry Bed | 01/06/2005 |
| 2006-2007 | 41.75 | 49.400 | 22/11/2006 | 0.000 | Dry Bed | 19/06/2006 |
| 2007-2008 | 16.50 | 47.520 | 11/04/2008 | 0.000 | Dry Bed | 01/06/2007 |
| 2008-2009 | 137.4 | 47.850 | 23/10/2008 | 0.000 | Dry Bed | 01/06/2008 |

Q : Observed / Computed Discharge
WL : Corresponding Water Level(m.s.l)

**Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)**

| | Maximum | | | Minimum | | |
|---|---|---|---|---|---|---|
| **Year** | **Q (cumecs)** | **WL (m)** | **Date** | **Q (cumecs)** | **WL (m)** | **Date** |
| 2009-2010 | 0.000 | Dry Bed | 01/06/2009 | 0.000 | Dry Bed | 01/06/2009 |
| 2010-2011 | 15.41 | 47.740 | 26/11/2010 | 0.000 | Dry Bed | 01/06/2010 |
| 2011-2012 | 1.928 | 47.150 | 23/12/2011 | 0.000 | Dry Bed | 01/06/2011 |
| 2012-2013 | 0.000 | Dry Bed | 01/06/2012 | 0.000 | Dry Bed | 01/06/2012 |
| 2013-2014 | 0.000 | Dry Bed | 01/06/2013 | 0.000 | Dry Bed | 01/06/2013 |
| 2014-2015 | 0.000 | Dry Bed | 01/06/2014 | 0.000 | Dry Bed | 01/06/2014 |

Q : Observed / Computed Discharge
WL : Corresponding Water Level(m.s.l)

## Stage-Discharge Data for the period 2015 - 2016

**Station Name : IRRUKKANKUDI ( CY000K7)** **Division : SR Division, Coimbatore**

**Local River : Vaippar** **Sub-Division : Vaigai SD Madurai**

| Day | Jun | | Jul | | Aug | | Sep | | Oct | | Nov | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | W.L | Q | W.L | Q | W.L | Q | W.L | Q | W.L | Q | W.L | Q |
| 1 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 2 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 3 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 4 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 5 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 6 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 7 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 8 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 9 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 10 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 11 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 12 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 13 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 14 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 15 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 16 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 17 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 18 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 19 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 20 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 21 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 22 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 23 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 24 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 25 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 26 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 27 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 28 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 29 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 30 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| 31 | | | | 0.000 | | 0.000 | | | | 0.000 | | |
| **Ten-Daily Mean** | | | | | | | | | | | | |
| I Ten-Daily | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| II Ten-Daily | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| III Ten-Daily | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| **Monthly** | | | | | | | | | | | | |
| Min. | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| Max. | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| Mean | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |

**Annual Runoff in MCM = 36 Annual Runoff in mm = 10**

**Peak Observed Discharge = 37.58 cumecs on 05/12/2015 Corres. Water Level :47.51 m**

**Lowest Observed Discharge = 0.000 cumecs on 01/06/2015**

Q: Observed/Computed Discharge in cumecs

WL:Corresponding Mean Water Level(m.s.l) in m

*:Computed Discharge

#:Discarded Discharge (values changed as per rating curve)

*Note:Missing values ignored while arriving at Annual Runoff*

## Stage-Discharge Data for the period 2015 - 2016

**Station Name : IRRUKKANKUDI ( CY000K7)** **Division : SR Division, Coimbatore**

**Local River : Vaippar** **Sub-Division : Vaigai SD Madurai**

| Day | Dec | | Jan | | Feb | | Mar | | Apr | | May | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | W.L | Q | WL | Q | WL | Q | WL | Q | WL | Q | WL | Q |
| 1 | | 0.000 | 46.845 | 0.483 | 46.850 | 0.187 | 46.780 | 0.178 | 46.790 | 0.136 | 46.800 | 0.160 * |
| 2 | | 0.000 | 46.840 | 0.478 | 46.850 | 0.175 | 46.800 | 0.152 | 46.785 | 0.128 | 46.790 | 0.155 |
| 3 | | 0.000 | 46.850 | 0.508 * | 46.845 | 0.163 | 46.820 | 0.126 | 46.790 | 0.154 * | 46.800 | 0.167 |
| 4 | 47.460 | 33.12 | 46.840 | 0.425 | 46.810 | 0.209 | 46.810 | 0.169 | 46.785 | 0.130 | 46.795 | 0.155 |
| 5 | 47.510 | 37.58 | 46.850 | 0.449 | 46.800 | 0.205 | 46.810 | 0.169 | 46.795 | 0.150 | 46.795 | 0.159 |
| 6 | 47.250 | 15.76 * | 46.855 | 0.555 # | 46.810 | 0.212 | 46.820 | 0.174 * | 46.795 | 0.152 | 46.800 | 0.157 |
| 7 | 47.120 | 11.53 | 46.845 | 0.407 | 46.820 | 0.229 * | 46.800 | 0.197 | 46.790 | 0.148 | 46.790 | 0.154 |
| 8 | 47.000 | 3.479 | 46.835 | 0.157 # | 46.830 | 0.229 | 46.805 | 0.156 | 46.800 | 0.147 | 46.805 | 0.164 * |
| 9 | 47.200 | 16.25 | 46.835 | 0.157 # | 46.800 | 0.216 | 46.805 | 0.180 | 46.795 | 0.158 | 46.790 | 0.148 |
| 10 | 47.300 | 18.35 | 46.835 | 0.157 * | 46.820 | 0.215 | 46.800 | 0.153 | 46.800 | 0.160 * | 46.785 | 0.155 |
| 11 | 47.260 | 16.37 # | 46.835 | 0.168 | 46.800 | 0.221 | 46.805 | 0.166 | 46.805 | 0.162 | 46.800 | 0.160 # |
| 12 | 47.110 | 7.536 | 46.835 | 0.139 | 46.820 | 0.238 | 46.800 | 0.159 | 46.800 | 0.179 | 46.800 | 0.160 # |
| 13 | 47.000 | 4.383 * | 46.835 | 0.146 | 46.815 | 0.258 | 46.805 | 0.164 * | 46.810 | 0.144 | 46.795 | 0.188 |
| 14 | 47.500 | 35.36 | 46.835 | 0.167 | 46.820 | 0.229 * | 46.805 | 0.148 | 46.805 | 0.164 * | 46.790 | 0.144 |
| 15 | 47.500 | 33.34 | 46.835 | 0.157 * | 46.810 | 0.237 | 46.800 | 0.163 | 46.800 | 0.194 | 46.800 | 0.160 * |
| 16 | 47.300 | 17.43 | 46.840 | 0.181 | 46.810 | 0.167 # | 46.810 | 0.148 | 46.805 | 0.185 | 46.805 | 0.164 * |
| 17 | 47.110 | 8.476 # | 46.845 | 0.181 * | 46.820 | 0.191 | 46.805 | 0.150 | 46.800 | 0.160 * | 46.800 | 0.160 # |
| 18 | 47.300 | 18.36 | 46.840 | 0.177 | 46.805 | 0.187 | 46.805 | 0.146 | 46.805 | 0.162 | 46.795 | 0.175 |
| 19 | 47.000 | 4.493 | 46.850 | 0.193 | 46.810 | 0.175 | 46.805 | 0.153 | 46.800 | 0.188 | 46.790 | 0.153 |
| 20 | 47.300 | 18.94 * | 46.850 | 0.217 | 46.820 | 0.181 | 46.800 | 0.160 * | 46.800 | 0.160 * | 46.790 | 0.163 |
| 21 | 47.250 | 15.76 # | 46.850 | 0.208 | 46.800 | 0.160 * | 46.800 | 0.158 | 46.805 | 0.167 | 46.800 | 0.160 * |
| 22 | 47.280 | 17.63 # | 46.850 | 0.221 | 46.820 | 0.190 | 46.810 | 0.157 | 46.815 | 0.171 | 46.800 | 0.160 * |
| 23 | 47.350 | 20.70 | 46.850 | 0.193 # | 46.810 | 0.190 | 46.820 | 0.133 | 46.805 | 0.157 | 46.805 | 0.165 |
| 24 | 47.110 | 8.476 * | 46.850 | 0.193 * | 46.830 | 0.187 | 46.815 | 0.150 | 46.805 | 0.164 * | 46.810 | 0.175 |
| 25 | 47.200 | 12.89 * | 46.850 | 0.214 | 46.800 | 0.183 | 46.800 | 0.160 * | 46.805 | 0.163 | 46.810 | 0.174 |
| 26 | 46.900 | 2.156 | 46.850 | 0.193 * | 46.800 | 0.182 | 46.795 | 0.158 | 46.810 | 0.144 | 46.815 | 0.167 |
| 27 | 47.050 | 6.069 * | 46.855 | 0.188 | 46.820 | 0.184 | 46.790 | 0.154 * | 46.805 | 0.168 | 46.815 | 0.178 |
| 28 | 46.880 | 1.576 | 46.855 | 0.207 | 46.815 | 0.171 * | 46.790 | 0.141 | 46.805 | 0.156 | 46.800 | 0.176 |
| 29 | 46.860 | 0.600 | 46.855 | 0.192 | 46.820 | 0.198 | 46.780 | 0.130 | 46.810 | 0.173 | 46.800 | 0.160 * |
| 30 | 46.860 | 0.647 | 46.850 | 0.186 | | | 46.780 | 0.152 | 46.805 | 0.148 | 46.805 | 0.175 |
| 31 | 46.850 | 0.558 | 46.850 | 0.193 * | | | 46.785 | 0.129 | | | 46.810 | 0.193 |
| **Ten-Daily Mean** | | | | | | | | | | | | |
| I Ten-Daily | 47.263 | 13.61 | 46.843 | 0.378 | 46.823 | 0.204 | 46.805 | 0.165 | 46.792 | 0.146 | 46.795 | 0.157 |
| II Ten-Daily | 47.238 | 16.47 | 46.840 | 0.173 | 46.813 | 0.208 | 46.804 | 0.156 | 46.803 | 0.170 | 46.797 | 0.163 |
| III Ten-Daily | 47.054 | 7.915 | 46.851 | 0.199 | 46.813 | 0.183 | 46.797 | 0.147 | 46.807 | 0.161 | 46.806 | 0.171 |
| **Monthly** | | | | | | | | | | | | |
| Min. | 46.850 | 0.000 | 46.835 | 0.139 | 46.800 | 0.160 | 46.780 | 0.126 | 46.785 | 0.128 | 46.785 | 0.144 |
| Max. | 47.510 | 37.58 | 46.855 | 0.555 | 46.850 | 0.258 | 46.820 | 0.197 | 46.815 | 0.194 | 46.815 | 0.193 |
| Mean | 47.172 | 12.51 | 46.845 | 0.248 | 46.817 | 0.199 | 46.802 | 0.156 | 46.801 | 0.159 | 46.800 | 0.164 |

**Peak Computed Discharge = 18.94 cumecs on 20/12/2015 Corres. Water Level :47.3 m**

**Lowest Computed Discharge = 0.154 cumecs on 27/03/2016 Corres. Water Level :46.79 m**

Q: Observed/Computed Discharge in cumecs

WL:Corresponding Mean Water Level(m.s.l) in m

*:Computed Discharge

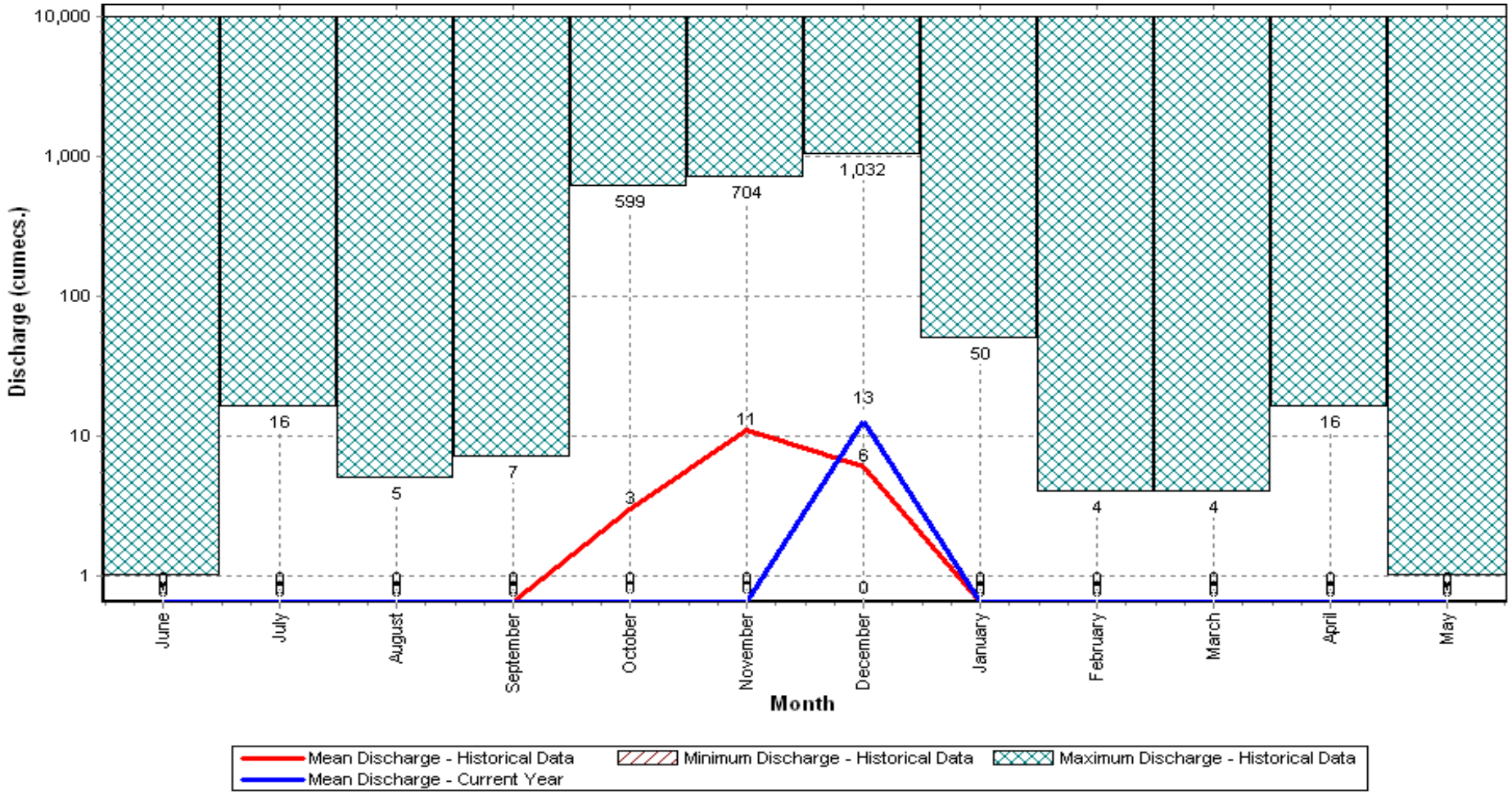
#:Discarded Discharge (values changed as per rating curve)

*Note:Missing values ignored while arriving at Annual Runoff*

**HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016**

**Station Name : IRRUKKANKUDI ( CY000K7)** | **Data considered : 1990-2016** | **Division : SR Division, Coimbatore**

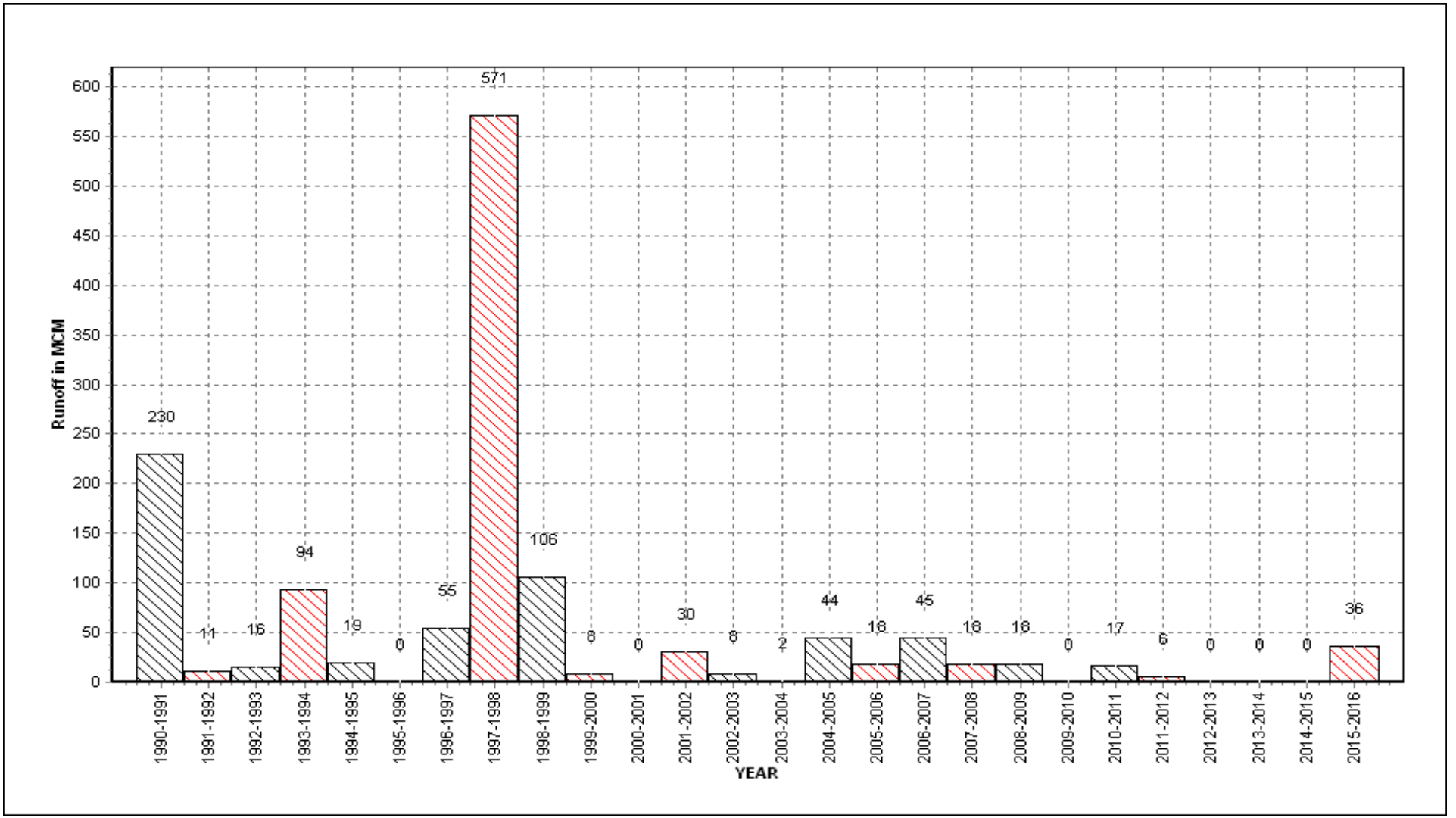
**Local River : Vaippar** | **Sub-Division : Vaigai SD Madurai**



**Annual Runoff Values for the period: 1990 - 2016**

**Station Name : IRRUKKANKUDI ( CY000K7)** **Division : SR Division, Coimbatore**

**Local River : Vaippar** **Sub-Division : Vaigai SD Madurai**




*Note: Missing values have not been considered while arriving at Annual Runoff*

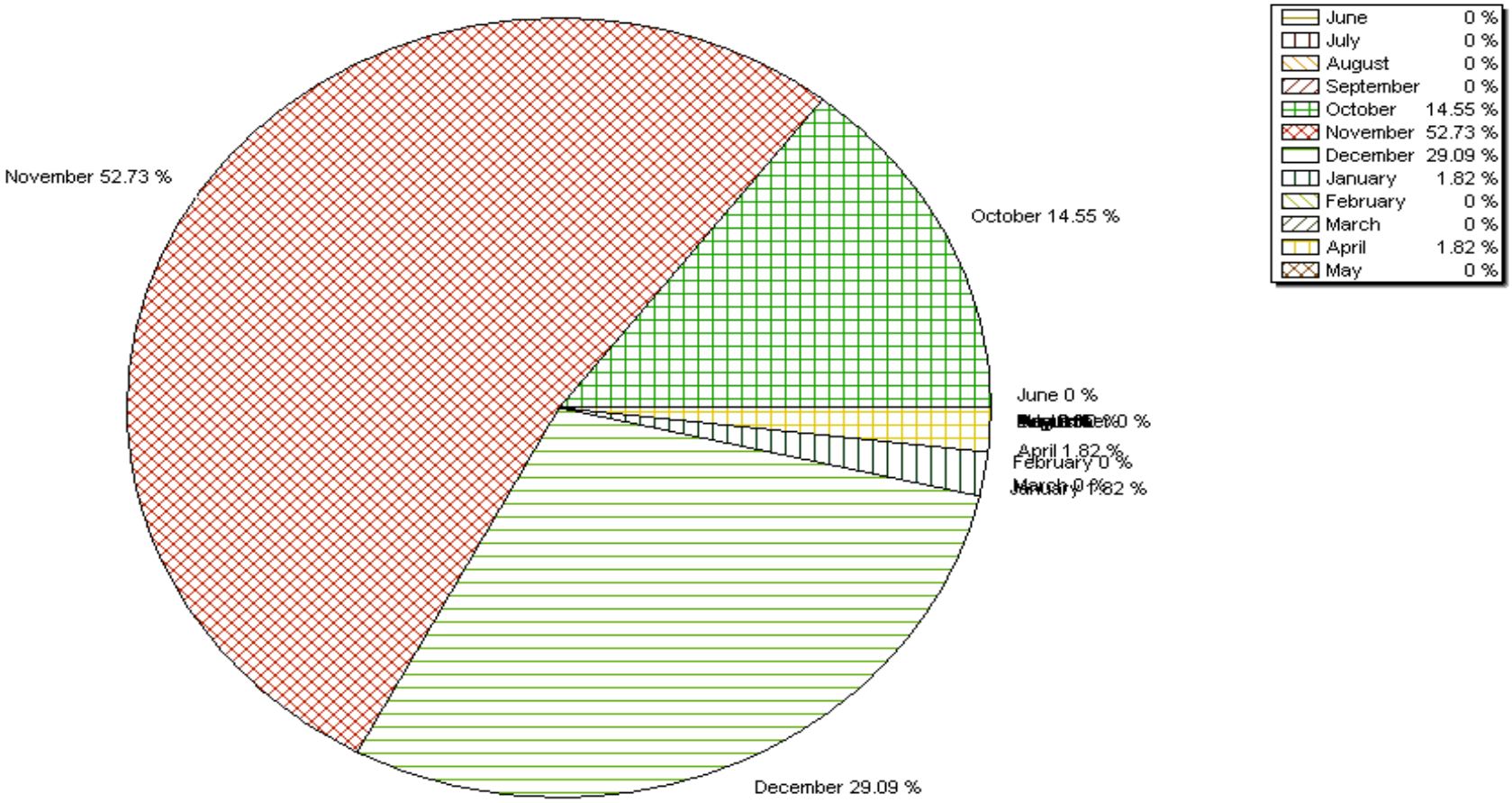
**Monthly Average Runoff based on period : 1990-2015**

**Station Name : IRRUKKANKUDI ( CY000K7)**

**Local River : Vaippar**

**Division : SR Division, Coimbatore**

**Sub-Division : Vaigai SD Madurai**



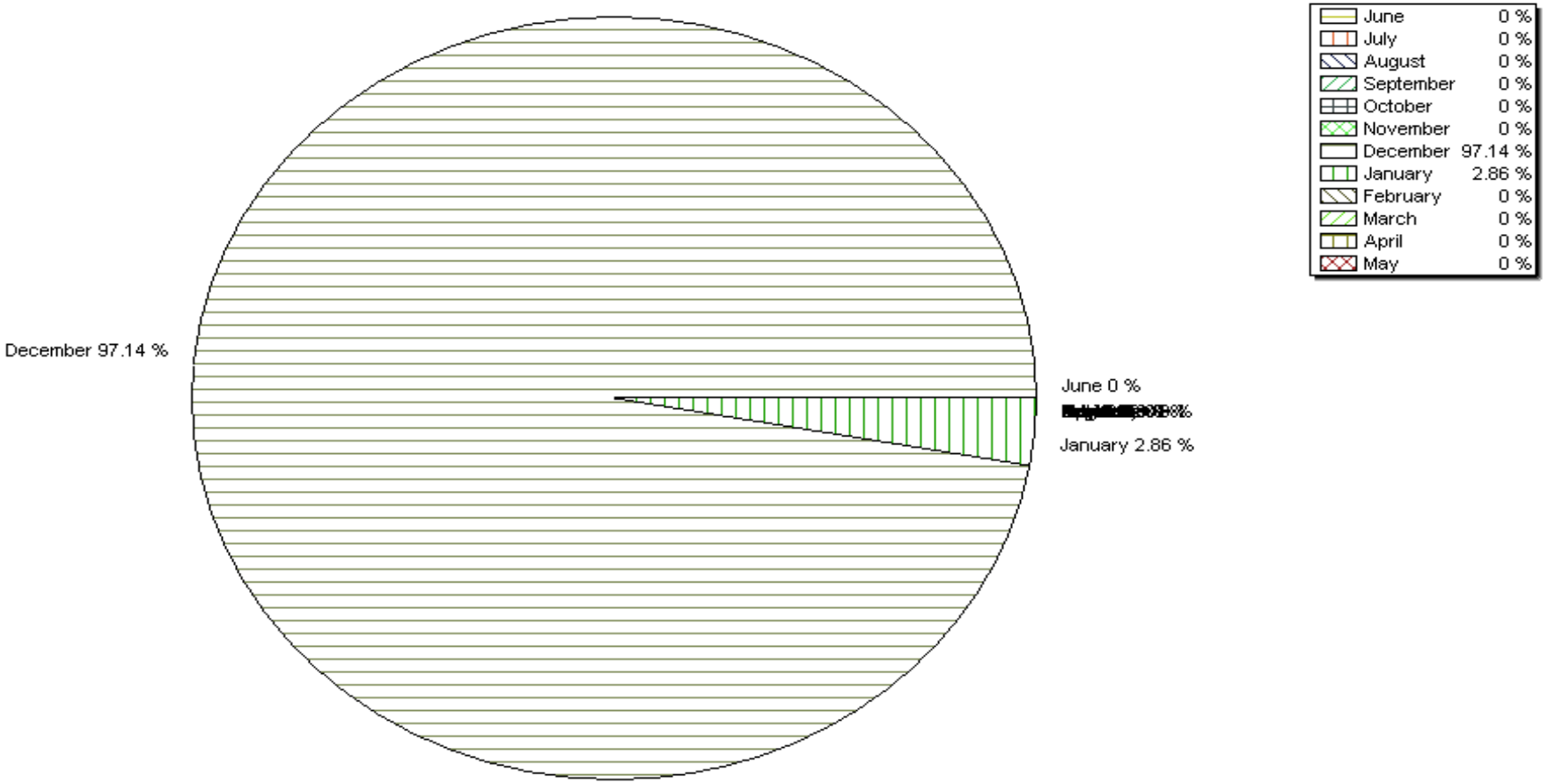
**Monthly Runoff for the Year : 2015-2016**

**Station Name : IRRUKKANKUDI ( CY000K7)**

**Local River : Vaippar**

**Division : SR Division, Coimbatore**

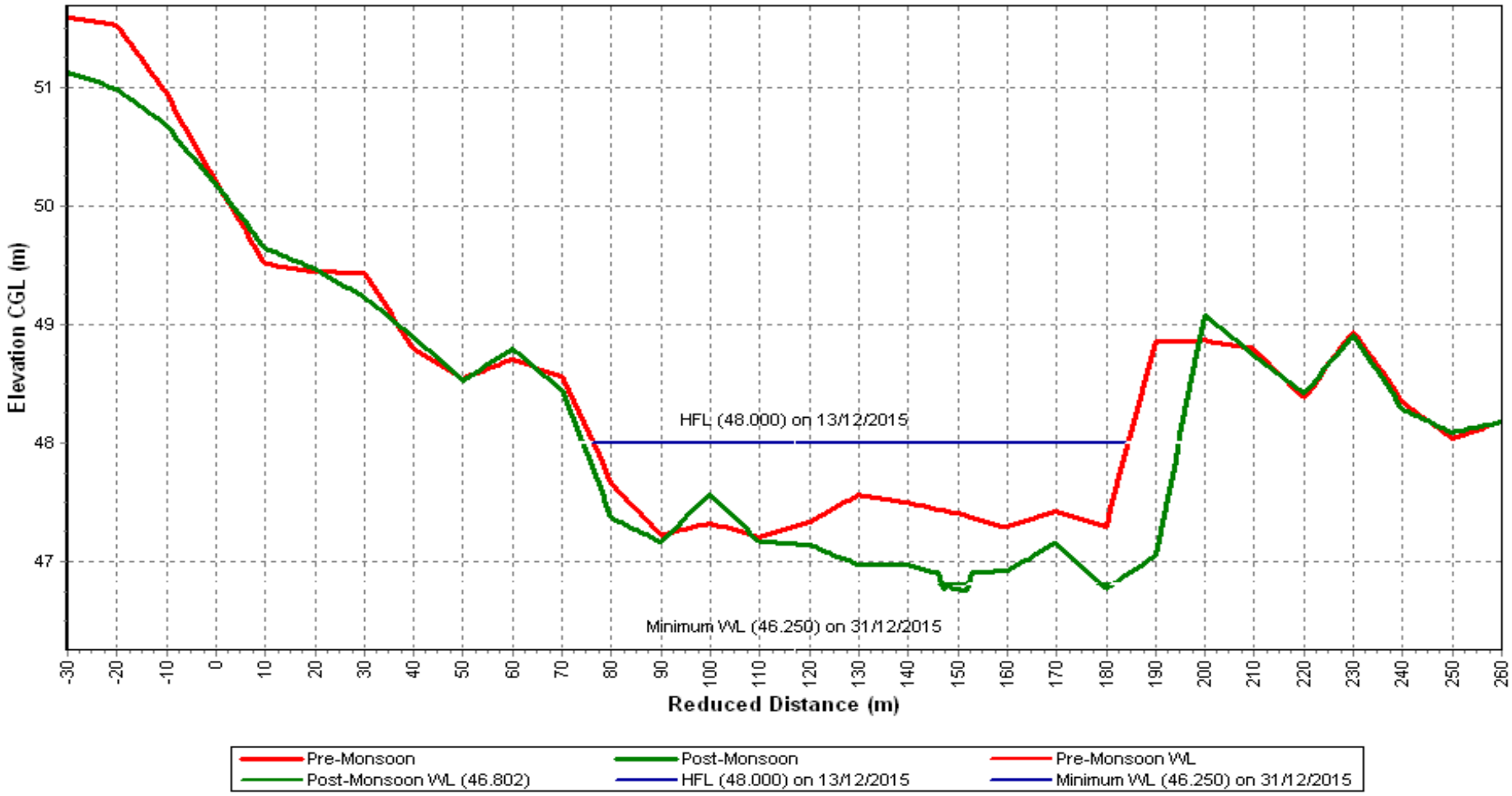
**Sub-Division : Vaigai SD Madurai**



**Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2015-2016**

**Station Name : IRRUKKANKUDI ( CY000K7)** **Division : SR Division, Coimbatore**

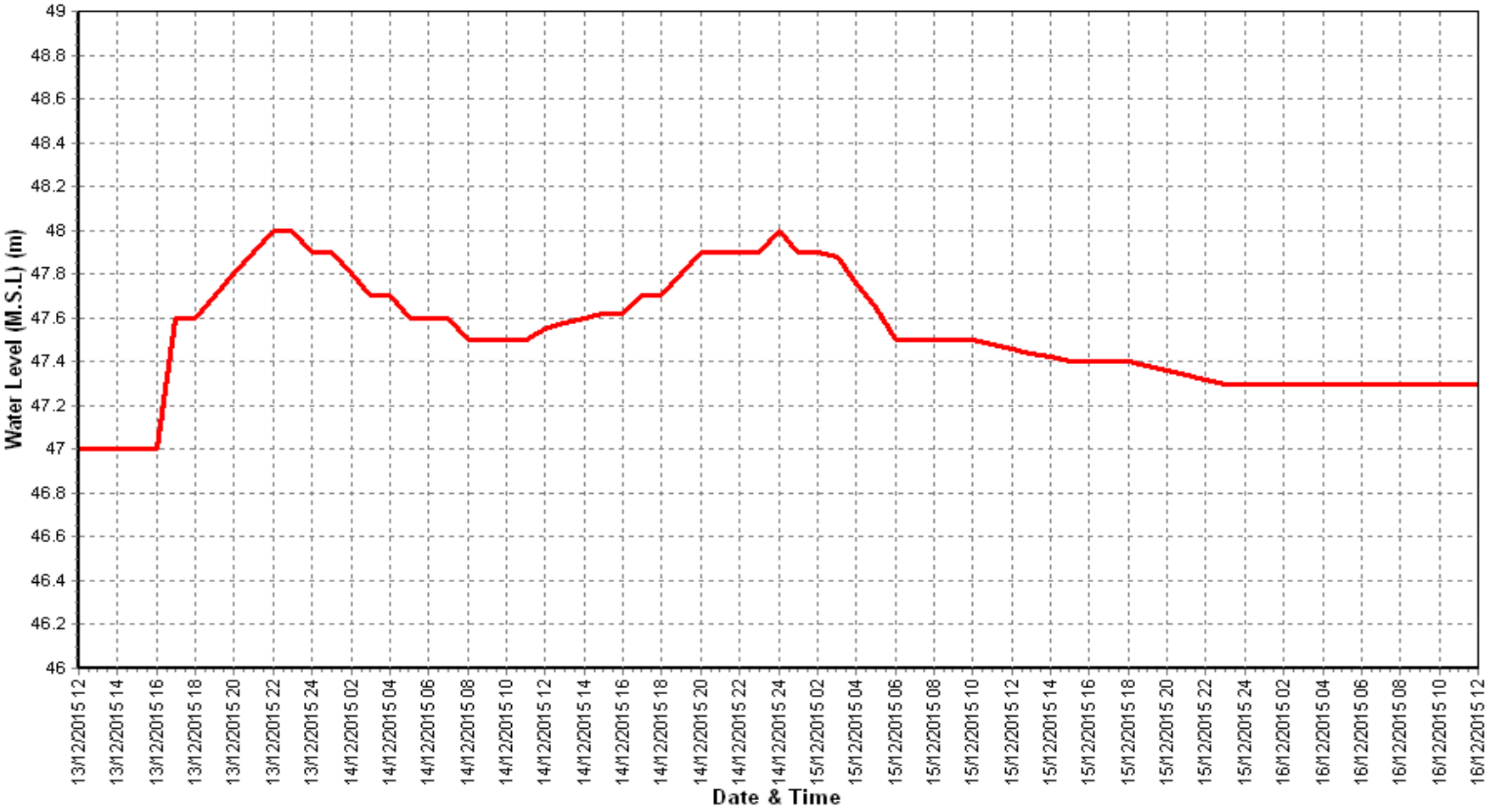
**Local River : Vaippar** **Sub-Division : Vaigai SD Madurai**



**Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2015-2016**

**Station Name : IRRUKKANKUDI ( CY000K7)** **Division : SR Division, Coimbatore**

**Local River : Vaippar** **Sub-Division : Vaigai SD Madurai**



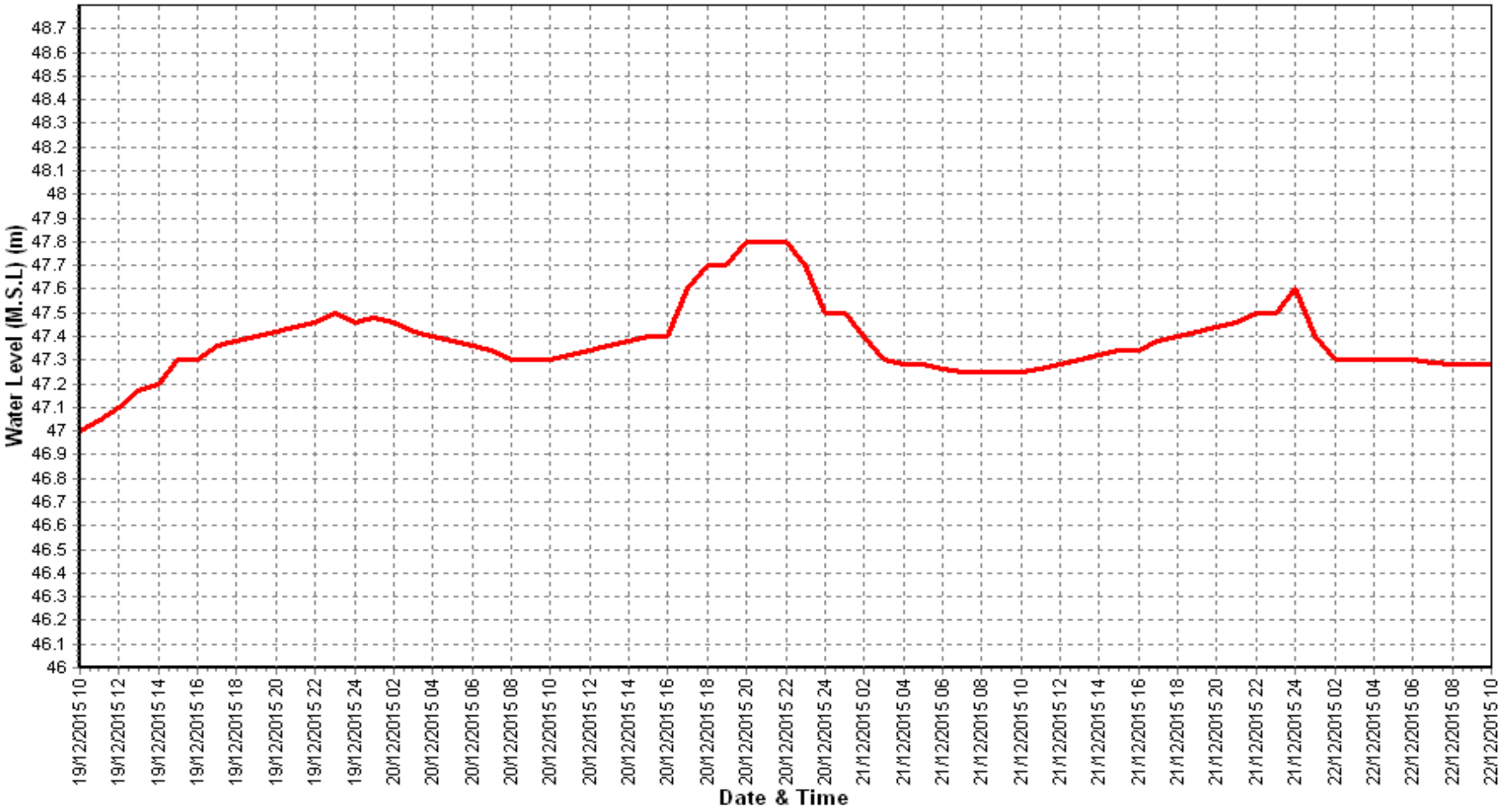



Time Span: 72 Hrs

**Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2015-2016**

**Station Name : IRRUKKANKUDI ( CY000K7)** **Division : SR Division, Coimbatore**

**Local River : Vaippar** **Sub-Division : Vaigai SD Madurai**

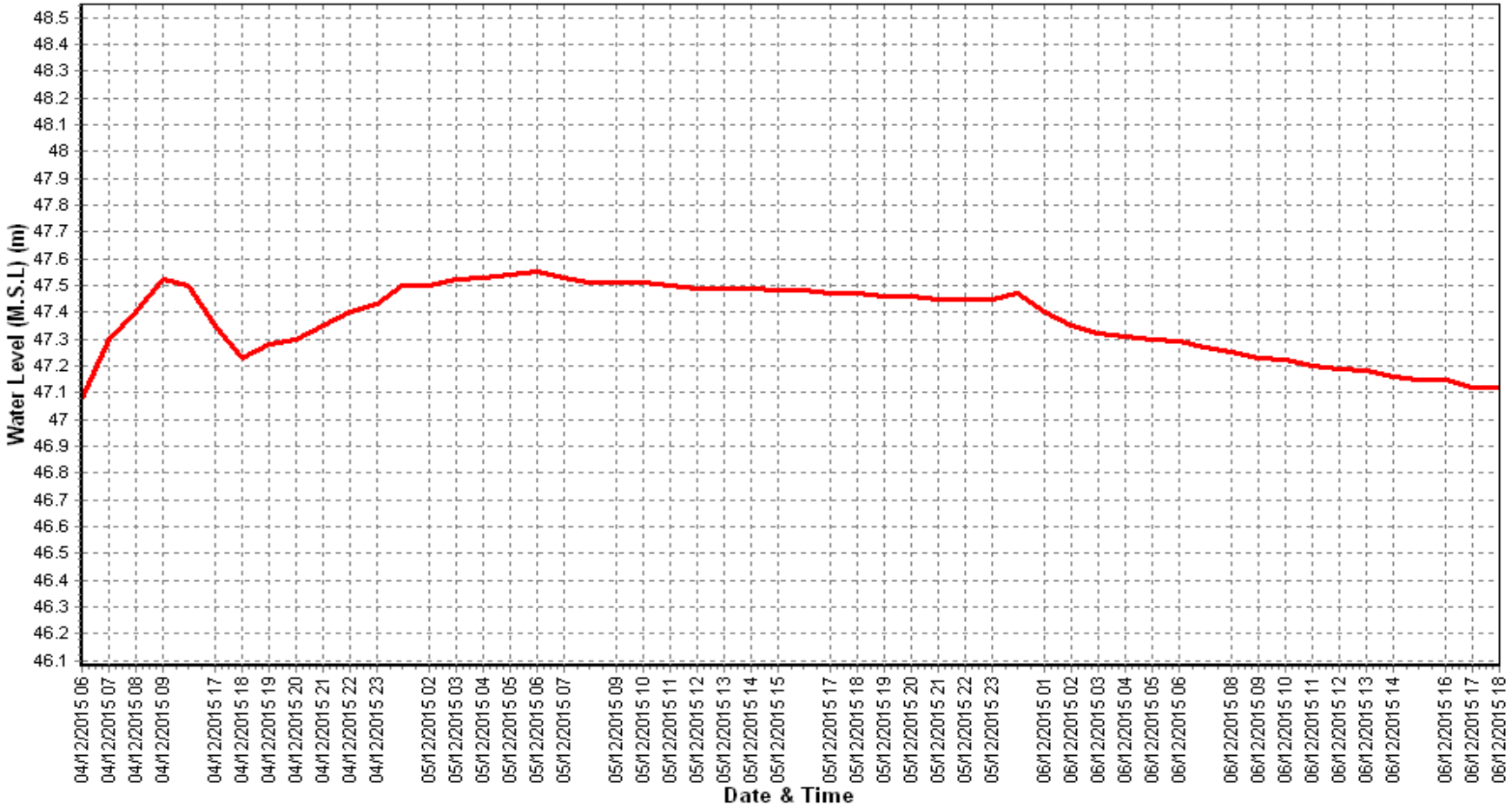



Time Span: 72 Hrs

**Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2015-2016**

**Station Name : IRRUKKANKUDI ( CY000K7)** **Division : SR Division, Coimbatore**

**Local River : Vaippar** **Sub-Division : Vaigai SD Madurai**




Time Span: 72 Hrs

## HISTORY SHEET

**Water Year : 2015-2016**

| | | | | | |
|---|---|---|---|---|---|
| **Site** | : | **MURAPPANADU** | **Code** | : | **CT000H9** |
| State | : | Tamil Nadu | District | | Tuticorin |
| Basin | : | EFR South of Cauvery | Independent River | : | Tambraparani |
| Tributary | : | - | Sub Tributary | : | - |
| Sub-Sub Tributary | : | - | Local River | : | Tambraparani |
| Division | : | SR Division, Coimbatore | Sub-Division | : | Vaigai SD Madurai |
| Drainage Area | : | 4380 Sq. Km. | Bank | : | Right |
| Latitude | : | 08°42'52" | Longitude | : | 77°50'06" |
| **Zero of Gauge (m)** | : | 14.000 (m.s.l)<br>14.025 (m.s.l) | 29/08/1977<br>01/06/1980 | - | 31/05/1980 |
| | | Opening Date | Closing Date | | |
| Gauge | : | 29/08/1977 | | | |
| Discharge | : | 23/11/1977 | | | |
| Sediment | : | 15/02/1979 | | | |
| Water Quality | : | 15/08/1978 | | | |

**Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)**

| | Maximum | | | Minimum | | |
|---|---|---|---|---|---|---|
| **Year** | **Q (cumecs)** | **WL (m)** | **Date** | **Q (cumecs)** | **WL (m)** | **Date** |
| 1978-1979 | 425.0 | 17.510 | 26/12/1978 | 0.580 | 14.945 | 24/09/1978 |
| 1979-1980 | 2405 | 21.075 | 12/11/1979 | 0.500 | 14.965 | 21/10/1979 |
| 1980-1981 | 565.7 | 17.945 | 19/12/1980 | 0.300 | 14.885 | 21/06/1980 |
| 1981-1982 | 273.7 | 17.070 | 20/12/1981 | 0.800 | 15.025 | 21/05/1982 |
| 1982-1983 | 264.6 | 17.145 | 27/11/1982 | 0.000 | 14.885 | 11/04/1983 |
| 1983-1984 | 2249 | 20.415 | 04/03/1984 | 0.000 | 14.890 | 01/06/1983 |
| 1984-1985 | 102.8 | 16.345 | 05/01/1985 | 0.200 | 15.025 | 22/04/1985 |
| 1985-1986 | 182.4 | 16.785 | 13/11/1985 | 1.100 | 15.115 | 02/04/1986 |
| 1986-1987 | 81.10 | 16.208 | 29/10/1986 | 0.000 | 14.985 | 16/04/1987 |
| 1987-1988 | 221.0 | 17.035 | 08/12/1987 | 0.000 | 14.975 | 06/06/1987 |
| 1988-1989 | 151.0 | 17.013 | 09/11/1988 | 0.000 | 14.945 | 28/05/1989 |
| 1989-1990 | 493.8 | 18.160 | 08/01/1990 | 0.011 | 14.920 | 13/06/1989 |
| 1990-1991 | 217.9 | 17.095 | 28/11/1990 | 0.526 | 14.950 | 10/10/1990 |
| 1991-1992 | 179.3 | 17.040 | 09/07/1991 | 0.482 | 14.935 | 18/05/1992 |
| 1992-1993 | 2154 | 21.350 | 14/11/1992 | 1.562 | 14.940 | 31/12/1992 |
| 1993-1994 | 1396 | 19.937 | 23/12/1993 | 0.990 | 14.923 | 28/09/1993 |
| 1994-1995 | 483.4 | 17.780 | 13/11/1994 | 0.851 | 14.940 | 06/06/1994 |
| 1995-1996 | 135.3 | 16.408 | 30/11/1995 | 0.000 | 14.755 | 04/04/1996 |

Q : Observed / Computed Discharge
WL : Corresponding Water Level(m.s.l)

**Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)**

| | Maximum | | | Minimum | | |
|---|---|---|---|---|---|---|
| **Year** | **Q (cumecs)** | **WL (m)** | **Date** | **Q (cumecs)** | **WL (m)** | **Date** |
| 1996-1997 | 144.7 | 16.495 | 15/12/1996 | 0.000 | 14.815 | 02/06/1996 |
| 1997-1998 | 509.5 | 18.045 | 21/12/1997 | 0.000 | 14.950 | 15/06/1997 |
| 1998-1999 | 436.0 | 17.760 | 13/12/1998 | 0.581 | 14.815 | 11/05/1999 |
| 1999-2000 | 121.8 | 16.525 | 24/11/1999 | 1.019 | 14.845 | 07/06/1999 |
| 2000-2001 | 245.9 | 17.285 | 29/12/2000 | 0.000 | Dry Bed | 25/05/2001 |
| 2001-2002 | 226.0 | 17.130 | 03/02/2002 | 0.988 | 14.810 | 11/05/2002 |
| 2002-2003 | 228.1 | 17.007 | 20/11/2002 | 1.571 | 14.820 | 22/10/2002 |
| 2003-2004 | 145.1 | 16.570 | 30/11/2003 | 0.642 | 14.670 | 25/04/2004 |
| 2004-2005 | 1153 | 19.265 | 10/11/2004 | 0.913 | 14.685 | 31/03/2005 |
| 2005-2006 | 915.7 | 18.915 | 13/12/2005 | 3.382 | 14.725 | 06/04/2006 |
| 2006-2007 | 1321 | 20.225 | 23/11/2006 | 2.428 | 14.695 | 13/08/2006 |
| 2007-2008 | 631.8 | 18.530 | 22/03/2008 | 3.132 | 14.665 | 22/04/2008 |
| 2008-2009 | 486.8 | 18.190 | 20/12/2008 | 1.816 | 14.600 | 25/07/2008 |
| 2009-2010 | 271.3 | 18.385 | 10/11/2009 | 2.084 | 14.525 | 28/08/2009 |
| 2010-2011 | 147.8 | 17.225 | 04/12/2010 | 0.140 | 14.335 | 22/06/2010 |
| 2011-2012 | 380.2 | 18.565 | 27/11/2011 | 0.758 | 14.345 | 08/05/2012 |
| 2012-2013 | 27.09 | 15.335 | 01/01/2013 | 0.000 | Dry Bed | 11/06/2012 |
| 2013-2014 | 172.1 | 17.345 | 08/05/2014 | 0.955 | 14.415 | 31/05/2014 |
| 2014-2015 | 304.8 | 18.150 | 11/12/2014 | 0.560 | 14.325 | 24/06/2014 |

Q : Observed / Computed Discharge
WL : Corresponding Water Level(m.s.l)

## Stage-Discharge Data for the period 2015 - 2016

**Station Name : MURAPPANADU ( CT000H9)** **Division : SR Division, Coimbatore**

**Local River : Tambraparani** **Sub-Division : Vaigai SD Madurai**

| Day | Jun | | Jul | | Aug | | Sep | | Oct | | Nov | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | W.L | Q | W.L | Q | W.L | Q | W.L | Q | W.L | Q | W.L | Q |
| 1 | 15.275 | 7.907 | 15.425 | 11.58 | 15.445 | 22.51 | 14.875 | 1.846 | 15.325 | 16.87 | 15.205 | 11.44 * |
| 2 | 15.215 | 7.861 | 15.345 | 9.668 | 15.455 | 21.79 * | 14.905 | 2.086 | 15.285 | 14.01 * | 15.275 | 16.38 |
| 3 | 15.245 | 7.796 | 15.295 | 9.424 | 15.405 | 23.88 | 14.890 | 1.956 | 15.225 | 13.12 | 15.210 | 11.68 |
| 4 | 15.235 | 7.795 | 15.185 | 7.489 | 15.425 | 19.62 | 15.145 | 4.611 # | 15.175 | 10.54 * | 15.325 | 15.80 |
| 5 | 15.215 | 7.649 | 15.085 | 5.079 * | 15.495 | 23.91 | 15.095 | 4.289 | 15.145 | 9.379 | 15.285 | 15.97 |
| 6 | 15.210 | 7.137 | 15.125 | 6.999 | 15.435 | 22.14 | 15.275 | 6.179 * | 15.215 | 8.665 | 15.175 | 10.79 |
| 7 | 15.165 | 6.125 * | 14.945 | 2.782 | 15.415 | 20.85 | 15.565 | 10.79 | 15.265 | 14.18 | 15.325 | 15.68 |
| 8 | 14.925 | 3.748 | 14.995 | 3.141 | 15.625 | 11.20 # | 15.535 | 10.62 | 15.385 | 13.17 | 15.695 | 30.57 * |
| 9 | 15.145 | 7.220 | 14.960 | 2.737 | 15.635 | 11.35 * | 15.225 | 5.786 | 15.295 | 17.13 | 17.065 | 122.1 * |
| 10 | 15.085 | 6.455 | 14.975 | 3.727 | 15.635 | 11.35 # | 15.195 | 5.540 | 15.245 | 12.72 | 16.375 | 69.42 * |
| 11 | 15.165 | 6.264 | 15.065 | 3.853 | 15.835 | 15.64 | 15.185 | 6.162 | 15.355 | 16.45 * | 15.585 | 32.46 |
| 12 | 15.125 | 5.765 | 15.095 | 5.206 * | 15.685 | 12.86 | 15.225 | 6.697 | 15.275 | 13.36 | 15.335 | 16.46 |
| 13 | 15.175 | 7.014 | 15.305 | 8.495 | 15.685 | 12.72 | 15.225 | 5.556 * | 15.165 | 11.84 | 15.245 | 12.91 |
| 14 | 15.185 | 6.398 * | 15.275 | 7.955 | 15.665 | 12.35 | 15.145 | 5.240 | 15.095 | 6.677 | 16.305 | 64.81 # |
| 15 | 15.235 | 7.586 | 15.345 | 9.298 | 15.655 | 11.68 * | 15.095 | 7.368 | 15.055 | 7.807 | 16.695 | 92.25 * |
| 16 | 15.315 | 8.363 | 15.485 | 10.98 # | 15.625 | 11.20 * | 15.095 | 8.280 # | 14.985 | 6.652 | 15.850 | 41.82 |
| 17 | 15.505 | 9.659 | 15.605 | 15.84 | 15.645 | 8.657 | 15.225 | 12.06 * | 15.235 | 8.967 | 15.565 | 28.67 |
| 18 | 15.545 | 10.08 | 15.475 | 10.82 * | 15.655 | 12.57 | 15.195 | 11.26 | 15.145 | 9.663 * | 15.215 | 12.49 |
| 19 | 15.325 | 8.352 | 15.435 | 10.16 * | 15.625 | 8.370 | 15.175 | 9.752 | 14.985 | 5.569 # | 15.895 | 46.45 |
| 20 | 15.485 | 9.610 | 15.625 | 14.68 | 15.215 | 5.434 # | 15.145 | 9.663 * | 15.165 | 9.185 | 17.660 | 149.3 |
| 21 | 15.235 | 7.099 * | 15.605 | 14.88 | 15.195 | 5.194 # | 15.185 | 11.19 | 15.165 | 10.24 * | 16.675 | 79.73 |
| 22 | 15.475 | 8.405 | 15.805 | 17.33 | 15.425 | 10.21 | 15.125 | 9.235 | 15.135 | 9.379 * | 16.875 | 106.3 * |
| 23 | 15.555 | 10.52 | 15.345 | 8.731 # | 15.415 | 8.053 * | 15.065 | 6.064 | 15.025 | 6.990 | 17.325 | 145.1 * |
| 24 | 15.605 | 10.67 | 15.575 | 12.53 # | 15.365 | 8.659 | 15.095 | 8.280 * | 15.020 | 6.381 * | 18.455 | 224.5 |
| 25 | 15.535 | 10.28 | 15.415 | 19.41 | 15.145 | 4.611 # | 15.235 | 13.18 | 15.045 | 6.991 * | 17.955 | 208.0 * |
| 26 | 15.475 | 9.472 | 15.405 | 19.89 * | 15.025 | 3.650 | 15.205 | 11.59 | 15.095 | 7.188 | 17.205 | 132.0 |
| 27 | 15.455 | 8.972 | 15.365 | 18.75 | 14.985 | 3.329 | 15.175 | 10.54 * | 15.035 | 6.937 | 16.305 | 64.81 * |
| 28 | 15.545 | 12.00 * | 15.425 | 18.74 | 14.995 | 2.880 | 15.365 | 18.02 | 15.025 | 6.363 | 15.885 | 45.81 |
| 29 | 15.625 | 14.04 | 15.395 | 17.88 | 15.005 | 3.027 | 15.505 | 26.07 | 15.165 | 9.506 | 15.615 | 26.91 * |
| 30 | 15.465 | 9.224 | 15.425 | 20.25 | 14.985 | 2.926 * | 15.375 | 17.38 | 15.125 | 8.837 | 15.950 | 52.24 |
| 31 | | | 15.445 | 20.20 | 14.945 | 2.036 | | | 15.205 | 12.04 | | |
| Ten-Daily Mean | | | | | | | | | | | | |
| I Ten-Daily | 15.172 | 6.969 | 15.134 | 6.263 | 15.497 | 18.86 | 15.171 | 5.370 | 15.256 | 12.98 | 15.594 | 31.98 |
| II Ten-Daily | 15.306 | 7.909 | 15.371 | 9.729 | 15.629 | 11.15 | 15.171 | 8.204 | 15.146 | 9.617 | 15.935 | 49.76 |
| III Ten-Daily | 15.497 | 10.07 | 15.473 | 17.14 | 15.135 | 4.961 | 15.233 | 13.16 | 15.095 | 8.259 | 16.825 | 108.5 |
| Monthly | | | | | | | | | | | | |
| Min. | 14.925 | 3.748 | 14.945 | 2.737 | 14.945 | 2.036 | 14.875 | 1.846 | 14.985 | 5.569 | 15.175 | 10.79 |
| Max. | 15.625 | 14.04 | 15.805 | 20.25 | 15.835 | 23.91 | 15.565 | 26.07 | 15.385 | 17.13 | 18.455 | 224.5 |
| Mean | 15.325 | 8.316 | 15.331 | 11.24 | 15.411 | 11.44 | 15.192 | 8.91 | 15.163 | 10.22 | 16.118 | 63.43 |

**Annual Runoff in MCM = 1015 Annual Runoff in mm = 232**

**Peak Observed Discharge = 224.5 cumecs on 24/11/2015 Corres. Water Level :18.455 m**

**Lowest Observed Discharge = 1.846 cumecs on 01/09/2015 Corres. Water Level :14.875 m**

Q: Observed/Computed Discharge in cumecs

WL:Corresponding Mean Water Level(m.s.l) in m

*:Computed Discharge

#:Discarded Discharge (values changed as per rating curve)

*Note:Missing values ignored while arriving at Annual Runoff*

## Stage-Discharge Data for the period 2015 - 2016

**Station Name : MURAPPANADU ( CT000H9)** **Division : SR Division, Coimbatore**

**Local River : Tambraparani** **Sub-Division : Vaigai SD Madurai**

| Day | Dec | | Jan | | Feb | | Mar | | Apr | | May | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | W.L | Q | WL | Q | WL | Q | WL | Q | WL | Q | WL | Q |
| 1 | 18.065 | 197.4 | 16.225 | 73.64 * | 15.205 | 14.57 | 15.225 | 15.67 | 15.125 | 12.28 | 15.125 | 10.46 * |
| 2 | 17.565 | 208.0 * | 15.725 | 39.02 * | 15.265 | 15.97 | 15.405 | 22.32 | 15.165 | 13.20 | 15.105 | 11.74 |
| 3 | 17.205 | 130.1 | 15.785 | 42.68 * | 15.365 | 22.28 | 15.485 | 26.94 | 15.135 | 10.81 * | 15.185 | 14.16 |
| 4 | 17.905 | 250.9 * | 16.005 | 57.28 * | 15.305 | 18.63 | 15.525 | 28.34 | 15.035 | 6.312 | 15.145 | 12.65 |
| 5 | 17.285 | 175.3 * | 15.685 | 36.66 * | 15.405 | 23.00 | 15.545 | 28.45 | 15.085 | 8.508 | 15.125 | 11.81 |
| 6 | 17.325 | 179.8 * | 15.665 | 35.50 * | 15.425 | 24.15 | 15.525 | 27.83 * | 15.015 | 6.972 # | 15.125 | 12.17 |
| 7 | 18.525 | 337.7 * | 15.575 | 26.23 | 15.555 | 29.40 * | 15.605 | 31.11 | 15.085 | 8.721 | 15.195 | 14.61 |
| 8 | 18.495 | 333.2 * | 15.615 | 28.76 | 15.205 | 14.77 | 15.595 | 28.90 | 15.025 | 6.262 | 15.235 | 14.53 * |
| 9 | 19.105 | 428.4 * | 15.465 | 25.15 | 15.195 | 13.65 | 15.575 | 29.76 | 15.065 | 8.439 | 15.245 | 17.16 |
| 10 | 18.085 | 275.0 * | 15.285 | 16.56 * | 15.125 | 10.50 | 15.515 | 26.10 | 15.055 | 8.172 * | 15.215 | 15.57 |
| 11 | 18.335 | 309.9 * | 15.235 | 16.37 | 15.085 | 9.782 | 15.465 | 23.42 | 15.025 | 6.153 | 15.295 | 17.93 |
| 12 | 18.655 | 357.2 * | 15.215 | 15.71 | 15.065 | 9.817 | 15.460 | 22.74 | 15.030 | 6.324 | 15.375 | 20.17 |
| 13 | 18.135 | 281.8 * | 15.235 | 16.21 | 15.095 | 10.25 | 15.425 | 22.84 * | 15.015 | 4.970 | 15.355 | 20.24 |
| 14 | 17.625 | 215.4 * | 15.275 | 18.16 | 15.185 | 12.61 * | 15.405 | 20.30 | 15.035 | 7.562 * | 15.350 | 20.01 |
| 15 | 16.985 | 142.8 * | 15.365 | 20.05 * | 15.205 | 15.52 | 15.505 | 24.91 | 15.035 | 6.689 | 15.345 | 19.15 * |
| 16 | 16.545 | 100.4 * | 15.425 | 22.86 | 15.155 | 11.85 | 15.385 | 19.70 | 15.015 | 5.926 | 15.315 | 17.84 * |
| 17 | 16.915 | 135.7 * | 15.355 | 19.60 * | 15.125 | 10.65 | 15.375 | 19.45 | 14.995 | 6.401 * | 15.225 | 15.23 |
| 18 | 16.715 | 116.1 * | 15.285 | 17.21 | 15.120 | 10.34 | 15.265 | 17.29 | 14.925 | 4.572 | 15.185 | 14.08 |
| 19 | 17.405 | 189.0 * | 15.255 | 17.06 | 15.175 | 13.07 | 15.225 | 15.18 | 14.985 | 5.139 | 15.105 | 11.61 |
| 20 | 18.315 | 307.1 * | 15.235 | 14.53 | 15.165 | 12.54 | 15.175 | 12.24 * | 15.965 | 54.49 * | 15.075 | 9.121 |
| 21 | 17.925 | 253.6 * | 15.215 | 13.43 | 15.215 | 13.75 * | 15.165 | 13.24 | 14.955 | 4.544 | 15.035 | 7.562 * |
| 22 | 17.395 | 187.9 * | 15.205 | 13.12 | 15.205 | 15.40 | 15.145 | 12.63 | 14.865 | 2.757 | 15.015 | 6.972 * |
| 23 | 16.735 | 118.0 * | 15.225 | 13.78 | 15.215 | 15.87 | 15.155 | 12.37 | 14.915 | 4.528 | 15.005 | 5.720 |
| 24 | 16.325 | 81.64 * | 15.235 | 14.53 * | 15.210 | 14.89 | 15.165 | 13.04 | 14.965 | 5.585 * | 14.995 | 5.115 |
| 25 | 16.045 | 60.12 * | 15.215 | 13.23 | 15.195 | 13.65 | 15.145 | 11.16 * | 14.995 | 5.362 | 14.925 | 4.976 |
| 26 | 15.945 | 53.12 * | 15.205 | 13.37 * | 15.195 | 13.38 | 14.955 | 5.182 | 15.025 | 6.419 | 14.795 | 2.103 |
| 27 | 15.895 | 49.76 * | 15.195 | 12.39 | 15.200 | 14.21 | 14.925 | 4.571 * | 15.005 | 5.599 | 14.865 | 3.087 |
| 28 | 15.945 | 53.12 * | 15.285 | 17.51 | 15.205 | 13.37 * | 14.975 | 5.587 | 15.010 | 5.833 | 14.885 | 3.449 |
| 29 | 17.095 | 154.4 * | 15.215 | 13.60 | 15.215 | 16.17 | 15.015 | 5.918 | 15.035 | 6.785 | 14.875 | 3.425 * |
| 30 | 17.005 | 144.9 * | 15.225 | 14.19 | | | 15.010 | 5.831 | 15.075 | 8.554 | 14.925 | 4.962 |
| 31 | 17.265 | 173.0 * | 15.215 | 13.75 * | | | 15.025 | 6.181 | | | 14.975 | 5.242 |
| **Ten-Daily Mean** | | | | | | | | | | | | |
| I Ten-Daily | 17.956 | 251.6 | 15.703 | 38.15 | 15.305 | 18.69 | 15.500 | 26.54 | 15.079 | 8.967 | 15.170 | 13.49 |
| II Ten-Daily | 17.563 | 215.5 | 15.288 | 17.78 | 15.137 | 11.64 | 15.368 | 19.81 | 15.102 | 10.82 | 15.262 | 16.54 |
| III Ten-Daily | 16.689 | 120.9 | 15.221 | 13.90 | 15.206 | 14.52 | 15.062 | 8.700 | 14.984 | 5.597 | 14.936 | 4.783 |
| **Monthly** | | | | | | | | | | | | |
| Min. | 15.895 | 49.76 | 15.195 | 12.39 | 15.065 | 9.782 | 14.925 | 4.571 | 14.865 | 2.757 | 14.795 | 2.103 |
| Max. | 19.105 | 428.4 | 16.225 | 73.64 | 15.555 | 29.40 | 15.605 | 31.11 | 15.965 | 54.49 | 15.375 | 20.24 |
| Mean | 17.380 | 193.6 | 15.398 | 22.97 | 15.217 | 14.97 | 15.302 | 18.04 | 15.055 | 8.462 | 15.117 | 11.38 |

**Peak Computed Discharge = 428.4 cumecs on 09/12/2015 Corres. Water Level :19.105 m**

**Lowest Computed Discharge = 2.926 cumecs on 30/08/2015 Corres. Water Level :14.985 m**

Q: Observed/Computed Discharge in cumecs

WL:Corresponding Mean Water Level(m.s.l) in m

*:Computed Discharge

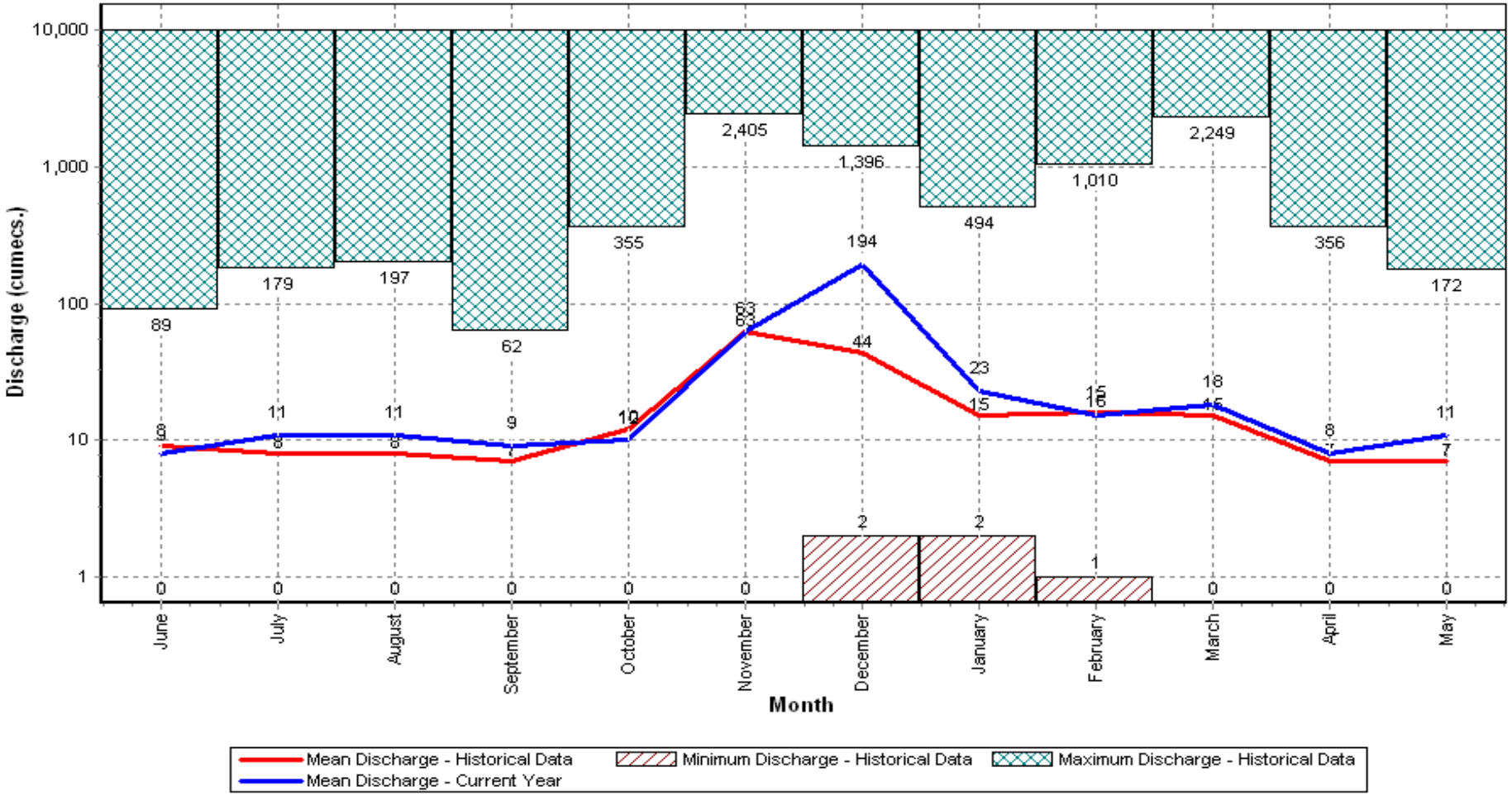
#:Discarded Discharge (values changed as per rating curve)

*Note:Missing values ignored while arriving at Annual Runoff*

**HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016**

**Station Name : MURAPPANADU ( CT000H9)** | **Data considered : 1978-2016** | **Division : SR Division, Coimbatore**

**Local River : Tambraparani** | **Sub-Division : Vaigai SD Madurai**



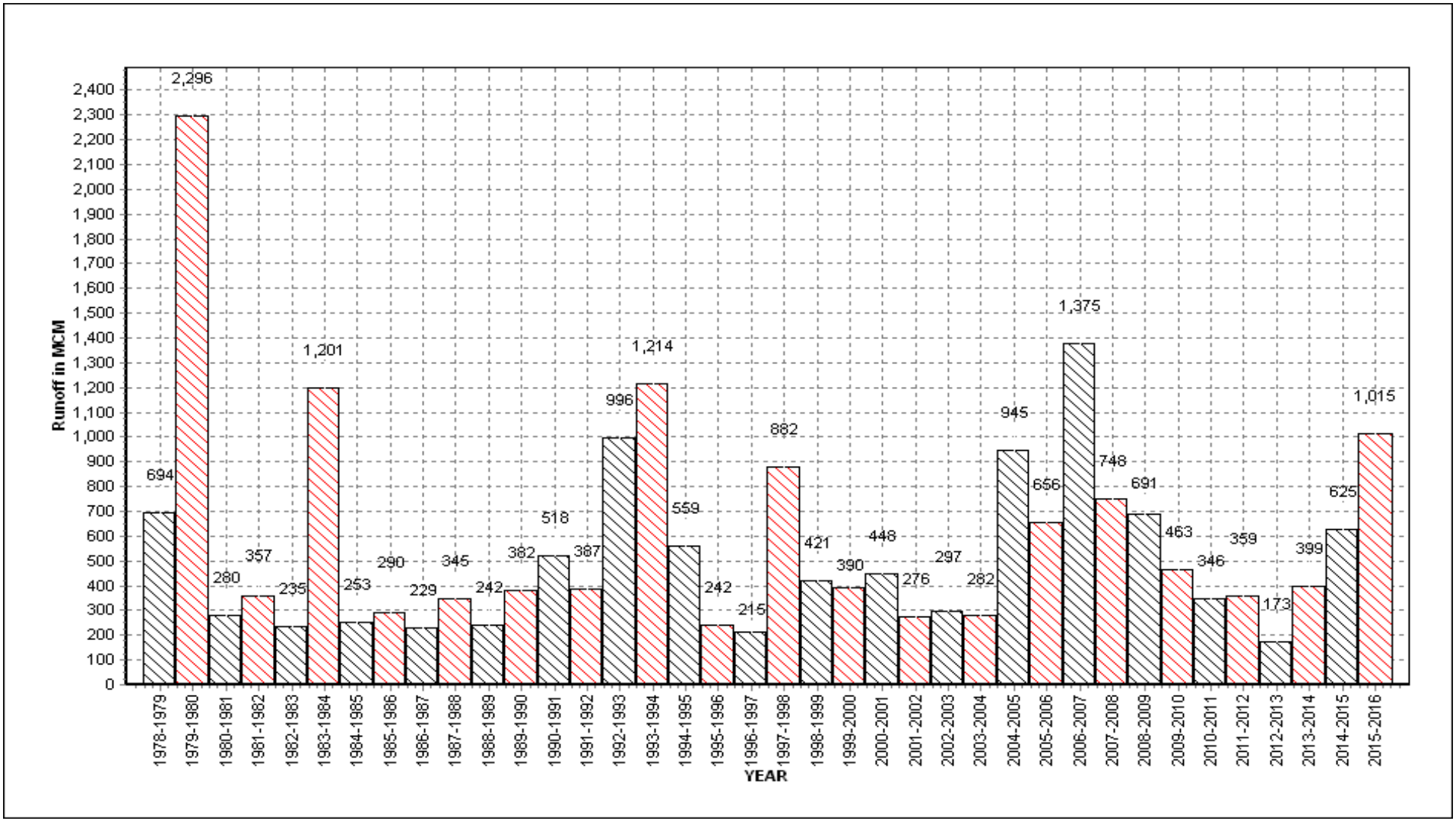
**Annual Runoff Values for the period: 1978 - 2016**

**Station Name : MURAPPANADU ( CT000H9)**

**Division : SR Division, Coimbatore**

**Local River : Tambraparani**

**Sub-Division : Vaigai SD Madurai**




*Note: Missing values have not been considered while arriving at Annual Runoff*

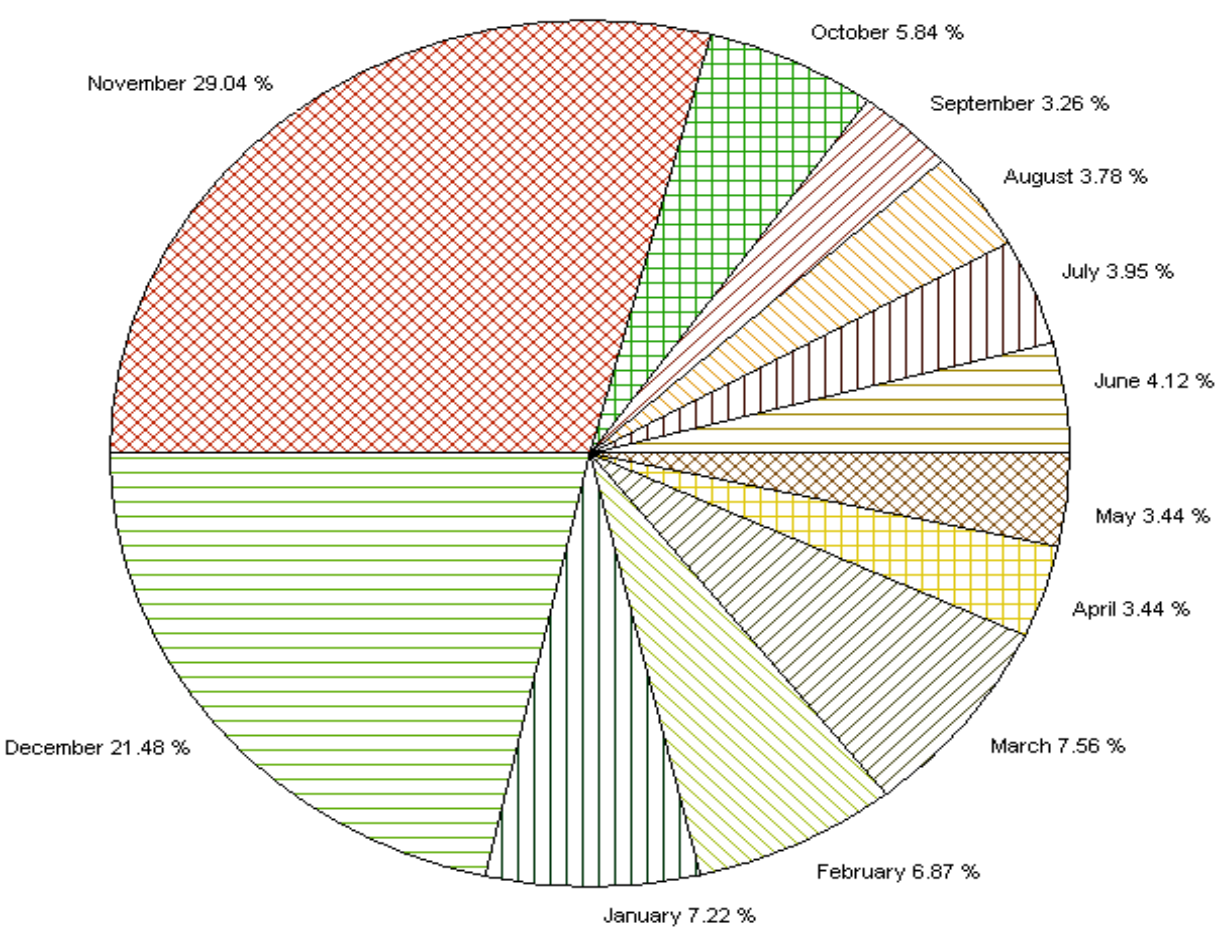
**Monthly Average Runoff based on period : 1978-2015**

**Station Name : MURAPPANADU ( CT000H9)**

**Local River : Tambraparani**

**Division : SR Division, Coimbatore**

**Sub-Division : Vaigai SD Madurai**




| | |
|---|---|
| June | 4.12 % |
| July | 3.95 % |
| August | 3.78 % |
| September | 3.26 % |
| October | 5.84 % |
| November | 29.04 % |
| December | 21.48 % |
| January | 7.22 % |
| February | 6.87 % |
| March | 7.56 % |
| April | 3.44 % |
| May | 3.44 % |

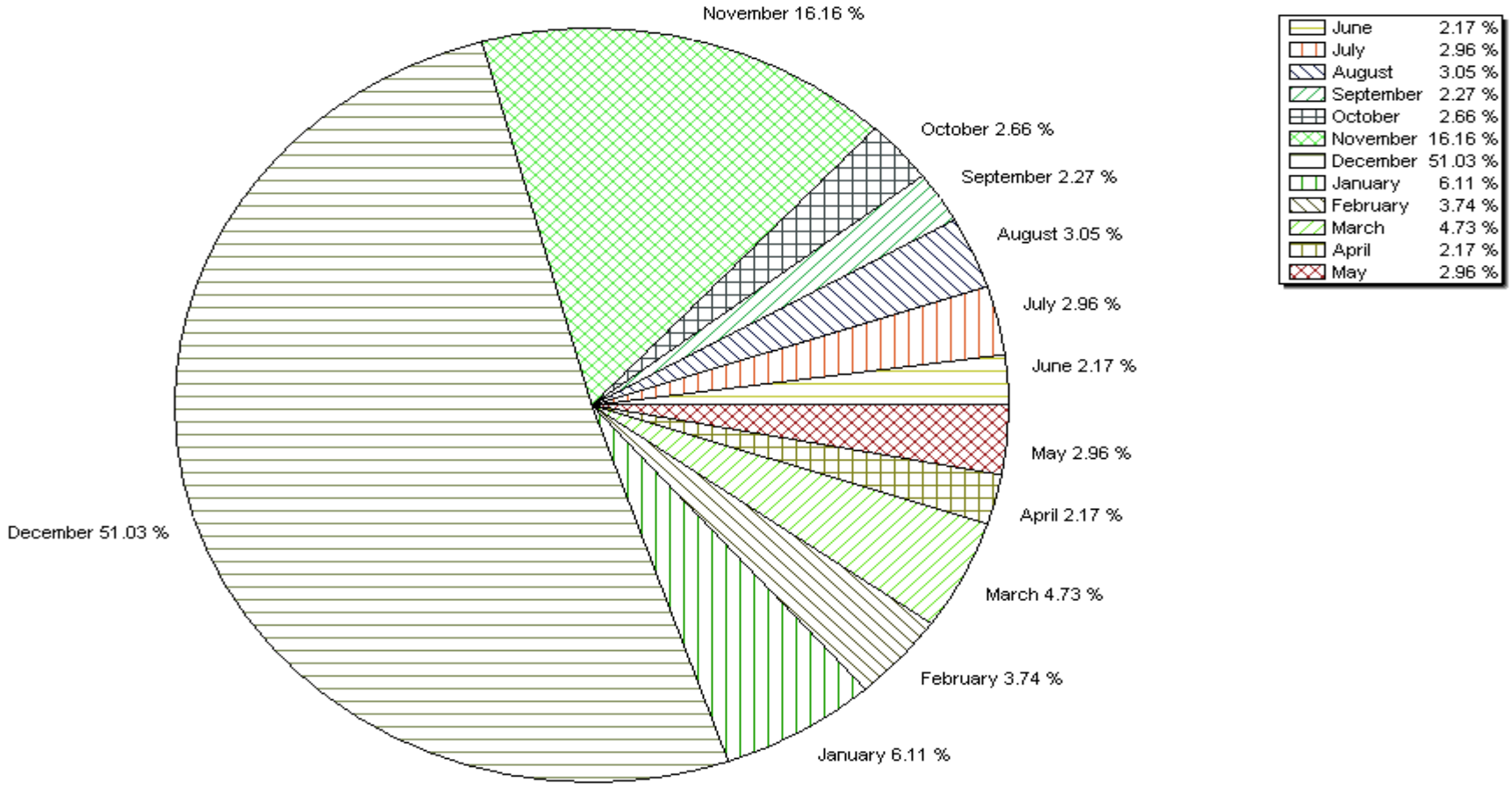
**Monthly Runoff for the Year : 2015-2016**

