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GOVERNMENT OF INDIA
CENTRAL WATER COMMISSION

GODAVARI BASIN
DAILY DISCHARGE DATA (Vol. I)
(JUNE 2015 – MAY 2016)

GODAVARI CIRCLE
HYDERABAD
December 2016

P R E F A C E

India's National Water Policy emphasises the importance of a well-developed information system as the prime requisite for water resources planning, development and management. Reliable and continuous records of water resources data are essential for the optimum development of water resources. Conducting hydrological observations in all-important river basins of India has, therefore, been one of the main activities of the Central Water Commission (CWC).

Hydrological observations of Godavari basin were started by CWC in the early 1960's and the discharge data in the form of Water Year Book had been published since then. This water year book contains discharge data for the year 2015-16 (June 2015 to May 2016) collected at 49 hydrological stations maintained by CWC in Godavari basin.

Apart from the daily discharge, the ten daily and monthly summaries of the discharges, Histogram-Hydrograph, Annual runoff bar chart from inception, graph showing the percentage of maximum, minimum and average monthly runoff from inception and current year monthly runoff, superimposed pre-monsoon and post-monsoon cross sections, water level hydrograph of the highest observed flood peaks during the year at these sites have also been included in the data sheets.

Basic details about the site, like the name of the tributary on which the site is located, the latitude and longitude of the site, the catchment area upto the site, the date of commencement of observations, annual maximum and minimum discharges observed from inception of site are shown in history sheet.

Three field divisions of CWC, viz., Upper Godavari Division and Lower Godavari Division with headquarters at Hyderabad under the control of Godavari Circle and Wainganga Division with headquarter at Nagpur under the control of Superintending Engineer (Co-ordination), Nagpur are responsible for the maintenance of the hydrological stations in Godavari basin. The efforts put forth by the officers and staff of these field offices in bringing out this Water Year Book is acknowledged.

Hyderabad
December - 2016

(O.R.K.REDDY)
Superintending Engineer
Godavari Circle

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1. INTRODUCTION

1.1 Godavari River System

The river Godavari, the largest of the peninsular rivers, and third largest in India, drains about 10% of India's total geographical area. The catchment area of the river is 3,12,812 sq.km. and is spread in the states of Maharashtra (48.6%), Andhra Pradesh (23.4%), Madhya Pradesh (10.0%), Chhattisgarh (10.9%), Orissa (5.7%) and Karnataka (1.4%). The basin lies in the Deccan plateau and is situated between latitude 16^0 16' 00" North and 22^0 36' 00" North and longitude 73^0 26' 00" East and 83^0 07' 00" East.

The river Godavari rises at an elevation of 1,067 m in the Western Ghats near Thriambak Hills in the Nasik district of Maharashtra. After flowing for about 1,465 km., in a generally south-east direction, it falls into the Bay of Bengal.

About 64 km. from its source, the Godavari receives the waters from Dharna, on its right bank and a short distance down stream the Kadana joins it from the left. The combined waters of the Pravara and Mula which rise in the hills of Akola join the river from left about 217 km. from its source. About 338 km. from its source, the river receives the combined waters from the Purna and Dudhna rivers and after a further 138 km. at the border of Maharashtra and Andhra Pradesh, the waters of the Manjira river joins it from the South. At this point, Godavari flows at an elevation of about 329 m.

The river Pranhita, conveying the combined waters of Penganga, the Wardha and Wainganga, which drain Nagpur and southern slopes of the Satpura ranges, falls into Godavari about 306 km. below its confluence with the Manjira. The waters of the Indravathi join the river Godavari 48 Km down stream. The last major tributary is the Sabari from Orissa, which joins the Godavari, 100 km. up-stream of Rajahmundry.

The largest tributary of the Godavari is the Pranhita with about 34.87% coverage of drainage area. The Pravara, Manjira and Maner are right bank tributaries covering about 16.14%, the Purna, Pranhita, Indravathi and Sabari are important left bank tributaries, covering nearly 59.7% of the total catchment area of the basin. The Godavari in the upper, middle, and lower reaches make up for the balance 24.16%. The particulars of the catchment area, length,

elevation of the source points of the river and its tributaries in the order of their occurrence along the length of the main river are indicated in the Table-1.

Table - 1 Important Tributaries of Godavari

Sl.No	Name of the River	Elevation of Source	Length of Tributary (km)	Catchment area (sq.km.)	Average annual rainfall (mm)
1	Upper Godavari (source to Manjira confluence)	1,067	675	33502	770
2	Pravara	1,050	208	6537	606
3	Purna	838	373	15579	797
4	Manjira	823	724	30844	846
5	Middle Godavari (between confluence points Manjira and Pranhita)	323	328	17205	955
6	Maner	533	225	13106	932
7	Penganga	686	676	23898	960
8	Wardha	777	483	24087	1055
9	Pranhita	640	721	61093	1363
10	Lower Godavari (Pranhita confluence to sea)	107	462	24869	1208
11	Indravati	914	535	41665	1588
12	Sabari	1,372	418	20427	1433
	Total			312812	12513

1.2 Rainfall pattern in the basin.

The Godavari basin receives its maximum rainfall during the Southwest monsoon. The monsoon currents strike the West Coast of the peninsula from West and South-West, meet the Western Ghats or Sahyadri Range which present almost an uninterrupted barrier ranging from 600 m. to 2100 m. in height. Before surmounting this barrier the currents deposit most of their moisture on its windward side, and then sweep across the interior of the peninsula on the Easterly course. Rainfall is governed largely by the orography of the area, which leads to variation in the amount of precipitation. In crossing the Ghats, the monsoon wind loses a large part of their moisture. The monsoon currents follow the Eastward slope of the country from the crest of the Ghats, which form the watershed. Conditions in the interior are, therefore, somewhat unfavorable for heavy precipitation except in association with the depression from the Bay of Bengal. The north-east part of the Godavari basin also receives some rain in association with monsoon depressions, which move west-north-west across the Orissa coast.

The Godavari receives the drainage from a length of about 129 km. of the high rainfall zone in the Western Ghats. The annual rainfall varies from 1,000 to 3,000 mm in this reach. East

of the western ghats, the rainfall decreases rapidly to less than 600 mm. There is a belt some distance East of the Western Ghats and in width varying from about 80 km. in the South to about 97 km. in the North with less than 600 mm, of normal annual rainfall. The belt which is about 10,360 sq.km. in area, includes portions of Aurangabad and Ahmednagar districts of Maharashtra. After this area the rainfall again gradually increases to about 900 mm towards the East coast.

Rainfall in this year almost entirely nil in the upper regions of Godavari basin, remaining parts of Godavari basin i.e., lower reaches received rainfall in the month of June, August, September, November and December 2015. The Godavari basin as a whole receives 84% of the annual rainfall on an average, during the Southwest monsoon, which sets in mid June and ends by mid October.

1.3 Water Resources Development in the Basin

The water resources potential in Godavari basin has been assessed to be 110.54 km^3 and out of this 76.3 km^3 is utilisable. There is a vast potential for irrigation development and hydropower generation in the basin.

Prior to independence only a few irrigation projects were constructed in Godavari basin. Important among these are Godavari delta system (with Dowlaiswaram weir as head works), Nizamsagar reservoir, Kadana dam and Pravara dam. After independence, under various five-year plans a large number of multi-purpose and irrigation projects have been taken up. The most important among them are the Jaikwadi, Sriramsagar, Kadam, Upper Indravati, Singur and Godavari Barrage (by modernising the existing gated weir at Dowlaiswaram).

Since the mid-1960's, the Central Water Commission is conducting hydrological observations in Godavari basin. Hydrological observation stations have been established on main Godavari river as well as on all the important tributaries. During the year 2015-16, hydrological observations at 49 stations have been under operation. Out of 49 stations, 8 stations are on the main Godavari and the remaining 41 are on its tributaries. In addition to gauge and discharge observations, sediment load at 16 stations and water quality monitoring at 18 stations are also being done. The location of the hydrological observation sites is shown in the basin map. The newly opened 3 GD sites discharge observations not conducted regularly and the data not entered in SWDES; hence the data is not included in this report.

The daily discharge data at the 49 stations in Godavari basin for the year 2015-16 are presented in this Year Book. Sediment and water quality data are presented in separate Suspended Sediment Year Book (Volume II) and Water quality Year Book (Volume III) respectively. Bed material analysis is also included in Sediment water year book.

The hydrological observation stations in the Godavari basin are under the control of three field divisions of Central Water Commission. Upper Godavari Division with head quarters at Hyderabad maintains 12 stations in the upper catchment of Godavari and 19 stations in the Indravathi, Sabari sub-basins and in the Lower Godavari catchment is maintained by the Lower Godavari Division with head quarters also at Hyderabad. These two divisions are under the control of Godavari Circle at Hyderabad. The remaining 18 stations mostly in the Pranhita sub-basin are maintained by Wainganga Division with head quarters at Nagpur, which is under the control of Superintending Engineer (Co-ordination) at Nagpur.

1.4 Observation Techniques

The standard methods being adopted for collecting data are explained briefly below.

1.4.1 Gauge Observation

Water level or stage of the river is measured as its elevation above MSL datum. Water level measurement is done by reading non-recording gauges. Series of vertical staff gauges are fixed at three sections at every site. Enameled gauge plates with metric unit markings are fixed on the gauge posts so that gauges can be read up to three decimals. Out of the three gauging lines, the central one is used as station gauge line and readings of the other two lines are used for calculation of water slope. During monsoon season, gauges are read hourly at the station gauge line. During non-monsoon season gauges are read thrice daily at 0800 hours, 1300 hours and 1800 hours.

1.4.2 Discharge Observation

Discharge observations are conducted once a day at 0800 hours by area-velocity method on all days except on Sunday and holiday.

The river width is generally divided into 15 to 25 segments based on the degree of accuracy as outlined in IS: 1192-1981. The width of the river is measured by steel/metallic tape or wire rope stretched across the river with segment markings indicated thereon, when the river width is quite small and the flow depths permit wading. For larger widths of above 500 ft with deeper flow conditions as in floods, pivot point method is used for aligning the Boats / Launches at the desired R.Ds in the station gauge line.

The depth measurements are carried out by using sounding rod for depths up to 3 metre and by using long bamboo for depths between 3 metre and 6 metre. For depths exceeding 6 metre sounding reel measurements at segment points are resorted to, and in impracticable situations the depths are measured by echo sounder or computed from the most recent cross-sections of the river.

The velocity is measured as per IS 3918 - 1966 by using a cup type current meter conforming to IS 3910 - 1992. The current meter is lowered to the requisite depth i.e. 0.6 of total depth down the vertical at every segment point by suspension equipment as specified in IS: 6064 - 1971 and where the depth is less than 0.3 metre, the velocity is observed just below the water surface.

At medium and high stages with significant flow velocities, boats fitted with power engines are used. At some stations cableway has been established for navigating the boat. At cableway stations, no power engines are required for the boats. Measurements of velocity are some times carried out from road bridges, wherever feasible, when it becomes difficult to keep the boat stable for velocity observations due to the river flow conditions. When none of the above procedures is possible, float observation is resorted to.

The data observed as above at the site is entered in the prescribed standard forms to compute the total river discharge and it is then computerized using Surface Water Data Entry System (SWDES) software at each Sub-divisional data processing centre. After Primary validation at division level, the data is processed & finalized in Regional data processing centre using the HYMOS software.

1.4.3 Computation of discharge for non-observed days

The stages and corresponding discharges measured during each season (monsoon or non-monsoon) are exported to HYMOS from SWDES. Stage-Discharge curve will be generated in HYMOS giving weightage to all the observation points and discarding such observations which appear inaccurate. The S-D curve for the current season is then finalized such that it is free from bias and passes all the goodness of fit tests. It is also compared by superimposition with the previous year's S-D curve and shift, if any, of the current year's curve is studied with reference to changes in the river cross-section and using the stage-area and stage-velocity diagrams for verification. On satisfactory conclusion of the appropriateness of the shift, the S-D curve of the current season is finalized and used for computation of discharge from the rating curve against 0800 hours water level for non observed days and for the discarded points.

1.5 Explanatory Notes

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

i. Water year commences from 1st of June of a calendar year and extends to 31st of May of the next calendar year.

ii. Discharges given are daily-observed flows. For non-observations days, discharges are estimated against 0800 hours gauge reading in cubic metre per second (cumec).

iii. The zero RL of gauge is a reference point datum level fixed for each site and is kept 1 or 2 metre lower than the lowest water level of a perennial stream. In a non-perennial stream, it is kept 1 metre lower than the bed level of the stream.

iv. Discharge is rounded off to
   a) Nearest full integer when it exceeds 1000 cumec.
   b) Nearest first decimal value when it is between 100-999 cumec.
   c) Nearest second decimal value when it is between 10-99 cumec.
   d) Nearest third decimal value when it is less than 10 cumec.

v. Maximum and minimum discharges (observed / computed) of the month are taken from daily discharges.

vi. Run-off in millimetres (mm) is the notional depth of water over the drainage area up to the discharge measurement station converted as equivalent to the calculated Annual run-off, which is computed using the following relation.

Annual run-off (Million cubic metre)* 1000

$$\text{Run-off (mm)} = \frac{\text{Volume (cum)}}{\text{Catchment area (sq.km)}}$$

vii. The peak and the lowest discharge on record correspond to the measuring time (Discharge measuring time is generally from 08.00 hours to the end of discharge measurement) and are not corresponding to absolute peak and lowest observed water

viii. The gauging site's code number is a unique seven-column alphanumeric reference number, which facilitates storage and retrieval of flow data in data banks. The first character is identifier of either an integral river basin or for convenience a region having several contiguous river catchments. This is followed by a character, which identifies an independent river system, which either has one or more outlets to the sea or crosses international border to enter another country. The third, fourth and fifth character denotes first, second and third order of tributaries respectively from the sea/international boundary moving upstream. The sixth and seventh characters indicate the location of gauging site earmarked on the river. Blank spaces, if any, are filled by zeros.

1.6 Highest Flood level of the year:-

Highest Flood level occurred with date and time of occurrence and corresponding discharge has been introduced in History sheet of each site from this year.

1.7 Interpretation of Graphical representations

Histogram-Hydrograph, Bar Chart and a pie diagram etc; are automatically generated by the software based on the data entered, which are briefly interpreted below.

i. **Histogram-Hydrograph:** This graphical representation reveals (a) Maximum discharge historical, which means, highest discharge observed, on a day, in each month of water year, in the entire period of available data. (b) Similarly minimum historical discharge means, lowest discharge observed, on a day, in each month of water year, in the entire period of available data. (c) Mean discharge-Historical means, average value of discharge, for each month, in a water year, for the entire period of available data including current year. (d) Mean discharge current year means, average value of daily discharge in each month, in current water year. Therefore this graph represents maximum, minimum discharge observed on a day and mean of each month discharge for all years for which data is available and comparing these values with current year monthly mean values.

ii. **Bar chart of Runoff:** This is the graphical representation of annual runoff of each water year, for all years of available data, including current year, in million cubic meter (MCM) using the following formula.

iii. Daily discharge, in Cubic meter per second X (60 X60X24/ 1000000) = Runoff of the day in MCM.

iv. Sum of daily Run off, in a year, gives annual runoff. This chart compares annual run off of each year at a site for all years of available data.

v. **Pie Diagrams:** Pie diagram of monthly average runoff represents average percentage of annual run off, for each month of water year, of all years, for which data is available including current year. Similarly current year pie diagram represents percentage of annual runoff of each month in current water year. This representation shows monthly contribution of water yield, in annual runoff, at a particular site. The monthly run off may vary from one site to another site depending up on rain fall at upstream in that region.

vi. **Superimposed cross section:** The profile of river bed along standard discharge section is recorded, at on set and off set of monsoon at each site and superimpose the same, to find out cross sectional variations of river bed.

vii. **E) Water level Vs Time Charts:** At each site 3 highest peak floods have been represented by these charts, showing water level ,date and time of occurrence with a time span of 72 hours (3 days) for each flood.

1.8 Method of presentation

Site-wise hydrological data history sheets, flow tables and pictorial summary is presented in this volume. The serial order of hydrological stations is arranged along the river moving upstream from the sea or confluence with main river /international boundary towards its source, giving due priority to sites on intermediate tributary in similar way.

The flow tables indicate the following.

a) Daily discharges (in cumec)
b) Ten-daily mean discharges (in cumec)
c) Monthly mean discharge (in cumec)
d) Monthly maximum and Minimum discharges (in cumec)
e) Annual Run-off (in M.cum and mm)

GODAVARI BASIN

Not To Scale

HISTORY SHEET

			Water Year	:	**2015-2016**
Site	:	**Polavaram**	**Code**	:	**AG000C3**
State	:	Andhra Pradesh	District		West Godavari
Basin	:	Godavari	Independent River	:	Godavari
Tributary	:	-	Sub Tributary	:	-
Sub-Sub Tributary	:	-	Local River	:	Godavari
Division	:	Lower Godavari Div., Hyderabad	Sub-Division	:	Lower Godavari 2, Rajahmundry
Drainage Area	:	307800 Sq. Km.	Bank	:	Right
Latitude	:	17°15'07"	Longitude	:	81°38'53"
Zero of Gauge (m)	:	10.897 (m.s.l)	03.07.1964		
		Opening Date	Closing Date		
Gauge	:	01.01.1966	**HFL During 2015-16**	:	**22.837**
			Corres. Discharge	:	**22623.661 Cumes(Estimated)**
Discharge	:	01.01.1966	**Date & Time of**	:	**23.06.2015**
			Occurance	:	**06:00 hrs.**
Sediment	:	25.10.1966			
Water Quality	:	25.10.1966			

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

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1966-1967	29760	25.217	06.09.1966	46.51	12.247	04.06.1966
1967-1968	35161	24.687	05.08.1967	62.28	12.357	12.06.1967
1968-1969	26189	22.427	19.08.1968	51.11	12.387	22.06.1968
1969-1970	35462	25.142	23.09.1969	100.6	12.517	22.05.1970
1970-1971	38701	26.297	23.08.1970	140.7	12.729	01.06.1970
1971-1972	16881	21.745	03.09.1971	46.93	12.282	31.05.1972
1972-1973	27949	23.870	07.07.1972	48.43	12.280	01.06.1972
1973-1974	30564	24.417	28.08.1973	77.53	12.207	01.06.1973
1974-1975	18110	22.270	13.08.1974	97.90	12.467	19.05.1975
1975-1976	39364	25.192	11.09.1975	133.5	13.032	29.05.1976
1976-1977	46299	26.517	23.07.1976	114.1	12.962	14.06.1976
1977-1978	34964	24.442	25.08.1977	115.8	13.287	19.04.1978
1978-1979	38229	25.542	18.08.1978	131.4	13.205	13.06.1978
1979-1980	32864	24.897	07.08.1979	114.3	13.002	25.05.1980
1980-1981	29468	24.075	05.08.1980	118.1	13.007	02.06.1980
1981-1982	43841	25.922	13.08.1981	156.3	12.957	15.05.1982
1982-1983	15247	21.817	19.08.1982	115.4	12.767	06.05.1983
1983-1984	40716	26.627	15.08.1983	128.5	12.832	18.06.1983
1984-1985	19943	22.702	04.08.1984	125.9	13.422	14.05.1985
1985-1986	16442	21.957	15.08.1985	89.91	13.322	04.06.1985
1986-1987	57311	28.017	16.08.1986	111.6	13.112	12.06.1986

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**
1987-1988	15169	21.705	11.07.1987	74.88	13.297	25.05.1988
1988-1989	43506	25.525	30.07.1988	69.03	13.177	08.06.1988
1989-1990	35936	24.477	27.07.1989	136.2	13.777	09.06.1989
1990-1991	61658	27.277	25.08.1990	314.0	14.657	26.05.1991
1991-1992	29469	23.637	19.08.1991	138.3	13.997	30.05.1992
1992-1993	39003	24.967	17.08.1992	123.9	13.917	16.06.1992
1993-1994	19062	21.832	06.08.1993	83.90	13.697	31.05.1994
1994-1995	43105	26.002	07.09.1994	69.05	13.627	03.06.1994
1995-1996	35259	24.912	23.10.1995	356.2	13.707	29.05.1996
1996-1997	11290	20.317	23.07.1996	184.1	13.297	11.06.1996
1997-1998	13266	21.117	03.08.1997	142.7	12.902	13.06.1997
1998-1999	16477	22.082	18.09.1998	87.27	13.167	28.05.1999
1999-2000	22714	22.987	09.08.1999	78.35	13.147	06.06.1999
2000-2001	35217	25.297	31.08.2000	55.11	13.287	23.04.2001
2001-2002	33764	24.967	23.08.2001	65.20	13.527	01.06.2001
2002-2003	29786	24.127	27.08.2002	56.84	12.597	13.05.2003
2003-2004	25862	24.342	28.07.2003	49.42	12.637	13.06.2003
2004-2005	18725	21.742	04.08.2004	227.2	13.067	16.04.2005
2005-2006	43703	25.897	21.09.2005	183.9	13.307	27.06.2005
2006-2007	52811	27.297	07.08.2006	220.4	13.347	07.05.2007
2007-2008	47249	24.712	10.08.2007	93.83	13.227	27.05.2008
2008-2009	26975	23.957	08.08.2008	34.00	13.127	01.05.2009
2009-2010	11249	20.217	29.08.2009	74.63	13.772	03.06.2009
2010-2011	39047	25.707	09.08.2010	94.94	13.847	09.06.2010
2011-2012	23943	23.502	03.09.2011	156.1	13.247	28.04.2012
2012-2013	26290	23.692	07.09.2012	167.1	13.787	16.06.2012
2013-2014	38328	26.087	04.08.2013	155.8	14.377	16.12.2013
2014-2015	34000	25.007	09.09.2014	154.8	13.997	02.03.2015

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

Stage-Discharge Data for the period 2015 - 2016

Station Name : Polavaram (AG000C3) **Division : Lower Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Lower Godavari 2, Rajahmundry**

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	13.857	221.8	16.362	2868	16.302	2628	19.047	7523	16.317	2575	14.387	534.4 *
2	13.867	223.4	16.097	2690	15.907	1861 *	18.767	6904	16.107	2107 *	14.397	515.9
3	13.887	243.2	15.992	2593	15.662	1712	18.897	6963	16.002	2178	14.397	511.6
4	13.857	277.7 #	15.812	2070	15.472	1436	18.677	6767	15.827	1767 *	14.357	509.5
5	13.837	269.9 #	15.677	1599 *	15.347	989.9	18.230	5875	15.652	1695	14.347	508.9
6	13.857	277.7 *	15.530	1496	15.217	938.7	17.757	4853 *	15.577	1494	14.347	505.9
7	13.917	302.0 *	15.405	1144	15.087	953.0	17.317	4272	15.512	1452	14.407	520.3
8	13.937	243.3	15.347	1126	15.017	971.9 *	16.982	3735	15.397	1311 *	14.357	517.2 *
9	14.017	286.7	15.227	1006	14.997	955.6 *	16.797	3408	15.277	1126	14.337	491.0
10	14.047	301.2	15.115	892.6	17.900	5812	16.487	3134	15.237	1161 *	14.337	484.9
11	14.067	306.4	15.047	900.8	17.637	4886	16.302	2592	15.207	1134 *	14.247	457.1 *
12	14.087	322.6	14.937	907.9 *	17.802	5267	16.207	2237 *	15.107	1003	14.257	473.1
13	14.037	292.9	14.880	780.3	17.577	4552	16.127	2133 *	15.000	901.6	14.197	463.4
14	13.997	336.2 *	14.862	779.2	18.350	6403	16.552	3172	14.917	863.5	14.217	468.1
15	14.097	338.4	15.020	819.4	19.247	8522 *	16.455	3008	14.885	795.9	14.187	426.1 *
16	14.312	482.5	15.067	944.3	20.017	10897 *	16.702	3425	14.827	759.4	14.177	442.4
17	14.547	577.0	15.172	983.8	21.507	15083	17.987	5343 *	14.817	744.7	14.177	439.8
18	14.587	637.0	15.237	1161 *	20.377	11957	18.617	6549	14.807	809.2 *	14.167	372.8
19	15.882	1831 #	15.297	1216 *	19.380	8966	20.192	11405	14.792	735.7	14.167	364.4
20	17.622	4578 #	15.327	1283	18.737	6315	21.997	18613 *	14.712	680.8	14.157	341.8
21	20.407	12230 *	15.367	1310	18.072	5135	22.575	20126	14.667	638.4	14.187	361.6
22	21.822	20877	15.532	1524	17.822	5097	21.365	14889	14.717	744.8 *	14.157	411.1 *
23	22.822	22433	15.882	2177	17.787	4915 *	20.500	11915	14.682	658.6	14.137	337.1
24	22.142	21016	16.125	2513	17.512	4211	19.667	9300	14.637	690.0 *	14.107	350.0
25	20.512	12177	16.757	3033 #	17.292	3915	18.897	7552 *	14.607	670.1 *	14.067	367.9 *
26	19.015	7611	16.997	3425 *	17.002	3554	18.095	5352	14.595	628.3	14.037	327.9
27	18.027	4950	17.315	4590	16.617	3133	17.687	4709 *	14.537	596.2	14.037	320.8
28	17.647	4628 *	17.012	4295	16.397	2770	17.340	4119	14.507	567.4	14.097	327.7
29	16.947	3339	17.217	4399	16.870	3546	16.902	3436	14.450	548.6	14.037	354.1 *
30	16.562	2955	17.087	3999	16.837	3161 *	16.570	2907	14.407	526.4	14.047	323.9
31			16.797	3097 *	17.887	5443			14.405	517.9		
Daily Mean												
Ten-Dai	13.908	264.7	15.656	1748	15.691	1826	17.896	5343	15.691	1687	14.367	510.0
Ten-Dai	14.723	970.2	15.085	977.6	19.063	8285	17.714	5848	14.907	842.8	14.195	424.9
Ten-Da	19.590	11222	16.553	3124	17.281	4080	18.960	8431	14.564	617.0	14.091	348.2
Monthly												
Min.	13.837	221.8	14.862	779.2	14.997	938.7	16.127	2133	14.405	517.9	14.037	320.8
Max.	22.822	22433	17.315	4590	21.507	15083	22.574	20126	16.317	2575	14.407	534.4
Mean	16.074	4152	15.790	1988	17.343	4709	18.190	6541	15.038	1035	14.218	427.7

Annual Runoff in MCM = 52791 Annual Runoff in mm = 172

Peak Observed Discharge = 22433 cumecs on 23/06/2015 Corres. Water Level :22.822 m