**Station Name : MURAPPANADU ( CT000H9)**

**Local River : Tambraparani**

**Division : SR Division, Coimbatore**

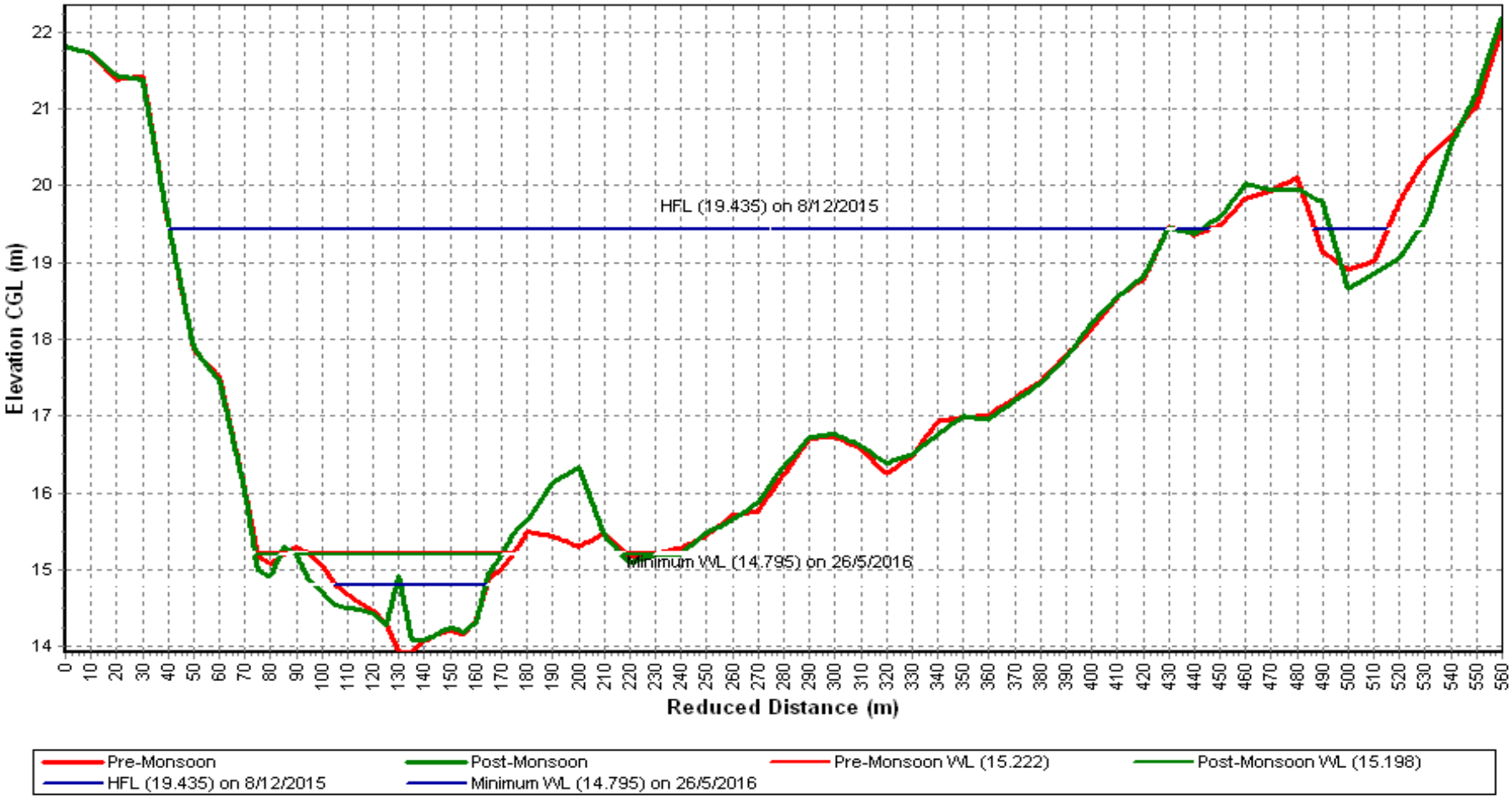
**Sub-Division : Vaigai SD Madurai**



**Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2015-2016**

**Station Name : MURAPPANADU ( CT000H9)** **Division : SR Division, Coimbatore**

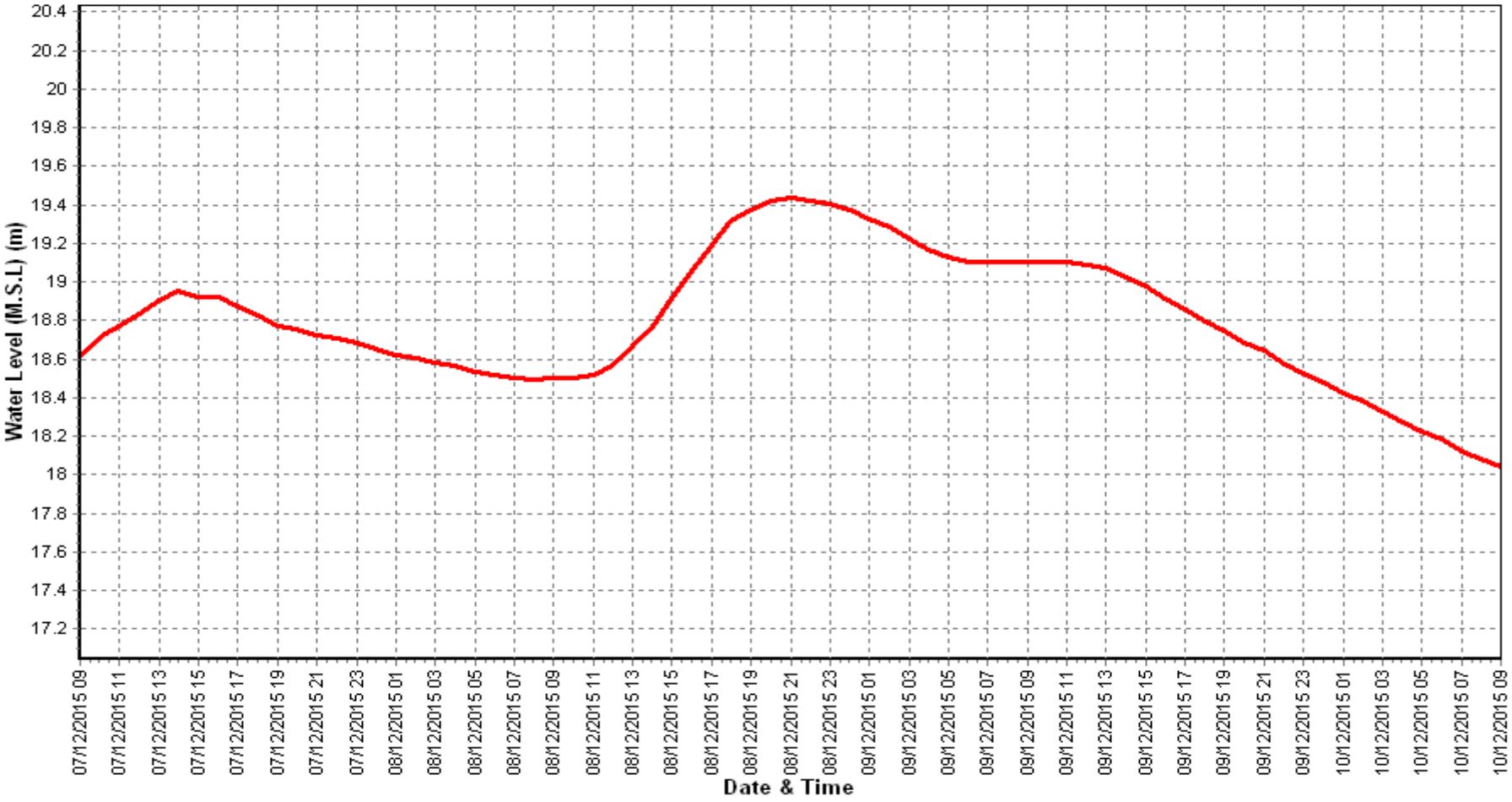
**Local River : Tambraparani** **Sub-Division : Vaigai SD Madurai**



**Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2015-2016**

**Station Name : MURAPPANADU ( CT000H9)** **Division : SR Division, Coimbatore**

**Local River : Tambraparani** **Sub-Division : Vaigai SD Madurai**

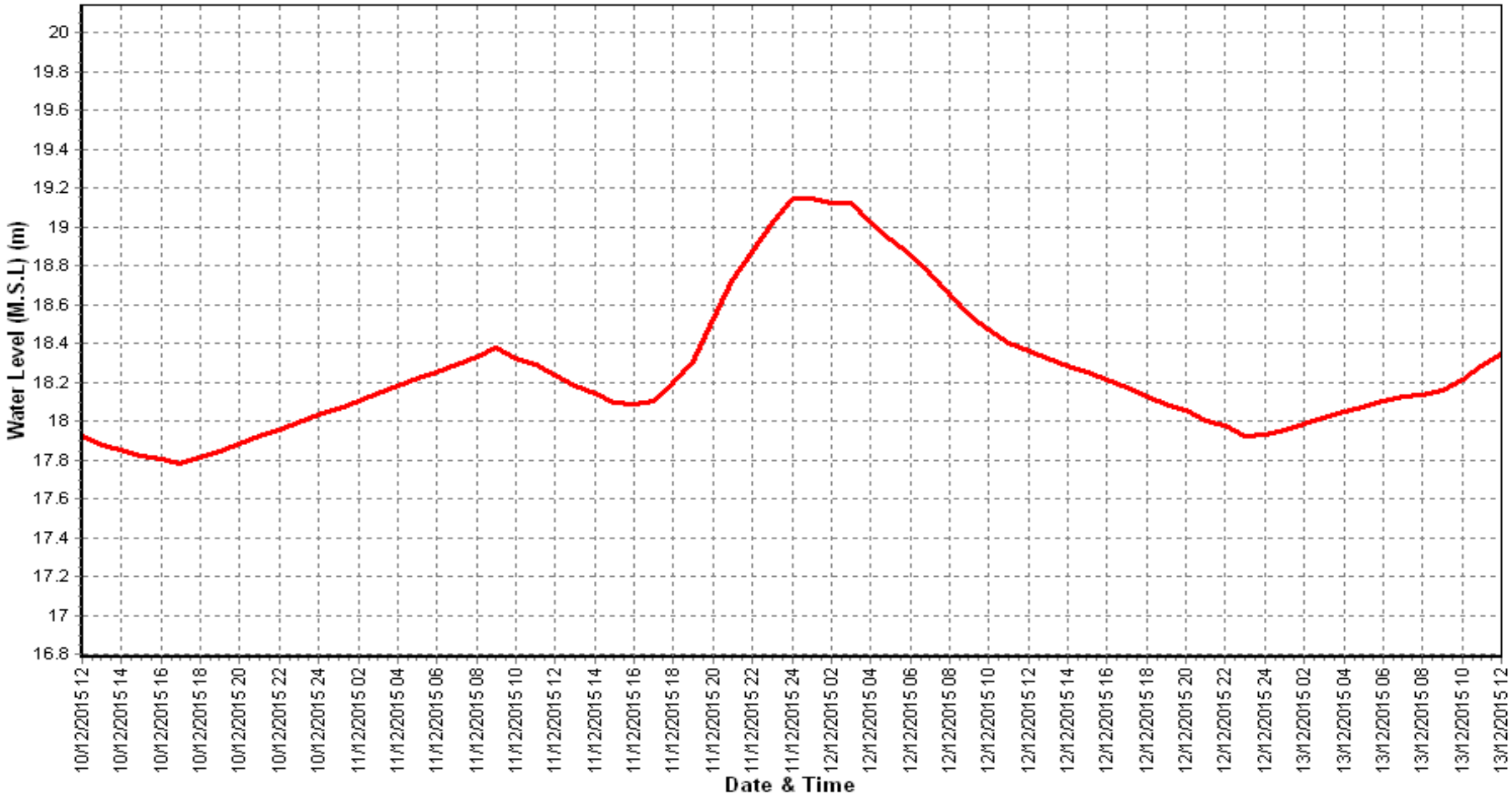



Time Span: 72 Hrs

**Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2015-2016**

**Station Name : MURAPPANADU ( CT000H9)** **Division : SR Division, Coimbatore**

**Local River : Tambraparani** **Sub-Division : Vaigai SD Madurai**

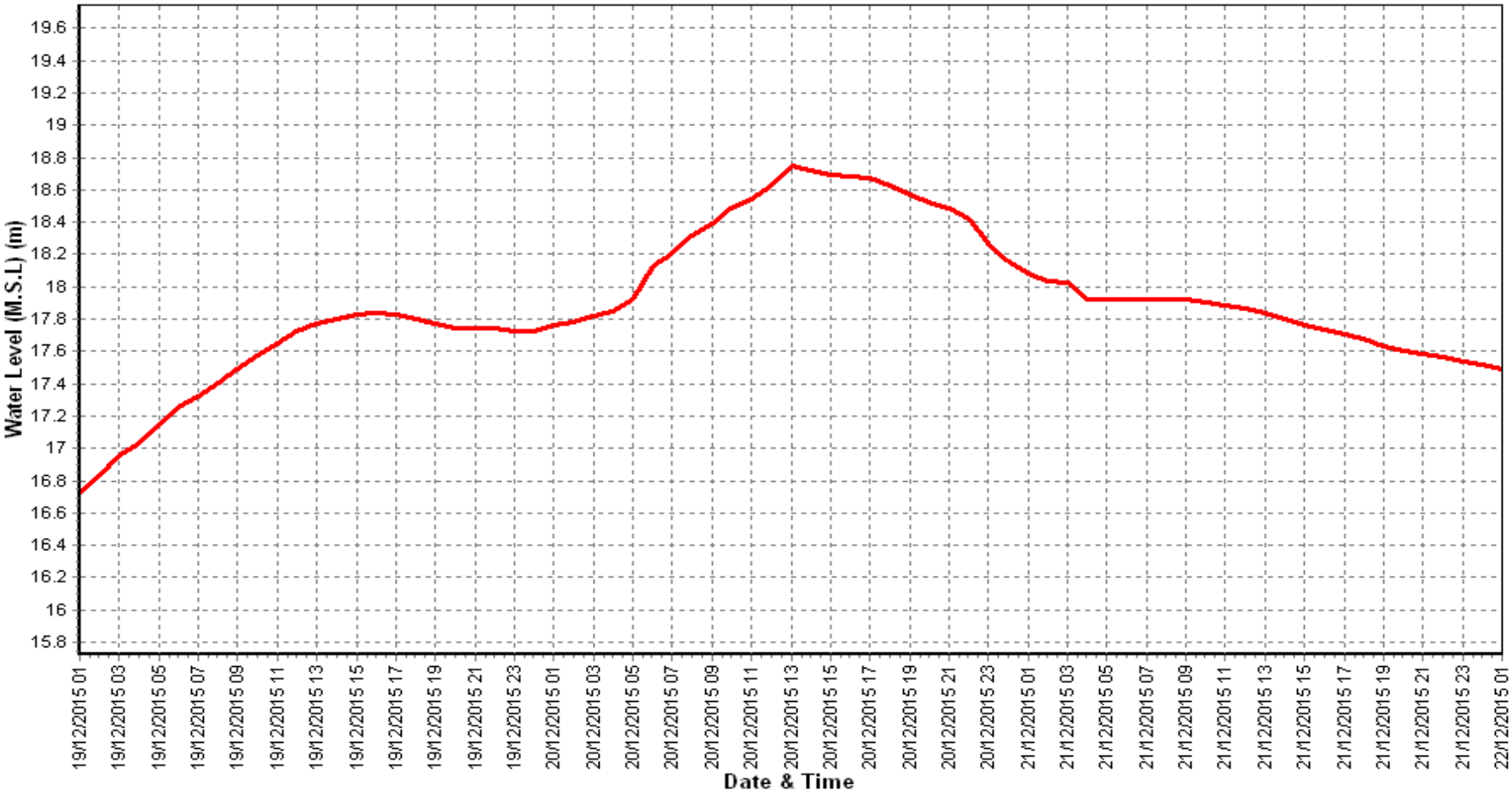



Time Span: 72 Hrs

**Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2015-2016**

**Station Name : MURAPPANADU ( CT000H9)** **Division : SR Division, Coimbatore**

**Local River : Tambraparani** **Sub-Division : Vaigai SD Madurai**




Time Span: 72 Hrs

## HISTORY SHEET

**Water Year : 2015-2016**

| | | | | | |
|---|---|---|---|---|---|
| **Site** | **: A.P.PURAM** | | **Code** | **: CTA00J1** | |
| State | : Tamil Nadu | | District | Tirunelveli | |
| Basin | : EFR South of Cauvery | | Independent River | : Tambraparani | |
| Tributary | : Chittar | | Sub Tributary | : - | |
| Sub-Sub Tributary | : - | | Local River | : Chittar | |
| Division | : SR Division, Coimbatore | | Sub-Division | : Vaigai SD Madurai | |
| Drainage Area | : 1095 Sq. Km. | | Bank | : Right | |
| Latitude | : 08°54'05" | | Longitude | : 77°38'55" | |
| **Zero of Gauge (m)** | : 63.000 (m.s.l)<br>61.000 (m.s.l) | | 11/06/1978<br>01/06/1980 | - 31/05/1980 | |
| | Opening Date | | Closing Date | | |
| Gauge | : 11/06/1978 | | | | |
| Discharge | : 01/12/1979 | | | | |
| Sediment | : | | | | |
| Water Quality | : 01/06/1993 | | | | |

**Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)**

| | Maximum | | | Minimum | | |
|---|---|---|---|---|---|---|
| **Year** | **Q (cumecs)** | **WL (m)** | **Date** | **Q (cumecs)** | **WL (m)** | **Date** |
| 1980-1981 | 30.80 | 64.475 | 18/11/1980 | 0.000 | 62.830 | 01/06/1980 |
| 1981-1982 | 14.90 | 64.220 | 24/09/1981 | 0.000 | 63.095 | 01/06/1981 |
| 1982-1983 | 3.800 | 63.880 | 05/12/1982 | 0.000 | 63.130 | 01/06/1982 |
| 1983-1984 | 228.3 | 67.215 | 04/03/1984 | 0.000 | 63.070 | 01/06/1983 |
| 1984-1985 | 1.700 | 63.935 | 05/01/1985 | 0.000 | 63.872 | 01/06/1984 |
| 1985-1986 | 0.100 | 63.875 | 27/10/1985 | 0.000 | 63.805 | 01/06/1985 |
| 1986-1987 | 0.200 | 63.865 | 28/10/1986 | 0.000 | 63.720 | 01/06/1986 |
| 1987-1988 | 67.28 | 65.090 | 07/12/1987 | 0.000 | 63.805 | 01/06/1987 |
| 1988-1989 | 0.123 | 63.490 | 20/08/1988 | 0.000 | 63.535 | 01/06/1988 |
| 1989-1990 | 151.0 | 65.953 | 07/01/1990 | 0.000 | Dry Bed | 01/06/1989 |
| 1990-1991 | 53.33 | 64.900 | 04/11/1990 | 0.000 | 63.370 | 19./07/1990 |
| 1991-1992 | 20.20 | 64.650 | 12/07/1991 | 0.007 | 63.320 | 09/04/1992 |
| 1992-1993 | 423.2 | 67.823 | 14/11/1992 | 0.000 | Dry Bed | 04/09/1992 |
| 1993-1994 | 70.79 | 65.318 | 11/11/1993 | 0.000 | Dry Bed | 15/07/1993 |
| 1994-1995 | 26.76 | 64.790 | 13/11/1994 | 0.001 | 63.850 | 15/09/1994 |
| 1995-1996 | 20.44 | 64.710 | 29/11/1995 | 0.000 | 63.720 | 15/09/1995 |
| 1996-1997 | 0.045 | 63.900 | 17/10/1996 | 0.000 | 63.580 | 01/06/1996 |
| 1997-1998 | 181.4 | 66.220 | 08/11/1997 | 0.000 | Dry Bed | 01/06/1997 |

Q : Observed / Computed Discharge
WL : Corresponding Water Level(m.s.l)

**Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)**

| | Maximum | | | Minimum | | |
|---|---|---|---|---|---|---|
| **Year** | **Q (cumecs)** | **WL (m)** | **Date** | **Q (cumecs)** | **WL (m)** | **Date** |
| 1998-1999 | 151.6 | 65.730 | 12/12/1998 | 0.000 | 63.240 | 24/07/1998 |
| 1999-2000 | 4.518 | 63.960 | 23/11/1999 | 0.000 | 63.260 | 05/07/1999 |
| 2000-2001 | 230.8 | 66.475 | 02/01/2001 | 0.000 | 63.140 | 01/07/2000 |
| 2001-2002 | 70.83 | 65.190 | 09/07/2001 | 0.000 | 63.135 | 04/09/2001 |
| 2002-2003 | 0.117 | 63.400 | 10/11/2002 | 0.000 | Dry Bed | 01/06/2002 |
| 2003-2004 | 0.008 | 63.210 | 15/11/2003 | 0.000 | Dry Bed | 01/06/2003 |
| 2004-2005 | 81.89 | 65.200 | 16/11/2004 | 0.000 | Dry Bed | 01/06/2004 |
| 2005-2006 | 56.63 | 65.350 | 12/12/2005 | 0.000 | 63.190 | 30/06/2005 |
| 2006-2007 | 98.87 | 66.865 | 22/11/2006 | 0.000 | 63.210 | 24/07/2006 |
| 2007-2008 | 112.3 | 65.800 | 21/03/2008 | 0.000 | 63.130 | 28/08/2007 |
| 2008-2009 | 1.804 | 63.950 | 12/12/2008 | 0.000 | 63.130 | 22/09/2008 |
| 2009-2010 | 105.0 | 65.505 | 09/11/2009 | 0.000 | 63.145 | 26/07/2009 |
| 2010-2011 | 0.096 | 63.480 | 29/11/2010 | 0.000 | Dry Bed | 28/06/2010 |
| 2011-2012 | 21.64 | 64.535 | 27/11/2011 | 0.000 | Dry Bed | 01/06/2011 |
| 2012-2013 | 0.057 | 63.380 | 30/10/2012 | 0.000 | Dry Bed | 23/06/2012 |
| 2013-2014 | 26.51 | 64.500 | 08/05/2014 | 0.000 | Dry Bed | 01/06/2013 |
| 2014-2015 | 1.548 | 63.900 | 10/11/2014 | 0.000 | 62.480 | 01/06/2014 |

Q : Observed / Computed Discharge
WL : Corresponding Water Level(m.s.l)

## Stage-Discharge Data for the period 2015 - 2016

**Station Name : A.P.PURAM ( CTA00J1)** **Division : SR Division, Coimbatore**

**Local River : Chittar** **Sub-Division : Vaigai SD Madurai**

| Day | Jun | | Jul | | Aug | | Sep | | Oct | | Nov | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | W.L | Q | W.L | Q | W.L | Q | W.L | Q | W.L | Q | W.L | Q |
| 1 | 63.350 | 0.072 | 63.315 | 0.058 | 63.275 | 0.049 | 63.170 | 0.000 | 63.160 | 0.000 | 63.190 | 0.000 |
| 2 | 63.345 | 0.073 | 63.320 | 0.059 | 63.265 | 0.037 * | 63.160 | 0.000 | 63.165 | 0.000 | 63.175 | 0.000 |
| 3 | 63.340 | 0.067 | 63.335 | 0.061 | 63.265 | 0.048 | 63.150 | 0.000 | 63.160 | 0.000 | 63.180 | 0.000 |
| 4 | 63.360 | 0.077 | 63.380 | 0.089 | 63.265 | 0.044 | 63.160 | 0.000 | 63.155 | 0.000 | 63.185 | 0.000 |
| 5 | 63.355 | 0.074 | 63.340 | 0.067 * | 63.270 | 0.050 | 63.170 | 0.000 | 63.150 | 0.000 | 63.195 | 0.000 |
| 6 | 63.345 | 0.071 | 63.310 | 0.056 | 63.265 | 0.046 | 63.185 | 0.000 | 63.160 | 0.000 | 63.200 | 0.000 |
| 7 | 63.360 | 0.076 * | 63.300 | 0.054 | 63.260 | 0.033 # | 63.195 | 0.000 | 63.170 | 0.000 | 63.210 | 0.000 |
| 8 | 63.365 | 0.078 | 63.295 | 0.059 | 63.255 | 0.025 | 63.205 | 0.000 | 63.180 | 0.000 | 63.205 | 0.000 |
| 9 | 63.355 | 0.073 | 63.290 | 0.060 # | 63.260 | 0.033 * | 63.195 | 0.000 | 63.170 | 0.000 | 63.210 | 0.000 |
| 10 | 63.345 | 0.069 | 63.300 | 0.065 | 63.255 | 0.024 | 63.190 | 0.000 | 63.165 | 0.000 | 63.200 | 0.000 |
| 11 | 63.340 | 0.066 | 63.295 | 0.058 | 63.245 | 0.019 | 63.185 | 0.000 | 63.160 | 0.000 | 63.200 | 0.000 |
| 12 | 63.345 | 0.069 | 63.290 | 0.060 * | 63.250 | 0.023 | 63.180 | 0.000 | 63.150 | 0.000 | 63.210 | 0.000 |
| 13 | 63.340 | 0.065 | 63.290 | 0.063 | 63.245 | 0.022 | 63.175 | 0.000 | 63.145 | 0.000 | 63.215 | 0.000 |
| 14 | 63.340 | 0.067 * | 63.285 | 0.053 | 63.240 | 0.019 | 63.170 | 0.000 | 63.140 | 0.000 | 63.225 | 0.000 |
| 15 | 63.335 | 0.064 | 63.290 | 0.057 | 63.245 | 0.023 * | 63.165 | 0.000 | 63.135 | 0.000 | 63.470 | 0.455 * |
| 16 | 63.330 | 0.060 | 63.295 | 0.062 | 63.235 | 0.018 * | 63.160 | 0.000 | 63.145 | 0.000 | 63.440 | 0.357 # |
| 17 | 63.325 | 0.058 | 63.290 | 0.058 | 63.240 | 0.023 | 63.155 | 0.000 | 63.155 | 0.000 | 63.380 | 0.202 # |
| 18 | 63.330 | 0.060 | 63.285 | 0.055 * | 63.245 | 0.024 | 63.140 | 0.000 | 63.145 | 0.000 | 63.360 | 0.162 # |
| 19 | 63.325 | 0.059 | 63.290 | 0.060 * | 63.240 | 0.021 | 63.150 | 0.000 | 63.155 | 0.000 | 64.400 | 5.509 * |
| 20 | 63.320 | 0.058 | 63.285 | 0.052 | 63.235 | 0.017 | 63.155 | 0.000 | 63.160 | 0.000 | 65.305 | 57.28 |
| 21 | 63.325 | 0.060 * | 63.290 | 0.055 | 63.230 | 0.000 | 63.145 | 0.000 | 63.165 | 0.000 | 65.000 | 40.02 |
| 22 | 63.320 | 0.057 | 63.285 | 0.053 | 63.215 | 0.000 | 63.140 | 0.000 | 63.170 | 0.000 | 64.920 | 29.40 * |
| 23 | 63.325 | 0.057 | 63.290 | 0.056 | 63.200 | 0.000 | 63.145 | 0.000 | 63.170 | 0.000 | 64.880 | 23.51 |
| 24 | 63.320 | 0.057 | 63.285 | 0.053 | 63.195 | 0.000 | 63.150 | 0.000 | 63.160 | 0.000 | 65.500 | 67.53 |
| 25 | 63.315 | 0.056 | 63.285 | 0.055 | 63.200 | 0.000 | 63.160 | 0.000 | 63.160 | 0.000 | 64.950 | 31.36 * |
| 26 | 63.310 | 0.055 | 63.280 | 0.050 * | 63.190 | 0.000 | 63.165 | 0.000 | 63.170 | 0.000 | 64.640 | 14.17 # |
| 27 | 63.325 | 0.059 | 63.285 | 0.051 | 63.195 | 0.000 | 63.155 | 0.000 | 63.175 | 0.000 | 64.120 | 0.486 |
| 28 | 63.310 | 0.054 * | 63.275 | 0.050 | 63.185 | 0.000 | 63.155 | 0.000 | 63.170 | 0.000 | 64.070 | 0.166 # |
| 29 | 63.310 | 0.057 | 63.270 | 0.049 | 63.195 | 0.000 | 63.150 | 0.000 | 63.180 | 0.000 | 63.920 | 0.000 |
| 30 | 63.320 | 0.057 | 63.275 | 0.049 | 63.195 | 0.000 | 63.150 | 0.000 | 63.195 | 0.000 | 65.100 | 51.25 |
| 31 | | | 63.270 | 0.048 | 63.180 | 0.000 | | | 63.190 | 0.000 | | |
| Ten-Daily Mean | | | | | | | | | | | | |
| I Ten-Daily | 63.352 | 0.073 | 63.318 | 0.063 | 63.264 | 0.039 | 63.178 | 0.000 | 63.163 | 0.000 | 63.195 | 0.000 |
| II Ten-Daily | 63.333 | 0.063 | 63.289 | 0.058 | 63.242 | 0.021 | 63.164 | 0.000 | 63.149 | 0.000 | 63.621 | 6.397 |
| III Ten-Daily | 63.318 | 0.057 | 63.281 | 0.052 | 63.198 | 0.000 | 63.152 | 0.000 | 63.173 | 0.000 | 64.710 | 25.79 |
| Monthly | | | | | | | | | | | | |
| Min. | 63.310 | 0.054 | 63.270 | 0.048 | 63.180 | 0.000 | 63.140 | 0.000 | 63.135 | 0.000 | 63.175 | 0.000 |
| Max. | 63.365 | 0.078 | 63.380 | 0.089 | 63.275 | 0.050 | 63.205 | 0.000 | 63.195 | 0.000 | 65.500 | 67.53 |
| Mean | 63.334 | 0.064 | 63.296 | 0.057 | 63.233 | 0.019 | 63.164 | 0 | 63.162 | 0 | 63.842 | 10.73 |

**Annual Runoff in MCM = 44 Annual Runoff in mm = 40**

**Peak Observed Discharge = 67.53 cumecs on 24/11/2015 Corres. Water Level :65.5 m**

**Lowest Observed Discharge = 0.000 cumecs on 21/08/2015 Corres. Water Level :63.23 m**

Q: Observed/Computed Discharge in cumecs

WL:Corresponding Mean Water Level(m.s.l) in m

*:Computed Discharge

#:Discarded Discharge (values changed as per rating curve)

*Note:Missing values ignored while arriving at Annual Runoff*

## Stage-Discharge Data for the period 2015 - 2016

**Station Name : A.P.PURAM ( CTA00J1)** **Division : SR Division, Coimbatore**

**Local River : Chittar** **Sub-Division : Vaigai SD Madurai**

| Day | Dec | | Jan | | Feb | | Mar | | Apr | | May | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | W.L | Q | WL | Q | WL | Q | WL | Q | WL | Q | WL | Q |
| 1 | 65.100 | 12.01 # | 63.930 | 3.857 | 63.420 | 0.085 | 63.405 | 0.085 | 63.325 | 0.063 | 63.320 | 0.060 * |
| 2 | 64.380 | 3.908 | 63.910 | 3.571 | 63.415 | 0.083 | 63.400 | 0.077 | 63.330 | 0.063 | 63.335 | 0.067 |
| 3 | 64.720 | 7.721 | 63.860 | 2.827 * | 63.410 | 0.081 | 63.390 | 0.077 | 63.335 | 0.064 * | 63.325 | 0.064 |
| 4 | 64.610 | 5.602 | 63.800 | 2.109 | 63.400 | 0.073 | 63.395 | 0.081 | 63.335 | 0.065 | 63.320 | 0.063 |
| 5 | 64.380 | 4.214 | 63.740 | 1.826 | 63.390 | 0.072 | 63.400 | 0.082 | 63.330 | 0.062 | 63.315 | 0.061 |
| 6 | 64.330 | 3.876 * | 63.600 | 0.248 | 63.410 | 0.077 | 63.390 | 0.079 * | 63.320 | 0.061 | 63.310 | 0.057 |
| 7 | 64.340 | 4.503 | 63.540 | 0.197 | 63.420 | 0.088 * | 63.385 | 0.078 | 63.335 | 0.066 | 63.310 | 0.057 |
| 8 | 64.360 | 4.620 | 63.470 | 0.162 | 63.435 | 0.089 | 63.370 | 0.072 | 63.340 | 0.068 | 63.315 | 0.059 * |
| 9 | 64.820 | 8.525 # | 63.450 | 0.135 | 63.440 | 0.092 | 63.350 | 0.067 | 63.335 | 0.065 | 63.315 | 0.058 |
| 10 | 64.580 | 4.468 | 63.440 | 0.094 * | 63.450 | 0.099 | 63.345 | 0.066 | 63.335 | 0.064 * | 63.310 | 0.059 |
| 11 | 64.770 | 9.278 | 63.420 | 0.107 | 63.440 | 0.094 | 63.340 | 0.064 | 63.330 | 0.062 | 63.305 | 0.054 |
| 12 | 64.540 | 4.404 | 63.400 | 0.103 | 63.450 | 0.096 | 63.345 | 0.066 | 63.325 | 0.059 | 63.340 | 0.070 |
| 13 | 64.850 | 8.869 * | 63.425 | 0.113 | 63.455 | 0.100 | 63.350 | 0.068 * | 63.335 | 0.065 | 63.500 | 0.114 # |
| 14 | 64.800 | 10.16 | 63.410 | 0.105 | 63.445 | 0.096 * | 63.350 | 0.067 | 63.345 | 0.067 * | 63.480 | 0.107 # |
| 15 | 64.460 | 4.741 | 63.400 | 0.082 * | 63.435 | 0.092 | 63.360 | 0.068 | 63.340 | 0.069 | 63.460 | 0.101 * |
| 16 | 64.420 | 4.559 | 63.410 | 0.103 | 63.420 | 0.088 | 63.365 | 0.071 | 63.330 | 0.063 | 63.440 | 0.096 |
| 17 | 64.370 | 4.601 | 63.400 | 0.082 * | 63.410 | 0.081 | 63.350 | 0.068 | 63.325 | 0.062 * | 63.435 | 0.089 |
| 18 | 64.310 | 4.023 | 63.390 | 0.093 | 63.405 | 0.078 | 63.340 | 0.063 | 63.315 | 0.058 | 63.450 | 0.094 |
| 19 | 64.380 | 4.271 | 63.410 | 0.091 | 63.400 | 0.076 | 63.330 | 0.062 | 63.310 | 0.055 | 63.465 | 0.101 |
| 20 | 64.580 | 4.893 * | 63.400 | 0.090 | 63.410 | 0.077 | 63.320 | 0.060 * | 63.320 | 0.060 * | 63.460 | 0.094 |
| 21 | 64.680 | 5.370 | 63.420 | 0.093 | 63.400 | 0.082 * | 63.315 | 0.057 | 63.330 | 0.064 | 63.445 | 0.096 * |
| 22 | 64.560 | 4.666 | 63.430 | 0.097 | 63.415 | 0.083 | 63.310 | 0.055 | 63.325 | 0.063 | 63.435 | 0.096 * |
| 23 | 64.320 | 4.086 # | 63.420 | 0.093 | 63.405 | 0.078 | 63.300 | 0.052 | 63.320 | 0.060 | 63.420 | 0.082 |
| 24 | 64.160 | 3.625 * | 63.410 | 0.085 * | 63.390 | 0.077 | 63.315 | 0.053 | 63.315 | 0.059 * | 63.410 | 0.080 |
| 25 | 64.080 | 3.406 * | 63.420 | 0.090 | 63.380 | 0.077 | 63.325 | 0.062 * | 63.320 | 0.058 | 63.395 | 0.076 |
| 26 | 64.060 | 3.370 | 63.415 | 0.087 * | 63.395 | 0.079 | 63.320 | 0.055 | 63.325 | 0.065 | 63.380 | 0.076 |
| 27 | 63.880 | 2.841 | 63.425 | 0.081 | 63.380 | 0.077 | 63.310 | 0.058 * | 63.330 | 0.068 | 63.350 | 0.067 |
| 28 | 63.840 | 2.621 | 63.430 | 0.088 | 63.370 | 0.074 * | 63.305 | 0.054 | 63.325 | 0.067 | 63.335 | 0.065 |
| 29 | 63.900 | 3.246 | 63.420 | 0.088 | 63.395 | 0.078 | 63.320 | 0.059 | 63.320 | 0.063 | 63.325 | 0.062 * |
| 30 | 63.950 | 3.894 | 63.430 | 0.088 | | | 63.335 | 0.069 | 63.335 | 0.068 | 63.320 | 0.064 |
| 31 | 63.960 | 4.070 | 63.425 | 0.090 * | | | 63.320 | 0.061 | | | 63.310 | 0.057 |
| **Ten-Daily Mean** | | | | | | | | | | | | |
| I Ten-Daily | 64.562 | 5.945 | 63.674 | 1.503 | 63.419 | 0.084 | 63.383 | 0.076 | 63.332 | 0.064 | 63.317 | 0.060 |
| II Ten-Daily | 64.548 | 5.980 | 63.407 | 0.097 | 63.427 | 0.088 | 63.345 | 0.066 | 63.328 | 0.062 | 63.434 | 0.092 |
| III Ten-Daily | 64.126 | 3.745 | 63.422 | 0.089 | 63.392 | 0.078 | 63.316 | 0.058 | 63.325 | 0.063 | 63.375 | 0.075 |
| **Monthly** | | | | | | | | | | | | |
| Min. | 63.840 | 2.621 | 63.390 | 0.081 | 63.370 | 0.072 | 63.300 | 0.052 | 63.310 | 0.055 | 63.305 | 0.054 |
| Max. | 65.100 | 12.01 | 63.930 | 3.857 | 63.455 | 0.100 | 63.405 | 0.085 | 63.345 | 0.069 | 63.500 | 0.114 |
| Mean | 64.403 | 5.175 | 63.498 | 0.548 | 63.413 | 0.084 | 63.347 | 0.066 | 63.328 | 0.063 | 63.375 | 0.076 |

**Peak Computed Discharge = 31.36 cumecs on 25/11/2015** **Corres. Water Level :64.95 m**

**Lowest Computed Discharge = 0.018 cumecs on 16/08/2015** **Corres. Water Level :63.235 m**

Q: Observed/Computed Discharge in cumecs

WL:Corresponding Mean Water Level(m.s.l) in m

*:Computed Discharge

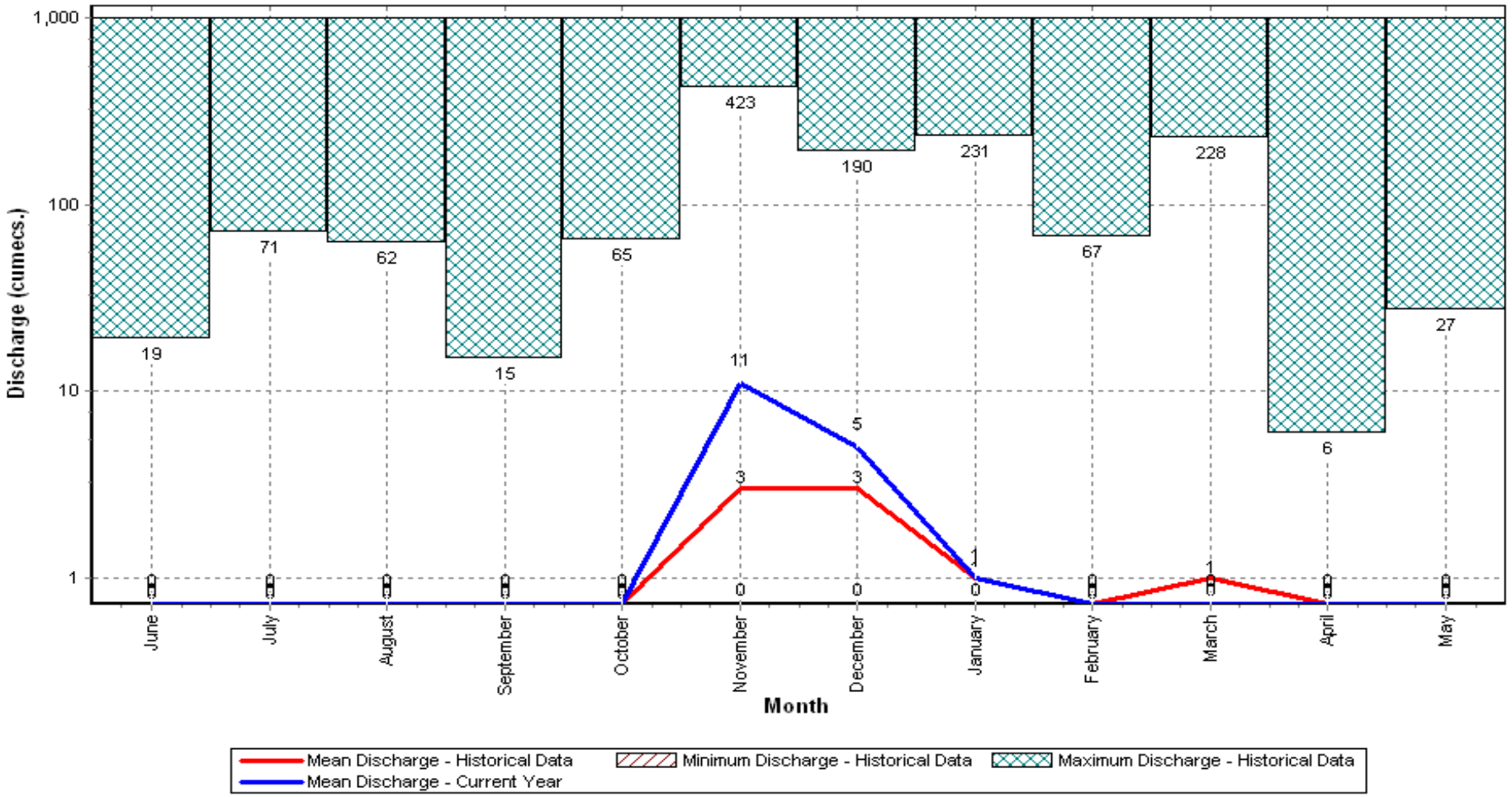
#:Discarded Discharge (values changed as per rating curve)

*Note:Missing values ignored while arriving at Annual Runoff*

**HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016**

**Station Name : A.P.PURAM ( CTA00J1)** | **Data considered : 1980-2016** | **Division : SR Division, Coimbatore**

**Local River : Chittar** | **Sub-Division : Vaigai SD Madurai**



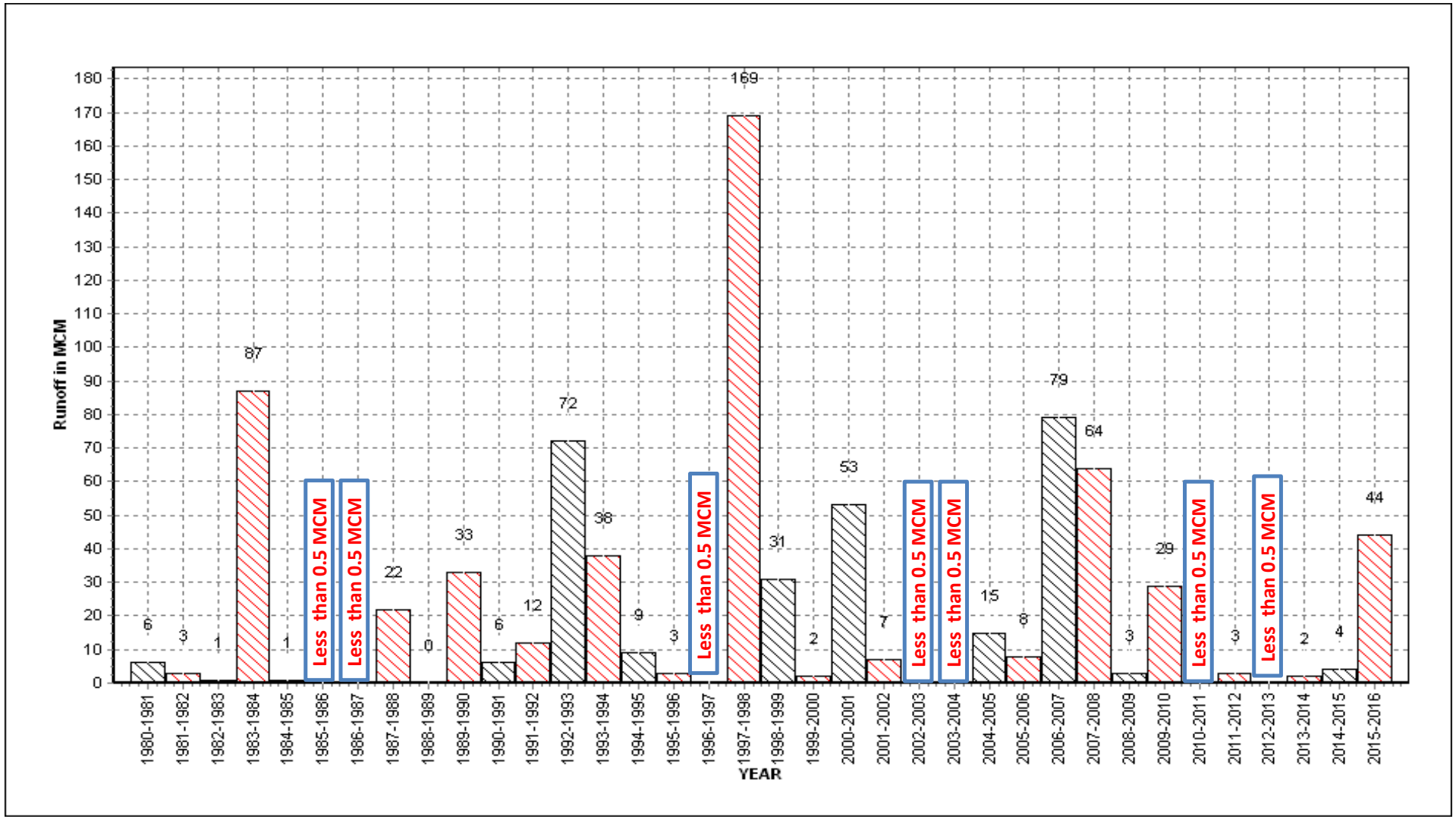
**Annual Runoff Values for the period: 1980 - 2016**

**Station Name : A.P.PURAM ( CTA00J1)**

**Local River : Chittar**

**Division : SR Division, Coimbatore**

**Sub-Division : Vaigai SD Madurai**




*Note: Missing values have not been considered while arriving at Annual Runoff*

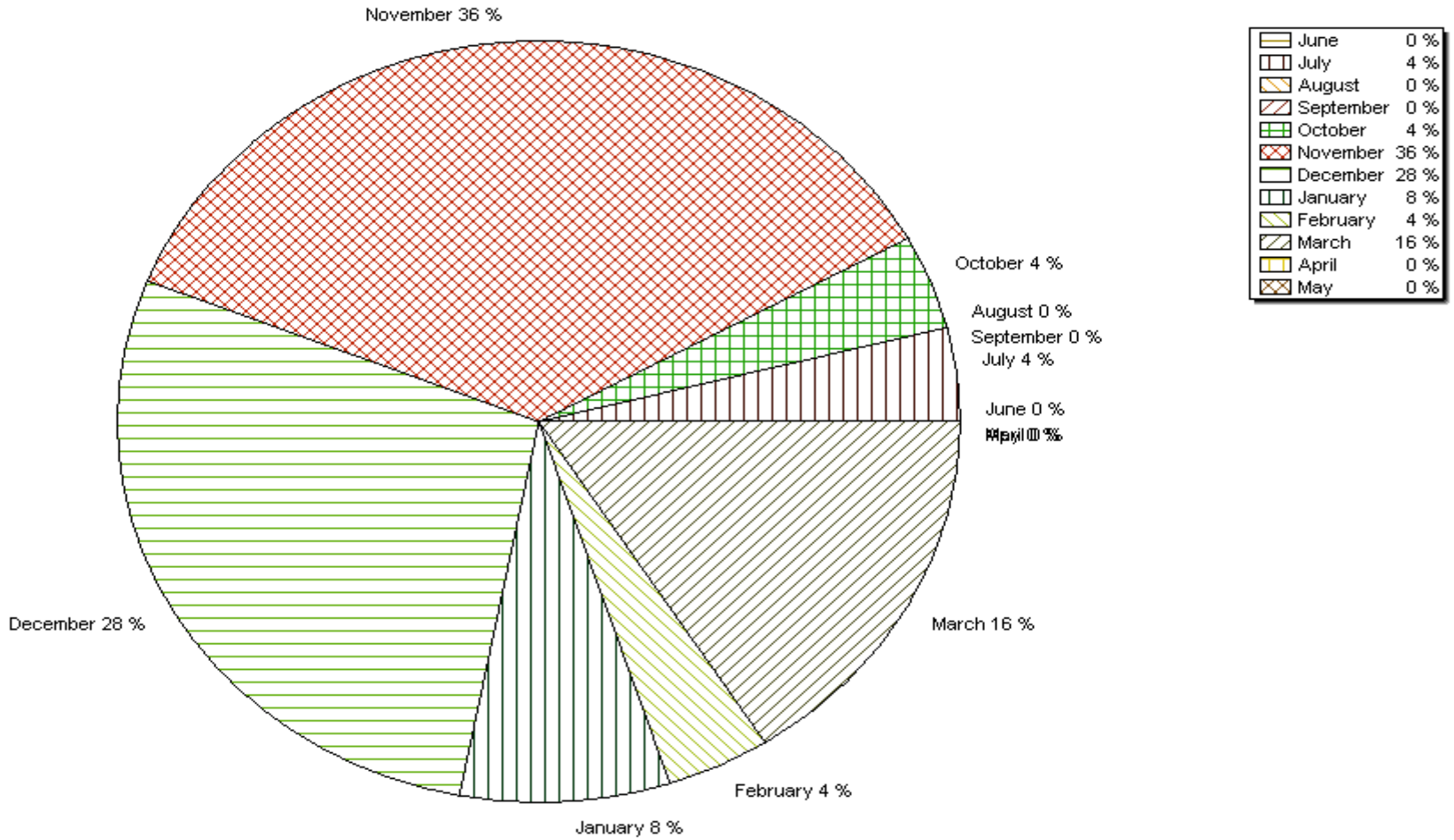
**Monthly Average Runoff based on period : 1980-2015**

**Station Name : A.P.PURAM ( CTA00J1)**

**Local River : Chittar**

**Division : SR Division, Coimbatore**

**Sub-Division : Vaigai SD Madurai**



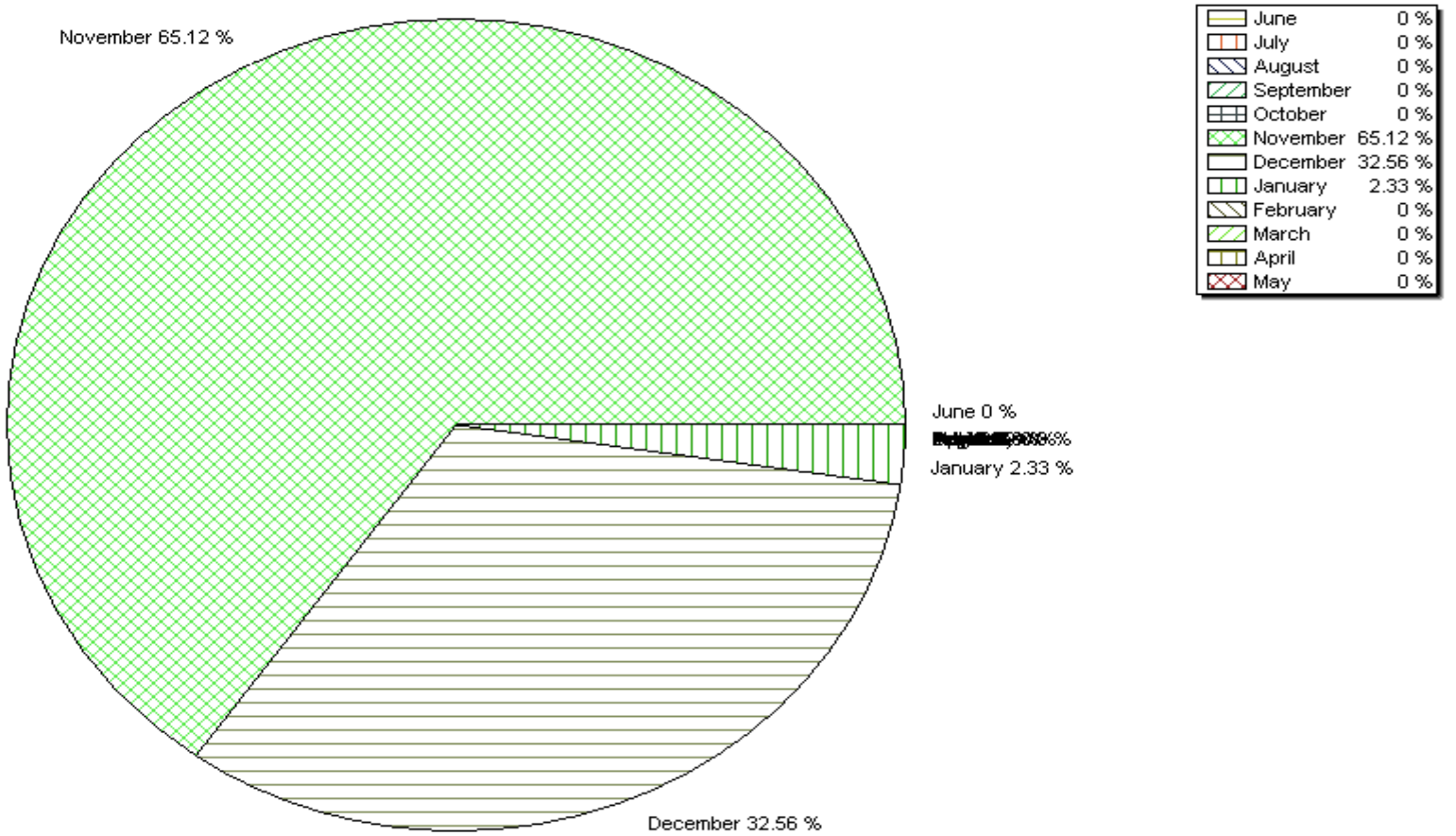
**Monthly Runoff for the Year : 2015-2016**

**Station Name : A.P.PURAM ( CTA00J1)**

**Local River : Chittar**

**Division : SR Division, Coimbatore**

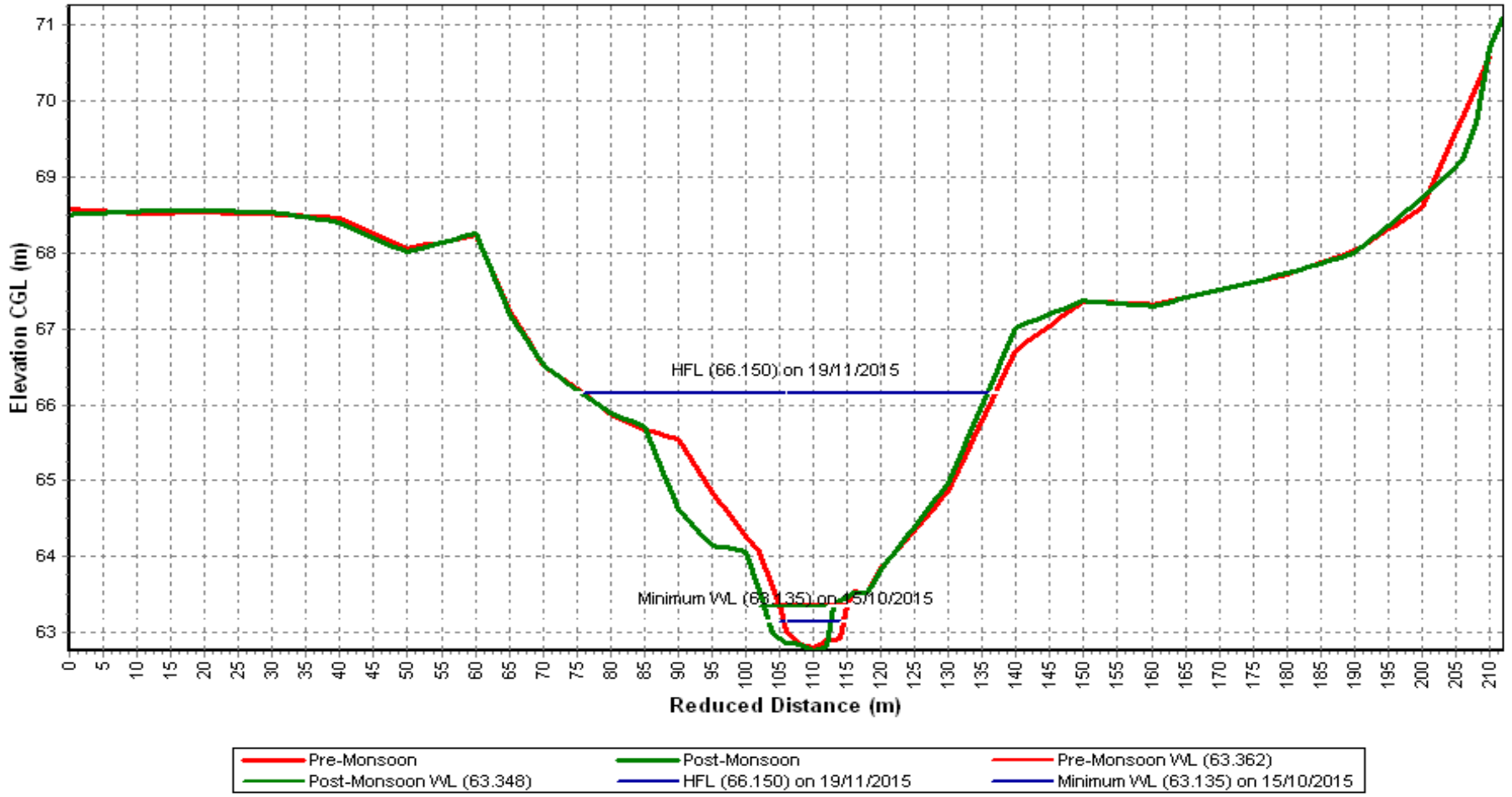
**Sub-Division : Vaigai SD Madurai**



**Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2015-2016**

**Station Name : A.P.PURAM ( CTA00J1)** **Division : SR Division, Coimbatore**

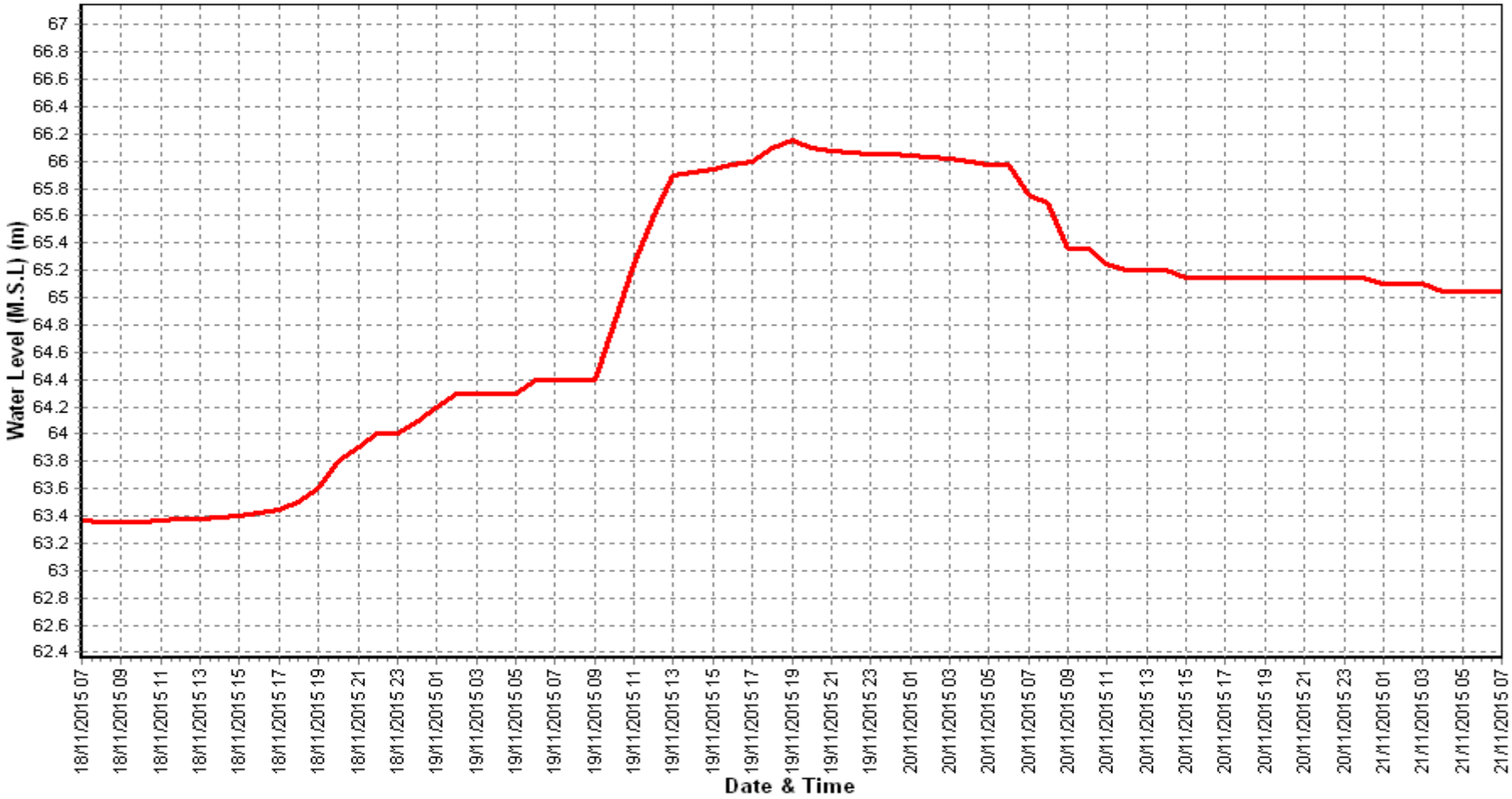
**Local River : Chittar** **Sub-Division : Vaigai SD Madurai**



**Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2015-2016**

**Station Name : A.P.PURAM ( CTA00J1)** **Division : SR Division, Coimbatore**

**Local River : Chittar** **Sub-Division : Vaigai SD Madurai**




Time Span: 72 Hrs

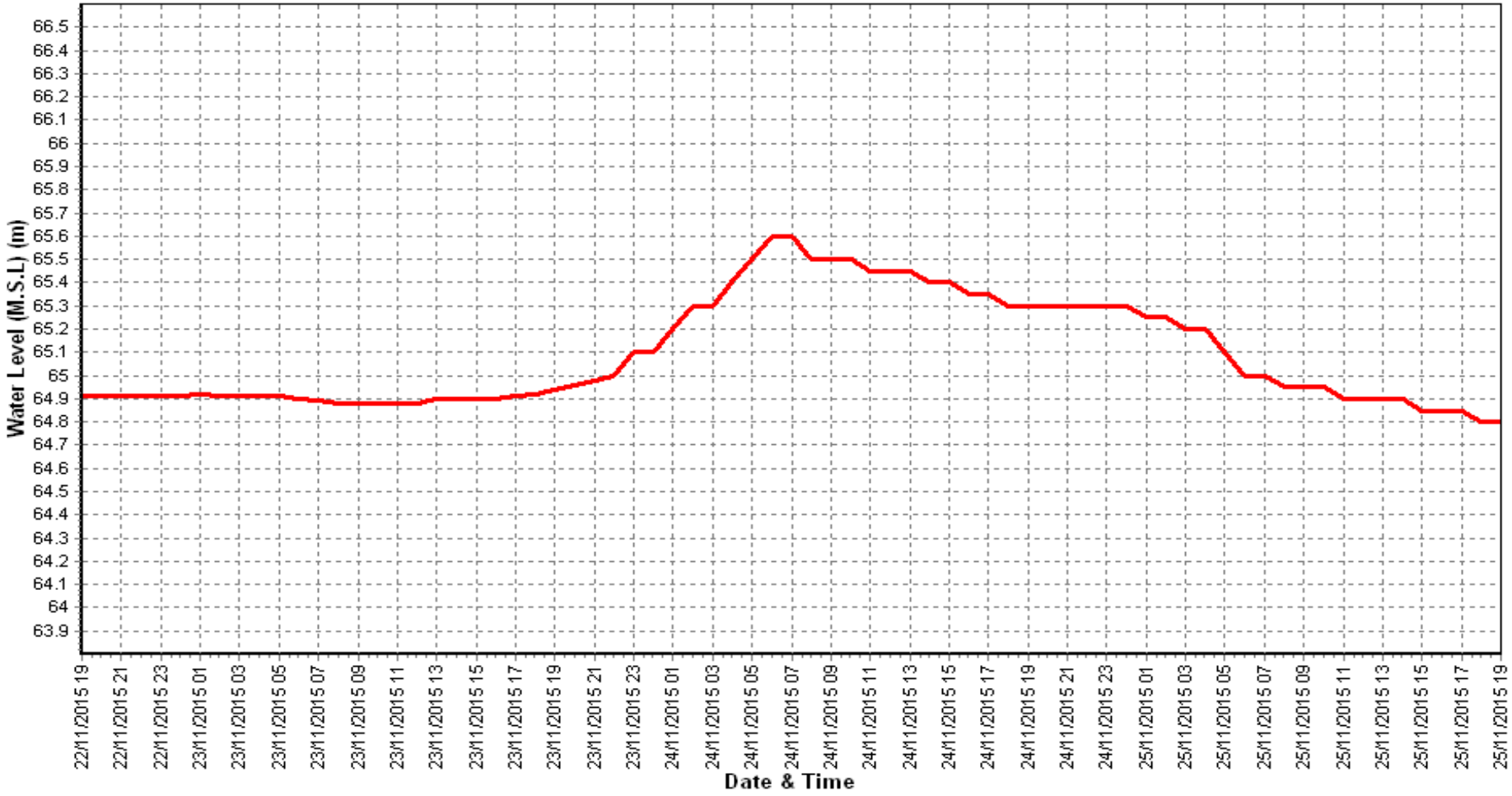
**Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2015-2016**

**Station Name : A.P.PURAM ( CTA00J1)**

**Division : SR Division, Coimbatore**

**Local River : Chittar**

**Sub-Division : Vaigai SD Madurai**




Time Span: 72 Hrs

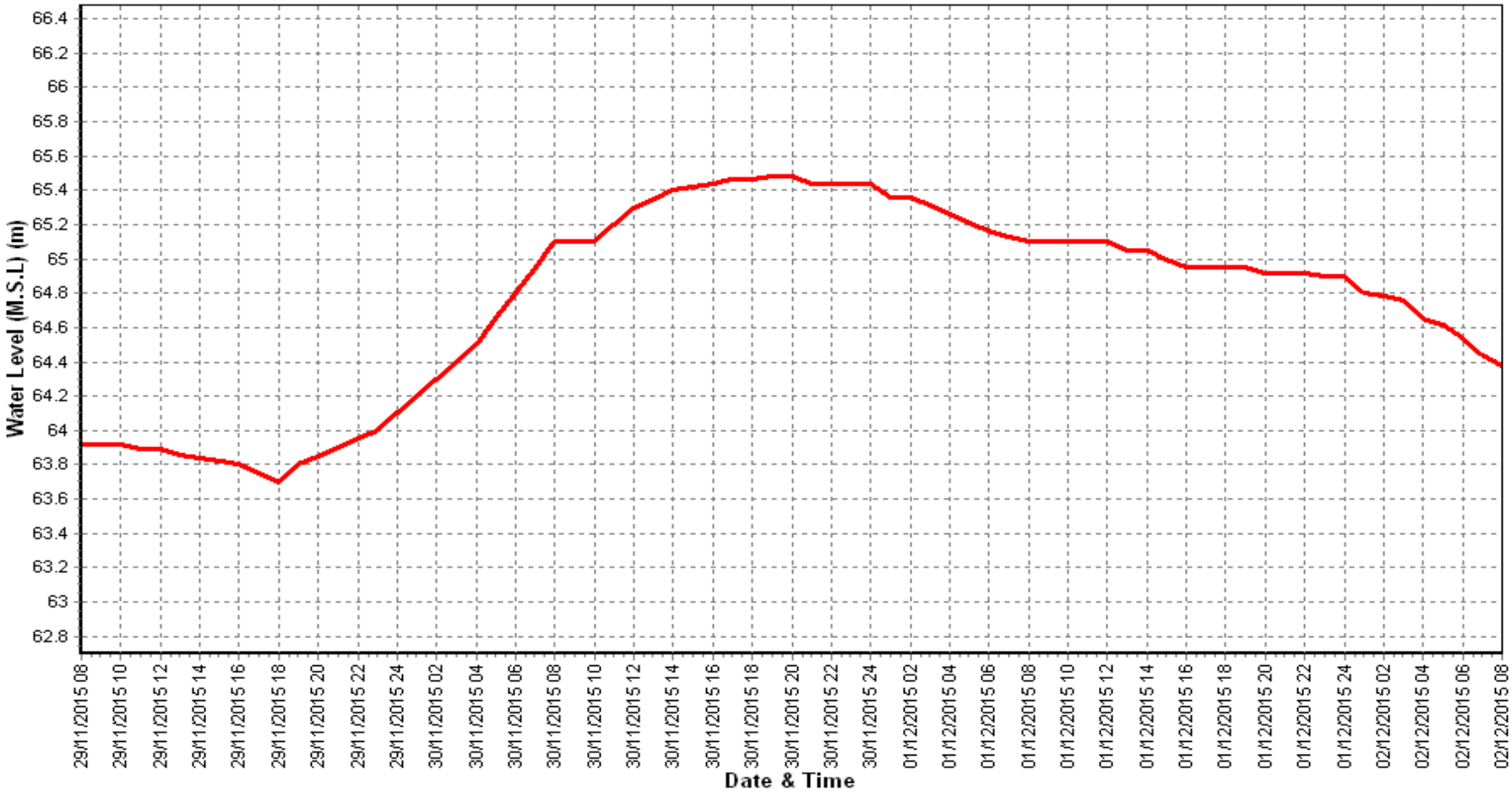
**Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2015-2016**

**Station Name : A.P.PURAM ( CTA00J1)**

**Division : SR Division, Coimbatore**

**Local River : Chittar**

**Sub-Division : Vaigai SD Madurai**




Time Span: 72 Hrs

**Annexure-II**

# DETAILS OF IMPORTANT PROJECTS IN GUNDLAKAMMA BASIN

| Sl.No | Name of Project | River | Status | Capacity in MCM | | Utilisation in MCM | |
|---|---|---|---|---|---|---|---|
| | | | | Gross | live | Designed | Actual |
| 1 | **Major Projects** | Nil | | | | | |
| | **Medium Projects** | | | | | | |
| 2 | Gumbum tank | Gundlakamma | Completed | - | - | 19.67 | 33.99 |
| | Markpur tank | Gundlakamma | Completed | - | - | 8.75 | 5.71 |

**Annexure -III**

# DETAILS OF IMPORTANT PROJECTS IN PENNAR BASIN

| Sl.No | Name of Project | River | Status | Capacity in MCM | | Utilisation in MCM |
|---|---|---|---|---|---|---|
| | | | | Gross | live | |
| 1 | Jayamangali Anicut | Jayamangali | Completed | - | - | - |
| 2 | Garudachala Project | -do- | -do- | - | - | - |
| 3 | Pennar Kumudavathi Project | Pennar | -do- | - | - | - |
| 4 | Uttara Pinakini Project | -do- | -do- | - | - | - |
| 5 | Upper Pennar Project | -do- | -do- | 51.28 | 44.57 | - |
| 6 | Pennar Ahobilam balancing Reservoir | -do- | -do- | 314.32 | 304.97 | |
| 7 | Mid-Pennar Project | -do- | -do- | 146.67 | 144.69 | - |
| 8 | Vidyaranyaswamygudi Project | Chitravati | -do- | - | - | - |
| 9 | Chitravathi Anicut | Chitravati | -do- | - | - | - |
| 10 | Pulivandala Reservoir | -do- | -do- | 282.0 | 282.0 | 282.0 |
| 11 | Mylavaram Reservoir | Pennar | -do- | 282.56 | 254.31 | - |
| 12 | Santajutur Anicut | Galeru | -do- | - | - | - |
| 13 | Jurreru Reservoir | Kunderu | -do- | 7.53 | 7.05 | - |
| 14 | Rajoli Anicut | Kunderu | -do- | - | - | - |
| 15 | Chennarayaswamygudi Anicut | Papagini | -do- | - | - | - |
| 16 | Pedderu Reservoir Stage I | Pedderu | -do- | 20.38 | 14.98 | - |
| 17 | Adinimmayapalli Anicut | Pennar | -do- | - | - | - |

**Annexure –III**
**(Contd..)**

# DETAILS OF IMPORTANT PROJECTS IN PENNAR BASIN

| Sl.No | Name of Project | River | Status | Capacity in MCM | | Utilisation in MCM |
|---|---|---|---|---|---|---|
| | | | | Gross | live | |
| 18 | Buggavanka Project | Buggavanka | Completed | 14.32 | 12.04 | - |
| 19 | Upper Sagileru Project | Sagileru | -do- | 2.00 | 2.00 | - |
| 20 | Lower Sagileru Project | -do- | -do- | 4.78 | 4.69 | - |
| 21 | Bahuda Reservoir | Bahuda | -do- | 14.06 | 13.35 | - |
| 22 | Siddalagandi Project | Siddalagandi | -do- | - | - | - |
| 23 | Pincha Project | Pincha | -do- | 9.25 | 9.12 | 9.12 |
| 24 | Annamaiah Project | Cheyyeru | -do- | 63.16 | 44.58 | 44.58 |
| 25 | Somasila Reservoir | Pennar | -do- | - | - | - |
| 26 | Sangam Anicut | -do- | -do- | - | - | - |
| 27 | Nellore Anicut | -do- | -do- | - | - | - |
| 28 | Maddileru Project | Maddileru | -do- | - | - | - |
| 29 | Veligallu Reservoir | Papagni | -do- | 131.65 | 95.13 | 95.62 |
| 30 | Araniar Reservoir | Araniar | -do- | 52.48 | 51.69 | - |
| 31 | Gandipalem Reservoir | Manneru | -do- | 66.39 | 61.62 | - |
| 32 | Swarnamukhi Anicut | Swarnamukhi | -do- | - | - | - |
| 33 | Kalangi Reservoir | Kalangi | -do- | 6.82 | 6.79 | - |
| 34 | Taniyali Reservoir | Kaler | -do- | - | - | - |

**Annexure -IV**

## DETAILS OF IMPORTANT PROJECTS IN PALAR BASIN

| Sl.No | Name of Project | River | Status | Capacity in MCM | | Utilisation in MCM |
|---|---|---|---|---|---|---|
| | | | | Gross | live | |
| 1 | Poiney Anicut | Poiney | Completed | - | - | - |
| 2 | Palar Anicut | Palar | -do- | - | - | - |
| 3 | Chengam Anicut | Cheyyar | -do- | - | - | - |
| 4 | Aliabad Anicut | -do- | -do- | - | - | - |
| 5 | Sathiya Vija Nagram Anicut | -do- | -do- | - | - | - |
| 6 | Cheyyar Anicut | -do- | -do- | - | - | - |
| 7 | Thandari Anicut | -do- | -do- | - | - | - |
| 8 | Uttiramerur Anicut | -do- | -do- | - | - | - |
| 9 | Mordhana Reservoir | Palar | -do- | 7.40 | 7.40 | - |
| 10 | Rajathopekanar Reservoir | Palar | -do- | 0.58 | 0.58 | - |

## Annexure - V

### DETAILS OF IMPORTANT PROJECTS IN PONNAIYAR BASIN

| Sl.No | Name of Project | River | Status | Capacity in MCM | | Utilisation in MCM |
|---|---|---|---|---|---|---|
| | | | | Gross | live | |
| 1 | Krishnagiri Reservoir | Ponnaiyar | Completed | 66.10 | 66.10 | - |
| 2 | Sathanur Reservoir | -do- | -do- | 228.91 | 228.91 | - |
| 3 | Pambar Reservoir | Pambar | -do- | 7.93 | 7.02 | - |
| 4 | Vaniar Reservoir | Vaniar | -do- | 11.84 | 11.78 | - |
| 5 | Thambalahalli Reservoir | Pullambatti | -do- | 3.68 | 3.68 | - |
| 6 | Kelavarapalli Reservoir | Ponnaiyar | -do- | 13.22 | 13.22 | - |
| 7 | Sornavur Anicut | -do- | -do- | - | - | - |
| 8 | Ellis Choultry Anicut | -do- | -do- | - | - | - |
| 9 | Tirukoyilur Anicut | -do- | -do- | - | - | - |
| 10 | Sathanur Pickup Weir | -do- | -do- | - | - | - |
| 11 | Ichambadi Anicut | -do- | -do- | - | - | - |
| 12 | Shoolagiri Chinnar Reservoir | Shoolagiri Chinnar | -do- | 3.30 | 2.30 | - |

## Annexure - VI

# DETAILS OF IMPORTANT PROJECTS IN VELLAR BASIN

| Sl.No | Name of Project | River | Status | Capacity in MCM | | Utilisation in MCM |
|---|---|---|---|---|---|---|
| | | | | Gross | live | |
| 1 | Sethiathope Anicut | Vellar | Completed | - | - | - |
| 2 | Pelandurai Regulator | Periya Odai | -do- | - | - | - |
| 3 | Tholudur Anicut | Periya Odai | -do- | - | - | - |
| 4 | Manimukthanadhi Reservoir | Manimukthanadhi | -do- | 20.62 | 20.62 | - |
| 5 | Gomukhinadhi Reservoir | Gomukhinadhi | -do- | 15.86 | 15.86 | - |
| 6 | Mehamathur Anicut | Manimukthanadhi | -do- | - | - | - |
| 7 | Virudhachalam Anicut | Manimukthanadhi | -do- | - | - | - |
| 8 | Willington Reservoir | Periya Odai | -do- | 73.40 | 60.01 | - |
| 9 | Anaimaduvu Reservoir | Anaimaduvu | -do- | 7.56 | 7.42 | - |
| 10 | Kariakoil Reservoir | Kariakoil | -do- | 5.38 | 5.38 | - |

**Annexure - VII**

# DETAILS OF IMPORTANT PROJECTS IN VAIGAI BASIN

| Sl. No | Name of Project | River | Status | Capacity in MCM | | Utilisation in MCM |
|---|---|---|---|---|---|---|
| | | | | Gross | live | |
| 1 | Surplus Weir of Ramnad | Vaigai Big Tank | Completed | - | - | - |
| 2 | Parthibanur Regulator | -do- | -do- | - | - | - |
| 3 | Virahanaur Regulator | -do- | -do- | - | - | - |
| 4 | Perani Regulator | -do- | -do- | - | - | - |
| 5 | Marudhanadhi Reservoir | Marudhanadhi | -do- | 4.93 | 4.93 | - |
| 6 | Manjalar Reservoir | Manjalar | -do- | 13.48 | 13.48 | - |
| 7 | Vaigai Reservoir | Vaigai | -do- | 194.78 | 193.84 | - |
| 8 | Palanichettipatty Anicut | Suruliyar | -do- | - | - | - |
| 9 | Sothuparai Reservoir | Varahanadhi | -do- | 2.83 | 2.83 | - |

**Annexure - VIII**

## DETAILS OF IMPORTANT PROJECTS IN VAIPPAR BASIN

| Sl. No | Name of Project | River | Status | Capacity in MCM | | Utilisation in MCM |
|---|---|---|---|---|---|---|
| | | | | Gross | live | |
| 1 | Periyar Reservoir | Periyar | Completed | 443.49 | 299.31 | - |
| 2 | Kovilar Reservoir (Pillavukkal Scheme) | Kovilar | -do- | 3.77 | 3.77 | - |
| 3 | Vembakottai Reservoir | Vaippar | -do- | 11.29 | 11.29 | - |
| 4 | Kullursandai Reservoir | Vaippar | -do- | 3.59 | 3.59 | - |
| 5 | Golwarpatti Reservoir | Arjunanadhi | -do- | 5.04 | 4.98 | - |
| 6 | Anaikuttam Reservoir | Arjunanadhi | -do- | 6.602 | 3.56 | - |

**Annexure –IX**

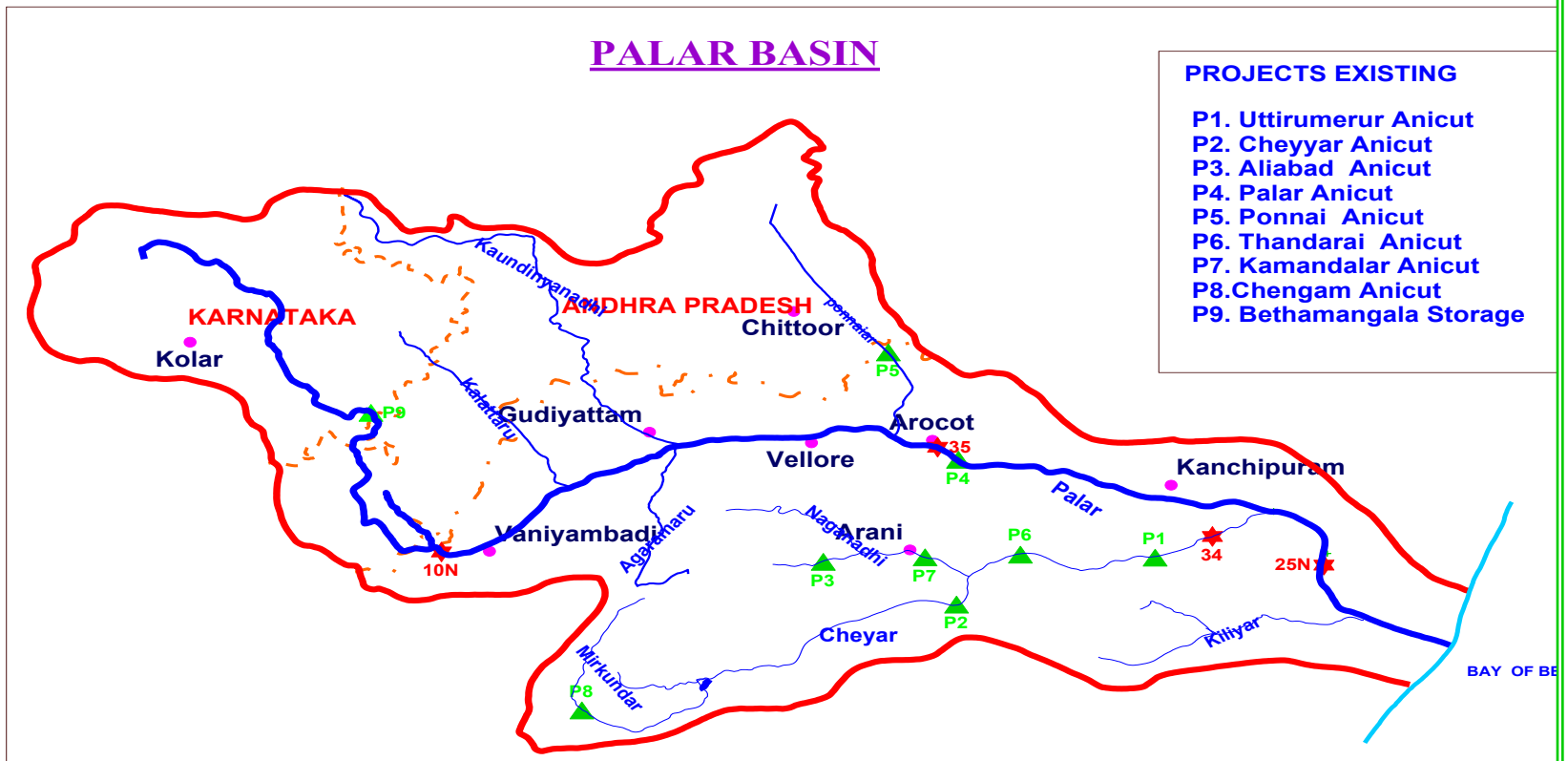
## DETAILS OF IMPORTANT PROJECTS IN TAMBRAPARANI BASIN

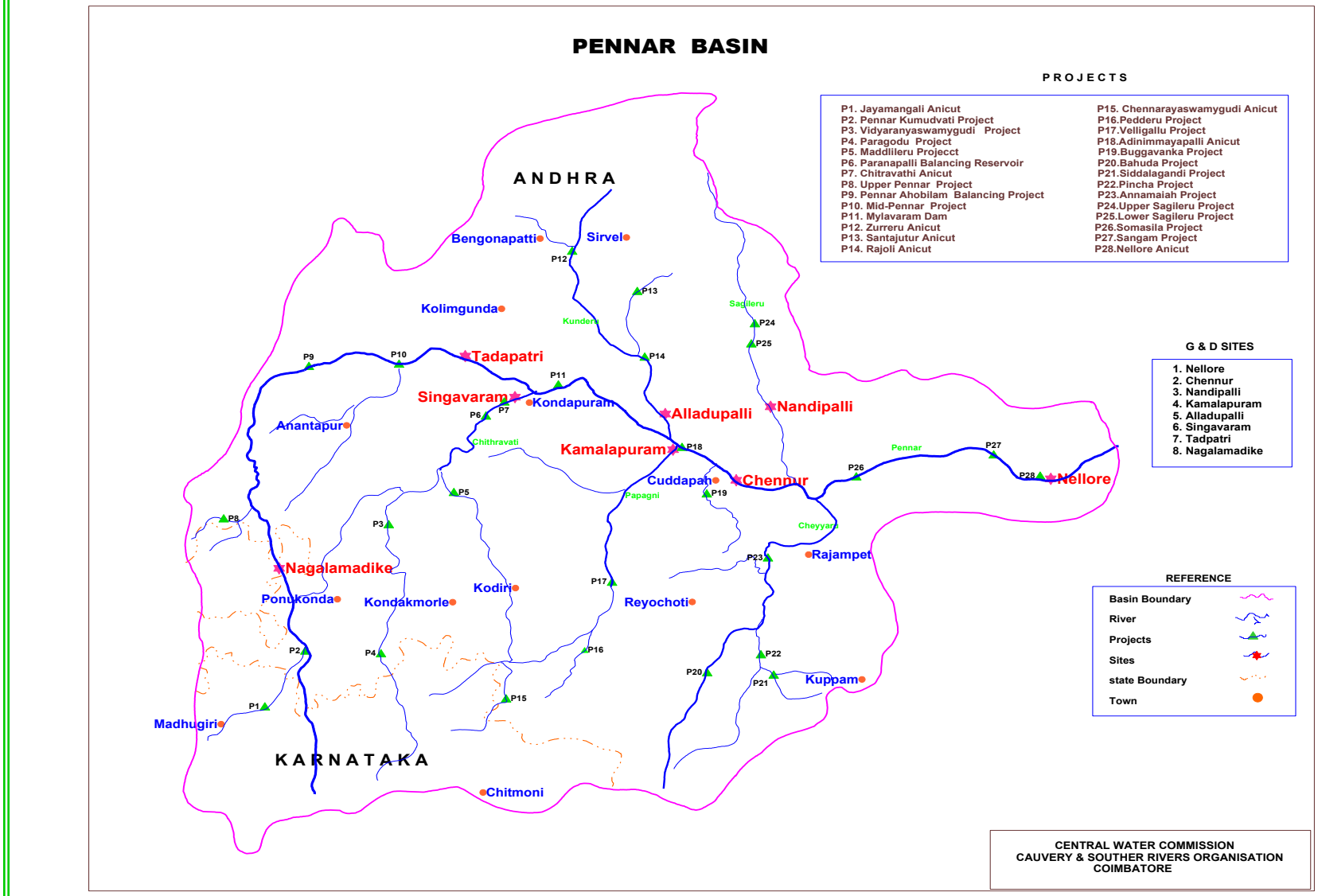
| Sl.No | Name of Project | River | Status | Capacity in MCM | | Utilisaon in MCM |
|---|---|---|---|---|---|---|
| | | | | Gross | live | |
| 1 | Kodamelalagian Anicut | Tambraparani | Completed | - | - | - |
| 2 | Nathiyunni Anicut | -do- | -do- | - | - | - |
| 3 | Kannadian Anicut | -do- | -do- | - | - | - |
| 4 | Ariyanayagipuram Anicut | -do- | -do- | - | - | - |
| 5 | Pavoor Anicut | -do- | -do- | - | - | - |
| 6 | Suthamali Anicut | -do- | -do- | - | - | - |
| 7 | Marudur Anicut | -do- | -do- | - | - | - |
| 8 | Srivaikuntam Anicut | -do- | -do- | - | - | - |
| 9 | Thalai Anicut | Chittar | -do- | - | - | - |
| 10 | Adivattamparai Anicut | -do- | -do- | - | - | - |
| 11 | Valvilangudi Anicut | -do- | -do- | - | - | - |
| 12 | Puliyur Anicut | -do- | -do- | - | - | - |
| 13 | Melpavoor Anicut | -do- | -do- | - | - | - |
| 14 | Thiruchitrambalam Anicut | -do- | -do- | - | - | - |
| 15 | Murandai Anicut | -do- | -do- | - | - | - |

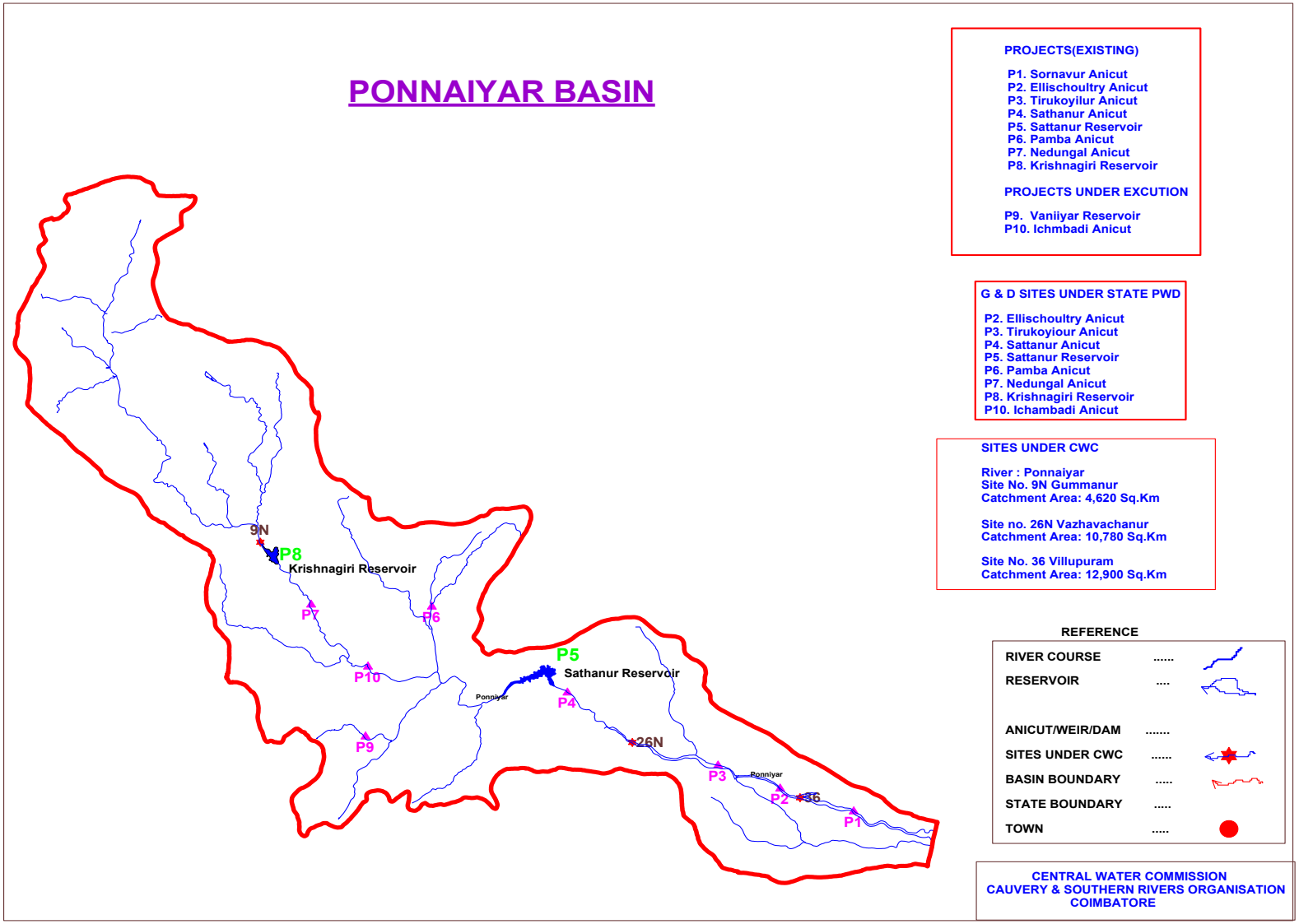
**Annexure - IX**
**(Contd..)**

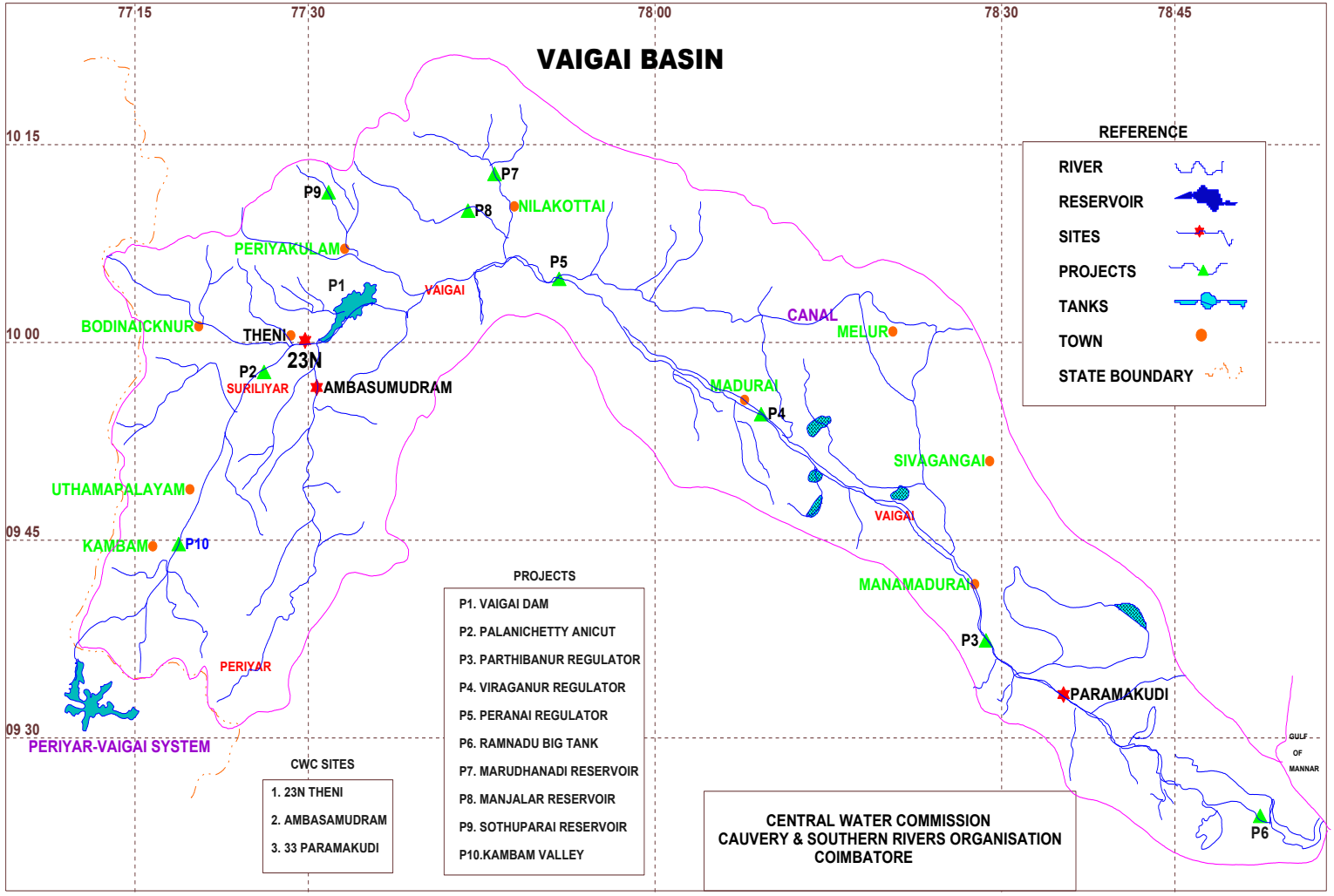
**DETAILS OF IMPORTANT PROJECTS IN TAMBRAPARANI BASIN**

| Sl.No | Name of Project | River | Status | Capacity in MCM | | Utilisation in MCM |
|---|---|---|---|---|---|---|
| | | | | Gross | live | |
| 16 | Manur Anicut | Chittar | Completed | - | - | - |
| 17 | Nettur Anicut | -do- | -do- | - | - | - |
| 18 | Pallikottai Anicut | -do- | -do- | - | - | - |
| 19 | Ukkiran kottai Anicut | -do- | -do- | - | - | - |
| 20 | Alagia Pandiyapuram Anicut | -do- | -do- | - | - | - |
| 21 | Pillayarkulam Anicut | -do- | -do- | - | - | - |
| 22 | Seliyanallur Anicut | -do- | -do- | - | - | - |
| 23 | Pirancheri Anicut | -do- | -do- | - | - | - |
| 24 | Gangai Kondan Anicut | -do- | -do- | - | - | - |
| 25 | Manimuthar Reservoir Manimuthar | Manimuthar | -do- | 156.07 | 156.07 | - |
| 26 | Gatana Reservoir | Gatana nadhi | -do- | 9.97 | 9.97 | - |
| 27 | Ramanadhi Reservoir Ramanadhi | Ramanadhi | -do- | 4.30 | 4.30 | - |
| 28 | Karuppanadhi Reservoir | Karuppanadha | -do- | 5.24 | 5.24 | - |
| 29 | Gundar Reservoir | Gundar | -do- | 0.71 | 0.71 | - |

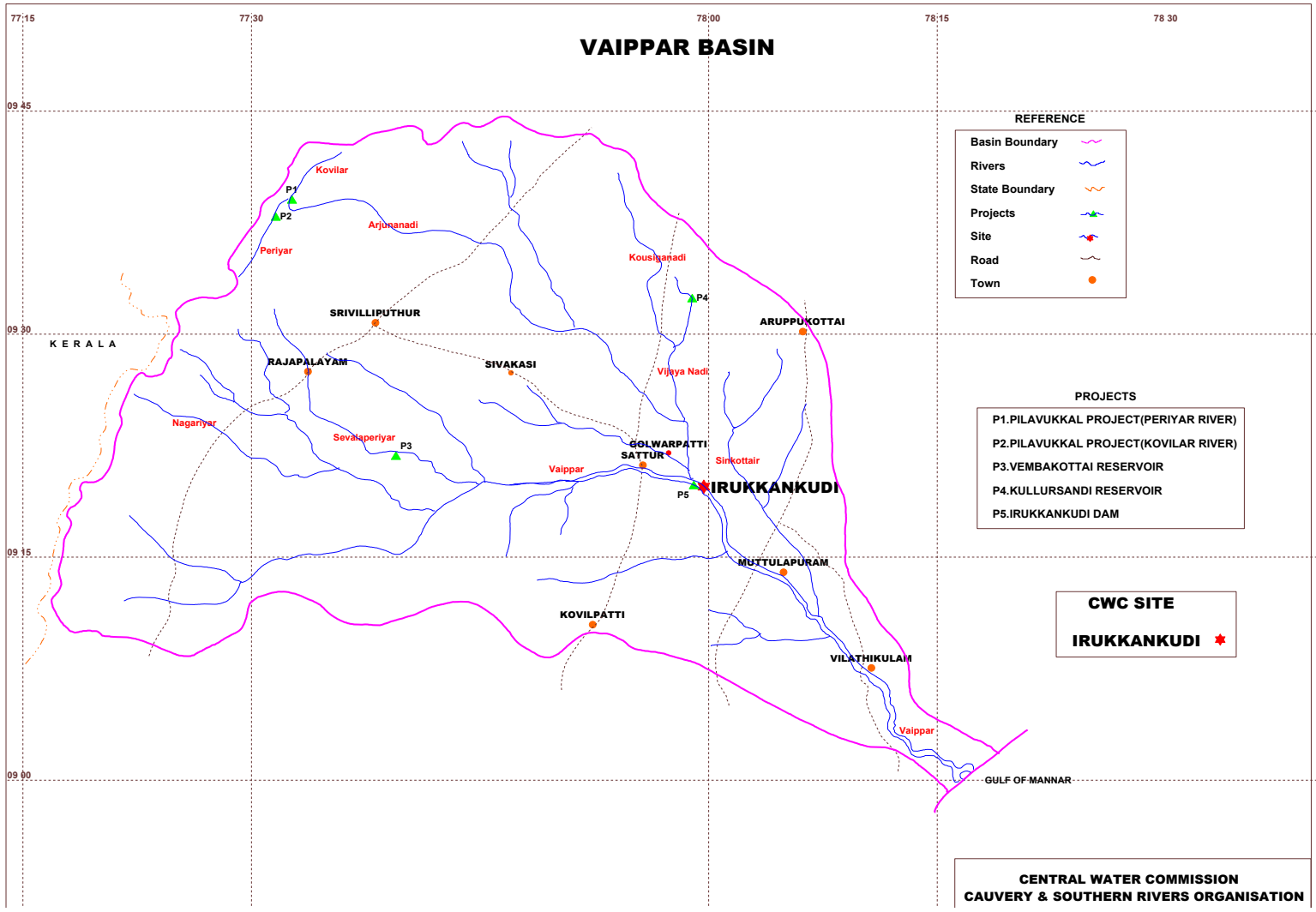

PALAR BASIN
PROJECTS EXISTING
P1. Uttirumerur Anicut
P2. Cheyyar Anicut
P3. Aliabad Anicut
P4. Palar Anicut
P5. Ponnai Anicut
P6. Thandarai Anicut
P7. Kamandalar Anicut
P8.Chengam Anicut
P9. Bethamangala Storage
KARNATAKA
ANDHRA PRADESH
Kolar
Chittoor
Gudiyattam
Vellore
Arocot
Kanchipuram
Vaniyambadi
Arani
Cheyar
Palar
Kaundinyanadhi
Ponnaiar
Katathaaru
Agaramaru
Naganadhi
Nirkundar
Kiliyar
BAY OF BE
10N
25N
34
35
P1
P2
P3
P4
P5
P6
P7
P8
P9
SITES UNDER CWC
SL.NO. SITE NO NAME OF THE SITE RIVER CATCHMENT AREA
1. 10N AVARAMKUPPAM PALAR 3300 SQ.KM
2. 25N CHENGALPATTU " 16230 "
3. 34 MAGARAL CHEYYAR 1803 "
4. 35 ARCOT PALAR 10294 "
LEGEND
Basin Boundary
River
Sites
State Boundary
Projects
Town
CENTRAL WATER COMMISSION
CAUVERY & SOUTHERN RIVERS ORGANISATI
COIMBATORE

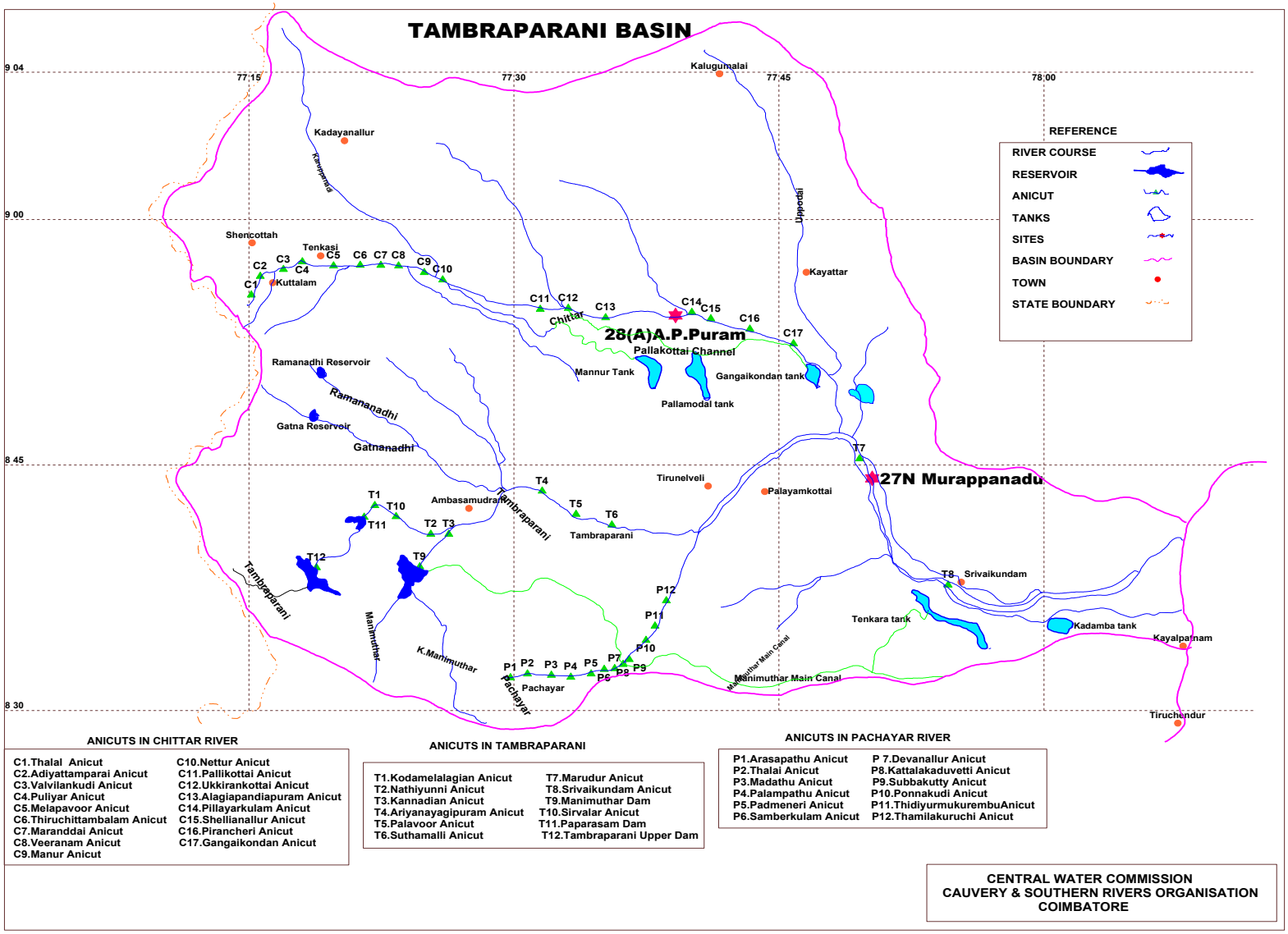

PENNAR BASIN
PROJECTS
P1. Jayamangali Anicut
P2. Pennar Kumudvati Project
P3. Vidyaranyaswamygudi Project
P4. Paragodu Project
P5. Maddileru Projecct
P6. Paranapalli Balancing Reservoir
P7. Chitravathi Anicut
P8. Upper Pennar Project
P9. Pennar Ahobilam Balancing Project
P10. Mid-Pennar Project
P11. Mylavaram Dam
P12. Zurreru Anicut
P13. Santajutur Anicut
P14. Rajoli Anicut
P15. Chennarayaswamygudi Anicut
P16.Pedderu Project
P17.Velligallu Project
P18.Adinimmayapalli Anicut
P19.Buggavanka Project
P20.Bahuda Project
P21.Siddalagandi Project
P22.Pincha Project
P23.Annamaiah Project
P24.Upper Sagileru Project
P25.Lower Sagileru Project
P26.Somasila Project
P27.Sangam Project
P28.Nellore Anicut
G & D SITES
1. Nellore
2. Chennur
3. Nandipalli
4. Kamalapuram
5. Alladupalli
6. Singavaram
7. Tadpatri
8. Nagalamadike
REFERENCE
Basin Boundary
River
Projects
Sites
state Boundary
Town
ANDHRA
KARNATAKA
Bengonapatti
Sirvel
Kolimgunda
Kunderu
Sagileru
Tadapatri
Singavaram
Kondapuram
Alladupalli
Nandipalli
Anantapur
Chithravati
Kamalapuram
Cuddapah
Chennur
Pennar
Nellore
Papagni
Cheyyaru
Rajampet
Nagalamadike
Ponukonda
Kondakmorle
Kodiri
Reyochoti
Kuppam
Madhugiri
Chitmoni
CENTRAL WATER COMMISSION
CAUVERY & SOUTHER RIVERS ORGANISATION
COIMBATORE


PONNAIYAR BASIN
PROJECTS(EXISTING)
P1. Sornavur Anicut
P2. Ellischoultry Anicut
P3. Tirukoyilur Anicut
P4. Sathanur Anicut
P5. Sattanur Reservoir
P6. Pamba Anicut
P7. Nedungal Anicut
P8. Krishnagiri Reservoir
PROJECTS UNDER EXCUTION
P9. Vaniiyar Reservoir
P10. Ichmbadi Anicut
G & D SITES UNDER STATE PWD
P2. Ellischoultry Anicut
P3. Tirukoyiour Anicut
P4. Sattanur Anicut
P5. Sattanur Reservoir
P6. Pamba Anicut
P7. Nedungal Anicut
P8. Krishnagiri Reservoir
P10. Ichambadi Anicut
SITES UNDER CWC
River : Ponnaiyar
Site No. 9N Gummanur
Catchment Area: 4,620 Sq.Km
Site no. 26N Vazhavachanur
Catchment Area: 10,780 Sq.Km
Site No. 36 Villupuram
Catchment Area: 12,900 Sq.Km
REFERENCE
RIVER COURSE .....
RESERVOIR ....
ANICUT/WEIR/DAM .....
SITES UNDER CWC .....
BASIN BOUNDARY .....
STATE BOUNDARY .....
TOWN .....
9N
P8
Krishnagiri Reservoir
P7
P6
P10
P5
Sathanur Reservoir
Ponniyar
P4
P9
26N
P3
Ponniyar
P2
36
P1
CENTRAL WATER COMMISSION
CAUVERY & SOUTHERN RIVERS ORGANISATION
COIMBATORE


VAIGAI BASIN
77 15
77 30
78 00
78 30
78 45
10 15
10 00
09 45
09 30
REFERENCE
RIVER
RESERVOIR
SITES
PROJECTS
TANKS
TOWN
STATE BOUNDARY
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
NILAKOTTAI
PERIYAKULAM
VAIGAI
BODINAICKNUR
THENI
23N
SURILIYAR
AMBASUMUDRAM
CANAL
MELUR
MADURAI
SIVAGANGAI
UTHAMAPALAYAM
KAMBAM
MANAMADURAI
PARAMAKUDI
PERIYAR
PERIYAR-VAIGAI SYSTEM
GULF OF MANNAR
PROJECTS
P1. VAIGAI DAM
P2. PALANICHETTY ANICUT
P3. PARTHIBANUR REGULATOR
P4. VIRAGANUR REGULATOR
P5. PERANAI REGULATOR
P6. RAMNADU BIG TANK
P7. MARUDHANADI RESERVOIR
P8. MANJALAR RESERVOIR
P9. SOTHUPARAI RESERVOIR
P10.KAMBAM VALLEY
CWC SITES
1. 23N THENI
2. AMBASAMUDRAM
3. 33 PARAMAKUDI
CENTRAL WATER COMMISSION
CAUVERY & SOUTHERN RIVERS ORGANISATION
COIMBATORE

# Plate-XVIII


VAIPPAR BASIN
77 15
77 30
78 00
78 15
78 30
09 45
09 30
09 15
09 00
REFERENCE
Basin Boundary
Rivers
State Boundary
Projects
Site
Road
Town
PROJECTS
P1.PILAVUKKAL PROJECT(PERIYAR RIVER)
P2.PILAVUKKAL PROJECT(KOVILAR RIVER)
P3.VEMBAKOTTAI RESERVOIR
P4.KULLURSANDI RESERVOIR
P5.IRUKKANKUDI DAM
CWC SITE
IRUKKANKUDI
CENTRAL WATER COMMISSION
CAUVERY & SOUTHERN RIVERS ORGANISATION
Kovilar
P1
P2
Periyar
Arjunanadi
Kousiganadi
P4
SRIVILLIPUTHUR
ARUPPUKOTTAI
KERALA
RAJAPALAYAM
SIVAKASI
Vijaya Nadi
Nagariyar
Sevalaperiyar
P3
GOLWARPATTI
SATTUR
Sinkottair
Vaippar
P5
IRUKKANKUDI
MUTTULAPURAM
KOVILPATTI
VILATHIKULAM
Vaippar
GULF OF MANNAR


TAMBRAPARANI BASIN
9 04
9 00
8 45
8 30
77 15
77 30
77 45
78 00
Kalugumalai
Kadayanallur
Kovilpatti
Uppodai
Shencottah
Tenkasi
Kuttalam
Kayattar
C1 C2 C3 C4 C5 C6 C7 C8 C9 C10
C11 C12 C13 C14 C15 C16 C17
Chittar
28(A)A.P.Puram
Pallakottai Channel
Mannur Tank
Gangaikondan tank
Pallamodal tank
Ramanadhi Reservoir
Ramananadhi
Gatna Reservoir
Gatnanadhi
T7
27N Murappanadu
Tirunelveli
Palayamkottai
T1 T10 T11 T2 T3 T4 T5 T6
Ambasamudram
Tambraparani
Tambraparani
T12 T9
Manimuthar
K.Manimuthar
T8 Srivaikundam
Tenkara tank
Kadamba tank
Kayalpatnam
P12 P11 P10 P9 P8 P7 P6 P5 P4 P3 P2 P1
Pachayar
Manimuthar Main Canal
Tiruchendur
REFERENCE
RIVER COURSE
RESERVOIR
ANICUT
TANKS
SITES
BASIN BOUNDARY
TOWN
STATE BOUNDARY
ANICUTS IN CHITTAR RIVER
C1.Thalal Anicut
C2.Adiyattamparai Anicut
C3.Valvilankudi Anicut
C4.Puliyar Anicut
C5.Melapavoor Anicut
C6.Thiruchittambalam Anicut
C7.Maranddai Anicut
C8.Veeranam Anicut
C9.Manur Anicut
C10.Nettur Anicut
C11.Pallikottai Anicut
C12.Ukkirankottai Anicut
C13.Alagiapandiapuram Anicut
C14.Pillayarkulam Anicut
C15.Shellianallur Anicut
C16.Pirancheri Anicut
C17.Gangaikondan Anicut
ANICUTS IN TAMBRAPARANI
T1.Kodamelalagian Anicut
T2.Nathiyunni Anicut
T3.Kannadian Anicut
T4.Ariyanayagipuram Anicut
T5.Palavoor Anicut
T6.Suthamalli Anicut
T7.Marudur Anicut
T8.Srivaikundam Anicut
T9.Manimuthar Dam
T10.Sirvalar Anicut
T11.Paparasam Dam
T12.Tambraparani Upper Dam
ANICUTS IN PACHAYAR RIVER
P1.Arasapathu Anicut
P2.Thalai Anicut
P3.Madathu Anicut
P4.Palampathu Anicut
P5.Padmeneri Anicut
P6.Samberkulam Anicut
P 7.Devanallur Anicut
P8.Kattalakaduvetti Anicut
P9.Subbakutty Anicut
P10.Ponnakudi Anicut
P11.Thidiyurmukurembu Anicut
P12.Thamilakuruchi Anicut
CENTRAL WATER COMMISSION
CAUVERY & SOUTHERN RIVERS ORGANISATION
COIMBATORE

(केवल कार्यालय उपयोग हेतु)
(FOR OFFICE USE ONLY)

# वार्षिक जल पुस्तिका
# WATER YEAR BOOK
## (जून 2015 – मई 2016)
## (JUNE 2015 - MAY 2016)
# पूरब प्रवाही नदियाँ बेसिन
# EAST FLOWING RIVERS BASIN
## निलंबित गाद आँकड़ा
## Suspended Sediment Data





कावेरी एवं दक्षिणी नदियाँ परिमण्डल, बेंगलूरू
**CAUVERY & SOUTHERN RIVERS CIRCLE, BENGALURU**
कावेरी एवं दक्षिणी नदियाँ संगठन, कोयंबतूर
**CAUVERY & SOUTHERN RIVERS ORGANISATION, COIMBATORE**



मार्च - 2017
**MARCH - 2017**

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**Annual Sediment Load for period : 2008-2016**

**Station Name : MARELLA ( AU000E5)** **Division : Lower Krishna Divn., Hyderabad**

**Local River : Gundlakamma** **Sub-Division : Lower Krishna SD 1, N.S.Dam**

| Year | Monsoon (M.T.) | Non-Monsoon (M.T.) | Annual Load (M.T.) | Annual Run Off (MCM) |
|---|---|---|---|---|
| **2008-2009** | 43145 | 15494 | 58639 | 812 |
| **2009-2010** | 54496 | 166352 | 220848 | 698 |
| **2010-2011** | 72130 | 14795 | 86926 | 1470 |
| **2011-2012** | 8368 | 2535 | 10903 | 465 |
| **2012-2013** | 31955 | 0 | 31955 | 109 |
| **2013-2014** | 100103 | 8188 | 108290 | 978 |
| **2014-2015** | 17742 | 4346 | 22088 | 354 |
| **2015-2016** | 1340 | 0 | 1340 | 12 |

## Daily Observed Sediment Datasheet for period : 2015-2016

**Station Name : MARELLA ( AU000E5)** **Division : Lower Krishna Divn., Hyderabad**

**Local River : Gundlakamma** **Sub-Division : Lower Krishna SD 1, N.S.Dam**

| Day | Jun | | | | | | Jul | | | | | | Aug | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day |
| 1 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 3.293 | 0.000 | 0.000 | 0.043 | 0.043 | 12 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 2 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 3.009 | 0.000 | 0.000 | 0.059 | 0.059 | 15 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 3 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 2.915 | 0.000 | 0.000 | 0.039 | 0.039 | 10 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 4 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 2.062 | 0.000 | 0.000 | 0.046 | 0.046 | 8 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 1.615 | 0.000 | 0.000 | 0.035 | 0.035 | 5 | 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 | 1.543 | 0.000 | 0.000 | 0.013 | 0.013 | 2 |
| 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 | 2.038 | 0.000 | 0.000 | 0.042 | 0.042 | 7 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.490 | 0.000 | 0.000 | 0.015 | 0.015 | 1 |
| 22 | 3.606 | 0.000 | 0.000 | 0.053 | 0.053 | 17 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 18.37 | 0.000 | 0.000 | 0.277 | 0.277 | 440 |
| 23 | 3.155 | 0.000 | 0.000 | 0.042 | 0.042 | 11 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 18.80 | 0.000 | 0.000 | 0.210 | 0.210 | 341 |
| 24 | 3.150 | 0.000 | 0.000 | 0.063 | 0.063 | 17 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 3.130 | 0.000 | 0.000 | 0.222 | 0.222 | 60 |
| 25 | 3.143 | 0.000 | 0.000 | 0.061 | 0.061 | 16 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 4.142 | 0.000 | 0.000 | 0.061 | 0.061 | 22 |
| 26 | 2.987 | 0.000 | 0.000 | 0.053 | 0.053 | 14 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 1.722 | 0.000 | 0.000 | 0.050 | 0.050 | 7 |
| 27 | 2.945 | 0.000 | 0.000 | 0.031 | 0.031 | 8 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 1.665 | 0.000 | 0.000 | 0.043 | 0.043 | 6 |
| 28 | 3.130 | 0.000 | 0.000 | 0.057 | 0.057 | 15 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 1.762 | 0.000 | 0.000 | 0.079 | 0.079 | 12 |
| 29 | 2.960 | 0.000 | 0.000 | 0.025 | 0.025 | 6 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 30 | 2.911 | 0.000 | 0.000 | 0.026 | 0.026 | 7 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.603 | 0.000 | 0.000 | 0.017 | 0.017 | 1 |
| 31 | | | | | | | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.032 | 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 | 1.289 | 0.000 | 0.000 | 0.022 | 0.022 | 5 | 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 | 0.154 | 0.000 | 0.000 | 0.001 | 0.001 | 0 |
| Ten Daily III | 3.003 | 0.000 | 0.000 | 0.045 | 0.045 | 12 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 4.611 | 0.000 | 0.000 | 0.088 | 0.088 | 81 |
| Monthly | | | | | | | | | | | | | | | | | | |
| Total | | | | | | 119 | | | | | | 50 | | | | | | 891 |

**Annual Sediment Load (Metric Tonnes) : 1340**

## Daily Observed Sediment Datasheet for period : 2015-2016

**Station Name : MARELLA ( AU000E5)** **Division : Lower Krishna Divn., Hyderabad**

**Local River : Gundlakamma** **Sub-Division : Lower Krishna SD 1, N.S.Dam**

| Day | Sep | | | | | | Oct | | | | | | Nov | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day |
| 1 | 0.032 | 0.000 | 0.000 | 0.000 | 0.000 | 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 | 0.027 | 0.000 | 0.000 | 0.000 | 0.000 | 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 | 8.613 | 0.000 | 0.000 | 0.046 | 0.046 | 34 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 7 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 6.555 | 0.000 | 0.000 | 0.050 | 0.050 | 28 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 8 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 2.613 | 0.000 | 0.000 | 0.088 | 0.088 | 20 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 9 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 2.563 | 0.000 | 0.000 | 0.090 | 0.090 | 20 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 10 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 1.573 | 0.000 | 0.000 | 0.154 | 0.154 | 21 | 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 | 2.363 | 0.000 | 0.000 | 0.046 | 0.046 | 9 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 14 | 1.670 | 0.000 | 0.000 | 0.109 | 0.109 | 16 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 15 | 7.123 | 0.000 | 0.000 | 0.099 | 0.099 | 61 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 16 | 3.397 | 0.000 | 0.000 | 0.048 | 0.048 | 14 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 17 | 3.349 | 0.000 | 0.000 | 0.060 | 0.060 | 17 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 18 | 3.265 | 0.000 | 0.000 | 0.066 | 0.066 | 19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 19 | 3.192 | 0.000 | 0.000 | 0.073 | 0.073 | 20 | 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 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 2.192 | 0.000 | 0.000 | 0.043 | 0.043 | 12 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| Ten Daily II | 2.436 | 0.000 | 0.000 | 0.050 | 0.050 | 16 | 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 | | | | | | 156 | | | | | | 123 | | | | | | 0 |

**Annual Sediment Load (Metric Tonnes) : 1340**

## Daily Observed Sediment Datasheet for period : 2015-2016

**Station Name : MARELLA ( AU000E5)** **Division : Lower Krishna Divn., Hyderabad**

**Local River : Gundlakamma** **Sub-Division : Lower Krishna SD 1, N.S.Dam**

| Day | Dec | | | | | | Jan | | | | | | Feb | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total 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 | | | | | | |
| 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) : 1340**

## Daily Observed Sediment Datasheet for period : 2015-2016

**Station Name : MARELLA ( AU000E5)** **Division : Lower Krishna Divn., Hyderabad**

**Local River : Gundlakamma** **Sub-Division : Lower Krishna SD 1, N.S.Dam**

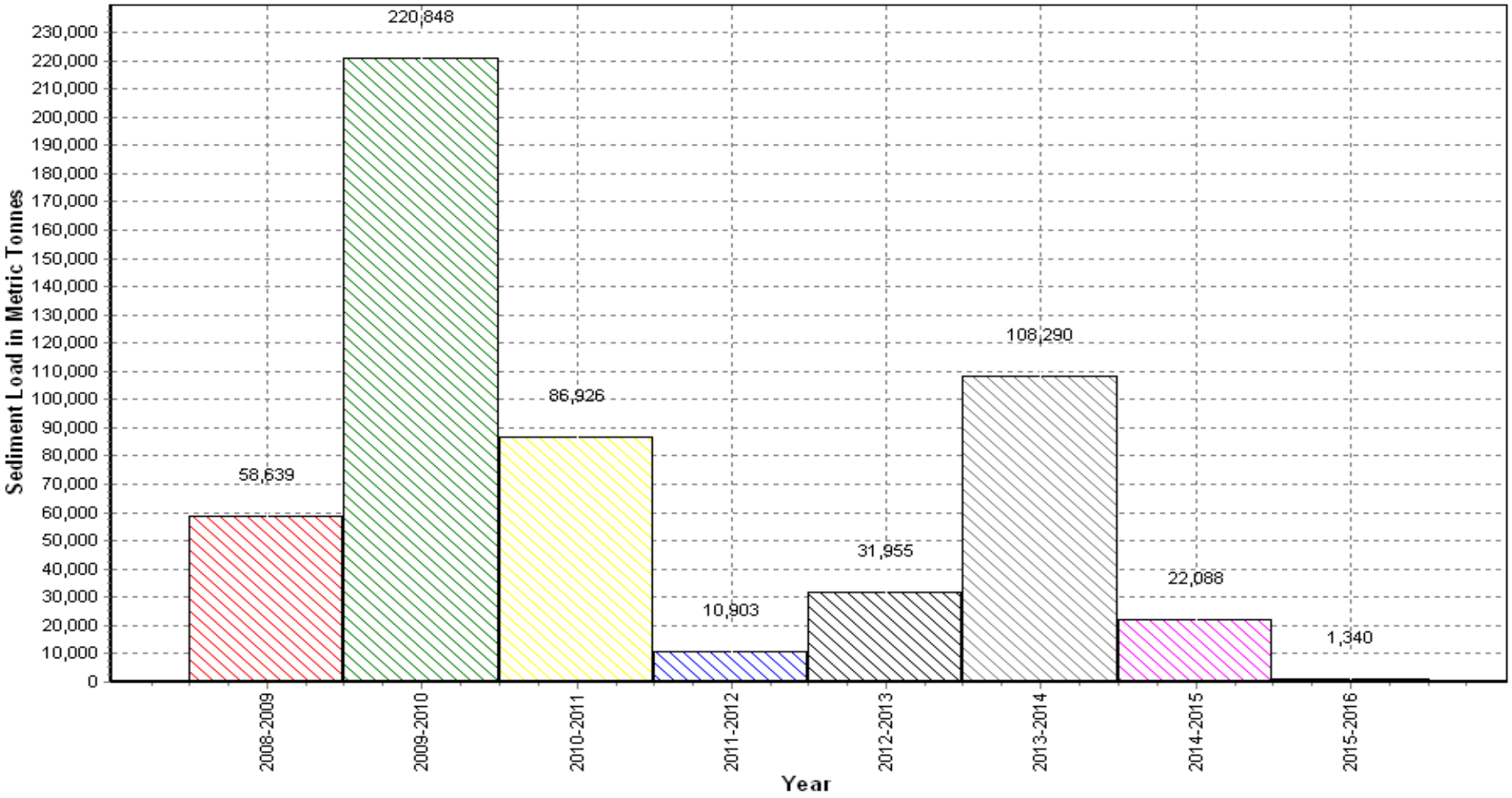
| Day | Mar | | | | | | Apr | | | | | | May | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total 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) : 1340**

**Annual Sediment Load for the period: 2008-2016**

**Station Name : MARELLA ( AU000E5)**
**Local River : Gundlakamma**

**Division : Lower Krishna Divn., Hyderabad**
**Sub-Division : Lower Krishna SD 1, N.S.Dam**



**Seasonal Sediment Load for the period : 2008-2015**

**Station Name : MARELLA ( AU000E5)**
**Local River : Gundlakamma**

**Division : Lower Krishna Divn., Hyderabad**
**Sub-Division : Lower Krishna SD 1, N.S.Dam**

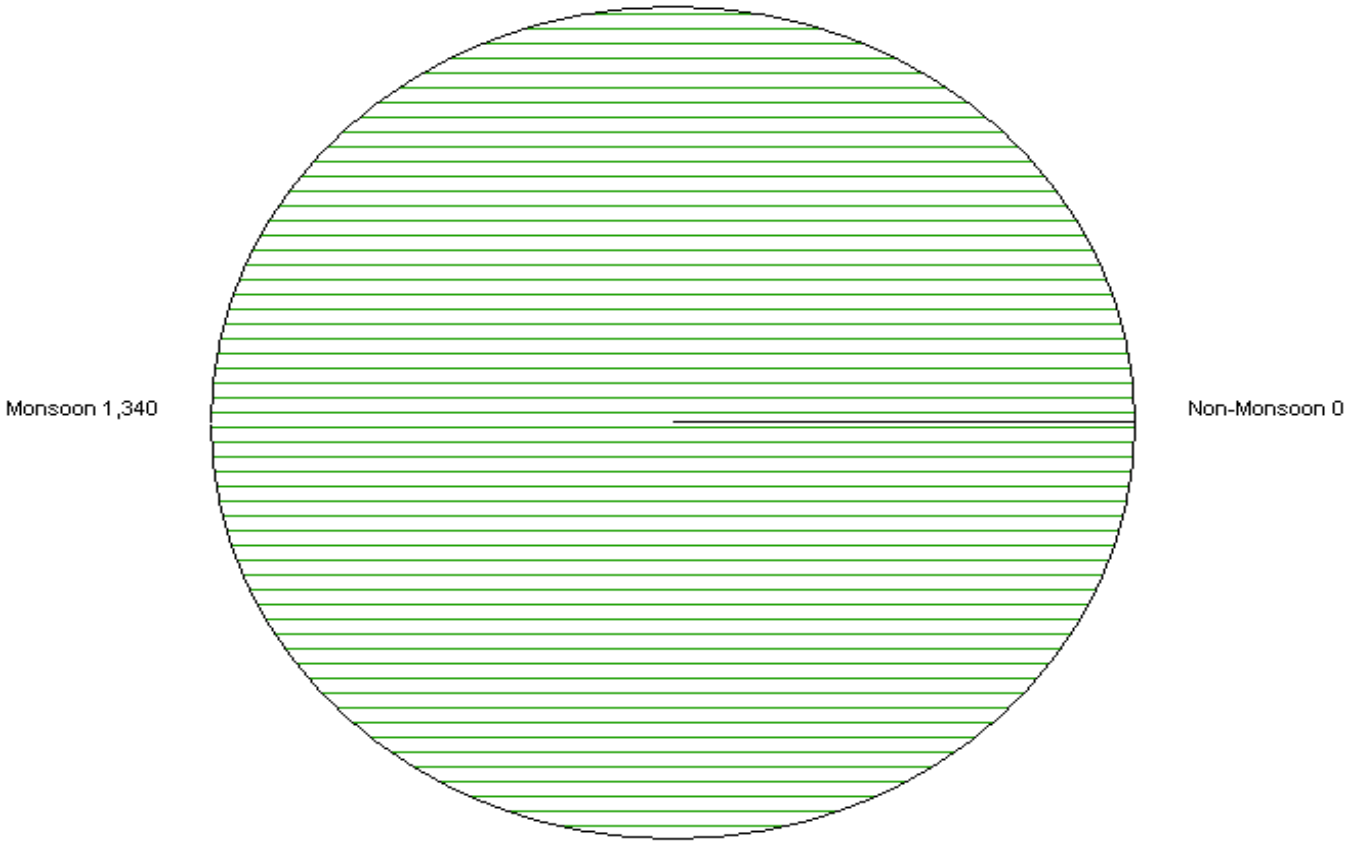


**Seasonal Sediment Load for the Year: 2015-2016**

**Station Name : MARELLA ( AU000E5)**
**Local River : Gundlakamma**

**Division : Lower Krishna Divn., Hyderabad**
**Sub-Division : Lower Krishna SD 1, N.S.Dam**

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# BED MATERIAL ANALYSIS DATA FOR THE YEAR 2015-16

**RIVER :** *Gundlakamma* **CODE :** *AU000E5*

**SITE :** *Marella* **CROSS SECTION : SGL**

| SL. NO. | DATA FOR SAMPLE COLLECTED | | | | | | | | | | GENERAL DATA OF THE RIVER | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Bed Material | | | | | | | Bed | |
| | R.D.(m) | R.L. OF DRY BED (m) | R.L. OF BED LEVEL (m) | W.L. (GTS) OF THE SAMPLING DEPTH (m) | DEPTH OF WATER (m) | WIDTH (m) | VELOCITY (m/Sec) | DISCHARGE ($m^3$/Sec) | MAX SIZE (mm) | MEAN SIZE (mm) | WETTED PERIMETER (m) | HYDRULIC MEAN DEPTH (m) | MEAN VELOCITY (m/Sec) | SURFACE WATER SLOPE (S) | DISCHARGE ($m^3$/Sec) | MAX SIZE (mm) | MEAN SIZE (mm) |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| PRE -MONSOON - 2015 | | | | | | DATE OF COLLECTION | | | | | | | | | | 14/05/2015 | |
| 1 | 50 | - | 34.940 | | - | - | - | - | 0.60 | 0.59 | | | | | | | |
| 2 | 100 | - | 32.740 | Dry bed | - | - | - | - | 0.60 | 0.46 | - | - | - | - | | 11 | 0.4 |
| 3 | 150 | - | 29.100 | | - | - | - | - | 11.00 | 1.83 | | | | | | | |
| 4 | 200 | - | 29.700 | | - | - | - | - | 10.00 | 2.19 | | | | | | | |
| 5 | 250 | - | 33.014 | | - | - | - | - | 0.60 | 0.40 | | | | | | | |
| MONSOON - 2015 | | | | | | DATE OF COLLECTION | | | | | | | | | | | |
| Survey not conducted | | | | | | | | | | | | | | | | | |
| POST- MONSOON- 2015 | | | | | | DATE OF COLLECTION | | | | | | | | | | 28/12/2015 | |
| 1 | 50 | - | 34.960 | | - | - | - | - | 0.60 | 0.65 | | | | | | | |
| 2 | 100 | - | 32.760 | | - | - | - | - | 0.60 | 0.58 | | | | | | | |
| 3 | 150 | - | 29.114 | Dry bed | - | - | - | - | 18.00 | 2.23 | - | - | - | - | - | 18.0 | 0.5 |
| 4 | 200 | - | 29.730 | | - | - | - | - | 16.00 | 4.41 | | | | | | | |
| 5 | 250 | - | 33.03 | | - | - | - | - | 0.60 | 0.52 | | | | | | | |

Minimum size of Bed Material Composition is 0.06 mm

**Annual Sediment Load for period : 2014-2016**

**Station Name : Nellore ( AP000A6)** **Division : Hydrology Division, Chennai**

**Local River : Pennar** **Sub-Division : PSD, Kadapa**

| Year | Monsoon (M.T.) | Non-Monsoon (M.T.) | Annual Load (M.T.) | Annual Run Off (MCM) |
|---|---|---|---|---|
| **2014-2015** | 47 | 423 | 470 | 9 |
| **2015-2016** | 29847 | 4115 | 33962 | 1683 |

## Daily Observed Sediment Datasheet for period : 2015-2016

**Station Name : Nellore ( AP000A6)** **Division : Hydrology Division, Chennai**

**Local River : Pennar** **Sub-Division : PSD, Kadapa**

| Day | Jun | | | | | | Jul | | | | | | Aug | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day |
| 1 | 0.263 | 0.000 | 0.000 | 0.015 | 0.015 | 0 | 0.247 | 0.000 | 0.000 | 0.014 | 0.014 | 0 | 0.194 | 0.000 | 0.000 | 0.011 | 0.011 | 0 |
| 2 | 0.214 | 0.000 | 0.000 | 0.012 | 0.012 | 0 | 0.224 | 0.000 | 0.000 | 0.012 | 0.012 | 0 | 0.165 | 0.000 | 0.000 | 0.009 | 0.009 | 0 |
| 3 | 0.228 | 0.000 | 0.000 | 0.013 | 0.013 | 0 | 0.221 | 0.000 | 0.000 | 0.012 | 0.012 | 0 | 0.187 | 0.000 | 0.000 | 0.010 | 0.010 | 0 |
| 4 | 0.230 | 0.000 | 0.000 | 0.013 | 0.013 | 0 | 0.239 | 0.000 | 0.000 | 0.013 | 0.013 | 0 | 0.189 | 0.000 | 0.000 | 0.010 | 0.010 | 0 |
| 5 | 0.228 | 0.000 | 0.000 | 0.013 | 0.013 | 0 | 0.217 | 0.000 | 0.000 | 0.012 | 0.012 | 0 | 0.176 | 0.000 | 0.000 | 0.010 | 0.010 | 0 |
| 6 | 0.275 | 0.000 | 0.000 | 0.015 | 0.015 | 0 | 0.193 | 0.000 | 0.000 | 0.011 | 0.011 | 0 | 0.175 | 0.000 | 0.000 | 0.010 | 0.010 | 0 |
| 7 | 0.257 | 0.000 | 0.000 | 0.014 | 0.014 | 0 | 0.189 | 0.000 | 0.000 | 0.010 | 0.010 | 0 | 0.127 | 0.000 | 0.000 | 0.007 | 0.007 | 0 |
| 8 | 0.284 | 0.000 | 0.000 | 0.016 | 0.016 | 0 | 0.183 | 0.000 | 0.000 | 0.010 | 0.010 | 0 | 0.219 | 0.000 | 0.000 | 0.012 | 0.012 | 0 |
| 9 | 0.276 | 0.000 | 0.000 | 0.015 | 0.015 | 0 | 0.159 | 0.000 | 0.000 | 0.009 | 0.009 | 0 | 0.178 | 0.000 | 0.000 | 0.010 | 0.010 | 0 |
| 10 | 0.290 | 0.000 | 0.000 | 0.016 | 0.016 | 0 | 0.221 | 0.000 | 0.000 | 0.012 | 0.012 | 0 | 0.149 | 0.000 | 0.000 | 0.008 | 0.008 | 0 |
| 11 | 0.284 | 0.000 | 0.000 | 0.016 | 0.016 | 0 | 0.198 | 0.000 | 0.000 | 0.011 | 0.011 | 0 | 0.295 | 0.000 | 0.000 | 0.016 | 0.016 | 0 |
| 12 | 0.313 | 0.000 | 0.000 | 0.015 | 0.015 | 0 | 0.205 | 0.000 | 0.000 | 0.011 | 0.011 | 0 | 0.193 | 0.000 | 0.000 | 0.011 | 0.011 | 0 |
| 13 | 0.311 | 0.000 | 0.000 | 0.017 | 0.017 | 0 | 0.200 | 0.000 | 0.000 | 0.011 | 0.011 | 0 | 0.155 | 0.000 | 0.000 | 0.009 | 0.009 | 0 |
| 14 | 0.317 | 0.000 | 0.000 | 0.018 | 0.018 | 0 | 0.195 | 0.000 | 0.000 | 0.011 | 0.011 | 0 | 0.154 | 0.000 | 0.000 | 0.009 | 0.009 | 0 |
| 15 | 0.349 | 0.000 | 0.000 | 0.019 | 0.019 | 1 | 0.293 | 0.000 | 0.000 | 0.016 | 0.016 | 0 | 0.153 | 0.000 | 0.000 | 0.008 | 0.008 | 0 |
| 16 | 0.317 | 0.000 | 0.000 | 0.018 | 0.018 | 0 | 0.224 | 0.000 | 0.000 | 0.012 | 0.012 | 0 | 0.165 | 0.000 | 0.000 | 0.009 | 0.009 | 0 |
| 17 | 0.273 | 0.000 | 0.000 | 0.015 | 0.015 | 0 | 0.217 | 0.000 | 0.000 | 0.012 | 0.012 | 0 | 0.156 | 0.000 | 0.000 | 0.009 | 0.009 | 0 |
| 18 | 0.301 | 0.000 | 0.000 | 0.017 | 0.017 | 0 | 0.248 | 0.000 | 0.000 | 0.014 | 0.014 | 0 | 0.189 | 0.000 | 0.000 | 0.010 | 0.010 | 0 |
| 19 | 0.308 | 0.000 | 0.000 | 0.017 | 0.017 | 0 | 0.219 | 0.000 | 0.000 | 0.012 | 0.012 | 0 | 0.165 | 0.000 | 0.000 | 0.009 | 0.009 | 0 |
| 20 | 0.313 | 0.000 | 0.000 | 0.017 | 0.017 | 0 | 0.188 | 0.000 | 0.000 | 0.010 | 0.010 | 0 | 0.109 | 0.000 | 0.000 | 0.006 | 0.006 | 0 |
| 21 | 0.302 | 0.000 | 0.000 | 0.017 | 0.017 | 0 | 0.219 | 0.000 | 0.000 | 0.012 | 0.012 | 0 | 0.336 | 0.000 | 0.000 | 0.019 | 0.019 | 1 |
| 22 | 0.307 | 0.000 | 0.000 | 0.017 | 0.017 | 0 | 0.205 | 0.000 | 0.000 | 0.011 | 0.011 | 0 | 0.837 | 0.000 | 0.000 | 0.046 | 0.046 | 3 |
| 23 | 0.309 | 0.000 | 0.000 | 0.017 | 0.017 | 0 | 0.201 | 0.000 | 0.000 | 0.011 | 0.011 | 0 | 24.38 | 0.000 | 0.000 | 1.345 | 1.345 | 2832 |
| 24 | 0.284 | 0.000 | 0.000 | 0.016 | 0.016 | 0 | 0.189 | 0.000 | 0.000 | 0.010 | 0.010 | 0 | 1.143 | 0.000 | 0.000 | 0.063 | 0.063 | 6 |
| 25 | 0.276 | 0.000 | 0.000 | 0.015 | 0.015 | 0 | 0.185 | 0.000 | 0.000 | 0.010 | 0.010 | 0 | 0.324 | 0.000 | 0.000 | 0.018 | 0.018 | 1 |
| 26 | 0.284 | 0.000 | 0.000 | 0.016 | 0.016 | 0 | 0.191 | 0.000 | 0.000 | 0.011 | 0.011 | 0 | 0.176 | 0.000 | 0.000 | 0.010 | 0.010 | 0 |
| 27 | 0.306 | 0.000 | 0.000 | 0.017 | 0.017 | 0 | 0.193 | 0.000 | 0.000 | 0.011 | 0.011 | 0 | 2.834 | 0.000 | 0.000 | 0.156 | 0.156 | 38 |
| 28 | 0.286 | 0.000 | 0.000 | 0.016 | 0.016 | 0 | 0.162 | 0.000 | 0.000 | 0.009 | 0.009 | 0 | 0.699 | 0.000 | 0.000 | 0.039 | 0.039 | 2 |
| 29 | 0.271 | 0.000 | 0.000 | 0.015 | 0.015 | 0 | 0.174 | 0.000 | 0.000 | 0.010 | 0.010 | 0 | 0.315 | 0.000 | 0.000 | 0.017 | 0.017 | 0 |
| 30 | 0.202 | 0.000 | 0.000 | 0.011 | 0.011 | 0 | 0.161 | 0.000 | 0.000 | 0.009 | 0.009 | 0 | 0.201 | 0.000 | 0.000 | 0.011 | 0.011 | 0 |
| 31 | | | | | | | 0.166 | 0.000 | 0.000 | 0.009 | 0.009 | 0 | 0.151 | 0.000 | 0.000 | 0.008 | 0.008 | 0 |
| Ten Daily Mean | | | | | | | | | | | | | | | | | | |
| Ten Daily I | 0.254 | 0.000 | 0.000 | 0.014 | 0.014 | 0 | 0.209 | 0.000 | 0.000 | 0.012 | 0.012 | 0 | 0.176 | 0.000 | 0.000 | 0.010 | 0.010 | 0 |
| Ten Daily II | 0.309 | 0.000 | 0.000 | 0.017 | 0.017 | 0 | 0.219 | 0.000 | 0.000 | 0.012 | 0.012 | 0 | 0.173 | 0.000 | 0.000 | 0.010 | 0.010 | 0 |
| Ten Daily III | 0.283 | 0.000 | 0.000 | 0.016 | 0.016 | 0 | 0.186 | 0.000 | 0.000 | 0.010 | 0.010 | 0 | 2.854 | 0.000 | 0.000 | 0.157 | 0.157 | 262 |
| Monthly | | | | | | | | | | | | | | | | | | |
| Total | | | | | | 11 | | | | | | 6 | | | | | | 2887 |

**Annual Sediment Load (Metric Tonnes) : 33962**

## Daily Observed Sediment Datasheet for period : 2015-2016

**Station Name : Nellore ( AP000A6)** **Division : Hydrology Division, Chennai**

**Local River : Pennar** **Sub-Division : PSD, Kadapa**

| Day | Sep | | | | | | Oct | | | | | | Nov | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day |
| 1 | 0.167 | 0.000 | 0.000 | 0.009 | 0.009 | 0 | 0.093 | 0.000 | 0.000 | 0.005 | 0.005 | 0 | 0.088 | 0.000 | 0.000 | 0.005 | 0.005 | 0 |
| 2 | 0.151 | 0.000 | 0.000 | 0.008 | 0.008 | 0 | 0.138 | 0.000 | 0.000 | 0.008 | 0.008 | 0 | 0.077 | 0.000 | 0.000 | 0.004 | 0.004 | 0 |
| 3 | 0.147 | 0.000 | 0.000 | 0.008 | 0.008 | 0 | 0.138 | 0.000 | 0.000 | 0.008 | 0.008 | 0 | 0.063 | 0.000 | 0.000 | 0.004 | 0.004 | 0 |
| 4 | 0.237 | 0.000 | 0.000 | 0.013 | 0.013 | 0 | 0.221 | 0.000 | 0.000 | 0.012 | 0.012 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 5 | 0.211 | 0.000 | 0.000 | 0.012 | 0.012 | 0 | 0.130 | 0.000 | 0.000 | 0.007 | 0.007 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 6 | 0.167 | 0.000 | 0.000 | 0.009 | 0.009 | 0 | 0.120 | 0.000 | 0.000 | 0.007 | 0.007 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 7 | 0.283 | 0.000 | 0.000 | 0.016 | 0.016 | 0 | 0.129 | 0.000 | 0.000 | 0.007 | 0.007 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 8 | 0.321 | 0.000 | 0.000 | 0.018 | 0.018 | 0 | 0.124 | 0.000 | 0.000 | 0.007 | 0.007 | 0 | 0.081 | 0.000 | 0.000 | 0.005 | 0.005 | 0 |
| 9 | 0.311 | 0.000 | 0.000 | 0.017 | 0.017 | 0 | 0.148 | 0.000 | 0.000 | 0.008 | 0.008 | 0 | 0.151 | 0.000 | 0.000 | 0.008 | 0.008 | 0 |
| 10 | 0.293 | 0.000 | 0.000 | 0.016 | 0.016 | 0 | 0.129 | 0.000 | 0.000 | 0.007 | 0.007 | 0 | 0.528 | 0.000 | 0.000 | 0.029 | 0.029 | 1 |
| 11 | 0.214 | 0.000 | 0.000 | 0.012 | 0.012 | 0 | 0.112 | 0.000 | 0.000 | 0.006 | 0.006 | 0 | 0.718 | 0.000 | 0.000 | 0.040 | 0.040 | 2 |
| 12 | 0.233 | 0.000 | 0.000 | 0.013 | 0.013 | 0 | 0.112 | 0.000 | 0.000 | 0.006 | 0.006 | 0 | 836.3 | 0.000 | 0.007 | 0.017 | 0.025 | 1777 |
| 13 | 0.221 | 0.000 | 0.000 | 0.012 | 0.012 | 0 | 0.142 | 0.000 | 0.000 | 0.008 | 0.008 | 0 | 763.4 | 0.000 | 0.008 | 0.009 | 0.017 | 1128 |
| 14 | 0.169 | 0.000 | 0.000 | 0.009 | 0.009 | 0 | 0.119 | 0.000 | 0.000 | 0.007 | 0.007 | 0 | 509.0 | 0.000 | 0.012 | 0.013 | 0.025 | 1095 |
| 15 | 0.169 | 0.000 | 0.000 | 0.009 | 0.009 | 0 | 0.119 | 0.000 | 0.000 | 0.007 | 0.007 | 0 | 438.3 | 0.000 | 0.014 | 0.013 | 0.027 | 1030 |
| 16 | 0.128 | 0.000 | 0.000 | 0.007 | 0.007 | 0 | 0.094 | 0.000 | 0.000 | 0.005 | 0.005 | 0 | 495.2 | 0.000 | 0.006 | 0.007 | 0.013 | 543 |
| 17 | 0.148 | 0.000 | 0.000 | 0.008 | 0.008 | 0 | 0.080 | 0.000 | 0.000 | 0.004 | 0.004 | 0 | 1388 | 0.000 | 0.007 | 0.001 | 0.008 | 948 |
| 18 | 0.150 | 0.000 | 0.000 | 0.008 | 0.008 | 0 | 0.081 | 0.000 | 0.000 | 0.005 | 0.005 | 0 | 921.2 | 0.000 | 0.007 | 0.001 | 0.008 | 653 |
| 19 | 0.142 | 0.000 | 0.000 | 0.009 | 0.009 | 0 | 0.081 | 0.000 | 0.000 | 0.005 | 0.005 | 0 | 814.6 | 0.000 | 0.006 | 0.001 | 0.007 | 486 |
| 20 | 0.129 | 0.000 | 0.000 | 0.007 | 0.007 | 0 | 0.083 | 0.000 | 0.000 | 0.005 | 0.005 | 0 | 690.7 | 0.000 | 0.261 | 0.001 | 0.262 | 15605 |
| 21 | 0.152 | 0.000 | 0.000 | 0.008 | 0.008 | 0 | 0.074 | 0.000 | 0.000 | 0.004 | 0.004 | 0 | 604.1 | 0.000 | 0.006 | 0.004 | 0.009 | 485 |
| 22 | 0.157 | 0.000 | 0.000 | 0.009 | 0.009 | 0 | 0.067 | 0.000 | 0.000 | 0.004 | 0.004 | 0 | 633.1 | 0.000 | 0.005 | 0.002 | 0.006 | 334 |
| 23 | 0.128 | 0.000 | 0.000 | 0.007 | 0.007 | 0 | 0.065 | 0.000 | 0.000 | 0.004 | 0.004 | 0 | 549.2 | 0.000 | 0.004 | 0.004 | 0.008 | 365 |
| 24 | 0.104 | 0.000 | 0.000 | 0.006 | 0.006 | 0 | 0.061 | 0.000 | 0.000 | 0.003 | 0.003 | 0 | 507.3 | 0.000 | 0.004 | 0.004 | 0.008 | 342 |
| 25 | 0.098 | 0.000 | 0.000 | 0.005 | 0.005 | 0 | 0.061 | 0.000 | 0.000 | 0.003 | 0.003 | 0 | 523.2 | 0.000 | 0.007 | 0.007 | 0.014 | 624 |
| 26 | 0.172 | 0.000 | 0.000 | 0.010 | 0.010 | 0 | 0.070 | 0.000 | 0.000 | 0.004 | 0.004 | 0 | 449.7 | 0.000 | 0.004 | 0.003 | 0.007 | 268 |
| 27 | 0.148 | 0.000 | 0.000 | 0.008 | 0.008 | 0 | 0.058 | 0.000 | 0.000 | 0.003 | 0.003 | 0 | 403.8 | 0.000 | 0.003 | 0.003 | 0.006 | 220 |
| 28 | 0.130 | 0.000 | 0.000 | 0.007 | 0.007 | 0 | 0.073 | 0.000 | 0.000 | 0.004 | 0.004 | 0 | 393.5 | 0.000 | 0.004 | 0.007 | 0.011 | 388 |
| 29 | 0.104 | 0.000 | 0.000 | 0.006 | 0.006 | 0 | 0.083 | 0.000 | 0.000 | 0.005 | 0.005 | 0 | 388.9 | 0.000 | 0.005 | 0.007 | 0.012 | 413 |
| 30 | 0.119 | 0.000 | 0.000 | 0.007 | 0.007 | 0 | 0.166 | 0.000 | 0.000 | 0.009 | 0.009 | 0 | 381.4 | 0.000 | 0.005 | 0.002 | 0.007 | 227 |
| 31 | | | | | | | 0.112 | 0.000 | 0.000 | 0.006 | 0.006 | 0 | | | | | | |
| Ten Daily Mean | | | | | | | | | | | | | | | | | | |
| Ten Daily I | 0.229 | 0.000 | 0.000 | 0.013 | 0.013 | 0 | 0.137 | 0.000 | 0.000 | 0.008 | 0.008 | 0 | 0.099 | 0.000 | 0.000 | 0.005 | 0.005 | 0 |
| Ten Daily II | 0.170 | 0.000 | 0.000 | 0.009 | 0.009 | 0 | 0.102 | 0.000 | 0.000 | 0.006 | 0.006 | 0 | 685.8 | 0.000 | 0.033 | 0.010 | 0.043 | 2327 |
| Ten Daily III | 0.131 | 0.000 | 0.000 | 0.007 | 0.007 | 0 | 0.081 | 0.000 | 0.000 | 0.004 | 0.004 | 0 | 483.4 | 0.000 | 0.005 | 0.004 | 0.009 | 367 |
| Monthly | | | | | | | | | | | | | | | | | | |
| Total | | | | | | 5 | | | | | | 2 | | | | | | 26935 |

**Annual Sediment Load (Metric Tonnes) : 33962**

## Daily Observed Sediment Datasheet for period : 2015-2016

**Station Name : Nellore ( AP000A6)** **Division : Hydrology Division, Chennai**

**Local River : Pennar** **Sub-Division : PSD, Kadapa**

| Day | Dec | | | | | | Jan | | | | | | Feb | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day |
| 1 | 405.0 | 0.000 | 0.013 | 0.007 | 0.019 | 672 | 8.508 | 0.000 | 0.000 | 0.004 | 0.004 | 3 | 4.672 | 0.000 | 0.000 | 0.001 | 0.001 | 1 |
| 2 | 646.4 | 0.000 | 0.000 | 0.004 | 0.004 | 223 | 7.177 | 0.000 | 0.000 | 0.008 | 0.008 | 5 | 4.782 | 0.000 | 0.000 | 0.003 | 0.003 | 1 |
| 3 | 723.0 | 0.000 | 0.000 | 0.001 | 0.001 | 56 | 7.771 | 0.000 | 0.000 | 0.006 | 0.006 | 4 | 4.905 | 0.000 | 0.000 | 0.002 | 0.002 | 1 |
| 4 | 693.2 | 0.000 | 0.000 | 0.002 | 0.002 | 132 | 8.675 | 0.000 | 0.000 | 0.003 | 0.003 | 2 | 5.122 | 0.000 | 0.000 | 0.001 | 0.001 | 1 |
| 5 | 622.0 | 0.000 | 0.000 | 0.003 | 0.003 | 161 | 8.506 | 0.000 | 0.000 | 0.002 | 0.002 | 1 | 5.347 | 0.000 | 0.000 | 0.001 | 0.001 | 0 |
| 6 | 484.8 | 0.000 | 0.000 | 0.003 | 0.003 | 134 | 8.122 | 0.000 | 0.000 | 0.003 | 0.003 | 2 | 5.353 | 0.000 | 0.000 | 0.001 | 0.001 | 1 |
| 7 | 438.7 | 0.000 | 0.000 | 0.003 | 0.003 | 125 | 6.131 | 0.000 | 0.000 | 0.004 | 0.004 | 2 | 5.154 | 0.000 | 0.000 | 0.001 | 0.001 | 0 |
| 8 | 362.6 | 0.000 | 0.000 | 0.002 | 0.002 | 50 | 5.500 | 0.000 | 0.000 | 0.001 | 0.001 | 1 | 5.522 | 0.000 | 0.000 | 0.004 | 0.004 | 2 |
| 9 | 348.8 | 0.000 | 0.000 | 0.003 | 0.003 | 81 | 4.771 | 0.000 | 0.000 | 0.006 | 0.006 | 2 | 5.748 | 0.000 | 0.000 | 0.001 | 0.001 | 1 |
| 10 | 313.2 | 0.000 | 0.000 | 0.004 | 0.004 | 106 | 6.063 | 0.000 | 0.000 | 0.007 | 0.007 | 4 | 4.546 | 0.000 | 0.000 | 0.001 | 0.001 | 1 |
| 11 | 282.7 | 0.000 | 0.000 | 0.013 | 0.013 | 322 | 4.729 | 0.000 | 0.000 | 0.001 | 0.001 | 0 | 4.204 | 0.000 | 0.000 | 0.003 | 0.003 | 1 |
| 12 | 240.8 | 0.000 | 0.000 | 0.015 | 0.015 | 316 | 4.604 | 0.000 | 0.000 | 0.026 | 0.026 | 11 | 3.767 | 0.000 | 0.000 | 0.002 | 0.002 | 1 |
| 13 | 255.6 | 0.000 | 0.000 | 0.015 | 0.015 | 320 | 4.488 | 0.000 | 0.000 | 0.001 | 0.001 | 0 | 4.323 | 0.000 | 0.000 | 0.002 | 0.002 | 1 |
| 14 | 249.6 | 0.000 | 0.000 | 0.015 | 0.015 | 319 | 4.431 | 0.000 | 0.000 | 0.011 | 0.011 | 4 | 4.983 | 0.000 | 0.000 | 0.006 | 0.006 | 2 |
| 15 | 225.1 | 0.000 | 0.000 | 0.018 | 0.018 | 356 | 4.411 | 0.000 | 0.000 | 0.011 | 0.011 | 4 | 4.515 | 0.000 | 0.000 | 0.003 | 0.003 | 1 |
| 16 | 184.0 | 0.000 | 0.000 | 0.005 | 0.005 | 72 | 4.439 | 0.000 | 0.000 | 0.002 | 0.002 | 1 | 4.591 | 0.000 | 0.000 | 0.002 | 0.002 | 1 |
| 17 | 193.4 | 0.000 | 0.000 | 0.005 | 0.005 | 89 | 4.816 | 0.000 | 0.000 | 0.001 | 0.001 | 0 | 4.558 | 0.000 | 0.000 | 0.002 | 0.002 | 1 |
| 18 | 198.4 | 0.000 | 0.000 | 0.003 | 0.003 | 48 | 5.153 | 0.000 | 0.000 | 0.001 | 0.001 | 0 | 4.630 | 0.000 | 0.000 | 0.002 | 0.002 | 1 |
| 19 | 199.7 | 0.000 | 0.000 | 0.006 | 0.006 | 104 | 5.211 | 0.000 | 0.000 | 0.002 | 0.002 | 1 | 4.767 | 0.000 | 0.000 | 0.004 | 0.004 | 2 |
| 20 | 5.047 | 0.000 | 0.000 | 0.003 | 0.003 | 1 | 4.848 | 0.000 | 0.000 | 0.005 | 0.005 | 2 | 4.793 | 0.000 | 0.000 | 0.007 | 0.007 | 3 |
| 21 | 4.809 | 0.000 | 0.000 | 0.002 | 0.002 | 1 | 4.790 | 0.000 | 0.000 | 0.002 | 0.002 | 1 | 5.241 | 0.000 | 0.000 | 0.008 | 0.008 | 3 |
| 22 | 5.734 | 0.000 | 0.000 | 0.003 | 0.003 | 1 | 4.590 | 0.000 | 0.000 | 0.004 | 0.004 | 1 | 4.957 | 0.000 | 0.000 | 0.007 | 0.007 | 3 |
| 23 | 4.129 | 0.000 | 0.000 | 0.002 | 0.002 | 1 | 4.883 | 0.000 | 0.000 | 0.003 | 0.003 | 1 | 6.761 | 0.000 | 0.000 | 0.009 | 0.009 | 5 |
| 24 | 4.129 | 0.000 | 0.000 | 0.002 | 0.002 | 1 | 4.411 | 0.000 | 0.000 | 0.003 | 0.003 | 1 | 6.754 | 0.000 | 0.000 | 0.001 | 0.001 | 0 |
| 25 | 4.576 | 0.000 | 0.000 | 0.002 | 0.002 | 1 | 4.889 | 0.000 | 0.000 | 0.002 | 0.002 | 1 | 5.385 | 0.000 | 0.000 | 0.001 | 0.001 | 1 |
| 26 | 6.518 | 0.000 | 0.000 | 0.005 | 0.005 | 3 | 4.411 | 0.000 | 0.000 | 0.002 | 0.002 | 1 | 5.726 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 27 | 7.177 | 0.000 | 0.000 | 0.008 | 0.008 | 5 | 4.893 | 0.000 | 0.000 | 0.002 | 0.002 | 1 | 5.766 | 0.000 | 0.000 | 0.001 | 0.001 | 1 |
| 28 | 7.107 | 0.000 | 0.000 | 0.007 | 0.007 | 4 | 4.992 | 0.000 | 0.000 | 0.002 | 0.002 | 1 | 5.964 | 0.000 | 0.000 | 0.002 | 0.002 | 1 |
| 29 | 6.816 | 0.000 | 0.000 | 0.006 | 0.006 | 4 | 4.123 | 0.000 | 0.000 | 0.002 | 0.002 | 1 | 5.617 | 0.000 | 0.000 | 0.001 | 0.001 | 0 |
| 30 | 7.816 | 0.000 | 0.000 | 0.004 | 0.004 | 3 | 4.669 | 0.000 | 0.000 | 0.002 | 0.002 | 1 | | | | | | |
| 31 | 8.138 | 0.000 | 0.000 | 0.005 | 0.005 | 3 | 4.899 | 0.000 | 0.000 | 0.002 | 0.002 | 1 | | | | | | |
| **Ten Daily Mean** | | | | | | | | | | | | | | | | | | |
| **Ten Daily I** | 503.8 | 0.000 | 0.001 | 0.003 | 0.004 | 174 | 7.123 | 0.000 | 0.000 | 0.004 | 0.004 | 3 | 5.115 | 0.000 | 0.000 | 0.002 | 0.002 | 1 |
| **Ten Daily II** | 203.4 | 0.000 | 0.000 | 0.010 | 0.010 | 195 | 4.713 | 0.000 | 0.000 | 0.006 | 0.006 | 2 | 4.513 | 0.000 | 0.000 | 0.003 | 0.003 | 1 |
| **Ten Daily III** | 6.086 | 0.000 | 0.000 | 0.004 | 0.004 | 2 | 4.686 | 0.000 | 0.000 | 0.002 | 0.002 | 1 | 5.797 | 0.000 | 0.000 | 0.003 | 0.003 | 2 |
| **Monthly Total** | | | | | | 3713 | | | | | | 59 | | | | | | 34 |