Lowest Observed Discharge = 102.0 cumecs on 21/04/2016 Corres. Water Level :13.207 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 : Polavaram (AG000C3) **Division : Lower Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Lower Godavari 2, Rajahmundry**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	14.017	321.5	13.827	248.9	13.627	189.0	13.657	218.2	13.387	138.0	13.467	147.6 *
2	14.017	345.1 *	13.827	234.1	13.657	189.3	13.647	207.5	13.387	139.7	13.467	154.0
3	13.977	327.4 *	13.827	266.0 *	13.667	209.8	13.647	216.6	13.407	131.7 *	13.447	149.3
4	13.957	287.5	13.837	231.4	13.677	218.1	13.647	230.4	13.387	137.8	13.457	149.5
5	13.967	298.6	13.807	258.2	13.647	206.2	13.667	253.6	13.427	145.0	13.477	142.0
6	13.967	323.1 *	13.777	232.3	13.637	195.0	13.707	222.1 *	13.467	156.3	13.497	146.8
7	13.927	280.9	13.777	228.8	13.637	198.5 *	13.727	235.5	13.487	159.3	13.517	161.7 #
8	13.897	273.4	13.767	225.7	13.647	210.1	13.797	251.5	13.467	147.6 *	13.517	161.7 *
9	13.877	268.0	13.757	227.5	13.647	207.1	13.867	289.3	13.437	139.6 *	13.517	161.7 #
10	13.837	288.7	13.717	225.6 *	13.647	201.6	13.817	260.3	13.417	134.3 *	13.517	161.7 #
11	13.877	311.1	13.687	217.5	13.677	215.1	13.837	273.1	13.417	138.5	13.527	164.6 #
12	13.877	280.8	13.682	198.5	13.677	212.9	13.807	258.3 *	13.362	131.1	13.507	158.8 #
13	13.907	297.8 *	13.667	194.6	13.697	218.6 *	13.747	236.2 *	13.357	119.3 *	13.507	158.8 #
14	13.917	324.9	13.697	228.2	13.687	215.2 *	13.767	263.0	13.447	142.2 *	13.507	158.8 *
15	13.887	317.5	13.727	229.1 *	13.707	236.7	13.767	254.9	13.437	139.6 *	13.507	158.8 *
16	13.897	255.2	13.637	203.0	13.687	213.1	13.737	242.6	13.367	121.7 *	13.537	167.6 #
17	13.977	328.9	13.627	195.3 *	13.687	217.8	13.687	218.8	13.337	114.5 *	13.557	173.5 *
18	13.897	275.4	13.627	191.1	13.687	210.4	13.727	231.5	13.287	117.7	13.557	173.5 *
19	13.897	285.7	13.627	189.5	13.687	212.7	13.687	216.1	13.267	98.63 *	13.647	201.8 *
20	13.887	289.7 *	13.637	201.6	13.707	232.2	13.637	198.5 *	13.247	94.34 *	13.627	195.3 *
21	13.867	281.4	13.637	208.7	13.657	205.1 *	13.657	208.5	13.207	102.0	13.497	156.0 *
22	13.917	312.2	13.637	201.3	13.637	203.5	13.617	199.8	13.217	106.4	13.497	156.0 *
23	13.917	312.5	13.637	200.3	13.657	213.1	13.627	197.0	13.247	125.5	13.547	170.5 #
24	13.907	297.8 *	13.597	185.8 *	13.737	238.1	13.617	199.6	13.247	94.34 *	13.587	182.7 *
25	13.917	302.0 *	13.577	145.9	13.687	221.0	13.617	192.1 *	13.277	121.3	13.587	182.7 *
26	13.867	289.2	13.597	185.8 *	13.717	228.0	13.577	187.2	13.277	123.2	13.597	185.8 *
27	13.827	266.0 *	13.587	182.3	13.747	244.2	13.557	173.5 *	13.267	121.4	13.597	185.8 #
28	13.837	254.4	13.627	184.3	13.717	225.6 *	13.507	160.4	13.317	124.5	13.647	201.8 #
29	13.787	241.9	13.627	194.9	13.697	229.6	13.487	153.4	13.417	136.2	13.647	201.8 *
30	13.817	254.7	13.667	201.7			13.487	159.9	13.457	144.7	13.697	218.6 #
31	13.787	242.1	13.647	201.8 *			13.437	145.4			13.757	239.8 #
-Daily M												
Ten-Dai	13.944	301.4	13.792	237.8	13.649	202.5	13.718	238.5	13.427	142.9	13.488	153.6
Ten-Da	13.902	296.7	13.661	204.8	13.690	218.5	13.740	239.3	13.353	121.8	13.548	171.2
Ten-Da	13.859	277.7	13.622	190.2	13.695	223.1	13.562	179.7	13.293	120.0	13.605	189.2
Monthly												
Min.	13.787	241.9	13.577	145.9	13.627	189.0	13.437	145.4	13.207	94.34	13.447	142.0
Max.	14.017	345.1	13.837	266.0	13.747	244.2	13.867	289.3	13.487	159.3	13.757	239.8
Mean	13.900	291.5	13.689	210.3	13.677	214.4	13.670	217.9	13.358	128.2	13.549	171.9

Peak Computed Discharge = 18613 cumecs on 20/09/2015 **Corres. Water Level :21.997 m**

Lowest Computed Discharge = 94.34 cumecs on 20/04/2016 **Corres. Water Level :13.247 m**

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

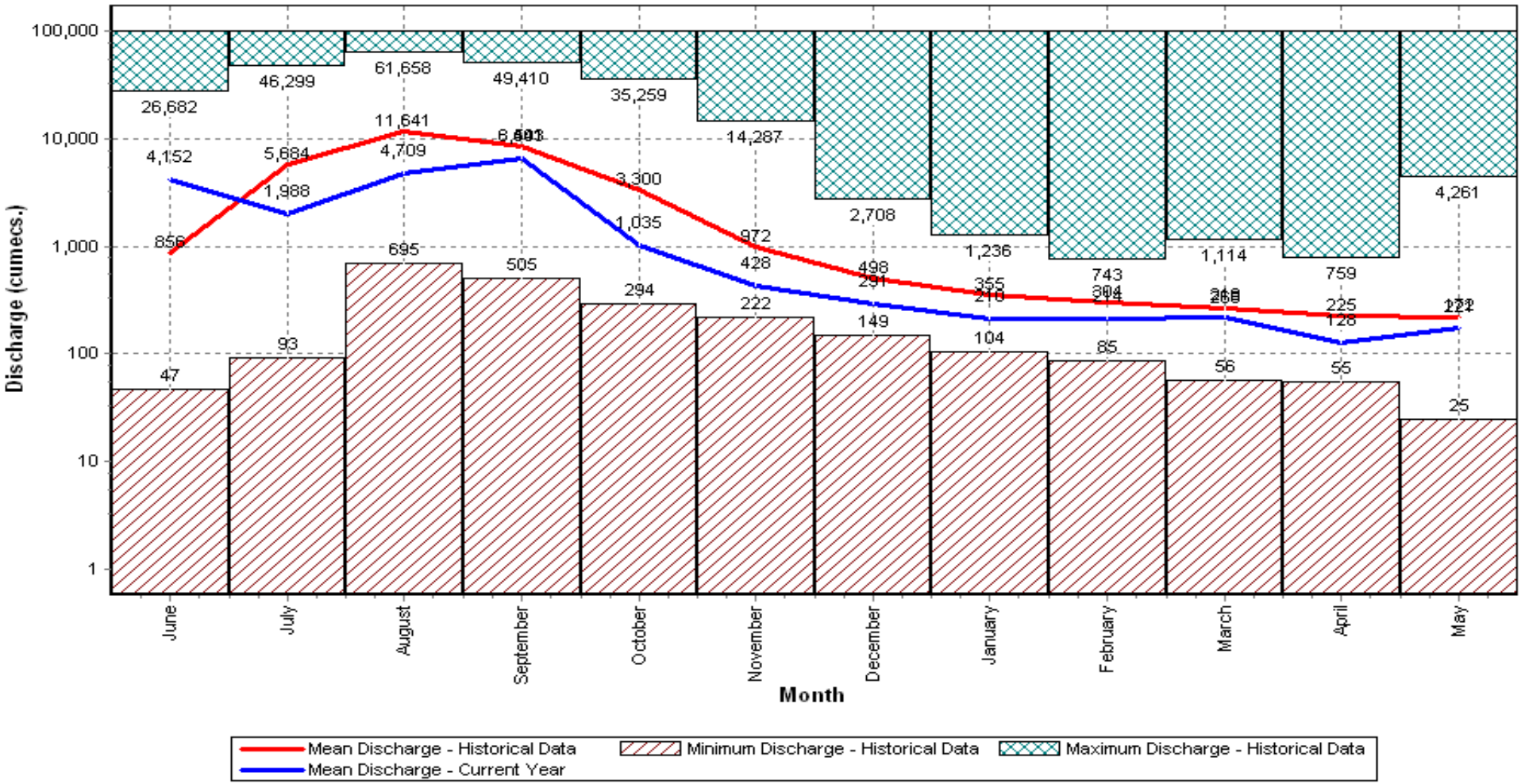
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016

Station Name : Polavaram (AG000C3) | **Data considered : 1966-2016** | **Division : Lower Godavari Div., Hyderabad**

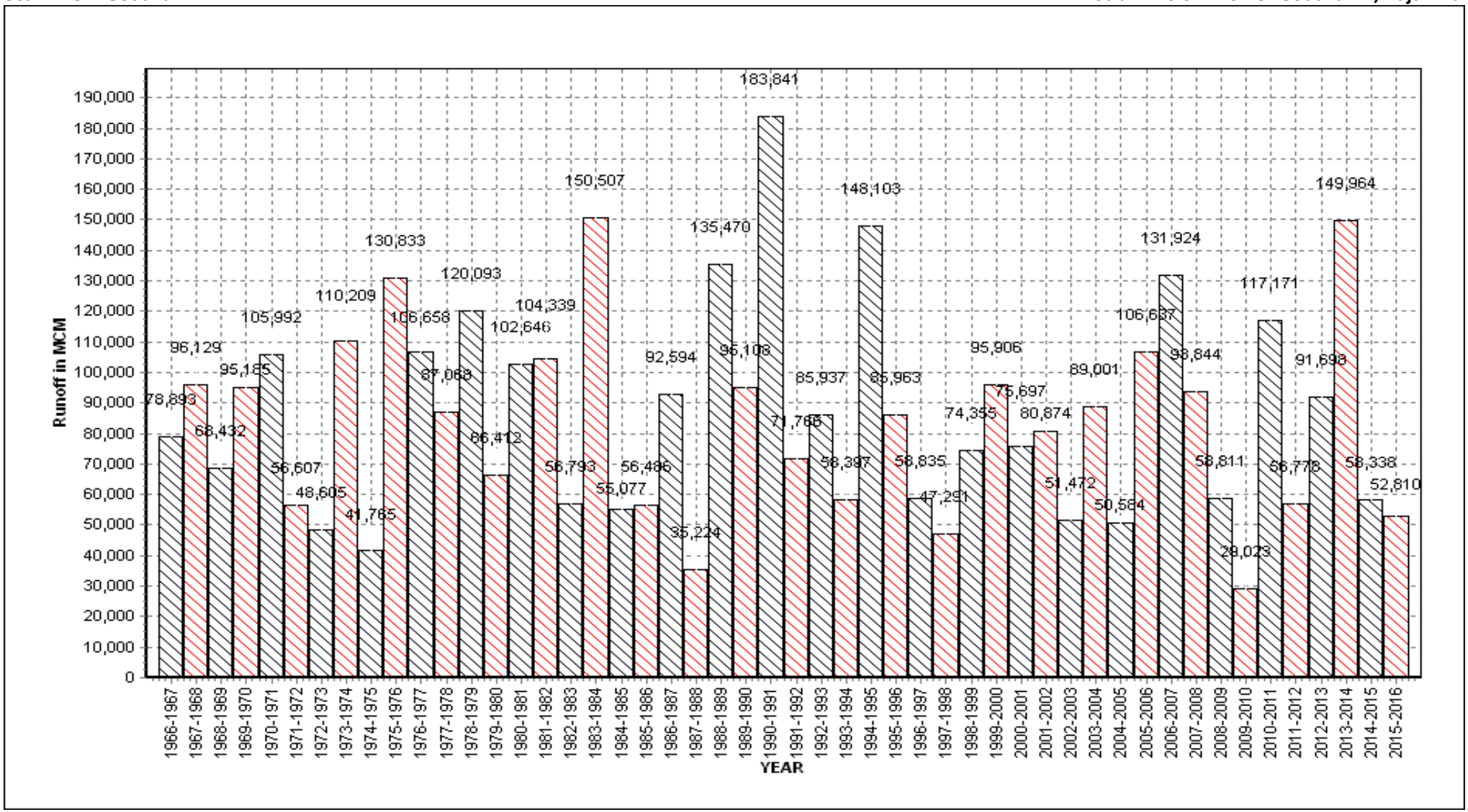
Local River : Godavari | **Sub-Division : Lower Godavari 2, Rajahmundry**



Annual Runoff Values for the period: 1966 - 2016

Station Name : Polavaram (AG000C3) **Division : Lower Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Lower Godavari 2, Rajahmundry**



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

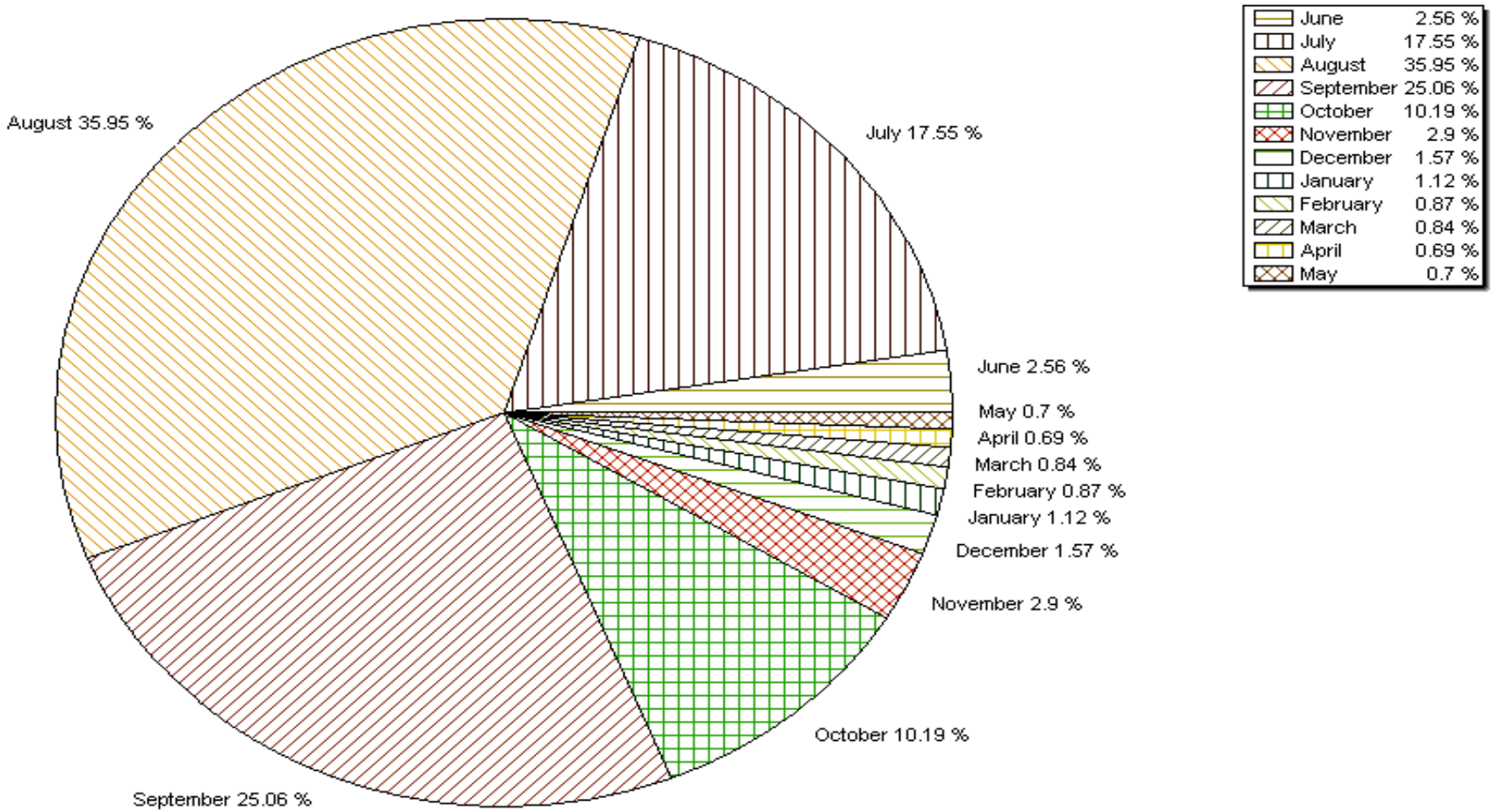
Monthly Average Runoff based on period : 1966-2015

Station Name : Polavaram (AG000C3)

Division : Lower Godavari Div., Hyderabad

Local River : Godavari

Sub-Division : Lower Godavari 2, Rajahmundry



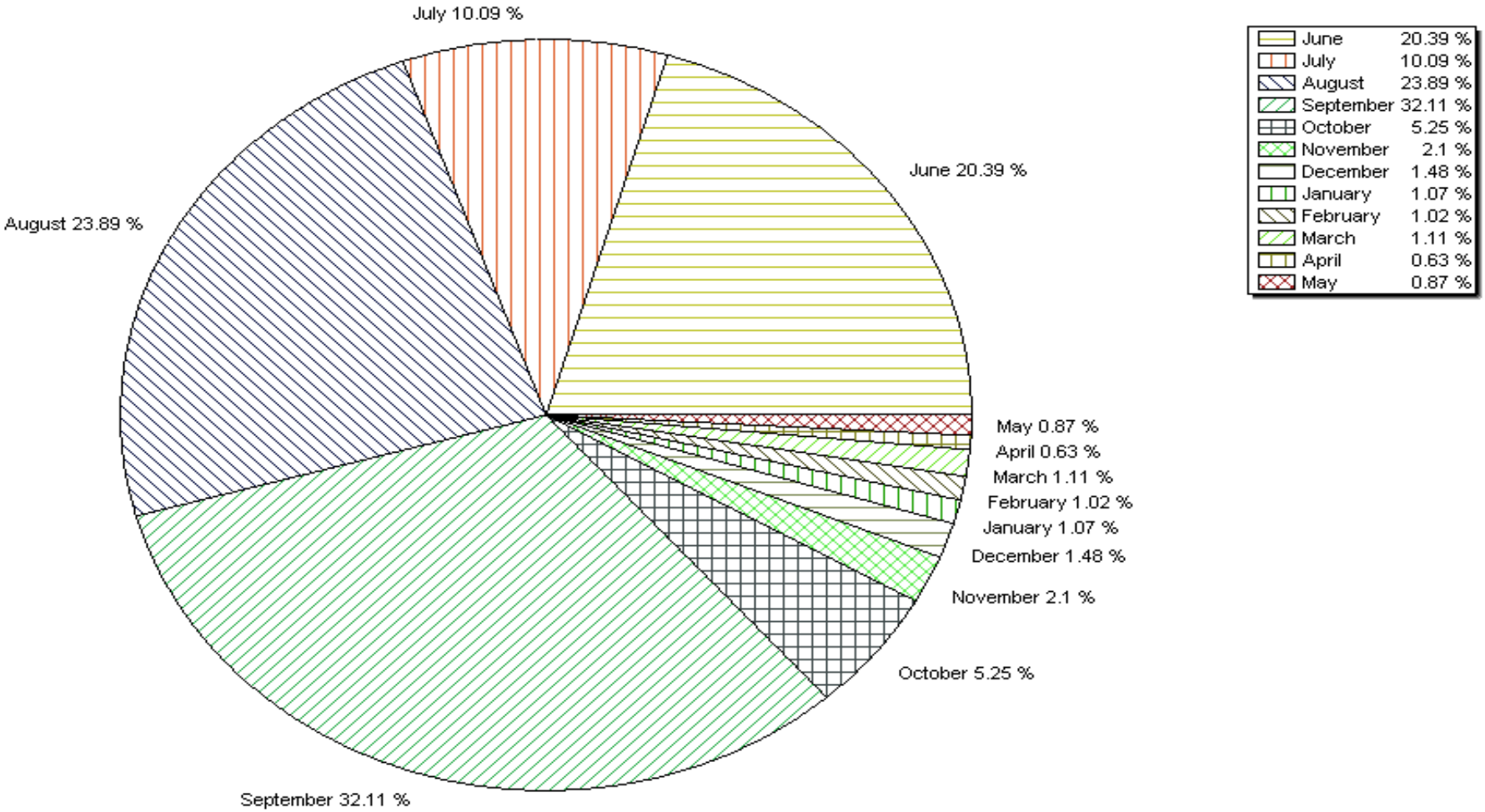
Monthly Runoff for the Year : 2015-2016

Station Name : Polavaram (AG000C3)

Local River : Godavari

Division : Lower Godavari Div., Hyderabad

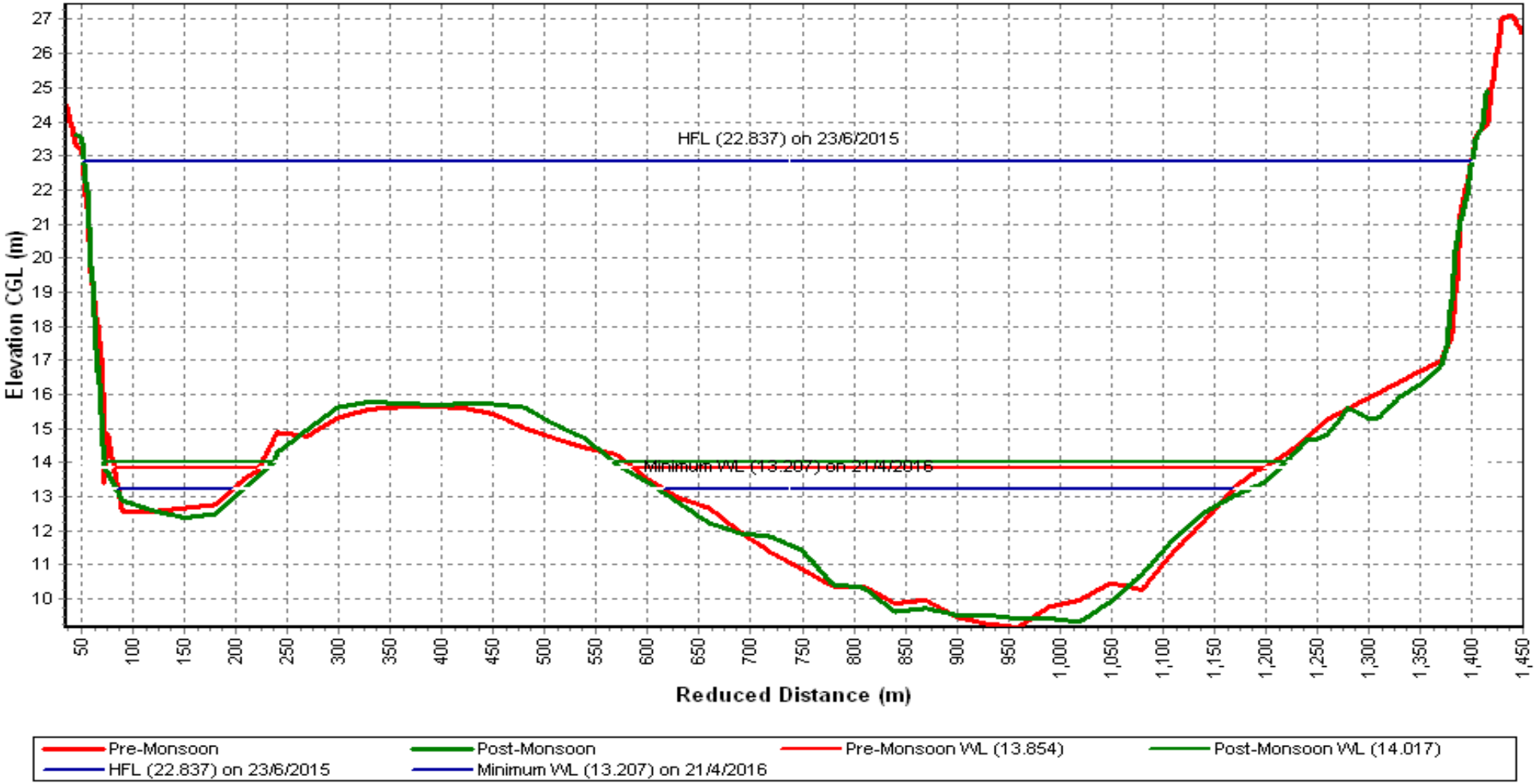
Sub-Division : Lower Godavari 2, Rajahmundry



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

Station Name : Polavaram (AG000C3) **Division : Lower Godavari Div., Hyderabad**

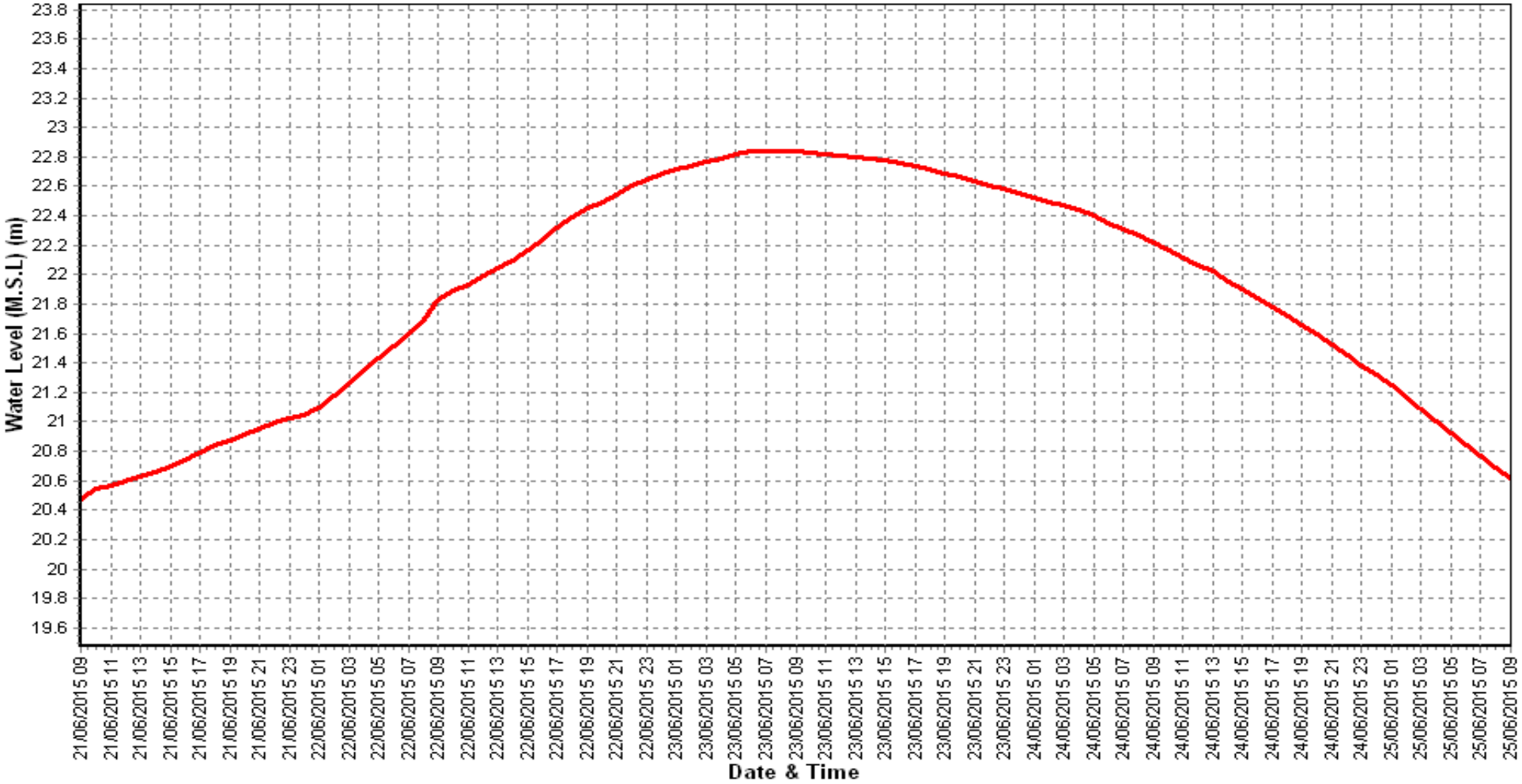
Local River : Godavari **Sub-Division : Lower Godavari 2, Rajahmundry**