**Annual Sediment Load (Metric Tonnes) : 33962**

## Daily Observed Sediment Datasheet for period : 2015-2016

**Station Name : Nellore ( AP000A6)** **Division : Hydrology Division, Chennai**

**Local River : Pennar** **Sub-Division : PSD, Kadapa**

| Day | Mar | | | | | | Apr | | | | | | May | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day |
| 1 | 5.968 | 0.000 | 0.000 | 0.001 | 0.001 | 1 | 7.642 | 0.000 | 0.000 | 0.004 | 0.004 | 3 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 2 | 5.953 | 0.000 | 0.000 | 0.005 | 0.005 | 3 | 6.220 | 0.000 | 0.000 | 0.011 | 0.011 | 6 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 3 | 6.109 | 0.000 | 0.000 | 0.006 | 0.006 | 3 | 5.596 | 0.000 | 0.000 | 0.018 | 0.018 | 9 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 4 | 6.076 | 0.000 | 0.000 | 0.006 | 0.006 | 3 | 6.600 | 0.000 | 0.000 | 0.022 | 0.022 | 12 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 5 | 6.016 | 0.000 | 0.000 | 0.017 | 0.017 | 9 | 5.777 | 0.000 | 0.000 | 0.008 | 0.008 | 4 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 6 | 6.058 | 0.000 | 0.000 | 0.017 | 0.017 | 9 | 5.403 | 0.000 | 0.000 | 0.012 | 0.012 | 6 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 7 | 6.086 | 0.000 | 0.000 | 0.017 | 0.017 | 9 | 5.427 | 0.000 | 0.000 | 0.008 | 0.008 | 4 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 8 | 6.093 | 0.000 | 0.000 | 0.013 | 0.013 | 7 | 5.225 | 0.000 | 0.000 | 0.015 | 0.015 | 7 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 9 | 6.031 | 0.000 | 0.000 | 0.009 | 0.009 | 4 | 5.154 | 0.000 | 0.000 | 0.015 | 0.015 | 7 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 10 | 6.083 | 0.000 | 0.000 | 0.002 | 0.002 | 1 | 4.983 | 0.000 | 0.000 | 0.015 | 0.015 | 6 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 11 | 5.387 | 0.000 | 0.000 | 0.015 | 0.015 | 7 | 5.202 | 0.000 | 0.000 | 0.001 | 0.001 | 1 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 12 | 5.506 | 0.000 | 0.000 | 0.017 | 0.017 | 8 | 5.402 | 0.000 | 0.000 | 0.002 | 0.002 | 1 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 13 | 5.328 | 0.000 | 0.000 | 0.014 | 0.014 | 7 | 5.163 | 0.000 | 0.000 | 0.002 | 0.002 | 1 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 14 | 4.695 | 0.000 | 0.000 | 0.005 | 0.005 | 2 | 4.027 | 0.000 | 0.000 | 0.017 | 0.017 | 6 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 15 | 5.218 | 0.000 | 0.000 | 0.008 | 0.008 | 3 | 4.816 | 0.000 | 0.000 | 0.020 | 0.020 | 8 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 16 | 5.701 | 0.000 | 0.000 | 0.010 | 0.010 | 5 | 4.639 | 0.000 | 0.000 | 0.072 | 0.072 | 29 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 17 | 5.715 | 0.000 | 0.000 | 0.010 | 0.010 | 5 | 0.434 | 0.000 | 0.000 | 0.069 | 0.069 | 3 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 18 | 5.719 | 0.000 | 0.000 | 0.004 | 0.004 | 2 | 0.216 | 0.000 | 0.000 | 0.069 | 0.069 | 1 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 19 | 6.044 | 0.000 | 0.000 | 0.008 | 0.008 | 4 | 0.194 | 0.000 | 0.000 | 0.062 | 0.062 | 1 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 20 | 6.058 | 0.000 | 0.000 | 0.008 | 0.008 | 4 | 0.169 | 0.000 | 0.000 | 0.054 | 0.054 | 1 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 21 | 6.054 | 0.000 | 0.000 | 0.002 | 0.002 | 1 | 0.165 | 0.000 | 0.000 | 0.052 | 0.052 | 1 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 22 | 6.132 | 0.000 | 0.000 | 0.022 | 0.022 | 12 | 0.125 | 0.000 | 0.000 | 0.040 | 0.040 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 23 | 6.897 | 0.000 | 0.000 | 0.013 | 0.013 | 8 | 0.124 | 0.000 | 0.000 | 0.039 | 0.039 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 24 | 6.891 | 0.000 | 0.000 | 0.012 | 0.012 | 7 | 0.105 | 0.000 | 0.000 | 0.033 | 0.033 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 25 | 6.153 | 0.000 | 0.000 | 0.025 | 0.025 | 13 | 0.107 | 0.000 | 0.000 | 0.034 | 0.034 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 26 | 6.106 | 0.000 | 0.000 | 0.026 | 0.026 | 14 | 0.092 | 0.000 | 0.000 | 0.029 | 0.029 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 27 | 6.058 | 0.000 | 0.000 | 0.019 | 0.019 | 10 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 28 | 6.189 | 0.000 | 0.000 | 0.039 | 0.039 | 21 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 29 | 6.105 | 0.000 | 0.000 | 0.009 | 0.009 | 5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 30 | 6.118 | 0.000 | 0.000 | 0.006 | 0.006 | 3 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 31 | 7.483 | 0.000 | 0.000 | 0.005 | 0.005 | 3 | | | | | | | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| **Ten Daily Mean** | | | | | | | | | | | | | | | | | | |
| Ten Daily I | 6.047 | 0.000 | 0.000 | 0.009 | 0.009 | 5 | 5.803 | 0.000 | 0.000 | 0.013 | 0.013 | 6 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| Ten Daily II | 5.537 | 0.000 | 0.000 | 0.010 | 0.010 | 5 | 3.026 | 0.000 | 0.000 | 0.037 | 0.037 | 5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| Ten Daily III | 6.381 | 0.000 | 0.000 | 0.016 | 0.016 | 9 | 0.072 | 0.000 | 0.000 | 0.023 | 0.023 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| **Monthly** | | | | | | | | | | | | | | | | | | |
| Total | | | | | | 191 | | | | | | 116 | | | | | | 0 |

**Annual Sediment Load (Metric Tonnes) : 33962**

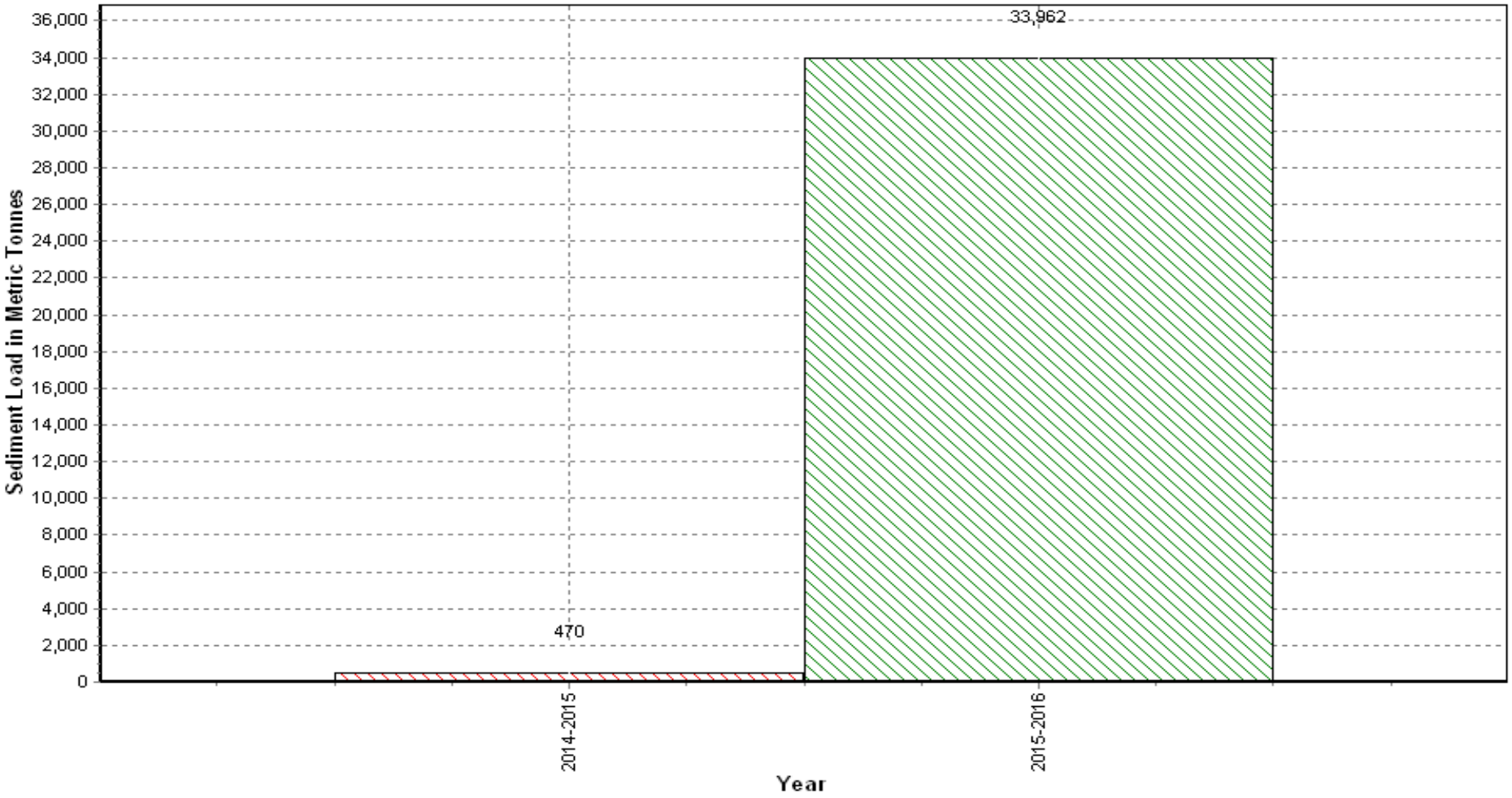
**Annual Sediment Load for the period: 2014-2016**

**Station Name : Nellore ( AP000A6)**

**Division : Hydrology Division, Chennai**

**Local River : Pennar**

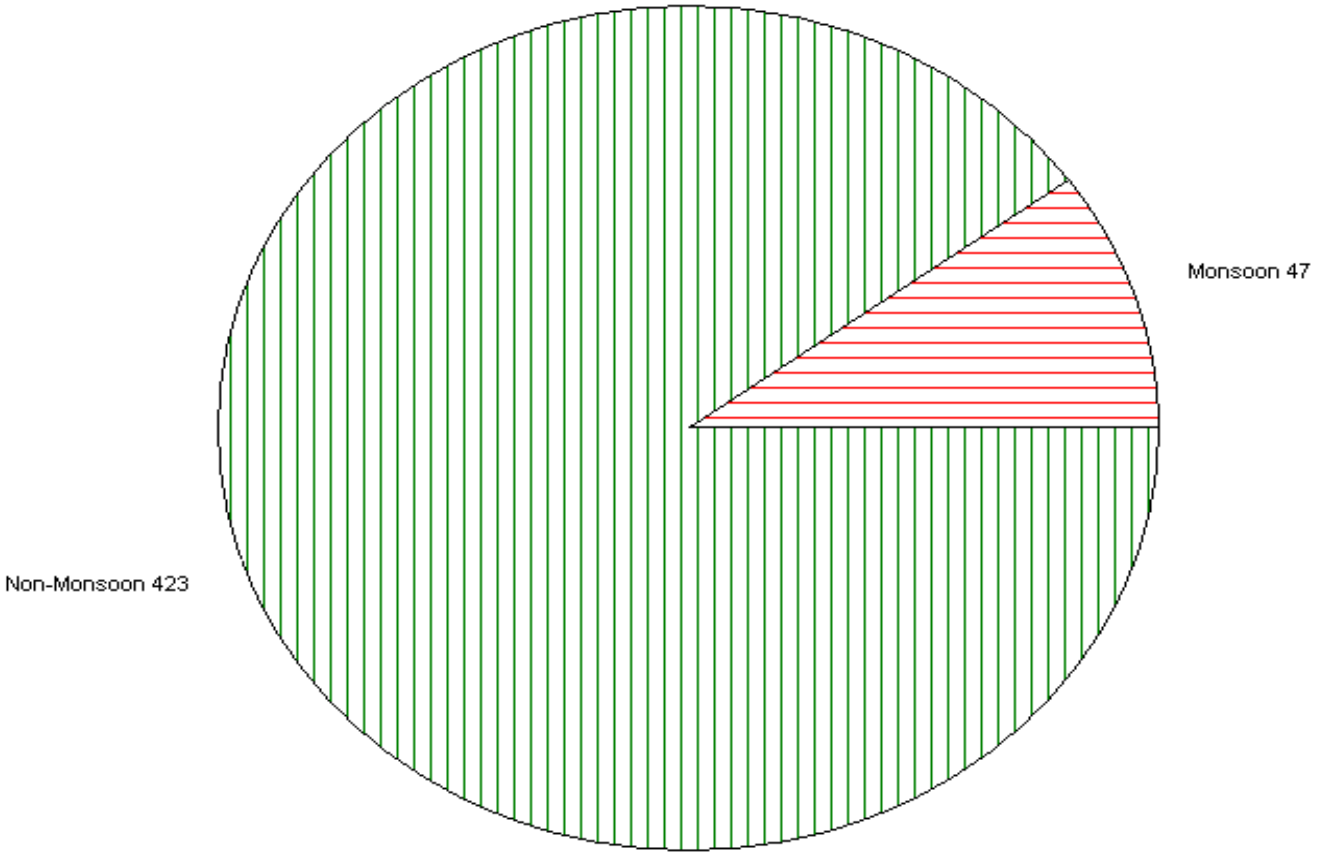
**Sub-Division : PSD, Kadapa**



**Seasonal Sediment Load for the period : 2014-2015**

**Station Name : Nellore ( AP000A6)**
**Local River : Pennar**

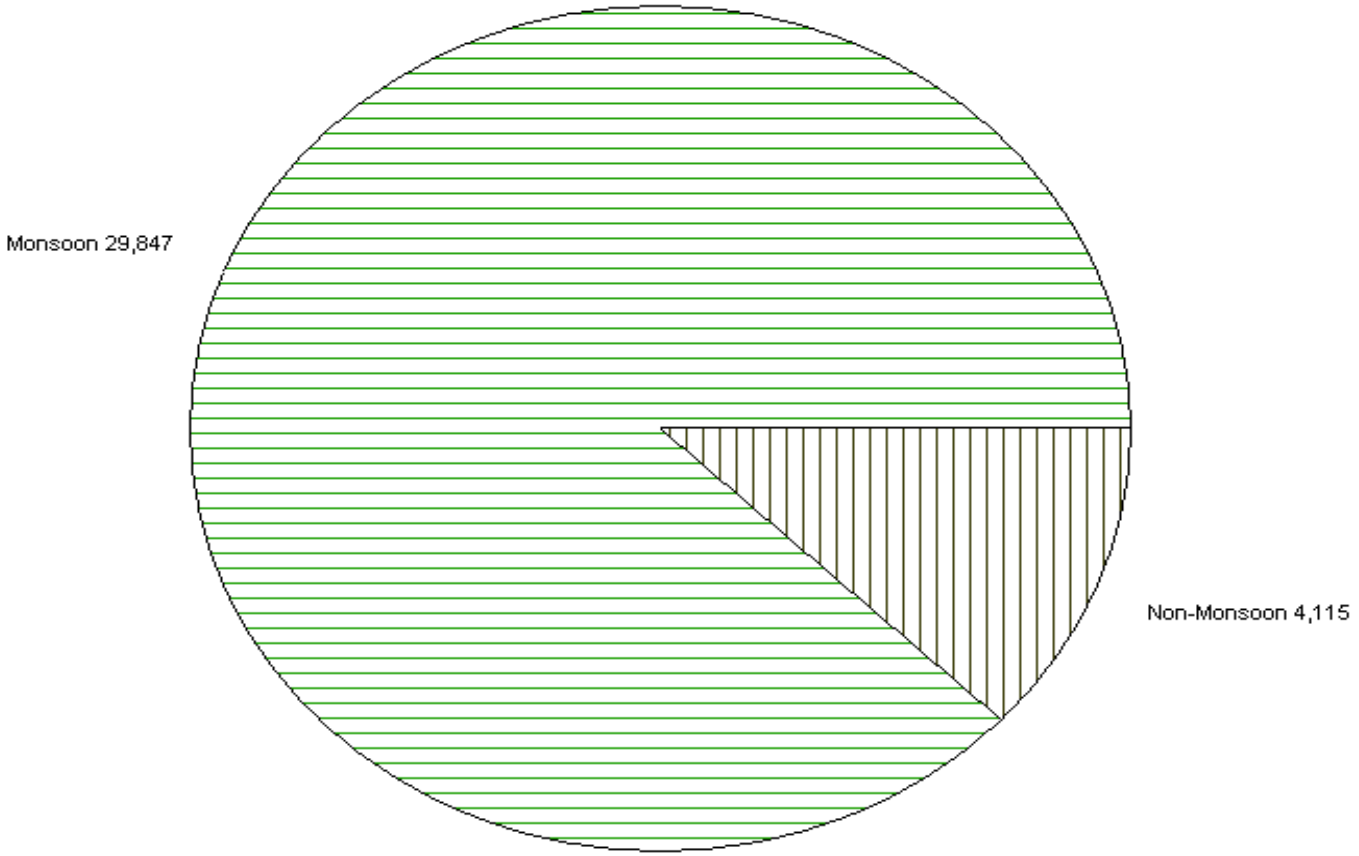
**Division : Hydrology Division, Chennai**
**Sub-Division : PSD, Kadapa**



**Seasonal Sediment Load for the Year: 2015-2016**

**Station Name : Nellore ( AP000A6)**
**Local River : Pennar**

**Division : Hydrology Division, Chennai**
**Sub-Division : PSD, Kadapa**



# BED MATERIAL ANALYSIS DATA

**RIVER : PENNAR** **CODE No. : AP000A6**

**SITE : NELLORE** **CROSS SECTION : SGL**

| Sl.No. | DATE OF COLLECTION | DATA FOR SAMPLE COLLECTED | | | | | | | | | Bed Material Composition | | | GENERAL DATA OF THE RIVER | | | | | Bed Material Composition | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | R.D.(m) | LAB NO. | R.L. OF DRY BED (m) | R.L. OF BED LEVEL (m) | W.L.(GTS) OF THE SAMPLING DEPTH (m) | DEPTH OF WATER (m) | WIDTH (m) | VELOCITY (m/s) | DISCHARGE (m3/s) | MAX. SIZE (mm) | MIN. SIZE (mm) | MEAN SIZE (mm) | WETTED PERIMETER (m) | HYDRAULIC MEAN DEPTH (m) | MEAN VELOCITY (m/s) | SURFACE WATER SLOPE | DISCHARGE (m3/s) | MAX. SIZE (mm) | MIN. SIZE (mm) | MEAN SIZE (mm) |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| | **MONSOON 2015 11/09/2015** | | | | | | | | | | | | | | | | | | | | |
| 1 | 11/09/2015 | 80 | 17 | 8.930 | - | - | - | 122.0 | - | - | 8.0 | 0.060 | 0.81 | | | | | | | | |
| 2 | 11/09/2015 | 160 | 18 | 8.480 | - | - | - | 122.0 | - | - | 6.0 | 0.060 | 0.95 | | | | | | | | |
| 3 | 11/09/2015 | 240 | 19 | 8.410 | - | - | - | 122.0 | - | - | 6.0 | 0.060 | 0.90 | | | | | | | | |
| 4 | 11/09/2015 | 320 | 20 | 8.085 | - | - | - | 122.0 | - | - | 9.0 | 0.060 | 0.97 | | | | | | | | |
| 5 | 11/09/2015 | 400 | 21 | 8.315 | - | - | - | 122.0 | - | - | 11.0 | 0.060 | 1.22 | | | | | | | | |
| 6 | 11/09/2015 | 480 | 22 | 8.405 | - | - | - | 122.0 | - | - | 12.0 | 0.060 | 1.02 | | | | | | | | |
| 7 | 11/09/2015 | 560 | 23 | - | 6.945 | 7.935 | 0.990 | 122.0 | 0.002 | 0.2109 | 10.0 | 0.060 | 1.02 | 122.172 | 0.8703 | 0.0020 | 0.00005 | 0.2109 | 12.0 | 0.060 | 0.984 |
| | **POST MONSOON 2016 08/02/2016** | | | | | | | | | | | | | | | | | | | | |
| 1 | 08/02/2016 | 80 | 54 | 8.880 | - | - | - | 256.0 | - | - | 9.0 | 0.060 | 0.66 | | | | | | | | |
| 2 | 08/02/2016 | 160 | 55 | 8.440 | - | - | - | 256.0 | - | - | 11.0 | 0.060 | 1.28 | | | | | | | | |
| 3 | 08/02/2016 | 240 | 56 | - | 8.195 | 8.345 | 0.150 | 256.0 | 0.0389 | 5.518 | 9.0 | 0.060 | 1.02 | | | | | | | | |
| 4 | 08/02/2016 | 320 | 57 | 8.460 | - | - | - | 256.0 | - | - | 12.0 | 0.060 | 1.08 | | | | | | | | |
| 5 | 08/02/2016 | 400 | 58 | 8.300 | - | - | - | 256.0 | | | 10.0 | 0.060 | 1.00 | | | | | | | | |
| 6 | 08/02/2016 | 480 | 59 | 8.540 | - | - | - | 256.0 | - | - | 11.0 | 0.060 | 0.53 | | | | | | | | |
| 7 | 08/02/2016 | 560 | 60 | - | 7.130 | 8.345 | 1.215 | 256.0 | 0.0389 | 5.518 | 7.0 | 0.060 | 0.66 | 256.210 | 0.5539 | 0.0389 | 0.00005 | 5.518 | 12.0 | 0.060 | 0.890 |
| | **PRE MONSOON 2016 13/05/2016** | | | | | | | | | | | | | | | | | | | | |
| 1 | 13/05/2016 | 80 | 91 | 8.850 | - | - | - | 80.0 | - | - | 15.0 | 0.060 | 1.53 | | | | | | | | |
| 2 | 13/05/2016 | 160 | 92 | 8.570 | - | - | - | 80.0 | - | - | 18.0 | 0.060 | 2.72 | | | | | | | | |
| 3 | 13/05/2016 | 240 | 93 | 7.685 | - | - | - | 80.0 | - | - | 7.0 | 0.060 | 0.77 | | | | | | | | |
| 4 | 13/05/2016 | 320 | 94 | 8.450 | River Bed Dry | | | 80.0 | - | - | 10.0 | 0.060 | 1.07 | Stagnant water | | | | | | | |
| 5 | 13/05/2016 | 400 | 95 | 8.670 | - | - | - | 80.0 | - | - | 13.0 | 0.060 | 0.94 | | | | | | | | |
| 6 | 13/05/2016 | 480 | 96 | 8.505 | - | - | - | 80.0 | - | - | 11.0 | 0.060 | 0.78 | | | | | | | | |
| 7 | 13/05/2016 | 560 | 97 | - | 6.690 | 7.840 | 1.150 | 80.0 | - | - | 10.0 | 0.060 | 0.65 | | | | | | 18.0 | 0.060 | 1.209 |

**Annual Sediment Load for period : 2013-2016**

**Station Name : Nandipalli ( APC00G7)** **Division : Hydrology Division, Chennai**

**Local River : Sagileru** **Sub-Division : PSD, Kadapa**

| Year | Monsoon (M.T.) | Non-Monsoon (M.T.) | Annual Load (M.T.) | Annual Run Off (MCM) |
|---|---|---|---|---|
| **2013-2014** | 53997 | 175 | 54172 | 105 |
| **2014-2015** | 34 | 0 | 34 | 1 |
| **2015-2016** | 12530 | 42 | 12572 | 18 |

## Daily Observed Sediment Datasheet for period : 2015-2016

**Station Name : Nandipalli ( APC00G7)** **Division : Hydrology Division, Chennai**

**Local River : Sagileru** **Sub-Division : PSD, Kadapa**

| Day | Jun | | | | | | Jul | | | | | | Aug | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total 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 | 8.161 | 0.000 | 0.000 | 2.742 | 2.742 | 1933 |
| 22 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 4.494 | 0.000 | 0.000 | 0.473 | 0.473 | 184 |
| 23 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 1.223 | 0.000 | 0.000 | 0.129 | 0.129 | 14 |
| 24 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.563 | 0.000 | 0.000 | 0.059 | 0.059 | 3 |
| 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 | 1.313 | 0.000 | 0.000 | 0.309 | 0.309 | 194 |
| Monthly | | | | | | | | | | | | | | | | | | |
| Total | | | | | | 0 | | | | | | 0 | | | | | | 2133 |

**Annual Sediment Load (Metric Tonnes) : 12572**

## Daily Observed Sediment Datasheet for period : 2015-2016

**Station Name : Nandipalli ( APC00G7)** **Division : Hydrology Division, Chennai**

**Local River : Sagileru** **Sub-Division : PSD, Kadapa**

| Day | Sep | | | | | | Oct | | | | | | Nov | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total 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 | 1.043 | 0.000 | 0.000 | 0.252 | 0.252 | 23 |
| 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 | 136.3 | 0.000 | 0.000 | 0.801 | 0.801 | 9432 |
| 18 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 9.308 | 0.000 | 0.000 | 0.182 | 0.182 | 147 |
| 19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 5.095 | 0.000 | 0.000 | 0.907 | 0.907 | 399 |
| 20 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 3.120 | 0.000 | 0.000 | 0.061 | 0.061 | 16 |
| 21 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 6.664 | 0.000 | 0.000 | 0.148 | 0.148 | 85 |
| 22 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 6.794 | 0.000 | 0.000 | 0.149 | 0.149 | 88 |
| 23 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 8.901 | 0.000 | 0.000 | 0.170 | 0.170 | 131 |
| 24 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 2.970 | 0.000 | 0.000 | 0.117 | 0.117 | 30 |
| 25 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 2.044 | 0.000 | 0.000 | 0.137 | 0.137 | 24 |
| 26 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.985 | 0.000 | 0.000 | 0.158 | 0.158 | 13 |
| 27 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.554 | 0.000 | 0.000 | 0.167 | 0.167 | 8 |
| 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 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 15.49 | 0.000 | 0.000 | 0.220 | 0.220 | 1002 |
| 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 | 2.891 | 0.000 | 0.000 | 0.105 | 0.105 | 38 |
| Monthly | | | | | | | | | | | | | | | | | | |
| Total | | | | | | 0 | | | | | | 0 | | | | | | 10397 |

**Annual Sediment Load (Metric Tonnes) : 12572**

## Daily Observed Sediment Datasheet for period : 2015-2016

**Station Name : Nandipalli ( APC00G7)** **Division : Hydrology Division, Chennai**

**Local River : Sagileru** **Sub-Division : PSD, Kadapa**

| Day | Dec | | | | | | Jan | | | | | | Feb | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day |
| 1 | 1.041 | 0.000 | 0.000 | 0.153 | 0.153 | 14 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 2 | 0.987 | 0.000 | 0.000 | 0.148 | 0.148 | 13 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 3 | 0.767 | 0.000 | 0.000 | 0.115 | 0.115 | 8 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 4 | 0.555 | 0.000 | 0.000 | 0.083 | 0.083 | 4 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 5 | 0.394 | 0.000 | 0.000 | 0.059 | 0.059 | 2 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 6 | 0.322 | 0.000 | 0.000 | 0.048 | 0.048 | 1 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 7 | 0.222 | 0.000 | 0.000 | 0.033 | 0.033 | 1 | 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 | | | | | | |
| 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 | 0.429 | 0.000 | 0.000 | 0.064 | 0.064 | 4 | 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 | | | | | | 42 | | | | | | 0 | | | | | | 0 |

**Annual Sediment Load (Metric Tonnes) : 12572**

## Daily Observed Sediment Datasheet for period : 2015-2016

**Station Name : Nandipalli ( APC00G7)** **Division : Hydrology Division, Chennai**

**Local River : Sagileru** **Sub-Division : PSD, Kadapa**

| Day | Mar | | | | | | Apr | | | | | | May | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total 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) : 12572**

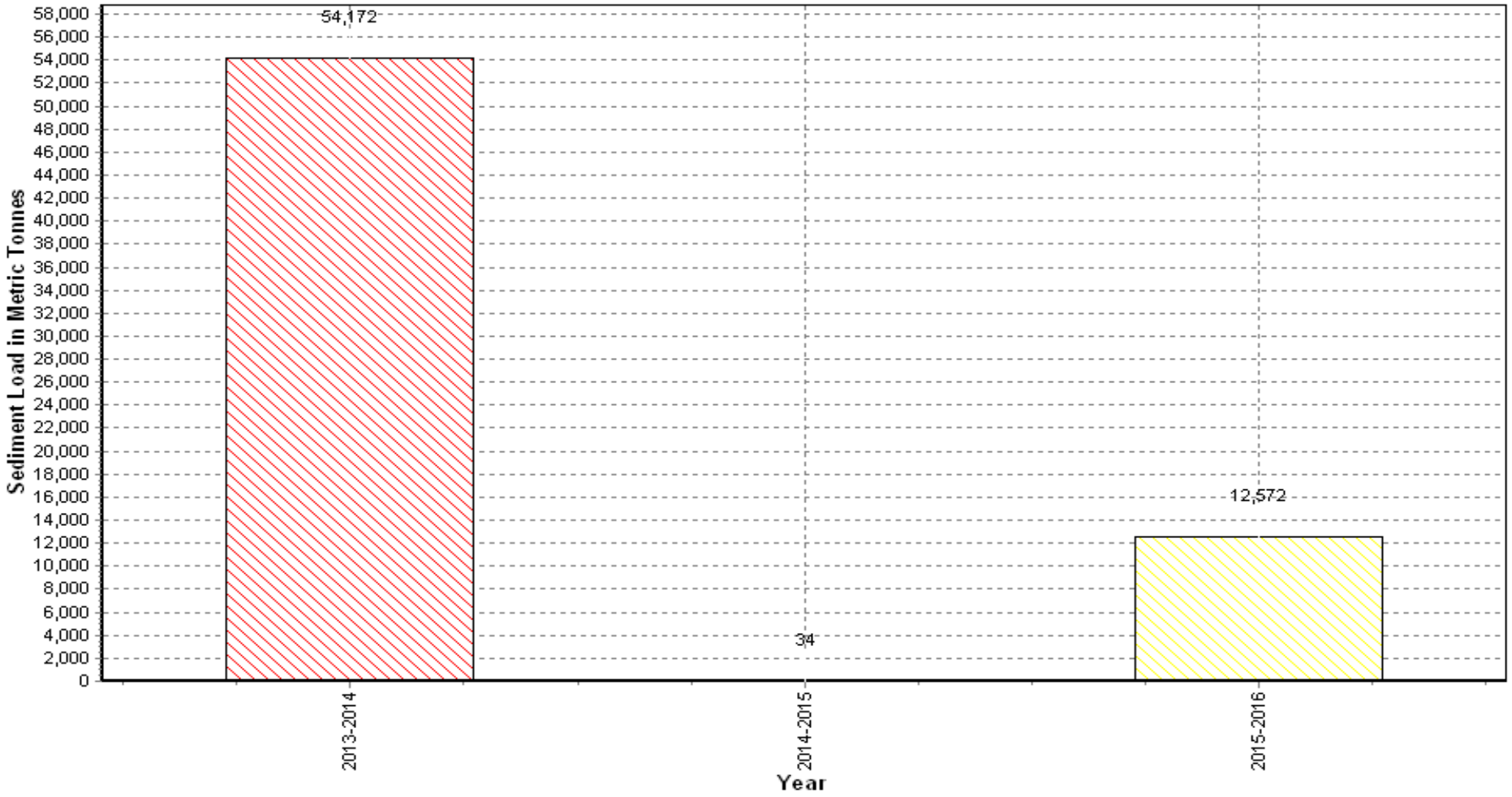
**Annual Sediment Load for the period: 2013-2016**

**Station Name : Nandipalli ( APC00G7)**

**Division : Hydrology Division, Chennai**

**Local River : Sagileru**

**Sub-Division : PSD, Kadapa**



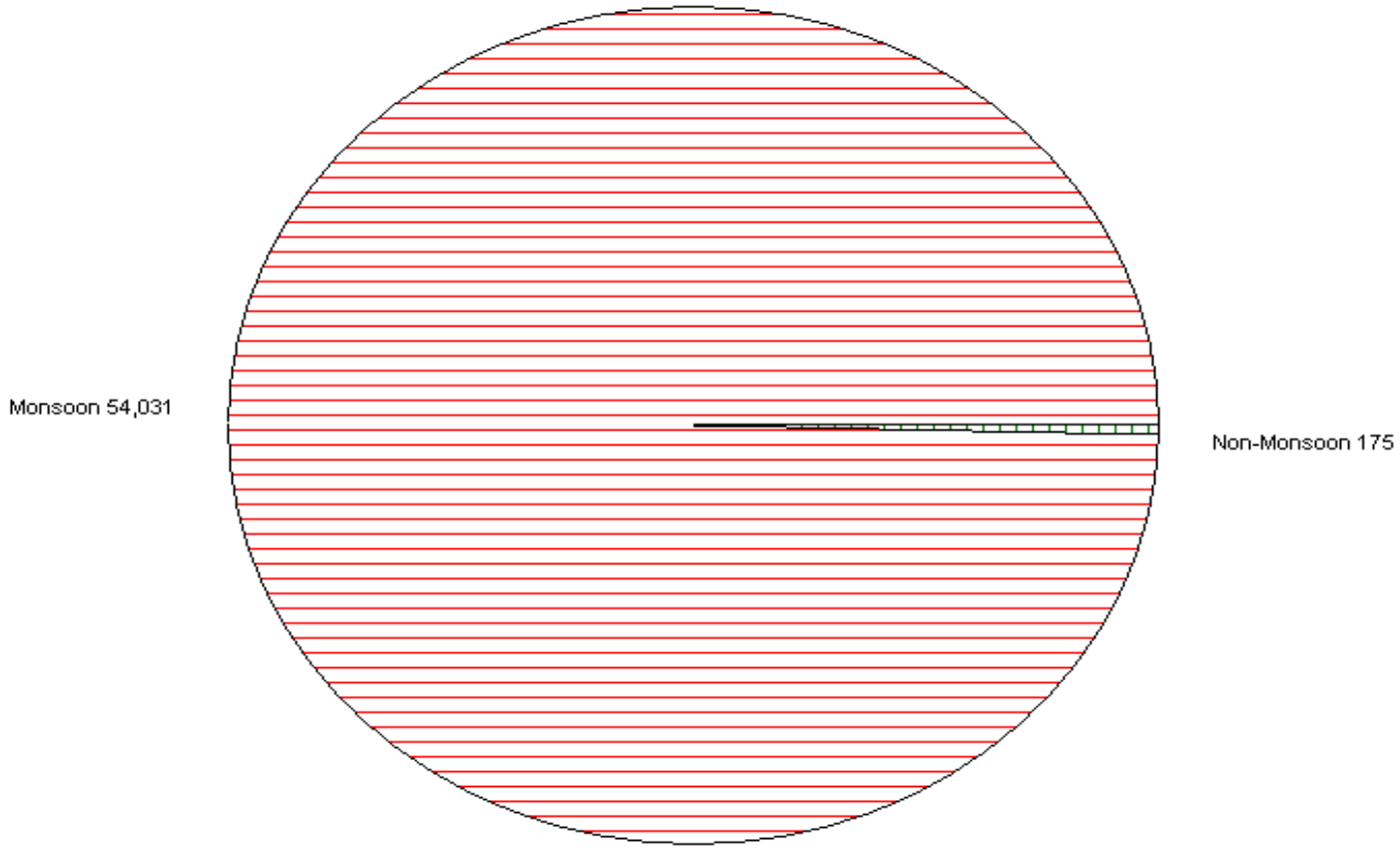
**Seasonal Sediment Load for the period : 2013-2015**

**Station Name : Nandipalli ( APC00G7)**

**Local River : Sagileru**

**Division : Hydrology Division, Chennai**

**Sub-Division : PSD, Kadapa**



**Seasonal Sediment Load for the Year: 2015-2016**

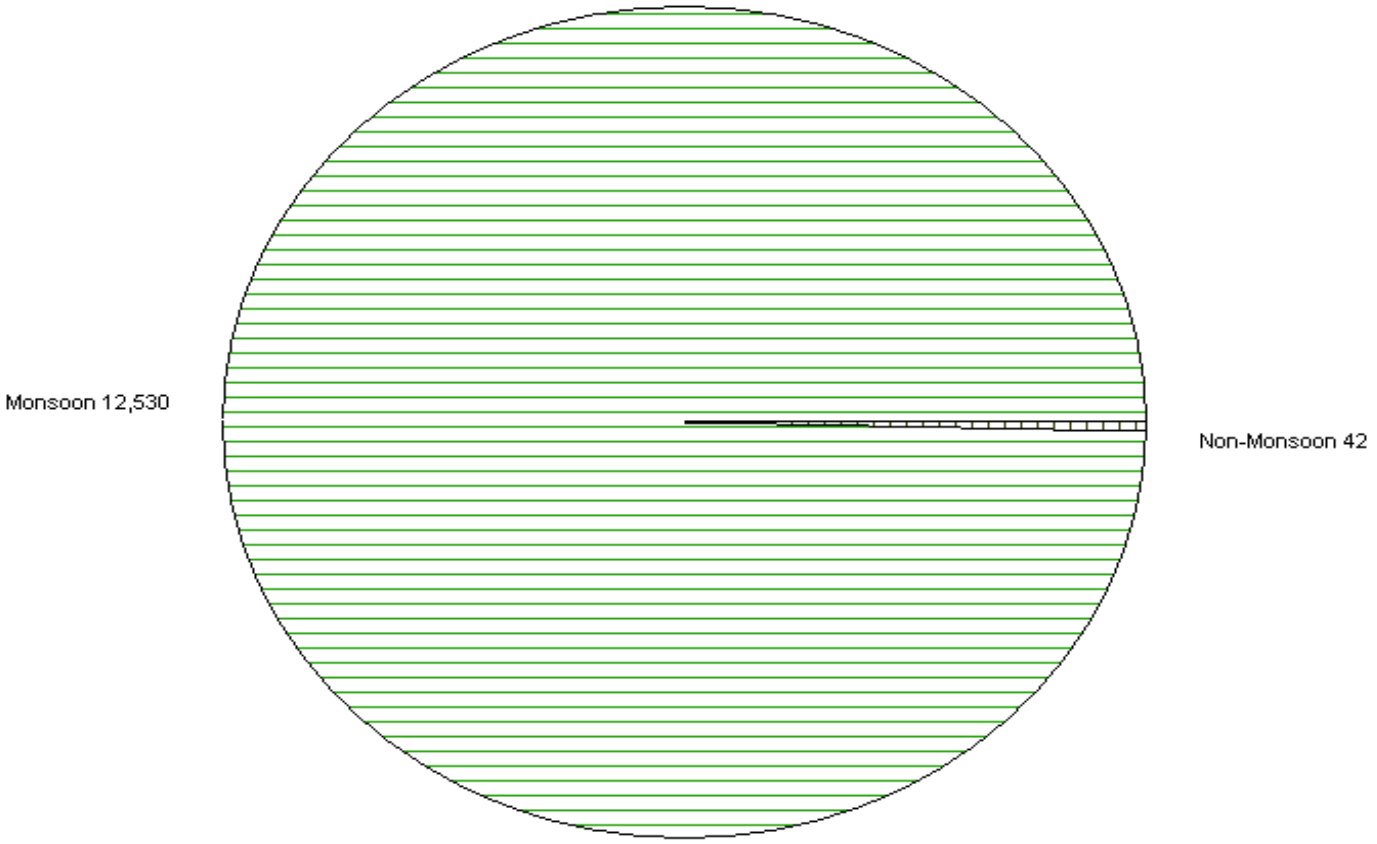
**Station Name : Nandipalli ( APC00G7)**

**Local River : Sagileru**

**Division : Hydrology Division, Chennai**

**Sub-Division : PSD, Kadapa**

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# BED MATERIAL ANALYSIS DATA

**RIVER : SAGILERU** **CODE No. : APC00G7**

**SITE : NANDIPALLI** **CROSS SECTION : SGL**

| Sl.No. | DATE OF COLLECTION | DATA FOR SAMPLE COLLECTED | | | | | | | | | Bed Material Composition | | | GENERAL DATA OF THE RIVER | | | | | Bed Material Composition | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | R.D.(m) | LAB NO. | R.L. OF DRY BED (m) | R.L. OF BED LEVEL (m) | W.L.(GTS) OF THE SAMPLING DEPTH (m) | DEPTH OF WATER (m) | WIDTH (m) | VELOCITY (m/s) | DISCHARGE (m3/s) | MAX. SIZE (mm) | MIN. SIZE (mm) | MEAN SIZE (mm) | WETTED PERIMETER (m) | HYDRAULIC MEAN DEPTH (m) | MEAN VELOCITY (m/s) | SURFACE WATER SLOPE | DISCHARGE (m3/s) | MAX. SIZE (mm) | MIN. SIZE (mm) | MEAN SIZE (mm) |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| | **MONSOON 2015 29/09/2015** | | | | | | | | | | | | | | | | | | | | |
| 1 | 29/09/2015 | 80 | 13 | - | 94.690 | 96.000 | 1.310 | 20.0 | - | - | 14.0 | 0.06 | 2.12 | Stagnant Water | | | | | 30 | 0.060 | 4.135 |
| 2 | 29/09/2015 | 100 | 14 | - | 94.900 | 96.000 | 1.100 | 20.0 | - | - | 30.0 | 0.06 | 4.32 | | | | | | | | |
| 3 | 29/09/2015 | 120 | 15 | - | 95.610 | 96.000 | 0.390 | 20.0 | - | - | 25.0 | 0.06 | 9.50 | | | | | | | | |
| 4 | 29/09/2015 | 140 | 16 | - | 95.900 | 96.000 | 0.100 | 20.0 | - | - | 10.0 | 0.06 | 0.60 | | | | | | | | |
| | **POST MONSOON 2016 14/01/2016** | | | | | | | | | | | | | | | | | | | | |
| 1 | 14/01/2016 | 80 | 50 | - | 94.070 | 95.000 | 0.930 | 20.0 | - | - | 15.0 | 0.06 | 5.24 | Stagnant Water | | | | | 30 | 0.060 | 4.130 |
| 2 | 14/01/2016 | 100 | 51 | - | 94.300 | 95.000 | 0.700 | 20.0 | - | - | 30.0 | 0.06 | 6.88 | | | | | | | | |
| 3 | 14/01/2016 | 120 | 52 | - | 94.940 | 95.000 | 0.060 | 20.0 | - | - | 22.0 | 0.06 | 4.07 | | | | | | | | |
| 4 | 14/01/2016 | 140 | 53 | 95.830 | - | - | - | 20.0 | - | - | 14.0 | 0.06 | 0.33 | | | | | | | | |
| | **PRE MONSOON 2016 03/05/2016** | | | | | | | | | | | | | | | | | | | | |
| 1 | 03/05/2016 | 80 | 87 | 95.460 | River Bed Dry | | | 20.0 | - | - | 9.0 | 0.06 | 1.56 | River Bed Dry | | | | | | | |
| 2 | 03/05/2016 | 100 | 88 | 95.080 | | | | 20.0 | - | - | 15.0 | 0.06 | 3.19 | | | | | | | | |
| 3 | 03/05/2016 | 120 | 89 | 94.610 | | | | 20.0 | - | - | 13.0 | 0.06 | 2.74 | | | | | | | | |
| 4 | 03/05/2016 | 140 | 90 | 95.805 | | | | 20.0 | - | - | 9.0 | 0.06 | 2.02 | | | | | | 15.0 | 0.060 | 2.378 |

**Annual Sediment Load for period : 1990-2016**

**Station Name : Chennur ( AP000I1)** **Division : Hydrology Division, Chennai**

**Local River : Pennar** **Sub-Division : PSD, Kadapa**

| Year | Monsoon (M.T.) | Non-Monsoon (M.T.) | Annual Load (M.T.) | Annual Run Off (MCM) |
|---|---|---|---|---|
| **1990-1991** | 860526 | 3948 | 864474 | 1382 |
| **1991-1992** | 856182 | 4783 | 860965 | 1671 |
| **1992-1993** | 228400 | 4438 | 232838 | 599 |
| **1993-1994** | 950843 | 27002 | 977844 | 1360 |
| **1994-1995** | 1294642 | 4492 | 1299134 | 875 |
| **1995-1996** | 318364 | 4651 | 323016 | 893 |
| **1996-1997** | 3041422 | 22203 | 3063626 | 6549 |
| **1997-1998** | 958316 | 18972 | 977288 | 1575 |
| **1998-1999** | SEDIMENT DATA NOT PUBLISHED | | | 3789 |
| **1999-2000** | SEDIMENT DATA NOT PUBLISHED | | | 1068 |
| **2000-2001** | 3769520 | 22967 | 3792487 | 3350 |
| **2001-2002** | 4725192 | 18459 | 4743651 | 3053 |
| **2002-2003** | 228845 | 0 | 228845 | 264 |
| **2003-2004** | 284577 | 1033 | 285610 | 563 |
| **2004-2005** | 582858 | 6101 | 588960 | 1372 |
| **2005-2006** | 1137090 | 25126 | 1162217 | 3451 |
| **2006-2007** | SEDIMENT OBSERVATIEON NOT DONE | | | 1898 |
| **2007-2008** | SEDIMENT OBSERVATIEON NOT DONE | | | 4832 |
| **2008-2009** | 312466 | 12468 | 324934 | 2211 |
| **2009-2010** | 1820803 | 16153 | 1836956 | 3228 |
| **2010-2011** | 932783 | 66340 | 999123 | 4401 |
| **2011-2012** | 474055 | 12351 | 486406 | 2448 |
| **2012-2013** | 165396 | 2418 | 167814 | 652 |
| **2013-2014** | 824727 | 24068 | 848795 | 3401 |
| **2014-2015** | 521862 | 7275 | 529137 | 2734 |
| **2015-2016** | 113673 | 886 | 114559 | 496 |

## Daily Observed Sediment Datasheet for period : 2015-2016

**Station Name : Chennur ( AP000I1)** **Division : Hydrology Division, Chennai**

**Local River : Pennar** **Sub-Division : PSD, Kadapa**

| Day | Jun | | | | | | Jul | | | | | | Aug | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total 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 | 3.915 | 0.000 | 0.000 | 0.035 | 0.035 | 12 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 16 | 3.252 | 0.000 | 0.000 | 0.031 | 0.031 | 9 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 17 | 2.460 | 0.000 | 0.000 | 0.023 | 0.023 | 5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 18 | 2.010 | 0.000 | 0.000 | 0.022 | 0.022 | 4 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 19 | 1.904 | 0.000 | 0.000 | 0.023 | 0.023 | 4 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 20 | 1.819 | 0.000 | 0.000 | 0.025 | 0.025 | 4 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 21 | 1.765 | 0.000 | 0.000 | 0.026 | 0.026 | 4 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 82.56 | 0.000 | 0.000 | 0.678 | 0.678 | 4836 |
| 22 | 1.719 | 0.000 | 0.000 | 0.027 | 0.027 | 4 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 84.69 | 0.000 | 0.000 | 0.440 | 0.440 | 3220 |
| 23 | 1.719 | 0.000 | 0.000 | 0.025 | 0.025 | 4 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 40.63 | 0.000 | 0.000 | 0.089 | 0.089 | 312 |
| 24 | 1.722 | 0.000 | 0.000 | 0.025 | 0.025 | 4 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 40.29 | 0.000 | 0.000 | 0.086 | 0.086 | 300 |
| 25 | 1.544 | 0.000 | 0.000 | 0.025 | 0.025 | 3 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 16.19 | 0.000 | 0.000 | 0.156 | 0.156 | 218 |
| 26 | 1.202 | 0.000 | 0.000 | 0.027 | 0.027 | 3 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 7.517 | 0.000 | 0.000 | 0.057 | 0.057 | 37 |
| 27 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 7.232 | 0.000 | 0.000 | 0.046 | 0.046 | 29 |
| 28 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 6.403 | 0.000 | 0.000 | 0.056 | 0.056 | 31 |
| 29 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 5.574 | 0.000 | 0.000 | 0.042 | 0.042 | 20 |
| 30 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 1.350 | 0.000 | 0.000 | 0.033 | 0.033 | 4 |
| 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 | 1.536 | 0.000 | 0.000 | 0.016 | 0.016 | 4 | 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 | 0.967 | 0.000 | 0.000 | 0.015 | 0.015 | 2 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 26.58 | 0.000 | 0.000 | 0.153 | 0.153 | 819 |
| Monthly | | | | | | | | | | | | | | | | | | |
| Total | | | | | | 58 | | | | | | 0 | | | | | | 9006 |

**Annual Sediment Load (Metric Tonnes) : 114559**

## Daily Observed Sediment Datasheet for period : 2015-2016

**Station Name : Chennur ( AP000I1)** **Division : Hydrology Division, Chennai**

**Local River : Pennar** **Sub-Division : PSD, Kadapa**

| Day | Sep | | | | | | Oct | | | | | | Nov | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day |
| 1 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 41.22 | 0.000 | 0.000 | 0.039 | 0.039 | 140 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 2 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 21.77 | 0.000 | 0.000 | 0.023 | 0.023 | 43 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 3 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 19.26 | 0.000 | 0.000 | 0.021 | 0.021 | 35 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 4 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 388.6 | 0.000 | 0.000 | 0.437 | 0.437 | 14676 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 156.5 | 0.000 | 0.000 | 0.176 | 0.176 | 2373 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 6 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 65.09 | 0.000 | 0.000 | 0.119 | 0.119 | 670 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 7 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 41.92 | 0.000 | 0.000 | 0.068 | 0.068 | 247 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 8 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 145.1 | 0.000 | 0.000 | 0.140 | 0.140 | 1756 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 9 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 302.2 | 0.000 | 0.000 | 0.100 | 0.100 | 2609 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 10 | 15.05 | 0.000 | 0.000 | 0.060 | 0.060 | 79 | 152.3 | 0.000 | 0.000 | 0.097 | 0.097 | 1275 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 11 | 100.8 | 0.000 | 0.000 | 0.171 | 0.171 | 1484 | 70.45 | 0.000 | 0.000 | 0.067 | 0.067 | 405 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 12 | 195.1 | 0.000 | 0.000 | 0.451 | 0.451 | 7601 | 61.53 | 0.000 | 0.000 | 0.063 | 0.063 | 336 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 13 | 131.3 | 0.000 | 0.000 | 0.228 | 0.228 | 2585 | 40.42 | 0.000 | 0.000 | 0.046 | 0.046 | 162 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 14 | 75.33 | 0.000 | 0.000 | 0.032 | 0.032 | 210 | 32.89 | 0.000 | 0.000 | 0.047 | 0.047 | 134 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 15 | 42.28 | 0.000 | 0.000 | 0.028 | 0.028 | 101 | 20.72 | 0.000 | 0.000 | 0.034 | 0.034 | 61 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 16 | 38.22 | 0.000 | 0.000 | 0.027 | 0.027 | 89 | 16.58 | 0.000 | 0.000 | 0.028 | 0.028 | 41 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 17 | 43.48 | 0.000 | 0.000 | 0.031 | 0.031 | 115 | 7.155 | 0.000 | 0.000 | 0.026 | 0.026 | 16 | 316.9 | 0.000 | 0.000 | 0.266 | 0.266 | 7283 |
| 18 | 24.94 | 0.000 | 0.000 | 0.097 | 0.097 | 208 | 7.155 | 0.000 | 0.000 | 0.026 | 0.026 | 16 | 294.3 | 0.000 | 0.000 | 0.148 | 0.148 | 3770 |
| 19 | 18.86 | 0.000 | 0.000 | 0.105 | 0.105 | 172 | 1.257 | 0.000 | 0.000 | 0.026 | 0.026 | 3 | 148.8 | 0.000 | 0.000 | 0.077 | 0.077 | 986 |
| 20 | 16.40 | 0.000 | 0.000 | 0.111 | 0.111 | 158 | 0.999 | 0.000 | 0.000 | 0.019 | 0.019 | 2 | 142.2 | 0.000 | 0.000 | 0.044 | 0.044 | 543 |
| 21 | 11.03 | 0.000 | 0.000 | 0.124 | 0.124 | 118 | 0.999 | 0.000 | 0.000 | 0.019 | 0.019 | 2 | 196.2 | 0.000 | 0.000 | 0.066 | 0.066 | 1119 |
| 22 | 11.91 | 0.000 | 0.000 | 0.145 | 0.145 | 149 | 0.999 | 0.000 | 0.000 | 0.019 | 0.019 | 2 | 157.6 | 0.000 | 0.000 | 0.057 | 0.057 | 771 |
| 23 | 11.25 | 0.000 | 0.000 | 0.136 | 0.136 | 133 | 0.846 | 0.000 | 0.000 | 0.020 | 0.020 | 1 | 139.7 | 0.000 | 0.000 | 0.052 | 0.052 | 631 |
| 24 | 11.22 | 0.000 | 0.000 | 0.136 | 0.136 | 132 | 0.846 | 0.000 | 0.000 | 0.020 | 0.020 | 1 | 95.81 | 0.000 | 0.000 | 0.064 | 0.064 | 529 |
| 25 | 7.155 | 0.000 | 0.000 | 0.143 | 0.143 | 89 | 0.846 | 0.000 | 0.000 | 0.020 | 0.020 | 1 | 82.56 | 0.000 | 0.000 | 0.059 | 0.059 | 420 |
| 26 | 6.659 | 0.000 | 0.000 | 0.147 | 0.147 | 85 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 53.76 | 0.000 | 0.000 | 0.048 | 0.048 | 223 |
| 27 | 487.8 | 0.027 | 0.056 | 0.660 | 0.743 | 31321 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 41.09 | 0.000 | 0.000 | 0.058 | 0.058 | 205 |
| 28 | 261.7 | 0.020 | 0.041 | 0.498 | 0.559 | 12646 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 34.84 | 0.000 | 0.000 | 0.035 | 0.035 | 105 |
| 29 | 153.9 | 0.000 | 0.000 | 0.291 | 0.291 | 3866 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 26.94 | 0.000 | 0.000 | 0.035 | 0.035 | 81 |
| 30 | 64.23 | 0.000 | 0.000 | 0.276 | 0.276 | 1532 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 21.28 | 0.000 | 0.000 | 0.035 | 0.035 | 64 |
| 31 | | | | | | | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | | | | | | |
| Ten Daily Mean | | | | | | | | | | | | | | | | | | |
| Ten Daily I | 1.505 | 0.000 | 0.000 | 0.006 | 0.006 | 8 | 133.4 | 0.000 | 0.000 | 0.122 | 0.122 | 2382 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| Ten Daily II | 68.67 | 0.000 | 0.000 | 0.128 | 0.128 | 1272 | 25.91 | 0.000 | 0.000 | 0.038 | 0.038 | 118 | 90.22 | 0.000 | 0.000 | 0.054 | 0.054 | 1258 |
| Ten Daily III | 102.7 | 0.005 | 0.010 | 0.256 | 0.270 | 5007 | 0.412 | 0.000 | 0.000 | 0.009 | 0.009 | 1 | 84.97 | 0.000 | 0.000 | 0.051 | 0.051 | 415 |
| Monthly | | | | | | | | | | | | | | | | | | |
| Total | | | | | | 62872 | | | | | | 25006 | | | | | | 16730 |

**Annual Sediment Load (Metric Tonnes) : 114559**

## Daily Observed Sediment Datasheet for period : 2015-2016

**Station Name : Chennur ( AP000I1)** **Division : Hydrology Division, Chennai**

**Local River : Pennar** **Sub-Division : PSD, Kadapa**

| Day | Dec | | | | | | Jan | | | | | | Feb | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day |
| 1 | 14.33 | 0.000 | 0.000 | 0.031 | 0.031 | 39 | 2.482 | 0.000 | 0.000 | 0.025 | 0.025 | 5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 2 | 15.11 | 0.000 | 0.000 | 0.032 | 0.032 | 42 | 2.482 | 0.000 | 0.000 | 0.025 | 0.025 | 5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 3 | 15.19 | 0.000 | 0.000 | 0.032 | 0.032 | 42 | 2.482 | 0.000 | 0.000 | 0.023 | 0.023 | 5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 4 | 21.36 | 0.000 | 0.000 | 0.035 | 0.035 | 65 | 2.482 | 0.000 | 0.000 | 0.023 | 0.023 | 5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 5 | 21.23 | 0.000 | 0.000 | 0.036 | 0.036 | 66 | 2.331 | 0.000 | 0.000 | 0.025 | 0.025 | 5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 6 | 19.79 | 0.000 | 0.000 | 0.035 | 0.035 | 61 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 7 | 19.88 | 0.000 | 0.000 | 0.035 | 0.035 | 61 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 8 | 19.16 | 0.000 | 0.000 | 0.036 | 0.036 | 59 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 9 | 15.36 | 0.000 | 0.000 | 0.032 | 0.032 | 42 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 10 | 10.15 | 0.000 | 0.000 | 0.029 | 0.029 | 25 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 11 | 9.341 | 0.000 | 0.000 | 0.029 | 0.029 | 24 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 12 | 8.993 | 0.000 | 0.000 | 0.025 | 0.025 | 19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 13 | 7.890 | 0.000 | 0.000 | 0.026 | 0.026 | 18 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 14 | 8.292 | 0.000 | 0.000 | 0.025 | 0.025 | 18 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 15 | 7.592 | 0.000 | 0.000 | 0.025 | 0.025 | 17 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 16 | 7.133 | 0.000 | 0.000 | 0.026 | 0.026 | 16 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 17 | 6.399 | 0.000 | 0.000 | 0.025 | 0.025 | 14 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 18 | 5.557 | 0.000 | 0.000 | 0.026 | 0.026 | 13 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 19 | 5.213 | 0.000 | 0.000 | 0.027 | 0.027 | 12 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 20 | 4.744 | 0.000 | 0.000 | 0.026 | 0.026 | 11 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 21 | 3.032 | 0.000 | 0.000 | 0.024 | 0.024 | 6 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 22 | 2.852 | 0.000 | 0.000 | 0.024 | 0.024 | 6 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 23 | 3.507 | 0.000 | 0.000 | 0.021 | 0.021 | 6 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 24 | 2.712 | 0.000 | 0.000 | 0.025 | 0.025 | 6 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 25 | 3.143 | 0.000 | 0.000 | 0.020 | 0.020 | 5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 26 | 2.550 | 0.000 | 0.000 | 0.027 | 0.027 | 6 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 27 | 2.969 | 0.000 | 0.000 | 0.024 | 0.024 | 6 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 28 | 2.801 | 0.000 | 0.000 | 0.025 | 0.025 | 6 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 29 | 2.639 | 0.000 | 0.000 | 0.025 | 0.025 | 6 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 30 | 2.639 | 0.000 | 0.000 | 0.025 | 0.025 | 6 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | | | | | | |
| 31 | 2.639 | 0.000 | 0.000 | 0.025 | 0.025 | 6 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | | | | | | |
| Ten Daily Mean | | | | | | | | | | | | | | | | | | |
| Ten Daily I | 17.16 | 0.000 | 0.000 | 0.033 | 0.033 | 50 | 1.226 | 0.000 | 0.000 | 0.012 | 0.012 | 3 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| Ten Daily II | 7.115 | 0.000 | 0.000 | 0.026 | 0.026 | 16 | 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 | 2.862 | 0.000 | 0.000 | 0.024 | 0.024 | 6 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| Monthly | | | | | | | | | | | | | | | | | | |
| Total | | | | | | 726 | | | | | | 26 | | | | | | 0 |

**Annual Sediment Load (Metric Tonnes) : 114559**

## Daily Observed Sediment Datasheet for period : 2015-2016

**Station Name : Chennur ( AP000I1)** **Division : Hydrology Division, Chennai**

**Local River : Pennar** **Sub-Division : PSD, Kadapa**

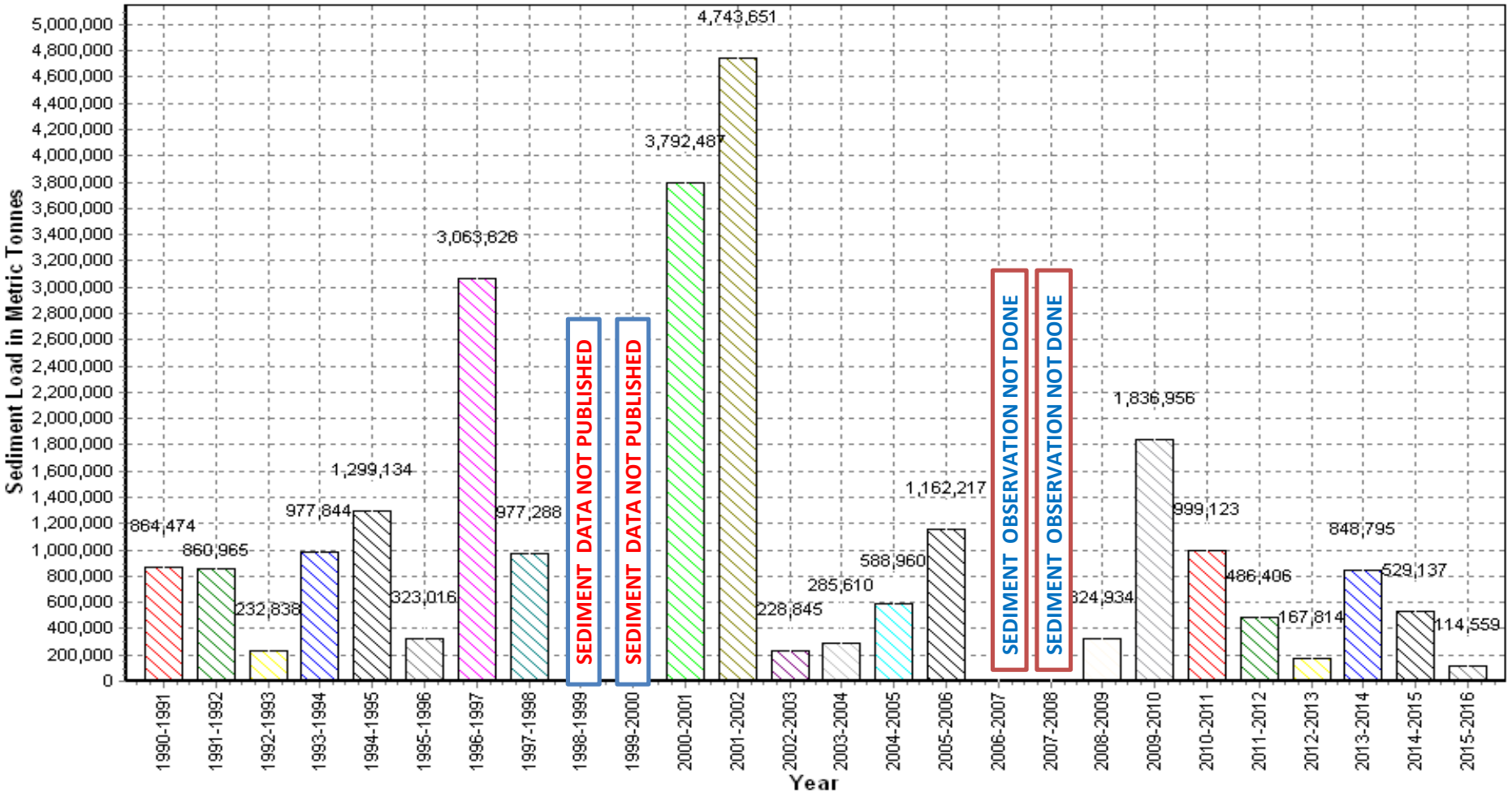
| Day | Mar | | | | | | Apr | | | | | | May | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total 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 | 1.493 | 0.000 | 0.000 | 0.036 | 0.036 | 5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 6 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 1.361 | 0.000 | 0.000 | 0.036 | 0.036 | 4 | 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 | 1.927 | 0.000 | 0.000 | 0.036 | 0.036 | 6 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 12 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 2.228 | 0.000 | 0.000 | 0.038 | 0.038 | 7 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 13 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 2.958 | 0.000 | 0.000 | 0.028 | 0.028 | 7 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 14 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 2.801 | 0.000 | 0.000 | 0.036 | 0.036 | 9 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 15 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 2.879 | 0.000 | 0.000 | 0.032 | 0.032 | 8 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 16 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 1.318 | 0.000 | 0.000 | 0.038 | 0.038 | 4 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 17 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 2.186 | 0.000 | 0.000 | 0.034 | 0.034 | 6 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 18 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 2.759 | 0.000 | 0.000 | 0.032 | 0.032 | 8 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 3.320 | 0.000 | 0.000 | 0.026 | 0.026 | 7 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 20 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 3.143 | 0.000 | 0.000 | 0.025 | 0.025 | 7 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 21 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 3.963 | 0.000 | 0.000 | 0.027 | 0.027 | 9 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 22 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 3.914 | 0.000 | 0.000 | 0.027 | 0.027 | 9 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 23 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 4.110 | 0.000 | 0.000 | 0.025 | 0.025 | 9 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 24 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 3.699 | 0.000 | 0.000 | 0.026 | 0.026 | 8 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 25 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 3.976 | 0.000 | 0.000 | 0.025 | 0.025 | 9 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 26 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 2.831 | 0.000 | 0.000 | 0.023 | 0.023 | 6 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 27 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 2.426 | 0.000 | 0.000 | 0.029 | 0.029 | 6 | 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 | 0.285 | 0.000 | 0.000 | 0.007 | 0.007 | 1 | 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 | 2.552 | 0.000 | 0.000 | 0.032 | 0.032 | 7 | 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 | 2.492 | 0.000 | 0.000 | 0.018 | 0.018 | 6 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| Monthly | | | | | | | | | | | | | | | | | | |
| Total | | | | | | 0 | | | | | | 134 | | | | | | 0 |

**Annual Sediment Load (Metric Tonnes) : 114559**

**Annual Sediment Load for the period: 1990-2016**

**Station Name : Chennur ( AP000I1)**
**Local River : Pennar**

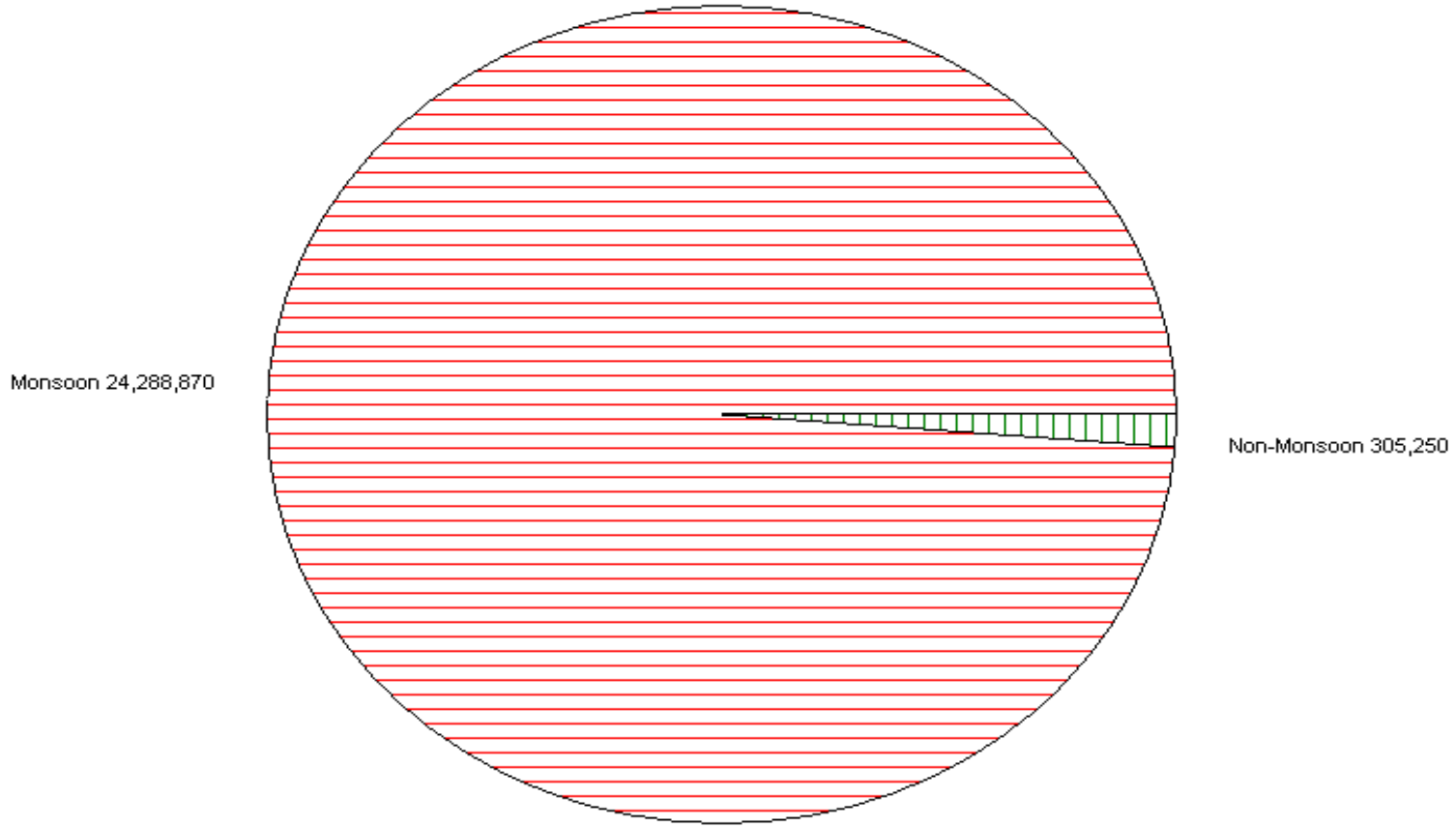
**Division : Hydrology Division, Chennai**
**Sub-Division : PSD, Kadapa**



**Seasonal Sediment Load for the period : 1990-2015**

**Station Name : Chennur ( AP000I1)**
**Local River : Pennar**

**Division : Hydrology Division, Chennai**
**Sub-Division : PSD, Kadapa**



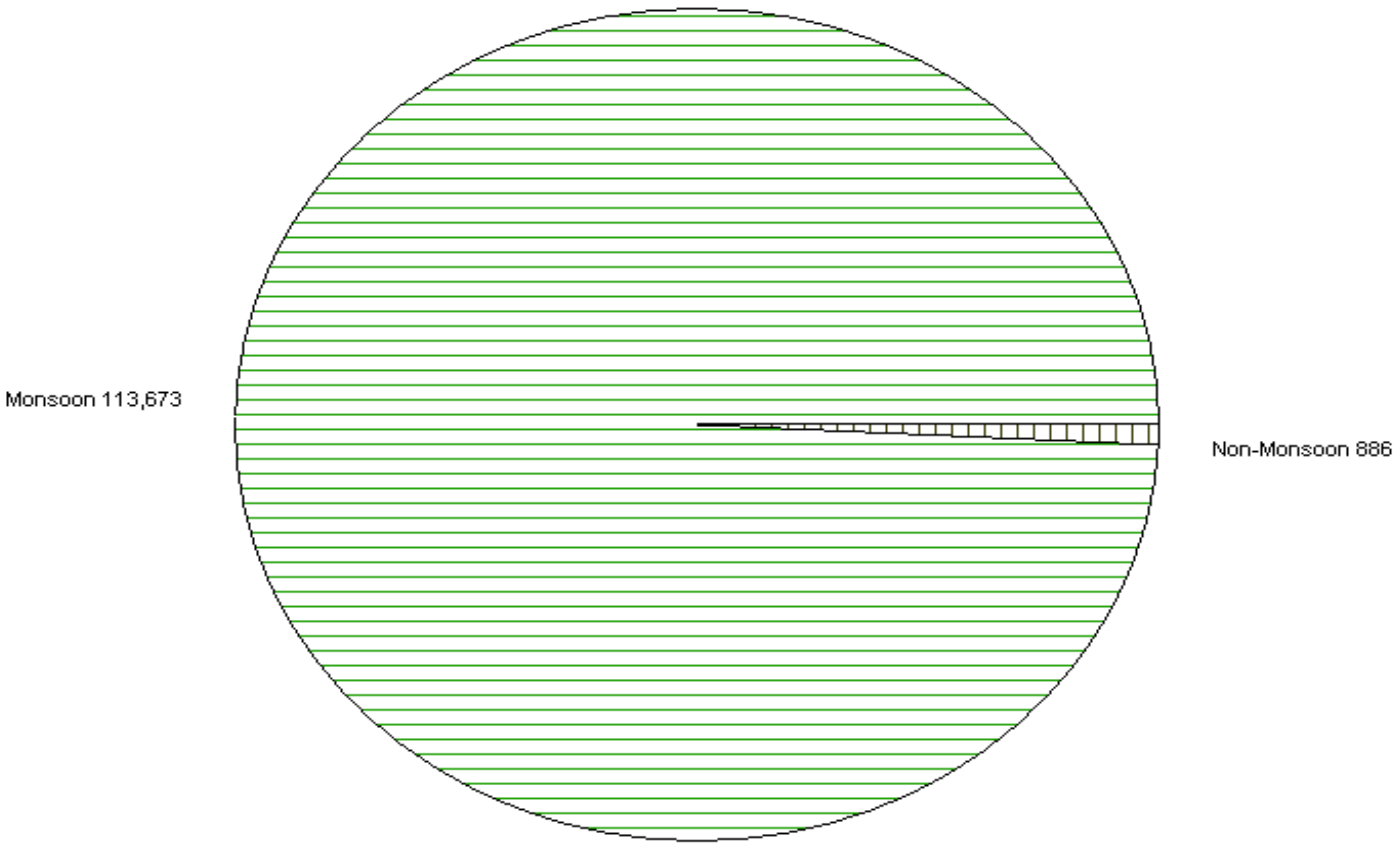
**Seasonal Sediment Load for the Year: 2015-2016**

**Station Name : Chennur ( AP000I1)**

**Local River : Pennar**

**Division : Hydrology Division, Chennai**

**Sub-Division : PSD, Kadapa**



# BED MATERIAL ANALYSIS DATA

**RIVER : PENNAR** **CODE No. : AP000I1**

**SITE : CHENNUR** **CROSS SECTION : SGL**

| Sl.No. | DATE OF COLLECTION | DATA FOR SAMPLE COLLECTED | | | | | | | | | Bed Material Composition | | | GENERAL DATA OF THE RIVER | | | | | Bed Material Composition | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | R.D.(m) | LAB NO. | R.L. OF DRY BED (m) | R.L. OF BED LEVEL (m) | W.L.(GTS) OF THE SAMPLING DEPTH (m) | DEPTH OF WATER (m) | WIDTH (m) | VELOCITY (m/s) | DISCHARGE (m3/s) | MAX. SIZE (mm) | MIN. SIZE (mm) | MEAN SIZE (mm) | WETTED PERIMETER (m) | HYDRAULIC MEAN DEPTH (m) | MEAN VELOCITY (m/s) | SURFACE WATER SLOPE | DISCHARGE (m3/s) | MAX. SIZE (mm) | MIN. SIZE (mm) | MEAN SIZE (mm) |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| | **MONSOON 2015 25/09/2015** | | | | | | | | | | | | | | | | | | | | |
| 1 | 25/09/2015 | 180 | 1 | 117.4.20 | Dry Bed | | | 180.0 | - | - | 7.0 | 0.060 | 1.30 | | | | | | | | |
| 2 | 25/09/2015 | 290 | 2 | 118.260 | Dry Bed | | | 110.0 | - | - | 6.0 | 0.060 | 1.07 | | | | | | | | |
| 3 | 25/09/2015 | 400 | 3 | 118.240 | Dry Bed | | | 110.0 | - | - | 10.0 | 0.060 | 1.30 | | | | | | | | |
| 4 | 25/09/2015 | 510 | 4 | 117.700 | Dry Bed | | | 110.0 | - | - | 8.0 | 0.060 | 1.20 | | | | | | | | |
| 5 | 25/09/2015 | 620 | 5 | - | 116.255 | 116.495 | 0.240 | 110.0 | 0.457 | 0.2194 | 15.0 | 0.060 | 1.61 | 36.121 | 0.4153 | 0.6608 | 0.0008 | 9.912 | 15.0 | 0.060 | 1.290 |
| 6 | 25/09/2015 | 730 | 6 | 116.820 | Dry Bed | | | 110.0 | - | - | 12.0 | 0.060 | 1.24 | | | | | | | | |
| 7 | 25/09/2015 | 840 | 7 | 118.310 | Dry Bed | | | 110.0 | - | - | 15.0 | 0.060 | 1.31 | | | | | | | | |
| | **POST MONSOON 2016 14/01/2016** | | | | | | | | | | | | | | | | | | | | |
| 1 | 14/01/2016 | 180 | 38 | 117.400 | Dry Bed | | | 180.0 | - | - | 10.0 | 0.060 | 1.24 | River Dry Bed | | | | | | | |
| 2 | 14/01/2016 | 290 | 39 | 118.185 | Dry Bed | | | 110.0 | - | - | 10.0 | 0.060 | 1.31 | | | | | | | | |
| 3 | 14/01/2016 | 400 | 40 | 118.150 | Dry Bed | | | 110.0 | - | - | 8.0 | 0.060 | 1.16 | | | | | | | | |
| 4 | 14/01/2016 | 510 | 41 | 117.740 | Dry Bed | | | 110.0 | - | - | 7.0 | 0.060 | 1.25 | | | | | | | | |
| 5 | 14/01/2016 | 620 | 42 | 116.235 | - | 116.235 | - | 110.0 | - | - | 11.0 | 0.060 | 1.71 | | | | | | 25.0 | 0.060 | 1.381 |
| 6 | 14/01/2016 | 730 | 43 | 116.805 | Dry Bed | | | 110.0 | - | - | 25.0 | 0.060 | 1.66 | | | | | | | | |
| 7 | 14/01/2016 | 840 | 44 | 118.240 | Dry Bed | | | 110.0 | - | - | 10.0 | 0.060 | 1.34 | | | | | | | | |
| | **PRE MONSOON 2016 04/05/2016** | | | | | | | | | | | | | | | | | | | | |
| 1 | 04/05/2016 | 180 | 75 | 117.410 | Dry Bed | | | 180.0 | - | - | 8.0 | 0.060 | 1.24 | River Dry Bed | | | | | | | |
| 2 | 04/05/2016 | 290 | 76 | 118.125 | Dry Bed | | | 110.0 | - | - | 15.0 | 0.060 | 1.25 | | | | | | | | |
| 3 | 04/05/2016 | 400 | 77 | 118.010 | Dry Bed | | | 110.0 | - | - | 14.0 | 0.060 | 1.07 | | | | | | | | |
| 4 | 04/05/2016 | 510 | 78 | 117.720 | Dry Bed | | | 110.0 | - | - | 18.0 | 0.060 | 1.24 | | | | | | | | |
| 5 | 04/05/2016 | 620 | 79 | 116.205 | Dry Bed | | | 110.0 | - | - | 22.0 | 0.060 | 3.86 | | | | | | 22.0 | 0.060 | 1.647 |
| 6 | 04/05/2016 | 730 | 80 | 116.730 | Dry Bed | | | 110.0 | - | - | 11.0 | 0.060 | 1.08 | | | | | | | | |
| 7 | 04/05/2016 | 840 | 81 | 118.010 | Dry Bed | | | 110.0 | - | - | 22.0 | 0.060 | 1.79 | | | | | | | | |

**Annual Sediment Load for period : 1997-2016**

**Station Name : Alladupalli ( APF00B8)** **Division : Hydrology Division, Chennai**

**Local River : Kunderu** **Sub-Division : PSD, Kadapa**

| Year | Monsoon (M.T.) | Non-Monsoon (M.T.) | Annual Load (M.T.) | Annual Run Off (MCM) |
|---|---|---|---|---|
| **1997-1998** | 684828 | 9164 | 693991 | 1257 |
| **1998-1999** | SEDIMENT DATA NOT PUBLISHED | | | 2797 |
| **1999-2000** | SEDIMENT DATA NOT PUBLISHED | | | 1241 |
| **2000-2001** | 1422669 | 56304 | 1478973 | 3652 |
| **2001-2002** | SEDIMENT OBSERVATION NOT DONE | | | 1530 |
| **2002-2003** | 199991 | 241 | 200232 | 226 |
| **2003-2004** | 331223 | 2246 | 333469 | 275 |
| **2004-2005** | 286427 | 6163 | 292590 | 1372 |
| **2005-2006** | 557405 | 12877 | 570282 | 3540 |
| **2006-2007** | SEDIMENT OBSERVATION NOT DONE | | | 1623 |
| **2007-2008** | SEDIMENT OBSERVATION NOT DONE | | | 2894 |
| **2008-2009** | 965 | 303 | 1267 | 893 |
| **2009-2010** | 396235 | 19186 | 415421 | 2092 |
| **2010-2011** | 365263 | 184476 | 549739 | 3131 |
| **2011-2012** | 364667 | 59298 | 423965 | 2001 |
| **2012-2013** | 134951 | 13281 | 148233 | 639 |
| **2013-2014** | 491340 | 41967 | 533307 | 3184 |
| **2014-2015** | 322327 | 24822 | 347148 | 2879 |
| **2015-2016** | 27337 | 1921 | 29258 | 279 |

## Daily Observed Sediment Datasheet for period : 2015-2016

**Station Name : Alladupalli ( APF00B8)** **Division : Hydrology Division, Chennai**

**Local River : Kunderu** **Sub-Division : PSD, Kadapa**

| Day | Jun | | | | | | Jul | | | | | | Aug | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day |
| 1 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 2.355 | 0.000 | 0.000 | 0.069 | 0.069 | 14 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 2 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 2.995 | 0.000 | 0.000 | 0.114 | 0.114 | 29 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 3 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 1.139 | 0.000 | 0.000 | 0.131 | 0.131 | 13 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 4 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.753 | 0.000 | 0.000 | 0.014 | 0.014 | 1 | 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 | 4.016 | 0.000 | 0.000 | 0.102 | 0.102 | 35 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 16 | 3.228 | 0.000 | 0.000 | 0.085 | 0.085 | 24 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 17 | 3.018 | 0.000 | 0.000 | 0.068 | 0.068 | 18 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 18 | 2.325 | 0.000 | 0.000 | 0.111 | 0.111 | 22 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 19 | 2.147 | 0.000 | 0.000 | 0.079 | 0.079 | 15 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 20 | 2.314 | 0.000 | 0.000 | 0.107 | 0.107 | 21 | 4.444 | 0.000 | 0.000 | 0.083 | 0.083 | 32 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 21 | 2.706 | 0.000 | 0.000 | 0.085 | 0.085 | 20 | 4.447 | 0.000 | 0.000 | 0.062 | 0.062 | 24 | 0.641 | 0.000 | 0.000 | 0.211 | 0.211 | 12 |
| 22 | 2.470 | 0.000 | 0.000 | 0.078 | 0.078 | 17 | 2.661 | 0.000 | 0.000 | 0.122 | 0.122 | 28 | 36.15 | 0.000 | 0.000 | 0.339 | 0.339 | 1059 |
| 23 | 2.406 | 0.000 | 0.000 | 0.117 | 0.117 | 24 | 2.784 | 0.000 | 0.000 | 0.081 | 0.081 | 20 | 24.84 | 0.000 | 0.000 | 0.140 | 0.140 | 301 |
| 24 | 2.437 | 0.000 | 0.000 | 0.093 | 0.093 | 20 | 1.594 | 0.000 | 0.000 | 0.111 | 0.111 | 15 | 24.84 | 0.000 | 0.000 | 0.140 | 0.140 | 301 |
| 25 | 2.072 | 0.000 | 0.000 | 0.097 | 0.097 | 17 | 1.464 | 0.000 | 0.000 | 0.079 | 0.079 | 10 | 7.436 | 0.000 | 0.000 | 0.129 | 0.129 | 83 |
| 26 | 2.171 | 0.000 | 0.000 | 0.099 | 0.099 | 19 | 1.201 | 0.000 | 0.000 | 0.081 | 0.081 | 8 | 3.432 | 0.000 | 0.000 | 0.128 | 0.128 | 38 |
| 27 | 1.870 | 0.000 | 0.000 | 0.078 | 0.078 | 13 | 3.451 | 0.000 | 0.000 | 0.066 | 0.066 | 20 | 1.320 | 0.000 | 0.000 | 0.111 | 0.111 | 13 |
| 28 | 1.631 | 0.000 | 0.000 | 0.078 | 0.078 | 11 | 3.543 | 0.000 | 0.000 | 0.076 | 0.076 | 23 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 29 | 2.242 | 0.000 | 0.000 | 0.077 | 0.077 | 15 | 3.415 | 0.000 | 0.000 | 0.068 | 0.068 | 20 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 30 | 2.390 | 0.000 | 0.000 | 0.073 | 0.073 | 15 | 3.169 | 0.000 | 0.000 | 0.062 | 0.062 | 17 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 31 | | | | | | | 0.738 | 0.000 | 0.000 | 0.015 | 0.015 | 1 | 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 | 0.724 | 0.000 | 0.000 | 0.033 | 0.033 | 6 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| Ten Daily II | 1.705 | 0.000 | 0.000 | 0.055 | 0.055 | 14 | 0.444 | 0.000 | 0.000 | 0.008 | 0.008 | 3 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| Ten Daily III | 2.240 | 0.000 | 0.000 | 0.087 | 0.087 | 17 | 2.588 | 0.000 | 0.000 | 0.075 | 0.075 | 17 | 8.969 | 0.000 | 0.000 | 0.109 | 0.109 | 164 |
| Monthly | | | | | | | | | | | | | | | | | | |
| Total | | | | | | 305 | | | | | | 275 | | | | | | 1807 |

**Annual Sediment Load (Metric Tonnes) : 29258**

## Daily Observed Sediment Datasheet for period : 2015-2016

**Station Name : Alladupalli ( APF00B8)** **Division : Hydrology Division, Chennai**

**Local River : Kunderu** **Sub-Division : PSD, Kadapa**

| Day | Sep | | | | | | Oct | | | | | | Nov | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day |
| 1 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 24.77 | 0.000 | 0.000 | 0.148 | 0.148 | 316 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 2 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 20.60 | 0.000 | 0.000 | 0.158 | 0.158 | 282 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 3 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 35.82 | 0.000 | 0.000 | 0.119 | 0.119 | 369 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 4 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 217.7 | 0.000 | 0.000 | 0.097 | 0.097 | 1830 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 97.70 | 0.000 | 0.000 | 0.192 | 0.192 | 1619 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 6 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 63.66 | 0.000 | 0.000 | 0.114 | 0.114 | 625 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 7 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 64.04 | 0.000 | 0.000 | 0.124 | 0.124 | 687 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 8 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 137.1 | 0.000 | 0.000 | 0.171 | 0.171 | 2022 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 9 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 172.8 | 0.000 | 0.000 | 0.098 | 0.098 | 1462 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 10 | 3.430 | 0.000 | 0.000 | 0.113 | 0.113 | 33 | 83.08 | 0.000 | 0.000 | 0.056 | 0.056 | 401 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 11 | 109.8 | 0.000 | 0.000 | 0.061 | 0.061 | 578 | 69.67 | 0.000 | 0.000 | 0.073 | 0.073 | 439 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 12 | 257.9 | 0.000 | 0.000 | 0.047 | 0.047 | 1049 | 39.31 | 0.000 | 0.000 | 0.118 | 0.118 | 401 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 13 | 189.9 | 0.000 | 0.000 | 0.046 | 0.046 | 753 | 25.66 | 0.000 | 0.000 | 0.132 | 0.132 | 293 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 14 | 110.5 | 0.000 | 0.000 | 0.045 | 0.045 | 426 | 25.63 | 0.000 | 0.000 | 0.168 | 0.168 | 371 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 15 | 31.72 | 0.000 | 0.000 | 0.082 | 0.082 | 226 | 24.02 | 0.000 | 0.000 | 0.178 | 0.178 | 369 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 16 | 34.49 | 0.000 | 0.000 | 0.075 | 0.075 | 224 | 15.65 | 0.000 | 0.000 | 0.085 | 0.085 | 115 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 17 | 31.84 | 0.000 | 0.000 | 0.072 | 0.072 | 199 | 15.89 | 0.000 | 0.000 | 0.058 | 0.058 | 79 | 16.74 | 0.000 | 0.000 | 0.076 | 0.076 | 110 |
| 18 | 18.66 | 0.000 | 0.000 | 0.058 | 0.058 | 94 | 7.112 | 0.000 | 0.000 | 0.069 | 0.069 | 42 | 19.48 | 0.000 | 0.000 | 0.126 | 0.126 | 211 |
| 19 | 19.35 | 0.000 | 0.000 | 0.171 | 0.171 | 285 | 3.048 | 0.000 | 0.000 | 0.074 | 0.074 | 19 | 14.16 | 0.000 | 0.000 | 0.270 | 0.270 | 330 |
| 20 | 19.99 | 0.000 | 0.000 | 0.134 | 0.134 | 231 | 3.015 | 0.000 | 0.000 | 0.071 | 0.071 | 18 | 13.28 | 0.000 | 0.000 | 0.105 | 0.105 | 120 |
| 21 | 20.14 | 0.000 | 0.000 | 0.125 | 0.125 | 217 | 2.253 | 0.000 | 0.000 | 0.076 | 0.076 | 15 | 20.96 | 0.000 | 0.000 | 0.089 | 0.089 | 162 |
| 22 | 19.50 | 0.000 | 0.000 | 0.133 | 0.133 | 225 | 1.153 | 0.000 | 0.000 | 0.082 | 0.082 | 8 | 19.40 | 0.000 | 0.000 | 0.221 | 0.221 | 371 |
| 23 | 19.97 | 0.000 | 0.000 | 0.216 | 0.216 | 373 | 1.153 | 0.000 | 0.000 | 0.082 | 0.082 | 8 | 19.40 | 0.000 | 0.000 | 0.221 | 0.221 | 371 |
| 24 | 6.172 | 0.000 | 0.000 | 0.120 | 0.120 | 64 | 1.153 | 0.000 | 0.000 | 0.082 | 0.082 | 8 | 7.835 | 0.000 | 0.000 | 0.139 | 0.139 | 94 |
| 25 | 4.504 | 0.000 | 0.000 | 0.109 | 0.109 | 42 | 0.758 | 0.000 | 0.000 | 0.054 | 0.054 | 4 | 10.42 | 0.000 | 0.000 | 0.104 | 0.104 | 94 |
| 26 | 4.554 | 0.000 | 0.000 | 0.158 | 0.158 | 62 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 4.430 | 0.000 | 0.000 | 0.185 | 0.185 | 71 |
| 27 | 160.8 | 0.000 | 0.000 | 0.123 | 0.123 | 1713 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 4.263 | 0.000 | 0.000 | 0.183 | 0.183 | 67 |
| 28 | 220.7 | 0.000 | 0.000 | 0.110 | 0.110 | 2094 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 4.197 | 0.000 | 0.000 | 0.199 | 0.199 | 72 |
| 29 | 213.0 | 0.000 | 0.000 | 0.095 | 0.095 | 1750 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 4.279 | 0.000 | 0.000 | 0.197 | 0.197 | 73 |
| 30 | 39.99 | 0.000 | 0.000 | 0.086 | 0.086 | 297 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 3.576 | 0.000 | 0.000 | 0.213 | 0.213 | 66 |
| 31 | | | | | | | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | | | | | | |
| Ten Daily Mean | | | | | | | | | | | | | | | | | | |
| Ten Daily I | 0.343 | 0.000 | 0.000 | 0.011 | 0.011 | 3 | 91.73 | 0.000 | 0.000 | 0.128 | 0.128 | 961 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| Ten Daily II | 82.41 | 0.000 | 0.000 | 0.079 | 0.079 | 406 | 22.90 | 0.000 | 0.000 | 0.103 | 0.103 | 215 | 6.365 | 0.000 | 0.000 | 0.058 | 0.058 | 77 |
| Ten Daily III | 70.94 | 0.000 | 0.000 | 0.128 | 0.128 | 684 | 0.588 | 0.000 | 0.000 | 0.034 | 0.034 | 4 | 9.876 | 0.000 | 0.000 | 0.175 | 0.175 | 144 |
| Monthly | | | | | | | | | | | | | | | | | | |
| Total | | | | | | 10935 | | | | | | 11804 | | | | | | 2212 |

**Annual Sediment Load (Metric Tonnes) : 29258**

## Daily Observed Sediment Datasheet for period : 2015-2016

**Station Name : Alladupalli ( APF00B8)** **Division : Hydrology Division, Chennai**

**Local River : Kunderu** **Sub-Division : PSD, Kadapa**

| Day | Dec | | | | | | Jan | | | | | | Feb | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day |
| 1 | 4.485 | 0.000 | 0.000 | 0.096 | 0.096 | 37 | 0.656 | 0.000 | 0.000 | 0.042 | 0.042 | 2 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 2 | 4.477 | 0.000 | 0.000 | 0.136 | 0.136 | 53 | 0.660 | 0.000 | 0.000 | 0.042 | 0.042 | 2 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 3 | 14.57 | 0.000 | 0.000 | 0.130 | 0.130 | 163 | 0.585 | 0.000 | 0.000 | 0.037 | 0.037 | 2 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 4 | 7.691 | 0.000 | 0.000 | 0.102 | 0.102 | 68 | 0.512 | 0.000 | 0.000 | 0.033 | 0.033 | 1 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 5 | 7.732 | 0.000 | 0.000 | 0.065 | 0.065 | 43 | 0.396 | 0.000 | 0.000 | 0.025 | 0.025 | 1 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 6 | 7.994 | 0.000 | 0.000 | 0.022 | 0.022 | 15 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 7 | 6.952 | 0.000 | 0.000 | 0.194 | 0.194 | 116 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 8 | 6.143 | 0.000 | 0.000 | 0.064 | 0.064 | 34 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 9 | 6.534 | 0.000 | 0.000 | 0.078 | 0.078 | 44 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 10 | 5.081 | 0.000 | 0.000 | 0.088 | 0.088 | 39 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 11 | 6.153 | 0.000 | 0.000 | 0.103 | 0.103 | 55 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 12 | 6.231 | 0.000 | 0.000 | 0.098 | 0.098 | 53 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 13 | 5.812 | 0.000 | 0.000 | 0.113 | 0.113 | 57 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 14 | 5.483 | 0.000 | 0.000 | 0.125 | 0.125 | 59 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 15 | 4.307 | 0.000 | 0.000 | 0.136 | 0.136 | 51 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 16 | 3.916 | 0.000 | 0.000 | 0.107 | 0.107 | 36 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 17 | 2.942 | 0.000 | 0.000 | 0.164 | 0.164 | 42 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 18 | 2.889 | 0.000 | 0.000 | 0.112 | 0.112 | 28 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 19 | 2.031 | 0.000 | 0.000 | 0.130 | 0.130 | 23 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 20 | 2.311 | 0.000 | 0.000 | 0.047 | 0.047 | 9 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 21 | 0.827 | 0.000 | 0.000 | 0.053 | 0.053 | 4 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 22 | 0.836 | 0.000 | 0.000 | 0.053 | 0.053 | 4 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 23 | 0.838 | 0.000 | 0.000 | 0.053 | 0.053 | 4 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 24 | 0.688 | 0.000 | 0.000 | 0.044 | 0.044 | 3 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 25 | 0.663 | 0.000 | 0.000 | 0.042 | 0.042 | 2 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 26 | 0.684 | 0.000 | 0.000 | 0.044 | 0.044 | 3 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 27 | 0.663 | 0.000 | 0.000 | 0.042 | 0.042 | 2 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 28 | 0.643 | 0.000 | 0.000 | 0.041 | 0.041 | 2 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 29 | 0.656 | 0.000 | 0.000 | 0.042 | 0.042 | 2 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 30 | 0.657 | 0.000 | 0.000 | 0.042 | 0.042 | 2 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | | | | | | |
| 31 | 0.658 | 0.000 | 0.000 | 0.042 | 0.042 | 2 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | | | | | | |
| **Ten Daily Mean** | | | | | | | | | | | | | | | | | | |
| Ten Daily I | 7.166 | 0.000 | 0.000 | 0.097 | 0.097 | 61 | 0.281 | 0.000 | 0.000 | 0.018 | 0.018 | 1 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| Ten Daily II | 4.208 | 0.000 | 0.000 | 0.114 | 0.114 | 41 | 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 | 0.710 | 0.000 | 0.000 | 0.045 | 0.045 | 3 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| **Monthly** | | | | | | | | | | | | | | | | | | |
| **Total** | | | | | | 1055 | | | | | | 9 | | | | | | 0 |

**Annual Sediment Load (Metric Tonnes) : 29258**

## Daily Observed Sediment Datasheet for period : 2015-2016

**Station Name : Alladupalli ( APF00B8)** **Division : Hydrology Division, Chennai**

**Local River : Kunderu** **Sub-Division : PSD, Kadapa**

| Day | Mar | | | | | | Apr | | | | | | May | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total 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 | 1.147 | 0.000 | 0.000 | 0.099 | 0.099 | 10 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 6 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 1.147 | 0.000 | 0.000 | 0.206 | 0.206 | 20 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 7 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 1.147 | 0.000 | 0.000 | 0.121 | 0.121 | 12 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 8 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 1.147 | 0.000 | 0.000 | 0.077 | 0.077 | 8 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 9 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 1.147 | 0.000 | 0.000 | 0.081 | 0.081 | 8 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 10 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 1.147 | 0.000 | 0.000 | 0.081 | 0.081 | 8 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 11 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 1.147 | 0.000 | 0.000 | 0.138 | 0.138 | 14 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 12 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 2.698 | 0.000 | 0.000 | 0.110 | 0.110 | 26 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 13 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 2.648 | 0.000 | 0.000 | 0.105 | 0.105 | 24 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 14 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 2.607 | 0.000 | 0.000 | 0.258 | 0.258 | 58 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 15 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 2.634 | 0.000 | 0.000 | 0.260 | 0.260 | 59 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 16 | 2.776 | 0.000 | 0.000 | 0.180 | 0.180 | 43 | 3.027 | 0.000 | 0.000 | 0.212 | 0.212 | 55 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 17 | 3.049 | 0.000 | 0.000 | 0.019 | 0.019 | 5 | 2.607 | 0.000 | 0.000 | 0.182 | 0.182 | 41 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 18 | 2.983 | 0.000 | 0.000 | 0.180 | 0.180 | 46 | 3.031 | 0.000 | 0.000 | 0.220 | 0.220 | 58 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 19 | 3.157 | 0.000 | 0.000 | 0.087 | 0.087 | 24 | 3.118 | 0.000 | 0.000 | 0.159 | 0.159 | 43 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 20 | 1.791 | 0.000 | 0.000 | 0.067 | 0.067 | 10 | 2.607 | 0.000 | 0.000 | 0.133 | 0.133 | 30 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 21 | 1.262 | 0.000 | 0.000 | 0.059 | 0.059 | 6 | 3.013 | 0.000 | 0.000 | 0.085 | 0.085 | 22 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 22 | 0.445 | 0.000 | 0.000 | 0.021 | 0.021 | 1 | 4.902 | 0.000 | 0.000 | 0.096 | 0.096 | 40 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 23 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 4.871 | 0.000 | 0.000 | 0.157 | 0.157 | 66 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 24 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 4.800 | 0.000 | 0.000 | 0.154 | 0.154 | 64 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 25 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 3.374 | 0.000 | 0.000 | 0.103 | 0.103 | 30 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 26 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 1.384 | 0.000 | 0.000 | 0.069 | 0.069 | 8 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 27 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 1.147 | 0.000 | 0.000 | 0.170 | 0.170 | 17 | 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 | 0.688 | 0.000 | 0.000 | 0.067 | 0.067 | 7 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| Ten Daily II | 1.376 | 0.000 | 0.000 | 0.053 | 0.053 | 13 | 2.612 | 0.000 | 0.000 | 0.178 | 0.178 | 41 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| Ten Daily III | 0.155 | 0.000 | 0.000 | 0.007 | 0.007 | 1 | 2.349 | 0.000 | 0.000 | 0.083 | 0.083 | 25 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| Monthly | | | | | | | | | | | | | | | | | | |
| Total | | | | | | 136 | | | | | | 721 | | | | | | 0 |

**Annual Sediment Load (Metric Tonnes) : 29258**

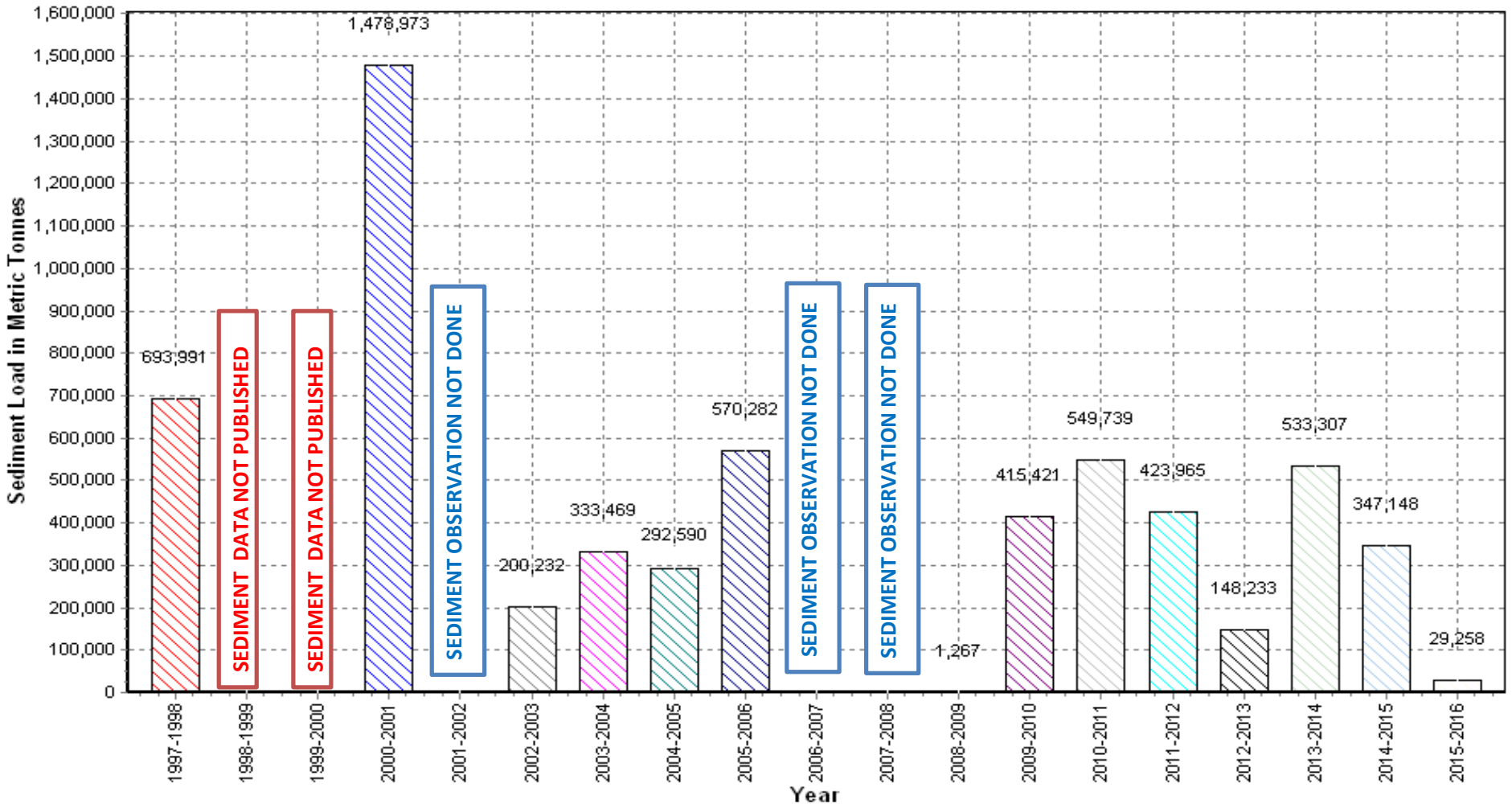
**Annual Sediment Load for the period: 1997-2016**

**Station Name : Alladupalli ( APF00B8)**

**Local River : Kunderu**

**Division : Hydrology Division, Chennai**

**Sub-Division : PSD, Kadapa**



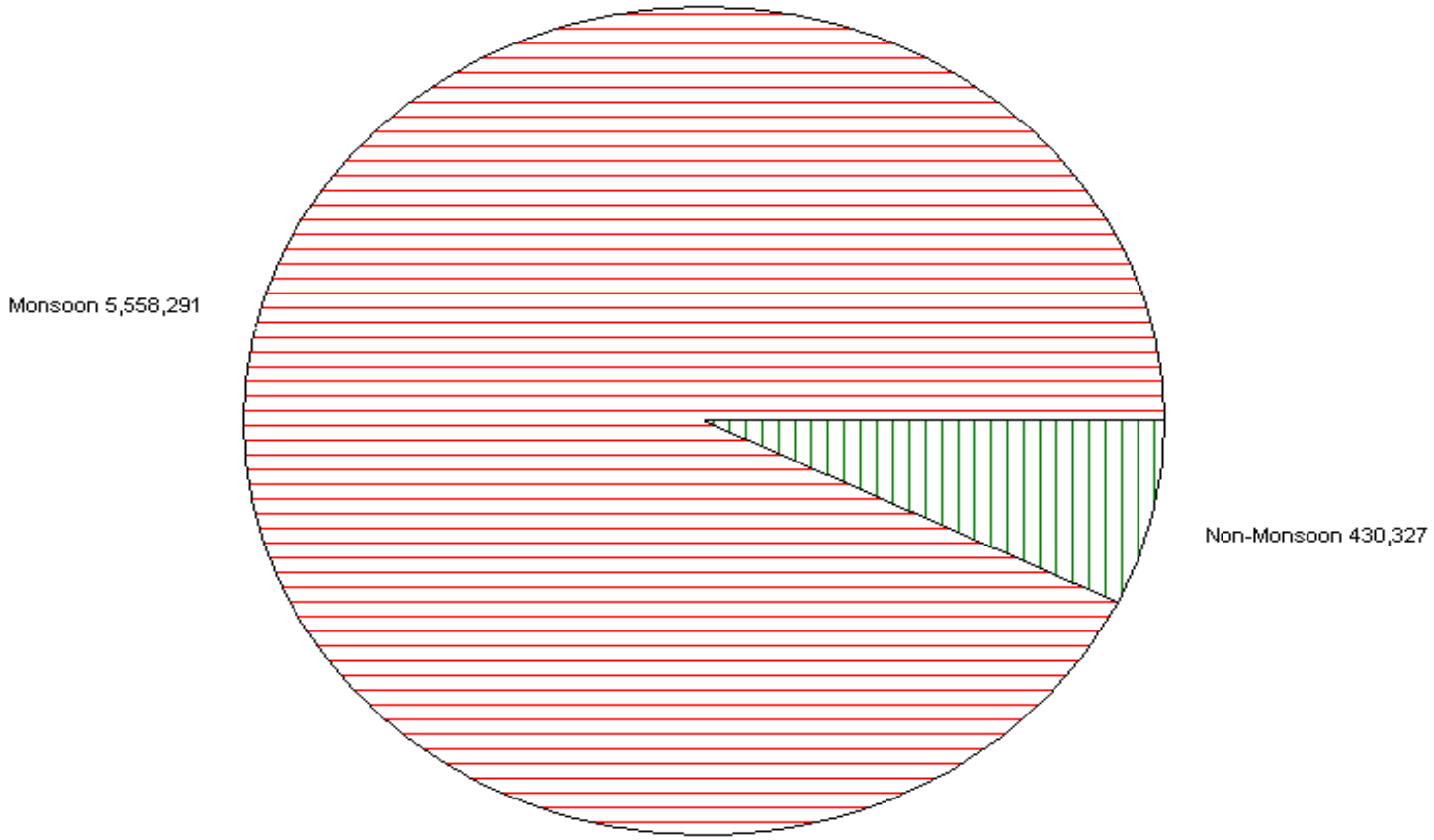
**Seasonal Sediment Load for the period : 1997-2015**

**Station Name : Alladupalli ( APF00B8)**

**Local River : Kunderu**

**Division : Hydrology Division, Chennai**

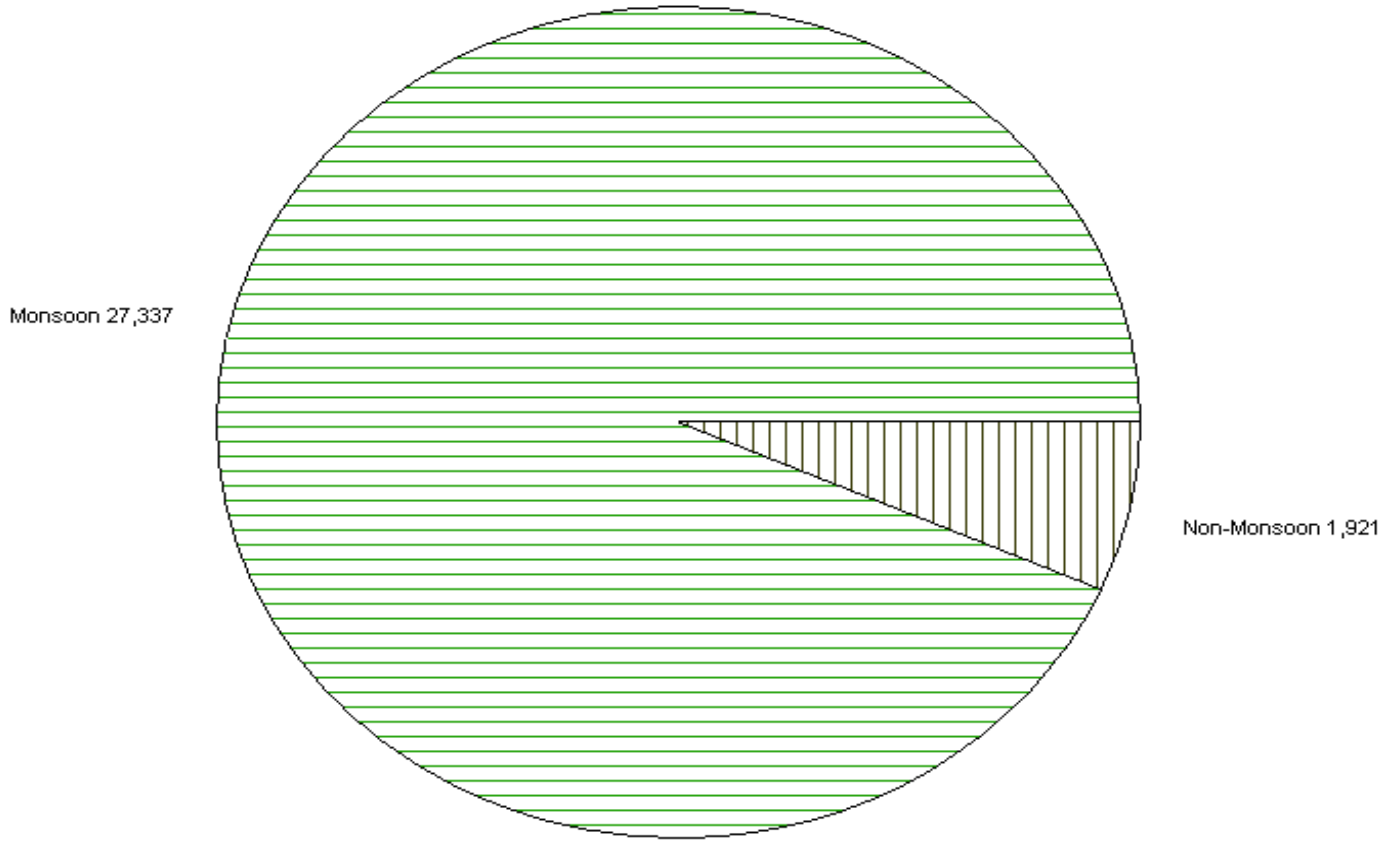
**Sub-Division : PSD, Kadapa**



**Seasonal Sediment Load for the Year: 2015-2016**

**Station Name : Alladupalli ( APF00B8)**
**Local River : Kunderu**

**Division : Hydrology Division, Chennai**
**Sub-Division : PSD, Kadapa**



# BED MATERIAL ANALYSIS DATA

**RIVER : KUNDERU** **CODE No. : APF00B8**

**SITE : ALLADUPALLI** **CROSS SECTION : SGL**

| | | DATA FOR SAMPLE COLLECTED | | | | | | | | | | | | GENERAL DATA OF THE RIVER | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | Bed Material Composition | | | | | | | | Bed Material Composition | | |
| Sl.No. | DATE OF COLLECTION | R.D.(m) | LAB NO. | R.L. OF DRY BED (m) | R.L. OF BED LEVEL (m) | W.L.(GTS) OF THE SAMPLING DEPTH (m) | DEPTH OF WATER (m) | WIDTH (m) | VELOCITY (m/s) | DISCHARGE (m3/s) | MAX. SIZE (mm) | MIN. SIZE (mm) | MEAN SIZE (mm) | WETTED PERIMETER (m) | HYDRAULIC MEAN DEPTH (m) | MEAN VELOCITY (m/s) | SURFACE WATER SLOPE | DISCHARGE (m3/s) | MAX. SIZE (mm) | MIN. SIZE (mm) | MEAN SIZE (mm) |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| | **MONSOON 2015 25/09/2015** | | | | | | | | | | | | | | | | | | | | |
| 1 | 25/09/2015 | 140 | 8 | - | 132.595 | 133.575 | 0.98 | 400.0 | 0.679 | 0.2716 | 7.0 | 0.06 | 0.93 | | | | | | | | |
| 2 | 25/09/2015 | 180 | 9 | 133.960 | - | - | - | 400.0 | - | - | 9.0 | 0.06 | 2.42 | | | | | | | | |
| 3 | 25/09/2015 | 220 | 10 | 134.410 | - | - | - | 400.0 | - | - | 11.0 | 0.06 | 2.52 | | | | | | | | |
| 4 | 25/09/2015 | 260 | 11 | 134.720 | - | - | - | 400.0 | - | - | 15.00 | 0.06 | 0.70 | | | | | | | | |
| 5 | 25/09/2015 | 300 | 12 | 135.300 | - | - | - | 400.0 | - | 4.504 | 9.0 | 0.06 | 1.16 | 35.121 | 0.5168 | 0.2482 | 0.00025 | 4.504 | 15.0 | 0.060 | 1.546 |
| | **POST MONSOON 2016 14/01/2016** | | | | | | | | | | | | | | | | | | | | |
| 1 | 14/01/2016 | 140 | 45 | - | 132.535 | 133.255 | 0.72 | 400.0 | - | - | 12.0 | 0.06 | 1.51 | | | | | | | | |
| 2 | 14/01/2016 | 180 | 46 | 133.960 | - | - | - | 400.0 | - | - | 10.0 | 0.06 | 2.14 | | | | | | | | |
| 3 | 14/01/2016 | 220 | 47 | 134.410 | - | - | - | 400.0 | - | - | 25.0 | 0.06 | 3.25 | No Flow | | | | | | | |
| 4 | 14/01/2016 | 260 | 48 | 134.720 | - | - | - | 400.0 | - | - | 7.00 | 0.06 | 1.88 | | | | | | | | |
| 5 | 14/01/2016 | 300 | 49 | 135.300 | - | - | - | 400.0 | - | - | 11.0 | 0.06 | 2.02 | | | | | | 25.0 | 0.060 | 2.160 |
| | **PRE MONSOON 2016 05/05/2016** | | | | | | | | | | | | | | | | | | | | |
| 1 | 05/05/2016 | 140 | 82 | - | 132.649 | 133.280 | 0.64 | 400.0 | - | - | 8.0 | 0.06 | 1.61 | | | | | | | | |
| 2 | 05/05/2016 | 180 | 83 | 133.960 | - | - | - | 400.0 | - | - | 9.0 | 0.06 | 2.15 | | | | | | | | |
| 3 | 05/05/2016 | 220 | 84 | 134.410 | - | - | - | 400.0 | - | - | 12.0 | 0.06 | 2.01 | No Flow | | | | | | | |
| 4 | 05/05/2016 | 260 | 85 | 134.720 | - | - | - | 400.0 | - | - | 10.0 | 0.06 | 1.76 | | | | | | | | |
| 5 | 05/05/2016 | 300 | 86 | 135.300 | - | - | - | 400.0 | - | - | 8.0 | 0.06 | 1.64 | | | | | | 12.0 | 0.060 | 1.834 |

**Annual Sediment Load for period : 2013-2016**

**Station Name : Naidupeta ( AC000G4)** **Division : Hydrology Division, Chennai**

**Local River : Swarnamukhi** **Sub-Division : Palar Ponnaiyar SD, Chennai**

| Year | Monsoon (M.T.) | Non-Monsoon (M.T.) | Annual Load (M.T.) | Annual Run Off (MCM) |
|---|---|---|---|---|
| **2013-2014** | 537 | 270 | 807 | 50 |
| **2014-2015** | 95 | 216 | 311 | 24 |
| **2015-2016** | 144567 | 78170 | 222737 | 854 |

## Daily Observed Sediment Datasheet for period : 2015-2016

**Station Name : Naidupeta ( AC000G4)** | **Division : Hydrology Division, Chennai**

**Local River : Swarnamukhi** | **Sub-Division : Palar Ponnaiyar SD, Chennai**

| Day | Jun | | | | | | Jul | | | | | | Aug | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total 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) : 222737**

## Daily Observed Sediment Datasheet for period : 2015-2016

**Station Name : Naidupeta ( AC000G4)** | **Division : Hydrology Division, Chennai**

**Local River : Swarnamukhi** | **Sub-Division : Palar Ponnaiyar SD, Chennai**

| Day | Sep | | | | | | Oct | | | | | | Nov | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total 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 | 224.7 | 0.000 | 0.000 | 0.257 | 0.257 | 4993 |
| 12 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 130.9 | 0.000 | 0.000 | 0.058 | 0.058 | 653 |
| 13 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 136.8 | 0.000 | 0.000 | 0.028 | 0.028 | 326 |
| 14 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 86.53 | 0.000 | 0.000 | 0.023 | 0.023 | 172 |
| 15 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 73.25 | 0.000 | 0.000 | 0.020 | 0.020 | 125 |
| 16 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 950.4 | 0.000 | 0.000 | 0.229 | 0.229 | 18813 |
| 17 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 1100 | 0.000 | 0.000 | 0.445 | 0.445 | 42315 |
| 18 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 483.9 | 0.000 | 0.000 | 0.373 | 0.373 | 15599 |
| 19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 578.3 | 0.000 | 0.000 | 0.178 | 0.178 | 8909 |
| 20 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 738.5 | 0.000 | 0.000 | 0.233 | 0.233 | 14835 |
| 21 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 336.6 | 0.000 | 0.000 | 0.191 | 0.191 | 5546 |
| 22 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 310.3 | 0.000 | 0.000 | 0.192 | 0.192 | 5139 |
| 23 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 992.1 | 0.000 | 0.000 | 0.166 | 0.166 | 14255 |
| 24 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 420.4 | 0.000 | 0.000 | 0.198 | 0.198 | 7203 |
| 25 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 233.6 | 0.000 | 0.000 | 0.142 | 0.142 | 2870 |
| 26 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 135.6 | 0.000 | 0.000 | 0.113 | 0.113 | 1320 |
| 27 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 89.80 | 0.000 | 0.000 | 0.027 | 0.027 | 209 |
| 28 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 88.23 | 0.000 | 0.000 | 0.026 | 0.026 | 199 |
| 29 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 50.30 | 0.000 | 0.000 | 0.015 | 0.015 | 65 |
| 30 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 112.3 | 0.000 | 0.000 | 0.105 | 0.105 | 1021 |
| 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 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 450.4 | 0.000 | 0.000 | 0.184 | 0.184 | 10674 |
| 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 | 276.9 | 0.000 | 0.000 | 0.118 | 0.118 | 3783 |
| Monthly | | | | | | | | | | | | | | | | | | |
| Total | | | | | | 0 | | | | | | 0 | | | | | | 144567 |

**Annual Sediment Load (Metric Tonnes) : 222737**

## Daily Observed Sediment Datasheet for period : 2015-2016

**Station Name : Naidupeta ( AC000G4)** | **Division : Hydrology Division, Chennai**

**Local River : Swarnamukhi** | **Sub-Division : Palar Ponnaiyar SD, Chennai**

| Day | Dec | | | | | | Jan | | | | | | Feb | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day |
| 1 | 447.9 | 0.000 | 0.000 | 0.649 | 0.649 | 25114 | 0.954 | 0.000 | 0.000 | 0.002 | 0.002 | 0 | 3.851 | 0.000 | 0.000 | 0.004 | 0.004 | 1 |
| 2 | 574.5 | 0.000 | 0.000 | 0.832 | 0.832 | 41318 | 0.693 | 0.000 | 0.000 | 0.002 | 0.002 | 0 | 2.731 | 0.000 | 0.000 | 0.004 | 0.004 | 1 |
| 3 | 386.6 | 0.000 | 0.000 | 0.200 | 0.200 | 6671 | 0.614 | 0.000 | 0.000 | 0.002 | 0.002 | 0 | 3.380 | 0.000 | 0.000 | 0.004 | 0.004 | 1 |
| 4 | 230.1 | 0.000 | 0.000 | 0.122 | 0.122 | 2429 | 0.527 | 0.000 | 0.000 | 0.002 | 0.002 | 0 | 3.311 | 0.000 | 0.000 | 0.004 | 0.004 | 1 |
| 5 | 121.5 | 0.000 | 0.000 | 0.107 | 0.107 | 1120 | 0.347 | 0.000 | 0.000 | 0.002 | 0.002 | 0 | 2.479 | 0.000 | 0.000 | 0.003 | 0.003 | 1 |
| 6 | 116.0 | 0.000 | 0.000 | 0.095 | 0.095 | 956 | 0.311 | 0.000 | 0.000 | 0.001 | 0.001 | 0 | 2.924 | 0.000 | 0.000 | 0.003 | 0.003 | 1 |
| 7 | 81.42 | 0.000 | 0.000 | 0.024 | 0.024 | 171 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 1.795 | 0.000 | 0.000 | 0.003 | 0.003 | 0 |
| 8 | 66.60 | 0.000 | 0.000 | 0.015 | 0.015 | 87 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 1.009 | 0.000 | 0.000 | 0.003 | 0.003 | 0 |
| 9 | 53.68 | 0.000 | 0.000 | 0.012 | 0.012 | 54 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.670 | 0.000 | 0.000 | 0.002 | 0.002 | 0 |
| 10 | 53.57 | 0.000 | 0.000 | 0.012 | 0.012 | 56 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.320 | 0.000 | 0.000 | 0.001 | 0.001 | 0 |
| 11 | 53.24 | 0.000 | 0.000 | 0.005 | 0.005 | 25 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 12 | 49.94 | 0.000 | 0.000 | 0.003 | 0.003 | 14 | 1.795 | 0.000 | 0.000 | 0.002 | 0.002 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 13 | 38.73 | 0.000 | 0.000 | 0.010 | 0.010 | 34 | 2.731 | 0.000 | 0.000 | 0.002 | 0.002 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 14 | 37.03 | 0.000 | 0.000 | 0.003 | 0.003 | 11 | 3.268 | 0.000 | 0.000 | 0.002 | 0.002 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 15 | 30.53 | 0.000 | 0.000 | 0.005 | 0.005 | 13 | 5.507 | 0.000 | 0.000 | 0.002 | 0.002 | 1 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 16 | 25.06 | 0.000 | 0.000 | 0.005 | 0.005 | 10 | 5.153 | 0.000 | 0.000 | 0.002 | 0.002 | 1 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 17 | 20.11 | 0.000 | 0.000 | 0.006 | 0.006 | 10 | 5.153 | 0.000 | 0.000 | 0.002 | 0.002 | 1 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 18 | 15.78 | 0.000 | 0.000 | 0.002 | 0.002 | 2 | 2.994 | 0.000 | 0.000 | 0.002 | 0.002 | 0 | 2.240 | 0.000 | 0.000 | 0.004 | 0.004 | 1 |
| 19 | 16.23 | 0.000 | 0.000 | 0.002 | 0.002 | 2 | 4.360 | 0.000 | 0.000 | 0.002 | 0.002 | 1 | 2.479 | 0.000 | 0.000 | 0.004 | 0.004 | 1 |
| 20 | 12.66 | 0.000 | 0.000 | 0.006 | 0.006 | 6 | 4.943 | 0.000 | 0.000 | 0.002 | 0.002 | 1 | 0.949 | 0.000 | 0.000 | 0.003 | 0.003 | 0 |
| 21 | 9.477 | 0.000 | 0.000 | 0.009 | 0.009 | 8 | 6.001 | 0.000 | 0.000 | 0.002 | 0.002 | 1 | 0.747 | 0.000 | 0.000 | 0.002 | 0.002 | 0 |
| 22 | 6.581 | 0.000 | 0.000 | 0.010 | 0.010 | 6 | 8.948 | 0.000 | 0.000 | 0.003 | 0.003 | 2 | 2.731 | 0.000 | 0.000 | 0.003 | 0.003 | 1 |
| 23 | 6.635 | 0.000 | 0.000 | 0.012 | 0.012 | 7 | 7.376 | 0.000 | 0.000 | 0.002 | 0.002 | 1 | 4.160 | 0.000 | 0.000 | 0.010 | 0.010 | 4 |
| 24 | 3.554 | 0.000 | 0.000 | 0.009 | 0.009 | 3 | 7.033 | 0.000 | 0.000 | 0.002 | 0.002 | 1 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 25 | 3.554 | 0.000 | 0.000 | 0.009 | 0.009 | 3 | 8.759 | 0.000 | 0.000 | 0.002 | 0.002 | 1 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 26 | 3.225 | 0.000 | 0.000 | 0.008 | 0.008 | 2 | 6.247 | 0.000 | 0.000 | 0.002 | 0.002 | 1 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 27 | 2.479 | 0.000 | 0.000 | 0.007 | 0.007 | 1 | 5.597 | 0.000 | 0.000 | 0.002 | 0.002 | 1 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 28 | 1.851 | 0.000 | 0.000 | 0.006 | 0.006 | 1 | 4.695 | 0.000 | 0.000 | 0.005 | 0.005 | 2 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 29 | 1.308 | 0.000 | 0.000 | 0.006 | 0.006 | 1 | 3.300 | 0.000 | 0.000 | 0.004 | 0.004 | 1 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 30 | 1.287 | 0.000 | 0.000 | 0.007 | 0.007 | 1 | 3.661 | 0.000 | 0.000 | 0.004 | 0.004 | 1 | | | | | | |
| 31 | 1.311 | 0.000 | 0.000 | 0.006 | 0.006 | 1 | 2.731 | 0.000 | 0.000 | 0.003 | 0.003 | 1 | | | | | | |
| **Ten Daily Mean** | | | | | | | | | | | | | | | | | | |
| Ten Daily I | 213.2 | 0.000 | 0.000 | 0.207 | 0.207 | 7798 | 0.345 | 0.000 | 0.000 | 0.001 | 0.001 | 0 | 2.247 | 0.000 | 0.000 | 0.003 | 0.003 | 1 |
| Ten Daily II | 29.93 | 0.000 | 0.000 | 0.005 | 0.005 | 13 | 3.590 | 0.000 | 0.000 | 0.002 | 0.002 | 1 | 0.567 | 0.000 | 0.000 | 0.001 | 0.001 | 0 |
| Ten Daily III | 3.751 | 0.000 | 0.000 | 0.008 | 0.008 | 3 | 5.850 | 0.000 | 0.000 | 0.003 | 0.003 | 1 | 0.849 | 0.000 | 0.000 | 0.002 | 0.002 | 1 |
| **Monthly** | | | | | | | | | | | | | | | | | | |
| Total | | | | | | 78137 | | | | | | 20 | | | | | | 13 |

**Annual Sediment Load (Metric Tonnes) : 222737**

## Daily Observed Sediment Datasheet for period : 2015-2016

**Station Name : Naidupeta ( AC000G4)** | **Division : Hydrology Division, Chennai**

**Local River : Swarnamukhi** | **Sub-Division : Palar Ponnaiyar SD, Chennai**

| Day | Mar | | | | | | Apr | | | | | | May | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total 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) : 222737**

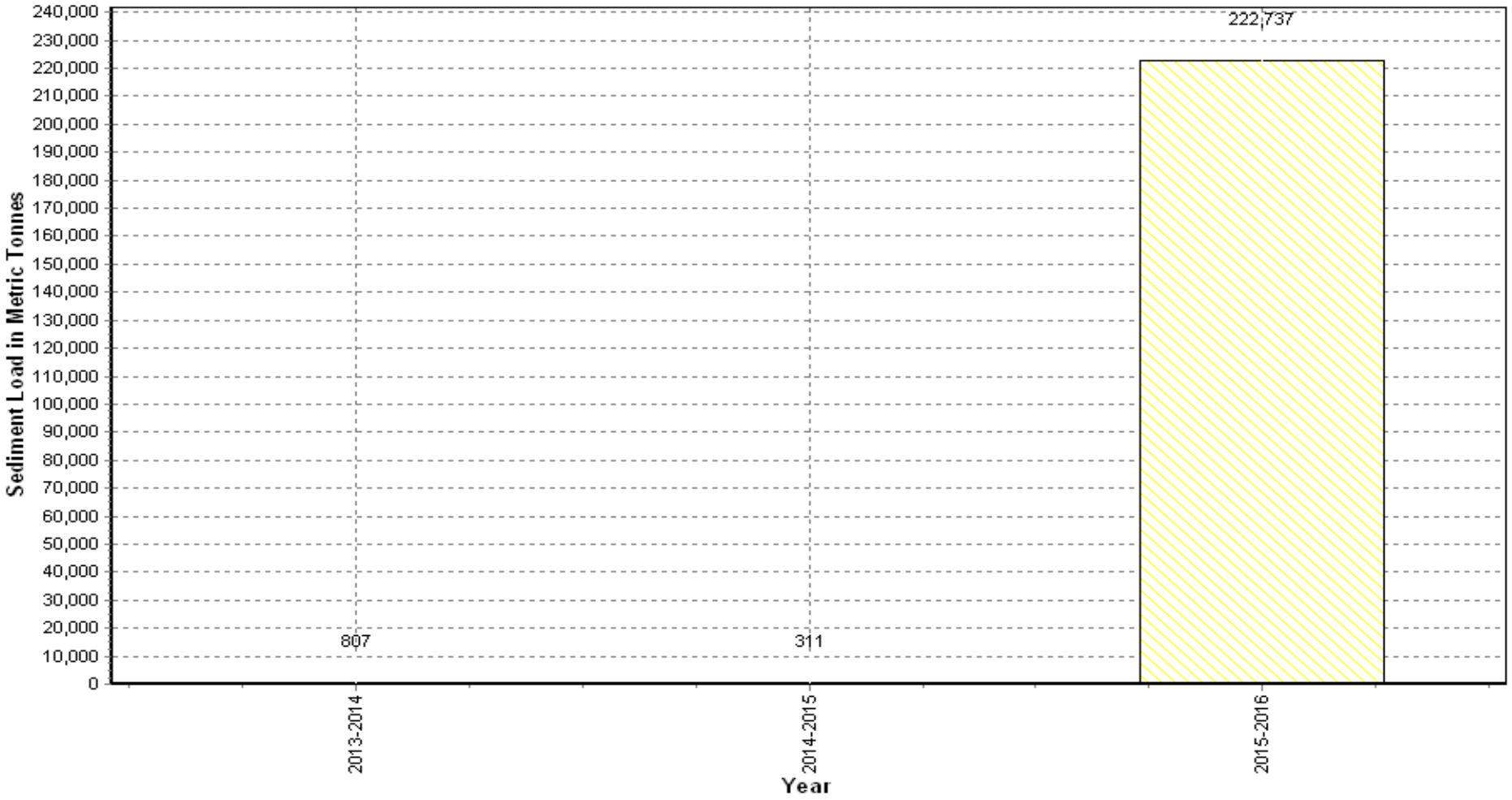
**Annual Sediment Load for the period: 2013-2016**

**Station Name : Naidupeta ( AC000G4)**

**Local River : Swarnamukhi**

**Division : Hydrology Division, Chennai**

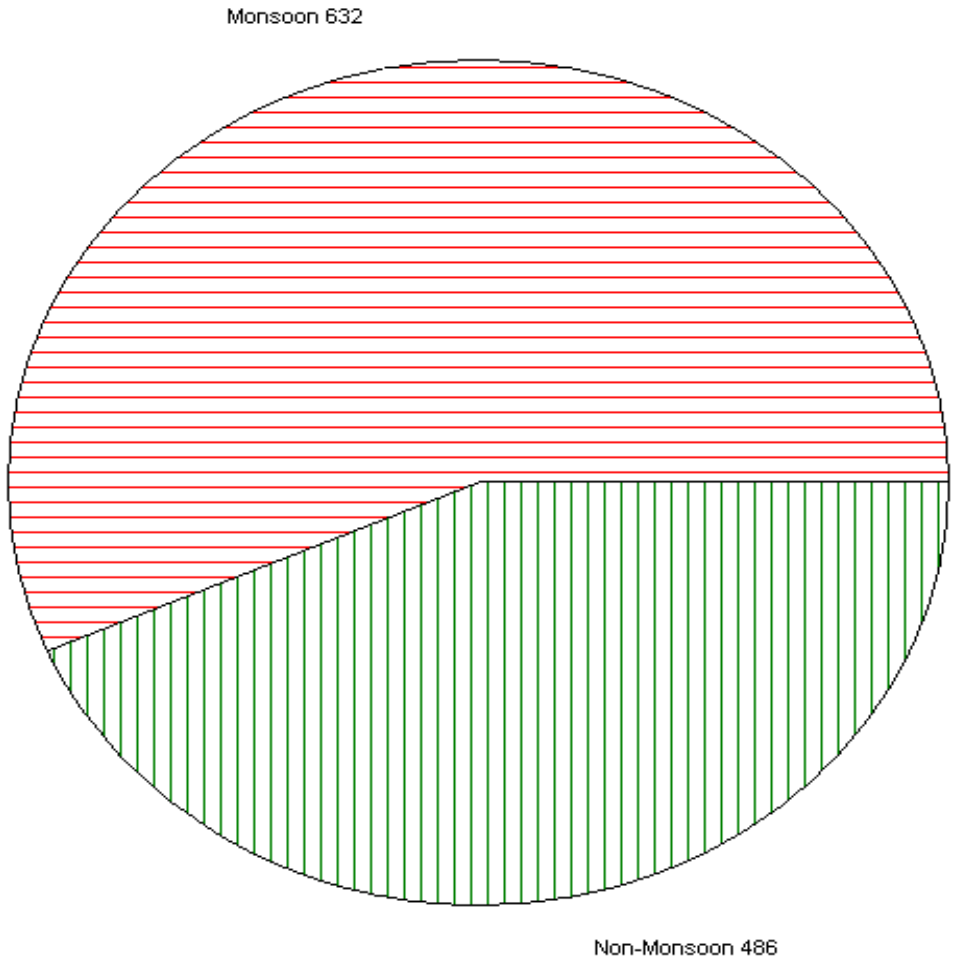
**Sub-Division : Palar Ponnaiyar SD, Chennai**



**Seasonal Sediment Load for the period : 2013-2015**

**Station Name : Naidupeta ( AC000G4)**
**Local River : Swarnamukhi**

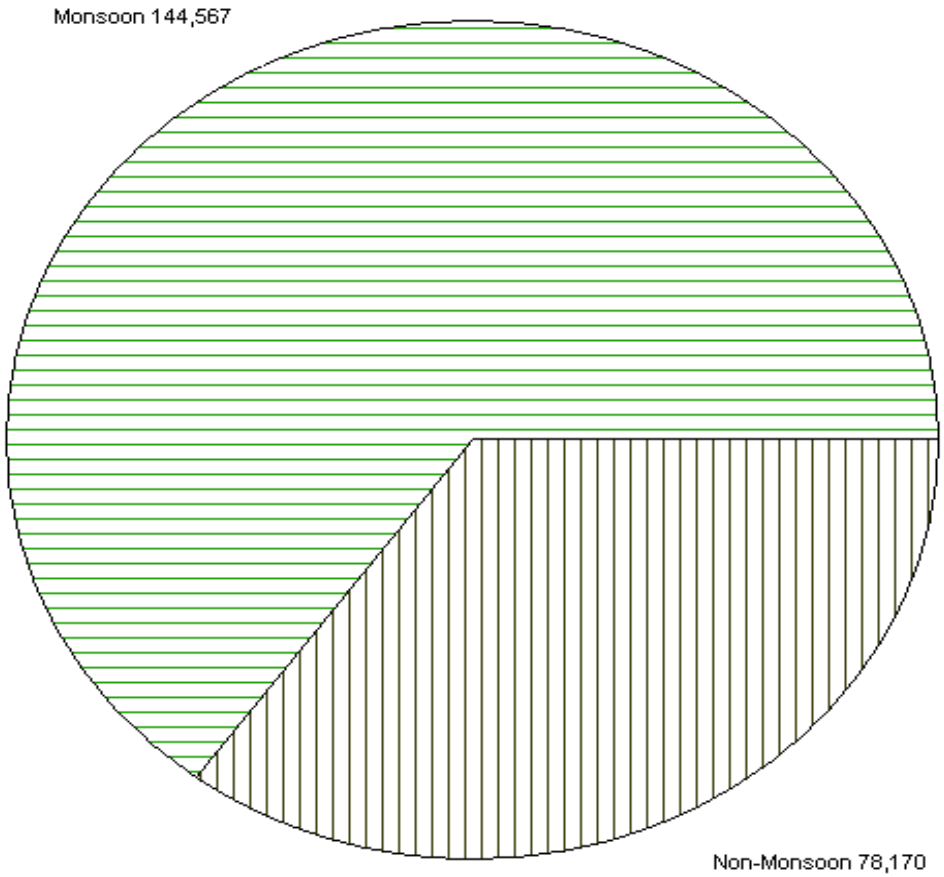
**Division : Hydrology Division, Chennai**
**Sub-Division : Palar Ponnaiyar SD, Chennai**



**Seasonal Sediment Load for the Year: 2015-2016**

**Station Name : Naidupeta ( AC000G4)**
**Local River : Swarnamukhi**

**Division : Hydrology Division, Chennai**
**Sub-Division : Palar Ponnaiyar SD, Chennai**



# BED MATERIAL ANALYSIS DATA

**RIVER : SWARNAMUKHI** **CODE No. : AC000G4**

**SITE : NAIDUPETA** **CROSS SECTION : SGL**

| Sl.No. | DATE OF COLLECTION | DATA FOR SAMPLE COLLECTED | | | | | | | | | | | | GENERAL DATA OF THE RIVER | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | Bed Material Composition | | | | | | | | | Bed Material Composition | |
| | | R.D.(m) | LAB NO. | R.L. OF DRY BED (m) | R.L. OF BED LEVEL (m) | W.L.(GTS) OF THE SAMPLING DEPTH (m) | DEPTH OF WATER (m) | WIDTH (m) | VELOCITY (m/s) | DISCHARGE (m3/s) | MAX. SIZE (mm) | MIN. SIZE (mm) | MEAN SIZE (mm) | WETTED PERIMETER (m) | HYDRAULIC MEAN DEPTH (m) | MEAN VELOCITY (m/s) | SURFACE WATER SLOPE | DISCHARGE (m3/s) | MAX. SIZE (mm) | MIN. SIZE (mm) | MEAN SIZE (mm) |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| | **MONSOON 2015 26/09/2015** | | | | | | | | | | | | | | | | | | | | |
| 1 | 26/09/2015 | 80 | 30 | 21.415 | | | | | | | 7.0 | 0.06 | 0.96 | | | | | | | | |
| 2 | 26/09/2015 | 150 | 31 | 20.780 | | | | | | | 7.0 | 0.06 | 0.97 | | | | | | | | |
| 3 | 26/09/2015 | 220 | 32 | 21.295 | Dry Bed | | | | | | 8.0 | 0.06 | 0.93 | River Bed Dry | | | | | | | |
| 4 | 26/09/2015 | 290 | 33 | 21.770 | | | | | | | 10.0 | 0.06 | 0.68 | | | | | | | | |
| 5 | 26/09/2015 | 360 | 34 | 21.865 | | | | | | | 9.0 | 0.06 | 0.61 | | | | | | 10.0 | 0.060 | 0.830 |
| | **POST MONSOON 2016 28/01/2016** | | | | | | | | | | | | | | | | | | | | |
| 1 | 28/01/2016 | 80 | 67 | - | 20.455 | 20.985 | 0.530 | 70.0 | 0.190 | 0.7049 | 4.5 | 0.06 | 0.88 | 139.023 | 0.1975 | 0.1682 | 0.0002 | 4.617 | 9.0 | 0.060 | 0.932 |
| 2 | 28/01/2016 | 150 | 68 | - | 20.330 | - | - | 70.0 | - | - | 7.0 | 0.06 | 0.98 | | | | | | | | |
| 3 | 28/01/2016 | 220 | 69 | - | 21.925 | - | - | 70.0 | - | - | 9.0 | 0.06 | 1.29 | | | | | | | | |
| 4 | 28/01/2016 | 290 | 70 | - | 22.180 | - | - | 70.0 | - | - | 6.0 | 0.06 | 0.64 | | | | | | | | |
| 5 | 28/01/2016 | 360 | 71 | - | 21.700 | - | - | 70.0 | - | - | 6.0 | 0.06 | 0.87 | | | | | | | | |
| | **PRE MONSOON 2016 18/05/2016** | | | | | | | | | | | | | | | | | | | | |
| 1 | 18/05/2016 | 80 | 101 | 20.480 | | | | | | | 12.0 | 0.06 | 0.96 | | | | | | | | |
| 2 | 18/05/2016 | 150 | 102 | 20.310 | | | | | | | 6.0 | 0.06 | 0.87 | | | | | | | | |
| 3 | 18/05/2016 | 220 | 103 | 21.890 | Dry Bed | | | | | | 8.0 | 0.06 | 1.00 | River Bed Dry | | | | | | | |
| 4 | 18/05/2016 | 290 | 104 | 22.160 | | | | | | | 16.0 | 0.06 | 1.66 | | | | | | | | |
| 5 | 18/05/2016 | 360 | 105 | 21.650 | | | | | | | 7.0 | 0.06 | 0.90 | | | | | | 16.0 | 0.060 | 1.078 |

**Annual Sediment Load for period : 2013-2016**

**Station Name : Sulurpet ( AB000N5)** **Division : Hydrology Division, Chennai**

**Local River : Kalingi** **Sub-Division : PPSD, Chennai**

| Year | Monsoon (M.T.) | Non-Monsoon (M.T.) | Annual Load (M.T.) | Annual Run Off (MCM) |
|---|---|---|---|---|
| **2013-2014** | 159 | 0 | 159 | 12 |
| **2014-2015** | 121 | 44 | 164 | 18 |
| **2015-2016** | 4032 | 1502 | 5533 | 550 |

## Daily Observed Sediment Datasheet for period : 2015-2016

**Station Name : Sulurpet ( AB000N5)** **Division : Hydrology Division, Chennai**

**Local River : Kalingi** **Sub-Division : PPSD, Chennai**

| Day | Jun | | | | | | Jul | | | | | | Aug | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total 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) : 5533**

## Daily Observed Sediment Datasheet for period : 2015-2016

**Station Name : Sulurpet ( AB000N5)** **Division : Hydrology Division, Chennai**

**Local River : Kalingi** **Sub-Division : PPSD, Chennai**

| Day | Sep | | | | | | Oct | | | | | | Nov | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total 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 | 277.8 | 0.000 | 0.000 | 0.008 | 0.008 | 182 |
| 11 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 53.72 | 0.000 | 0.000 | 0.009 | 0.009 | 41 |
| 12 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 57.35 | 0.000 | 0.000 | 0.021 | 0.021 | 104 |
| 13 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 112.2 | 0.000 | 0.000 | 0.013 | 0.013 | 129 |
| 14 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 62.73 | 0.000 | 0.000 | 0.015 | 0.015 | 81 |
| 15 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 10.63 | 0.000 | 0.000 | 0.015 | 0.015 | 14 |
| 16 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 874.5 | 0.000 | 0.000 | 0.008 | 0.008 | 597 |
| 17 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 639.2 | 0.000 | 0.000 | 0.008 | 0.008 | 425 |
| 18 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 214.4 | 0.000 | 0.000 | 0.008 | 0.008 | 141 |
| 19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 313.5 | 0.000 | 0.000 | 0.012 | 0.012 | 317 |
| 20 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 250.6 | 0.000 | 0.000 | 0.012 | 0.012 | 258 |
| 21 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 296.6 | 0.000 | 0.000 | 0.013 | 0.013 | 333 |
| 22 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 183.5 | 0.000 | 0.000 | 0.013 | 0.013 | 211 |
| 23 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 482.0 | 0.000 | 0.000 | 0.013 | 0.013 | 521 |
| 24 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 275.6 | 0.000 | 0.000 | 0.013 | 0.013 | 314 |
| 25 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 97.47 | 0.000 | 0.000 | 0.019 | 0.019 | 158 |
| 26 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 42.92 | 0.000 | 0.000 | 0.021 | 0.021 | 76 |
| 27 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 28.52 | 0.000 | 0.000 | 0.011 | 0.011 | 28 |
| 28 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 16.24 | 0.000 | 0.000 | 0.015 | 0.015 | 21 |
| 29 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 10.63 | 0.000 | 0.000 | 0.015 | 0.015 | 13 |
| 30 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 44.42 | 0.000 | 0.000 | 0.018 | 0.018 | 68 |
| 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 | 27.78 | 0.000 | 0.000 | 0.001 | 0.001 | 18 |
| 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 | 258.9 | 0.000 | 0.000 | 0.012 | 0.012 | 211 |
| 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 | 147.8 | 0.000 | 0.000 | 0.015 | 0.015 | 174 |
| Monthly | | | | | | | | | | | | | | | | | | |
| Total | | | | | | 0 | | | | | | 0 | | | | | | 4032 |

**Annual Sediment Load (Metric Tonnes) : 5533**

## Daily Observed Sediment Datasheet for period : 2015-2016

**Station Name : Sulurpet ( AB000N5)** **Division : Hydrology Division, Chennai**

**Local River : Kalingi** **Sub-Division : PPSD, Chennai**

| Day | Dec | | | | | | Jan | | | | | | Feb | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day |
| 1 | 513.6 | 0.000 | 0.000 | 0.007 | 0.007 | 328 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 2 | 723.2 | 0.000 | 0.000 | 0.007 | 0.007 | 450 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 3 | 299.4 | 0.000 | 0.000 | 0.007 | 0.007 | 184 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 4 | 202.4 | 0.000 | 0.000 | 0.012 | 0.012 | 201 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 5 | 75.96 | 0.000 | 0.000 | 0.009 | 0.009 | 56 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 6 | 39.83 | 0.000 | 0.000 | 0.013 | 0.013 | 43 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 7 | 32.98 | 0.000 | 0.000 | 0.013 | 0.013 | 38 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 8 | 24.42 | 0.000 | 0.000 | 0.014 | 0.014 | 29 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 9 | 18.01 | 0.000 | 0.000 | 0.013 | 0.013 | 21 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 10 | 13.75 | 0.000 | 0.000 | 0.008 | 0.008 | 10 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 11 | 13.01 | 0.000 | 0.000 | 0.018 | 0.018 | 20 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 12 | 10.27 | 0.000 | 0.000 | 0.016 | 0.016 | 14 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 13 | 6.232 | 0.000 | 0.000 | 0.014 | 0.014 | 8 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 14 | 2.798 | 0.000 | 0.000 | 0.013 | 0.013 | 3 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 15 | 2.970 | 0.000 | 0.000 | 0.019 | 0.019 | 5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 16 | 2.079 | 0.000 | 0.000 | 0.036 | 0.036 | 7 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 17 | 1.842 | 0.000 | 0.000 | 0.036 | 0.036 | 6 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 18 | 33.28 | 0.000 | 0.000 | 0.023 | 0.023 | 65 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 19 | 2.715 | 0.000 | 0.000 | 0.035 | 0.035 | 8 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 20 | 1.845 | 0.000 | 0.000 | 0.023 | 0.023 | 4 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 21 | 0.965 | 0.000 | 0.000 | 0.012 | 0.012 | 1 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 22 | 0.889 | 0.000 | 0.000 | 0.011 | 0.011 | 1 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 23 | 0.658 | 0.000 | 0.000 | 0.008 | 0.008 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 24 | 0.595 | 0.000 | 0.000 | 0.008 | 0.008 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 25 | 0.554 | 0.000 | 0.000 | 0.007 | 0.007 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 26 | 0.488 | 0.000 | 0.000 | 0.006 | 0.006 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 27 | 0.476 | 0.000 | 0.000 | 0.006 | 0.006 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 28 | 0.401 | 0.000 | 0.000 | 0.005 | 0.005 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 29 | 0.296 | 0.000 | 0.000 | 0.004 | 0.004 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 30 | 0.161 | 0.000 | 0.000 | 0.002 | 0.002 | 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 | 194.4 | 0.000 | 0.000 | 0.010 | 0.010 | 136 | 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 | 7.704 | 0.000 | 0.000 | 0.023 | 0.023 | 14 | 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 | 0.499 | 0.000 | 0.000 | 0.006 | 0.006 | 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 | | | | | | 1502 | | | | | | 0 | | | | | | 0 |

**Annual Sediment Load (Metric Tonnes) : 5533**

## Daily Observed Sediment Datasheet for period : 2015-2016

**Station Name : Sulurpet ( AB000N5)** **Division : Hydrology Division, Chennai**

**Local River : Kalingi** **Sub-Division : PPSD, Chennai**

| Day | Mar | | | | | | Apr | | | | | | May | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total 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) : 5533**

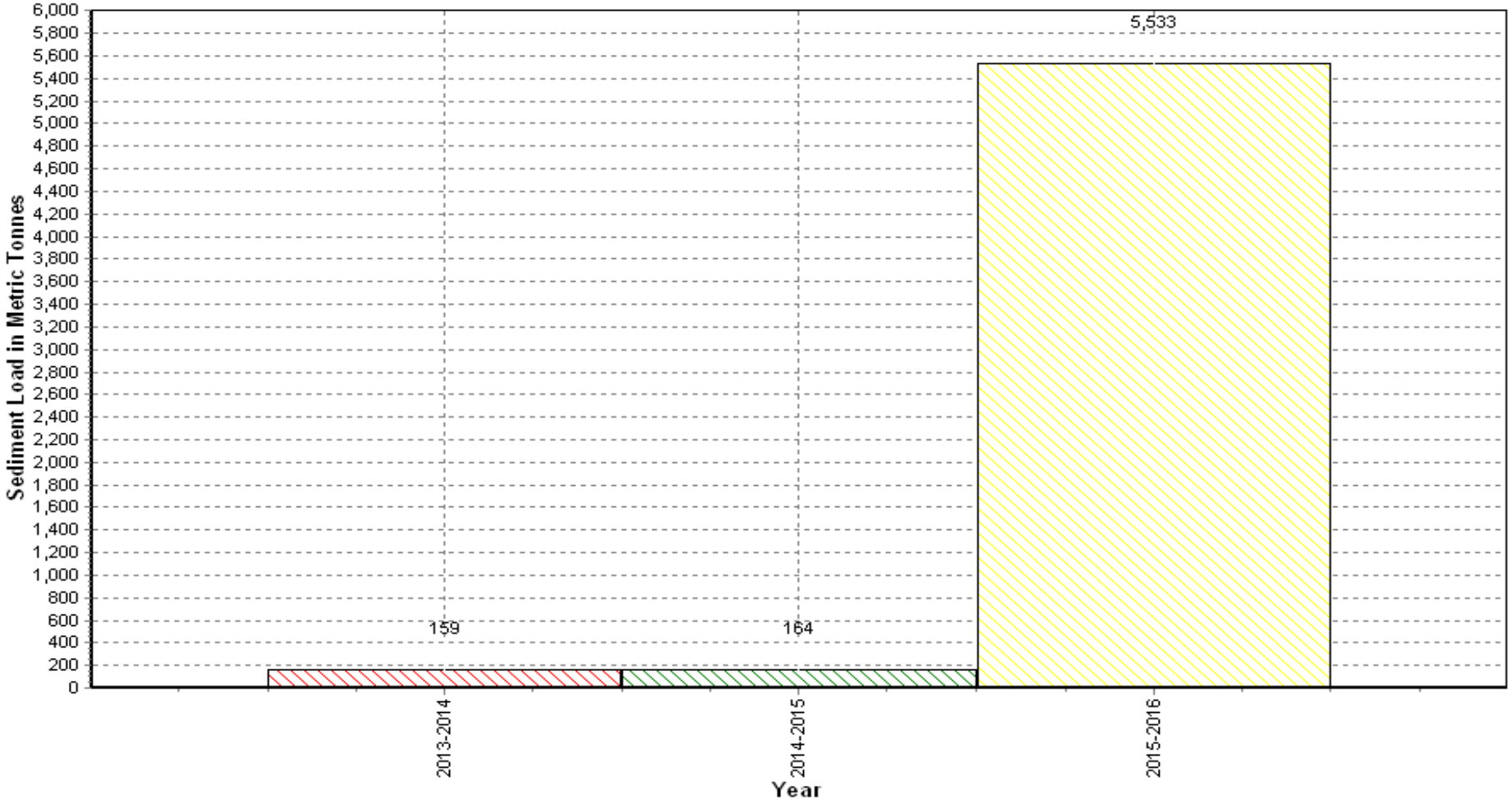
**Annual Sediment Load for the period: 2013-2016**

**Station Name : Sulurpet ( AB000N5)**

**Local River : Kalingi**

**Division : Hydrology Division, Chennai**

**Sub-Division : PPSD, Chennai**



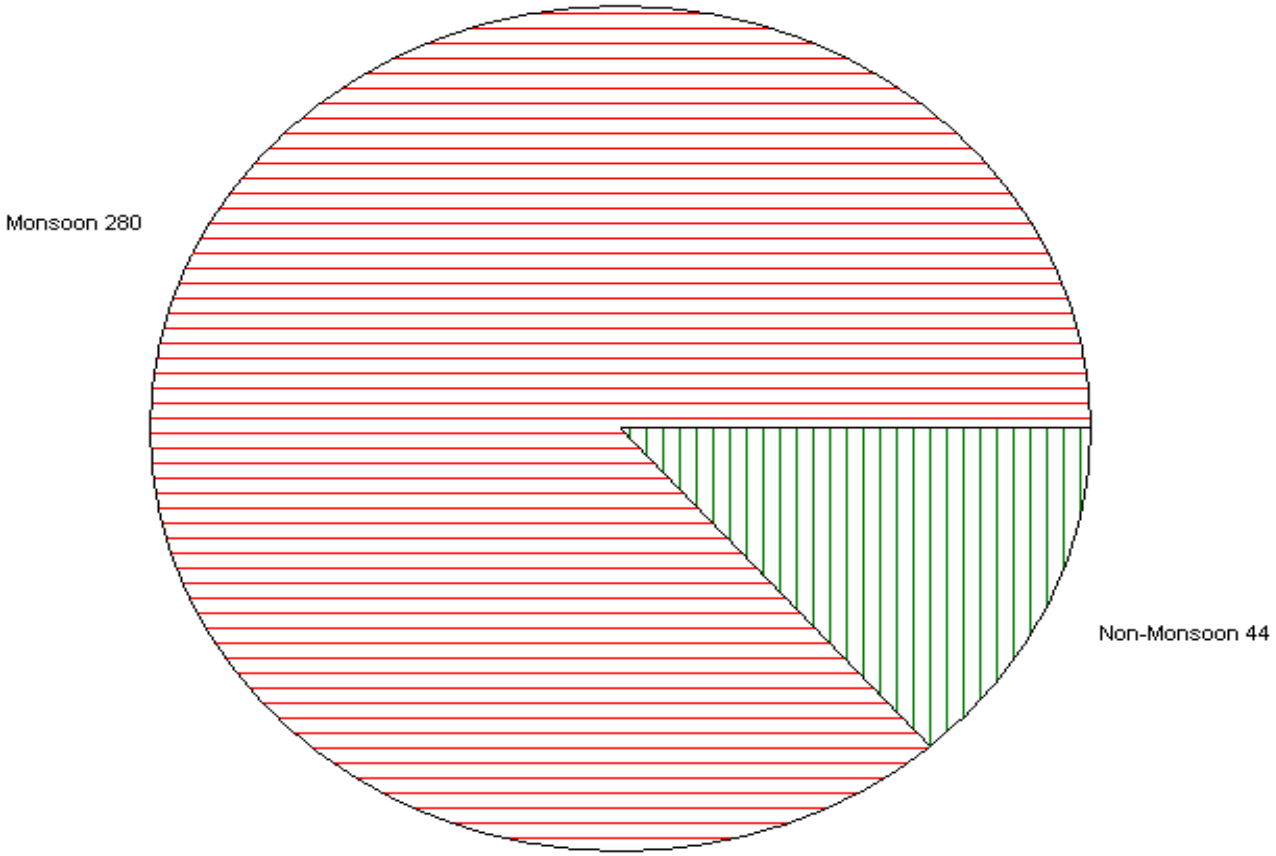
**Seasonal Sediment Load for the period : 2013-2015**

**Station Name : Sulurpet ( AB000N5)**

**Local River : Kalingi**

**Division : Hydrology Division, Chennai**

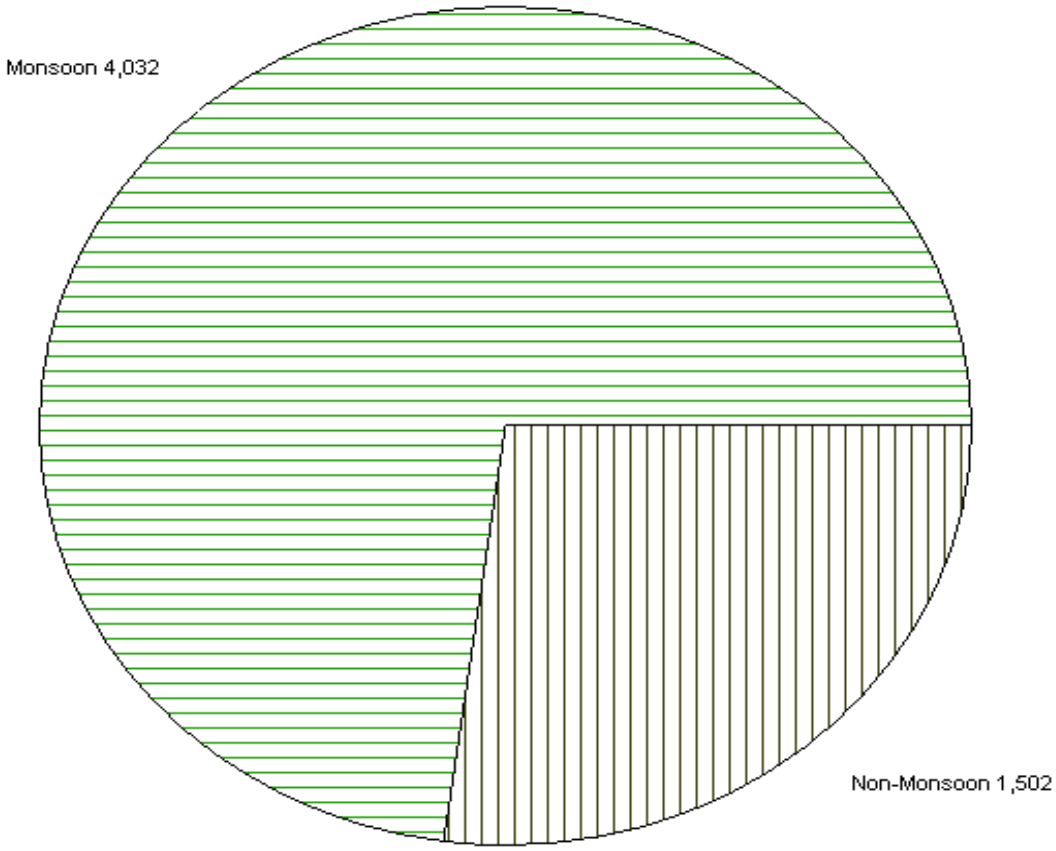
**Sub-Division : PPSD, Chennai**



**Seasonal Sediment Load for the Year: 2015-2016**

**Station Name : Sulurpet ( AB000N5)**
**Local River : Kalingi**

**Division : Hydrology Division, Chennai**
**Sub-Division : PPSD, Chennai**



# BED MATERIAL ANALYSIS DATA

**RIVER : KALINGI** **CODE No. : AB000N5**

**SITE : SULURPET** **CROSS SECTION : SGL**

| Sl.No. | DATE OF COLLECTION | DATA FOR SAMPLE COLLECTED | | | | | | | | | | | | GENERAL DATA OF THE RIVER | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | R.D.(m) | LAB NO. | R.L. OF DRY BED (m) | R.L. OF BED LEVEL (m) | W.L.(GTS) OF THE SAMPLING DEPTH (m) | DEPTH OF WATER (m) | WIDTH (m) | VELOCITY (m/s) | DISCHARGE (m3/s) | Bed Material Composition | | | WETTED PERIMETER (m) | HYDRAULIC MEAN DEPTH (m) | MEAN VELOCITY (m/s) | SURFACE WATER SLOPE | DISCHARGE (m3/s) | Bed Material Composition | | |
| | | | | | | | | | | | MAX. SIZE (mm) | MIN. SIZE (mm) | MEAN SIZE (mm) | | | | | | MAX. SIZE (mm) | MIN. SIZE (mm) | MEAN SIZE (mm) |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| | **MONSOON 2015 15/09/2015** | | | | | | | | | | | | | | | | | | | | |
| 1 | 15/09/2015 | 30 | 27 | -2.000 | 1.940 | River Dry | | | | | 15.0 | 0.06 | 2.10 | River Bed Dry | | | | | | | |
| 2 | 15/09/2015 | 70 | 28 | -2.000 | 1.370 | | | | | | 10.0 | 0.06 | 0.67 | | | | | | | | |
| 3 | 15/09/2015 | 100 | 29 | -2.000 | 0.965 | | | | | | 12.0 | 0.06 | 0.62 | | | | | | 15.0 | 0.060 | 1.130 |
| | **POST MONSOON 2016 29/01/2016** | | | | | | | | | | | | | | | | | | | | |
| 1 | 29/01/2016 | 30 | 64 | -2.000 | 2.840 | River Dry | | | | | 6.0 | 0.06 | 0.55 | River Bed Dry | | | | | | | |
| 2 | 29/01/2016 | 70 | 65 | -2.000 | 2.590 | | | | | | 13.0 | 0.06 | 0.99 | | | | | | | | |
| 3 | 29/01/2016 | 100 | 66 | -2.000 | 2.415 | | | | | | 15.0 | 0.06 | 1.85 | | | | | | 15.0 | 0.060 | 1.130 |
| | **PRE MONSOON 2016 18/05/2016** | | | | | | | | | | | | | | | | | | | | |
| 1 | 18/05/2016 | 30 | 106 | -2.000 | 2.020 | River Dry | | | | | 3.5 | 0.06 | 0.58 | River Bed Dry | | | | | | | |
| 2 | 18/05/2016 | 70 | 107 | -2.000 | 0.495 | | | | | | 15.0 | 0.06 | 1.05 | | | | | | | | |
| 3 | 18/05/2016 | 100 | 108 | -2.000 | 1.075 | | | | | | 22.0 | 0.06 | 1.97 | | | | | | 22.0 | 0.060 | 1.200 |