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

Station Name : Polavaram (AG000C3) **Division : Lower Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Lower Godavari 2, Rajahmundry**

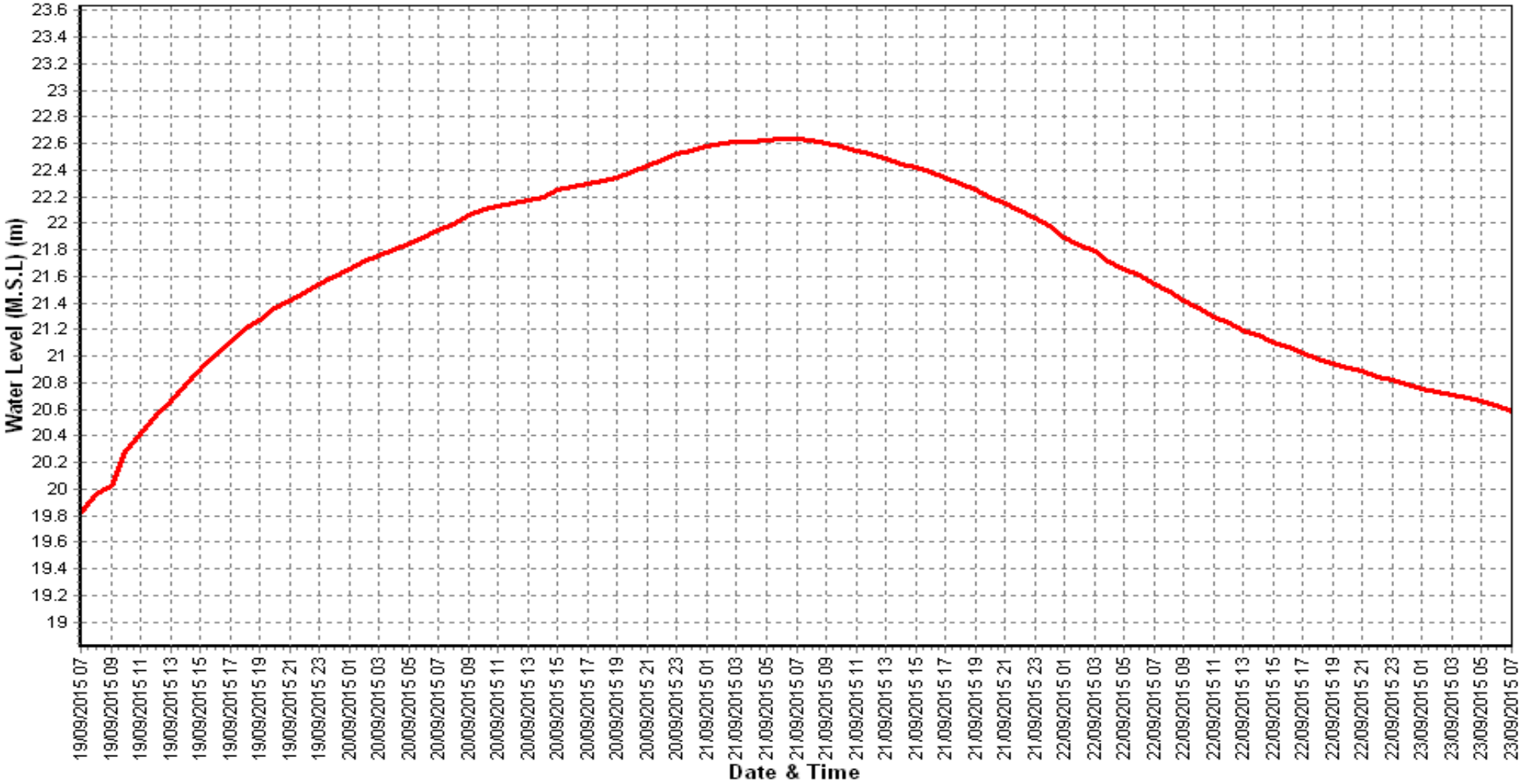


Time Span: 96 Hrs

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

Station Name : Polavaram (AG000C3) **Division : Lower Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Lower Godavari 2, Rajahmundry**

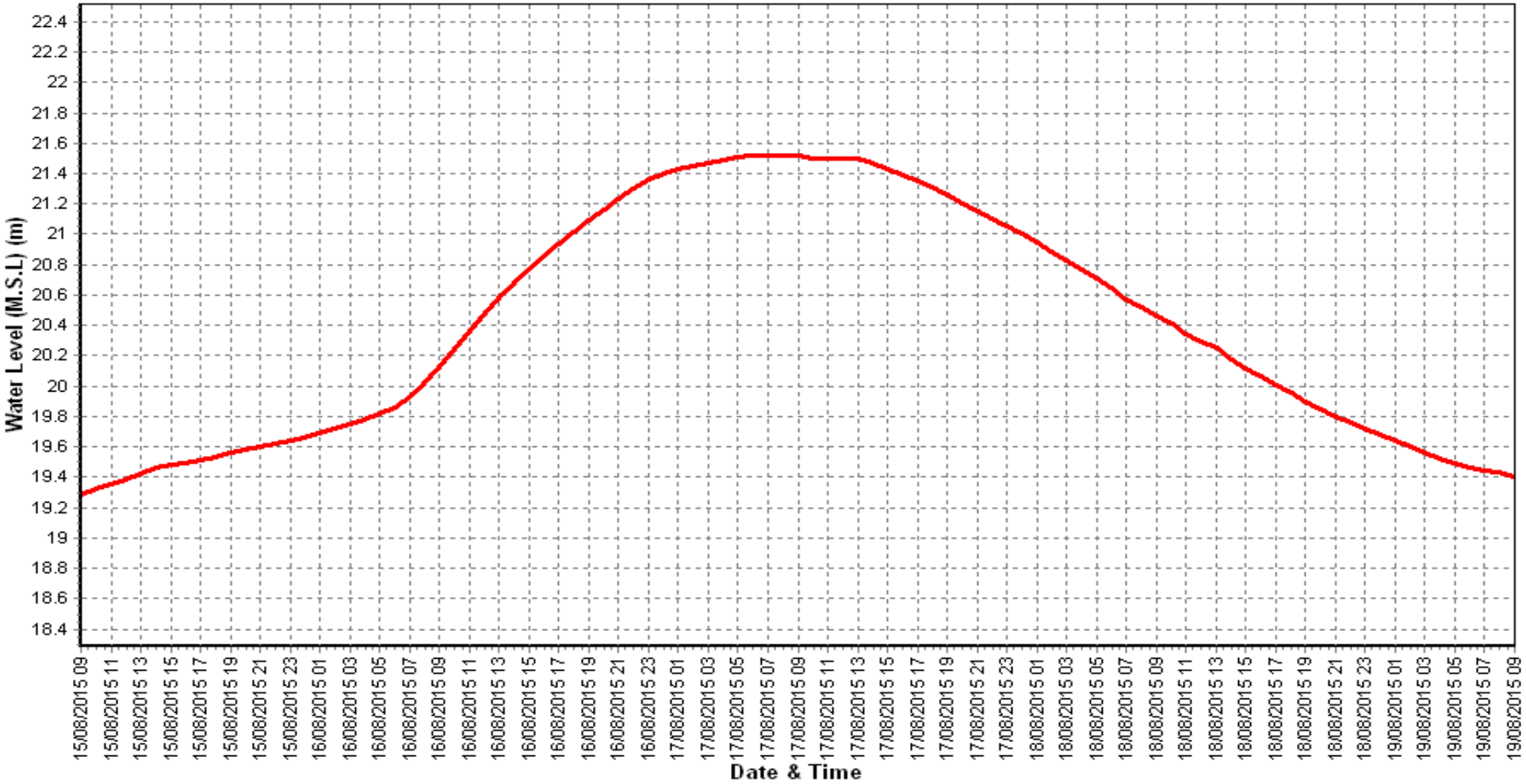


Time Span: 96 Hrs

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

Station Name : Polavaram (AG000C3) **Division : Lower Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Lower Godavari 2, Rajahmundry**



Time Span: 96 Hrs

HISTORY SHEET

			Water Year	:	**2015-2016**
Site	:	**Bhadrachalam**	**Code**	:	**AG000E7**
State	:	Andhra Pradesh	District		Khammam
Basin	:	Godavari	Independent River	:	Godavari
Tributary	:	-	Sub Tributary	:	-
Sub-Sub Tributary	:	-	Local River	:	Godavari
Division	:	Lower Godavari Div., Hyderabad	Sub-Division	:	Lower Godavari 1, Bhadrachalam
Drainage Area	:	280505 Sq. Km.	Bank	:	Left
Latitude	:	17°40'05"	Longitude	:	80°52'47"
Zero of Gauge (m)	:	32.610 (m.s.l)	01.06.2007		
		Opening Date	Closing Date		
Gauge	:	15.06.2007	**HFL During 2015-16**	:	**44.650**
			Corres. Discharge	:	**22141.586 Cumes(Estimated)**
Discharge	:	11.07.2007	**Date & Time of**	:	**22.06.2015**
			Occurance	:	**20:00 hrs.**
Sediment	:				
Water Quality	:	03.10.2006			

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	25440	45.010	12.08.2008	10.30	33.190	27.05.2009
2009-2010	11661	41.390	29.08.2009	0.346	32.770	02.05.2010
2010-2011	51444	50.140	08.08.2010	7.811	33.160	06.06.2010
2011-2012	24066	44.960	03.09.2011	4.210	33.410	31.05.2012
2012-2013	28082	46.285	22.08.2012	7.499	33.410	04.06.2012
2013-2014	49188	50.960	03.08.2013	1.631	33.460	05.06.2013
2014-2015	39656	48.700	09.09.2014	18.03	33.500	08.05.2015

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

Stage-Discharge Data for the period 2015 - 2016

Station Name : Bhadrachalam (AG000E7) **Division : Lower Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Lower Godavari 1, Bhadrachalam**

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	33.630	37.17	36.505	1837 #	36.565	1904 #	39.155	6206	36.590	1933 #	34.830	450.0 *
2	33.595	34.48	36.400	1722 *	36.220	1534 *	39.250	6574	36.400	1722 *	34.850	434.5
3	33.660	42.61	36.200	1514 *	35.900	1481	39.230	6349	36.255	1363	34.760	353.2
4	33.650	41.14	35.960	1282 *	35.680	1152	38.905	5196	36.080	1396 *	34.785	405.0
5	33.655	39.75	35.810	1147 *	35.485	931.9	38.465	4527	35.985	1246	34.780	388.7
6	33.700	45.61	35.640	1003 *	35.320	824.8	38.000	3874 *	35.940	1168	34.830	440.0
7	33.850	74.05 *	35.580	954.5 *	35.240	741.0	37.585	3574	35.825	1163	34.840	441.4
8	34.160	158.4 *	35.420	831.1 *	35.180	662.0 *	37.400	2867	35.715	1079	34.830	450.0 *
9	33.940	94.23	35.280	730.1 *	38.940	5543 *	36.990	2666	35.700	1008	34.810	418.2
10	33.980	97.36	35.060	584.7 *	38.775	5657	36.785	2443	35.660	1019 *	34.790	420.4
11	33.920	86.81	35.090	603.5 *	38.225	4462	36.645	2131	35.560	938.6 *	34.740	402.1 *
12	33.820	69.41	35.030	566.1 *	37.840	4217	36.510	1843 *	35.450	777.1	34.730	341.5
13	33.720	49.29	34.930	549.2	38.275	4586	36.780	2155 *	35.355	690.0	34.700	328.5
14	33.810	65.49 *	34.850	468.9	39.335	6877	36.645	2048	35.290	673.7	34.660	361.8 *
15	34.110	142.6 *	34.815	418.3	40.530	9048 *	36.580	1896	35.260	664.4	34.660	361.8 *
16	34.080	133.6 *	34.955	573.0	42.670	15125 *	36.920	2610	35.240	636.5	34.630	347.3 *
17	34.440	252.9	34.928	566.6	42.540	14520	37.010	2441 *	35.240	633.8	34.640	352.1 *
18	34.640	417.2	35.000	547.8 *	40.565	9135 #	37.863	3792	35.210	682.1 *	34.640	352.1 *
19	35.935	1497	35.090	603.5 *	39.785	7298 #	42.795	15755	35.120	510.0	34.620	342.5 *
20	37.155	2254	35.160	763.4	38.915	5513	43.680	18537 *	35.090	507.3	34.700	381.7 *
21	40.790	9703 *	35.285	784.0	38.570	4631	42.760	14839	35.115	538.6	34.550	309.9 *
22	43.610	18289 *	35.475	839.0	38.340	4229	41.520	11833	35.090	603.5 *	34.520	296.5 *
23	44.360	21030 *	35.910	1113	38.170	4154 *	40.885	9463	35.045	540.8	34.490	283.3 *
24	42.685	14911	36.650	2175	37.900	3954	39.940	7301	35.040	572.3 *	34.450	266.2 *
25	40.475	10513	37.495	3053	37.610	3719	39.080	5817 *	35.010	553.9 *	34.430	257.9 *
26	39.160	4732	37.920	3746 *	37.260	3283	38.250	4181	34.960	504.9	34.440	262.1 *
27	38.603	4909 #	37.715	3785	36.930	2764	38.050	3955 *	34.910	480.9	34.450	266.2 *
28	37.750	3481 *	37.925	3754 #	36.868	2474	37.480	2746	34.880	462.5	34.440	262.1 *
29	37.160	2547	37.970	3826 #	36.530	1962	37.125	2280	34.860	435.4	34.420	253.8 *
30	36.885	1994	37.695	3689	37.080	2531 *	36.830	1713	34.840	429.2	34.390	241.6 *
31			37.030	2466 #	39.445	7546			34.830	419.6		
n-Daily Mean												
I Ten-Daily	33.782	66.48	35.785	1161	36.331	2043	38.176	4427	36.015	1310	34.811	420.1
II Ten-Daily	34.563	496.9	34.985	566.0	39.868	8078	38.143	5321	35.282	671.4	34.672	357.1
III Ten-Daily	40.148	9211	37.006	2657	37.700	3750	39.192	6413	34.962	503.8	34.458	270.0
Monthly												
Min.	33.595	34.48	34.815	418.3	35.180	662.0	36.510	1713	34.830	419.6	34.390	241.6
Max.	44.360	21030	37.970	3826	42.670	15125	43.680	18537	36.590	1933	34.850	450.0
Mean	36.164	3258	35.960	1500	37.958	4595	38.504	5387	35.405	817.8	34.647	349.1

Annual Runoff in MCM = 42517 Annual Runoff in mm = 152

Peak Observed Discharge = 15755 cumecs on 19/09/2015 Corres. Water Level :42.795 m

Lowest Observed Discharge = 5.351 cumecs on 28/05/2016 Corres. Water Level :33.42 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 : Bhadrachalam (AG000E7) **Division : Lower Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Lower Godavari 1, Bhadrachalam**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	34.350	137.8 *	34.170	96.14	33.950	53.05	33.530	9.872 #	33.480	6.213	33.470	6.934 *
2	34.300	124.2 *	34.170	96.36	33.940	49.35	33.800	32.34	33.470	5.598	33.470	6.987
3	34.230	106.7 *	34.110	80.32 *	33.940	50.17	33.890	45.80	33.460	6.505 *	33.470	6.997
4	34.300	124.2 *	34.135	87.58	33.950	53.20	33.910	44.37	33.450	6.094 #	33.480	7.147
5	34.300	124.2 *	34.110	79.08	33.950	53.50	33.910	47.09	33.450	6.094 #	33.490	8.184
6	34.300	124.2 *	34.100	80.77	33.950	51.37	33.910	46.19 *	33.450	6.094 #	33.480	7.706
7	34.230	96.98	34.110	82.25	33.950	52.09 *	33.910	46.77	33.440	5.699 #	33.510	8.674
8	34.215	92.61	34.090	63.28	33.950	60.54	33.910	49.00	33.600	14.15 *	33.480	7.379 *
9	34.280	112.2	34.100	80.62	33.950	57.79	33.900	48.85	33.580	12.83 *	33.450	6.734
10	34.280	117.9	34.090	76.37 *	33.950	54.36	33.880	42.59	33.580	12.83 *	33.470	7.629
11	34.290	117.3	34.090	79.78	33.950	52.66	33.880	43.13	33.580	9.835	33.490	8.713
12	34.290	121.9	34.070	76.47	33.940	50.60	33.870	40.72 *	33.580	9.785	33.460	7.096
13	34.300	124.2 *	34.040	72.22	33.940	50.57 *	33.850	38.14 *	33.570	9.795	33.450	6.750
14	34.310	116.2	34.000	67.80	33.940	50.57 *	33.815	38.72	33.560	11.59 *	33.450	6.094 *
15	34.290	137.1	33.990	58.44 *	33.940	51.82	33.865	44.89	33.560	9.127	33.450	6.094 *
16	34.260	122.7	33.970	52.71	33.940	50.22	33.840	42.23	33.540	9.240	33.440	6.065
17	34.230	112.0	33.950	52.09 *	33.940	48.87	33.830	42.20	33.540	10.43 *	33.450	6.173
18	34.195	100.3	33.970	51.37	33.940	48.03	33.820	39.69	33.550	9.506	33.450	6.328
19	34.170	95.48	33.970	46.33	33.930	47.77	33.790	31.03 #	33.530	9.395	33.440	5.723
20	34.170	92.91 *	33.950	43.99	33.920	46.49	33.780	29.94 *	33.530	9.872 *	33.440	5.887
21	34.170	94.50	33.950	45.67	33.900	44.78 *	33.750	28.86	33.520	8.857	33.440	5.699 *
22	34.140	85.50	33.940	46.98	33.880	42.65	33.790	36.80	33.520	8.964	33.430	5.320 *
23	34.130	82.64	33.920	44.16	33.850	40.38	33.710	25.28	33.530	9.340	33.440	6.388
24	34.120	82.34 *	33.930	49.08 *	33.830	38.81	33.590	13.73	33.510	8.821 *	33.440	6.425
25	34.120	82.34 *	33.930	48.77	33.860	40.57	33.520	9.337 *	33.500	8.330	33.430	6.071
26	34.110	80.74	33.930	49.08 *	33.640	11.43	33.500	8.322 #	33.500	8.341	33.420	5.588
27	34.120	82.34 *	33.920	45.03	33.560	11.59 #	33.790	31.03 *	33.490	7.840	33.420	5.607
28	34.120	83.03	33.940	50.69	33.530	9.872 *	33.605	14.15	33.480	6.989	33.420	5.351
29	34.135	92.05	33.930	48.70	33.520	9.337 #	33.520	11.48	33.470	6.976	33.430	5.320 *
30	34.160	98.49	33.930	47.97			33.490	6.231	33.470	6.978	33.430	6.130
31	34.170	98.94	33.930	49.08 *			33.490	6.608			33.420	5.597
n-Daily Me												
I Ten-Daily	34.278	116.1	34.118	82.28	33.948	53.54	33.855	41.29	33.496	8.211	33.477	7.437
II Ten-Daily	34.250	114.0	34.000	60.12	33.938	49.76	33.834	39.07	33.554	9.857	33.452	6.492
III Ten-Daily	34.136	87.54	33.932	47.75	33.730	27.71	33.614	17.44	33.499	8.143	33.429	5.772
Monthly												
Min.	34.110	80.74	33.920	43.99	33.520	9.337	33.490	6.231	33.440	5.598	33.420	5.320
Max.	34.350	137.8	34.170	96.36	33.950	60.54	33.910	49.00	33.600	14.15	33.510	8.713
Mean	34.219	105.3	34.014	62.88	33.877	44.22	33.763	32.11	33.516	8.737	33.452	6.542

Peak Computed Discharge = 21030 cumecs on 23/06/2015 Corres. Water Level :44.36 m

Lowest Computed Discharge = 5.320 cumecs on 22/05/2016 Corres. Water Level :33.43 m

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

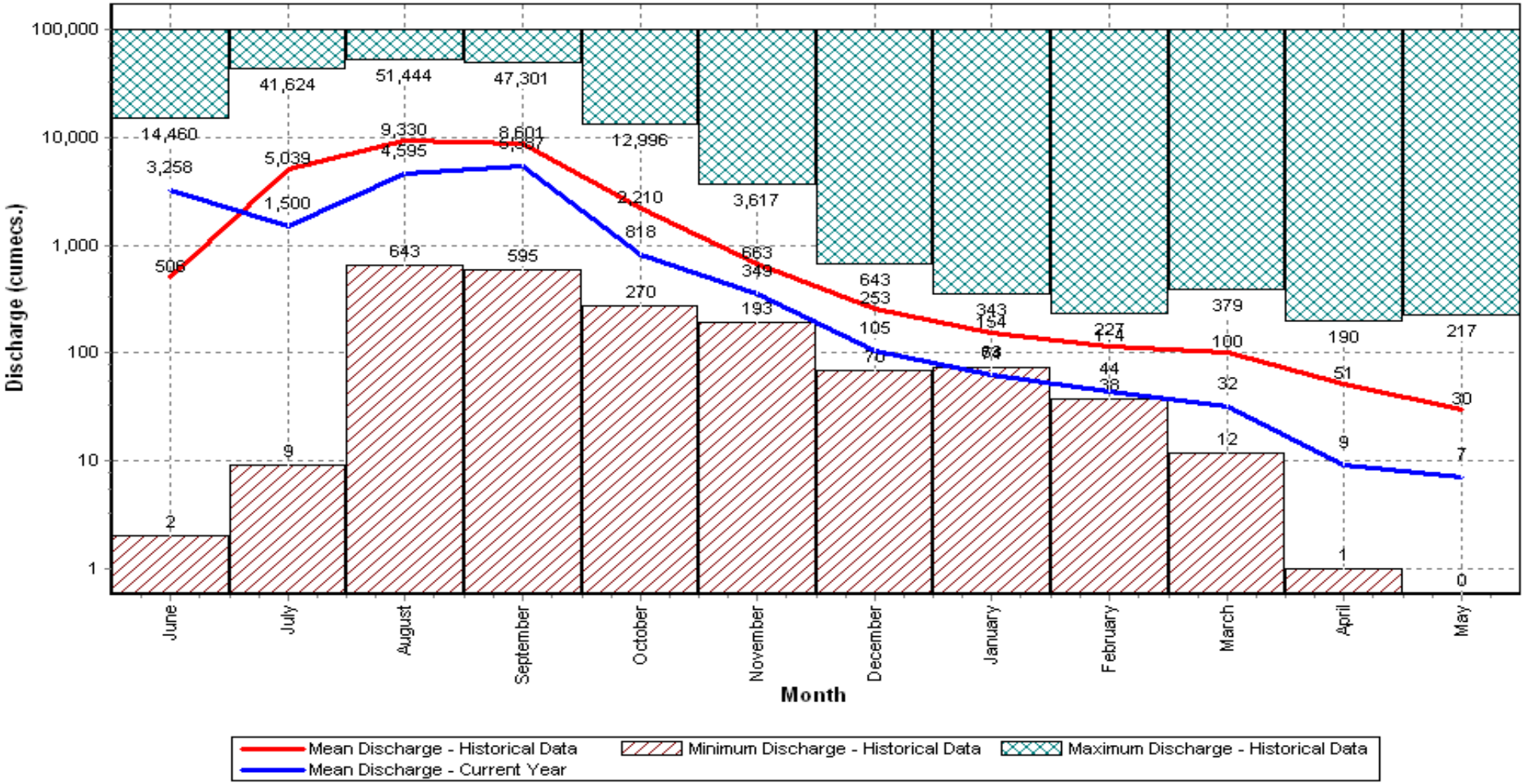
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016

Station Name : Bhadrachalam (AG000E7) **Data considered : 2008-2016** **Division : Lower Godavari Div., Hyderabad**