**Annual Sediment Load for period : 2002-2016**

**Station Name : VAZHAVACHANUR ( CP000H2)** **Division : Hydrology Division, Chennai**

**Local River : Ponnaiyar** **Sub-Division : Palar Ponnaiyar SD, Chennai**

| Year | Monsoon (M.T.) | Non-Monsoon (M.T.) | Annual Load (M.T.) | Annual Run Off (MCM) |
|---|---|---|---|---|
| **2002-2003** | 89 | Sed. Obsn. Not done | 89 * | 3 |
| **2003-2004** | 195 | 1304 | 1500 | 48 |
| **2004-2005** | 7432 | 859 | 8291 | 195 |
| **2005-2006** | 89530 | 14983 | 104513 | 1253 |
| **2006-2007** | Sediment Observation not done | | | 20 |
| **2007-2008** | Sediment Observation not done | | | 83 |
| **2008-2009** | Sed. Obsn. Not done | 380 | 380 * | 170 |
| **2009-2010** | 275 | 982 | 1257 | 138 |
| **2010-2011** | 8806 | 6062 | 14868 | 391 |
| **2011-2012** | 1734 | 4329 | 6063 | 208 |
| **2012-2013** | 2618 | 2871 | 5489 | 55 |
| **2013-2014** | 708 | 47 | 755 | 10 |
| **2014-2015** | 72 | 454 | 527 | 25 |
| **2015-2016** | 2371 | 4657 | 7029 | 273 |

## Daily Observed Sediment Datasheet for period : 2015-2016

**Station Name : VAZHAVACHANUR ( CP000H2)** **Division : Hydrology Division, Chennai**

**Local River : Ponnaiyar** **Sub-Division : Palar Ponnaiyar SD, Chennai**

| Day | Jun | | | | | | Jul | | | | | | Aug | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day |
| 1 | 0.224 | 0.000 | 0.000 | 0.004 | 0.004 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.239 | 0.000 | 0.000 | 0.010 | 0.010 | 0 |
| 2 | 0.252 | 0.000 | 0.000 | 0.005 | 0.005 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.162 | 0.000 | 0.000 | 0.007 | 0.007 | 0 |
| 3 | 0.302 | 0.000 | 0.000 | 0.006 | 0.006 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.234 | 0.000 | 0.000 | 0.010 | 0.010 | 0 |
| 4 | 0.414 | 0.000 | 0.000 | 0.009 | 0.009 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.271 | 0.000 | 0.000 | 0.011 | 0.011 | 0 |
| 5 | 0.484 | 0.000 | 0.000 | 0.010 | 0.010 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.214 | 0.000 | 0.000 | 0.009 | 0.009 | 0 |
| 6 | 0.338 | 0.000 | 0.000 | 0.007 | 0.007 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.161 | 0.000 | 0.000 | 0.007 | 0.007 | 0 |
| 7 | 0.182 | 0.000 | 0.000 | 0.004 | 0.004 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.103 | 0.000 | 0.000 | 0.004 | 0.004 | 0 |
| 8 | 0.162 | 0.000 | 0.000 | 0.003 | 0.003 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.101 | 0.000 | 0.000 | 0.004 | 0.004 | 0 |
| 9 | 0.158 | 0.000 | 0.000 | 0.003 | 0.003 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.063 | 0.000 | 0.000 | 0.003 | 0.003 | 0 |
| 10 | 0.135 | 0.000 | 0.000 | 0.003 | 0.003 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 11 | 0.271 | 0.000 | 0.000 | 0.006 | 0.006 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 12 | 0.508 | 0.000 | 0.000 | 0.003 | 0.003 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 13 | 0.659 | 0.000 | 0.000 | 0.014 | 0.014 | 1 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 14 | 0.720 | 0.000 | 0.000 | 0.010 | 0.010 | 1 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 15 | 0.534 | 0.000 | 0.000 | 0.021 | 0.021 | 1 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 16 | 0.392 | 0.000 | 0.000 | 0.016 | 0.016 | 1 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 17 | 0.283 | 0.000 | 0.000 | 0.011 | 0.011 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 18 | 0.295 | 0.000 | 0.000 | 0.012 | 0.012 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 19 | 0.340 | 0.000 | 0.000 | 0.014 | 0.014 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 20 | 0.307 | 0.000 | 0.000 | 0.012 | 0.012 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 21 | 0.295 | 0.000 | 0.000 | 0.012 | 0.012 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 22 | 0.290 | 0.000 | 0.000 | 0.012 | 0.012 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 23 | 0.200 | 0.000 | 0.000 | 0.008 | 0.008 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 24 | 0.160 | 0.000 | 0.000 | 0.006 | 0.006 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.078 | 0.000 | 0.000 | 0.001 | 0.001 | 0 |
| 25 | 0.160 | 0.000 | 0.000 | 0.006 | 0.006 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.050 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 26 | 0.118 | 0.000 | 0.000 | 0.005 | 0.005 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 27 | 0.076 | 0.000 | 0.000 | 0.003 | 0.003 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 28 | 0.092 | 0.000 | 0.000 | 0.004 | 0.004 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 29 | 0.074 | 0.000 | 0.000 | 0.003 | 0.003 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 30 | 0.054 | 0.000 | 0.000 | 0.002 | 0.002 | 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 | 0.265 | 0.000 | 0.000 | 0.005 | 0.005 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.155 | 0.000 | 0.000 | 0.006 | 0.006 | 0 |
| Ten Daily II | 0.431 | 0.000 | 0.000 | 0.012 | 0.012 | 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 | 0.152 | 0.000 | 0.000 | 0.006 | 0.006 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.012 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| Monthly | | | | | | | | | | | | | | | | | | |
| Total | | | | | | 7 | | | | | | 0 | | | | | | 1 |

**Annual Sediment Load (Metric Tonnes) : 7029**

## Daily Observed Sediment Datasheet for period : 2015-2016

**Station Name : VAZHAVACHANUR ( CP000H2)** **Division : Hydrology Division, Chennai**

**Local River : Ponnaiyar** **Sub-Division : Palar Ponnaiyar SD, Chennai**

| Day | Sep | | | | | | Oct | | | | | | Nov | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day |
| 1 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.637 | 0.000 | 0.000 | 0.012 | 0.012 | 1 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 2 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.373 | 0.000 | 0.000 | 0.007 | 0.007 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 3 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.260 | 0.000 | 0.000 | 0.005 | 0.005 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 4 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.219 | 0.000 | 0.000 | 0.004 | 0.004 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.214 | 0.000 | 0.000 | 0.004 | 0.004 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 6 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.319 | 0.000 | 0.000 | 0.006 | 0.006 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 7 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.363 | 0.000 | 0.000 | 0.007 | 0.007 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 8 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.272 | 0.000 | 0.000 | 0.005 | 0.005 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 9 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.206 | 0.000 | 0.000 | 0.004 | 0.004 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 10 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.123 | 0.000 | 0.000 | 0.002 | 0.002 | 0 | 56.63 | 0.000 | 0.000 | 0.093 | 0.093 | 454 |
| 11 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.130 | 0.000 | 0.000 | 0.003 | 0.003 | 0 | 17.34 | 0.000 | 0.000 | 0.067 | 0.067 | 101 |
| 12 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.128 | 0.000 | 0.000 | 0.003 | 0.003 | 0 | 6.588 | 0.000 | 0.000 | 0.018 | 0.018 | 10 |
| 13 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.126 | 0.000 | 0.000 | 0.003 | 0.003 | 0 | 6.347 | 0.000 | 0.000 | 0.032 | 0.032 | 17 |
| 14 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.109 | 0.000 | 0.000 | 0.002 | 0.002 | 0 | 5.128 | 0.000 | 0.000 | 0.036 | 0.036 | 16 |
| 15 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.084 | 0.000 | 0.000 | 0.002 | 0.002 | 0 | 5.650 | 0.000 | 0.000 | 0.036 | 0.036 | 18 |
| 16 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.063 | 0.000 | 0.000 | 0.001 | 0.001 | 0 | 25.41 | 0.000 | 0.000 | 0.033 | 0.033 | 72 |
| 17 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.064 | 0.000 | 0.000 | 0.001 | 0.001 | 0 | 22.10 | 0.000 | 0.000 | 0.055 | 0.055 | 104 |
| 18 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 15.14 | 0.000 | 0.000 | 0.024 | 0.024 | 31 |
| 19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 12.78 | 0.000 | 0.000 | 0.035 | 0.035 | 39 |
| 20 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 12.15 | 0.000 | 0.000 | 0.052 | 0.052 | 55 |
| 21 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 15.33 | 0.000 | 0.000 | 0.037 | 0.037 | 50 |
| 22 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 11.74 | 0.000 | 0.000 | 0.036 | 0.036 | 36 |
| 23 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 55.74 | 0.000 | 0.000 | 0.056 | 0.056 | 267 |
| 24 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 39.71 | 0.000 | 0.000 | 0.060 | 0.060 | 207 |
| 25 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 49.50 | 0.000 | 0.000 | 0.044 | 0.044 | 186 |
| 26 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 56.63 | 0.000 | 0.000 | 0.031 | 0.031 | 154 |
| 27 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 101.2 | 0.000 | 0.000 | 0.030 | 0.030 | 263 |
| 28 | 0.248 | 0.000 | 0.000 | 0.004 | 0.004 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 42.14 | 0.000 | 0.000 | 0.029 | 0.029 | 104 |
| 29 | 0.633 | 0.000 | 0.000 | 0.011 | 0.011 | 1 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 42.21 | 0.000 | 0.000 | 0.029 | 0.029 | 104 |
| 30 | 1.731 | 0.000 | 0.000 | 0.006 | 0.006 | 1 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 55.04 | 0.000 | 0.000 | 0.015 | 0.015 | 71 |
| 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 | 0.299 | 0.000 | 0.000 | 0.006 | 0.006 | 0 | 5.663 | 0.000 | 0.000 | 0.009 | 0.009 | 45 |
| Ten Daily II | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.070 | 0.000 | 0.000 | 0.001 | 0.001 | 0 | 12.86 | 0.000 | 0.000 | 0.039 | 0.039 | 46 |
| Ten Daily III | 0.261 | 0.000 | 0.000 | 0.002 | 0.002 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 46.93 | 0.000 | 0.000 | 0.037 | 0.037 | 144 |
| Monthly | | | | | | | | | | | | | | | | | | |
| Total | | | | | | 2 | | | | | | 2 | | | | | | 2360 |

**Annual Sediment Load (Metric Tonnes) : 7029**

## Daily Observed Sediment Datasheet for period : 2015-2016

**Station Name : VAZHAVACHANUR ( CP000H2)** **Division : Hydrology Division, Chennai**

**Local River : Ponnaiyar** **Sub-Division : Palar Ponnaiyar SD, Chennai**

| Day | Dec | | | | | | Jan | | | | | | Feb | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day |
| 1 | 65.34 | 0.000 | 0.000 | 0.055 | 0.055 | 310 | 27.16 | 0.000 | 0.000 | 0.021 | 0.021 | 50 | 2.667 | 0.000 | 0.000 | 0.011 | 0.011 | 3 |
| 2 | 111.1 | 0.000 | 0.000 | 0.026 | 0.026 | 252 | 7.196 | 0.000 | 0.000 | 0.022 | 0.022 | 13 | 1.758 | 0.000 | 0.000 | 0.007 | 0.007 | 1 |
| 3 | 107.7 | 0.000 | 0.000 | 0.022 | 0.022 | 200 | 6.400 | 0.000 | 0.000 | 0.007 | 0.007 | 4 | 1.309 | 0.000 | 0.000 | 0.011 | 0.011 | 1 |
| 4 | 92.05 | 0.000 | 0.000 | 0.024 | 0.024 | 190 | 6.888 | 0.000 | 0.000 | 0.016 | 0.016 | 10 | 1.247 | 0.000 | 0.000 | 0.013 | 0.013 | 1 |
| 5 | 56.97 | 0.000 | 0.000 | 0.026 | 0.026 | 127 | 8.629 | 0.000 | 0.000 | 0.025 | 0.025 | 19 | 1.466 | 0.000 | 0.000 | 0.010 | 0.010 | 1 |
| 6 | 71.71 | 0.000 | 0.000 | 0.026 | 0.026 | 162 | 11.47 | 0.000 | 0.000 | 0.020 | 0.020 | 20 | 1.136 | 0.000 | 0.000 | 0.013 | 0.013 | 1 |
| 7 | 184.2 | 0.000 | 0.000 | 0.030 | 0.030 | 471 | 13.37 | 0.000 | 0.000 | 0.014 | 0.014 | 16 | 1.008 | 0.000 | 0.000 | 0.029 | 0.029 | 3 |
| 8 | 103.0 | 0.000 | 0.000 | 0.022 | 0.022 | 193 | 5.684 | 0.000 | 0.000 | 0.022 | 0.022 | 11 | 1.099 | 0.000 | 0.000 | 0.018 | 0.018 | 2 |
| 9 | 70.61 | 0.000 | 0.000 | 0.023 | 0.023 | 141 | 4.763 | 0.000 | 0.000 | 0.034 | 0.034 | 14 | 1.109 | 0.000 | 0.000 | 0.007 | 0.007 | 1 |
| 10 | 123.4 | 0.000 | 0.000 | 0.019 | 0.019 | 199 | 4.914 | 0.000 | 0.000 | 0.036 | 0.036 | 15 | 1.008 | 0.000 | 0.000 | 0.015 | 0.015 | 1 |
| 11 | 108.0 | 0.000 | 0.000 | 0.033 | 0.033 | 304 | 4.534 | 0.000 | 0.000 | 0.031 | 0.031 | 12 | 1.243 | 0.000 | 0.000 | 0.009 | 0.009 | 1 |
| 12 | 90.15 | 0.000 | 0.000 | 0.012 | 0.012 | 92 | 11.25 | 0.000 | 0.000 | 0.021 | 0.021 | 21 | 1.267 | 0.000 | 0.000 | 0.022 | 0.022 | 2 |
| 13 | 74.59 | 0.000 | 0.000 | 0.011 | 0.011 | 73 | 5.726 | 0.000 | 0.000 | 0.027 | 0.027 | 13 | 21.88 | 0.000 | 0.000 | 0.012 | 0.012 | 23 |
| 14 | 73.87 | 0.000 | 0.000 | 0.011 | 0.011 | 72 | 4.907 | 0.000 | 0.000 | 0.042 | 0.042 | 18 | 23.14 | 0.000 | 0.000 | 0.013 | 0.013 | 26 |
| 15 | 42.84 | 0.000 | 0.000 | 0.009 | 0.009 | 33 | 4.456 | 0.000 | 0.000 | 0.038 | 0.038 | 15 | 16.18 | 0.000 | 0.000 | 0.008 | 0.008 | 11 |
| 16 | 41.86 | 0.000 | 0.000 | 0.037 | 0.037 | 135 | 3.480 | 0.000 | 0.000 | 0.029 | 0.029 | 9 | 15.56 | 0.000 | 0.000 | 0.008 | 0.008 | 10 |
| 17 | 38.94 | 0.000 | 0.000 | 0.022 | 0.022 | 73 | 4.456 | 0.000 | 0.000 | 0.023 | 0.023 | 9 | 19.46 | 0.000 | 0.000 | 0.010 | 0.010 | 17 |
| 18 | 37.37 | 0.000 | 0.000 | 0.019 | 0.019 | 63 | 3.849 | 0.000 | 0.000 | 0.027 | 0.027 | 9 | 18.86 | 0.000 | 0.000 | 0.009 | 0.009 | 14 |
| 19 | 37.26 | 0.000 | 0.000 | 0.019 | 0.019 | 62 | 4.156 | 0.000 | 0.000 | 0.026 | 0.026 | 9 | 19.75 | 0.000 | 0.000 | 0.013 | 0.013 | 23 |
| 20 | 33.33 | 0.000 | 0.000 | 0.017 | 0.017 | 49 | 3.231 | 0.000 | 0.000 | 0.026 | 0.026 | 7 | 19.65 | 0.000 | 0.000 | 0.018 | 0.018 | 30 |
| 21 | 35.90 | 0.000 | 0.000 | 0.019 | 0.019 | 57 | 3.366 | 0.000 | 0.000 | 0.020 | 0.020 | 6 | 18.51 | 0.000 | 0.000 | 0.015 | 0.015 | 24 |
| 22 | 32.77 | 0.000 | 0.000 | 0.015 | 0.015 | 44 | 4.914 | 0.000 | 0.000 | 0.021 | 0.021 | 9 | 17.64 | 0.000 | 0.000 | 0.013 | 0.013 | 20 |
| 23 | 29.52 | 0.000 | 0.000 | 0.021 | 0.021 | 54 | 12.46 | 0.000 | 0.000 | 0.018 | 0.018 | 20 | 4.305 | 0.000 | 0.000 | 0.045 | 0.045 | 17 |
| 24 | 20.15 | 0.000 | 0.000 | 0.019 | 0.019 | 34 | 10.48 | 0.000 | 0.000 | 0.021 | 0.021 | 19 | 1.333 | 0.000 | 0.000 | 0.034 | 0.034 | 4 |
| 25 | 9.845 | 0.000 | 0.000 | 0.017 | 0.017 | 15 | 5.597 | 0.000 | 0.000 | 0.028 | 0.028 | 13 | 0.961 | 0.000 | 0.000 | 0.024 | 0.024 | 2 |
| 26 | 8.046 | 0.000 | 0.000 | 0.017 | 0.017 | 12 | 3.070 | 0.000 | 0.000 | 0.024 | 0.024 | 6 | 0.845 | 0.000 | 0.000 | 0.020 | 0.020 | 1 |
| 27 | 7.761 | 0.000 | 0.000 | 0.014 | 0.014 | 9 | 2.476 | 0.000 | 0.000 | 0.023 | 0.023 | 5 | 0.848 | 0.000 | 0.000 | 0.034 | 0.034 | 2 |
| 28 | 9.580 | 0.000 | 0.000 | 0.030 | 0.030 | 25 | 2.566 | 0.000 | 0.000 | 0.019 | 0.019 | 4 | 0.739 | 0.000 | 0.000 | 0.023 | 0.023 | 1 |
| 29 | 8.177 | 0.000 | 0.000 | 0.033 | 0.033 | 24 | 2.423 | 0.000 | 0.000 | 0.025 | 0.025 | 5 | 0.742 | 0.000 | 0.000 | 0.023 | 0.023 | 1 |
| 30 | 6.691 | 0.000 | 0.000 | 0.028 | 0.028 | 16 | 2.948 | 0.000 | 0.000 | 0.026 | 0.026 | 7 | | | | | | |
| 31 | 6.671 | 0.000 | 0.000 | 0.020 | 0.020 | 12 | 2.405 | 0.000 | 0.000 | 0.021 | 0.021 | 4 | | | | | | |
| Ten Daily Mean | | | | | | | | | | | | | | | | | | |
| Ten Daily I | 98.61 | 0.000 | 0.000 | 0.027 | 0.027 | 225 | 9.648 | 0.000 | 0.000 | 0.022 | 0.022 | 17 | 1.381 | 0.000 | 0.000 | 0.013 | 0.013 | 1 |
| Ten Daily II | 57.82 | 0.000 | 0.000 | 0.019 | 0.019 | 96 | 5.005 | 0.000 | 0.000 | 0.029 | 0.029 | 12 | 15.70 | 0.000 | 0.000 | 0.012 | 0.012 | 16 |
| Ten Daily III | 15.92 | 0.000 | 0.000 | 0.021 | 0.021 | 27 | 4.791 | 0.000 | 0.000 | 0.022 | 0.022 | 9 | 5.102 | 0.000 | 0.000 | 0.026 | 0.026 | 8 |
| Monthly | | | | | | | | | | | | | | | | | | |
| Total | | | | | | 3503 | | | | | | 392 | | | | | | 247 |

**Annual Sediment Load (Metric Tonnes) : 7029**

## Daily Observed Sediment Datasheet for period : 2015-2016

**Station Name : VAZHAVACHANUR ( CP000H2)** **Division : Hydrology Division, Chennai**

**Local River : Ponnaiyar** **Sub-Division : Palar Ponnaiyar SD, Chennai**

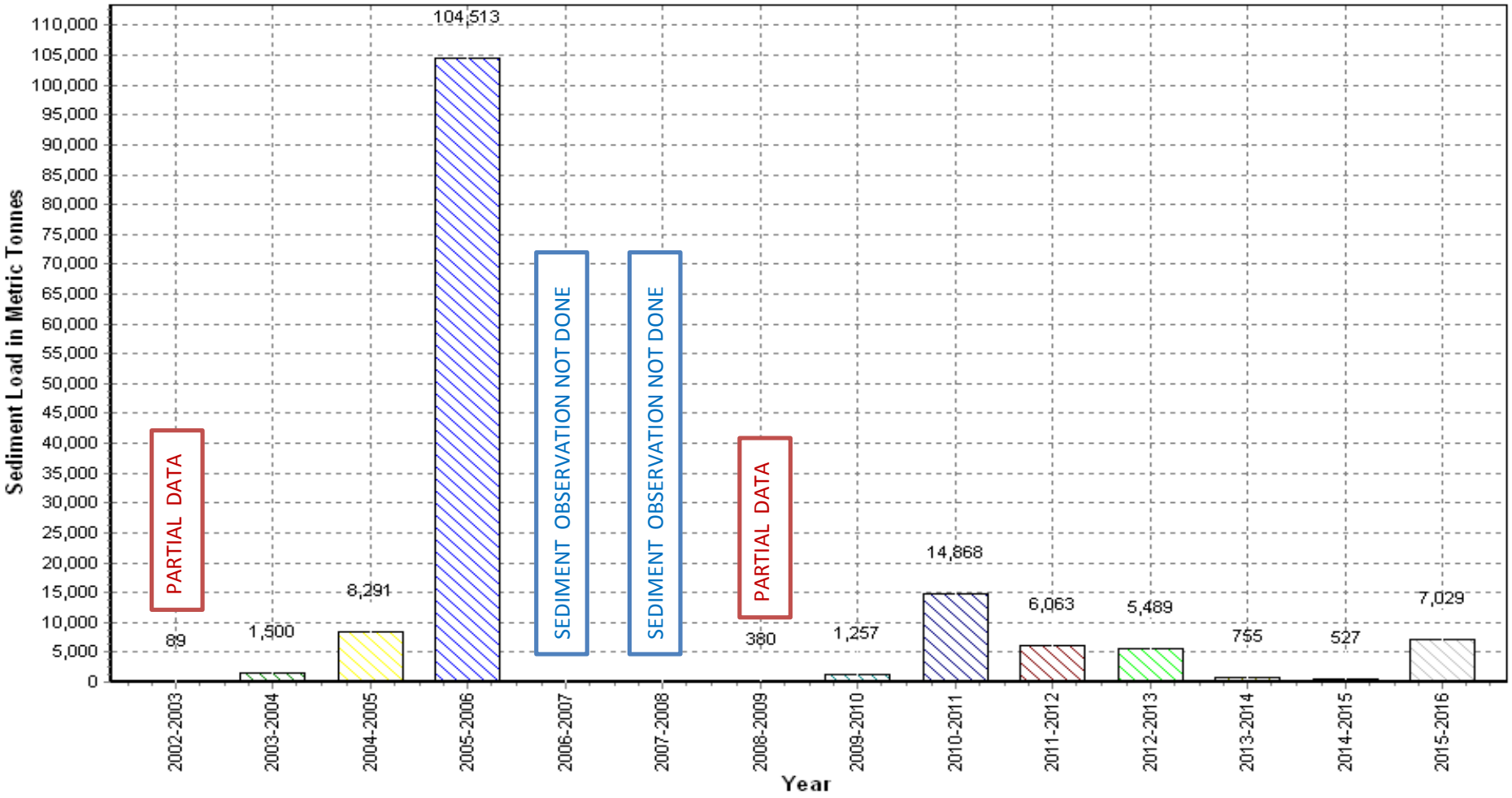
| Day | Mar | | | | | | Apr | | | | | | May | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day |
| 1 | 0.764 | 0.000 | 0.000 | 0.024 | 0.024 | 2 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 2 | 0.751 | 0.000 | 0.000 | 0.016 | 0.016 | 1 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 3 | 30.68 | 0.000 | 0.000 | 0.014 | 0.014 | 37 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 3.254 | 0.000 | 0.000 | 0.021 | 0.021 | 6 |
| 4 | 18.08 | 0.000 | 0.000 | 0.026 | 0.026 | 40 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 3.236 | 0.000 | 0.000 | 0.017 | 0.017 | 5 |
| 5 | 18.19 | 0.000 | 0.000 | 0.011 | 0.011 | 17 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 11.11 | 0.000 | 0.000 | 0.008 | 0.008 | 8 |
| 6 | 24.40 | 0.000 | 0.000 | 0.021 | 0.021 | 44 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 3.865 | 0.000 | 0.000 | 0.009 | 0.009 | 3 |
| 7 | 23.79 | 0.000 | 0.000 | 0.020 | 0.020 | 41 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 3.909 | 0.000 | 0.000 | 0.029 | 0.029 | 10 |
| 8 | 23.32 | 0.000 | 0.000 | 0.035 | 0.035 | 71 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 3.347 | 0.000 | 0.000 | 0.024 | 0.024 | 7 |
| 9 | 22.51 | 0.000 | 0.000 | 0.011 | 0.011 | 22 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 2.717 | 0.000 | 0.000 | 0.018 | 0.018 | 4 |
| 10 | 21.45 | 0.000 | 0.000 | 0.015 | 0.015 | 28 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 1.929 | 0.000 | 0.000 | 0.016 | 0.016 | 3 |
| 11 | 23.56 | 0.000 | 0.000 | 0.023 | 0.023 | 46 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 2.563 | 0.000 | 0.000 | 0.011 | 0.011 | 2 |
| 12 | 4.628 | 0.000 | 0.000 | 0.017 | 0.017 | 7 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 4.319 | 0.000 | 0.000 | 0.011 | 0.011 | 4 |
| 13 | 2.280 | 0.000 | 0.000 | 0.027 | 0.027 | 5 | 1.881 | 0.000 | 0.000 | 0.016 | 0.016 | 3 | 2.016 | 0.000 | 0.000 | 0.008 | 0.008 | 1 |
| 14 | 2.338 | 0.000 | 0.000 | 0.027 | 0.027 | 5 | 1.977 | 0.000 | 0.000 | 0.004 | 0.004 | 1 | 2.128 | 0.000 | 0.000 | 0.036 | 0.036 | 7 |
| 15 | 1.396 | 0.000 | 0.000 | 0.027 | 0.027 | 3 | 1.983 | 0.000 | 0.000 | 0.003 | 0.003 | 1 | 2.280 | 0.000 | 0.000 | 0.039 | 0.039 | 8 |
| 16 | 0.684 | 0.000 | 0.000 | 0.015 | 0.015 | 1 | 1.770 | 0.000 | 0.000 | 0.011 | 0.011 | 2 | 2.074 | 0.000 | 0.000 | 0.020 | 0.020 | 4 |
| 17 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 1.977 | 0.000 | 0.000 | 0.013 | 0.013 | 2 | 7.780 | 0.000 | 0.000 | 0.012 | 0.012 | 8 |
| 18 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 3.211 | 0.000 | 0.000 | 0.030 | 0.030 | 8 | 8.029 | 0.000 | 0.000 | 0.028 | 0.028 | 20 |
| 19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 1.301 | 0.000 | 0.000 | 0.009 | 0.009 | 1 | 5.094 | 0.000 | 0.000 | 0.007 | 0.007 | 3 |
| 20 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 1.699 | 0.000 | 0.000 | 0.013 | 0.013 | 2 | 6.316 | 0.000 | 0.000 | 0.019 | 0.019 | 10 |
| 21 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 1.445 | 0.000 | 0.000 | 0.010 | 0.010 | 1 | 4.662 | 0.000 | 0.000 | 0.013 | 0.013 | 5 |
| 22 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 4.195 | 0.000 | 0.000 | 0.011 | 0.011 | 4 |
| 23 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 3.757 | 0.000 | 0.000 | 0.013 | 0.013 | 4 |
| 24 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 3.281 | 0.000 | 0.000 | 0.008 | 0.008 | 2 |
| 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 | 18.39 | 0.000 | 0.000 | 0.019 | 0.019 | 30 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 3.336 | 0.000 | 0.000 | 0.014 | 0.014 | 4 |
| Ten Daily II | 3.488 | 0.000 | 0.000 | 0.014 | 0.014 | 7 | 1.580 | 0.000 | 0.000 | 0.010 | 0.010 | 2 | 4.260 | 0.000 | 0.000 | 0.019 | 0.019 | 7 |
| Ten Daily III | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.145 | 0.000 | 0.000 | 0.001 | 0.001 | 0 | 1.445 | 0.000 | 0.000 | 0.004 | 0.004 | 1 |
| Monthly Total | | | | | | 369 | | | | | | 20 | | | | | | 128 |

**Annual Sediment Load (Metric Tonnes) : 7029**

**Annual Sediment Load for the period: 2002-2016**

**Station Name : VAZHAVACHANUR ( CP000H2)**
**Local River : Ponnaiyar**

**Division : Hydrology Division, Chennai**
**Sub-Division : Palar Ponnaiyar SD, Chennai**



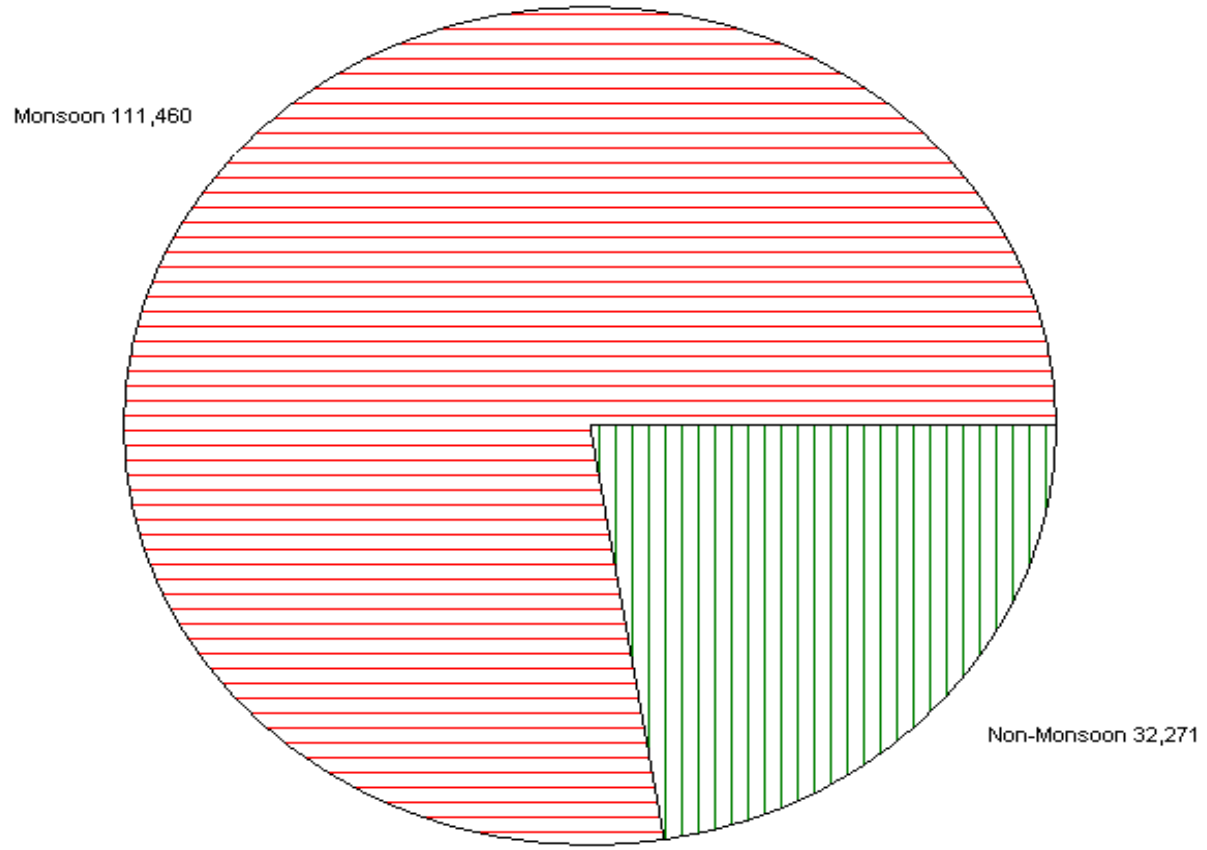
**Seasonal Sediment Load for the period : 2002-2015**

**Station Name : VAZHAVACHANUR ( CP000H2)**

**Division : Hydrology Division, Chennai**

**Local River : Ponnaiyar**

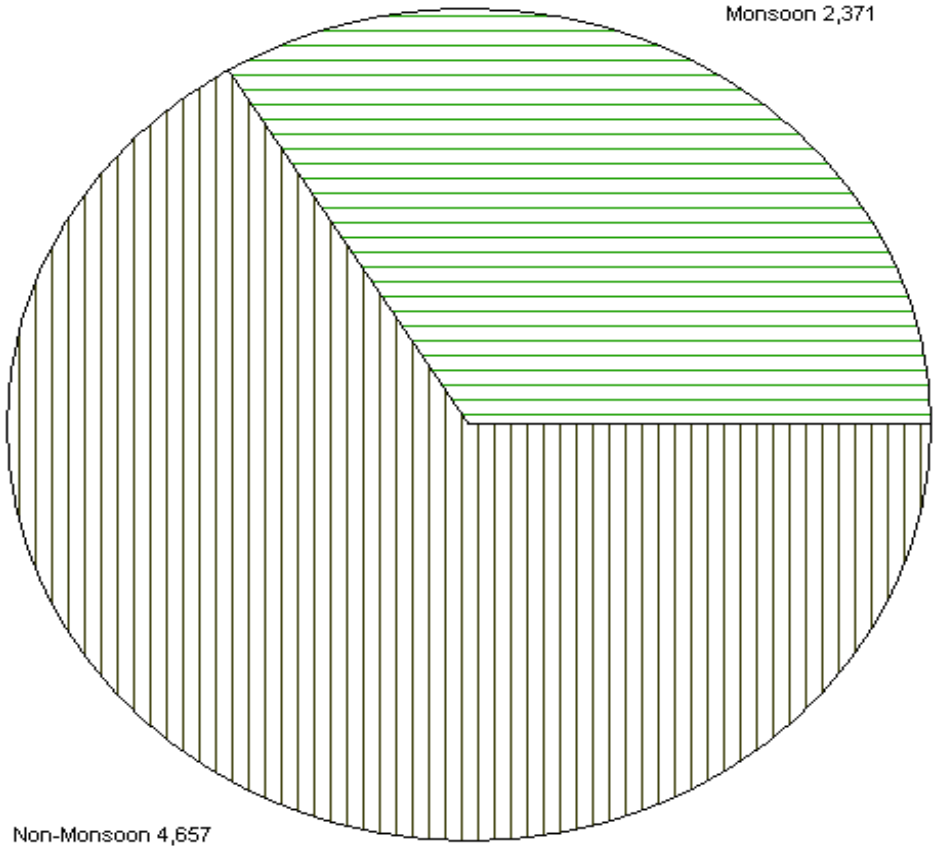
**Sub-Division : Palar Ponnaiyar SD, Chennai**



**Seasonal Sediment Load for the Year: 2015-2016**

**Station Name : VAZHAVACHANUR ( CP000H2)**
**Local River : Ponnaiyar**

**Division : Hydrology Division, Chennai**
**Sub-Division : Palar Ponnaiyar SD, Chennai**



# BED MATERIAL ANALYSIS DATA

**RIVER : PONNAIYAR** **CODE No. : CCP000H2**

**SITE : VAZHAVACHANUR** **CROSS SECTION : SGL**

| | | DATA FOR SAMPLE COLLECTED | | | | | | | | | | | | GENERAL DATA OF THE RIVER | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | Bed Material Composition | | | | | | | | Bed Material Composition | | |
| Sl.No. | DATE OF COLLECTION | R.D.(m) | LAB NO. | R.L. OF DRY BED (m) | R.L. OF BED LEVEL (m) | W.L.(GTS) OF THE SAMPLING DEPTH (m) | DEPTH OF WATER (m) | WIDTH (m) | VELOCITY (m/s) | DISCHARGE (m3/s) | MAX. SIZE (mm) | MIN. SIZE (mm) | MEAN SIZE (mm) | WETTED PERIMETER (m) | HYDRAULIC MEAN DEPTH (m) | MEAN VELOCITY (m/s) | SURFACE WATER SLOPE | DISCHARGE (m3/s) | MAX. SIZE (mm) | MIN. SIZE (mm) | MEAN SIZE (mm) |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| | **MONSOON 2015 17/10/2015** | | | | | | | | | | | | | | | | | | | | |
| 1 | 17/10/2015 | 80 | 35 | 133.920 | - | 133.690 | | | | | 11.0 | 0.060 | 1.85 | | | | | | | | |
| 2 | 17/10/2015 | 120 | 36 | 133.495 | - | 133.690 | | Dry bed | | | 18.0 | 0.060 | 3.32 | | River Bed Dry | | | | | | |
| 3 | 17/10/2015 | 160 | 37 | 134.130 | - | 133.690 | | | | | 30.0 | 0.060 | 3.50 | | | | | | 30.0 | 0.060 | 2.890 |
| | **POST MONSOON 2016 09/03/2016** | | | | | | | | | | | | | | | | | | | | |
| 1 | 09/03/2016 | 80 | 72 | - | 133.895 | 134.545 | 0.650 | - | - | - | 15.0 | 0.060 | 1.63 | | | | | | | | |
| 2 | 09/03/2016 | 120 | 73 | - | 133.975 | 134.545 | 0.570 | 122.00 | 0.269 | 20.012 | 17.0 | 0.060 | 3.88 | 122.306 | 0.633 | 0.269 | 0.00083 | 20.831 | 25.0 | 0.060 | 4.063 |
| 3 | 09/03/2016 | 160 | 74 | - | 134.145 | 134.545 | 0.400 | - | - | - | 25.0 | 0.060 | 6.68 | | | | | | | | |
| | **PRE MONSOON 2016 07/05/2016** | | | | | | | | | | | | | | | | | | | | |
| 1 | 07/05/2016 | 80 | 109 | - | 133.900 | 134.300 | 0.400 | - | - | - | 14.0 | 0.060 | 1.88 | | | | | | | | |
| 2 | 07/05/2016 | 120 | 110 | - | 133.980 | 134.300 | 0.320 | 112.45 | 0.083 | 3.9102 | 18.0 | 0.060 | 5.91 | 112.559 | 0.418 | 0.083 | 0.00003 | 3.9120 | 18.0 | 0.060 | 4.050 |
| 3 | 07/05/2016 | 160 | 111 | - | 134.180 | 134.300 | 0.120 | - | - | - | 16.0 | 0.060 | 4.36 | | | | | | | | |

## Annual Sediment Load for period : 1982-2016

**Station Name : Gummanur ( CP000R5)** **Division : SR Division, Coimbatore**

**Local River : Ponnaiyar** **Sub-Division : Lower Cauvery SD, Trichi**

| Year | Monsoon (M.T.) | Non-Monsoon (M.T.) | Annual Load (M.T.) | Annual Run Off (MCM) |
|---|---|---|---|---|
| **1982-1983** | 33482 | 271 | 33753 | 64 |
| **1983-1984** | 43348 | 213 | 43561 | 83 |
| **1984-1985** | 138032 | 1152 | 139184 | 130 |
| **1985-1986** | 58559 | 19182 | 77741 | 62 |
| **1986-1987** | 123427 | 48 | 123475 | 198 |
| **1987-1988** | 285900 | 173 | 286073 | 220 |
| **1988-1989** | 194828 | 27 | 194855 | 243 |
| **1989-1990** | 89420 | 10965 | 100385 | 173 |
| **1990-1991** | 24680 | 83 | 24763 | 26 |
| **1991-1992** | 305967 | 3210 | 309177 | 532 |
| **1992-1993** | 29938 | 20 | 29958 | 70 |
| **1993-1994** | 12321 | 174 | 12495 | 170 |
| **1994-1995** | 3446 | 70 | 3516 | 78 |
| **1995-1996** | 13163 | 8 | 13171 | 141 |
| **1996-1997** | 18541 | 91 | 18632 | 234 |
| **1997-1998** | 118661 | 2153 | 120814 | 314 |
| **1998-1999** | 31774 | 176 | 31950 | 301 |
| **1999-2000** | 46108 | 132 | 46240 | 245 |
| **2000-2001** | 23572 | 21 | 23593 | 309 |
| **2001-2002** | 38780 | 90 | 38870 | 309 |
| **2002-2003** | 436 | 4 | 440 | 46 |
| **2003-2004** | 1597 | 80 | 1677 | 51 |
| **2004-2005** | 15692 | 1102 | 16794 | 197 |
| **2005-2006** | 207415 | 5653 | 213068 | 795 |
| **2006-2007** | SEDIMENT OBSERVATION NOT DONE | | | |
| **2007-2008** | SEDIMENT OBSERVATION NOT DONE | | | |
| **2008-2009** | 12834 | 1393 | 14227 | 311 |
| **2009-2010** | 7264 | 1391 | 8655 | 216 |
| **2010-2011** | 4497 | 2662 | 7159 | 205 |
| **2011-2012** | 6785 | 2079 | 8864 | 218 |
| **2012-2013** | 4491 | 1859 | 6350 | 99 |
| **2013-2014** | 11215 | 927 | 12142 | 266 |
| **2014-2015** | 14242 | 3602 | 17844 | 338 |
| **2015-2016** | 22590 | 5878 | 28468 | 490 |

## Daily Observed Sediment Datasheet for period : 2015-2016

**Station Name : Gummanur ( CP000R5)** **Division : SR Division, Coimbatore**

**Local River : Ponnaiyar** **Sub-Division : Lower Cauvery SD, Trichi**

| Day | Jun | | | | | | Jul | | | | | | Aug | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day |
| **1** | 24.12 | 0.000 | 0.000 | 0.029 | 0.029 | 61 | 4.596 | 0.000 | 0.000 | 0.050 | 0.050 | 20 | 6.706 | 0.000 | 0.000 | 0.047 | 0.047 | 27 |
| **2** | 26.55 | 0.000 | 0.000 | 0.032 | 0.032 | 74 | 4.305 | 0.000 | 0.000 | 0.055 | 0.055 | 21 | 7.905 | 0.000 | 0.000 | 0.047 | 0.047 | 32 |
| **3** | 46.79 | 0.000 | 0.000 | 0.055 | 0.055 | 224 | 4.352 | 0.000 | 0.000 | 0.048 | 0.048 | 18 | 4.633 | 0.000 | 0.000 | 0.034 | 0.034 | 14 |
| **4** | 42.32 | 0.000 | 0.000 | 0.016 | 0.016 | 60 | 4.404 | 0.000 | 0.000 | 0.047 | 0.047 | 18 | 4.892 | 0.000 | 0.000 | 0.043 | 0.043 | 18 |
| **5** | 25.71 | 0.000 | 0.000 | 0.025 | 0.025 | 56 | 4.544 | 0.000 | 0.000 | 0.035 | 0.035 | 14 | 3.925 | 0.000 | 0.000 | 0.035 | 0.035 | 12 |
| **6** | 15.15 | 0.000 | 0.000 | 0.021 | 0.021 | 28 | 3.889 | 0.000 | 0.000 | 0.035 | 0.035 | 12 | 3.751 | 0.000 | 0.000 | 0.021 | 0.021 | 7 |
| **7** | 14.22 | 0.000 | 0.000 | 0.026 | 0.026 | 32 | 3.906 | 0.000 | 0.000 | 0.046 | 0.046 | 16 | 3.590 | 0.000 | 0.000 | 0.037 | 0.037 | 11 |
| **8** | 15.64 | 0.000 | 0.000 | 0.025 | 0.025 | 34 | 3.809 | 0.000 | 0.000 | 0.035 | 0.035 | 11 | 9.496 | 0.000 | 0.000 | 0.035 | 0.035 | 28 |
| **9** | 17.38 | 0.000 | 0.000 | 0.019 | 0.019 | 29 | 4.614 | 0.000 | 0.000 | 0.098 | 0.098 | 39 | 13.66 | 0.000 | 0.000 | 0.046 | 0.046 | 54 |
| **10** | 15.02 | 0.000 | 0.000 | 0.008 | 0.008 | 11 | 4.630 | 0.000 | 0.000 | 0.121 | 0.121 | 48 | 16.16 | 0.000 | 0.000 | 0.062 | 0.062 | 86 |
| **11** | 13.85 | 0.000 | 0.000 | 0.015 | 0.015 | 18 | 4.650 | 0.000 | 0.000 | 0.050 | 0.050 | 20 | 12.43 | 0.000 | 0.000 | 0.032 | 0.032 | 34 |
| **12** | 13.84 | 0.000 | 0.000 | 0.030 | 0.030 | 35 | 3.866 | 0.000 | 0.000 | 0.035 | 0.035 | 12 | 11.09 | 0.000 | 0.000 | 0.035 | 0.035 | 33 |
| **13** | 13.75 | 0.000 | 0.000 | 0.014 | 0.014 | 17 | 5.152 | 0.000 | 0.000 | 0.052 | 0.052 | 23 | 8.586 | 0.000 | 0.000 | 0.036 | 0.036 | 27 |
| **14** | 12.65 | 0.000 | 0.000 | 0.028 | 0.028 | 31 | 2.611 | 0.000 | 0.000 | 0.044 | 0.044 | 10 | 8.675 | 0.000 | 0.000 | 0.034 | 0.034 | 25 |
| **15** | 11.04 | 0.000 | 0.000 | 0.024 | 0.024 | 23 | 4.357 | 0.000 | 0.000 | 0.037 | 0.037 | 14 | 8.911 | 0.000 | 0.000 | 0.047 | 0.047 | 36 |
| **16** | 13.00 | 0.000 | 0.000 | 0.038 | 0.038 | 43 | 4.403 | 0.000 | 0.000 | 0.035 | 0.035 | 13 | 15.03 | 0.000 | 0.000 | 0.046 | 0.046 | 60 |
| **17** | 13.77 | 0.000 | 0.000 | 0.018 | 0.018 | 22 | 9.991 | 0.000 | 0.000 | 0.071 | 0.071 | 61 | 20.38 | 0.000 | 0.000 | 0.045 | 0.045 | 80 |
| **18** | 11.15 | 0.000 | 0.000 | 0.022 | 0.022 | 21 | 7.905 | 0.000 | 0.000 | 0.033 | 0.033 | 23 | 16.34 | 0.000 | 0.000 | 0.036 | 0.036 | 51 |
| **19** | 13.11 | 0.000 | 0.000 | 0.050 | 0.050 | 57 | 6.964 | 0.000 | 0.000 | 0.033 | 0.033 | 20 | 11.38 | 0.000 | 0.000 | 0.034 | 0.034 | 33 |
| **20** | 15.56 | 0.000 | 0.000 | 0.021 | 0.021 | 29 | 5.723 | 0.000 | 0.000 | 0.047 | 0.047 | 23 | 40.26 | 0.000 | 0.000 | 0.036 | 0.036 | 125 |
| **21** | 15.05 | 0.000 | 0.000 | 0.026 | 0.026 | 34 | 5.701 | 0.000 | 0.000 | 0.037 | 0.037 | 18 | 40.60 | 0.000 | 0.000 | 0.024 | 0.024 | 83 |
| **22** | 12.87 | 0.000 | 0.000 | 0.052 | 0.052 | 57 | 6.653 | 0.000 | 0.000 | 0.081 | 0.081 | 47 | 34.34 | 0.000 | 0.000 | 0.028 | 0.028 | 84 |
| **23** | 12.15 | 0.000 | 0.000 | 0.039 | 0.039 | 41 | 22.21 | 0.000 | 0.000 | 0.055 | 0.055 | 105 | 20.82 | 0.000 | 0.000 | 0.045 | 0.045 | 81 |
| **24** | 13.29 | 0.000 | 0.000 | 0.030 | 0.030 | 35 | 21.64 | 0.000 | 0.000 | 0.059 | 0.059 | 110 | 16.38 | 0.000 | 0.000 | 0.037 | 0.037 | 52 |
| **25** | 11.89 | 0.000 | 0.000 | 0.051 | 0.051 | 52 | 21.43 | 0.000 | 0.000 | 0.057 | 0.057 | 105 | 14.99 | 0.000 | 0.000 | 0.036 | 0.036 | 46 |
| **26** | 5.709 | 0.000 | 0.000 | 0.019 | 0.019 | 9 | 15.03 | 0.000 | 0.000 | 0.029 | 0.029 | 38 | 11.38 | 0.000 | 0.000 | 0.035 | 0.035 | 35 |
| **27** | 5.734 | 0.000 | 0.000 | 0.036 | 0.036 | 18 | 14.95 | 0.000 | 0.000 | 0.029 | 0.029 | 38 | 10.23 | 0.000 | 0.000 | 0.043 | 0.043 | 38 |
| **28** | 4.480 | 0.000 | 0.000 | 0.036 | 0.036 | 14 | 11.71 | 0.000 | 0.000 | 0.028 | 0.028 | 28 | 11.02 | 0.000 | 0.000 | 0.047 | 0.047 | 44 |
| **29** | 4.333 | 0.000 | 0.000 | 0.036 | 0.036 | 13 | 3.379 | 0.000 | 0.000 | 0.055 | 0.055 | 16 | 10.31 | 0.000 | 0.000 | 0.044 | 0.044 | 39 |
| **30** | 4.553 | 0.000 | 0.000 | 0.087 | 0.087 | 34 | 5.868 | 0.000 | 0.000 | 0.043 | 0.043 | 22 | 10.86 | 0.000 | 0.000 | 0.046 | 0.046 | 43 |
| **31** | | | | | | | 5.387 | 0.000 | 0.000 | 0.056 | 0.056 | 26 | 11.05 | 0.000 | 0.000 | 0.051 | 0.051 | 48 |
| **Ten Daily Mean** | | | | | | | | | | | | | | | | | | |
| **Ten Daily I** | 24.29 | 0.000 | 0.000 | 0.026 | 0.026 | 61 | 4.305 | 0.000 | 0.000 | 0.057 | 0.057 | 22 | 7.472 | 0.000 | 0.000 | 0.041 | 0.041 | 29 |
| **Ten Daily II** | 13.17 | 0.000 | 0.000 | 0.026 | 0.026 | 29 | 5.562 | 0.000 | 0.000 | 0.044 | 0.044 | 22 | 15.31 | 0.000 | 0.000 | 0.038 | 0.038 | 50 |
| **Ten Daily III** | 9.006 | 0.000 | 0.000 | 0.041 | 0.041 | 31 | 12.18 | 0.000 | 0.000 | 0.048 | 0.048 | 50 | 17.45 | 0.000 | 0.000 | 0.040 | 0.040 | 54 |
| **Monthly** | | | | | | | | | | | | | | | | | | |
| **Total** | | | | | | 1209 | | | | | | 987 | | | | | | 1387 |

**Annual Sediment Load (Metric Tonnes) : 28468**

## Daily Observed Sediment Datasheet for period : 2015-2016

**Station Name : Gummanur ( CP000R5)** **Division : SR Division, Coimbatore**

**Local River : Ponnaiyar** **Sub-Division : Lower Cauvery SD, Trichi**

| Day | Sep | | | | | | Oct | | | | | | Nov | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day |
| **1** | 10.26 | 0.000 | 0.000 | 0.053 | 0.053 | 47 | 42.92 | 0.000 | 0.000 | 0.034 | 0.034 | 127 | 13.95 | 0.000 | 0.000 | 0.051 | 0.051 | 61 |
| **2** | 4.222 | 0.000 | 0.000 | 0.025 | 0.025 | 9 | 38.47 | 0.000 | 0.000 | 0.061 | 0.061 | 203 | 27.96 | 0.000 | 0.000 | 0.062 | 0.062 | 150 |
| **3** | 3.368 | 0.000 | 0.000 | 0.026 | 0.026 | 8 | 39.83 | 0.000 | 0.000 | 0.063 | 0.063 | 218 | 16.24 | 0.000 | 0.000 | 0.059 | 0.059 | 83 |
| **4** | 5.873 | 0.000 | 0.000 | 0.043 | 0.043 | 22 | 21.73 | 0.000 | 0.000 | 0.034 | 0.034 | 64 | 45.02 | 0.000 | 0.000 | 0.061 | 0.061 | 237 |
| **5** | 5.886 | 0.000 | 0.000 | 0.038 | 0.038 | 19 | 60.27 | 0.003 | 0.037 | 0.450 | 0.490 | 2552 | 73.23 | 0.000 | 0.000 | 0.180 | 0.180 | 1139 |
| **6** | 14.35 | 0.000 | 0.000 | 0.039 | 0.039 | 48 | 40.07 | 0.000 | 0.000 | 0.065 | 0.065 | 226 | 71.47 | 0.000 | 0.000 | 0.067 | 0.067 | 416 |
| **7** | 16.08 | 0.000 | 0.000 | 0.044 | 0.044 | 61 | 40.60 | 0.000 | 0.000 | 0.036 | 0.036 | 126 | 65.97 | 0.000 | 0.000 | 0.035 | 0.035 | 201 |
| **8** | 78.88 | 0.005 | 0.077 | 0.444 | 0.527 | 3589 | 67.41 | 0.000 | 0.000 | 0.054 | 0.054 | 315 | 31.70 | 0.000 | 0.000 | 0.029 | 0.029 | 79 |
| **9** | 78.30 | 0.000 | 0.015 | 0.094 | 0.109 | 736 | 60.45 | 0.000 | 0.000 | 0.040 | 0.040 | 209 | 22.77 | 0.000 | 0.000 | 0.036 | 0.036 | 70 |
| **10** | 62.61 | 0.000 | 0.000 | 0.033 | 0.033 | 181 | 39.65 | 0.000 | 0.000 | 0.026 | 0.026 | 89 | 125.4 | 0.000 | 0.000 | 0.106 | 0.106 | 1148 |
| **11** | 67.14 | 0.000 | 0.000 | 0.045 | 0.045 | 263 | 37.00 | 0.000 | 0.000 | 0.059 | 0.059 | 189 | 74.86 | 0.000 | 0.000 | 0.063 | 0.063 | 406 |
| **12** | 40.35 | 0.000 | 0.000 | 0.023 | 0.023 | 79 | 81.29 | 0.000 | 0.000 | 0.097 | 0.097 | 679 | 69.29 | 0.000 | 0.000 | 0.046 | 0.046 | 275 |
| **13** | 23.97 | 0.000 | 0.000 | 0.059 | 0.059 | 122 | 40.61 | 0.000 | 0.000 | 0.080 | 0.080 | 279 | 75.07 | 0.000 | 0.000 | 0.044 | 0.044 | 285 |
| **14** | 11.47 | 0.000 | 0.000 | 0.042 | 0.042 | 42 | 16.23 | 0.000 | 0.000 | 0.048 | 0.048 | 67 | 66.64 | 0.000 | 0.000 | 0.023 | 0.023 | 131 |
| **15** | 9.565 | 0.000 | 0.000 | 0.047 | 0.047 | 39 | 14.32 | 0.000 | 0.000 | 0.047 | 0.047 | 59 | 64.31 | 0.000 | 0.000 | 0.034 | 0.034 | 189 |
| **16** | 7.666 | 0.000 | 0.000 | 0.056 | 0.056 | 37 | 7.246 | 0.000 | 0.000 | 0.064 | 0.064 | 40 | 44.76 | 0.000 | 0.000 | 0.022 | 0.022 | 84 |
| **17** | 7.396 | 0.000 | 0.000 | 0.056 | 0.056 | 36 | 9.581 | 0.000 | 0.000 | 0.066 | 0.066 | 54 | 42.69 | 0.000 | 0.000 | 0.021 | 0.021 | 78 |
| **18** | 6.833 | 0.000 | 0.000 | 0.064 | 0.064 | 38 | 8.011 | 0.000 | 0.000 | 0.055 | 0.055 | 38 | 27.89 | 0.000 | 0.000 | 0.027 | 0.027 | 66 |
| **19** | 6.663 | 0.000 | 0.000 | 0.065 | 0.065 | 37 | 7.458 | 0.000 | 0.000 | 0.071 | 0.071 | 46 | 42.74 | 0.000 | 0.000 | 0.024 | 0.024 | 89 |
| **20** | 8.011 | 0.000 | 0.000 | 0.056 | 0.056 | 39 | 7.542 | 0.000 | 0.000 | 0.057 | 0.057 | 37 | 41.23 | 0.000 | 0.000 | 0.020 | 0.020 | 70 |
| **21** | 9.497 | 0.000 | 0.000 | 0.038 | 0.038 | 31 | 2.329 | 0.000 | 0.000 | 0.089 | 0.089 | 18 | 60.45 | 0.000 | 0.000 | 0.041 | 0.041 | 216 |
| **22** | 7.363 | 0.000 | 0.000 | 0.056 | 0.056 | 36 | 1.736 | 0.000 | 0.000 | 0.066 | 0.066 | 10 | 52.18 | 0.000 | 0.000 | 0.031 | 0.031 | 140 |
| **23** | 11.06 | 0.000 | 0.000 | 0.052 | 0.052 | 50 | 1.736 | 0.000 | 0.000 | 0.066 | 0.066 | 10 | 50.35 | 0.000 | 0.000 | 0.030 | 0.030 | 131 |
| **24** | 10.76 | 0.000 | 0.000 | 0.057 | 0.057 | 53 | 1.474 | 0.000 | 0.000 | 0.056 | 0.056 | 7 | 60.45 | 0.000 | 0.000 | 0.050 | 0.050 | 261 |
| **25** | 22.31 | 0.000 | 0.000 | 0.165 | 0.165 | 318 | 2.663 | 0.000 | 0.000 | 0.101 | 0.101 | 23 | 53.63 | 0.000 | 0.000 | 0.031 | 0.031 | 144 |
| **26** | 16.23 | 0.000 | 0.000 | 0.051 | 0.051 | 71 | 7.288 | 0.000 | 0.000 | 0.038 | 0.038 | 24 | 46.27 | 0.000 | 0.000 | 0.043 | 0.043 | 173 |
| **27** | 22.83 | 0.000 | 0.000 | 0.059 | 0.059 | 116 | 7.419 | 0.000 | 0.000 | 0.047 | 0.047 | 30 | 40.23 | 0.000 | 0.000 | 0.022 | 0.022 | 78 |
| **28** | 22.44 | 0.000 | 0.000 | 0.055 | 0.055 | 107 | 7.635 | 0.000 | 0.000 | 0.062 | 0.062 | 41 | 33.79 | 0.000 | 0.000 | 0.031 | 0.031 | 92 |
| **29** | 22.71 | 0.000 | 0.000 | 0.059 | 0.059 | 115 | 9.667 | 0.000 | 0.000 | 0.036 | 0.036 | 30 | 31.70 | 0.000 | 0.000 | 0.029 | 0.029 | 79 |
| **30** | 40.31 | 0.000 | 0.000 | 0.043 | 0.043 | 150 | 9.523 | 0.000 | 0.000 | 0.028 | 0.028 | 23 | 23.74 | 0.000 | 0.000 | 0.027 | 0.027 | 55 |
| **31** | | | | | | | 10.59 | 0.000 | 0.000 | 0.057 | 0.057 | 52 | | | | | | |
| **Ten Daily Mean** | | | | | | | | | | | | | | | | | | |
| **Ten Daily I** | 27.98 | 0.001 | 0.009 | 0.084 | 0.094 | 472 | 45.14 | 0.000 | 0.004 | 0.086 | 0.090 | 413 | 49.37 | 0.000 | 0.000 | 0.069 | 0.069 | 358 |
| **Ten Daily II** | 18.91 | 0.000 | 0.000 | 0.051 | 0.051 | 73 | 22.93 | 0.000 | 0.000 | 0.064 | 0.064 | 149 | 54.95 | 0.000 | 0.000 | 0.032 | 0.032 | 167 |
| **Ten Daily III** | 18.55 | 0.000 | 0.000 | 0.064 | 0.064 | 105 | 5.642 | 0.000 | 0.000 | 0.059 | 0.059 | 24 | 45.28 | 0.000 | 0.000 | 0.034 | 0.034 | 137 |
| **Monthly** | | | | | | | | | | | | | | | | | | |
| **Total** | | | | | | 6499 | | | | | | 5885 | | | | | | 6624 |

**Annual Sediment Load (Metric Tonnes) : 28468**

## Daily Observed Sediment Datasheet for period : 2015-2016

**Station Name : Gummanur ( CP000R5)** **Division : SR Division, Coimbatore**

**Local River : Ponnaiyar** **Sub-Division : Lower Cauvery SD, Trichi**

| Day | Dec | | | | | | Jan | | | | | | Feb | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day |
| **1** | 25.74 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 10.97 | 0.000 | 0.000 | 0.038 | 0.038 | 36 | 10.83 | 0.000 | 0.000 | 0.038 | 0.038 | 35 |
| **2** | 27.96 | 0.000 | 0.000 | 0.016 | 0.016 | 38 | 9.795 | 0.000 | 0.000 | 0.063 | 0.063 | 53 | 6.222 | 0.000 | 0.000 | 0.031 | 0.031 | 17 |
| **3** | 28.77 | 0.000 | 0.000 | 0.023 | 0.023 | 58 | 10.65 | 0.000 | 0.000 | 0.068 | 0.068 | 63 | 5.706 | 0.000 | 0.000 | 0.028 | 0.028 | 14 |
| **4** | 25.40 | 0.000 | 0.000 | 0.032 | 0.032 | 69 | 9.395 | 0.000 | 0.000 | 0.041 | 0.041 | 33 | 6.222 | 0.000 | 0.000 | 0.054 | 0.054 | 29 |
| **5** | 22.93 | 0.000 | 0.000 | 0.038 | 0.038 | 76 | 9.129 | 0.000 | 0.000 | 0.047 | 0.047 | 37 | 7.287 | 0.000 | 0.000 | 0.014 | 0.014 | 9 |
| **6** | 22.27 | 0.000 | 0.000 | 0.037 | 0.037 | 71 | 8.852 | 0.000 | 0.000 | 0.059 | 0.059 | 45 | 7.260 | 0.000 | 0.000 | 0.016 | 0.016 | 10 |
| **7** | 23.02 | 0.000 | 0.000 | 0.040 | 0.040 | 80 | 8.767 | 0.000 | 0.000 | 0.022 | 0.022 | 16 | 9.875 | 0.000 | 0.000 | 0.035 | 0.035 | 30 |
| **8** | 20.94 | 0.000 | 0.000 | 0.032 | 0.032 | 58 | 9.038 | 0.000 | 0.000 | 0.035 | 0.035 | 27 | 10.76 | 0.000 | 0.000 | 0.042 | 0.042 | 39 |
| **9** | 15.79 | 0.000 | 0.000 | 0.087 | 0.087 | 118 | 9.152 | 0.000 | 0.000 | 0.036 | 0.036 | 29 | 7.436 | 0.000 | 0.000 | 0.018 | 0.018 | 12 |
| **10** | 21.40 | 0.000 | 0.000 | 0.038 | 0.038 | 70 | 9.203 | 0.000 | 0.000 | 0.036 | 0.036 | 29 | 7.374 | 0.000 | 0.000 | 0.046 | 0.046 | 29 |
| **11** | 14.76 | 0.000 | 0.000 | 0.037 | 0.037 | 48 | 8.969 | 0.000 | 0.000 | 0.011 | 0.011 | 9 | 7.310 | 0.000 | 0.000 | 0.044 | 0.044 | 28 |
| **12** | 10.99 | 0.000 | 0.000 | 0.049 | 0.049 | 47 | 6.163 | 0.000 | 0.000 | 0.033 | 0.033 | 18 | 6.896 | 0.000 | 0.000 | 0.050 | 0.050 | 30 |
| **13** | 10.65 | 0.000 | 0.000 | 0.047 | 0.047 | 43 | 6.107 | 0.000 | 0.000 | 0.037 | 0.037 | 20 | 7.439 | 0.000 | 0.000 | 0.016 | 0.016 | 10 |
| **14** | 14.23 | 0.000 | 0.000 | 0.039 | 0.039 | 48 | 6.488 | 0.000 | 0.000 | 0.059 | 0.059 | 33 | 9.197 | 0.000 | 0.000 | 0.020 | 0.020 | 16 |
| **15** | 14.08 | 0.000 | 0.000 | 0.112 | 0.112 | 137 | 5.919 | 0.000 | 0.000 | 0.054 | 0.054 | 28 | 7.394 | 0.000 | 0.000 | 0.015 | 0.015 | 10 |
| **16** | 9.923 | 0.000 | 0.000 | 0.158 | 0.158 | 136 | 8.938 | 0.000 | 0.000 | 0.041 | 0.041 | 31 | 7.659 | 0.000 | 0.000 | 0.023 | 0.023 | 15 |
| **17** | 14.72 | 0.000 | 0.000 | 0.101 | 0.101 | 128 | 9.203 | 0.000 | 0.000 | 0.042 | 0.042 | 33 | 3.686 | 0.000 | 0.000 | 0.019 | 0.019 | 6 |
| **18** | 12.82 | 0.000 | 0.000 | 0.093 | 0.093 | 103 | 8.942 | 0.000 | 0.000 | 0.028 | 0.028 | 22 | 4.172 | 0.000 | 0.000 | 0.029 | 0.029 | 10 |
| **19** | 15.57 | 0.000 | 0.000 | 0.052 | 0.052 | 70 | 8.960 | 0.000 | 0.000 | 0.028 | 0.028 | 22 | 4.211 | 0.000 | 0.000 | 0.030 | 0.030 | 11 |
| **20** | 12.78 | 0.000 | 0.000 | 0.025 | 0.025 | 28 | 10.71 | 0.000 | 0.000 | 0.019 | 0.019 | 18 | 4.220 | 0.000 | 0.000 | 0.027 | 0.027 | 10 |
| **21** | 12.49 | 0.000 | 0.000 | 0.025 | 0.025 | 27 | 10.96 | 0.000 | 0.000 | 0.032 | 0.032 | 31 | 7.330 | 0.000 | 0.000 | 0.033 | 0.033 | 21 |
| **22** | 11.36 | 0.000 | 0.000 | 0.030 | 0.030 | 30 | 11.55 | 0.000 | 0.000 | 0.025 | 0.025 | 25 | 11.56 | 0.000 | 0.000 | 0.041 | 0.041 | 41 |
| **23** | 9.852 | 0.000 | 0.000 | 0.065 | 0.065 | 56 | 10.53 | 0.000 | 0.000 | 0.033 | 0.033 | 30 | 10.74 | 0.000 | 0.000 | 0.039 | 0.039 | 36 |
| **24** | 12.23 | 0.000 | 0.000 | 0.081 | 0.081 | 86 | 9.875 | 0.000 | 0.000 | 0.031 | 0.031 | 26 | 6.177 | 0.000 | 0.000 | 0.033 | 0.033 | 17 |
| **25** | 11.69 | 0.000 | 0.000 | 0.077 | 0.077 | 78 | 10.26 | 0.000 | 0.000 | 0.019 | 0.019 | 17 | 4.967 | 0.000 | 0.000 | 0.041 | 0.041 | 18 |
| **26** | 9.830 | 0.000 | 0.000 | 0.044 | 0.044 | 37 | 9.875 | 0.000 | 0.000 | 0.031 | 0.031 | 26 | 5.002 | 0.000 | 0.000 | 0.034 | 0.034 | 14 |
| **27** | 10.65 | 0.000 | 0.000 | 0.048 | 0.048 | 44 | 10.72 | 0.000 | 0.000 | 0.029 | 0.029 | 27 | 3.685 | 0.000 | 0.000 | 0.045 | 0.045 | 14 |
| **28** | 10.06 | 0.000 | 0.000 | 0.032 | 0.032 | 28 | 10.05 | 0.000 | 0.000 | 0.029 | 0.029 | 25 | 3.139 | 0.000 | 0.000 | 0.044 | 0.044 | 12 |
| **29** | 11.83 | 0.000 | 0.000 | 0.023 | 0.023 | 23 | 12.04 | 0.000 | 0.000 | 0.036 | 0.036 | 37 | 2.467 | 0.000 | 0.000 | 0.043 | 0.043 | 9 |
| **30** | 9.219 | 0.000 | 0.000 | 0.034 | 0.034 | 27 | 12.20 | 0.000 | 0.000 | 0.030 | 0.030 | 32 | | | | | | |
| **31** | 9.778 | 0.000 | 0.000 | 0.028 | 0.028 | 24 | 14.53 | 0.000 | 0.000 | 0.036 | 0.036 | 45 | | | | | | |
| **Ten Daily Mean** | | | | | | | | | | | | | | | | | | |
| **Ten Daily I** | 23.42 | 0.000 | 0.000 | 0.034 | 0.034 | 64 | 9.495 | 0.000 | 0.000 | 0.044 | 0.044 | 37 | 7.897 | 0.000 | 0.000 | 0.032 | 0.032 | 22 |
| **Ten Daily II** | 13.05 | 0.000 | 0.000 | 0.071 | 0.071 | 79 | 8.040 | 0.000 | 0.000 | 0.035 | 0.035 | 23 | 6.219 | 0.000 | 0.000 | 0.027 | 0.027 | 15 |
| **Ten Daily III** | 10.82 | 0.000 | 0.000 | 0.044 | 0.044 | 42 | 11.14 | 0.000 | 0.000 | 0.030 | 0.030 | 29 | 6.119 | 0.000 | 0.000 | 0.039 | 0.039 | 20 |
| **Monthly** | | | | | | | | | | | | | | | | | | |
| **Total** | | | | | | 1885 | | | | | | 922 | | | | | | 553 |

**Annual Sediment Load (Metric Tonnes) : 28468**

## Daily Observed Sediment Datasheet for period : 2015-2016

**Station Name : Gummanur ( CP000R5)** **Division : SR Division, Coimbatore**

**Local River : Ponnaiyar** **Sub-Division : Lower Cauvery SD, Trichi**

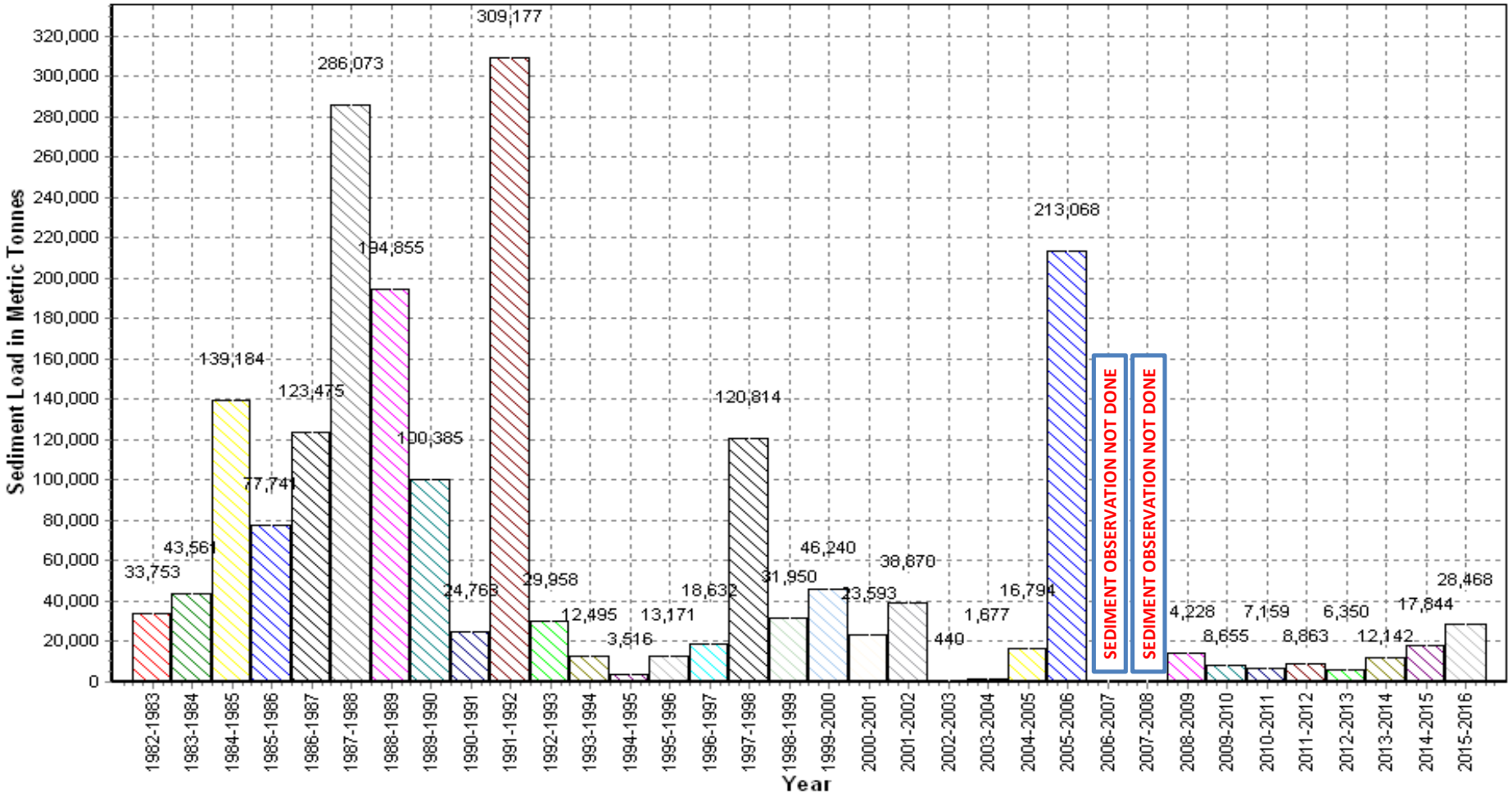
| Day | Mar | | | | | | Apr | | | | | | May | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day |
| **1** | 5.032 | 0.000 | 0.000 | 0.062 | 0.062 | 27 | 11.33 | 0.000 | 0.000 | 0.031 | 0.031 | 30 | 2.768 | 0.000 | 0.000 | 0.018 | 0.018 | 4 |
| **2** | 3.850 | 0.000 | 0.000 | 0.051 | 0.051 | 17 | 9.029 | 0.000 | 0.000 | 0.037 | 0.037 | 29 | 3.342 | 0.000 | 0.000 | 0.022 | 0.022 | 6 |
| **3** | 10.69 | 0.000 | 0.000 | 0.058 | 0.058 | 53 | 7.263 | 0.000 | 0.000 | 0.030 | 0.030 | 19 | 0.471 | 0.000 | 0.000 | 0.017 | 0.017 | 1 |
| **4** | 10.61 | 0.000 | 0.000 | 0.053 | 0.053 | 49 | 11.23 | 0.000 | 0.000 | 0.036 | 0.036 | 35 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| **5** | 10.17 | 0.000 | 0.000 | 0.046 | 0.046 | 40 | 10.43 | 0.000 | 0.000 | 0.027 | 0.027 | 24 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| **6** | 8.541 | 0.000 | 0.000 | 0.039 | 0.039 | 29 | 7.787 | 0.000 | 0.000 | 0.029 | 0.029 | 20 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| **7** | 10.33 | 0.000 | 0.000 | 0.045 | 0.045 | 40 | 0.964 | 0.000 | 0.000 | 0.081 | 0.081 | 7 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| **8** | 7.536 | 0.000 | 0.000 | 0.046 | 0.046 | 30 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 1.754 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| **9** | 6.388 | 0.000 | 0.000 | 0.051 | 0.051 | 28 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 1.023 | 0.000 | 0.000 | 0.015 | 0.015 | 1 |
| **10** | 4.700 | 0.000 | 0.000 | 0.076 | 0.076 | 31 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.471 | 0.000 | 0.000 | 0.050 | 0.050 | 2 |
| **11** | 4.681 | 0.000 | 0.000 | 0.045 | 0.045 | 18 | 1.897 | 0.000 | 0.000 | 0.022 | 0.022 | 4 | 0.073 | 0.000 | 0.000 | 0.041 | 0.041 | 0 |
| **12** | 3.786 | 0.000 | 0.000 | 0.055 | 0.055 | 18 | 5.002 | 0.000 | 0.000 | 0.018 | 0.018 | 8 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| **13** | 3.647 | 0.000 | 0.000 | 0.053 | 0.053 | 17 | 7.191 | 0.000 | 0.000 | 0.025 | 0.025 | 16 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| **14** | 2.884 | 0.000 | 0.000 | 0.046 | 0.046 | 12 | 6.858 | 0.000 | 0.000 | 0.024 | 0.024 | 14 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| **15** | 3.878 | 0.000 | 0.000 | 0.037 | 0.037 | 13 | 7.269 | 0.000 | 0.000 | 0.030 | 0.030 | 19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| **16** | 4.447 | 0.000 | 0.000 | 0.029 | 0.029 | 11 | 6.407 | 0.000 | 0.000 | 0.034 | 0.034 | 19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| **17** | 4.629 | 0.000 | 0.000 | 0.040 | 0.040 | 16 | 4.971 | 0.000 | 0.000 | 0.017 | 0.017 | 7 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| **18** | 3.849 | 0.000 | 0.000 | 0.030 | 0.030 | 10 | 4.626 | 0.000 | 0.000 | 0.016 | 0.016 | 6 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| **19** | 12.05 | 0.000 | 0.000 | 0.022 | 0.022 | 23 | 4.964 | 0.000 | 0.000 | 0.073 | 0.073 | 31 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| **20** | 9.440 | 0.000 | 0.000 | 0.017 | 0.017 | 14 | 4.626 | 0.000 | 0.000 | 0.068 | 0.068 | 27 | 16.13 | 0.000 | 0.000 | 0.045 | 0.045 | 63 |
| **21** | 11.32 | 0.000 | 0.000 | 0.022 | 0.022 | 22 | 5.029 | 0.000 | 0.000 | 0.093 | 0.093 | 40 | 8.986 | 0.000 | 0.000 | 0.025 | 0.025 | 19 |
| **22** | 13.84 | 0.000 | 0.000 | 0.040 | 0.040 | 48 | 4.816 | 0.000 | 0.000 | 0.025 | 0.025 | 10 | 23.59 | 0.000 | 0.000 | 0.096 | 0.096 | 196 |
| **23** | 14.97 | 0.000 | 0.000 | 0.034 | 0.034 | 43 | 4.626 | 0.000 | 0.000 | 0.024 | 0.024 | 10 | 23.72 | 0.000 | 0.000 | 0.096 | 0.096 | 196 |
| **24** | 16.65 | 0.000 | 0.000 | 0.030 | 0.030 | 44 | 2.237 | 0.000 | 0.000 | 0.012 | 0.012 | 2 | 28.46 | 0.000 | 0.000 | 0.068 | 0.068 | 168 |
| **25** | 19.72 | 0.000 | 0.000 | 0.036 | 0.036 | 61 | 7.210 | 0.000 | 0.000 | 0.026 | 0.026 | 16 | 21.77 | 0.000 | 0.000 | 0.058 | 0.058 | 109 |
| **26** | 25.09 | 0.000 | 0.000 | 0.025 | 0.025 | 54 | 5.028 | 0.000 | 0.000 | 0.026 | 0.026 | 11 | 13.44 | 0.000 | 0.000 | 0.029 | 0.029 | 33 |
| **27** | 21.62 | 0.000 | 0.000 | 0.023 | 0.023 | 43 | 6.752 | 0.000 | 0.000 | 0.042 | 0.042 | 25 | 12.83 | 0.000 | 0.000 | 0.030 | 0.030 | 33 |
| **28** | 21.42 | 0.000 | 0.000 | 0.023 | 0.023 | 42 | 0.962 | 0.000 | 0.000 | 0.036 | 0.036 | 3 | 14.17 | 0.000 | 0.000 | 0.050 | 0.050 | 61 |
| **29** | 20.86 | 0.000 | 0.000 | 0.027 | 0.027 | 49 | 1.038 | 0.000 | 0.000 | 0.017 | 0.017 | 2 | 16.72 | 0.000 | 0.000 | 0.059 | 0.059 | 85 |
| **30** | 15.95 | 0.000 | 0.000 | 0.050 | 0.050 | 69 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 10.58 | 0.000 | 0.000 | 0.052 | 0.052 | 47 |
| **31** | 12.57 | 0.000 | 0.000 | 0.031 | 0.031 | 34 | | | | | | | 9.737 | 0.000 | 0.000 | 0.066 | 0.066 | 55 |
| **Ten Daily Mean** | | | | | | | | | | | | | | | | | | |
| **Ten Daily I** | 7.785 | 0.000 | 0.000 | 0.053 | 0.053 | 34 | 5.802 | 0.000 | 0.000 | 0.027 | 0.027 | 16 | 0.983 | 0.000 | 0.000 | 0.012 | 0.012 | 1 |
| **Ten Daily II** | 5.329 | 0.000 | 0.000 | 0.037 | 0.037 | 15 | 5.381 | 0.000 | 0.000 | 0.033 | 0.033 | 15 | 1.621 | 0.000 | 0.000 | 0.009 | 0.009 | 6 |
| **Ten Daily III** | 17.64 | 0.000 | 0.000 | 0.031 | 0.031 | 46 | 3.770 | 0.000 | 0.000 | 0.030 | 0.030 | 12 | 16.73 | 0.000 | 0.000 | 0.057 | 0.057 | 91 |
| **Monthly** | | | | | | | | | | | | | | | | | | |
| **Total** | | | | | | 1003 | | | | | | 434 | | | | | | 1081 |

**Annual Sediment Load (Metric Tonnes) : 28468**

**Annual Sediment Load for the period: 1982-2016**

**Station Name : Gummanur ( CP000R5)**
**Local River : Ponnaiyar**

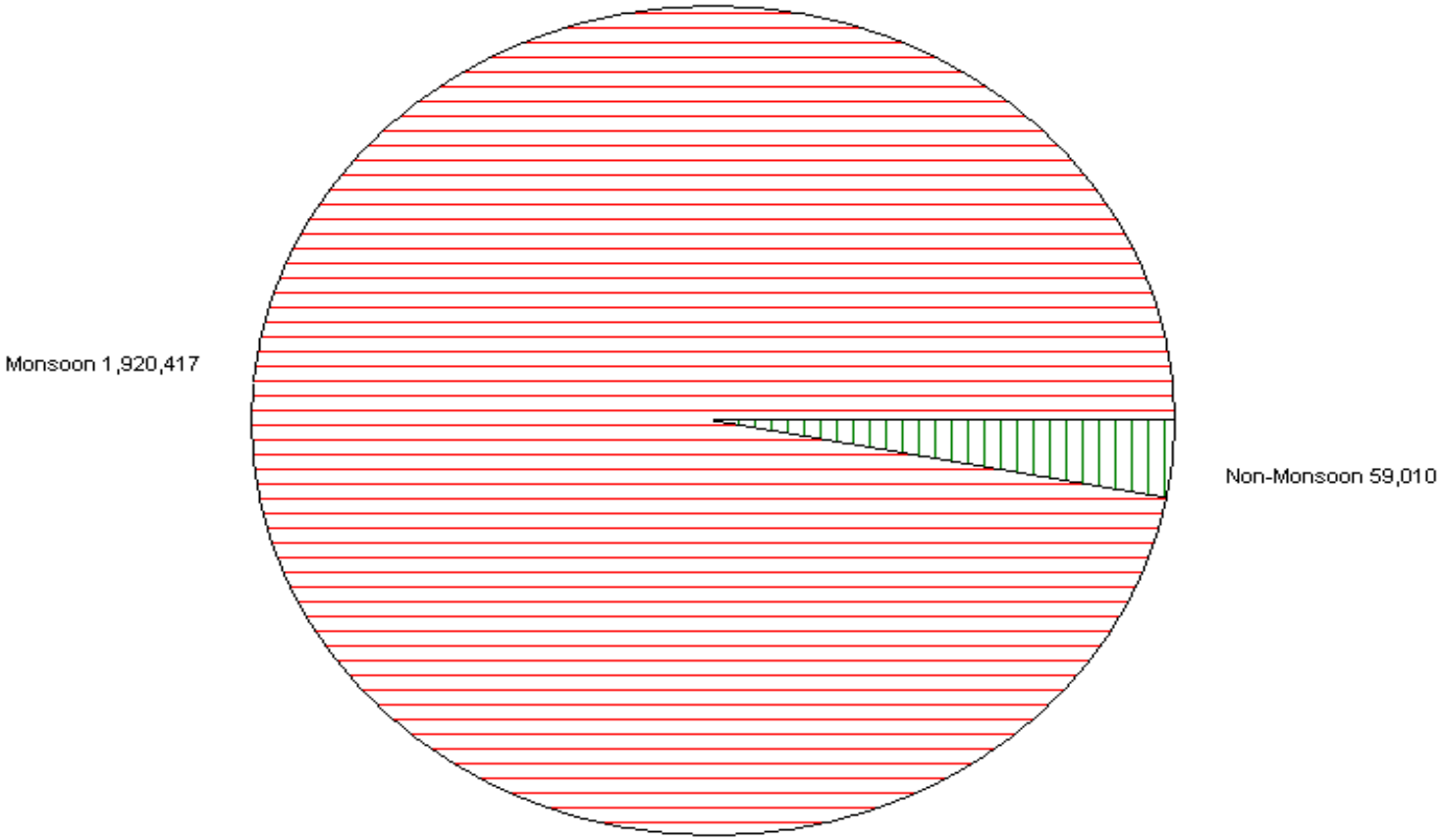
**Division : SR Division, Coimbatore**
**Sub-Division : Lower Cauvery SD, Trichi**



**Seasonal Sediment Load for the period : 1982-2015**

**Station Name : Gummanur ( CP000R5)**
**Local River : Ponnaiyar**

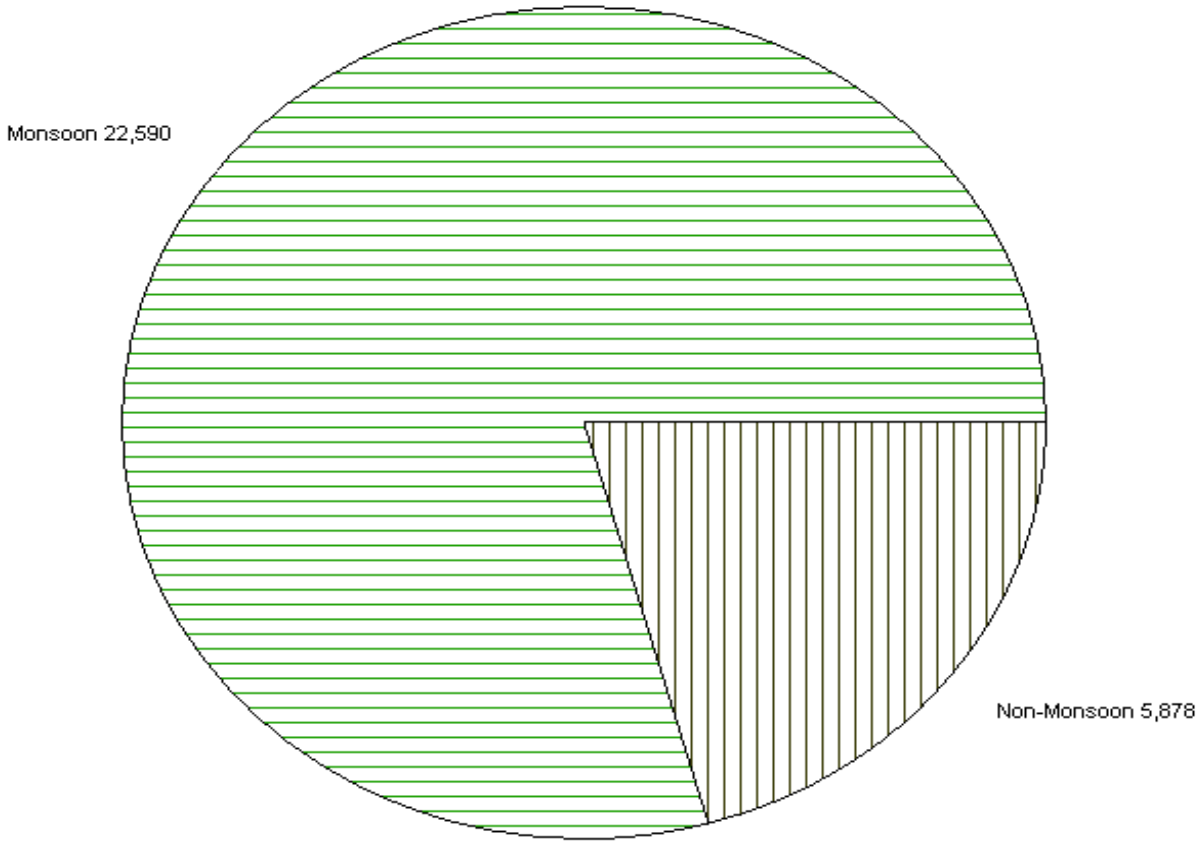
**Division : SR Division, Coimbatore**
**Sub-Division : Lower Cauvery SD, Trichi**



**Seasonal Sediment Load for the Year: 2015-2016**

**Station Name : Gummanur ( CP000R5)**
**Local River : Ponnaiyar**

**Division : SR Division, Coimbatore**
**Sub-Division : Lower Cauvery SD, Trichi**



# BED MATERIAL ANALYSIS DATA

**RIVER : Ponnaiyar** **CODE No. : CP000R5**

**SITE : Gummanur** **CROSS SECTION : SGL**

| Sl.No. | DATA FOR SAMPLE COLLECTED | | | | | | | | | | GENERAL DATA OF THE RIVER | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | R.D.(m) | R.L. OF DRY BED (m) | R.L. OF BED LEVEL (m) | W.L.(GTS) OF THE SAMPLING DEPTH (m) | DEPTH OF WATER (m) | WIDTH (m) | VELOCITY (m/s) | DISCHARGE ($m^3/s$) | Bed Material Composition | | WETTED PERIMETER (m) | HYDRAULIC MEAN DEPTH (m) | MEAN VELOCITY (m/s) | SURFACE WATER SLOPE | DISCHARGE ($m^3/s$) | Bed Material Composition | |
| | | | | | | | | | MAX SIZE (mm) | MEAN SIZE (mm) | | | | | | MAX SIZE (mm) | MEAN SIZE (mm) |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| | MONSOON 2015 | | | | **DATE OF COLLECTION** | | | | | | **15/10/2015** | | | | | | |
| 1 | 60 | - | 489.125 | 491.410 | 2.29 | 21.1 | - | 14.330 | 11.0 | 1.67 | | | | | | | |
| 2 | 80 | - | 489.045 | 491.410 | 2.37 | 20.0 | - | 14.330 | 17.0 | 2.83 | | | | | | | |
| 3 | 100 | - | 488.915 | 491.410 | 2.50 | 20.0 | - | 14.330 | 19.0 | 3.58 | 82.61 | 1.965 | 0.088 | 0.00008 | 14.33 | 25.0 | 2.69 |
| | POST MONSOON 2015 | | | | **DATE OF COLLECTION** | | | | | | **19/01/2016** | | | | | | |
| 1 | 60 | - | 489.115 | 491.310 | 2.19 | 21.1 | - | 4.197 | 12.0 | 1.57 | | | | | | | |
| 2 | 80 | - | 489.035 | 491.310 | 2.27 | 20.0 | - | 4.197 | 16.0 | 2.66 | | | | | | | |
| 3 | 100 | - | 488.900 | 491.310 | 2.41 | 20.0 | - | 4.197 | 19.0 | 2.98 | 82.49 | 1.785 | 0.028 | 0.00008 | 4.197 | 19.0 | 2.40 |
| | PRE MONSOON 2016 | | | | **DATE OF COLLECTION** | | | | | | **07/05/2016** | | | | | | |
| 1 | 60 | - | 489.110 | 491.045 | 1.935 | 21.1 | - | Stagnated water | 16.0 | 1.56 | | | | | | | |
| 2 | 80 | - | 489.000 | 491.045 | 2.045 | 20.0 | - | | 19.0 | 2.67 | | | | | | | |
| 3 | 100 | - | 488.890 | 491.045 | 2.155 | 20.0 | - | | 18.0 | 3.34 | | | | | | 19.0 | 2.52 |

# BED MATERIAL ANALYSIS DATA

**RIVER : Vaigai** **CODE No. : CV000F3**

**SITE : Paramakudi** **CROSS SECTION : SGL**

| Sl.No. | DATA FOR SAMPLE COLLECTED | | | | | | | | | | GENERAL DATA OF THE RIVER | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | R.D.(m) | R.L. OF DRY BED (m) | R.L. OF BED LEVEL (m) | W.L.(GTS) OF THE SAMPLING DEPTH (m) | DEPTH OF WATER (m) | WIDTH (m) | VELOCITY (m/s) | DISCHARGE ($m^3/s$) | Bed Material Composition | | WETTED PERIMETER (m) | HYDRAULIC MEAN DEPTH (m) | MEAN VELOCITY (m/s) | SURFACE WATER SLOPE | DISCHARGE ($m^3/s$) | Bed Material Composition | |
| | | | | | | | | | MAX SIZE (mm) | MEAN SIZE (mm) | | | | | | MAX SIZE (mm) | MEAN SIZE (mm) |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** | **16** | **17** | **18** |
| MONSOON 2015 | | | | | | **DATE OF COLLECTION** | | | | | | **13/10/2015** | | | | | |
| 1 | 60 | 37.340 | 37.340 | - | - | - | - | - | 10.0 | 0.96 | | | | | | | |
| 2 | 120 | 38.260 | 38.260 | - | - | - | - | - | 10.0 | 1.58 | | | | | | | |
| 3 | 180 | 37.980 | 37.980 | - | - | - | - | - | 15.0 | 0.60 | - | - | - | - | -* | 15.0 | 1.05 |
| POST MONSOON 2015 | | | | | | **DATE OF COLLECTION** | | | | | | **03/03/2016** | | | | | |
| 1 | 60 | 37.090 | 37.090 | - | - | - | - | - | 13.0 | 1.30 | | | | | | | |
| 2 | 120 | 38.250 | 38.250 | - | - | - | - | - | 11.0 | 0.85 | | | | | | | |
| 3 | 180 | 37.855 | 37.855 | - | - | - | - | - | 6.0 | 0.49 | - | - | - | - | -* | 13.0 | 0.88 |
| PRE MONSOON 2016 | | | | | | **DATE OF COLLECTION** | | | | | | **30/05/2016** | | | | | |
| 1 | 60 | 37.970 | 37.970 | - | - | - | - | - | 6.0 | 1.01 | | | | | | | |
| 2 | 120 | 38.250 | 38.250 | - | - | - | - | - | 6.0 | 0.61 | | | | | | | |
| 3 | 180 | 38.020 | 38.020 | - | - | - | - | - | 18.0 | 1.01 | - | - | - | - | -* | 18.0 | 0.88 |

* River Bed Dry.

## Annual Sediment Load for period : 2013-2016

**Station Name : PARAMAKUDI ( CV000F3)** **Division : SR Division, Coimbatore**

**Local River : Vaigai** **Sub-Division : Vaigai SD Madurai**

| Year | Monsoon (M.T.) | Non-Monsoon (M.T.) | Annual Load (M.T.) | Annual Run Off (MCM) |
|---|---|---|---|---|
| **2013-2014** | 0 | 0 | 0 | 0 |
| **2014-2015** | 547 | 79 | 626 | 15 |
| **2015-2016** | 0 | 1075 | 1075 | 71 |

## Daily Observed Sediment Datasheet for period : 2015-2016

**Station Name : PARAMAKUDI ( CV000F3)** **Division : SR Division, Coimbatore**

**Local River : Vaigai** **Sub-Division : Vaigai SD Madurai**

| Day | Jun | | | | | | Jul | | | | | | Aug | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total 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) : 1075**

## Daily Observed Sediment Datasheet for period : 2015-2016

**Station Name : PARAMAKUDI ( CV000F3)** **Division : SR Division, Coimbatore**

**Local River : Vaigai** **Sub-Division : Vaigai SD Madurai**

| Day | Sep | | | | | | Oct | | | | | | Nov | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total 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 | | | | | | |
| 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) : 1075**

## Daily Observed Sediment Datasheet for period : 2015-2016

**Station Name : PARAMAKUDI ( CV000F3)** **Division : SR Division, Coimbatore**

**Local River : Vaigai** **Sub-Division : Vaigai SD Madurai**

| Day | Dec | | | | | | Jan | | | | | | Feb | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total 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 | 36.21 | 0.000 | 0.000 | 0.031 | 0.031 | 96 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 4 | 38.52 | 0.000 | 0.000 | 0.017 | 0.017 | 55 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 5 | 31.00 | 0.000 | 0.000 | 0.004 | 0.004 | 11 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 6 | 35.88 | 0.000 | 0.000 | 0.005 | 0.005 | 16 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 7 | 41.55 | 0.000 | 0.000 | 0.014 | 0.014 | 50 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 8 | 38.08 | 0.000 | 0.000 | 0.004 | 0.004 | 14 | 26.89 | 0.000 | 0.000 | 0.077 | 0.077 | 180 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 9 | 40.07 | 0.000 | 0.000 | 0.005 | 0.005 | 17 | 24.06 | 0.000 | 0.000 | 0.010 | 0.010 | 21 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 10 | 34.01 | 0.000 | 0.000 | 0.015 | 0.015 | 43 | 22.83 | 0.000 | 0.000 | 0.009 | 0.009 | 18 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 11 | 38.96 | 0.000 | 0.000 | 0.006 | 0.006 | 21 | 21.64 | 0.000 | 0.000 | 0.012 | 0.012 | 22 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 12 | 30.07 | 0.000 | 0.000 | 0.006 | 0.006 | 15 | 16.85 | 0.000 | 0.000 | 0.013 | 0.013 | 19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 13 | 33.01 | 0.000 | 0.000 | 0.008 | 0.008 | 23 | 18.20 | 0.000 | 0.000 | 0.008 | 0.008 | 13 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 14 | 35.84 | 0.000 | 0.000 | 0.009 | 0.009 | 28 | 16.08 | 0.000 | 0.000 | 0.007 | 0.007 | 10 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 15 | 23.79 | 0.000 | 0.000 | 0.005 | 0.005 | 11 | 12.59 | 0.000 | 0.000 | 0.005 | 0.005 | 5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 16 | 15.23 | 0.000 | 0.000 | 0.021 | 0.021 | 27 | 9.202 | 0.000 | 0.000 | 0.019 | 0.019 | 15 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 17 | 9.091 | 0.000 | 0.000 | 0.036 | 0.036 | 28 | 7.167 | 0.000 | 0.000 | 0.011 | 0.011 | 7 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 18 | 9.889 | 0.000 | 0.000 | 0.010 | 0.010 | 9 | 10.54 | 0.000 | 0.000 | 0.014 | 0.014 | 13 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 19 | 2.233 | 0.000 | 0.000 | 0.001 | 0.001 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 20 | 23.92 | 0.000 | 0.000 | 0.027 | 0.027 | 56 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 21 | 21.66 | 0.000 | 0.000 | 0.024 | 0.024 | 44 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 22 | 16.93 | 0.000 | 0.000 | 0.040 | 0.040 | 58 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 23 | 15.25 | 0.000 | 0.000 | 0.020 | 0.020 | 26 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 24 | 14.70 | 0.000 | 0.000 | 0.019 | 0.019 | 24 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 25 | 13.72 | 0.000 | 0.000 | 0.018 | 0.018 | 21 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 26 | 14.24 | 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 | 12.78 | 0.000 | 0.000 | 0.017 | 0.017 | 19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 28 | 11.49 | 0.000 | 0.000 | 0.024 | 0.024 | 23 | 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 | | | | | | |
| 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 | 29.53 | 0.000 | 0.000 | 0.009 | 0.009 | 30 | 7.378 | 0.000 | 0.000 | 0.010 | 0.010 | 22 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| Ten Daily II | 22.20 | 0.000 | 0.000 | 0.013 | 0.013 | 22 | 11.23 | 0.000 | 0.000 | 0.009 | 0.009 | 10 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| Ten Daily III | 10.98 | 0.000 | 0.000 | 0.016 | 0.016 | 21 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| Monthly | | | | | | | | | | | | | | | | | | |
| Total | | | | | | 752 | | | | | | 323 | | | | | | 0 |

**Annual Sediment Load (Metric Tonnes) : 1075**

## Daily Observed Sediment Datasheet for period : 2015-2016

**Station Name : PARAMAKUDI ( CV000F3)** **Division : SR Division, Coimbatore**

**Local River : Vaigai** **Sub-Division : Vaigai SD Madurai**

| Day | Mar | | | | | | Apr | | | | | | May | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total 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) : 1075**

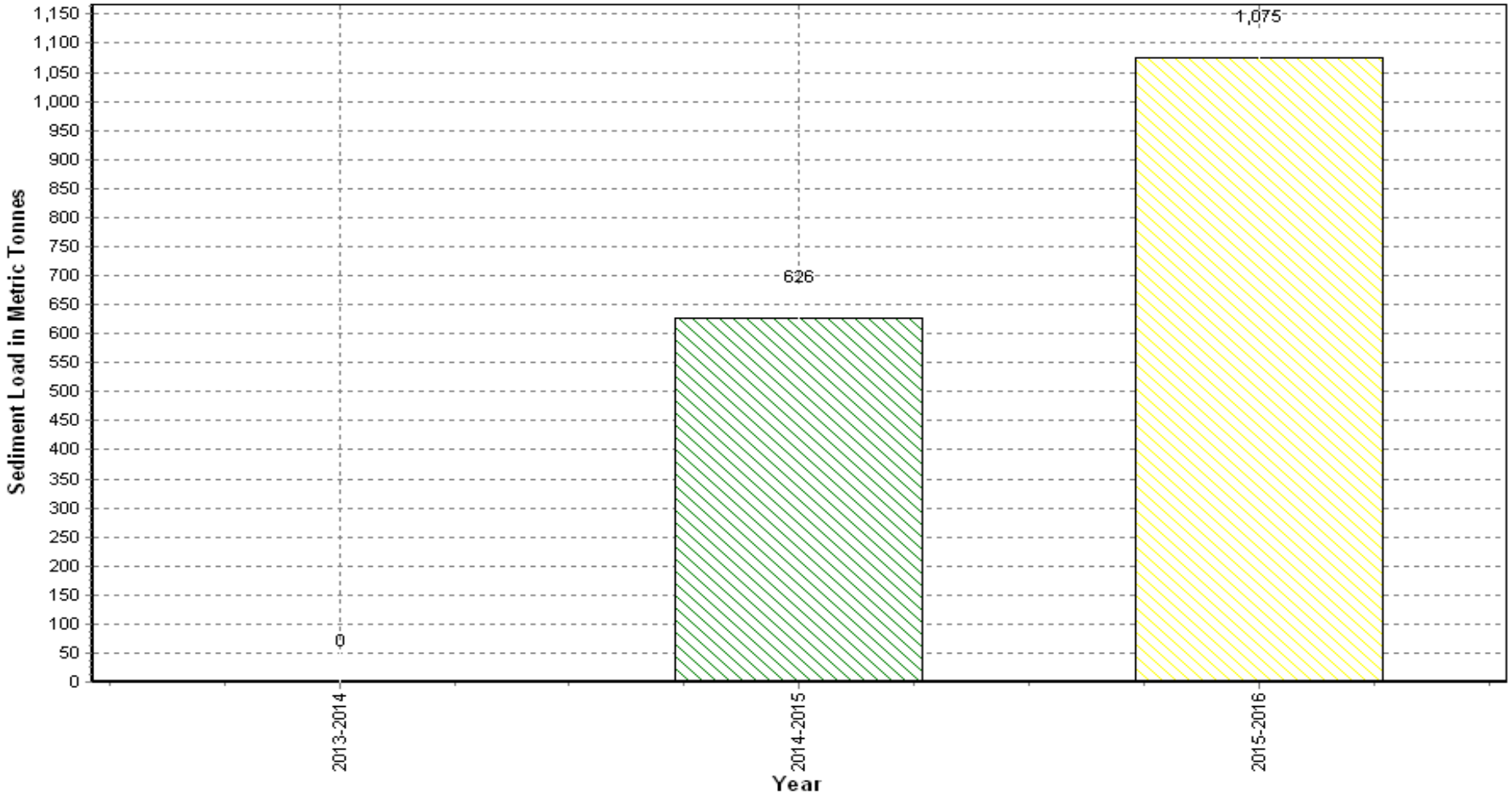
**Annual Sediment Load for the period: 2013-2016**

**Station Name : PARAMAKUDI ( CV000F3)**

**Division : SR Division, Coimbatore**

**Local River : Vaigai**

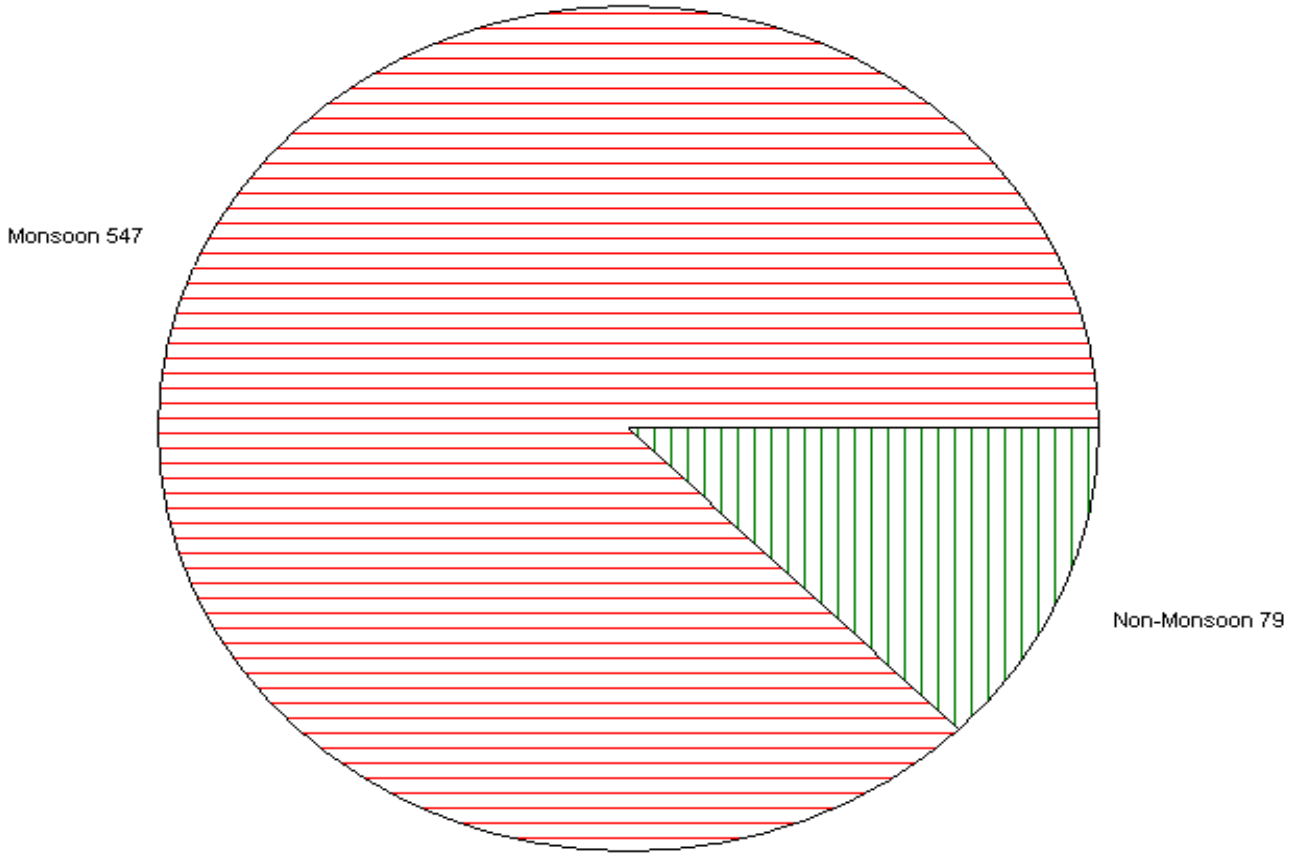
**Sub-Division : Vaigai SD Madurai**



**Seasonal Sediment Load for the period : 2013-2015**

**Station Name : PARAMAKUDI ( CV000F3)**
**Local River : Vaigai**

**Division : SR Division, Coimbatore**
**Sub-Division : Vaigai SD Madurai**



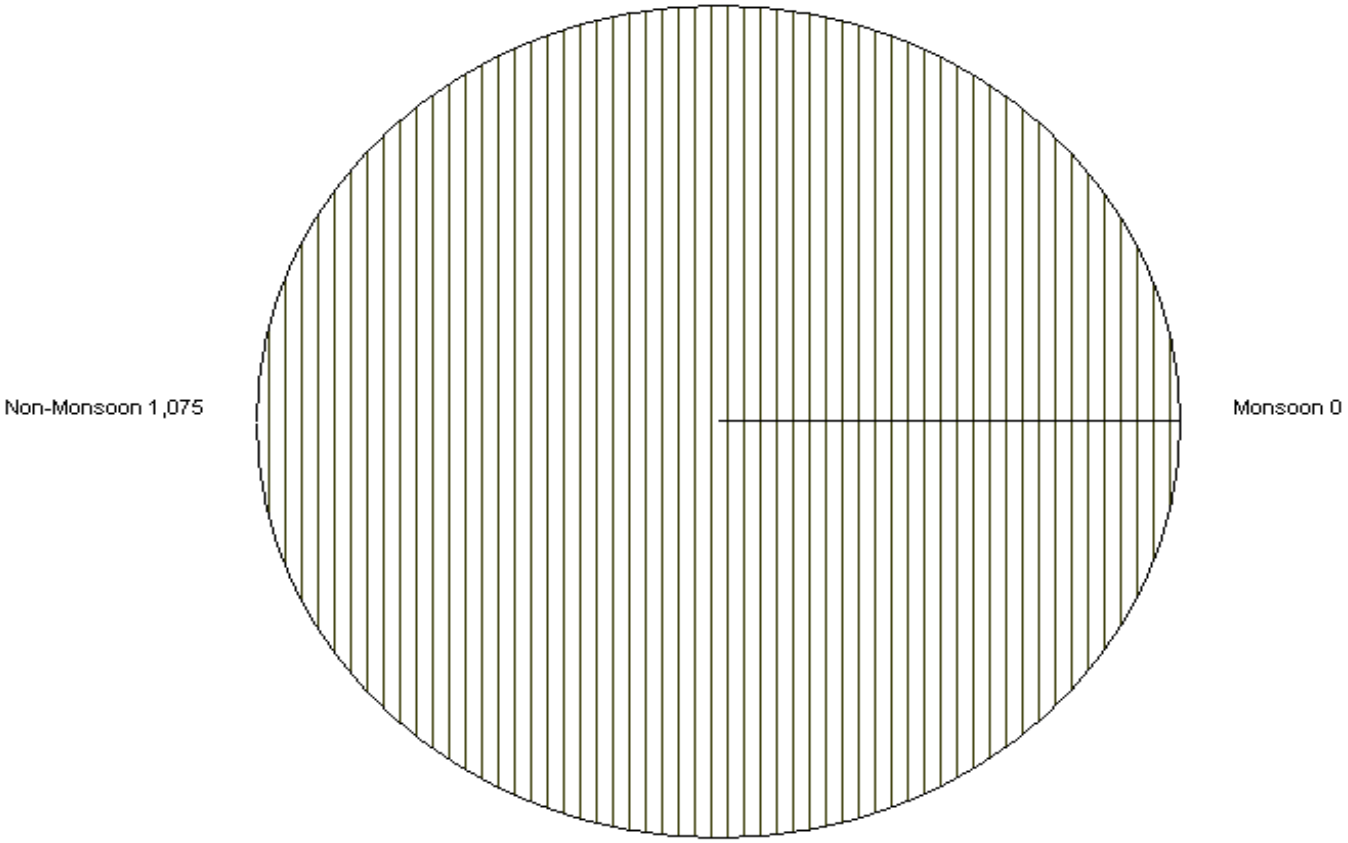
**Seasonal Sediment Load for the Year: 2015-2016**

**Station Name : PARAMAKUDI ( CV000F3)**

**Local River : Vaigai**

**Division : SR Division, Coimbatore**

**Sub-Division : Vaigai SD Madurai**



## Annual Sediment Load for period : 1979-2016

**Station Name : THENI ( CVA00D4)** **Division : SR Division, Coimbatore**

**Local River : Suruliyar** **Sub-Division : Vaigai SD Madurai**

| Year | Monsoon (M.T.) | Non-Monsoon (M.T.) | Annual Load (M.T.) | Annual Run Off (MCM) |
|---|---|---|---|---|
| **1979-1980** | 401567 | 49560 | 451127 | 914 |
| **1980-1981** | 211966 | 28812 | 240778 | 673 |
| **1981-1982** | 160005 | 19126 | 179131 | 871 |
| **1982-1983** | 87467 | 18422 | 105889 | 356 |
| **1983-1984** | 86714 | 201836 | 288550 | 718 |
| **1984-1985** | 116465 | 37975 | 154440 | 773 |
| **1985-1986** | 116269 | 13456 | 129725 | 605 |
| **1986-1987** | 95364 | 9416 | 104781 | 382 |
| **1987-1988** | 118029 | 49946 | 167975 | 489 |
| **1988-1989** | 43050 | 3666 | 46716 | 313 |
| **1989-1990** | 93480 | 21062 | 114542 | 709 |
| **1990-1991** | 85698 | 11620 | 97318 | 632 |
| **1991-1992** | 37347 | 2799 | 40146 | 515 |
| **1992-1993** | 167049 | 8515 | 175565 | 906 |
| **1993-1994** | 96673 | 28277 | 124950 | 668 |
| **1994-1995** | 125455 | 16133 | 141588 | 819 |
| **1995-1996** | 56784 | 2140 | 58924 | 589 |
| **1996-1997** | 53420 | 10896 | 64317 | 583 |
| **1997-1998** | 100278 | 38847 | 139125 | 767 |
| **1998-1999** | 69046 | 152883 | 221928 | 887 |
| **1999-2000** | 45188 | 7242 | 52430 | 482 |
| **2000-2001** | 42493 | 9433 | 51925 | 591 |
| **2001-2002** | 56066 | 7254 | 63320 | 626 |
| **2002-2003** | 18197 | 3055 | 21252 | 220 |
| **2003-2004** | 15198 | 1877 | 17074 | 185 |
| **2004-2005** | 38344 | 7271 | 45615 | 577 |
| **2005-2006** | 61985 | 51587 | 113572 | 740 |
| **2006-2007** | 50254 | 9095 | 59349 | 623 |
| **2007-2008** | 155936 | 33225 | 189161 | 939 |
| **2008-2009** | 36411 | 2770 | 39181 | 509 |
| **2009-2010** | 28029 | 9561 | 37590 | 392 |
| **2010-2011** | 33394 | 12786 | 46180 | 576 |
| **2011-2012** | 39441 | 9390 | 48832 | 731 |
| **2012-2013** | 12574 | 714 | 13288 | 158 |
| **2013-2014** | 21093 | 4633 | 25726 | 495 |
| **2014-2015** | 42278 | 16441 | 58719 | 652 |
| **2015-2016** | 44140 | 28199 | 72339 | 686 |

## Daily Observed Sediment Datasheet for period : 2015-2016

**Station Name : THENI ( CVA00D4)** **Division : SR Division, Coimbatore**

**Local River : Suruliyar** **Sub-Division : Vaigai SD Madurai**

| Day | Jun | | | | | | Jul | | | | | | Aug | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day |
| 1 | 4.052 | 0.000 | 0.000 | 0.020 | 0.020 | 7 | 30.79 | 0.003 | 0.004 | 0.099 | 0.106 | 281 | 25.96 | 0.002 | 0.002 | 0.081 | 0.084 | 189 |
| 2 | 1.818 | 0.000 | 0.000 | 0.024 | 0.024 | 4 | 15.48 | 0.003 | 0.003 | 0.076 | 0.082 | 110 | 24.63 | 0.001 | 0.003 | 0.081 | 0.085 | 181 |
| 3 | 1.701 | 0.000 | 0.000 | 0.066 | 0.066 | 10 | 12.37 | 0.002 | 0.003 | 0.080 | 0.085 | 91 | 23.95 | 0.001 | 0.002 | 0.065 | 0.068 | 140 |
| 4 | 1.165 | 0.000 | 0.000 | 0.024 | 0.024 | 2 | 11.59 | 0.002 | 0.003 | 0.078 | 0.083 | 83 | 23.33 | 0.001 | 0.005 | 0.097 | 0.103 | 207 |
| 5 | 1.006 | 0.000 | 0.000 | 0.017 | 0.017 | 1 | 7.562 | 0.001 | 0.001 | 0.044 | 0.046 | 30 | 24.73 | 0.001 | 0.003 | 0.081 | 0.085 | 181 |
| 6 | 1.328 | 0.000 | 0.000 | 0.025 | 0.025 | 3 | 11.84 | 0.002 | 0.003 | 0.051 | 0.056 | 57 | 25.63 | 0.005 | 0.006 | 0.084 | 0.095 | 210 |
| 7 | 1.351 | 0.000 | 0.000 | 0.025 | 0.025 | 3 | 11.07 | 0.002 | 0.003 | 0.086 | 0.090 | 86 | 22.80 | 0.001 | 0.003 | 0.083 | 0.087 | 172 |
| 8 | 1.163 | 0.000 | 0.000 | 0.014 | 0.014 | 1 | 15.62 | 0.002 | 0.003 | 0.077 | 0.082 | 111 | 23.56 | 0.002 | 0.003 | 0.074 | 0.078 | 159 |
| 9 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 17.57 | 0.002 | 0.004 | 0.097 | 0.102 | 155 | 19.77 | 0.001 | 0.002 | 0.080 | 0.083 | 142 |
| 10 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 25.88 | 0.002 | 0.004 | 0.132 | 0.137 | 307 | 18.96 | 0.001 | 0.002 | 0.058 | 0.061 | 100 |
| 11 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 25.05 | 0.002 | 0.003 | 0.115 | 0.120 | 259 | 21.16 | 0.003 | 0.003 | 0.086 | 0.092 | 168 |
| 12 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 25.79 | 0.002 | 0.002 | 0.132 | 0.136 | 303 | 20.16 | 0.003 | 0.011 | 0.101 | 0.115 | 201 |
| 13 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 23.52 | 0.001 | 0.002 | 0.154 | 0.157 | 320 | 25.92 | 0.001 | 0.002 | 0.052 | 0.056 | 124 |
| 14 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 25.30 | 0.002 | 0.003 | 0.060 | 0.065 | 143 | 15.84 | 0.002 | 0.003 | 0.041 | 0.045 | 62 |
| 15 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 21.46 | 0.002 | 0.011 | 0.060 | 0.073 | 135 | 14.16 | 0.001 | 0.002 | 0.047 | 0.050 | 61 |
| 16 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 28.53 | 0.001 | 0.004 | 0.069 | 0.074 | 182 | 12.51 | 0.001 | 0.002 | 0.042 | 0.045 | 49 |
| 17 | 1.301 | 0.000 | 0.000 | 0.054 | 0.054 | 6 | 29.81 | 0.002 | 0.003 | 0.089 | 0.094 | 241 | 21.78 | 0.002 | 0.003 | 0.094 | 0.099 | 187 |
| 18 | 1.369 | 0.000 | 0.000 | 0.036 | 0.036 | 4 | 33.32 | 0.002 | 0.004 | 0.084 | 0.090 | 259 | 33.05 | 0.003 | 0.005 | 0.100 | 0.108 | 307 |
| 19 | 1.291 | 0.000 | 0.000 | 0.033 | 0.033 | 4 | 32.65 | 0.002 | 0.004 | 0.082 | 0.088 | 248 | 24.76 | 0.002 | 0.003 | 0.072 | 0.076 | 162 |
| 20 | 1.677 | 0.000 | 0.000 | 0.048 | 0.048 | 7 | 31.58 | 0.002 | 0.004 | 0.074 | 0.079 | 216 | 23.02 | 0.001 | 0.002 | 0.045 | 0.049 | 97 |
| 21 | 1.351 | 0.000 | 0.000 | 0.025 | 0.025 | 3 | 31.04 | 0.002 | 0.003 | 0.067 | 0.073 | 194 | 15.75 | 0.001 | 0.002 | 0.041 | 0.045 | 61 |
| 22 | 1.471 | 0.000 | 0.000 | 0.042 | 0.042 | 5 | 36.72 | 0.003 | 0.006 | 0.082 | 0.090 | 287 | 15.05 | 0.001 | 0.002 | 0.060 | 0.063 | 82 |
| 23 | 6.526 | 0.001 | 0.001 | 0.038 | 0.039 | 22 | 34.08 | 0.002 | 0.004 | 0.078 | 0.084 | 249 | 14.16 | 0.001 | 0.002 | 0.056 | 0.059 | 72 |
| 24 | 4.215 | 0.000 | 0.000 | 0.044 | 0.044 | 16 | 31.52 | 0.002 | 0.004 | 0.091 | 0.097 | 265 | 15.69 | 0.001 | 0.002 | 0.053 | 0.056 | 76 |
| 25 | 4.448 | 0.001 | 0.001 | 0.077 | 0.078 | 30 | 33.27 | 0.002 | 0.004 | 0.084 | 0.090 | 259 | 14.77 | 0.001 | 0.002 | 0.049 | 0.051 | 65 |
| 26 | 9.248 | 0.001 | 0.001 | 0.047 | 0.049 | 39 | 33.99 | 0.002 | 0.004 | 0.086 | 0.092 | 270 | 12.24 | 0.001 | 0.002 | 0.028 | 0.030 | 32 |
| 27 | 16.00 | 0.005 | 0.011 | 0.293 | 0.309 | 427 | 29.80 | 0.002 | 0.005 | 0.082 | 0.089 | 229 | 12.47 | 0.001 | 0.002 | 0.036 | 0.039 | 42 |
| 28 | 32.65 | 0.003 | 0.004 | 0.127 | 0.134 | 378 | 30.67 | 0.001 | 0.001 | 0.054 | 0.056 | 147 | 13.12 | 0.001 | 0.002 | 0.053 | 0.056 | 63 |
| 29 | 31.79 | 0.004 | 0.007 | 0.128 | 0.139 | 382 | 31.80 | 0.001 | 0.002 | 0.069 | 0.073 | 200 | 12.70 | 0.001 | 0.003 | 0.038 | 0.041 | 45 |
| 30 | 32.98 | 0.003 | 0.004 | 0.128 | 0.135 | 383 | 31.90 | 0.001 | 0.002 | 0.088 | 0.091 | 250 | 9.522 | 0.001 | 0.003 | 0.056 | 0.060 | 49 |
| 31 | | | | | | | 27.57 | 0.002 | 0.002 | 0.047 | 0.050 | 120 | 10.15 | 0.001 | 0.003 | 0.060 | 0.064 | 56 |
| Ten Daily Mean | | | | | | | | | | | | | | | | | | |
| Ten Daily I | 1.358 | 0.000 | 0.000 | 0.021 | 0.021 | 3 | 15.98 | 0.002 | 0.003 | 0.082 | 0.087 | 131 | 23.33 | 0.002 | 0.003 | 0.078 | 0.083 | 168 |
| Ten Daily II | 0.564 | 0.000 | 0.000 | 0.017 | 0.017 | 2 | 27.70 | 0.002 | 0.004 | 0.092 | 0.098 | 231 | 21.24 | 0.002 | 0.004 | 0.068 | 0.073 | 142 |
| Ten Daily III | 14.07 | 0.002 | 0.003 | 0.095 | 0.099 | 169 | 32.03 | 0.002 | 0.003 | 0.075 | 0.080 | 225 | 13.24 | 0.001 | 0.002 | 0.048 | 0.051 | 59 |
| Monthly | | | | | | | | | | | | | | | | | | |
| Total | | | | | | 1738 | | | | | | 6088 | | | | | | 3744 |

**Annual Sediment Load (Metric Tonnes) : 72339**

## Daily Observed Sediment Datasheet for period : 2015-2016

**Station Name : THENI ( CVA00D4)** **Division : SR Division, Coimbatore**

**Local River : Suruliyar** **Sub-Division : Vaigai SD Madurai**

| Day | Sep | | | | | | Oct | | | | | | Nov | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day |
| 1 | 10.40 | 0.001 | 0.002 | 0.051 | 0.054 | 48 | 59.57 | 0.003 | 0.006 | 0.065 | 0.074 | 380 | 29.43 | 0.002 | 0.004 | 0.123 | 0.129 | 328 |
| 2 | 12.26 | 0.001 | 0.002 | 0.047 | 0.049 | 52 | 26.38 | 0.003 | 0.005 | 0.065 | 0.073 | 166 | 20.46 | 0.003 | 0.003 | 0.089 | 0.094 | 167 |
| 3 | 14.72 | 0.001 | 0.002 | 0.036 | 0.039 | 49 | 20.79 | 0.003 | 0.004 | 0.065 | 0.072 | 129 | 19.74 | 0.003 | 0.003 | 0.074 | 0.080 | 136 |
| 4 | 16.30 | 0.001 | 0.002 | 0.035 | 0.038 | 53 | 21.86 | 0.003 | 0.004 | 0.065 | 0.072 | 136 | 16.04 | 0.002 | 0.004 | 0.062 | 0.068 | 95 |
| 5 | 25.50 | 0.001 | 0.002 | 0.045 | 0.049 | 107 | 15.49 | 0.001 | 0.002 | 0.061 | 0.064 | 86 | 41.36 | 0.007 | 0.012 | 0.109 | 0.129 | 459 |
| 6 | 27.58 | 0.001 | 0.002 | 0.049 | 0.052 | 124 | 15.23 | 0.002 | 0.004 | 0.056 | 0.062 | 81 | 32.24 | 0.002 | 0.002 | 0.141 | 0.145 | 403 |
| 7 | 20.87 | 0.002 | 0.003 | 0.031 | 0.036 | 65 | 16.09 | 0.002 | 0.003 | 0.051 | 0.055 | 77 | 21.08 | 0.001 | 0.002 | 0.088 | 0.090 | 164 |
| 8 | 15.79 | 0.004 | 0.008 | 0.028 | 0.041 | 56 | 14.06 | 0.001 | 0.003 | 0.037 | 0.041 | 49 | 22.41 | 0.001 | 0.002 | 0.094 | 0.097 | 188 |
| 9 | 16.31 | 0.002 | 0.003 | 0.017 | 0.022 | 31 | 11.04 | 0.001 | 0.002 | 0.030 | 0.034 | 32 | 28.16 | 0.002 | 0.004 | 0.118 | 0.124 | 301 |
| 10 | 14.41 | 0.001 | 0.002 | 0.054 | 0.057 | 70 | 12.87 | 0.001 | 0.002 | 0.063 | 0.065 | 73 | 15.92 | 0.001 | 0.002 | 0.075 | 0.078 | 107 |
| 11 | 13.96 | 0.002 | 0.003 | 0.049 | 0.054 | 65 | 9.872 | 0.001 | 0.002 | 0.048 | 0.051 | 43 | 15.68 | 0.001 | 0.002 | 0.074 | 0.076 | 104 |
| 12 | 13.34 | 0.002 | 0.003 | 0.033 | 0.038 | 43 | 15.97 | 0.003 | 0.004 | 0.056 | 0.063 | 87 | 17.33 | 0.002 | 0.003 | 0.054 | 0.060 | 89 |
| 13 | 11.34 | 0.001 | 0.002 | 0.039 | 0.042 | 41 | 16.17 | 0.001 | 0.003 | 0.041 | 0.045 | 63 | 18.51 | 0.002 | 0.003 | 0.097 | 0.102 | 163 |
| 14 | 12.44 | 0.001 | 0.003 | 0.039 | 0.042 | 46 | 14.93 | 0.001 | 0.003 | 0.049 | 0.054 | 70 | 22.17 | 0.001 | 0.001 | 0.134 | 0.136 | 261 |
| 15 | 12.24 | 0.001 | 0.002 | 0.039 | 0.041 | 44 | 14.73 | 0.002 | 0.004 | 0.053 | 0.058 | 74 | 18.77 | 0.002 | 0.003 | 0.118 | 0.123 | 199 |
| 16 | 12.22 | 0.001 | 0.002 | 0.042 | 0.045 | 48 | 16.11 | 0.001 | 0.002 | 0.052 | 0.055 | 77 | 18.09 | 0.002 | 0.003 | 0.114 | 0.118 | 185 |
| 17 | 10.59 | 0.001 | 0.002 | 0.036 | 0.039 | 36 | 15.34 | 0.001 | 0.002 | 0.054 | 0.057 | 75 | 33.68 | 0.003 | 0.004 | 0.221 | 0.227 | 661 |
| 18 | 14.43 | 0.001 | 0.002 | 0.042 | 0.045 | 56 | 15.03 | 0.001 | 0.002 | 0.053 | 0.056 | 73 | 40.92 | 0.003 | 0.004 | 0.256 | 0.262 | 926 |
| 19 | 16.04 | 0.001 | 0.002 | 0.038 | 0.042 | 58 | 15.68 | 0.001 | 0.002 | 0.036 | 0.039 | 53 | 162.1 | 0.052 | 0.128 | 0.746 | 0.926 | 12963 |
| 20 | 12.11 | 0.001 | 0.002 | 0.042 | 0.045 | 47 | 16.28 | 0.002 | 0.002 | 0.073 | 0.077 | 108 | 102.7 | 0.008 | 0.018 | 0.355 | 0.381 | 3375 |
| 21 | 15.32 | 0.001 | 0.002 | 0.028 | 0.032 | 42 | 15.03 | 0.001 | 0.002 | 0.053 | 0.056 | 73 | 72.10 | 0.006 | 0.008 | 0.110 | 0.124 | 774 |
| 22 | 11.66 | 0.001 | 0.002 | 0.028 | 0.030 | 30 | 17.32 | 0.002 | 0.002 | 0.061 | 0.065 | 97 | 54.87 | 0.003 | 0.008 | 0.063 | 0.074 | 351 |
| 23 | 12.51 | 0.001 | 0.002 | 0.032 | 0.034 | 37 | 13.95 | 0.001 | 0.002 | 0.033 | 0.037 | 44 | 62.47 | 0.003 | 0.009 | 0.072 | 0.084 | 451 |
| 24 | 14.59 | 0.001 | 0.002 | 0.042 | 0.045 | 57 | 14.59 | 0.001 | 0.002 | 0.051 | 0.054 | 68 | 62.50 | 0.002 | 0.003 | 0.179 | 0.185 | 998 |
| 25 | 72.42 | 0.011 | 0.016 | 0.131 | 0.158 | 991 | 15.47 | 0.001 | 0.002 | 0.054 | 0.057 | 76 | 54.87 | 0.003 | 0.008 | 0.063 | 0.074 | 351 |
| 26 | 36.79 | 0.003 | 0.005 | 0.049 | 0.057 | 180 | 10.94 | 0.002 | 0.002 | 0.041 | 0.045 | 43 | 37.77 | 0.009 | 0.003 | 0.060 | 0.072 | 233 |
| 27 | 30.70 | 0.002 | 0.004 | 0.049 | 0.055 | 146 | 15.29 | 0.001 | 0.002 | 0.038 | 0.041 | 54 | 25.31 | 0.002 | 0.001 | 0.107 | 0.109 | 239 |
| 28 | 28.74 | 0.002 | 0.004 | 0.049 | 0.055 | 138 | 15.57 | 0.001 | 0.002 | 0.068 | 0.071 | 95 | 28.55 | 0.001 | 0.001 | 0.120 | 0.122 | 301 |
| 29 | 29.54 | 0.004 | 0.006 | 0.099 | 0.109 | 278 | 19.98 | 0.002 | 0.005 | 0.066 | 0.072 | 125 | 24.63 | 0.002 | 0.001 | 0.104 | 0.107 | 228 |
| 30 | 59.06 | 0.004 | 0.009 | 0.135 | 0.148 | 756 | 14.68 | 0.001 | 0.001 | 0.080 | 0.082 | 104 | 49.08 | 0.004 | 0.004 | 0.185 | 0.193 | 819 |
| 31 | | | | | | | 13.44 | 0.001 | 0.001 | 0.037 | 0.039 | 45 | | | | | | |
| **Ten Daily Mean** | | | | | | | | | | | | | | | | | | |
| Ten Daily I | 17.41 | 0.001 | 0.003 | 0.039 | 0.044 | 66 | 21.34 | 0.002 | 0.003 | 0.056 | 0.061 | 121 | 24.68 | 0.002 | 0.004 | 0.097 | 0.103 | 235 |
| Ten Daily II | 12.87 | 0.001 | 0.002 | 0.040 | 0.043 | 48 | 15.01 | 0.001 | 0.003 | 0.051 | 0.056 | 72 | 44.99 | 0.008 | 0.017 | 0.217 | 0.241 | 1893 |
| Ten Daily III | 31.13 | 0.003 | 0.005 | 0.064 | 0.072 | 265 | 15.11 | 0.001 | 0.002 | 0.053 | 0.056 | 75 | 47.21 | 0.004 | 0.004 | 0.106 | 0.114 | 475 |
| **Monthly** | | | | | | | | | | | | | | | | | | |
| Total | | | | | | 3792 | | | | | | 2757 | | | | | | 26020 |

**Annual Sediment Load (Metric Tonnes) : 72339**

## Daily Observed Sediment Datasheet for period : 2015-2016

**Station Name : THENI ( CVA00D4)** **Division : SR Division, Coimbatore**

**Local River : Suruliyar** **Sub-Division : Vaigai SD Madurai**

| Day | Dec | | | | | | Jan | | | | | | Feb | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day |
| 1 | 40.61 | 0.003 | 0.004 | 0.105 | 0.113 | 395 | 39.58 | 0.003 | 0.003 | 0.037 | 0.043 | 147 | 21.16 | 0.002 | 0.002 | 0.040 | 0.044 | 80 |
| 2 | 37.58 | 0.001 | 0.001 | 0.212 | 0.214 | 694 | 36.19 | 0.003 | 0.003 | 0.036 | 0.042 | 130 | 22.09 | 0.001 | 0.002 | 0.063 | 0.066 | 126 |
| 3 | 69.69 | 0.094 | 0.020 | 0.224 | 0.337 | 2029 | 34.32 | 0.003 | 0.003 | 0.034 | 0.040 | 119 | 21.35 | 0.002 | 0.002 | 0.045 | 0.048 | 89 |
| 4 | 59.47 | 0.003 | 0.003 | 0.161 | 0.168 | 861 | 36.28 | 0.003 | 0.003 | 0.071 | 0.076 | 240 | 18.80 | 0.002 | 0.002 | 0.036 | 0.040 | 65 |
| 5 | 41.25 | 0.002 | 0.002 | 0.119 | 0.124 | 440 | 40.20 | 0.002 | 0.003 | 0.048 | 0.053 | 185 | 18.53 | 0.003 | 0.003 | 0.063 | 0.068 | 109 |
| 6 | 47.29 | 0.002 | 0.002 | 0.136 | 0.140 | 572 | 36.14 | 0.003 | 0.006 | 0.040 | 0.048 | 151 | 25.67 | 0.002 | 0.002 | 0.042 | 0.045 | 100 |
| 7 | 69.35 | 0.003 | 0.002 | 0.260 | 0.265 | 1587 | 35.43 | 0.002 | 0.002 | 0.034 | 0.037 | 114 | 21.52 | 0.002 | 0.002 | 0.045 | 0.049 | 91 |
| 8 | 120.0 | 0.014 | 0.013 | 0.097 | 0.125 | 1292 | 36.81 | 0.002 | 0.002 | 0.034 | 0.037 | 118 | 18.85 | 0.001 | 0.002 | 0.030 | 0.033 | 53 |
| 9 | 105.9 | 0.003 | 0.003 | 0.112 | 0.118 | 1075 | 34.47 | 0.002 | 0.002 | 0.027 | 0.031 | 92 | 20.94 | 0.003 | 0.007 | 0.069 | 0.079 | 143 |
| 10 | 96.22 | 0.003 | 0.003 | 0.102 | 0.108 | 898 | 34.32 | 0.002 | 0.002 | 0.027 | 0.031 | 92 | 19.69 | 0.008 | 0.008 | 0.087 | 0.103 | 175 |
| 11 | 78.88 | 0.002 | 0.003 | 0.093 | 0.098 | 667 | 29.07 | 0.001 | 0.001 | 0.056 | 0.058 | 145 | 21.25 | 0.002 | 0.003 | 0.053 | 0.059 | 108 |
| 12 | 73.15 | 0.004 | 0.004 | 0.114 | 0.122 | 772 | 31.59 | 0.003 | 0.004 | 0.027 | 0.035 | 95 | 28.87 | 0.004 | 0.005 | 0.055 | 0.064 | 159 |
| 13 | 95.77 | 0.004 | 0.004 | 0.114 | 0.122 | 1009 | 30.08 | 0.001 | 0.002 | 0.020 | 0.024 | 62 | 20.88 | 0.001 | 0.003 | 0.043 | 0.047 | 85 |
| 14 | 91.64 | 0.005 | 0.005 | 0.106 | 0.116 | 915 | 29.60 | 0.001 | 0.002 | 0.019 | 0.023 | 58 | 18.60 | 0.001 | 0.002 | 0.030 | 0.033 | 53 |
| 15 | 83.25 | 0.005 | 0.006 | 0.081 | 0.092 | 664 | 28.69 | 0.001 | 0.002 | 0.018 | 0.021 | 52 | 18.21 | 0.009 | 0.011 | 0.085 | 0.105 | 165 |
| 16 | 86.58 | 0.003 | 0.003 | 0.066 | 0.071 | 532 | 27.75 | 0.002 | 0.002 | 0.029 | 0.033 | 79 | 17.78 | 0.005 | 0.010 | 0.090 | 0.105 | 161 |
| 17 | 72.98 | 0.003 | 0.003 | 0.065 | 0.071 | 445 | 31.12 | 0.002 | 0.002 | 0.033 | 0.037 | 99 | 17.14 | 0.013 | 0.014 | 0.055 | 0.082 | 122 |
| 18 | 69.50 | 0.004 | 0.005 | 0.073 | 0.082 | 490 | 28.49 | 0.002 | 0.004 | 0.035 | 0.041 | 101 | 16.78 | 0.006 | 0.006 | 0.030 | 0.042 | 61 |
| 19 | 64.96 | 0.002 | 0.003 | 0.069 | 0.075 | 418 | 28.64 | 0.001 | 0.002 | 0.055 | 0.058 | 144 | 15.81 | 0.005 | 0.007 | 0.045 | 0.056 | 76 |
| 20 | 79.25 | 0.005 | 0.006 | 0.083 | 0.094 | 644 | 30.26 | 0.002 | 0.002 | 0.049 | 0.052 | 136 | 20.85 | 0.001 | 0.002 | 0.079 | 0.082 | 148 |
| 21 | 69.93 | 0.002 | 0.006 | 0.061 | 0.070 | 421 | 32.32 | 0.002 | 0.002 | 0.089 | 0.093 | 259 | 19.55 | 0.001 | 0.002 | 0.075 | 0.078 | 132 |
| 22 | 70.80 | 0.000 | 0.001 | 0.063 | 0.064 | 392 | 36.23 | 0.003 | 0.005 | 0.046 | 0.053 | 166 | 16.36 | 0.001 | 0.001 | 0.024 | 0.026 | 37 |
| 23 | 65.04 | 0.003 | 0.005 | 0.058 | 0.065 | 368 | 32.21 | 0.002 | 0.004 | 0.044 | 0.050 | 139 | 18.49 | 0.001 | 0.002 | 0.073 | 0.076 | 122 |
| 24 | 59.98 | 0.003 | 0.003 | 0.078 | 0.084 | 435 | 29.28 | 0.002 | 0.004 | 0.040 | 0.046 | 116 | 17.41 | 0.001 | 0.001 | 0.026 | 0.029 | 43 |
| 25 | 53.79 | 0.003 | 0.003 | 0.070 | 0.076 | 353 | 27.15 | 0.002 | 0.003 | 0.040 | 0.045 | 106 | 19.62 | 0.001 | 0.002 | 0.039 | 0.042 | 71 |
| 26 | 42.81 | 0.004 | 0.009 | 0.056 | 0.069 | 254 | 29.89 | 0.002 | 0.004 | 0.041 | 0.047 | 121 | 16.30 | 0.001 | 0.002 | 0.028 | 0.031 | 44 |
| 27 | 51.30 | 0.002 | 0.002 | 0.047 | 0.051 | 226 | 27.85 | 0.002 | 0.002 | 0.064 | 0.067 | 162 | 12.62 | 0.001 | 0.002 | 0.029 | 0.032 | 35 |
| 28 | 52.73 | 0.002 | 0.002 | 0.048 | 0.051 | 232 | 29.87 | 0.001 | 0.001 | 0.047 | 0.049 | 125 | 9.519 | 0.001 | 0.002 | 0.022 | 0.025 | 21 |
| 29 | 55.31 | 0.003 | 0.003 | 0.072 | 0.078 | 373 | 28.45 | 0.001 | 0.002 | 0.057 | 0.059 | 145 | 8.306 | 0.001 | 0.001 | 0.070 | 0.072 | 52 |
| 30 | 48.50 | 0.003 | 0.004 | 0.076 | 0.084 | 350 | 25.73 | 0.002 | 0.002 | 0.040 | 0.044 | 98 | | | | | | |
| 31 | 47.77 | 0.003 | 0.003 | 0.060 | 0.066 | 273 | 23.08 | 0.002 | 0.002 | 0.036 | 0.040 | 80 | | | | | | |
| **Ten Daily Mean** | | | | | | | | | | | | | | | | | | |
| Ten Daily I | 68.73 | 0.013 | 0.005 | 0.153 | 0.171 | 984 | 36.37 | 0.002 | 0.003 | 0.039 | 0.044 | 139 | 20.86 | 0.002 | 0.003 | 0.052 | 0.057 | 103 |
| Ten Daily II | 79.60 | 0.004 | 0.004 | 0.086 | 0.094 | 655 | 29.53 | 0.002 | 0.002 | 0.034 | 0.038 | 97 | 19.62 | 0.005 | 0.006 | 0.057 | 0.067 | 114 |
| Ten Daily III | 56.18 | 0.002 | 0.004 | 0.063 | 0.069 | 334 | 29.28 | 0.002 | 0.003 | 0.049 | 0.054 | 138 | 15.35 | 0.001 | 0.002 | 0.043 | 0.046 | 62 |
| **Monthly** | | | | | | | | | | | | | | | | | | |
| Total | | | | | | 20074 | | | | | | 3878 | | | | | | 2725 |

**Annual Sediment Load (Metric Tonnes) : 72339**

## Daily Observed Sediment Datasheet for period : 2015-2016

**Station Name : THENI ( CVA00D4)** **Division : SR Division, Coimbatore**

**Local River : Suruliyar** **Sub-Division : Vaigai SD Madurai**

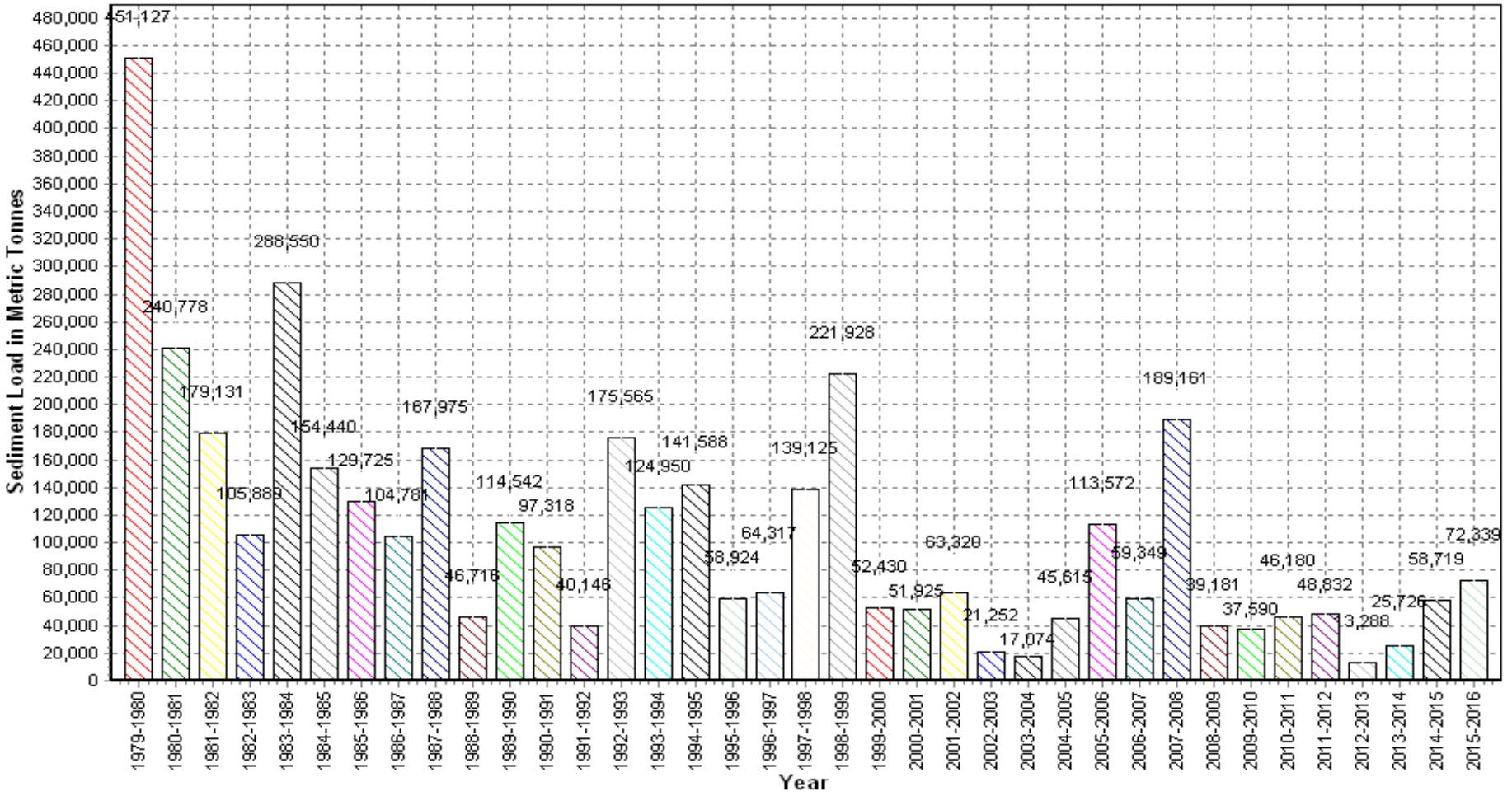
| Day | Mar | | | | | | Apr | | | | | | May | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day |
| 1 | 15.15 | 0.001 | 0.002 | 0.030 | 0.032 | 42 | 6.017 | 0.001 | 0.001 | 0.056 | 0.058 | 30 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 2 | 11.92 | 0.002 | 0.003 | 0.029 | 0.034 | 34 | 4.481 | 0.001 | 0.001 | 0.019 | 0.020 | 8 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 3 | 11.32 | 0.000 | 0.001 | 0.024 | 0.026 | 25 | 4.450 | 0.001 | 0.001 | 0.019 | 0.021 | 8 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 4 | 6.629 | 0.002 | 0.002 | 0.045 | 0.050 | 28 | 3.474 | 0.000 | 0.000 | 0.021 | 0.022 | 7 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 5 | 15.72 | 0.002 | 0.003 | 0.038 | 0.044 | 59 | 4.207 | 0.000 | 0.000 | 0.034 | 0.035 | 13 | 4.244 | 0.000 | 0.000 | 0.026 | 0.026 | 10 |
| 6 | 9.199 | 0.002 | 0.002 | 0.032 | 0.036 | 29 | 4.039 | 0.001 | 0.001 | 0.045 | 0.046 | 16 | 4.148 | 0.000 | 0.000 | 0.037 | 0.038 | 13 |
| 7 | 12.20 | 0.001 | 0.002 | 0.042 | 0.044 | 47 | 2.449 | 0.001 | 0.002 | 0.027 | 0.029 | 6 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 8 | 4.810 | 0.001 | 0.001 | 0.040 | 0.041 | 17 | 1.913 | 0.002 | 0.002 | 0.059 | 0.063 | 10 | 5.111 | 0.001 | 0.002 | 0.058 | 0.061 | 27 |
| 9 | 17.67 | 0.001 | 0.002 | 0.047 | 0.050 | 76 | 4.683 | 0.003 | 0.003 | 0.032 | 0.037 | 15 | 4.833 | 0.000 | 0.001 | 0.020 | 0.021 | 9 |
| 10 | 14.57 | 0.001 | 0.002 | 0.031 | 0.034 | 43 | 2.299 | 0.001 | 0.002 | 0.025 | 0.028 | 6 | 4.837 | 0.001 | 0.001 | 0.064 | 0.065 | 27 |
| 11 | 13.62 | 0.002 | 0.003 | 0.041 | 0.046 | 54 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 4.920 | 0.000 | 0.001 | 0.005 | 0.006 | 3 |
| 12 | 10.94 | 0.000 | 0.001 | 0.028 | 0.030 | 28 | 4.141 | 0.002 | 0.002 | 0.066 | 0.069 | 25 | 6.219 | 0.001 | 0.001 | 0.020 | 0.022 | 12 |
| 13 | 11.21 | 0.000 | 0.001 | 0.029 | 0.030 | 29 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 5.532 | 0.001 | 0.001 | 0.070 | 0.072 | 34 |
| 14 | 11.70 | 0.001 | 0.001 | 0.037 | 0.038 | 39 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 4.831 | 0.000 | 0.001 | 0.045 | 0.046 | 19 |
| 15 | 13.89 | 0.001 | 0.001 | 0.030 | 0.032 | 38 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 5.580 | 0.001 | 0.002 | 0.071 | 0.074 | 36 |
| 16 | 9.215 | 0.001 | 0.001 | 0.031 | 0.033 | 26 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 4.885 | 0.001 | 0.001 | 0.051 | 0.053 | 22 |
| 17 | 8.075 | 0.002 | 0.002 | 0.038 | 0.042 | 29 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 4.861 | 0.001 | 0.002 | 0.040 | 0.042 | 18 |
| 18 | 7.677 | 0.001 | 0.001 | 0.017 | 0.019 | 12 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 4.690 | 0.001 | 0.001 | 0.025 | 0.026 | 11 |
| 19 | 8.853 | 0.001 | 0.001 | 0.021 | 0.023 | 17 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 4.702 | 0.000 | 0.001 | 0.016 | 0.017 | 7 |
| 20 | 7.980 | 0.001 | 0.001 | 0.019 | 0.021 | 14 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 1.858 | 0.002 | 0.002 | 0.024 | 0.029 | 5 |
| 21 | 6.840 | 0.001 | 0.001 | 0.028 | 0.031 | 18 | 4.758 | 0.000 | 0.001 | 0.014 | 0.015 | 6 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 22 | 11.43 | 0.001 | 0.001 | 0.016 | 0.017 | 17 | 4.184 | 0.000 | 0.001 | 0.019 | 0.020 | 7 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 23 | 5.615 | 0.001 | 0.001 | 0.042 | 0.044 | 21 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| 24 | 17.23 | 0.001 | 0.001 | 0.055 | 0.057 | 85 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 4.151 | 0.001 | 0.001 | 0.018 | 0.020 | 7 |
| 25 | 4.240 | 0.001 | 0.001 | 0.032 | 0.034 | 12 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 3.772 | 0.000 | 0.000 | 0.022 | 0.023 | 7 |
| 26 | 14.18 | 0.003 | 0.004 | 0.041 | 0.048 | 58 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 3.602 | 0.001 | 0.001 | 0.026 | 0.027 | 9 |
| 27 | 2.930 | 0.001 | 0.001 | 0.022 | 0.024 | 6 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 3.583 | 0.001 | 0.001 | 0.027 | 0.028 | 9 |
| 28 | 0.983 | 0.001 | 0.001 | 0.031 | 0.032 | 3 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 4.162 | 0.000 | 0.001 | 0.030 | 0.031 | 11 |
| 29 | 11.41 | 0.001 | 0.002 | 0.072 | 0.075 | 74 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 3.646 | 0.000 | 0.000 | 0.030 | 0.030 | 9 |
| 30 | 6.283 | 0.001 | 0.001 | 0.065 | 0.066 | 36 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 3.375 | 0.000 | 0.000 | 0.028 | 0.029 | 8 |
| 31 | 4.701 | 0.001 | 0.001 | 0.081 | 0.083 | 34 | | | | | | | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| **Ten Daily Mean** | | | | | | | | | | | | | | | | | | |
| Ten Daily I | 11.92 | 0.001 | 0.002 | 0.036 | 0.039 | 40 | 3.801 | 0.001 | 0.001 | 0.034 | 0.036 | 12 | 2.317 | 0.000 | 0.000 | 0.020 | 0.021 | 9 |
| Ten Daily II | 10.32 | 0.001 | 0.001 | 0.029 | 0.031 | 29 | 0.414 | 0.000 | 0.000 | 0.007 | 0.007 | 2 | 4.808 | 0.001 | 0.001 | 0.037 | 0.039 | 17 |
| Ten Daily III | 7.803 | 0.001 | 0.001 | 0.044 | 0.046 | 33 | 0.894 | 0.000 | 0.000 | 0.003 | 0.003 | 1 | 2.390 | 0.000 | 0.000 | 0.023 | 0.023 | 8 |
| **Monthly** | | | | | | | | | | | | | | | | | | |
| Total | | | | | | 1053 | | | | | | 157 | | | | | | 312 |

**Annual Sediment Load (Metric Tonnes) : 72339**

**Annual Sediment Load for the period: 1979-2016**

**Station Name : THENI ( CVA00D4)**
**Local River : Suruliyar**

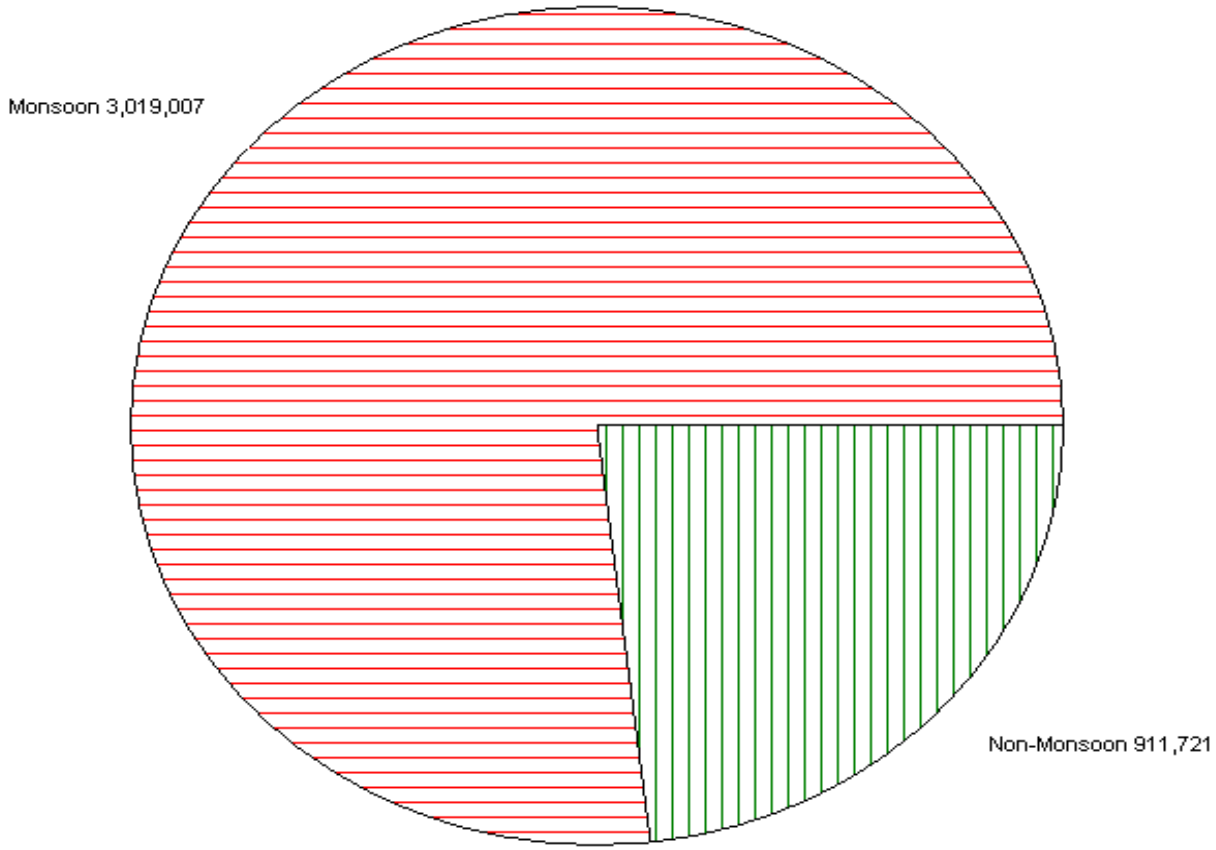
**Division : SR Division, Coimbatore**
**Sub-Division : Vaigai SD Madurai**



**Seasonal Sediment Load for the period : 1979-2015**

**Station Name : THENI ( CVA00D4)**
**Local River : Suruliyar**

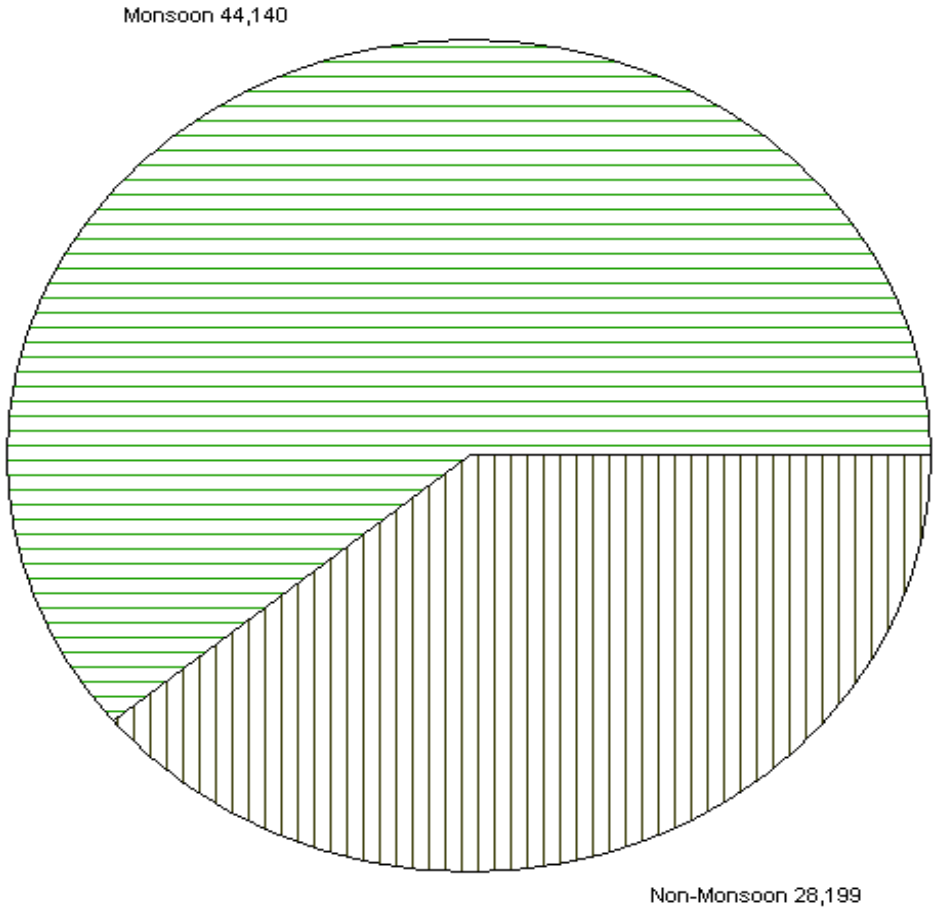
**Division : SR Division, Coimbatore**
**Sub-Division : Vaigai SD Madurai**