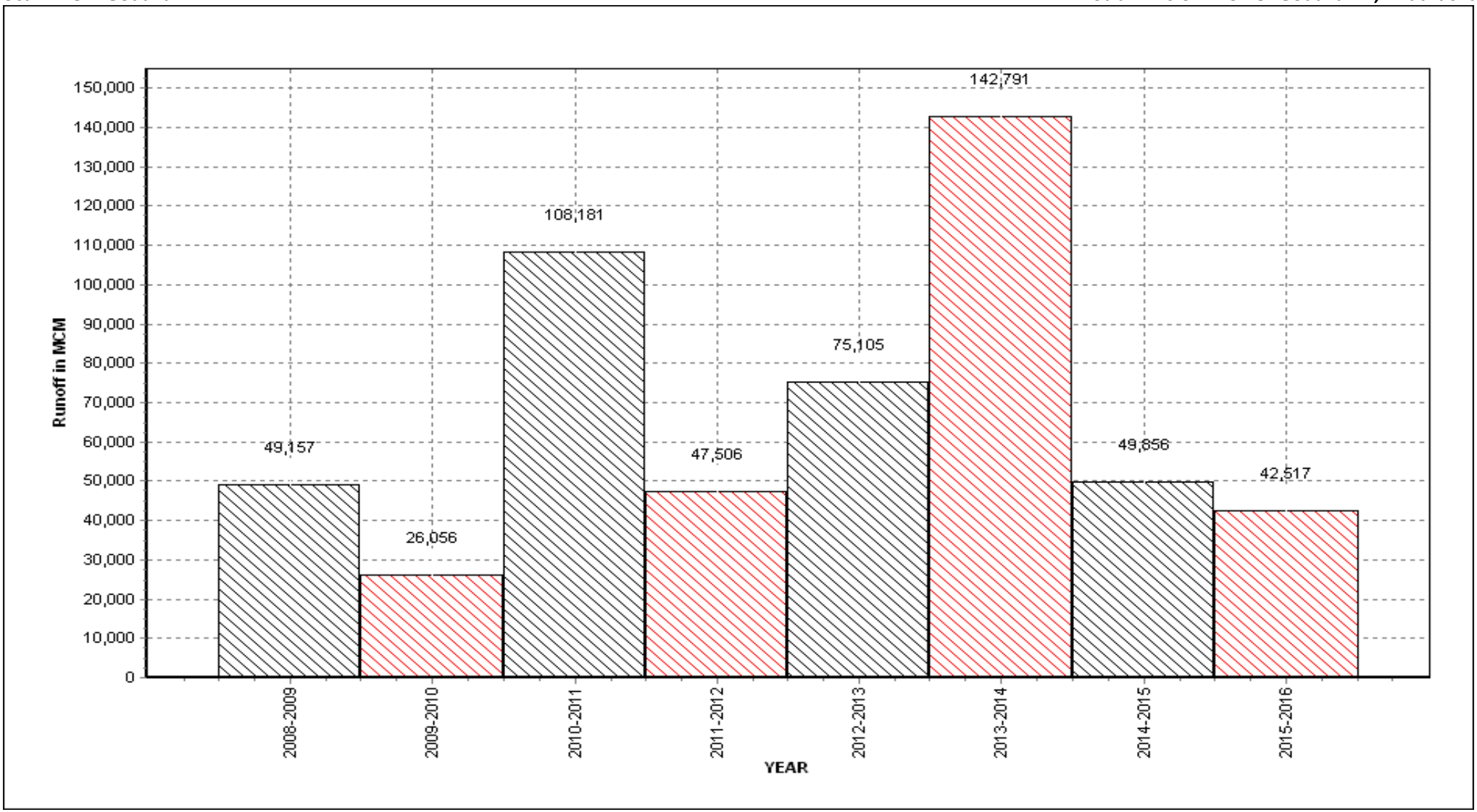
Local River : Godavari **Sub-Division : Lower Godavari 1, Bhadrachalam**



Annual Runoff Values for the period: 2008 - 2016

Station Name : Bhadrachalam (AG000E7) **Division : Lower Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Lower Godavari 1, Bhadrachalam**

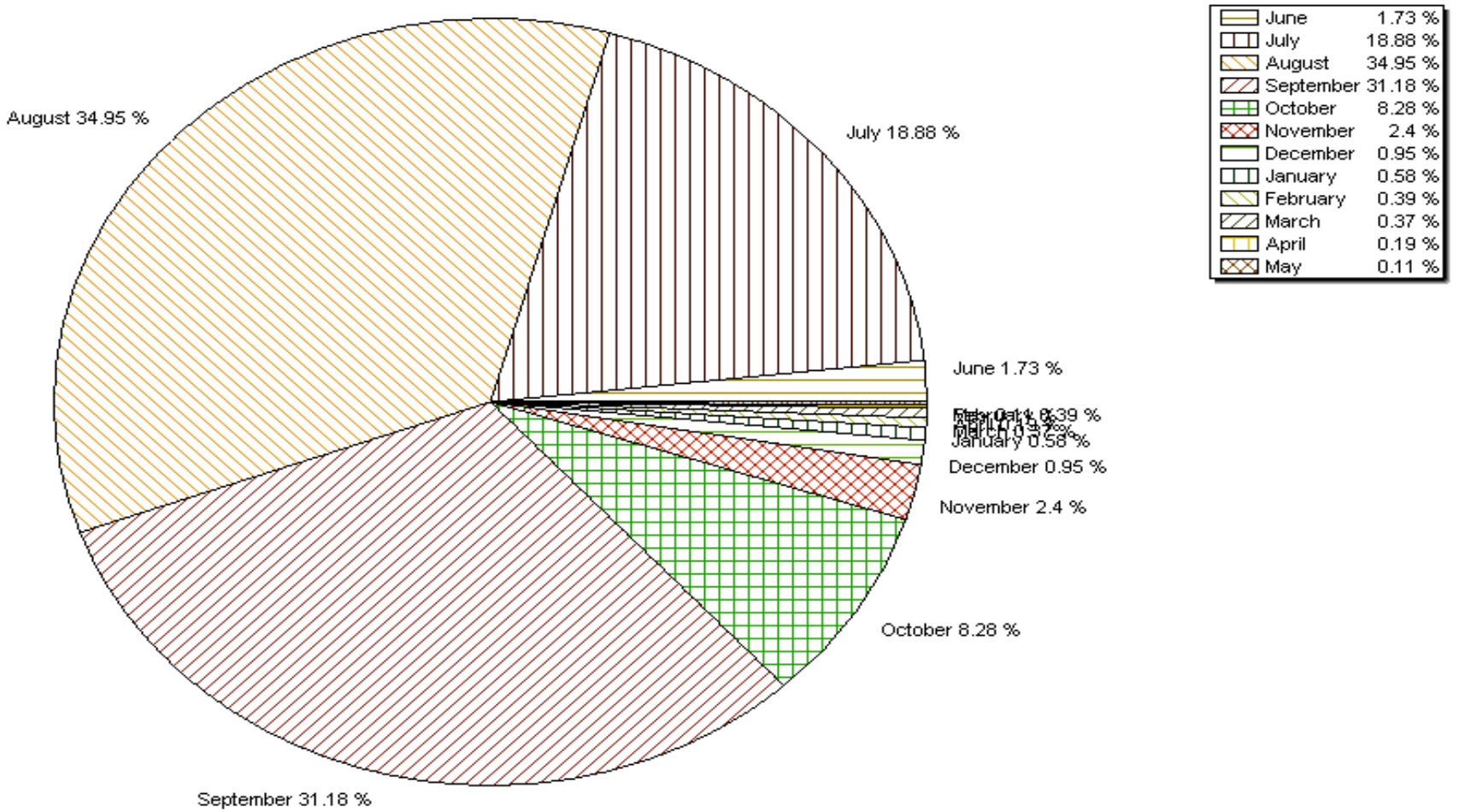


Note: Missing values have not been considered while arriving at Annual Runoff

Monthly Average Runoff based on period : 2008-2015

Station Name : Bhadrachalam (AG000E7) **Division : Lower Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Lower Godavari 1, Bhadrachalam**



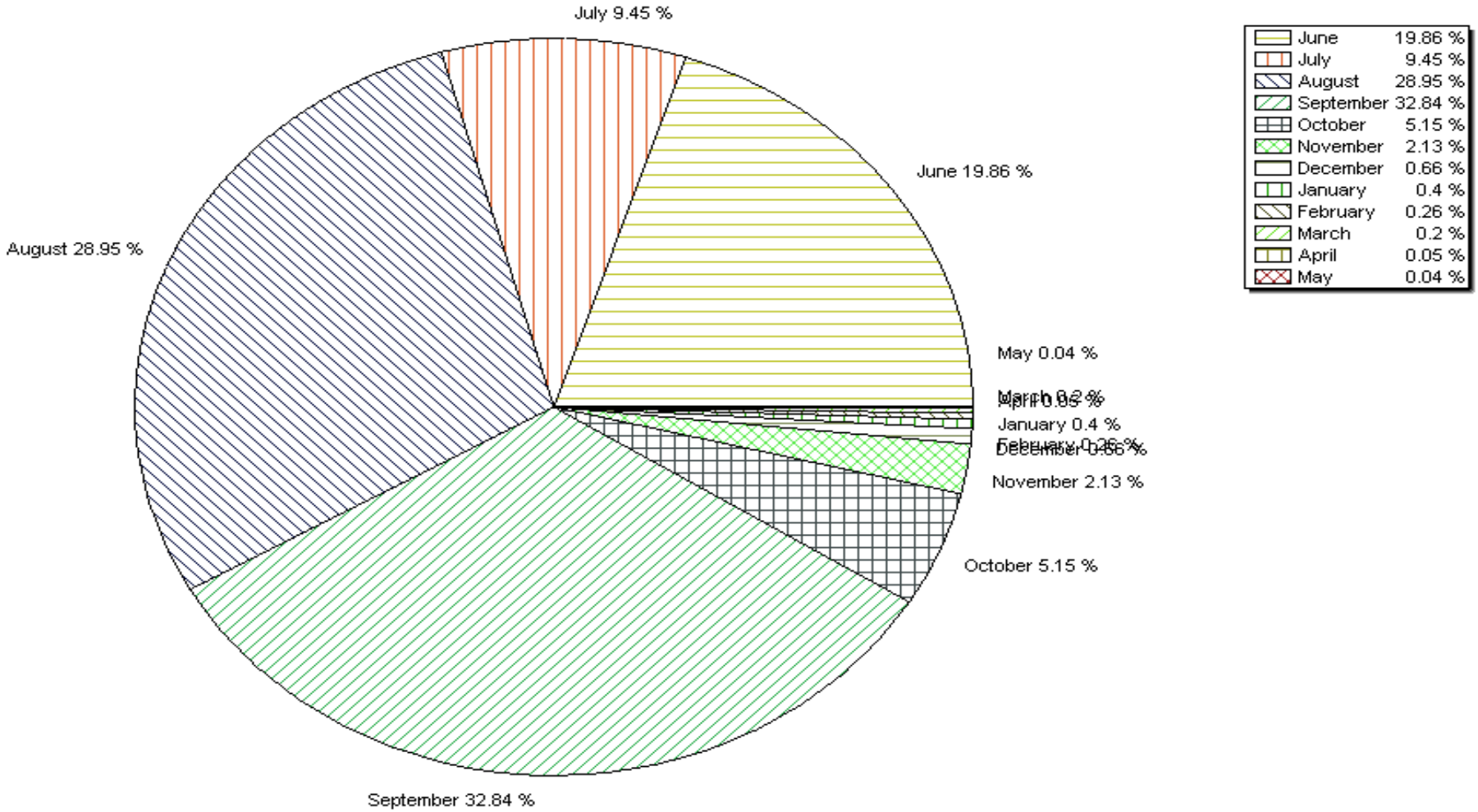
Monthly Runoff for the Year : 2015-2016

Station Name : Bhadrachalam (AG000E7)

Local River : Godavari

Division : Lower Godavari Div., Hyderabad

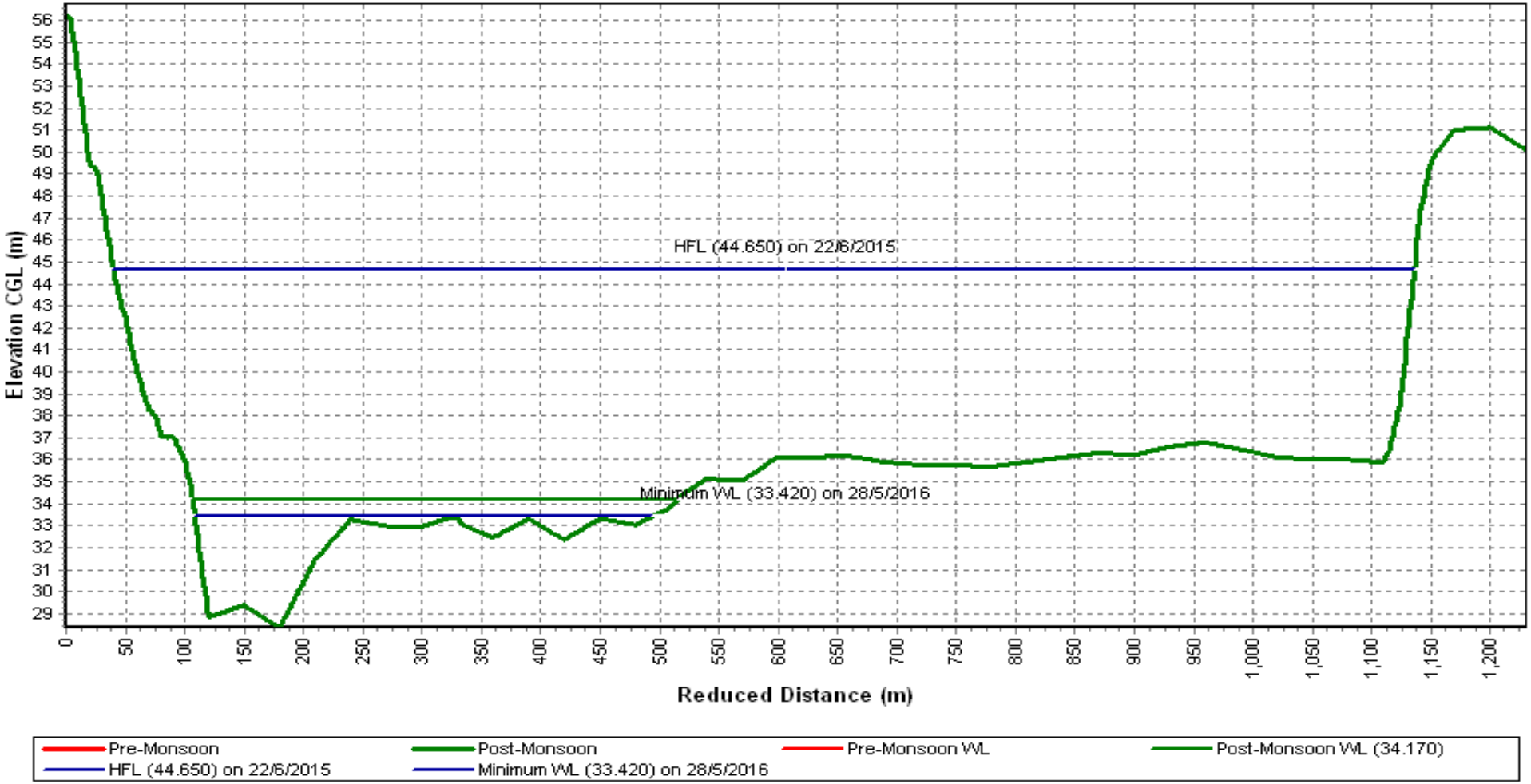
Sub-Division : Lower Godavari 1, Bhadrachalam



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

Station Name : Bhadrachalam (AG000E7) **Division : Lower Godavari Div., Hyderabad**

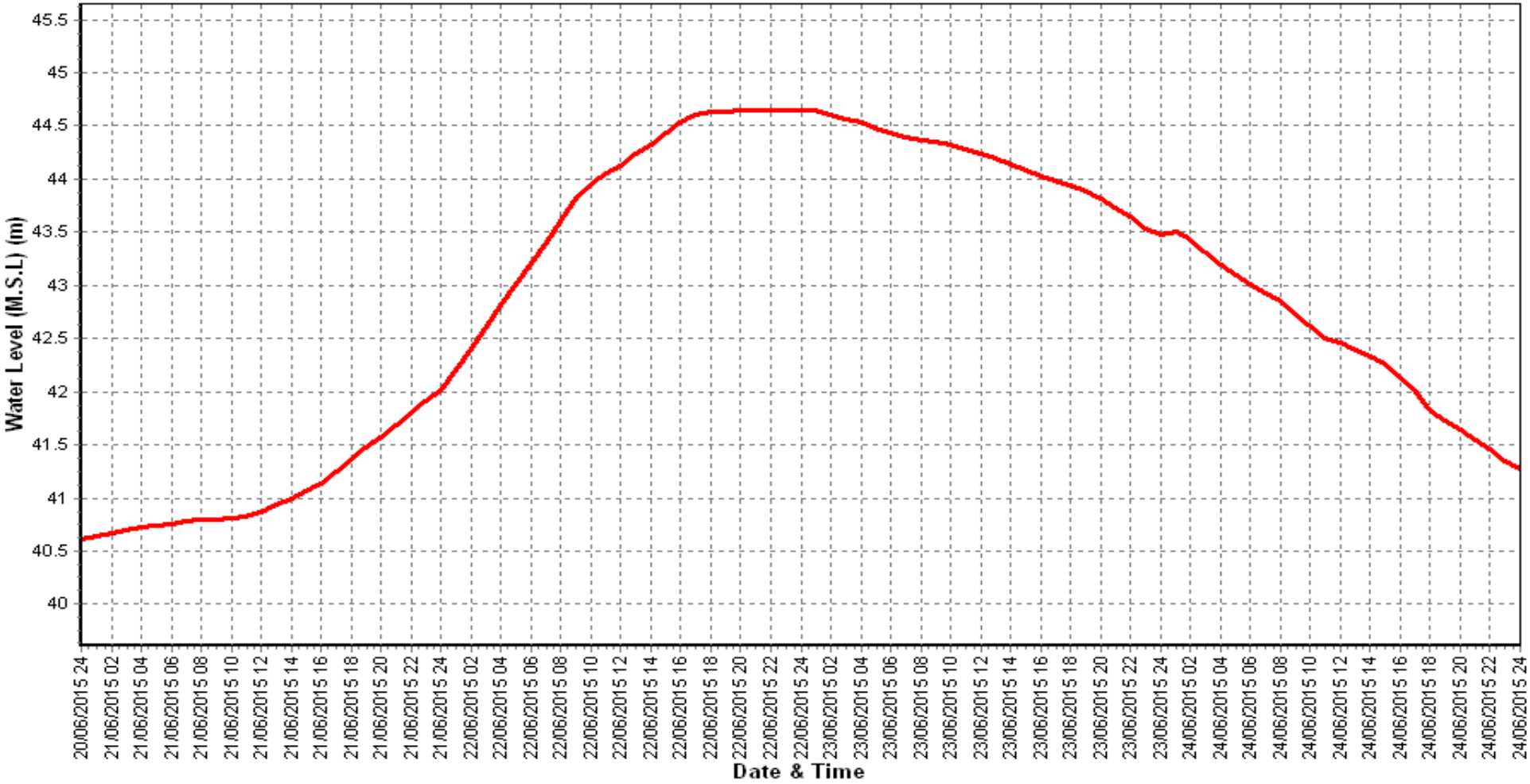
Local River : Godavari **Sub-Division : Lower Godavari 1, Bhadrachalam**



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

Station Name : Bhadrachalam (AG000E7) **Division : Lower Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Lower Godavari 1, Bhadrachalam**

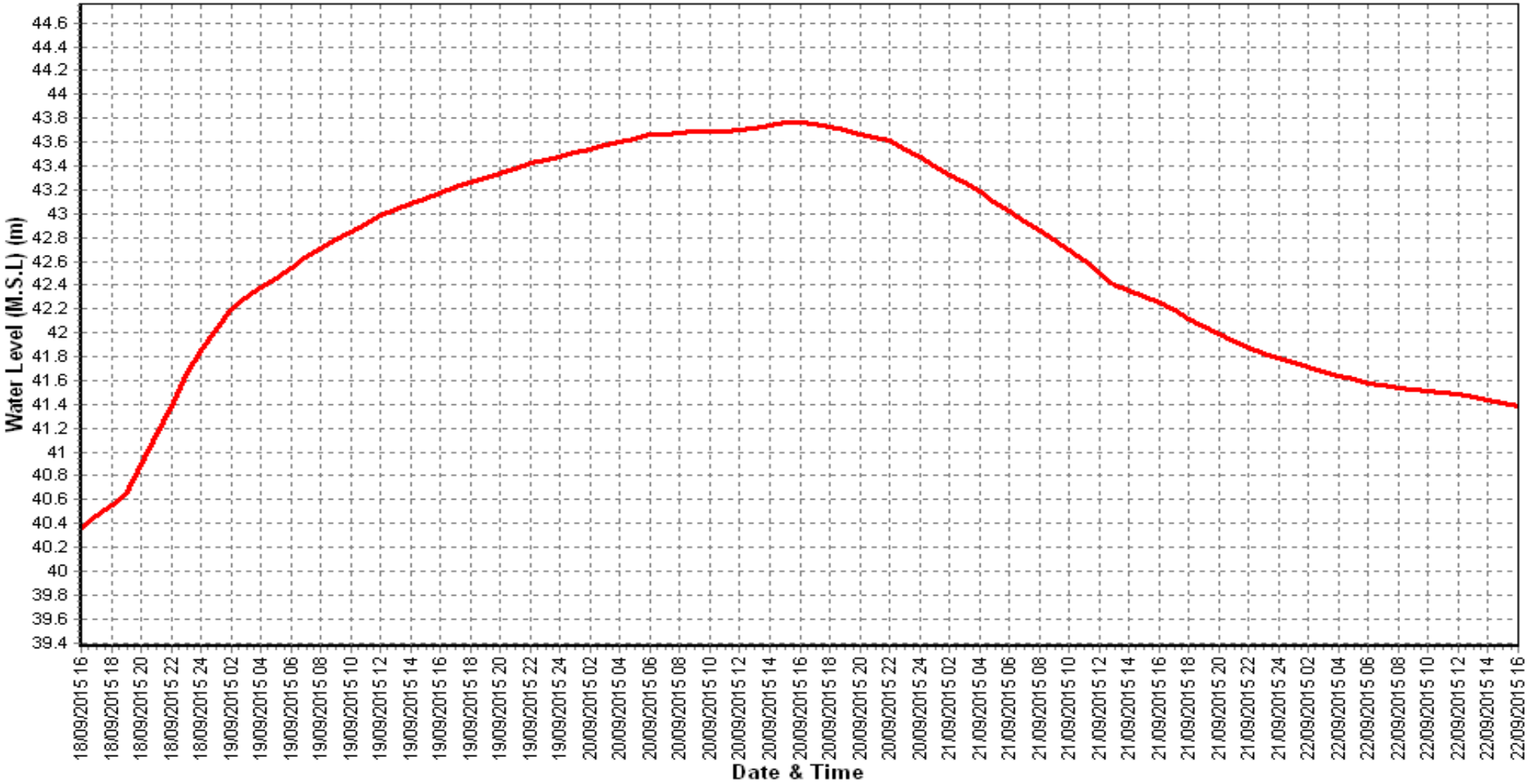


Time Span: 96 Hrs

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

Station Name : Bhadrachalam (AG000E7) **Division : Lower Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Lower Godavari 1, Bhadrachalam**

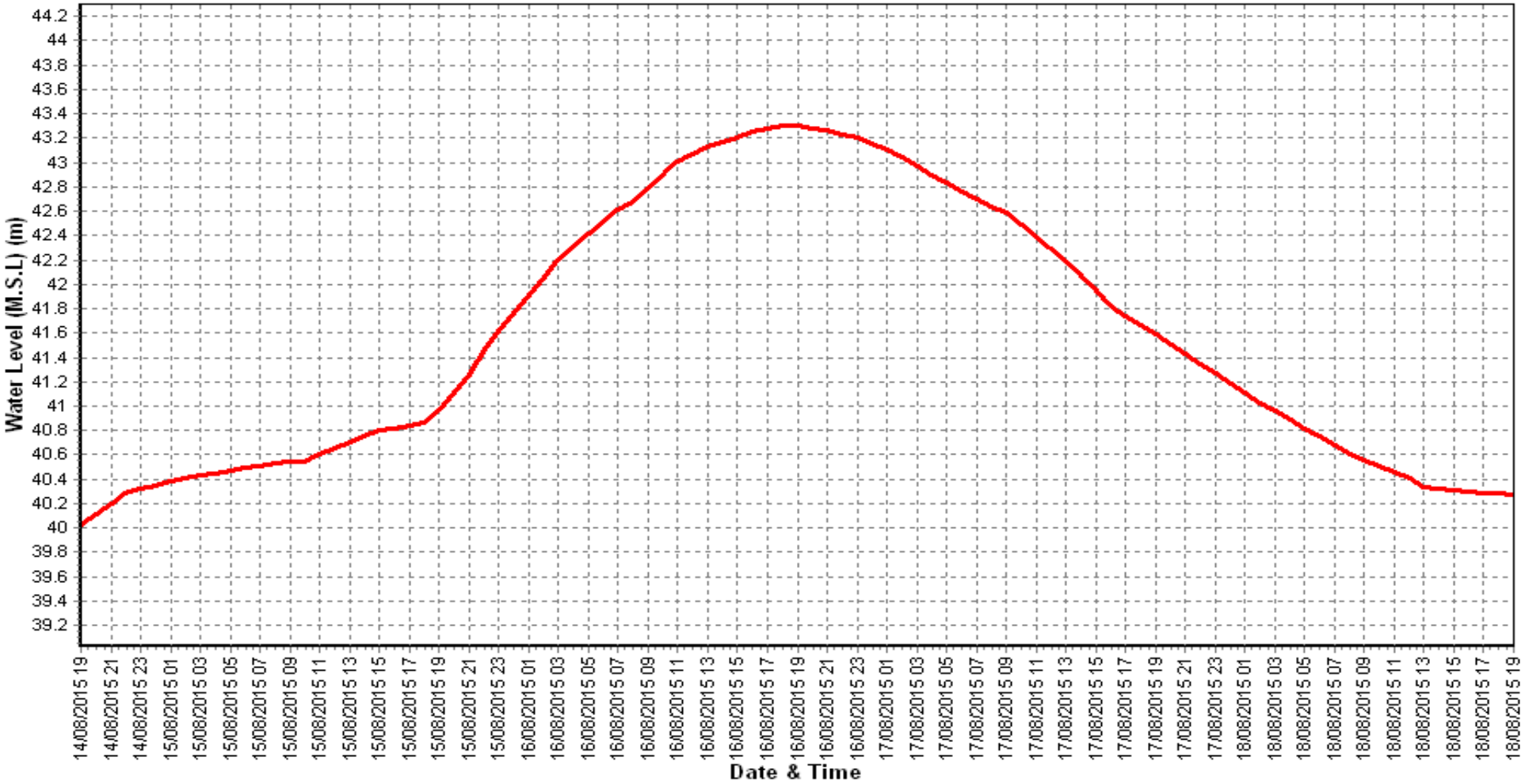


Time Span: 96 Hrs

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

Station Name : Bhadrachalam (AG000E7) **Division : Lower Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Lower Godavari 1, Bhadrachalam**



Time Span: 96 Hrs

HISTORY SHEET

Water Year : 2015-2016

Site	**: Konta**		**Code**	**: AGC00C5**	
State	: Chhattisgarh		District	Dantewara	
Basin	: Godavari		Independent River	: Godavari	
Tributary	: Sabari		Sub Tributary	: -	
Sub-Sub Tributary	: -		Local River	: Sabari	
Division	: Lower Godavari Div., Hyderabad		Sub-Division	: Lower Godavari 1, Bhadrachalam	
Drainage Area	: 19550 Sq. Km.		Bank	: Left	
Latitude	: 17°47'56"		Longitude	: 81°23'18"	
Zero of Gauge (m)	: 30.1 (m.s.l) 30.43 (m.s.l) 29 (m.s.l)		05.02.1964 01.06.1976 01.06.1997	- 31.05.1976 - 31.05.1997	
	Opening Date		Closing Date		
Gauge	: 05.02.1964		**HFL During 2015-16**	**: 41.660**	
			Corres. Discharge	**: 9317.002 Cumes(Estimated)**	
Discharge	: 28.10.1965		**Date & Time of Occurance**	**: 21.06.2015 : 15:00 hrs.**	
Sediment	: 01.01.1968				
Water Quality	: 05.05.1968				