**Seasonal Sediment Load for the Year: 2015-2016**

**Station Name : THENI ( CVA00D4)**
**Local River : Suruliyar**

**Division : SR Division, Coimbatore**
**Sub-Division : Vaigai SD Madurai**



# BED MATERIAL ANALYSIS DATA

**RIVER : Suruliyar** **CODE No. : CVA00D4**

**SITE : Theni** **CROSS SECTION : SGL**

| Sl.No. | DATA FOR SAMPLE COLLECTED | | | | | | | | | | GENERAL DATA OF THE RIVER | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | R.D.(m) | R.L. OF DRY BED (m) | R.L. OF BED LEVEL (m) | W.L.(GTS) OF THE SAMPLING DEPTH (m) | DEPTH OF WATER (m) | WIDTH (m) | VELOCITY (m/s) | DISCHARGE ($m^3/s$) | Bed Material Composition | | WETTED PERIMETER (m) | HYDRAULIC MEAN DEPTH (m) | MEAN VELOCITY (m/s) | SURFACE WATER SLOPE | DISCHARGE ($m^3/s$) | Bed Material Composition | |
| | | | | | | | | | MAX SIZE (mm) | MEAN SIZE (mm) | | | | | | MAX SIZE (mm) | MEAN SIZE (mm) |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** | **16** | **17** | **18** |
| MONSOON 2015 | | | | | | **DATE OF COLLECTION** | | | | | | **30/11/2015** | | | | | |
| 1 | 40 | 277.960 | 277.960 | 280.000 | 2.04 | 38.0 | 0.655 | - | 11.0 | 1.56 | | | | | | | |
| 2 | 50 | 278.100 | 278.100 | 280.000 | 1.90 | 38.0 | 1.006 | - | 8.0 | 1.33 | | | | | | | |
| 3 | 60 | 278.660 | 278.660 | 280.000 | 1.34 | 38.0 | 1.040 | 47.450 | 9.0 | 1.43 | 38.87 | 1.601 | 0.762 | 0.00053 | 47.450 | 11.0 | 1.44 |
| POST MONSOON 2015 | | | | | | **DATE OF COLLECTION** | | | | | | **29/02/2016** | | | | | |
| 1 | 40 | 278.010 | 278.010 | 279.210 | 1.20 | 36.2 | 0.165 | - | 16.0 | 2.02 | | | | | | | |
| 2 | 50 | 278.090 | 278.090 | 279.210 | 1.12 | 36.2 | 0.247 | - | 13.0 | 1.40 | | | | | | | |
| 3 | 60 | 278.710 | 278.710 | 279.210 | 0.50 | 36.2 | 0.327 | 8.306 | 12.0 | 1.79 | 36.650 | 0.889 | 0.254 | 0.00033 | 8.306 | 16.0 | 1.74 |
| PRE MONSOON 2016 | | | | | | **DATE OF COLLECTION** | | | | | | **20/05/2016** | | | | | |
| 1 | 40 | 277.970 | 277.970 | 278.940 | 0.97 | 35.0 | 0.106 | - | 19.0 | 1.78 | | | | | | | |
| 2 | 50 | 278.040 | 278.040 | 278.940 | 0.90 | 35.0 | 0.106 | - | 17.0 | 1.26 | | | | | | | |
| 3 | 60 | 278.670 | 278.670 | 278.940 | 0.27 | 35.0 | 0.106 | 1.8580 | 16.0 | 2.61 | 35.27 | 0.684 | 0.077 | 0.00020 | 1.858 | 19.0 | 1.88 |

**Annual Sediment Load for period : 2003-2016**

**Station Name : AMBASAMUDRAM ( CV000U2)** **Division : SR Division, Coimbatore**

**Local River : Vaigai** **Sub-Division : Vaigai SD Madurai**

| Year | Monsoon (M.T.) | Non-Monsoon (M.T.) | Annual Load (M.T.) | Annual Run Off (MCM) |
|---|---|---|---|---|
| **2003-2004** | 32476 | 708 | 33184 | 18 |
| **2004-2005** | 115050 | 5912 | 120962 | 90 |
| **2005-2006** | 58134 | 82682 | 140816 | 158 |
| **2006-2007** | 52780 | 2993 | 55773 | 93 |
| **2007-2008** | 37271 | 130666 | 167937 | 195 |
| **2008-2009** | 32414 | 3023 | 35437 | 61 |
| **2009-2010** | 14158 | 3787 | 17945 | 48 |
| **2010-2011** | 9506 | 15996 | 25502 | 64 |
| **2011-2012** | 88003 | 16004 | 104007 | 100 |
| **2012-2013** | 1499 | 1 | 1500 | 6 |
| **2013-2014** | 122 | 162 | 284 | 3 |
| **2014-2015** | 2563 | 614 | 3177 | 40 |
| **2015-2016** | 6979 | 7755 | 14733 | 87 |

## Daily Observed Sediment Datasheet for period : 2015-2016

**Station Name : AMBASAMUDRAM ( CV000U2)** **Division : SR Division, Coimbatore**

**Local River : Vaigai** **Sub-Division : Vaigai SD Madurai**

| Day | Jun | | | | | | Jul | | | | | | Aug | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total 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) : 14733**

## Daily Observed Sediment Datasheet for period : 2015-2016

**Station Name : AMBASAMUDRAM ( CV000U2)** **Division : SR Division, Coimbatore**

**Local River : Vaigai** **Sub-Division : Vaigai SD Madurai**

| Day | Sep | | | | | | Oct | | | | | | Nov | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total 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 | 4.266 | 0.001 | 0.001 | 0.064 | 0.066 | 24 |
| 2 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 12.23 | 0.001 | 0.002 | 0.098 | 0.101 | 106 |
| 3 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 6.714 | 0.002 | 0.001 | 0.056 | 0.059 | 34 |
| 4 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 4.622 | 0.001 | 0.001 | 0.069 | 0.071 | 28 |
| 5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 5.113 | 0.001 | 0.001 | 0.034 | 0.035 | 15 |
| 6 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.837 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 5.896 | 0.001 | 0.000 | 0.049 | 0.050 | 26 |
| 7 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 1.767 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 4.698 | 0.001 | 0.001 | 0.042 | 0.044 | 18 |
| 8 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 5.642 | 0.001 | 0.001 | 0.047 | 0.049 | 24 |
| 9 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 9.960 | 0.001 | 0.001 | 0.073 | 0.075 | 64 |
| 10 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 7.171 | 0.001 | 0.001 | 0.053 | 0.055 | 34 |
| 11 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 3.893 | 0.000 | 0.000 | 0.027 | 0.027 | 9 |
| 12 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 3.817 | 0.000 | 0.000 | 0.026 | 0.026 | 9 |
| 13 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 3.070 | 0.000 | 0.000 | 0.021 | 0.021 | 6 |
| 14 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 5.497 | 0.000 | 0.000 | 0.038 | 0.038 | 18 |
| 15 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 2.262 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 3.636 | 0.000 | 0.000 | 0.025 | 0.025 | 8 |
| 16 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 2.219 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 3.216 | 0.000 | 0.000 | 0.022 | 0.022 | 6 |
| 17 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 1.336 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 3.559 | 0.000 | 0.000 | 0.025 | 0.025 | 8 |
| 18 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 3.528 | 0.000 | 0.000 | 0.024 | 0.024 | 7 |
| 19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 45.16 | 0.024 | 0.040 | 0.643 | 0.707 | 2758 |
| 20 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 1.475 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 46.00 | 0.030 | 0.045 | 0.495 | 0.570 | 2266 |
| 21 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 37.08 | 0.007 | 0.006 | 0.135 | 0.148 | 474 |
| 22 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 14.14 | 0.001 | 0.002 | 0.029 | 0.032 | 39 |
| 23 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 28.68 | 0.002 | 0.005 | 0.059 | 0.066 | 163 |
| 24 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 31.69 | 0.004 | 0.008 | 0.173 | 0.185 | 508 |
| 25 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 16.87 | 0.001 | 0.002 | 0.035 | 0.038 | 55 |
| 26 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 12.24 | 0.002 | 0.002 | 0.045 | 0.049 | 51 |
| 27 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 11.25 | 0.001 | 0.001 | 0.042 | 0.045 | 44 |
| 28 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 10.37 | 0.002 | 0.002 | 0.031 | 0.035 | 31 |
| 29 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 7.171 | 0.004 | 0.006 | 0.107 | 0.117 | 72 |
| 30 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 3.985 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 7.171 | 0.004 | 0.006 | 0.107 | 0.117 | 72 |
| 31 | | | | | | | 1.449 | 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 | 0.260 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 6.631 | 0.001 | 0.001 | 0.059 | 0.060 | 37 |
| Ten Daily II | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.729 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 12.14 | 0.005 | 0.009 | 0.135 | 0.148 | 509 |
| Ten Daily III | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.494 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 17.67 | 0.003 | 0.004 | 0.076 | 0.083 | 151 |
| Monthly | | | | | | | | | | | | | | | | | | |
| Total | | | | | | 0 | | | | | | 0 | | | | | | 6979 |

**Annual Sediment Load (Metric Tonnes) : 14733**

## Daily Observed Sediment Datasheet for period : 2015-2016

**Station Name : AMBASAMUDRAM ( CV000U2)** **Division : SR Division, Coimbatore**

**Local River : Vaigai** **Sub-Division : Vaigai SD Madurai**

| Day | Dec | | | | | | Jan | | | | | | Feb | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day |
| **1** | 14.44 | 0.002 | 0.004 | 0.012 | 0.018 | 22 | 5.325 | 0.000 | 0.001 | 0.011 | 0.012 | 5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| **2** | 10.36 | 0.001 | 0.003 | 0.025 | 0.029 | 26 | 3.903 | 0.000 | 0.001 | 0.008 | 0.009 | 3 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| **3** | 56.95 | 0.010 | 0.021 | 0.781 | 0.812 | 3995 | 3.232 | 0.000 | 0.001 | 0.007 | 0.008 | 2 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| **4** | 23.69 | 0.002 | 0.003 | 0.057 | 0.062 | 127 | 3.027 | 0.001 | 0.001 | 0.008 | 0.010 | 2 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| **5** | 17.26 | 0.001 | 0.001 | 0.040 | 0.042 | 62 | 2.821 | 0.000 | 0.000 | 0.005 | 0.005 | 1 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| **6** | 32.04 | 0.002 | 0.002 | 0.062 | 0.066 | 183 | 2.804 | 0.000 | 0.000 | 0.007 | 0.007 | 2 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| **7** | 31.46 | 0.002 | 0.002 | 0.061 | 0.065 | 175 | 2.540 | 0.000 | 0.000 | 0.005 | 0.005 | 1 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| **8** | 35.59 | 0.005 | 0.007 | 0.120 | 0.131 | 402 | 2.070 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| **9** | 32.28 | 0.003 | 0.008 | 0.064 | 0.075 | 210 | 1.921 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| **10** | 25.44 | 0.003 | 0.004 | 0.036 | 0.043 | 93 | 1.473 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| **11** | 19.60 | 0.002 | 0.003 | 0.057 | 0.062 | 104 | 1.227 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| **12** | 16.98 | 0.002 | 0.003 | 0.049 | 0.054 | 79 | 0.910 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| **13** | 19.89 | 0.002 | 0.003 | 0.058 | 0.063 | 108 | 1.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| **14** | 19.75 | 0.002 | 0.003 | 0.050 | 0.055 | 94 | 0.883 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| **15** | 16.91 | 0.002 | 0.002 | 0.074 | 0.077 | 113 | 1.079 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| **16** | 14.33 | 0.002 | 0.003 | 0.088 | 0.092 | 114 | 0.870 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| **17** | 13.97 | 0.002 | 0.002 | 0.104 | 0.107 | 130 | 0.737 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| **18** | 11.58 | 0.001 | 0.001 | 0.107 | 0.109 | 109 | 0.461 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| **19** | 13.84 | 0.001 | 0.001 | 0.038 | 0.040 | 48 | 0.429 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| **20** | 48.82 | 0.002 | 0.002 | 0.225 | 0.229 | 966 | 0.351 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| **21** | 19.96 | 0.001 | 0.001 | 0.092 | 0.094 | 162 | 0.138 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| **22** | 14.37 | 0.000 | 0.001 | 0.055 | 0.056 | 69 | 0.021 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| **23** | 14.84 | 0.001 | 0.001 | 0.046 | 0.048 | 61 | 0.244 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| **24** | 10.10 | 0.001 | 0.001 | 0.093 | 0.095 | 83 | 0.138 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| **25** | 8.740 | 0.001 | 0.001 | 0.081 | 0.083 | 63 | 0.069 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| **26** | 8.545 | 0.001 | 0.001 | 0.079 | 0.081 | 60 | 0.021 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| **27** | 7.056 | 0.001 | 0.001 | | | | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| **28** | 6.728 | 0.001 | 0.001 | 0.038 | 0.040 | 23 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| **29** | 6.393 | 0.000 | 0.001 | 0.033 | 0.035 | 19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| **30** | 6.466 | 0.001 | 0.001 | 0.051 | 0.052 | 29 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | | | | | | |
| **31** | 5.745 | 0.001 | 0.001 | 0.015 | 0.017 | 8 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | | | | | | |
| **Ten Daily Mean** | | | | | | | | | | | | | | | | | | |
| **Ten Daily I** | 27.95 | 0.003 | 0.006 | 0.126 | 0.134 | 530 | 2.911 | 0.000 | 0.000 | 0.005 | 0.006 | 2 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| **Ten Daily II** | 19.57 | 0.002 | 0.002 | 0.085 | 0.089 | 186 | 0.796 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| **Ten Daily III** | 9.904 | 0.001 | 0.001 | 0.058 | 0.060 | 58 | 0.057 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 |
| **Monthly** | | | | | | | | | | | | | | | | | | |
| **Total** | | | | | | 7737 | | | | | | 17 | | | | | | 0 |

**Annual Sediment Load (Metric Tonnes) : 14733**

## Daily Observed Sediment Datasheet for period : 2015-2016

**Station Name : AMBASAMUDRAM ( CV000U2)** **Division : SR Division, Coimbatore**

**Local River : Vaigai** **Sub-Division : Vaigai SD Madurai**

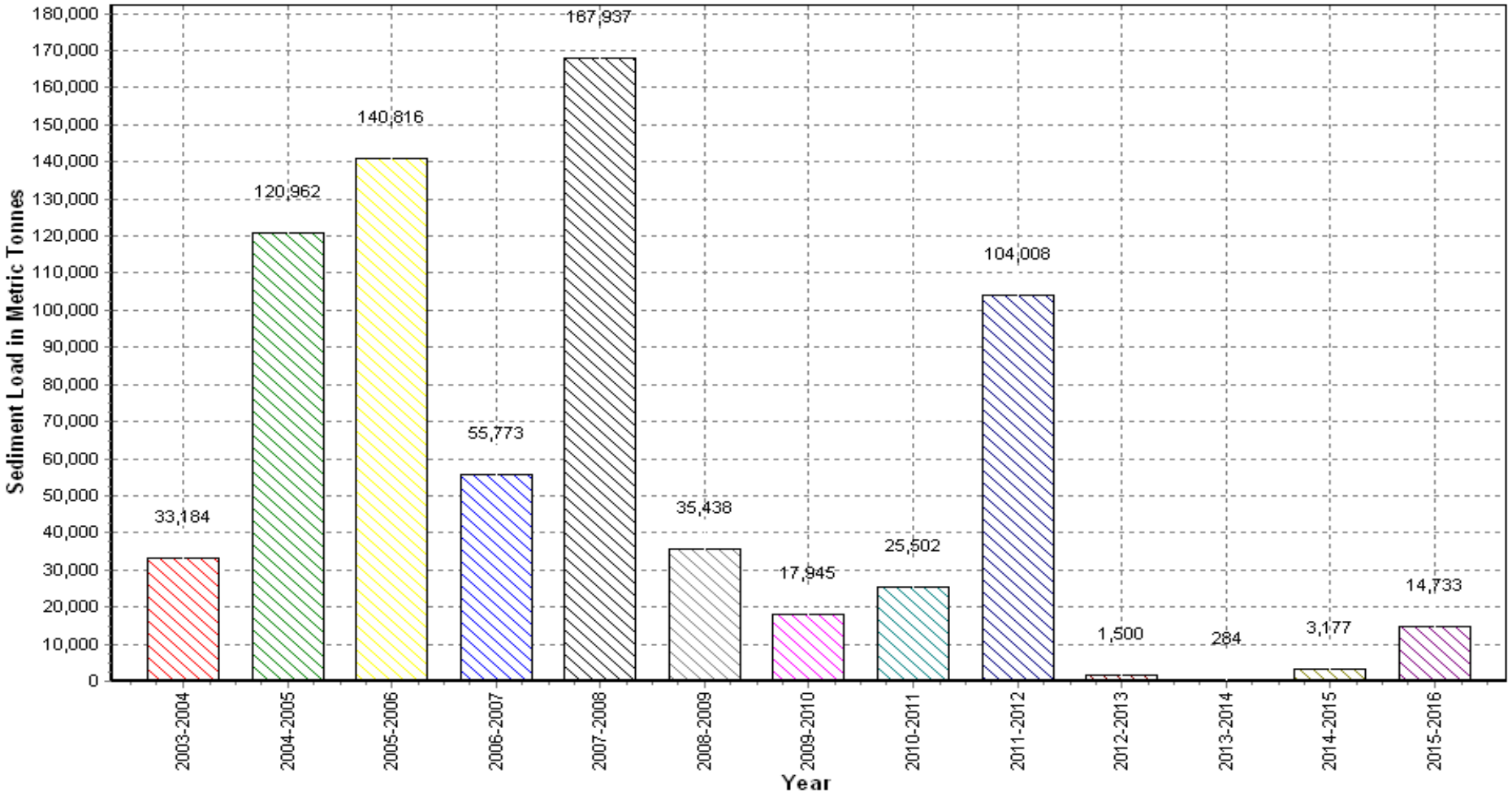
| Day | Mar | | | | | | Apr | | | | | | May | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total 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) : 14733**

**Annual Sediment Load for the period: 2003-2016**

**Station Name : AMBASAMUDRAM ( CV000U2)** **Division : SR Division, Coimbatore**

**Local River : Vaigai** **Sub-Division : Vaigai SD Madurai**



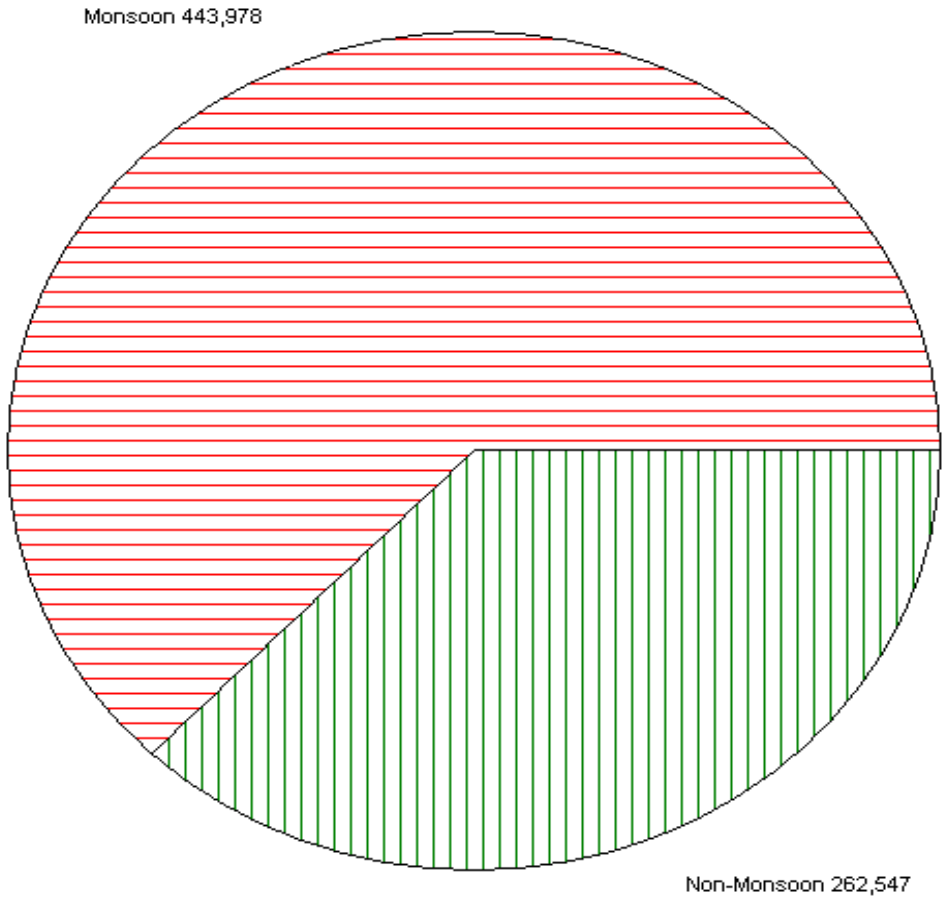
**Seasonal Sediment Load for the period : 2003-2015**

**Station Name : AMBASAMUDRAM ( CV000U2)**

**Local River : Vaigai**

**Division : SR Division, Coimbatore**

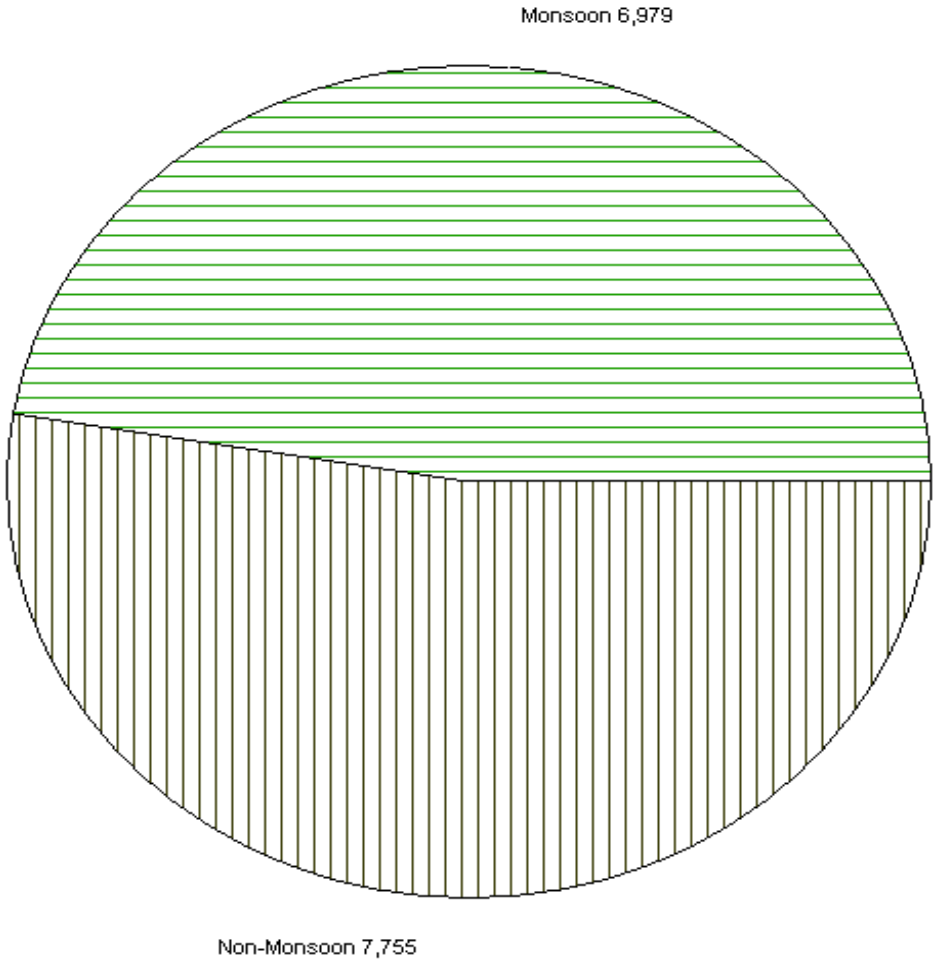
**Sub-Division : Vaigai SD Madurai**



**Seasonal Sediment Load for the Year: 2015-2016**

**Station Name : AMBASAMUDRAM ( CV000U2)**
**Local River : Vaigai**

**Division : SR Division, Coimbatore**
**Sub-Division : Vaigai SD Madurai**



# BED MATERIAL ANALYSIS DATA

**RIVER : Vaigai** **CODE No. : CV000U2**

**SITE : Ambasamudram** **CROSS SECTION : SGL**

| Sl.No. | DATA FOR SAMPLE COLLECTED | | | | | | | | | | GENERAL DATA OF THE RIVER | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | R.D.(m) | R.L. OF DRY BED (m) | R.L. OF BED LEVEL (m) | W.L.(GTS) OF THE SAMPLING DEPTH (m) | DEPTH OF WATER (m) | WIDTH (m) | VELOCITY (m/s) | DISCHARGE ($m^3/s$) | Bed Material Composition | | WETTED PERIMETER (m) | HYDRAULIC MEAN DEPTH (m) | MEAN VELOCITY (m/s) | SURFACE WATER SLOPE | DISCHARGE ($m^3/s$) | Bed Material Composition | |
| | | | | | | | | | MAX SIZE (mm) | MEAN SIZE (mm) | | | | | | MAX SIZE (mm) | MEAN SIZE (mm) |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** | **16** | **17** | **18** |
| MONSOON 2015 | | | | | **DATE OF COLLECTION** | | | | | | **30/10/2015** | | | | | | |
| 1 | 52 | 295.975 | 295.975 | 296.125 | 0.15 | 41.0 | 0.513 | - | 17.0 | 2.44 | | | | | | | |
| 2 | 72 | 296.075 | 296.075 | 296.125 | 0.05 | 41.0 | 0.312 | - | 11.0 | 2.16 | | | | | | | |
| 3 | 84 | 295.925 | 295.925 | 296.125 | 0.20 | 41.0 | 0.74 | 3.9850 | 9.0 | 1.62 | 42.03 | 0.157 | 0.891 | 0.00067 | 3.985 | 17.0 | 2.07 |
| POST MONSOON 2015 | | | | | **DATE OF COLLECTION** | | | | | | **19/02/2015** | | | | | | |
| 1 | 52 | 295.950 | 295.950 | - | - | - | - | - | 10.0 | 2.25 | | | | | | | |
| 2 | 72 | 296.060 | 296.060 | - | - | - | - | - | 10.0 | 2.12 | | | | | | | |
| 3 | 84 | 295.900 | 295.900 | - | - | - | - | - | 11.0 | 1.62 | - | - | - | - | -* | 11.0 | 2.00 |
| PRE MONSOON 2016 | | | | | **DATE OF COLLECTION** | | | | | | **18/05/2016** | | | | | | |
| 1 | 52 | 295.955 | 295.955 | - | - | - | - | - | 15.0 | 2.61 | | | | | | | |
| 2 | 72 | 296.060 | 296.060 | - | - | - | - | - | 11.0 | 2.01 | | | | | | | |
| 3 | 84 | 295.910 | 295.910 | - | - | - | - | - | 13.0 | 1.49 | - | - | - | - | -* | 15.0 | 2.04 |

* River Bed Dry.

## Annual Sediment Load for period : 1979-2016

**Station Name : MURAPPANADU ( CT000H9)** **Division : SR Division, Coimbatore**

**Local River : Tambraparani** **Sub-Division : Vaigai SD Madurai**

| Year | Monsoon (M.T.) | Non-Monsoon (M.T.) | Annual Load (M.T.) | Annual Run Off (MCM) |
|---|---|---|---|---|
| **1979-1980** | 591261 | 79402 | 670663 | 2296 |
| **1980-1981** | 20918 | 42258 | 63176 | 280 |
| **1981-1982** | 11748 | 16072 | 27820 | 357 |
| **1982-1983** | 20644 | 7056 | 27700 | 235 |
| **1983-1984** | 4640 | 210091 | 214731 | 1201 |
| **1984-1985** | 5260 | 6162 | 11422 | 253 |
| **1985-1986** | 11675 | 5235 | 16910 | 290 |
| **1986-1987** | 7033 | 4493 | 11526 | 229 |
| **1987-1988** | 31647 | 21546 | 53193 | 345 |
| **1988-1989** | 12427 | 4596 | 17023 | 242 |
| **1989-1990** | 10560 | 25383 | 35943 | 382 |
| **1990-1991** | 35824 | 21592 | 57416 | 518 |
| **1991-1992** | 20015 | 5723 | 25738 | 387 |
| **1992-1993** | 269077 | 40478 | 309555 | 996 |
| **1993-1994** | 106984 | 70939 | 177923 | 1214 |
| **1994-1995** | 50994 | 7340 | 58334 | 559 |
| **1995-1996** | 9838 | 3432 | 13270 | 242 |
| **1996-1997** | 3120 | 6482 | 9602 | 215 |
| **1997-1998** | 21538 | 53348 | 74886 | 882 |
| **1998-1999** | 4374 | 22118 | 26492 | 421 |
| **1999-2000** | 7666 | 5535 | 13201 | 390 |
| **2000-2001** | 8756 | 7549 | 16305 | 448 |
| **2001-2002** | 2665 | 4473 | 7138 | 276 |
| **2002-2003** | 5502 | 4366 | 9868 | 297 |
| **2003-2004** | 2954 | 2689 | 5643 | 282 |
| **2004-2005** | 53604 | 7784 | 61388 | 945 |
| **2005-2006** | 4248 | 19062 | 23310 | 656 |
| **2006-2007** | SEDIMENT OBSERVATION NOT DONE | | | 1375 |
| **2007-2008** | Sed. Obsn. not done | 15388 | 15388 | 748 |
| **2008-2009** | 7620 | 11272 | 18892 | 691 |
| **2009-2010** | 6244 | 4441 | 10685 | 463 |
| **2010-2011** | 1915 | 3246 | 5161 | 346 |
| **2011-2012** | 5824 | 1744 | 7568 | 359 |
| **2012-2013** | 523 | 1215 | 1738 | 173 |
| **2013-2014** | 2442 | 2355 | 4797 | 399 |
| **2014-2015** | 3656 | 4126 | 7782 | 625 |
| **2015-2016** | 4008 | 14258 | 18266 | 1015 |

## Daily Observed Sediment Datasheet for period : 2015-2016

**Station Name : MURAPPANADU ( CT000H9)** **Division : SR Division, Coimbatore**

**Local River : Tambraparani** **Sub-Division : Vaigai SD Madurai**

| Day | Jun | | | | | | Jul | | | | | | Aug | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day |
| **1** | 7.907 | 0.000 | 0.000 | 0.008 | 0.008 | 6 | 11.58 | 0.000 | 0.000 | 0.009 | 0.009 | 9 | 22.51 | 0.000 | 0.000 | 0.009 | 0.009 | 17 |
| **2** | 7.861 | 0.000 | 0.000 | 0.009 | 0.009 | 6 | 9.668 | 0.000 | 0.000 | 0.009 | 0.009 | 7 | 21.79 | 0.000 | 0.000 | 0.009 | 0.009 | 17 |
| **3** | 7.796 | 0.000 | 0.000 | 0.008 | 0.008 | 5 | 9.424 | 0.000 | 0.000 | 0.009 | 0.009 | 7 | 23.88 | 0.000 | 0.000 | 0.008 | 0.008 | 17 |
| **4** | 7.795 | 0.000 | 0.000 | 0.009 | 0.009 | 6 | 7.489 | 0.000 | 0.000 | 0.010 | 0.010 | 6 | 19.62 | 0.000 | 0.000 | 0.009 | 0.009 | 14 |
| **5** | 7.649 | 0.000 | 0.000 | 0.009 | 0.009 | 6 | 5.079 | 0.000 | 0.000 | 0.007 | 0.007 | 3 | 23.91 | 0.000 | 0.000 | 0.008 | 0.008 | 17 |
| **6** | 7.137 | 0.000 | 0.000 | 0.009 | 0.009 | 5 | 6.999 | 0.000 | 0.000 | 0.009 | 0.009 | 5 | 22.14 | 0.000 | 0.000 | 0.008 | 0.008 | 16 |
| **7** | 6.125 | 0.000 | 0.000 | 0.008 | 0.008 | 4 | 2.782 | 0.000 | 0.000 | 0.008 | 0.008 | 2 | 20.85 | 0.000 | 0.000 | 0.008 | 0.008 | 15 |
| **8** | 3.748 | 0.000 | 0.000 | 0.008 | 0.008 | 3 | 3.141 | 0.000 | 0.000 | 0.009 | 0.009 | 2 | 11.20 | 0.000 | 0.000 | 0.010 | 0.010 | 9 |
| **9** | 7.220 | 0.000 | 0.000 | 0.009 | 0.009 | 6 | 2.737 | 0.000 | 0.000 | 0.007 | 0.007 | 2 | 11.35 | 0.000 | 0.000 | 0.009 | 0.009 | 9 |
| **10** | 6.455 | 0.000 | 0.000 | 0.009 | 0.009 | 5 | 3.727 | 0.000 | 0.000 | 0.009 | 0.009 | 3 | 11.35 | 0.000 | 0.000 | 0.009 | 0.009 | 9 |
| **11** | 6.264 | 0.000 | 0.000 | 0.009 | 0.009 | 5 | 3.853 | 0.000 | 0.000 | 0.009 | 0.009 | 3 | 15.64 | 0.000 | 0.000 | 0.009 | 0.009 | 13 |
| **12** | 5.765 | 0.000 | 0.000 | 0.010 | 0.010 | 5 | 5.206 | 0.000 | 0.000 | 0.007 | 0.007 | 3 | 12.86 | 0.000 | 0.000 | 0.008 | 0.008 | 9 |
| **13** | 7.014 | 0.000 | 0.000 | 0.008 | 0.008 | 5 | 8.495 | 0.000 | 0.000 | 0.009 | 0.009 | 7 | 12.72 | 0.000 | 0.000 | 0.009 | 0.009 | 10 |
| **14** | 6.398 | 0.000 | 0.000 | 0.008 | 0.008 | 4 | 7.955 | 0.000 | 0.000 | 0.008 | 0.008 | 5 | 12.35 | 0.000 | 0.000 | 0.009 | 0.009 | 10 |
| **15** | 7.586 | 0.000 | 0.000 | 0.009 | 0.009 | 6 | 9.298 | 0.000 | 0.000 | 0.009 | 0.009 | 7 | 11.68 | 0.000 | 0.000 | 0.008 | 0.008 | 8 |
| **16** | 8.363 | 0.000 | 0.000 | 0.009 | 0.009 | 7 | 10.98 | 0.000 | 0.000 | 0.007 | 0.007 | 7 | 11.20 | 0.000 | 0.000 | 0.008 | 0.008 | 8 |
| **17** | 9.659 | 0.000 | 0.000 | 0.008 | 0.008 | 7 | 15.84 | 0.000 | 0.000 | 0.008 | 0.008 | 11 | 8.657 | 0.000 | 0.000 | 0.008 | 0.008 | 6 |
| **18** | 10.08 | 0.000 | 0.000 | 0.009 | 0.009 | 8 | 10.82 | 0.000 | 0.000 | 0.007 | 0.007 | 7 | 12.57 | 0.000 | 0.000 | 0.009 | 0.009 | 9 |
| **19** | 8.352 | 0.000 | 0.000 | 0.009 | 0.009 | 7 | 10.16 | 0.000 | 0.000 | 0.006 | 0.006 | 5 | 8.370 | 0.000 | 0.000 | 0.007 | 0.007 | 5 |
| **20** | 9.610 | 0.000 | 0.000 | 0.009 | 0.009 | 7 | 14.68 | 0.000 | 0.000 | 0.009 | 0.009 | 12 | 5.434 | 0.000 | 0.000 | 0.010 | 0.010 | 5 |
| **21** | 7.099 | 0.000 | 0.000 | 0.009 | 0.009 | 6 | 14.88 | 0.000 | 0.000 | 0.009 | 0.009 | 11 | 5.194 | 0.000 | 0.000 | 0.009 | 0.009 | 4 |
| **22** | 8.405 | 0.000 | 0.000 | 0.009 | 0.009 | 7 | 17.33 | 0.000 | 0.000 | 0.008 | 0.008 | 11 | 10.21 | 0.000 | 0.000 | 0.009 | 0.009 | 8 |
| **23** | 10.52 | 0.000 | 0.000 | 0.008 | 0.008 | 7 | 8.731 | 0.000 | 0.000 | 0.009 | 0.009 | 7 | 8.053 | 0.000 | 0.000 | 0.008 | 0.008 | 6 |
| **24** | 10.67 | 0.000 | 0.000 | 0.009 | 0.009 | 8 | 12.53 | 0.000 | 0.000 | 0.007 | 0.007 | 8 | 8.659 | 0.000 | 0.000 | 0.009 | 0.009 | 7 |
| **25** | 10.28 | 0.000 | 0.000 | 0.009 | 0.009 | 8 | 19.41 | 0.000 | 0.000 | 0.009 | 0.009 | 15 | 4.611 | 0.000 | 0.000 | 0.009 | 0.009 | 3 |
| **26** | 9.472 | 0.000 | 0.000 | 0.009 | 0.009 | 7 | 19.89 | 0.000 | 0.000 | 0.009 | 0.009 | 15 | 3.650 | 0.000 | 0.000 | 0.009 | 0.009 | 3 |
| **27** | 8.972 | 0.000 | 0.000 | 0.009 | 0.009 | 7 | 18.75 | 0.000 | 0.000 | 0.009 | 0.009 | 14 | 3.329 | 0.000 | 0.000 | 0.008 | 0.008 | 2 |
| **28** | 12.00 | 0.000 | 0.000 | 0.009 | 0.009 | 9 | 18.74 | 0.000 | 0.000 | 0.009 | 0.009 | 14 | 2.880 | 0.000 | 0.000 | 0.009 | 0.009 | 2 |
| **29** | 14.04 | 0.000 | 0.000 | 0.009 | 0.009 | 11 | 17.88 | 0.000 | 0.000 | 0.009 | 0.009 | 13 | 3.027 | 0.000 | 0.000 | 0.009 | 0.009 | 2 |
| **30** | 9.224 | 0.000 | 0.000 | 0.009 | 0.009 | 7 | 20.25 | 0.000 | 0.000 | 0.010 | 0.010 | 17 | 2.926 | 0.000 | 0.000 | 0.009 | 0.009 | 2 |
| **31** | | | | | | | 20.20 | 0.000 | 0.000 | 0.009 | 0.009 | 16 | 2.036 | 0.000 | 0.000 | 0.006 | 0.006 | 1 |
| **Ten Daily Mean** | | | | | | | | | | | | | | | | | | |
| **Ten Daily I** | 6.969 | 0.000 | 0.000 | 0.008 | 0.008 | 5 | 6.263 | 0.000 | 0.000 | 0.008 | 0.008 | 5 | 18.86 | 0.000 | 0.000 | 0.009 | 0.009 | 14 |
| **Ten Daily II** | 7.909 | 0.000 | 0.000 | 0.009 | 0.009 | 6 | 9.729 | 0.000 | 0.000 | 0.008 | 0.008 | 7 | 11.15 | 0.000 | 0.000 | 0.008 | 0.008 | 8 |
| **Ten Daily III** | 10.07 | 0.000 | 0.000 | 0.009 | 0.009 | 8 | 17.14 | 0.000 | 0.000 | 0.009 | 0.009 | 13 | 4.961 | 0.000 | 0.000 | 0.009 | 0.009 | 4 |
| **Monthly** | | | | | | | | | | | | | | | | | | |
| **Total** | | | | | | 188 | | | | | | 256 | | | | | | 263 |

**Annual Sediment Load (Metric Tonnes) : 18266**

## Daily Observed Sediment Datasheet for period : 2015-2016

**Station Name : MURAPPANADU ( CT000H9)** **Division : SR Division, Coimbatore**

**Local River : Tambraparani** **Sub-Division : Vaigai SD Madurai**

| Day | Sep | | | | | | Oct | | | | | | Nov | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day |
| **1** | 1.846 | | | | | | 16.87 | 0.000 | 0.000 | 0.008 | 0.008 | 12 | 11.44 | 0.000 | 0.000 | 0.010 | 0.010 | 10 |
| **2** | 2.086 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 14.01 | 0.000 | 0.000 | 0.009 | 0.009 | 11 | 16.38 | 0.000 | 0.000 | 0.010 | 0.010 | 14 |
| **3** | 1.956 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 13.12 | 0.000 | 0.000 | 0.009 | 0.009 | 10 | 11.68 | 0.000 | 0.000 | 0.010 | 0.010 | 10 |
| **4** | 4.611 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 10.54 | 0.000 | 0.000 | 0.009 | 0.009 | 8 | 15.80 | 0.000 | 0.000 | 0.010 | 0.010 | 14 |
| **5** | 4.289 | 0.000 | 0.000 | 0.009 | 0.009 | 3 | 9.379 | 0.000 | 0.000 | 0.009 | 0.009 | 7 | 15.97 | 0.000 | 0.000 | 0.010 | 0.010 | 14 |
| **6** | 6.179 | 0.000 | 0.000 | 0.009 | 0.009 | 5 | 8.665 | 0.000 | 0.000 | 0.010 | 0.010 | 7 | 10.79 | 0.000 | 0.000 | 0.006 | 0.006 | 6 |
| **7** | 10.79 | 0.000 | 0.000 | 0.009 | 0.009 | 8 | 14.18 | 0.000 | 0.000 | 0.009 | 0.009 | 11 | 15.68 | 0.000 | 0.000 | 0.009 | 0.009 | 12 |
| **8** | 10.62 | 0.000 | 0.000 | 0.009 | 0.009 | 8 | 13.17 | 0.000 | 0.000 | 0.009 | 0.009 | 10 | 30.57 | 0.000 | 0.000 | 0.011 | 0.011 | 29 |
| **9** | 5.786 | 0.000 | 0.000 | 0.011 | 0.011 | 5 | 17.13 | 0.000 | 0.000 | 0.009 | 0.009 | 13 | 122.1 | 0.000 | 0.000 | 0.014 | 0.014 | 148 |
| **10** | 5.540 | 0.000 | 0.000 | 0.009 | 0.009 | 4 | 12.72 | 0.000 | 0.000 | 0.009 | 0.009 | 10 | 69.42 | 0.000 | 0.000 | 0.012 | 0.012 | 72 |
| **11** | 6.162 | 0.000 | 0.000 | 0.009 | 0.009 | 5 | 16.45 | 0.000 | 0.000 | 0.010 | 0.010 | 14 | 32.46 | 0.000 | 0.000 | 0.012 | 0.012 | 32 |
| **12** | 6.697 | 0.000 | 0.000 | 0.011 | 0.011 | 7 | 13.36 | 0.000 | 0.000 | 0.010 | 0.010 | 11 | 16.46 | 0.000 | 0.000 | 0.042 | 0.042 | 60 |
| **13** | 5.556 | 0.000 | 0.000 | 0.008 | 0.008 | 4 | 11.84 | 0.000 | 0.000 | 0.008 | 0.008 | 8 | 12.91 | 0.000 | 0.000 | 0.036 | 0.036 | 40 |
| **14** | 5.240 | 0.000 | 0.000 | 0.008 | 0.008 | 4 | 6.677 | 0.000 | 0.000 | 0.009 | 0.009 | 5 | 64.81 | 0.000 | 0.000 | 0.039 | 0.039 | 221 |
| **15** | 7.368 | 0.000 | 0.000 | 0.008 | 0.008 | 5 | 7.807 | 0.000 | 0.000 | 0.009 | 0.009 | 6 | 92.25 | 0.000 | 0.000 | 0.056 | 0.056 | 446 |
| **16** | 8.280 | 0.000 | 0.000 | 0.008 | 0.008 | 6 | 6.652 | 0.000 | 0.000 | 0.009 | 0.009 | 5 | 41.82 | 0.000 | 0.000 | 0.025 | 0.025 | 89 |
| **17** | 12.06 | 0.000 | 0.000 | 0.009 | 0.009 | 9 | 8.967 | 0.000 | 0.000 | 0.008 | 0.008 | 6 | 28.67 | 0.000 | 0.000 | 0.017 | 0.017 | 42 |
| **18** | 11.26 | 0.000 | 0.000 | 0.009 | 0.009 | 8 | 9.663 | 0.000 | 0.000 | 0.008 | 0.008 | 7 | 12.49 | 0.000 | 0.000 | 0.010 | 0.010 | 11 |
| **19** | 9.752 | 0.000 | 0.000 | 0.008 | 0.008 | 6 | 5.569 | 0.000 | 0.000 | 0.008 | 0.008 | 4 | 46.45 | 0.000 | 0.000 | 0.010 | 0.010 | 39 |
| **20** | 9.663 | 0.000 | 0.000 | 0.008 | 0.008 | 7 | 9.185 | 0.000 | 0.000 | 0.009 | 0.009 | 7 | 149.3 | 0.012 | 0.003 | 0.009 | 0.024 | 306 |
| **21** | 11.19 | 0.000 | 0.000 | 0.010 | 0.010 | 9 | 10.24 | 0.000 | 0.000 | 0.009 | 0.009 | 8 | 79.73 | 0.000 | 0.000 | 0.009 | 0.009 | 64 |
| **22** | 9.235 | 0.000 | 0.000 | 0.009 | 0.009 | 7 | 9.379 | 0.000 | 0.000 | 0.009 | 0.009 | 7 | 106.3 | 0.001 | 0.001 | 0.009 | 0.011 | 101 |
| **23** | 6.064 | 0.000 | 0.000 | 0.009 | 0.009 | 5 | 6.990 | 0.000 | 0.000 | 0.009 | 0.009 | 5 | 145.1 | 0.001 | 0.001 | 0.009 | 0.011 | 138 |
| **24** | 8.280 | 0.000 | 0.000 | 0.008 | 0.008 | 6 | 6.381 | 0.000 | 0.000 | 0.008 | 0.008 | 4 | 224.5 | 0.003 | 0.003 | 0.010 | 0.016 | 306 |
| **25** | 13.18 | 0.000 | 0.000 | 0.009 | 0.009 | 10 | 6.991 | 0.000 | 0.000 | 0.009 | 0.009 | 5 | 208.0 | 0.003 | 0.003 | 0.010 | 0.016 | 288 |
| **26** | 11.59 | 0.000 | 0.000 | 0.008 | 0.008 | 8 | 7.188 | 0.000 | 0.000 | 0.009 | 0.009 | 6 | 132.0 | 0.003 | 0.004 | 0.011 | 0.018 | 202 |
| **27** | 10.54 | 0.000 | 0.000 | 0.008 | 0.008 | 7 | 6.937 | 0.000 | 0.000 | 0.008 | 0.008 | 5 | 64.81 | 0.000 | 0.000 | 0.009 | 0.009 | 50 |
| **28** | 18.02 | 0.000 | 0.000 | 0.009 | 0.009 | 14 | 6.363 | 0.000 | 0.000 | 0.009 | 0.009 | 5 | 45.81 | 0.000 | 0.000 | 0.010 | 0.010 | 39 |
| **29** | 26.07 | 0.000 | 0.000 | 0.008 | 0.008 | 18 | 9.506 | 0.000 | 0.000 | 0.009 | 0.009 | 7 | 26.91 | 0.000 | 0.000 | 0.009 | 0.009 | 21 |
| **30** | 17.38 | 0.000 | 0.000 | 0.010 | 0.010 | 15 | 8.837 | 0.000 | 0.000 | 0.008 | 0.008 | 6 | 52.24 | 0.000 | 0.000 | 0.010 | 0.010 | 45 |
| **31** | | | | | | | 12.04 | 0.000 | 0.000 | 0.009 | 0.009 | 9 | | | | | | |
| **Ten Daily Mean** | | | | | | | | | | | | | | | | | | |
| **Ten Daily I** | 5.370 | 0.000 | 0.000 | 0.006 | 0.006 | 4 | 12.98 | 0.000 | 0.000 | 0.009 | 0.009 | 10 | 31.98 | 0.000 | 0.000 | 0.010 | 0.010 | 33 |
| **Ten Daily II** | 8.204 | 0.000 | 0.000 | 0.009 | 0.009 | 6 | 9.617 | 0.000 | 0.000 | 0.009 | 0.009 | 7 | 49.76 | 0.001 | 0.000 | 0.025 | 0.027 | 128 |
| **Ten Daily III** | 13.16 | 0.000 | 0.000 | 0.009 | 0.009 | 10 | 8.259 | 0.000 | 0.000 | 0.009 | 0.009 | 6 | 108.5 | 0.001 | 0.001 | 0.010 | 0.012 | 125 |
| **Monthly** | | | | | | | | | | | | | | | | | | |
| **Total** | | | | | | 194 | | | | | | 240 | | | | | | 2867 |

**Annual Sediment Load (Metric Tonnes) : 18266**

## Daily Observed Sediment Datasheet for period : 2015-2016

**Station Name : MURAPPANADU ( CT000H9)** **Division : SR Division, Coimbatore**

**Local River : Tambraparani** **Sub-Division : Vaigai SD Madurai**

| Day | Dec | | | | | | Jan | | | | | | Feb | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day |
| **1** | 197.4 | 0.000 | 0.000 | 0.019 | 0.019 | 327 | 73.64 | 0.000 | 0.000 | 0.027 | 0.027 | 172 | 14.57 | 0.000 | 0.000 | 0.009 | 0.009 | 12 |
| **2** | 208.0 | 0.000 | 0.000 | 0.019 | 0.019 | 341 | 39.02 | 0.000 | 0.000 | 0.014 | 0.014 | 47 | 15.97 | 0.000 | 0.000 | 0.010 | 0.010 | 13 |
| **3** | 130.1 | 0.000 | 0.000 | 0.019 | 0.019 | 214 | 42.68 | 0.000 | 0.000 | 0.015 | 0.015 | 55 | 22.28 | 0.000 | 0.000 | 0.010 | 0.010 | 20 |
| **4** | 250.9 | 0.000 | 0.000 | 0.024 | 0.024 | 520 | 57.28 | 0.000 | 0.000 | 0.021 | 0.021 | 104 | 18.63 | 0.000 | 0.000 | 0.009 | 0.009 | 15 |
| **5** | 175.3 | 0.000 | 0.000 | 0.017 | 0.017 | 257 | 36.66 | 0.000 | 0.000 | 0.013 | 0.013 | 41 | 23.00 | 0.000 | 0.000 | 0.010 | 0.010 | 19 |
| **6** | 179.8 | 0.000 | 0.000 | 0.017 | 0.017 | 264 | 35.50 | 0.000 | 0.000 | 0.013 | 0.013 | 40 | 24.15 | 0.000 | 0.000 | 0.010 | 0.010 | 20 |
| **7** | 337.7 | 0.000 | 0.000 | 0.033 | 0.033 | 963 | 26.23 | 0.000 | 0.000 | 0.009 | 0.009 | 20 | 29.40 | 0.000 | 0.000 | 0.012 | 0.012 | 30 |
| **8** | 333.2 | 0.000 | 0.000 | 0.032 | 0.032 | 921 | 28.76 | 0.000 | 0.000 | 0.009 | 0.009 | 22 | 14.77 | 0.000 | 0.000 | 0.008 | 0.008 | 10 |
| **9** | 428.4 | 0.000 | 0.000 | 0.041 | 0.041 | 1518 | 25.15 | 0.000 | 0.000 | 0.010 | 0.010 | 21 | 13.65 | 0.000 | 0.000 | 0.009 | 0.009 | 10 |
| **10** | 275.0 | 0.000 | 0.000 | 0.026 | 0.026 | 618 | 16.56 | 0.000 | 0.000 | 0.009 | 0.009 | 13 | 10.50 | 0.000 | 0.000 | 0.007 | 0.007 | 6 |
| **11** | 309.9 | 0.000 | 0.000 | 0.030 | 0.030 | 803 | 16.37 | 0.000 | 0.000 | 0.009 | 0.009 | 13 | 9.782 | 0.000 | 0.000 | 0.010 | 0.010 | 8 |
| **12** | 357.2 | 0.000 | 0.000 | 0.034 | 0.034 | 1049 | 15.71 | 0.000 | 0.000 | 0.009 | 0.009 | 12 | 9.817 | 0.000 | 0.000 | 0.010 | 0.010 | 8 |
| **13** | 281.8 | 0.000 | 0.000 | 0.027 | 0.027 | 657 | 16.21 | 0.000 | 0.000 | 0.009 | 0.009 | 12 | 10.25 | 0.000 | 0.000 | 0.008 | 0.008 | 7 |
| **14** | 215.4 | 0.000 | 0.000 | 0.021 | 0.021 | 391 | 18.16 | 0.000 | 0.000 | 0.009 | 0.009 | 14 | 12.61 | 0.000 | 0.000 | 0.005 | 0.005 | 5 |
| **15** | 142.8 | 0.000 | 0.000 | 0.014 | 0.014 | 173 | 20.05 | 0.000 | 0.000 | 0.001 | 0.001 | 2 | 15.52 | 0.000 | 0.000 | 0.005 | 0.005 | 6 |
| **16** | 100.4 | 0.000 | 0.000 | 0.010 | 0.010 | 87 | 22.86 | 0.000 | 0.000 | 0.010 | 0.010 | 19 | 11.85 | 0.000 | 0.000 | 0.005 | 0.005 | 5 |
| **17** | 135.7 | 0.000 | 0.000 | 0.013 | 0.013 | 152 | 19.60 | 0.000 | 0.000 | 0.001 | 0.001 | 2 | 10.65 | 0.000 | 0.000 | 0.005 | 0.005 | 5 |
| **18** | 116.1 | 0.000 | 0.000 | 0.011 | 0.011 | 110 | 17.21 | 0.000 | 0.000 | 0.010 | 0.010 | 15 | 10.34 | 0.000 | 0.000 | 0.007 | 0.007 | 6 |
| **19** | 189.0 | 0.000 | 0.000 | 0.018 | 0.018 | 294 | 17.06 | 0.000 | 0.000 | 0.010 | 0.010 | 15 | 13.07 | 0.000 | 0.000 | 0.006 | 0.006 | 6 |
| **20** | 307.1 | 0.000 | 0.000 | 0.030 | 0.030 | 796 | 14.53 | 0.000 | 0.000 | 0.010 | 0.010 | 12 | 12.54 | 0.000 | 0.000 | 0.005 | 0.005 | 6 |
| **21** | 253.6 | 0.000 | 0.000 | 0.024 | 0.024 | 526 | 13.43 | 0.000 | 0.000 | 0.010 | 0.010 | 11 | 13.75 | 0.000 | 0.000 | 0.005 | 0.005 | 6 |
| **22** | 187.9 | 0.000 | 0.000 | 0.018 | 0.018 | 292 | 13.12 | 0.000 | 0.000 | 0.010 | 0.010 | 12 | 15.40 | 0.000 | 0.000 | 0.005 | 0.005 | 7 |
| **23** | 118.0 | 0.000 | 0.000 | 0.011 | 0.011 | 112 | 13.78 | 0.000 | 0.000 | 0.010 | 0.010 | 12 | 15.87 | 0.000 | 0.000 | 0.009 | 0.009 | 12 |
| **24** | 81.64 | 0.000 | 0.000 | 0.008 | 0.008 | 56 | 14.53 | 0.000 | 0.000 | 0.010 | 0.010 | 13 | 14.89 | 0.000 | 0.000 | 0.010 | 0.010 | 13 |
| **25** | 60.12 | 0.000 | 0.000 | 0.006 | 0.006 | 31 | 13.23 | 0.000 | 0.000 | 0.010 | 0.010 | 11 | 13.65 | 0.000 | 0.000 | 0.009 | 0.009 | 11 |
| **26** | 53.12 | 0.000 | 0.000 | 0.005 | 0.005 | 23 | 13.37 | 0.000 | 0.000 | 0.010 | 0.010 | 12 | 13.38 | 0.000 | 0.000 | 0.006 | 0.006 | 7 |
| **27** | 49.76 | 0.000 | 0.000 | 0.005 | 0.005 | 21 | 12.39 | 0.000 | 0.000 | 0.009 | 0.009 | 10 | 14.21 | 0.000 | 0.000 | 0.009 | 0.009 | 11 |
| **28** | 53.12 | 0.000 | 0.000 | 0.005 | 0.005 | 23 | 17.51 | 0.000 | 0.000 | 0.010 | 0.010 | 16 | 13.37 | 0.000 | 0.000 | 0.006 | 0.006 | 7 |
| **29** | 154.4 | 0.000 | 0.000 | 0.015 | 0.015 | 200 | 13.60 | 0.000 | 0.000 | 0.010 | 0.010 | 12 | 16.17 | 0.000 | 0.000 | 0.007 | 0.007 | 9 |
| **30** | 144.9 | 0.000 | 0.000 | 0.014 | 0.014 | 175 | 14.19 | 0.000 | 0.000 | 0.010 | 0.010 | 12 | | | | | | |
| **31** | 173.0 | 0.000 | 0.000 | 0.017 | 0.017 | 254 | 13.75 | 0.000 | 0.000 | 0.010 | 0.010 | 12 | | | | | | |
| **Ten Daily Mean** | | | | | | | | | | | | | | | | | | |
| **Ten Daily I** | 251.6 | 0.000 | 0.000 | 0.025 | 0.025 | 594 | 38.15 | 0.000 | 0.000 | 0.014 | 0.014 | 54 | 18.69 | 0.000 | 0.000 | 0.009 | 0.009 | 16 |
| **Ten Daily II** | 215.5 | 0.000 | 0.000 | 0.021 | 0.021 | 451 | 17.78 | 0.000 | 0.000 | 0.008 | 0.008 | 11 | 11.64 | 0.000 | 0.000 | 0.007 | 0.007 | 6 |
| **Ten Daily III** | 120.9 | 0.000 | 0.000 | 0.012 | 0.012 | 156 | 13.90 | 0.000 | 0.000 | 0.010 | 0.010 | 12 | 14.52 | 0.000 | 0.000 | 0.007 | 0.007 | 9 |
| **Monthly** | | | | | | | | | | | | | | | | | | |
| **Total** | | | | | | 12171 | | | | | | 781 | | | | | | 303 |

**Annual Sediment Load (Metric Tonnes) : 18266**

## Daily Observed Sediment Datasheet for period : 2015-2016

**Station Name : MURAPPANADU ( CT000H9)** **Division : SR Division, Coimbatore**

**Local River : Tambraparani** **Sub-Division : Vaigai SD Madurai**

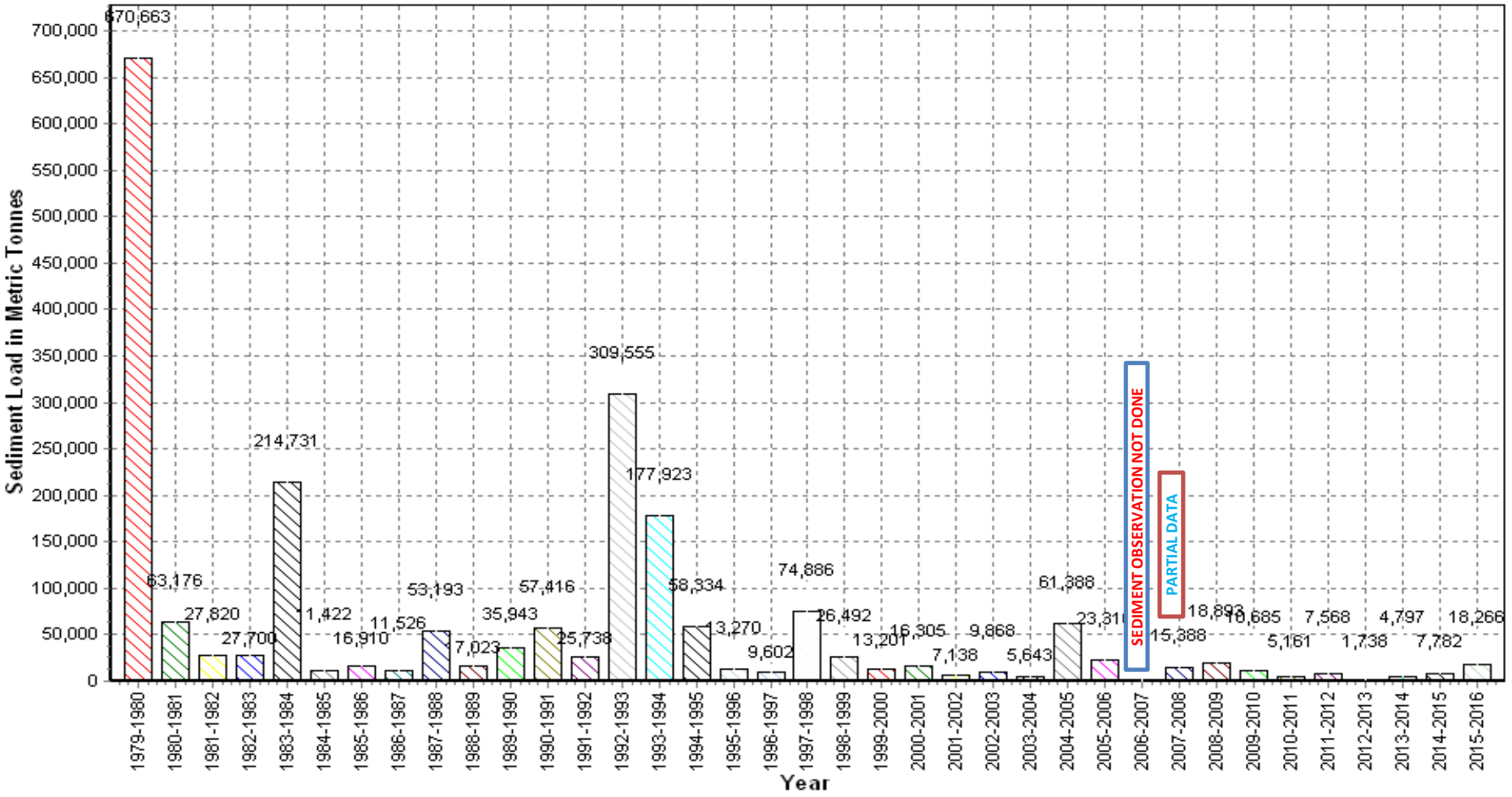
| Day | Mar | | | | | | Apr | | | | | | May | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day | Q cumecs. | Coarse g/l | Medium g/l | Fine g/l | Total g/l | Total M.T./day |
| **1** | 15.67 | 0.000 | 0.000 | 0.007 | 0.007 | 9 | 12.28 | 0.000 | 0.000 | 0.012 | 0.012 | 13 | 10.46 | 0.000 | 0.000 | 0.010 | 0.010 | 9 |
| **2** | 22.32 | 0.000 | 0.000 | 0.007 | 0.007 | 13 | 13.20 | 0.000 | 0.000 | 0.009 | 0.009 | 10 | 11.74 | 0.000 | 0.000 | 0.010 | 0.010 | 10 |
| **3** | 26.94 | 0.000 | 0.000 | 0.007 | 0.007 | 17 | 10.81 | 0.000 | 0.000 | 0.010 | 0.010 | 9 | 14.16 | 0.000 | 0.000 | 0.009 | 0.009 | 11 |
| **4** | 28.34 | 0.000 | 0.000 | 0.007 | 0.007 | 18 | 6.312 | 0.000 | 0.000 | 0.010 | 0.010 | 5 | 12.65 | 0.000 | 0.000 | 0.008 | 0.008 | 8 |
| **5** | 28.45 | 0.000 | 0.000 | 0.011 | 0.011 | 26 | 8.508 | 0.000 | 0.000 | 0.009 | 0.009 | 7 | 11.81 | 0.000 | 0.000 | 0.009 | 0.009 | 9 |
| **6** | 27.83 | 0.000 | 0.000 | 0.010 | 0.010 | 24 | 6.972 | 0.000 | 0.000 | 0.010 | 0.010 | 6 | 12.17 | 0.000 | 0.000 | 0.008 | 0.008 | 8 |
| **7** | 31.11 | 0.000 | 0.000 | 0.010 | 0.010 | 27 | 8.721 | 0.000 | 0.000 | 0.008 | 0.008 | 6 | 14.61 | 0.000 | 0.000 | 0.010 | 0.010 | 12 |
| **8** | 28.90 | 0.000 | 0.000 | 0.009 | 0.009 | 23 | 6.262 | 0.000 | 0.000 | 0.009 | 0.009 | 5 | 14.53 | 0.000 | 0.000 | 0.010 | 0.010 | 13 |
| **9** | 29.76 | 0.000 | 0.000 | 0.009 | 0.009 | 23 | 8.439 | 0.000 | 0.000 | 0.010 | 0.010 | 8 | 17.16 | 0.000 | 0.000 | 0.009 | 0.009 | 13 |
| **10** | 26.10 | 0.000 | 0.000 | 0.007 | 0.007 | 16 | 8.172 | 0.000 | 0.000 | 0.011 | 0.011 | 8 | 15.57 | 0.000 | 0.000 | 0.009 | 0.009 | 11 |
| **11** | 23.42 | 0.000 | 0.000 | 0.009 | 0.009 | 18 | 6.153 | 0.000 | 0.000 | 0.011 | 0.011 | 6 | 17.93 | 0.000 | 0.000 | 0.009 | 0.009 | 13 |
| **12** | 22.74 | 0.000 | 0.000 | 0.009 | 0.009 | 18 | 6.324 | 0.000 | 0.000 | 0.011 | 0.011 | 6 | 20.17 | 0.000 | 0.000 | 0.008 | 0.008 | 14 |
| **13** | 22.84 | 0.000 | 0.000 | 0.009 | 0.009 | 18 | 4.970 | 0.000 | 0.000 | 0.010 | 0.010 | 4 | 20.24 | 0.000 | 0.000 | 0.008 | 0.008 | 14 |
| **14** | 20.30 | 0.000 | 0.000 | 0.008 | 0.008 | 15 | 7.562 | 0.000 | 0.000 | 0.009 | 0.009 | 6 | 20.01 | 0.000 | 0.000 | 0.009 | 0.009 | 16 |
| **15** | 24.91 | 0.000 | 0.000 | 0.009 | 0.009 | 19 | 6.689 | 0.000 | 0.000 | 0.008 | 0.008 | 5 | 19.15 | 0.000 | 0.000 | 0.009 | 0.009 | 15 |
| **16** | 19.70 | 0.000 | 0.000 | 0.010 | 0.010 | 18 | 5.926 | 0.000 | 0.000 | 0.006 | 0.006 | 3 | 17.84 | 0.000 | 0.000 | 0.091 | 0.091 | 140 |
| **17** | 19.45 | 0.000 | 0.000 | 0.006 | 0.006 | 9 | 6.401 | 0.000 | 0.000 | 0.008 | 0.008 | 4 | 15.23 | 0.000 | 0.000 | 0.009 | 0.009 | 11 |
| **18** | 17.29 | 0.000 | 0.000 | 0.010 | 0.010 | 15 | 4.572 | 0.000 | 0.000 | 0.009 | 0.009 | 4 | 14.08 | 0.000 | 0.000 | 0.009 | 0.009 | 11 |
| **19** | 15.18 | 0.000 | 0.000 | 0.009 | 0.009 | 12 | 5.139 | 0.000 | 0.000 | 0.008 | 0.008 | 4 | 11.61 | 0.000 | 0.000 | 0.008 | 0.008 | 8 |
| **20** | 12.24 | 0.000 | 0.000 | 0.010 | 0.010 | 11 | 54.49 | 0.000 | 0.000 | 0.009 | 0.009 | 42 | 9.121 | 0.000 | 0.000 | 0.008 | 0.008 | 6 |
| **21** | 13.24 | 0.000 | 0.000 | 0.012 | 0.012 | 13 | 4.544 | 0.000 | 0.000 | 0.009 | 0.009 | 3 | 7.562 | 0.000 | 0.000 | 0.008 | 0.008 | 5 |
| **22** | 12.63 | 0.000 | 0.000 | 0.011 | 0.011 | 12 | 2.757 | 0.000 | 0.000 | 0.010 | 0.010 | 2 | 6.972 | 0.000 | 0.000 | | | |
| **23** | 12.37 | 0.000 | 0.000 | 0.008 | 0.008 | 9 | 4.528 | 0.000 | 0.000 | 0.007 | 0.007 | 3 | 5.720 | 0.000 | 0.000 | 0.009 | 0.009 | 4 |
| **24** | 13.04 | 0.000 | 0.000 | 0.007 | 0.007 | 8 | 5.585 | 0.000 | 0.000 | 0.008 | 0.008 | 4 | 5.115 | 0.000 | 0.000 | 0.009 | 0.009 | 4 |
| **25** | 11.16 | 0.000 | 0.000 | 0.007 | 0.007 | 7 | 5.362 | 0.000 | 0.000 | 0.008 | 0.008 | 4 | 4.976 | 0.000 | 0.000 | 0.007 | 0.007 | 3 |
| **26** | 5.182 | 0.000 | 0.000 | 0.007 | 0.007 | 3 | 6.419 | 0.000 | 0.000 | 0.007 | 0.007 | 4 | 2.103 | 0.000 | 0.000 | 0.007 | 0.007 | 1 |
| **27** | 4.571 | 0.000 | 0.000 | 0.008 | 0.008 | 3 | 5.599 | 0.000 | 0.000 | 0.009 | 0.009 | 4 | 3.087 | 0.000 | 0.000 | 0.009 | 0.009 | 2 |
| **28** | 5.587 | 0.000 | 0.000 | 0.008 | 0.008 | 4 | 5.833 | 0.000 | 0.000 | 0.011 | 0.011 | 5 | 3.449 | 0.000 | 0.000 | 0.009 | 0.009 | 3 |
| **29** | 5.918 | 0.000 | 0.000 | 0.008 | 0.008 | 4 | 6.785 | 0.000 | 0.000 | 0.007 | 0.007 | 4 | 3.425 | 0.000 | 0.000 | 0.009 | 0.009 | 3 |
| **30** | 5.831 | 0.000 | 0.000 | 0.008 | 0.008 | 4 | 8.554 | 0.000 | 0.000 | 0.008 | 0.008 | 6 | 4.962 | 0.000 | 0.000 | 0.008 | 0.008 | 3 |
| **31** | 6.181 | 0.000 | 0.000 | 0.007 | 0.007 | 4 | | | | | | | 5.242 | 0.000 | 0.000 | 0.006 | 0.006 | 3 |
| **Ten Daily Mean** | | | | | | | | | | | | | | | | | | |
| **Ten Daily I** | 26.54 | 0.000 | 0.000 | 0.008 | 0.008 | 20 | 8.967 | 0.000 | 0.000 | 0.010 | 0.010 | 8 | 13.49 | 0.000 | 0.000 | 0.009 | 0.009 | 10 |
| **Ten Daily II** | 19.81 | 0.000 | 0.000 | 0.009 | 0.009 | 15 | 10.82 | 0.000 | 0.000 | 0.009 | 0.009 | 8 | 16.54 | 0.000 | 0.000 | 0.017 | 0.017 | 25 |
| **Ten Daily III** | 8.700 | 0.000 | 0.000 | 0.008 | 0.008 | 6 | 5.597 | 0.000 | 0.000 | 0.008 | 0.008 | 4 | 4.783 | 0.000 | 0.000 | 0.008 | 0.008 | 3 |
| **Monthly** | | | | | | | | | | | | | | | | | | |
| **Total** | | | | | | 419 | | | | | | 200 | | | | | | 384 |

**Annual Sediment Load (Metric Tonnes) : 18266**

**Annual Sediment Load for the period: 1979-2016**

**Station Name : MURAPPANADU ( CT000H9)**
**Local River : Tambraparani**

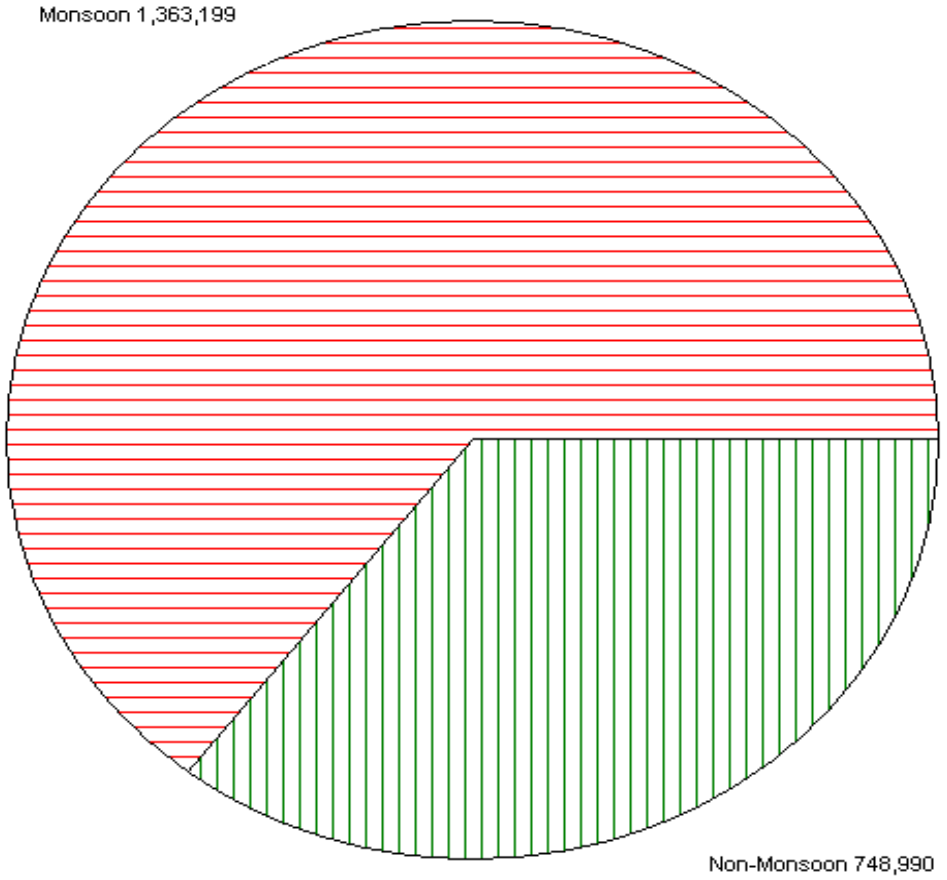
**Division : SR Division, Coimbatore**
**Sub-Division : Vaigai SD Madurai**



**Seasonal Sediment Load for the period : 1979-2015**

**Station Name : MURAPPANADU ( CT000H9)**
**Local River : Tambraparani**

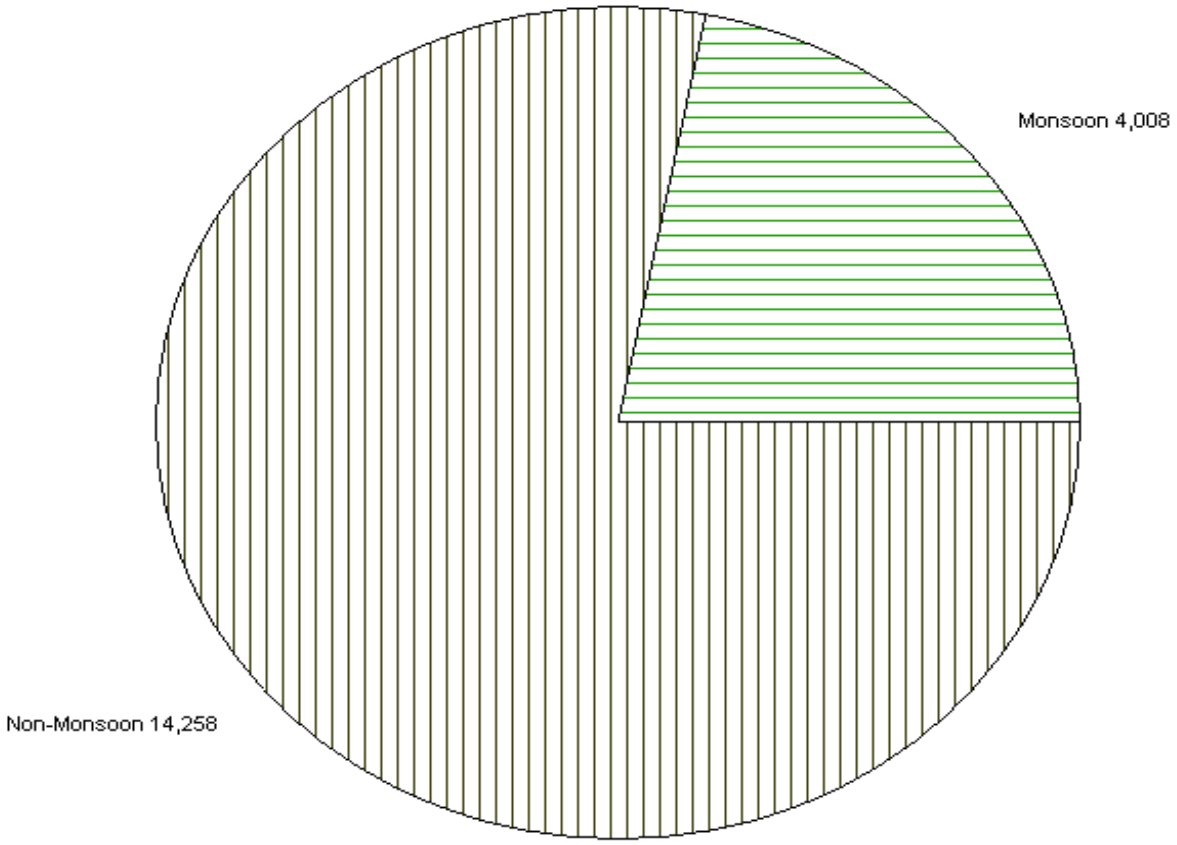
**Division : SR Division, Coimbatore**
**Sub-Division : Vaigai SD Madurai**



**Seasonal Sediment Load for the Year: 2015-2016**

**Station Name : MURAPPANADU ( CT000H9)**
**Local River : Tambraparani**

**Division : SR Division, Coimbatore**
**Sub-Division : Vaigai SD Madurai**



# BED MATERIAL ANALYSIS DATA

**RIVER : Tambraparani** **CODE No. : CT000H9**

**SITE : Murappanadu** **CROSS SECTION : SGL**

| Sl.No. | DATA FOR SAMPLE COLLECTED | | | | | | | | | | GENERAL DATA OF THE RIVER | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | R.D.(m) | R.L. OF DRY BED (m) | R.L. OF BED LEVEL (m) | W.L.(GTS) OF THE SAMPLING DEPTH (m) | DEPTH OF WATER (m) | WIDTH (m) | VELOCITY (m/s) | DISCHARGE ($m^3/s$) | Bed Material Composition | | WETTED PERIMETER (m) | HYDRAULIC MEAN DEPTH (m) | MEAN VELOCITY (m/s) | SURFACE WATER SLOPE | DISCHARGE ($m^3/s$) | Bed Material Composition | |
| | | | | | | | | | MAX SIZE (mm) | MEAN SIZE (mm) | | | | | | MAX SIZE (mm) | MEAN SIZE (mm) |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| | MONSOON 2015 | | | | **DATE OF COLLECTION** | | | | | | **12/10/2015** | | | | | | |
| 1 | 75 | 15.025 | - | - | - | 75.0 | - | - | 15.0 | 1.83 | | | | | | | |
| 2 | 150 | - | 14.150 | 15.280 | 1.13 | 75.0 | - | - | 16.0 | 2.25 | | | | | | | |
| 3 | 230 | 15.190 | - | - | - | 80.0 | - | - | 8.0 | 0.93 | | | | | | | |
| 4 | 300 | 16.715 | - | - | - | 70.0 | - | - | 8.0 | 0.74 | | | | | | | |
| 5 | 380 | 17.500 | - | - | - | 80.0 | - | - | 10.0 | 1.14 | | | | | | | |
| 6 | 450 | 19.600 | - | - | - | 70.0 | - | - | 17.0 | 1.47 | 80.09 | 0.770 | 0.203 | 0.00033 | 13.36 | 17.0 | 1.39 |
| | POST MONSOON 2015 | | | | **DATE OF COLLECTION** | | | | | | **26/02/2016** | | | | | | |
| 1 | 75 | 15.000 | - | - | - | - | - | - | 9.0 | 1.31 | | | | | | | |
| 2 | 150 | - | 14.255 | 15.195 | 0.94 | - | - | - | 16.0 | 1.58 | | | | | | | |
| 3 | 230 | 15.200 | - | - | - | - | - | - | 4.5 | 0.88 | | | | | | | |
| 4 | 300 | 16.770 | - | - | - | - | - | - | 8.0 | 0.61 | | | | | | | |
| 5 | 380 | 17.420 | - | - | - | - | - | - | 17.0 | 1.45 | | | | | | | |
| 6 | 450 | 19.585 | - | - | - | - | - | - | 19.0 | 1.16 | 80.08 | 0.753 | 0.222 | 0.00023 | 13.382 | 19.0 | 1.17 |
| | PRE MONSOON 2016 | | | | **DATE OF COLLECTION** | | | | | | **31/05/2016** | | | | | | |
| 1 | 75 | 14.990 | - | - | - | - | - | - | 8.0 | 1.12 | | | | | | | |
| 2 | 150 | - | 14.255 | 14.975 | 0.72 | - | - | - | 77.0 | 1.62 | | | | | | | |
| 3 | 230 | 15.215 | - | - | - | - | - | - | 8.0 | 0.65 | | | | | | | |
| 4 | 300 | 16.770 | - | - | - | - | - | - | 9.0 | 0.68 | | | | | | | |
| 5 | 380 | 17.415 | - | - | - | - | - | - | 11.0 | 1.36 | | | | | | | |
| 6 | 450 | 19.620 | - | - | - | - | - | - | 15.0 | 0.72 | 70.05 | 0.579 | 0.127 | 0.00025 | 5.242 | 77.0 | 1.03 |

# ABBREVIATIONS AND SYMBOLS

| | | |
|---|---|---|
| Av. | : | Average |
| Cumec. | : | Cubic meter per second |
| Dis. | : | Discharge |
| G | : | Gauge |
| GD | : | Gauge and Discharge |
| GDS | : | Gauge, Discharge and Sediment |
| GDSQ | : | Gauge, Discharge, Sediment & Water Quality |
| G.T.S. | : | Great Trigonometrical Survey |
| Km. | : | Kilometer |
| M.Cum/$Mm^3$ | : | Million Cubic meter |
| M | : | Meter |
| mm | : | Millimeter |
| $M^3/s$ | : | Cubic meter per Second |
| LKD | : | Lower Krishna Division |
| SRD | : | Southern River Division |
| HD | : | Hydrology Division |
| Max. | : | Maximum |
| Min. | : | Minimum |
| m.s.l | : | Mean Sea level |
| Rem.Days | : | Remaining Days |
| R.L. | : | Reduced Level |
| Sec. | : | Second |
| Sq.km | : | Square kilometer |
| W.L. | : | Water Level |
| W.Year | : | Water Year |
| W.Q. | : | Water Quality |
| $^o$ | : | Degree ($30^o$) |
| ′ | : | Minute |
| ″ | : | Second |
| * | : | Estimated Discharge |