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

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1966-1967	14416	44.940	08.09.1966	23.81	30.700	15.05.1967
1967-1968	7913	41.600	02.08.1967	28.91	30.795	18.04.1968
1968-1969	10414	43.170	04.10.1968	31.61	30.720	04.06.1968
1969-1970	9788	43.480	30.07.1969	43.01	30.805	17.04.1970
1970-1971	4938	40.675	20.08.1970	45.15	30.990	29.03.1971
1971-1972	3051	37.625	06.09.1971	26.52	30.930	03.04.1972
1972-1973	6889	40.423	07.07.1972	17.64	30.990	28.03.1973
1973-1974	5210	39.800	15.07.1973	43.68	31.150	10.06.1973
1974-1975	2247	36.435	10.08.1974	34.48	31.260	22.01.1975
1975-1976	7762	42.585	10.09.1975	69.06	31.515	01.04.1976
1976-1977	7413	41.945	02.09.1976	52.97	31.740	05.06.1976
1977-1978	5867	40.715	23.08.1977	66.76	31.780	18.04.1978
1978-1979	7992	43.410	16.08.1978	101.6	31.945	12.06.1978
1979-1980	2942	37.655	26.06.1979	47.68	31.745	26.02.1980
1980-1981	4991	39.432	22.08.1980	78.28	31.895	05.06.1980
1981-1982	5762	40.535	03.08.1981	40.30	31.675	12.04.1982
1982-1983	6291	40.400	29.08.1982	46.20	31.660	04.04.1983
1983-1984	5958	41.115	05.10.1983	40.20	31.725	16.06.1983
1984-1985	8037	41.840	03.08.1984	63.10	31.760	01.05.1985
1985-1986	3213	37.830	02.08.1985	27.60	31.580	26.05.1986

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**
1986-1987	20187	49.910	17.08.1986	52.20	31.708	04.05.1987
1987-1988	3759	38.770	11.07.1987	33.40	31.490	17.05.1988
1988-1989	6494	41.410	29.07.1988	41.67	31.620	07.06.1988
1989-1990	5915	40.790	23.07.1989	89.70	31.995	08.05.1990
1990-1991	8568	43.170	05.10.1990	194.5	32.430	20.01.1991
1991-1992	2198	37.165	09.08.1991	78.11	31.900	28.05.1992
1992-1993	6593	41.765	16.08.1992	83.08	31.890	14.06.1992
1993-1994	1696	36.400	16.07.1993	35.64	31.605	05.04.1994
1994-1995	5317	44.660	06.09.1994	37.01	31.650	05.06.1994
1995-1996	5725	41.000	23.07.1995	169.6	32.330	01.04.1996
1996-1997	3254	38.770	23.07.1996	130.8	32.280	30.05.1997
1997-1998	2022	36.820	31.07.1997	60.00	31.305	02.06.1997
1998-1999	2053	36.510	12.07.1998	59.95	31.300	13.06.1998
1999-2000	3552	38.960	09.08.1999	122.6	31.840	24.04.2000
2000-2001	5563	40.770	30.08.2000	52.46	31.445	20.04.2001
2001-2002	3291	38.460	22.08.2001	70.16	31.620	06.06.2001
2002-2003	1745	36.260	25.08.2002	22.74	31.260	30.05.2003
2003-2004	7512	42.760	27.07.2003	22.76	31.190	08.06.2003
2004-2005	5804	40.510	05.08.2004	71.23	31.550	09.05.2005
2005-2006	8854	44.180	20.09.2005	136.4	31.955	25.05.2006
2006-2007	12181	46.450	06.08.2006	121.0	31.770	22.02.2007
2007-2008	6924	41.600	06.10.2007	106.3	31.700	26.05.2008
2008-2009	4193	39.010	30.07.2008	58.86	31.340	20.05.2009
2009-2010	1832	36.040	16.07.2009	9.349	31.040	01.01.2010
2010-2011	7021	42.020	09.08.2010	77.47	31.500	07.06.2010
2011-2012	3494	38.390	03.09.2011	62.49	31.390	21.12.2011
2012-2013	5730	40.380	06.08.2012	111.6	31.780	31.01.2013
2013-2014	6201	41.040	22.07.2013	0.000	42.250	03.08.2013
2014-2015	9768	40.520	09.09.2014	119.4	31.850	12.05.2015

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

Stage-Discharge Data for the period 2015 - 2016

Station Name : Konta (AGC00C5) **Division : Lower Godavari Div., Hyderabad**

Local River : Sabari **Sub-Division : Lower Godavari 1, Bhadrachalam**

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	32.130	181.4	33.180	531.9 *	32.680	352.7 *	36.200	2410 *	33.250	560.0 *	32.180	210.5 *
2	32.345	231.4	33.280	572.2 *	32.750	375.5 *	36.250	2452 *	33.450	644.2 *	32.380	262.9 *
3	32.400	248.9	33.150	520.1 *	32.640	339.9 *	36.000	2243 *	33.210	543.8 *	32.250	228.2 *
4	32.160	183.3	33.180	531.9 *	32.600	327.4 *	35.200	1636 *	33.020	470.5 *	32.350	254.7 *
5	31.880	133.0	33.160	524.0 *	32.620	333.7 *	34.360	1103 *	33.000	463.1 *	32.480	291.4 *
6	32.475	306.4	33.080	493.1 *	32.550	312.2 *	33.900	855.4 *	33.030	474.2 *	32.600	327.4 *
7	32.370	260.2 *	32.960	448.5 *	32.710	362.4 *	33.720	767.3 *	33.010	466.8 *	32.380	262.9 *
8	32.180	203.9	32.820	399.1 *	32.720	365.7 *	33.650	734.3 *	32.980	455.8 *	32.380	262.9 *
9	32.210	212.8	32.620	333.7 *	32.720	365.7 *	33.690	753.1 *	32.800	392.3 *	32.300	241.2 *
10	32.460	281.7	32.580	321.3 *	32.750	375.5 *	33.730	772.0 *	32.850	409.5 *	31.980	163.9 *
11	32.415	282.3	32.370	260.2 *	34.500	1184 *	33.690	753.1 *	32.720	365.7 *	32.250	228.2 *
12	32.410	271.3 *	32.660	346.3 *	34.650	1275 *	33.500	666.1 *	32.700	359.1 *	32.150	203.1 *
13	32.400	255.7	32.600	327.4 *	35.850	2122 *	34.190	1008 *	32.750	375.5 *	32.280	236.0 *
14	32.520	303.2 *	33.010	466.8 *	35.790	2074 *	34.100	959.0 *	32.720	365.7 *	32.100	191.1 *
15	32.700	364.6	33.270	568.1 *	35.300	1707 *	34.370	1108 *	32.550	312.2 *	32.350	254.7 *
16	32.925	408.4	33.420	631.1 *	34.440	1149 *	36.600	2762 *	32.730	368.9 *	32.200	215.4 *
17	32.885	372.0	33.900	855.4 *	34.200	1013 *	39.100	5512 *	32.530	306.1 *	31.980	163.9 *
18	33.130	563.6	33.960	885.8 *	34.500	1184 *	38.500	4765 *	32.760	378.9 *	32.130	198.3 *
19	35.900	2162 *	33.890	850.4 *	34.160	991.2 *	36.660	2817 *	32.540	309.1 *	32.200	215.4 *
20	39.800	6452 *	33.790	801.0 *	33.950	880.7 *	37.850	4018 *	32.580	321.3 *	32.250	228.2 *
21	40.500	7468 *	34.180	1002 *	33.750	781.6 *	39.280	5746 *	32.700	359.1 *	32.300	241.2 *
22	38.960	5332 *	33.640	729.7 *	34.080	948.4 *	36.850	2994 *	32.660	346.3 *	32.280	236.0 *
23	36.800	2947 *	34.650	1275 *	33.850	830.4 *	35.670	1981 *	32.460	285.6 *	32.280	236.0 *
24	35.900	2162 *	35.000	1499 *	33.830	820.5 *	34.800	1369 *	32.450	282.7 *	32.250	228.2 *
25	34.480	1172 *	34.430	1143 *	33.600	711.2 *	34.310	1074 *	32.500	297.2 *	32.240	225.6 *
26	33.770	791.3 *	34.350	1097 *	33.350	601.3 *	34.180	1002 *	32.340	252.0 *	32.320	246.6 *
27	33.330	592.9 *	33.650	734.3 *	33.580	702.1 *	34.180	1002 *	32.300	241.2 *	32.065	185.5
28	33.460	648.5 *	33.360	605.5 *	34.000	906.4 *	33.800	805.8 *	32.250	228.2 *	32.200	215.4 *
29	33.200	539.9 *	33.050	481.7 *	35.680	1989 *	33.600	711.2 *	32.380	262.9 *	32.250	228.2 *
30	33.280	572.2 *	32.780	385.6 *	36.200	2410 *	33.060	485.5 *	32.340	252.0 *	32.125	201.7
31			32.810	395.7 *	35.500	1852 *			32.440	279.8 *		
-Daily Mean												
Ten-Dai	32.261	224.3	33.001	467.6	32.674	351.1	34.670	1373	33.060	488.0	32.328	250.6
Ten-Dai	33.708	1144	33.287	599.3	34.734	1358	35.856	2437	32.658	346.2	32.189	213.4
Ten-Da	35.368	2223	33.809	849.9	34.311	1141	34.973	1717	32.438	280.6	32.231	224.4
Monthly												
Min.	31.880	133.0	32.370	260.2	32.550	312.2	33.060	485.5	32.250	228.2	31.980	163.9
Max.	40.500	7468	35.000	1499	36.200	2410	39.280	5746	33.450	644.2	32.600	327.4
Mean	33.779	1197	33.380	645.7	33.919	956.2	35.166	1842	32.710	368.7	32.249	229.5

Annual Runoff in MCM = 16688 Annual Runoff in mm = 854

Peak Observed Discharge = 563.6 cumecs on 18/06/2015 Corres. Water Level :33.13 m

Lowest Observed Discharge = 49.11 cumecs on 12/05/2016 Corres. Water Level :31.3 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

Stage-Discharge Data for the period 2015 - 2016

Station Name : Konta (AGC00C5) **Division : Lower Godavari Div., Hyderabad**

Local River : Sabari **Sub-Division : Lower Godavari 1, Bhadrachalam**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	32.080	194.3	32.070	184.1 *	32.170	208.0 *	32.320	246.6 *	31.980	162.0	32.130	198.3 *
2	32.320	246.6 *	32.120	195.9 *	32.220	220.5 *	32.380	262.9 *	32.210	218.0 *	32.230	223.0 *
3	32.380	262.9 *	32.000	168.3 *	32.170	208.0 *	32.280	236.0 *	32.230	223.0 *	31.740	117.3
4	32.130	200.8	32.090	188.8 *	32.140	200.7 *	32.060	181.7	32.090	186.2	31.650	90.66
5	32.070	188.9	32.250	228.2 *	32.100	191.1 *	32.120	189.6	32.380	262.9 *	31.720	111.9
6	32.200	215.4 *	32.130	198.3 *	31.980	163.9 *	32.280	236.0 *	32.085	186.9	31.700	109.5
7	32.310	243.9 *	31.930	153.2 *	32.070	184.1 *	32.150	200.7	32.220	220.5 *	31.400	60.88
8	32.200	215.4 *	32.000	168.3 *	32.010	170.5 *	32.570	318.2 *	32.300	241.2 *	31.390	60.67 *
9	32.105	196.1	32.100	191.1 *	32.150	203.1 *	32.350	254.7 *	32.180	210.5 *	31.400	60.54
10	32.005	178.6	32.000	168.3 *	32.250	228.2 *	32.000	179.0	32.050	179.5 *	31.410	62.74
11	31.890	157.0	31.900	146.9 *	32.200	215.4 *	32.400	268.5 *	31.965	162.0	31.320	51.84
12	31.965	161.0	31.720	112.1 *	32.250	228.2 *	32.250	228.2 *	31.990	167.6	31.300	49.11
13	32.050	179.5 *	32.070	184.1 *	31.980	163.9 *	32.450	282.7 *	32.270	233.3 *	31.310	50.95
14	31.920	151.1 *	32.100	191.1 *	32.300	241.2 *	32.440	279.8 *	32.300	241.2 *	31.630	96.53 *
15	32.220	220.5 *	31.700	108.6 *	32.065	183.1	32.120	192.6	32.090	191.1	31.480	73.13 *
16	32.250	228.2 *	32.000	168.3 *	32.200	215.4 *	32.220	220.5 *	32.230	223.0 *	31.420	62.31
17	32.150	203.1 *	32.050	179.5 *	32.100	188.2	32.150	201.6	31.820	130.9 *	31.400	60.96
18	32.250	228.2 *	31.950	157.4 *	32.055	183.7	32.230	223.0 *	32.200	215.4 *	32.000	179.1
19	32.050	179.5 *	32.100	191.1 *	32.250	228.2 *	32.140	200.4	31.980	178.8	32.030	180.4
20	32.100	191.1 *	32.150	203.1 *	32.110	189.6	32.460	285.6 *	31.720	112.1 *	31.750	115.7
21	32.260	230.7 *	32.050	179.5 *	32.150	203.1 *	32.150	200.0	31.710	111.0	31.600	91.59 *
22	32.200	215.4 *	32.000	168.3 *	32.010	178.5	32.450	282.7 *	32.025	178.1	31.600	91.59 *
23	32.220	220.5 *	31.850	136.8 *	32.450	282.7 *	32.035	185.1	32.015	176.3	31.660	92.43
24	32.350	254.7 *	31.820	130.9 *	32.300	241.2 *	32.095	189.8	32.000	168.3 *	31.740	112.8
25	32.250	228.2 *	31.850	136.8 *	32.090	187.1	32.250	228.2 *	31.740	116.7	31.430	63.40
26	32.280	236.0 *	32.050	179.5 *	32.450	282.7 *	31.950	185.9	31.740	118.4	31.660	99.66
27	32.350	254.7 *	31.920	151.1 *	32.280	236.0 *	31.900	146.9 *	32.200	215.4 *	31.740	113.2
28	32.250	228.2 *	32.000	168.3 *	32.300	241.2 *	31.970	170.8	32.250	228.2 *	32.000	175.2
29	32.280	236.0 *	32.170	208.0 *	32.340	252.0 *	32.320	246.6 *	32.135	194.2	31.920	151.1 *
30	32.100	191.1 *	32.080	186.4 *			32.250	228.2 *	32.060	172.0	32.220	220.5 *
31	32.220	220.5 *	32.150	203.1 *			32.200	215.4 *			32.005	178.0
-Daily M												
Ten-Dai	32.180	214.3	32.069	184.4	32.126	197.8	32.251	230.5	32.172	209.1	31.677	109.5
Ten-Dai	32.084	189.9	31.974	164.2	32.151	203.7	32.286	238.3	32.057	185.6	31.564	92.01
Ten-Da	32.251	228.7	31.995	168.1	32.263	233.8	32.143	207.2	31.987	167.9	31.780	126.3
Monthly												
Min.	31.890	151.1	31.700	108.6	31.980	163.9	31.900	146.9	31.710	111.0	31.300	49.11
Max.	32.380	262.9	32.250	228.2	32.450	282.7	32.570	318.2	32.380	262.9	32.230	223.0
Mean	32.174	211.5	32.012	172.1	32.177	211	32.224	224.8	32.072	187.5	31.677	109.8

Peak Computed Discharge = 7468 cumecs on 21/06/2015 Corres. Water Level :40.5 m

Lowest Computed Discharge = 60.67 cumecs on 08/05/2016 Corres. Water Level :31.39 m

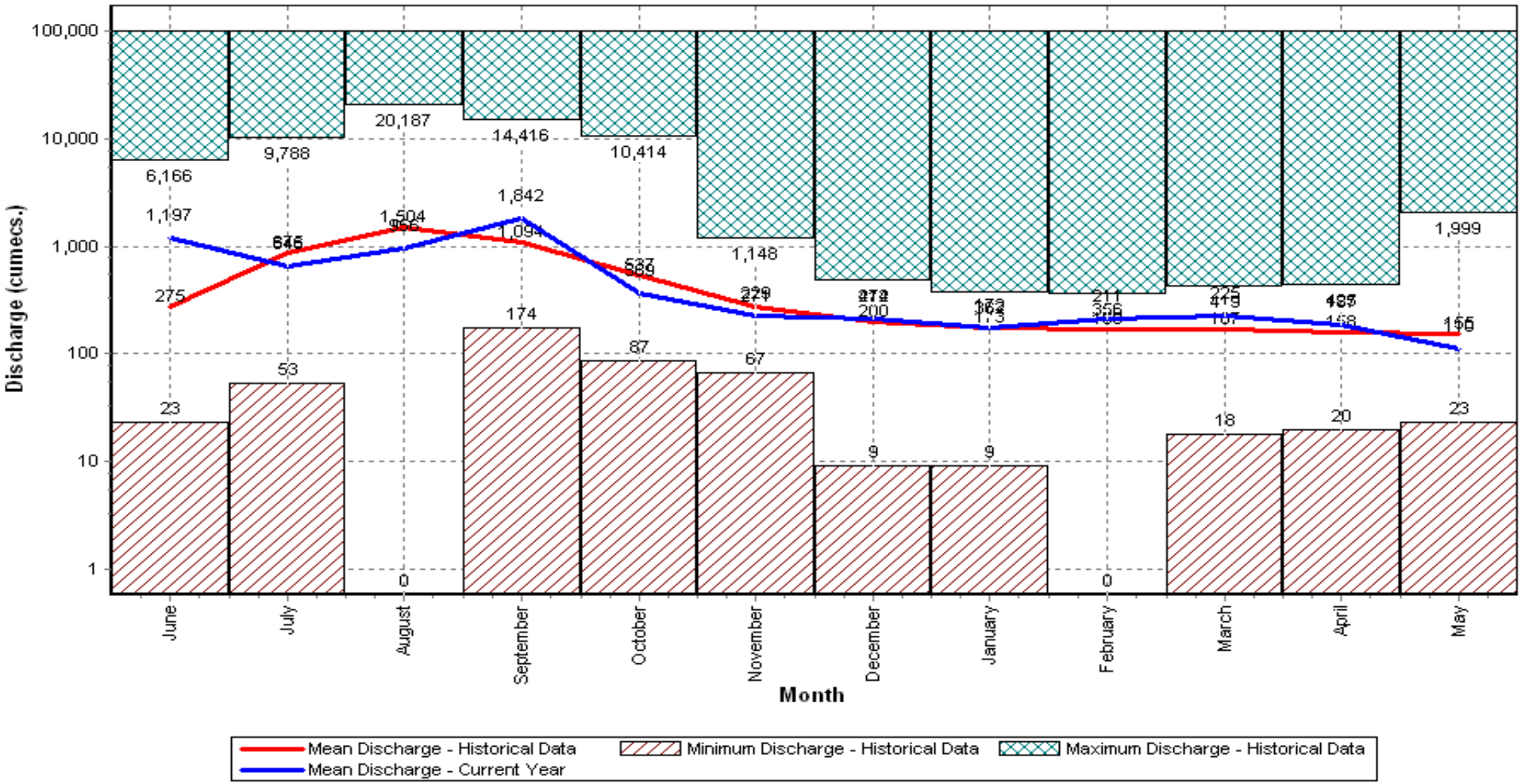
Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016

Station Name : Konta (AGC00C5) **Data considered : 1966-2016** **Division : Lower Godavari Div., Hyderabad**

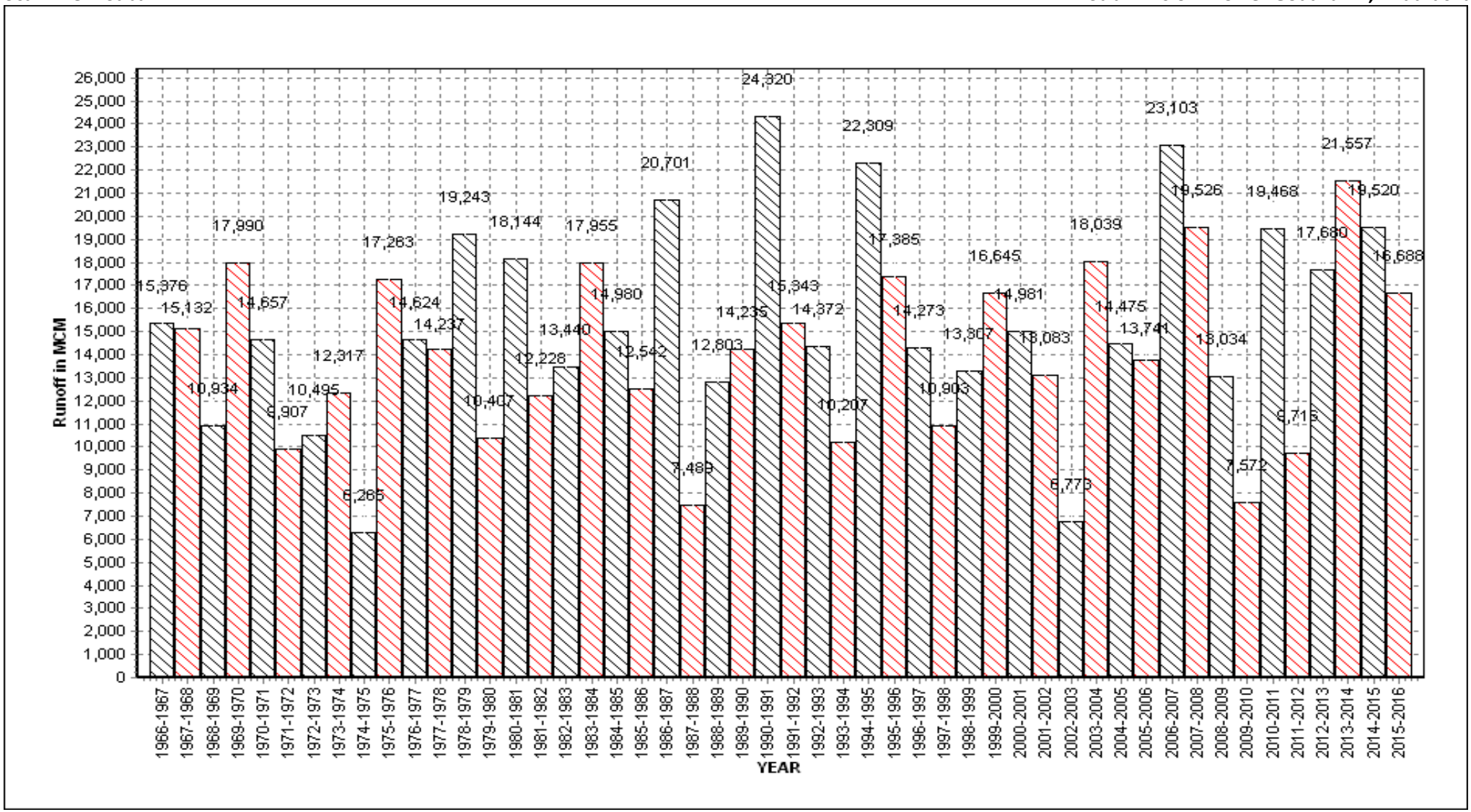
Local River : Sabari **Sub-Division : Lower Godavari 1, Bhadrachalam**



Annual Runoff Values for the period: 1966 - 2016

Station Name : Konta (AGC00C5) **Division : Lower Godavari Div., Hyderabad**

Local River : Sabari **Sub-Division : Lower Godavari 1, Bhadrachalam**



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

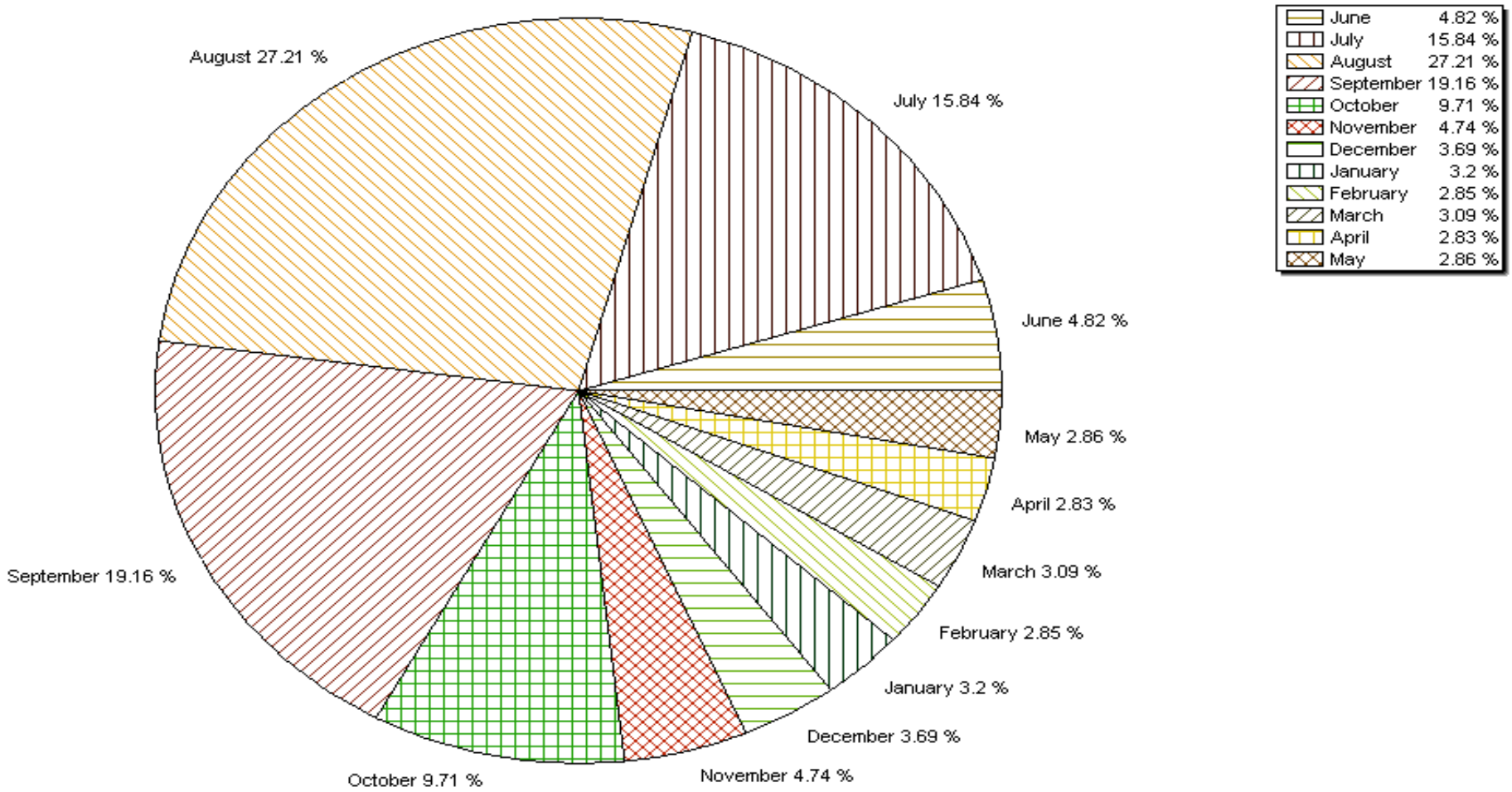
Monthly Average Runoff based on period : 1966-2015

Station Name : Konta (AGC00C5)

Local River : Sabari

Division : Lower Godavari Div., Hyderabad

Sub-Division : Lower Godavari 1, Bhadrachalam



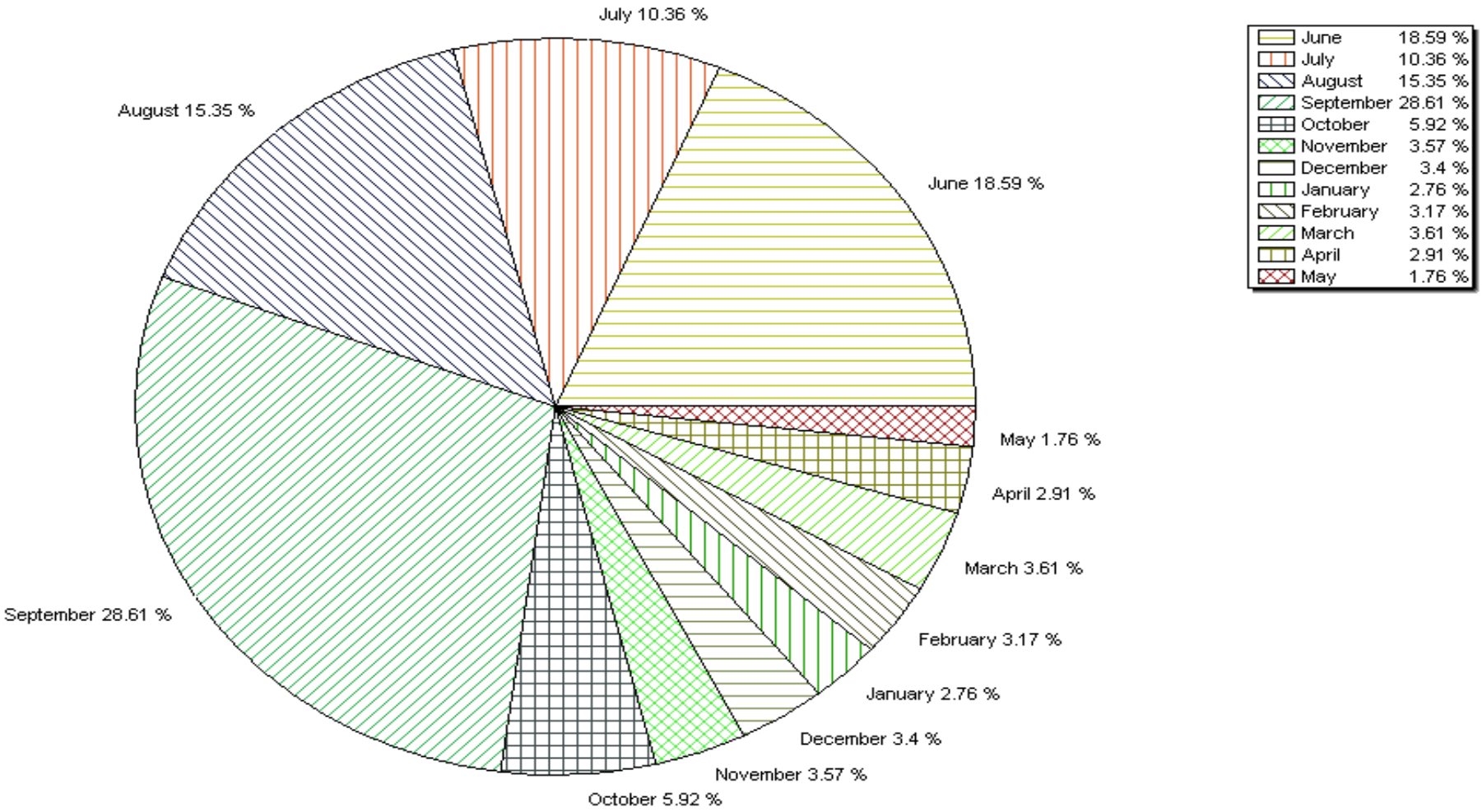
Monthly Runoff for the Year : 2015-2016

Station Name : Konta (AGC00C5)

Local River : Sabari

Division : Lower Godavari Div., Hyderabad

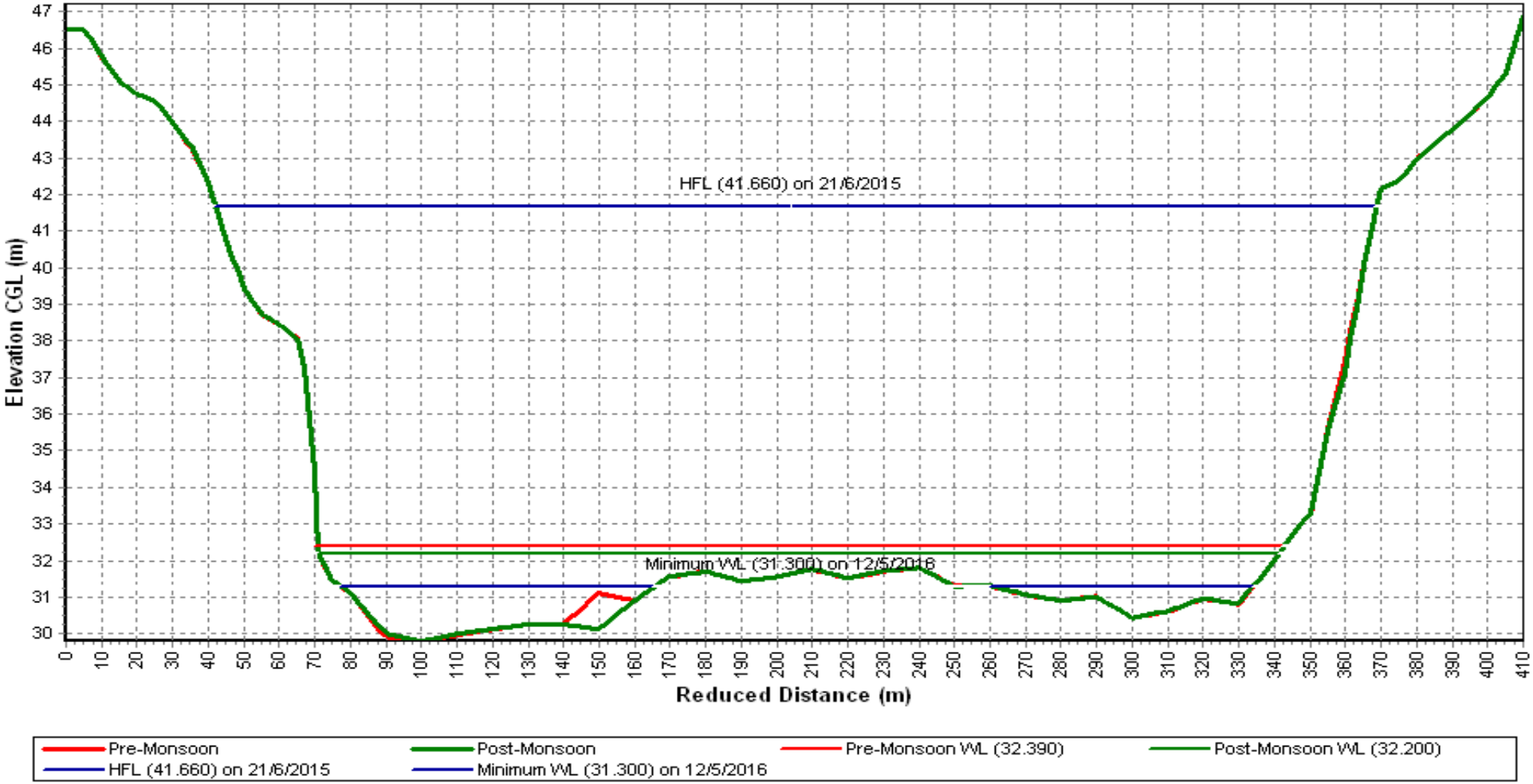
Sub-Division : Lower Godavari 1, Bhadrachalam



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

Station Name : Konta (AGC00C5) **Division : Lower Godavari Div., Hyderabad**

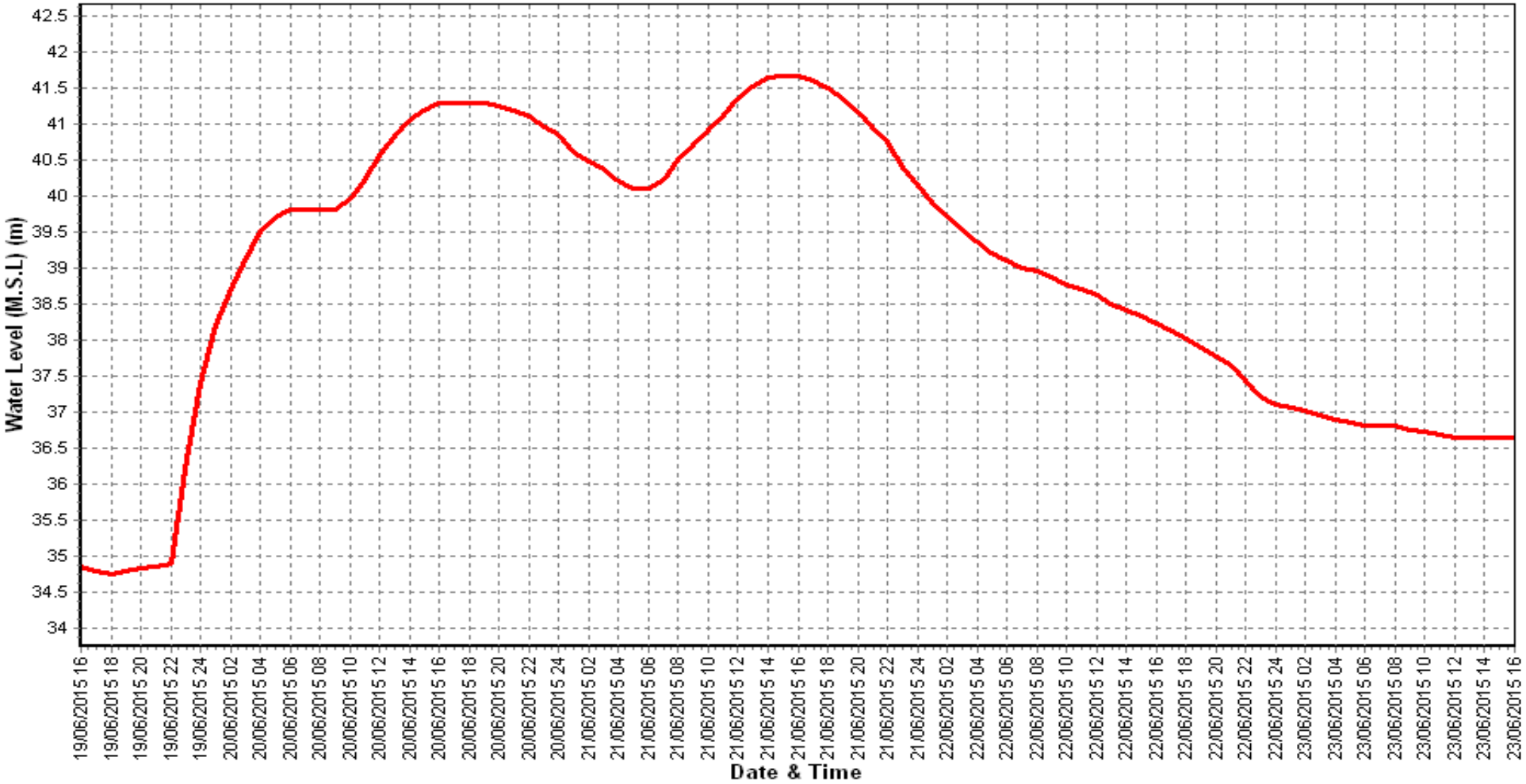
Local River : Sabari **Sub-Division : Lower Godavari 1, Bhadrachalam**



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

Station Name : Konta (AGC00C5) **Division : Lower Godavari Div., Hyderabad**

Local River : Sabari **Sub-Division : Lower Godavari 1, Bhadrachalam**

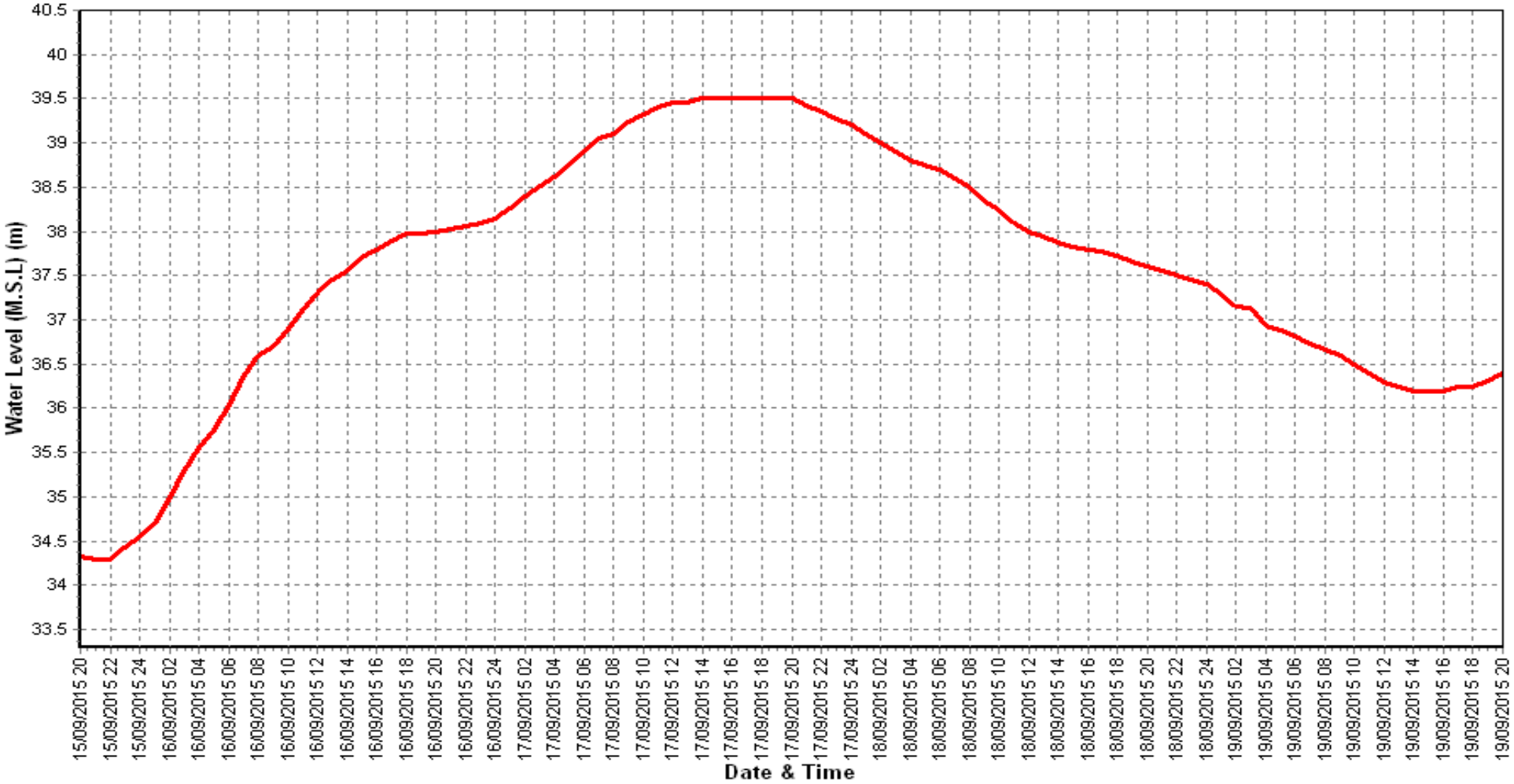


Time Span: 96 Hrs

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

Station Name : Konta (AGC00C5) **Division : Lower Godavari Div., Hyderabad**

Local River : Sabari **Sub-Division : Lower Godavari 1, Bhadrachalam**

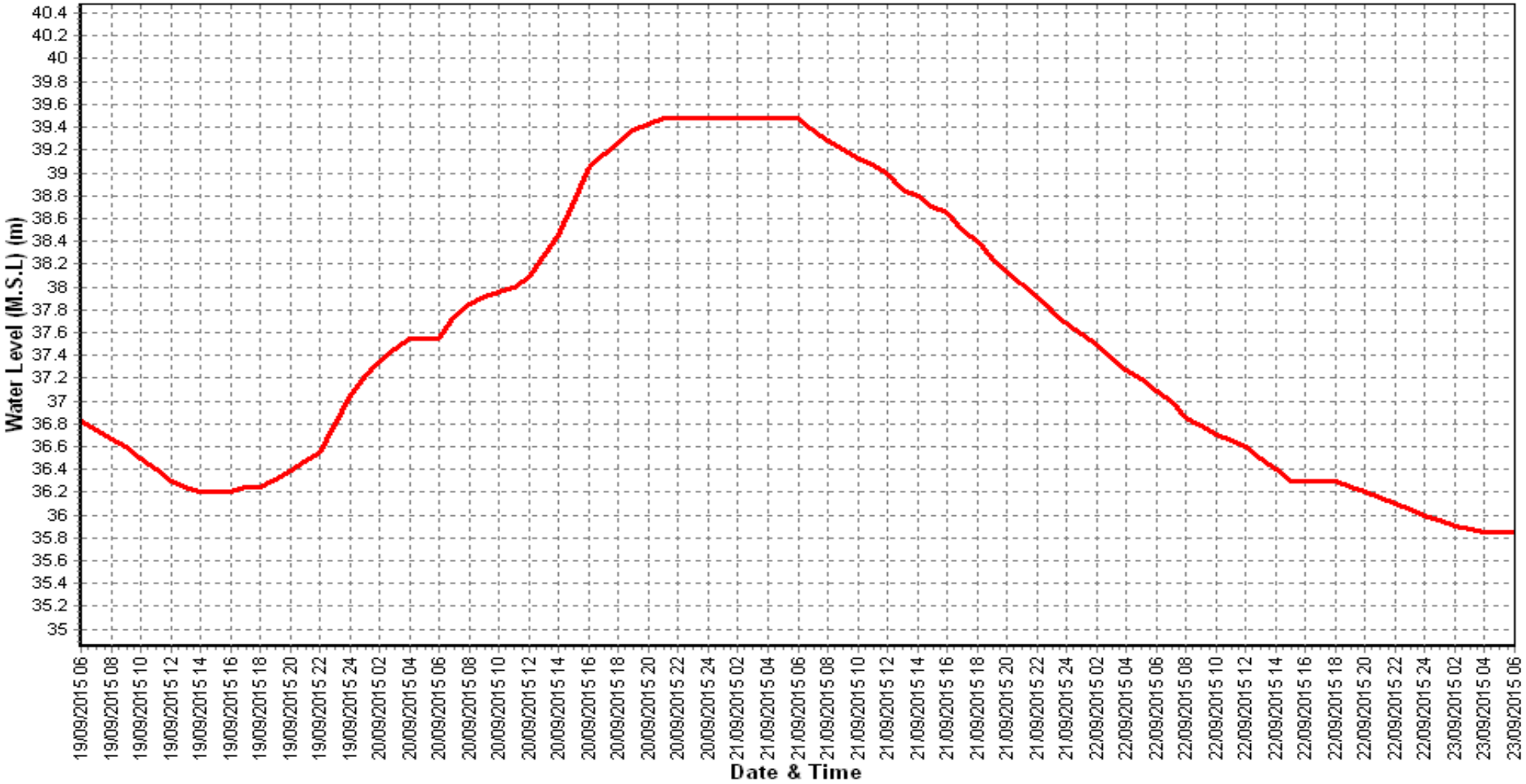


Time Span: 96 Hrs

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

Station Name : Konta (AGC00C5) **Division : Lower Godavari Div., Hyderabad**

Local River : Sabari **Sub-Division : Lower Godavari 1, Bhadrachalam**



Time Span: 96 Hrs

HISTORY SHEET

			Water Year	:	**2015-2016**
Site	:	**Potteru (Seasonal)**	**Code**	:	**AGC20H2**
State	:	Orissa	District		Malkangiri
Basin	:	Godavari	Independent River	:	Godavari
Tributary	:	Sabari	Sub Tributary	:	Potteruvagu
Sub-Sub Tributary	:	-	Local River	:	Potteru vagu
Division	:	Lower Godavari Div., Hyderabad	Sub-Division	:	Lower Godavari 2, Rajahmundry
Drainage Area	:	1120 Sq. Km.	Bank	:	Right
Latitude	:	18°11'13"	Longitude	:	81°47'40"
Zero of Gauge (m)	:	120.5 (m.s.l)	26.03.1989		
		Opening Date	Closing Date		
Gauge	:	26.03.1989	**HFL During 2015-16**	:	**131.280**
			Corres. Discharge	:	**2716.383 Cumes(Estimated)**
Discharge	:	20.05.1997	**Date & Time of**	:	**20.06.2015**
			Occurance	:	**19:00 hrs.**
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**
1997-1998	542.8	125.460	28.08.1997	0.013	121.480	02.06.1997
1998-1999	211.7	123.560	06.10.1998	8.689	121.720	26.05.1999
1999-2000	793.3	126.250	18.06.1999	7.220	121.700	26.04.2000
2000-2001	217.9	123.615	13.07.2000	6.003	123.055	19.02.2001
2001-2002	439.5	126.180	18.08.2001	5.137	123.015	11.05.2002
2002-2003	305.0	125.325	09.08.2002	0.964	122.915	27.05.2003
2003-2004	1657	129.150	06.08.2003	3.860	122.820	07.06.2003
2004-2005	941.4	127.600	04.08.2004	11.52	123.140	22.03.2005
2005-2006	638.6	126.850	20.09.2005	6.819	123.070	19.07.2005
2006-2007	3331	131.990	04.08.2006	7.144	122.970	10.07.2006
2007-2008	1087	128.100	07.10.2007	26.45	123.360	14.07.2007
2008-2009	783.3	127.540	10.08.2008	6.313	122.900	27.03.2009
2009-2010	289.1	125.400	31.08.2009	4.100	123.030	16.11.2009
2010-2011	1024	128.140	25.07.2010	9.639	123.150	30.10.2010
2011-2012	308.1	125.420	01.09.2011	1.812	123.045	25.11.2011
2012-2013	512.1	126.520	21.09.2012	3.000	122.820	02.06.2012
2013-2014	389.0	125.980	06.08.2013	27.04	123.380	19.10.2013
2014-2015	893.8	128.200	13.10.2014	9.955	123.100	07.10.2014

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

Stage-Discharge Data for the period 2015 - 2016

Station Name : Potteru (Seasonal) (AGC20H2) **Division : Lower Godavari Div., Hyderabad**

Local River : Potteru vagu **Sub-Division : Lower Godavari 2, Rajahmundry**

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	123.410	27.14 *	123.705	43.41	124.130	75.81	125.115	236.1	123.890	76.00	123.510	34.21 *
2	123.830	67.51	123.905	54.65	123.540	36.47 *	124.745	182.9	123.460	30.59 *	123.480	32.02 *
3	123.615	57.61	124.125	67.67	123.850	50.54	124.690	172.6	123.380	24.14	123.610	41.99 *
4	123.400	44.36	124.495	143.3	123.840	50.20	124.140	91.22	123.320	21.36 *	123.480	32.02 *
5	123.745	59.33	124.040	83.37 *	123.830	44.59	123.825	87.90	123.370	24.31	123.505	38.72
6	123.675	54.51	123.800	45.84	123.805	43.77	124.340	119.9 *	123.325	23.23	123.520	38.75
7	123.500	33.47 *	123.785	43.77	123.855	51.77	123.760	59.76	123.270	15.83	123.360	24.26
8	123.510	33.25	124.155	96.46	123.775	48.89	124.005	82.79	123.240	13.97	123.310	20.75 *
9	123.560	38.01 *	123.590	47.30	124.440	133.4 *	124.070	92.79	123.220	7.540	123.140	4.860
10	123.865	64.43	123.710	40.46	124.500	176.2	123.945	81.31	123.210	7.128	123.600	41.18 *
11	123.675	58.65	124.035	76.18	124.715	188.5	124.130	98.04	123.200	14.54 *	123.480	32.02 *
12	123.670	47.63	123.830	61.55 *	123.890	57.64	123.770	60.75	123.190	12.14	123.900	68.48 *
13	123.770	48.46	123.960	131.6	125.165	269.2	123.670	46.99 *	123.520	36.76	123.110	10.08 *
14	123.520	34.96 *	124.425	115.2	124.015	63.74	123.680	52.63	123.545	34.62	123.815	64.37
15	123.605	46.23	124.160	87.25	124.030	82.26 *	123.750	58.39	123.210	6.654	123.090	9.171 *
16	124.188	94.83	124.035	74.23	123.970	75.76 *	124.870	208.9	123.205	7.105	123.415	29.71
17	123.950	84.62	123.925	56.56	124.060	80.35	125.970	427.9 *	123.830	66.12	123.425	29.20
18	123.740	47.44	123.780	56.81 *	124.165	90.07	124.810	212.8	123.980	76.82 *	123.445	32.48
19	124.633	174.9	123.380	25.15 *	124.105	85.74	125.083	233.4	123.700	57.00	123.550	41.88
20	127.800	994.6 *	123.540	34.65	124.240	92.37	127.800	994.6 *	123.480	36.40	123.600	45.66
21	127.500	885.7 *	123.865	48.29	124.310	111.0	125.345	276.3	123.740	61.83	123.485	32.48
22	125.560	333.0 *	123.500	25.73	124.540	138.4	124.620	165.4	123.720	51.35 *	123.750	54.05 *
23	125.110	242.3 *	123.955	47.71	123.920	70.53 *	124.295	122.7	123.720	58.36	123.520	39.35
24	124.070	86.74 *	124.310	112.0	124.210	94.88	124.030	92.51	123.870	65.47 *	123.465	33.91
25	123.790	57.74 *	124.085	80.71	123.685	56.59	123.930	71.56 *	123.660	46.14 *	123.490	32.74 *
26	123.780	56.81 *	123.670	46.99 *	123.785	64.54	123.820	66.28	123.985	69.84	123.400	28.98
27	123.900	68.48 *	123.930	54.19	123.655	54.43	124.560	150.6 *	123.525	41.86	123.400	27.75
28	123.700	49.58 *	123.480	25.26	125.253	244.2	123.670	48.92	123.665	51.83	123.308	20.09
29	123.710	54.61	123.450	20.03	124.810	198.7	123.545	35.66	123.520	37.58	123.550	37.24 *
30	123.560	47.07	123.960	55.07	125.350	288.9 *	123.815	63.41	123.315	22.48	123.475	32.18
31			124.025	69.18	126.700	626.0 *			123.210	6.675		
Daily Mean												
Ten-Dai	123.611	47.96	123.931	66.63	123.956	71.16	124.263	120.7	123.369	24.41	123.451	30.88
Ten-Da	124.255	163.2	123.907	71.91	124.235	108.6	124.753	239.4	123.486	34.82	123.483	36.31
Ten-Da	124.468	188.2	123.839	53.19	124.565	177.1	124.163	109.3	123.630	46.67	123.484	33.88
Monthly												
Min.	123.400	27.14	123.380	20.03	123.540	36.47	123.545	35.66	123.190	6.654	123.090	4.860
Max.	127.800	994.6	124.495	143.3	126.700	626.0	127.800	994.6	123.985	76.82	123.900	68.48
Mean	124.111	133.1	123.891	63.57	124.262	120.8	124.393	156.5	123.499	35.67	123.473	33.69

Annual Runoff in MCM = 1427 Annual Runoff in mm = 1274

Peak Observed Discharge = 276.3 cumecs on 21/09/2015 Corres. Water Level :125.345 m

Lowest Observed Discharge = 4.860 cumecs on 09/11/2015 Corres. Water Level :123.14 m

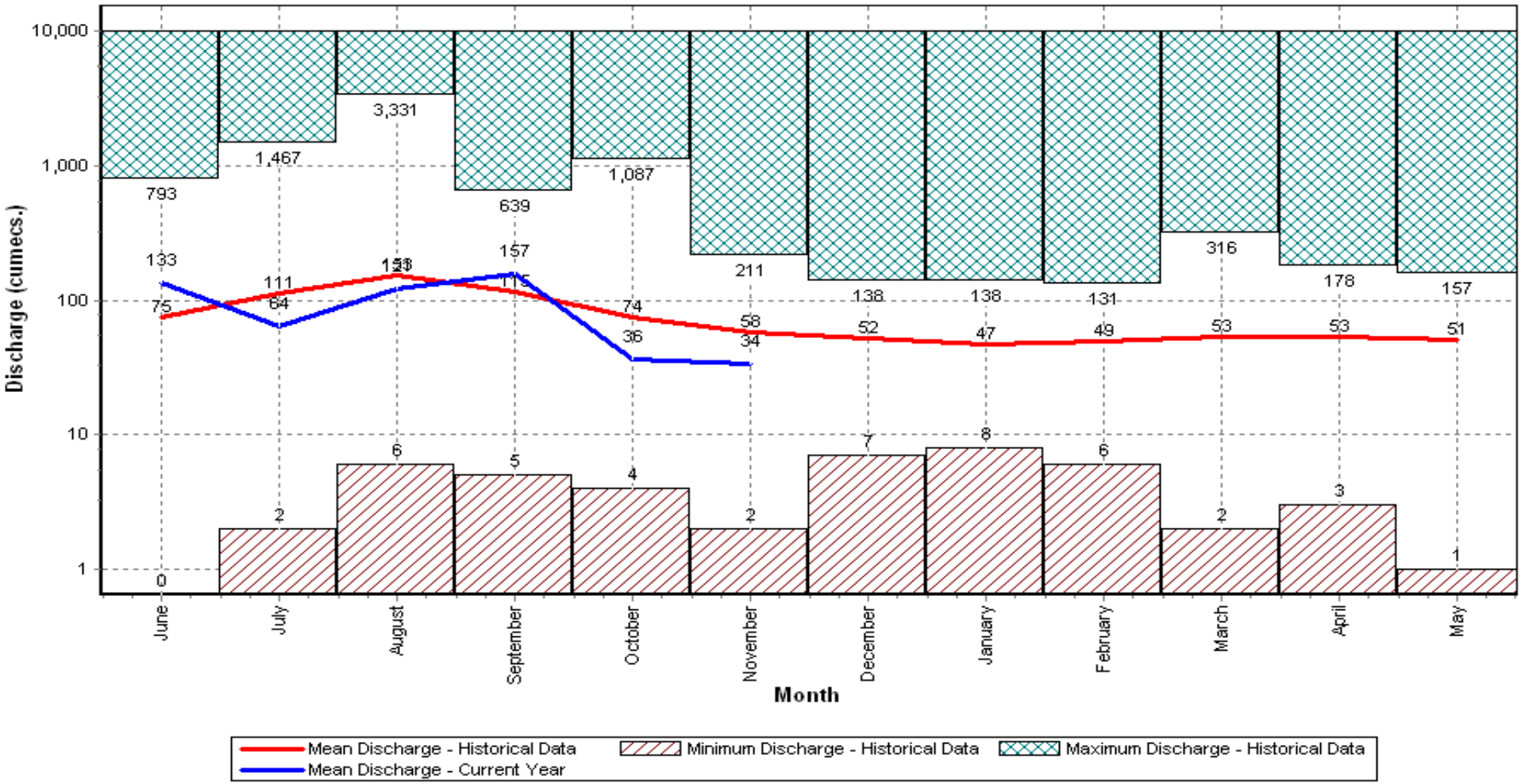
Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016

Station Name : Potteru (Seasonal) (AGC20H2) **Data considered : 1997-2016** **Division : Lower Godavari Div., Hyderabad**

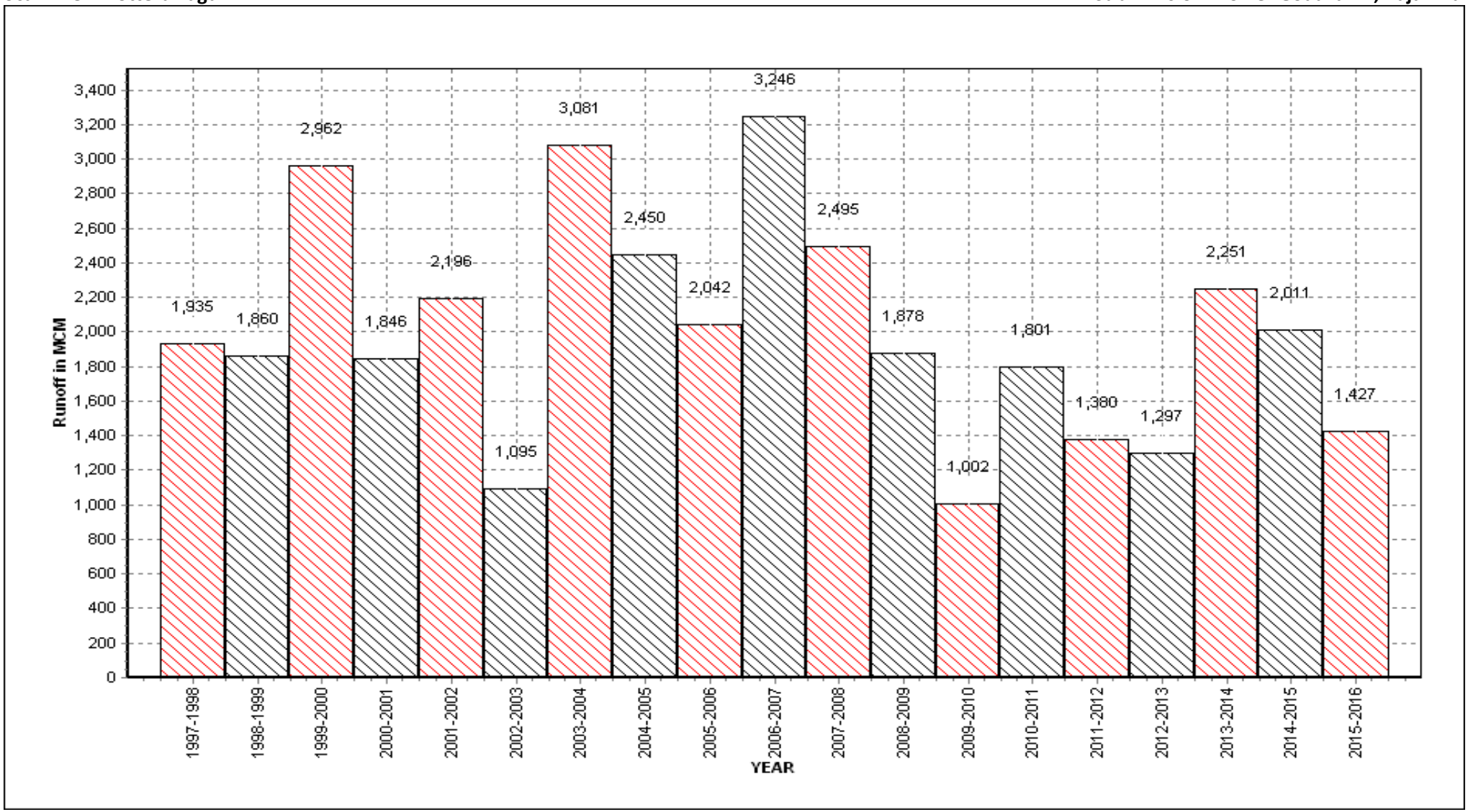
Local River : Potteru vagu **Sub-Division : Lower Godavari 2, Rajahmundry**



Annual Runoff Values for the period: 1997 - 2016

Station Name : Potteru (Seasonal) (AGC20H2) **Division : Lower Godavari Div., Hyderabad**

Local River : Potteru vagu **Sub-Division : Lower Godavari 2, Rajahmundry**

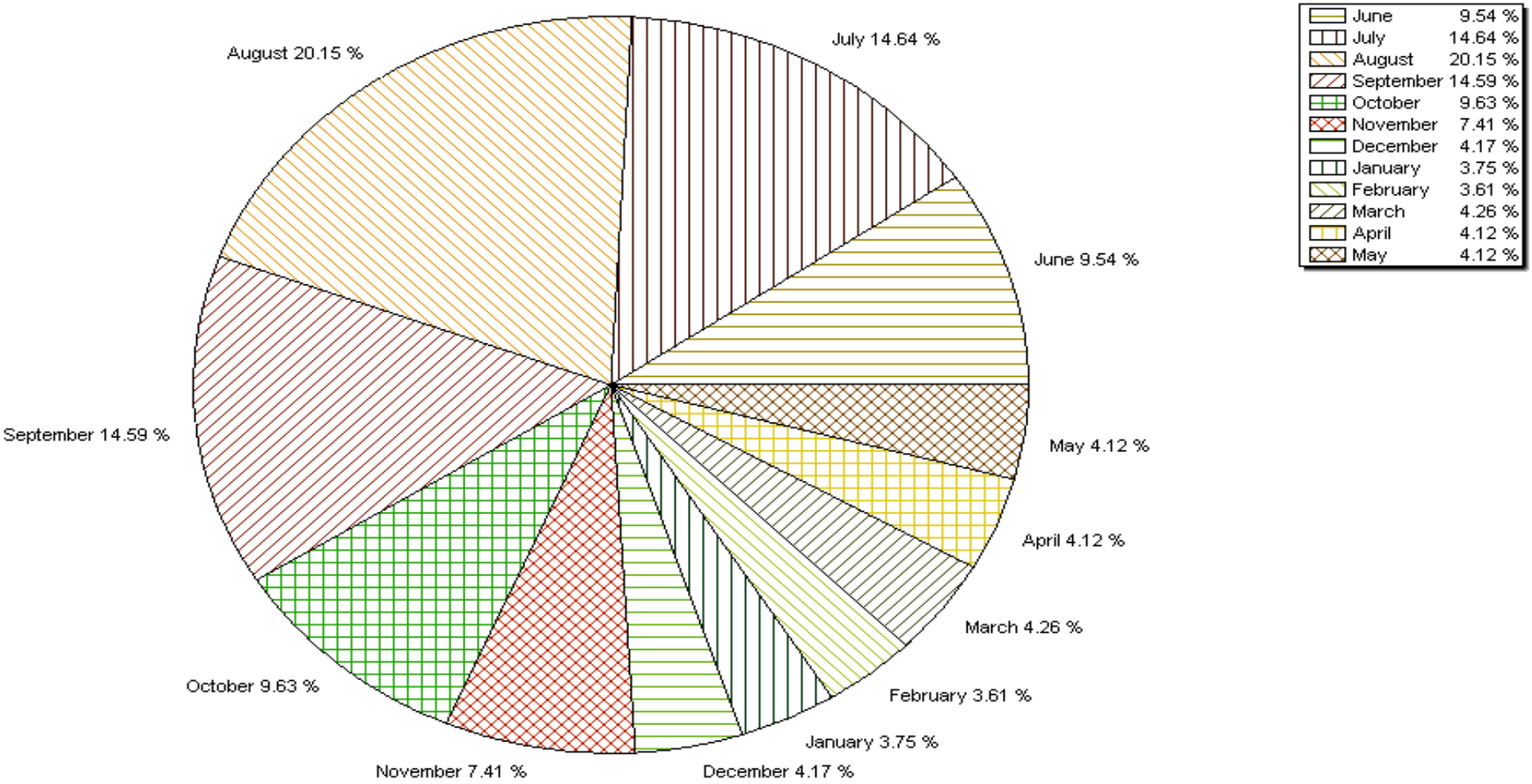


Note: Missing values have not been considered while arriving at Annual Runoff

Monthly Average Runoff based on period : 1997-2015

Station Name : Potteru (Seasonal) (AGC20H2) **Division : Lower Godavari Div., Hyderabad**

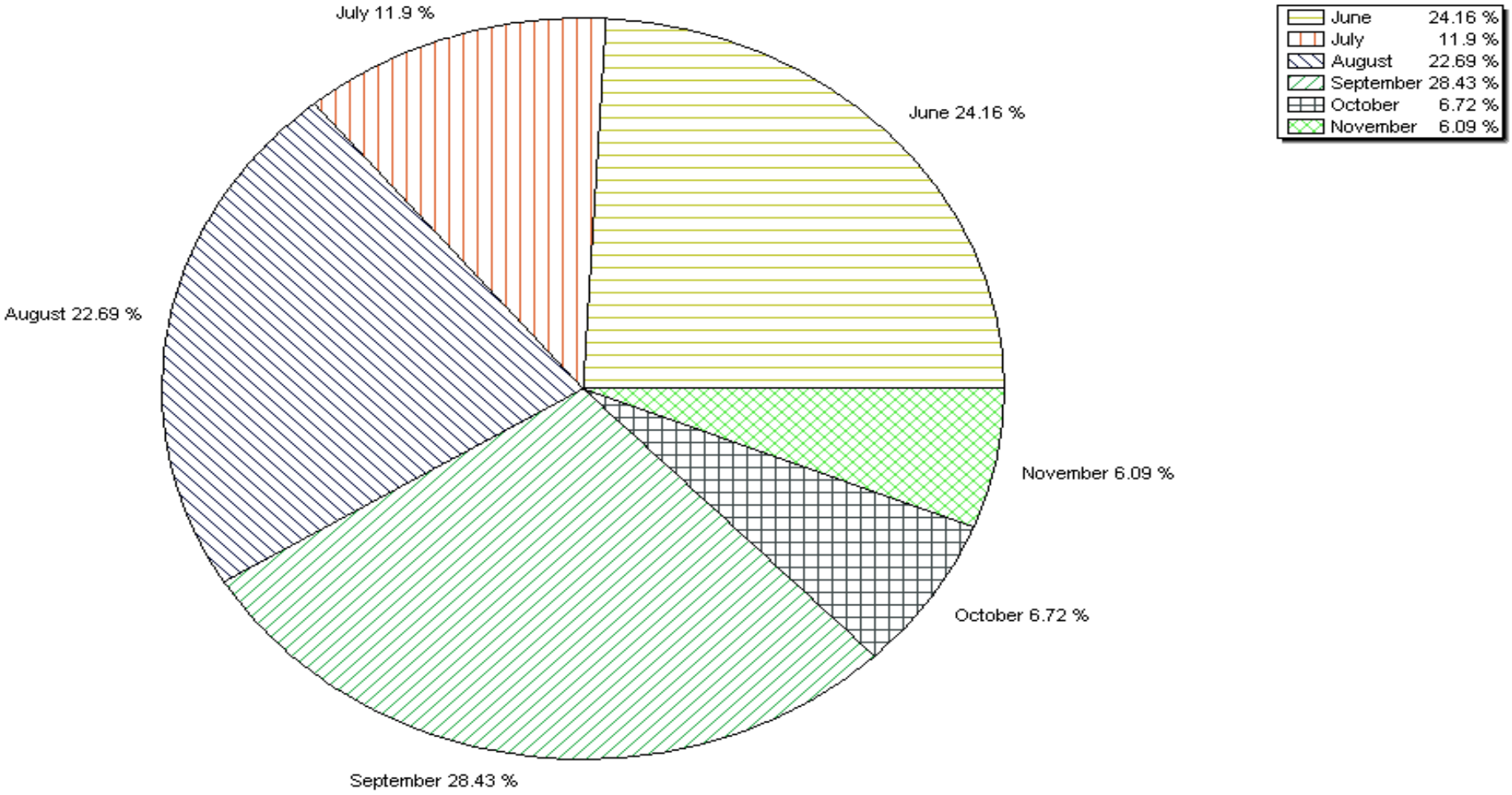
Local River : Potteru vagu **Sub-Division : Lower Godavari 2, Rajahmundry**



Monthly Runoff for the Year : 2015-2016

Station Name : Potteru (Seasonal) (AGC20H2) **Division : Lower Godavari Div., Hyderabad**

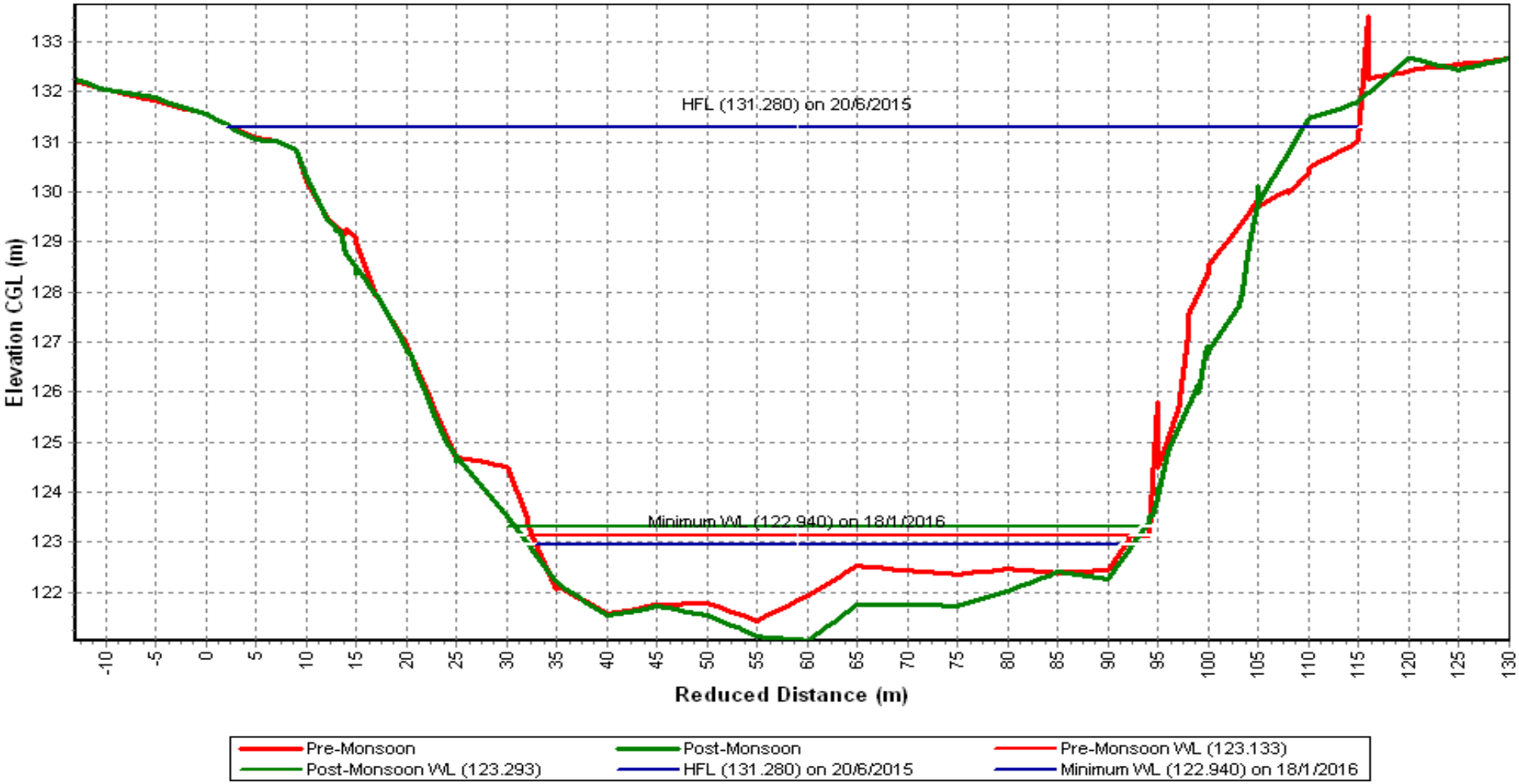
Local River : Potteru vagu **Sub-Division : Lower Godavari 2, Rajahmundry**



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

Station Name : Potteru (Seasonal) (AGC20H2) **Division : Lower Godavari Div., Hyderabad**

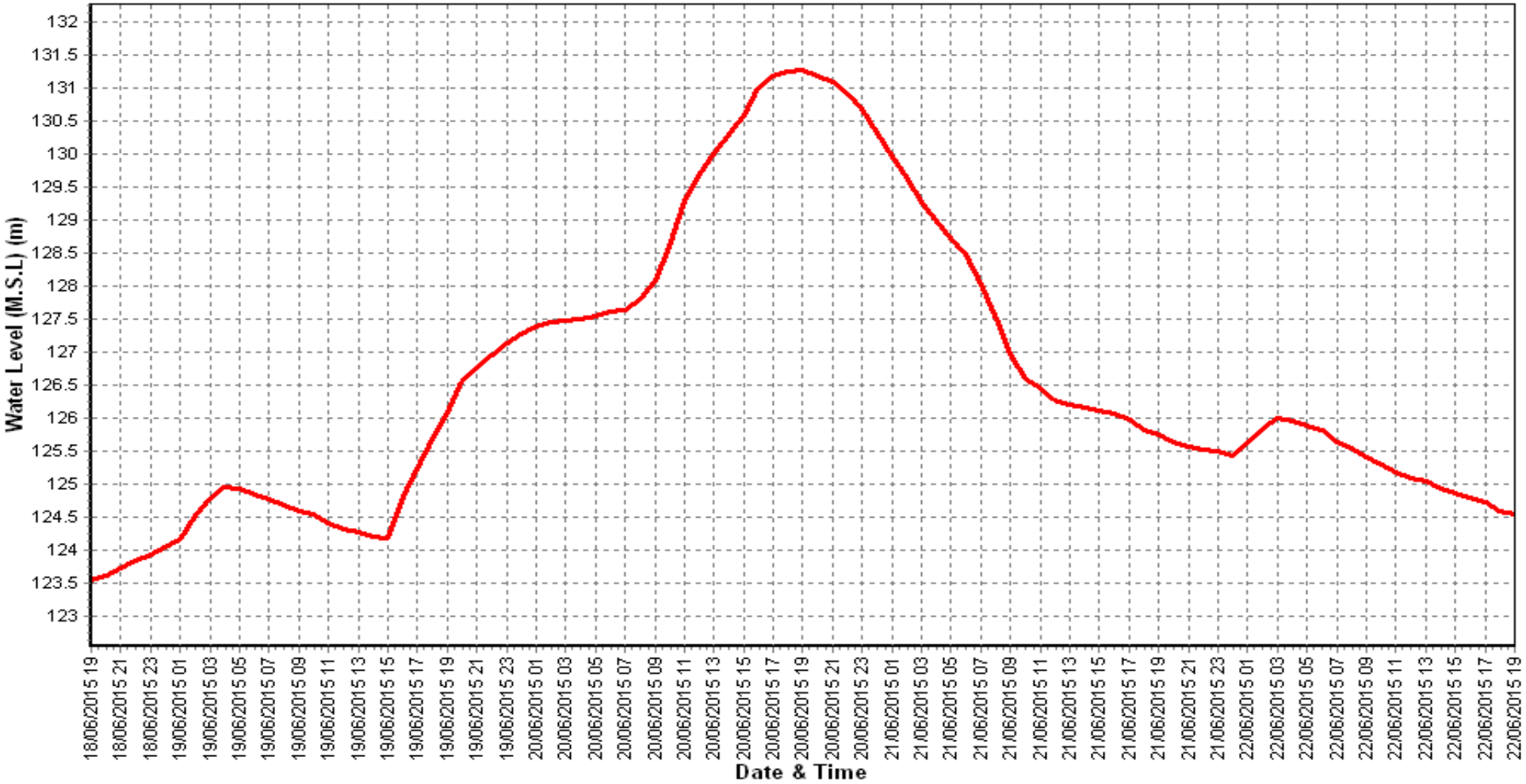
Local River : Potteru vagu **Sub-Division : Lower Godavari 2, Rajahmundry**



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

Station Name : Potteru (Seasonal) (AGC20H2) **Division : Lower Godavari Div., Hyderabad**

Local River : Potteru vagu **Sub-Division : Lower Godavari 2, Rajahmundry**

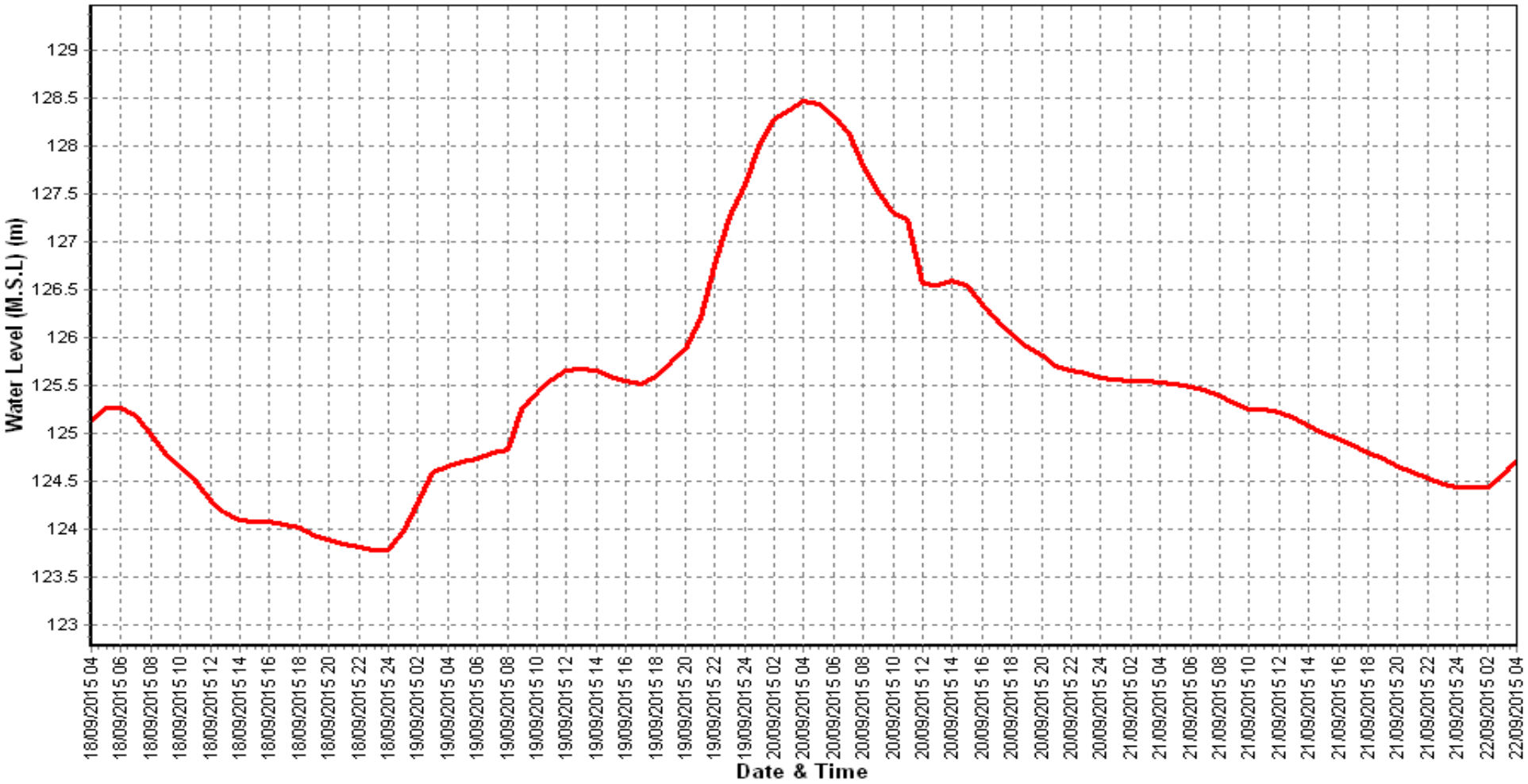


Time Span: 96 Hrs

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

Station Name : Potteru (Seasonal) (AGC20H2) **Division : Lower Godavari Div., Hyderabad**

Local River : Potteru vagu **Sub-Division : Lower Godavari 2, Rajahmundry**

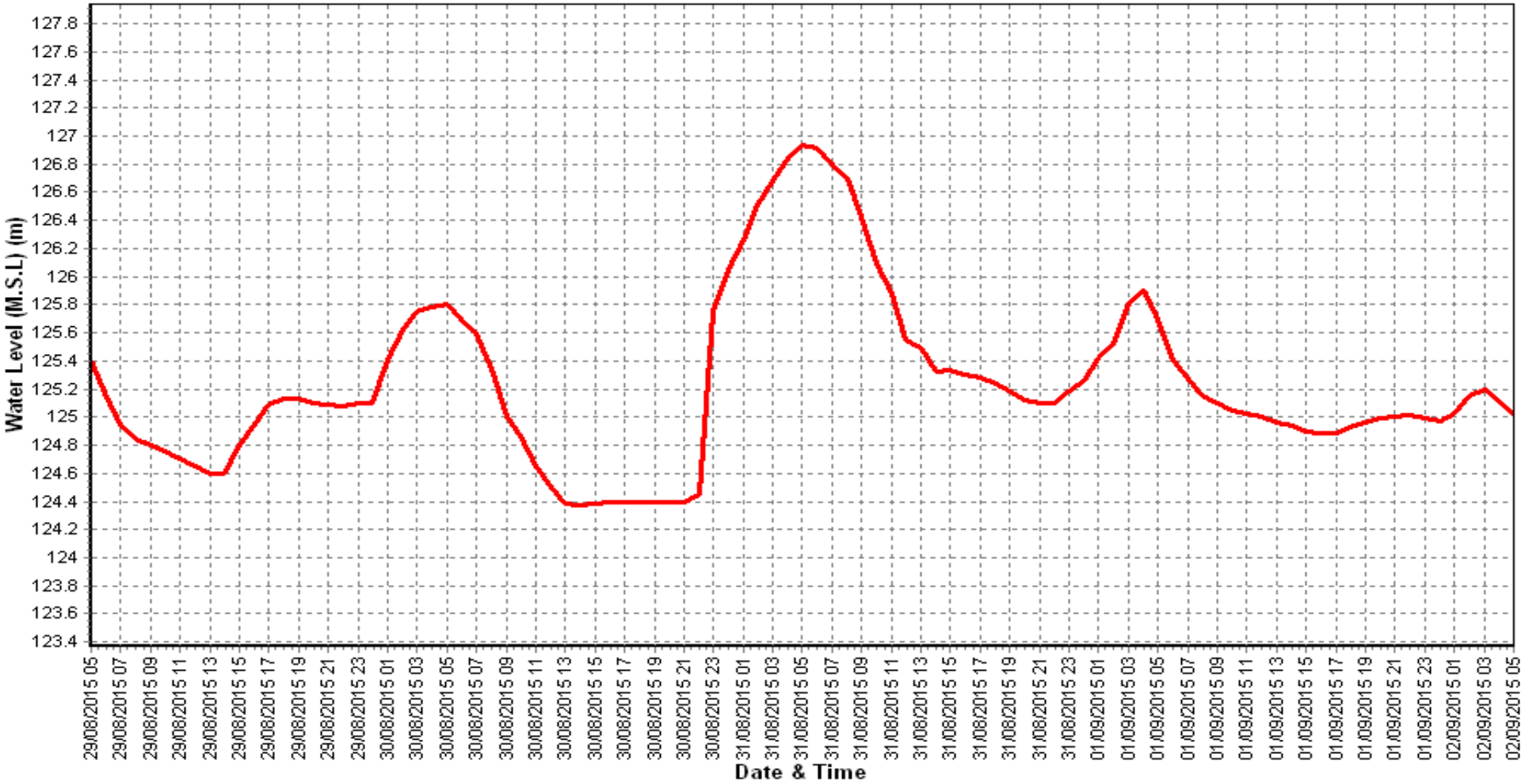


Time Span: 96 Hrs

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

Station Name : Potteru (Seasonal) (AGC20H2) **Division : Lower Godavari Div., Hyderabad**

Local River : Potteru vagu **Sub-Division : Lower Godavari 2, Rajahmundry**



Time Span: 96 Hrs

HISTORY SHEET

			Water Year	:	**2015-2016**
Site	:	**Saradaput**	**Code**	:	**AGC00N4**
State	:	Orissa	District		Malkangiri
Basin	:	Godavari	Independent River	:	Godavari
Tributary	:	Sabari	Sub Tributary	:	-
Sub-Sub Tributary	:	-	Local River	:	Sabari
Division	:	Lower Godavari Div., Hyderabad	Sub-Division	:	Lower Godavari 2, Rajahmundry
Drainage Area	:	3047 Sq. Km.	Bank	:	Left
Latitude	:	18°36'00"	Longitude	:	82°08'00"
Zero of Gauge (m)	:	88 (m.s.l)	11.01.1968	-	31.12.1969
		223.627 (m.s.l)	01.01.1970	-	31.05.1975
		223.972 (m.s.l)	01.06.1975	-	31.05.1997
		225.465 (m.s.l)	01.06.1997	-	20.08.1997
		224 (m.s.l)	21.08.1997		
		Opening Date	Closing Date		
Gauge	:	11.01.1968	**HFL During 2015-16**	:	**235.610**
			Corres. Discharge	:	**2107.735 Cumes(Estimated)**
Discharge	:	05.09.1970	**Date & Time of**	:	**16.09.2015**
			Occurance	:	**19:00 hrs.**
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**
1970-1971	2324	232.377	28.08.1970	11.80	224.847	10.05.1971
1971-1972	1663	230.915	05.09.1971	8.093	224.757	28.05.1972
1972-1973	3116	233.377	06.07.1972	6.520	224.747	17.05.1973
1973-1974	2616	232.827	14.07.1973	6.032	224.737	12.05.1974
1974-1975	1118	229.127	10.08.1974	6.164	224.667	25.05.1975
1975-1976	2853	232.887	09.09.1975	7.908	225.122	08.05.1976
1976-1977	2209	233.092	21.07.1976	6.704	225.102	23.03.1977
1977-1978	4792	237.182	22.08.1977	5.133	225.067	09.06.1977
1978-1979	2819	234.532	16.08.1978	5.715	225.032	11.06.1978
1979-1980	2285	232.210	25.06.1979	5.700	225.017	27.05.1980
1980-1981	3281	234.552	24.07.1980	9.891	225.167	26.05.1981
1981-1982	2063	232.457	09.08.1981	9.733	225.152	11.05.1982
1982-1983	3617	234.477	28.08.1982	7.314	225.112	10.06.1982
1983-1984	3120	233.837	26.06.1983	8.500	225.107	10.06.1983
1984-1985	5134	237.372	02.08.1984	9.227	225.127	07.05.1985
1985-1986	1396	230.332	17.08.1985	7.997	225.192	25.05.1986
1986-1987	7052	236.692	14.08.1986	9.700	225.157	20.04.1987
1987-1988	897.6	229.612	05.09.1987	9.480	225.177	30.03.1988
1988-1989	1411	231.037	18.07.1988	15.35	225.342	01.06.1988

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	1469	231.092	14.09.1989	17.19	225.312	30.01.1990
1990-1991	3153	234.112	05.10.1990	32.68	225.472	13.05.1991
1991-1992	1386	230.632	31.07.1991	25.75	225.412	26.05.1992
1992-1993	2846	234.072	15.08.1992	24.91	225.442	05.05.1993
1993-1994	1129	230.752	16.07.1993	15.60	225.242	26.04.1994
1994-1995	4570	237.147	05.09.1994	28.17	225.302	11.06.1994
1995-1996	2382	233.302	01.09.1995	31.25	225.422	29.04.1996
1996-1997	1815	232.472	21.07.1996	28.64	225.452	30.05.1997
1997-1998	879.7	231.175	22.08.1997	10.25	226.710	31.05.1998
1998-1999	1029	231.470	11.07.1998	9.934	226.690	06.03.1999
1999-2000	2593	234.350	18.06.1999	10.69	226.700	22.05.2000
2000-2001	1383	231.915	18.07.2000	9.069	226.650	31.03.2001
2001-2002	2012	233.400	08.07.2001	17.83	226.840	03.01.2002
2002-2003	1593	232.665	18.07.2002	7.157	226.690	09.01.2003
2003-2004	3187	234.850	08.10.2003	5.742	226.510	04.06.2003
2004-2005	3671	235.830	14.06.2004	25.43	226.830	12.01.2005
2005-2006	1766	232.870	13.09.2005	23.32	226.810	09.03.2006
2006-2007	6480	239.530	04.08.2006	29.90	226.920	06.03.2007
2007-2008	3046	234.950	07.10.2007	23.41	226.900	23.05.2008
2008-2009	1369	232.440	11.08.2008	19.47	226.800	14.02.2009
2009-2010	1013	231.335	21.07.2009	1.451	226.460	12.01.2010
2010-2011	2641	234.650	08.09.2010	15.28	226.750	09.06.2010
2011-2012	1615	233.060	02.09.2011	8.207	226.620	15.04.2012
2012-2013	2588	234.930	06.08.2012	10.77	226.580	08.06.2012
2013-2014	2849	235.200	14.06.2013	30.83	226.920	16.04.2014
2014-2015	1725	234.050	29.07.2014	22.35	226.850	04.04.2015

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

Stage-Discharge Data for the period 2015 - 2016

Station Name : Saradaput (AGC00N4) **Division : Lower Godavari Div., Hyderabad**

Local River : Sabari **Sub-Division : Lower Godavari 2, Rajahmundry**

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	227.435	87.29	228.200	183.8	227.265	75.72	230.800	728.1 *	228.130	173.4	227.280	69.82 *
2	226.975	35.50	228.000	180.7	227.270	68.64 *	231.630	934.0 *	228.370	227.6 *	227.280	69.82 *
3	227.240	67.46	227.720	125.9	227.485	92.56	230.770	721.0 *	228.175	188.2	227.270	68.64 *
4	227.650	127.5	227.970	168.6	227.360	85.94	229.675	488.4	228.080	180.5 *	227.235	66.00
5	227.510	95.38	228.050	175.8 *	227.300	73.60	229.120	371.5	227.995	174.4	227.230	65.73
6	227.780	138.9	228.020	171.1	227.765	132.0	228.760	295.9 *	227.880	135.5	227.310	78.17
7	227.950	160.5 *	227.675	118.4	227.270	74.52	228.730	276.4	227.788	126.6	227.250	71.55
8	227.390	75.06	227.395	87.30	227.488	102.1	228.730	282.9	227.735	124.7	227.210	61.73 *
9	227.300	71.31	227.390	85.89	227.370	80.64 *	228.728	274.1	227.670	113.8	227.355	82.98
10	227.315	76.70	227.420	90.88	227.943	143.2	228.590	245.1	227.640	109.0	227.280	75.51
11	227.640	121.4	227.490	110.5	228.450	240.5	228.248	206.0	227.640	115.8 *	227.520	99.68 *
12	227.885	155.5	227.540	102.3 *	228.090	189.8	228.253	196.0	227.618	106.0	227.130	52.96
13	227.700	129.1	227.595	111.9	230.048	585.1	229.000	340.4 *	227.590	105.9	227.120	51.58
14	227.980	165.0 *	227.400	86.87	230.490	655.3 *	228.855	299.2	227.570	94.99	227.100	49.79
15	227.300	74.13	228.485	254.2	229.220	382.9 *	231.320	855.3 *	227.600	97.52	227.020	41.39 *
16	228.525	264.4	228.510	250.0	228.760	295.9 *	234.550	1768 *	227.490	96.80	227.005	38.29
17	228.270	237.8	228.795	290.4	228.980	323.2	234.980	0.000 *	227.550	100.1	227.020	39.75
18	228.710	274.0	228.690	283.2 *	228.988	314.8	233.040	1317 *	227.660	118.5 *	227.035	40.31
19	228.560	257.5	228.390	231.0 *	228.725	290.7	231.290	847.8 *	227.520	98.49	227.080	47.08
20	228.160	188.4	228.160	199.1	228.275	204.4	234.540	1765 *	227.510	94.89	227.040	40.27
21	232.320	0.000 *	227.835	153.5	228.230	197.7	232.770	1241 *	227.558	104.1	227.020	38.68
22	230.680	699.6 *	227.950	166.9	228.345	225.8	231.610	928.8 *	227.350	78.19 *	226.990	38.41 *
23	230.650	692.6 *	228.460	240.9	228.270	211.0 *	230.220	593.8 *	227.340	73.42	226.970	34.41
24	229.340	381.0	228.665	267.2	228.335	216.0	229.500	423.7	227.350	78.19 *	226.970	34.33
25	228.460	253.5	228.515	251.2	228.405	230.8	229.340	406.7 *	227.360	79.41 *	226.960	35.50 *
26	228.570	268.5	228.190	198.0 *	228.180	189.3	229.020	336.6	227.350	81.24	226.960	32.61
27	228.280	197.6	228.010	170.0	229.515	458.7	228.880	317.9 *	227.335	79.14	226.950	32.93
28	228.200	199.6 *	227.875	147.9	230.220	593.8 *	228.515	247.5	227.270	69.56	226.950	34.15
29	228.305	210.0	227.665	124.7	230.100	567.1 *	228.305	201.4	227.320	77.07	226.950	34.54 *
30	228.095	188.2	227.440	91.67	229.520	443.2 *	228.190	192.4	227.405	80.87	226.940	33.55
31			227.335	76.04	229.645	471.9			227.303	75.20		
Daily Mean												
Ten-Dai	227.455	93.56	227.784	138.8	227.452	92.90	229.553	461.7	227.946	155.4	227.270	70.99
Ten-Da	228.073	186.7	228.105	191.9	229.002	348.3	231.408	759.5	227.575	102.9	227.107	50.11
Ten-Da	229.290	309.1	227.995	171.6	228.979	345.9	229.635	488.9	227.358	79.67	226.966	34.91
Monthly												
Min.	226.975	0.000	227.335	76.04	227.265	68.64	228.190	0.000	227.270	69.56	226.940	32.61
Max.	232.320	699.6	228.795	290.4	230.490	655.3	234.980	1768	228.370	227.6	227.520	99.68
Mean	228.273	196.4	227.962	167.6	228.494	265.1	230.199	570.1	227.618	111.6	227.114	52.01

Annual Runoff in MCM = 4183 Annual Runoff in mm = 1373

Peak Observed Discharge = 585.1 cumecs on 13/08/2015 Corres. Water Level :230.0475 m

Lowest Observed Discharge = 16.45 cumecs on 26/12/2015 Corres. Water Level :226.85 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

Stage-Discharge Data for the period 2015 - 2016

Station Name : Saradaput (AGC00N4) **Division : Lower Godavari Div., Hyderabad**

Local River : Sabari **Sub-Division : Lower Godavari 2, Rajahmundry**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	226.950	36.29	226.900	29.58	226.990	36.20	227.100	51.93	227.090	53.07	226.920	31.72 *
2	226.960	36.93	226.920	30.28	227.000	40.35	226.965	34.25	226.955	34.79	226.965	39.50
3	226.940	32.68	226.930	32.66 *	227.020	40.68	227.095	50.80	227.120	51.79 *	226.880	28.78
4	226.935	32.45	226.960	37.45	226.980	35.53	227.110	53.17	227.100	52.82	227.015	46.64
5	226.940	32.53	226.980	38.29	226.988	38.27	227.148	60.44	227.060	47.68	227.000	41.09
6	226.930	32.66 *	226.980	38.46	226.990	38.12	227.140	53.95 *	227.140	57.90	226.870	28.64
7	226.910	29.12	226.960	35.90	226.990	38.41 *	227.505	108.1	227.015	42.21	226.910	32.49
8	226.900	28.67	226.975	37.38	226.980	37.95	227.095	52.27	227.010	40.39 *	226.900	29.89 *
9	226.900	27.40	226.970	36.91	227.020	41.94	226.870	27.85	226.920	31.79	227.025	45.19
10	226.885	27.48	226.940	33.59 *	227.020	40.49	226.820	23.85	226.830	23.72 *	226.900	32.70
11	226.860	26.23	226.900	29.82	227.015	41.50	227.100	53.04	226.830	24.06	226.925	30.73
12	226.880	27.41	226.890	28.69	226.980	35.21	227.110	50.72 *	226.820	23.72	226.880	28.37
13	226.870	27.19 *	226.890	29.35	227.120	51.79 *	227.170	57.25 *	226.850	27.02	226.995	41.68
14	226.880	27.41	226.840	23.05	227.120	51.79 *	227.265	72.86	226.880	28.38	227.060	45.47 *
15	226.860	26.93	226.860	26.31 *	227.110	50.04	227.120	56.09	226.840	23.12	227.060	45.47 *
16	226.870	27.99	226.920	30.28	227.100	48.76	227.055	50.06	226.860	25.30	227.280	79.40
17	226.870	28.11	226.870	27.19 *	227.100	49.07	227.330	82.75	226.830	23.72 *	227.160	61.95
18	226.880	28.20	226.850	23.36	227.105	48.33	227.170	62.76	226.900	31.19	227.300	81.32
19	226.860	26.13	226.880	25.58	227.000	37.99	227.175	63.72	226.880	28.25	227.330	75.77 *
20	226.880	28.08 *	226.880	26.12	226.970	34.60	227.090	48.60 *	226.850	25.44 *	227.000	39.39 *
21	226.860	26.60	226.900	29.24	227.000	39.39 *	227.120	56.28	226.800	21.94	226.800	21.22 *
22	226.830	22.20	227.010	38.57	227.110	50.24	227.120	54.69	226.900	30.52	226.920	31.72 *
23	226.830	22.14	226.970	35.41	227.065	45.61	227.145	60.26	226.790	19.99	226.680	12.10 *
24	226.820	22.88 *	226.970	36.46 *	227.040	41.72	227.365	90.15	226.820	22.88 *	226.800	21.22 *
25	226.820	22.88 *	226.970	33.53	227.260	69.26	227.100	49.66 *	226.875	28.18	226.720	14.97 *
26	226.850	16.45	226.970	36.46 *	227.165	58.89	226.985	38.83	226.830	22.66	226.820	22.88 *
27	226.830	23.72 *	227.000	37.47	227.070	47.75	227.010	42.05	226.808	19.94	227.120	51.79 *
28	226.860	28.08	226.980	35.30	227.140	53.95 *	226.980	35.73	226.970	32.77	226.820	22.88 *
29	226.820	21.45	227.000	37.96	226.990	36.49	227.030	45.25	226.950	33.52	227.220	62.87 *
30	226.840	22.78	227.000	39.12			226.974	37.81	226.880	27.57	227.080	47.55 *
31	226.840	27.65	226.990	38.41 *			226.900	30.96			226.950	34.54 *
Daily M												
Ten-Dai	226.925	31.62	226.951	35.05	226.998	38.80	227.085	51.66	227.024	43.62	226.939	35.66
Ten-Da	226.871	27.37	226.878	26.98	227.062	44.91	227.159	59.78	226.854	26.02	227.099	52.96
Ten-Da	226.836	23.35	226.978	36.18	227.093	49.26	227.066	49.24	226.862	26.00	226.903	31.25
Monthly												
Min.	226.820	16.45	226.840	23.05	226.970	34.60	226.820	23.85	226.790	19.94	226.680	12.10
Max.	226.960	36.93	227.010	39.12	227.260	69.26	227.505	108.1	227.140	57.90	227.330	81.32
Mean	226.876	27.31	226.937	32.84	227.050	44.15	227.102	53.42	226.913	31.88	226.978	39.68

Peak Computed Discharge = 1768 cumecs on 16/09/2015 Corres. Water Level :234.55 m

Lowest Computed Discharge = 0.000 cumecs on 21/06/2015 Corres. Water Level :232.32 m

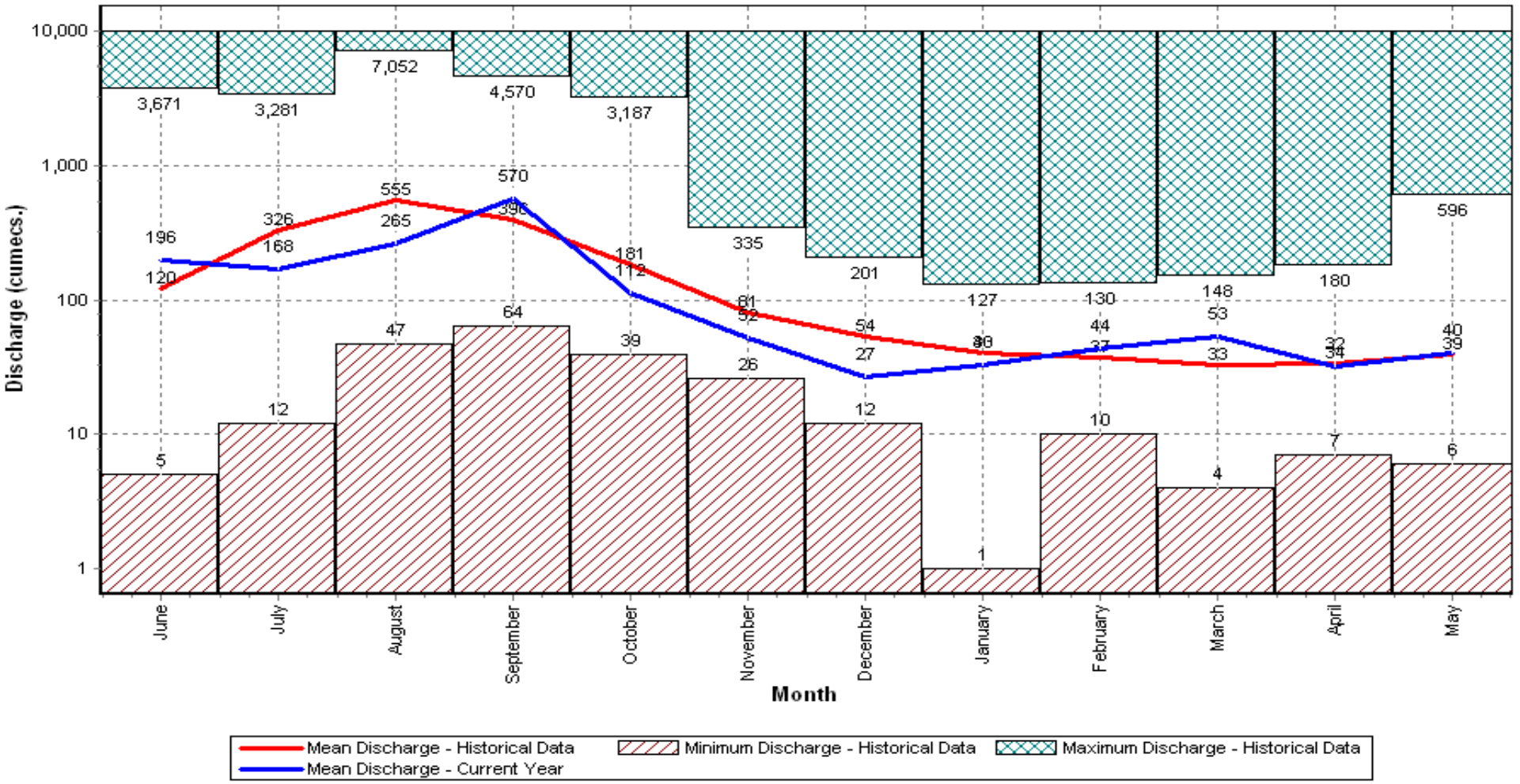
Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016

Station Name : Saradaput (AGC00N4) | **Data considered : 1970-2016** | **Division : Lower Godavari Div., Hyderabad**

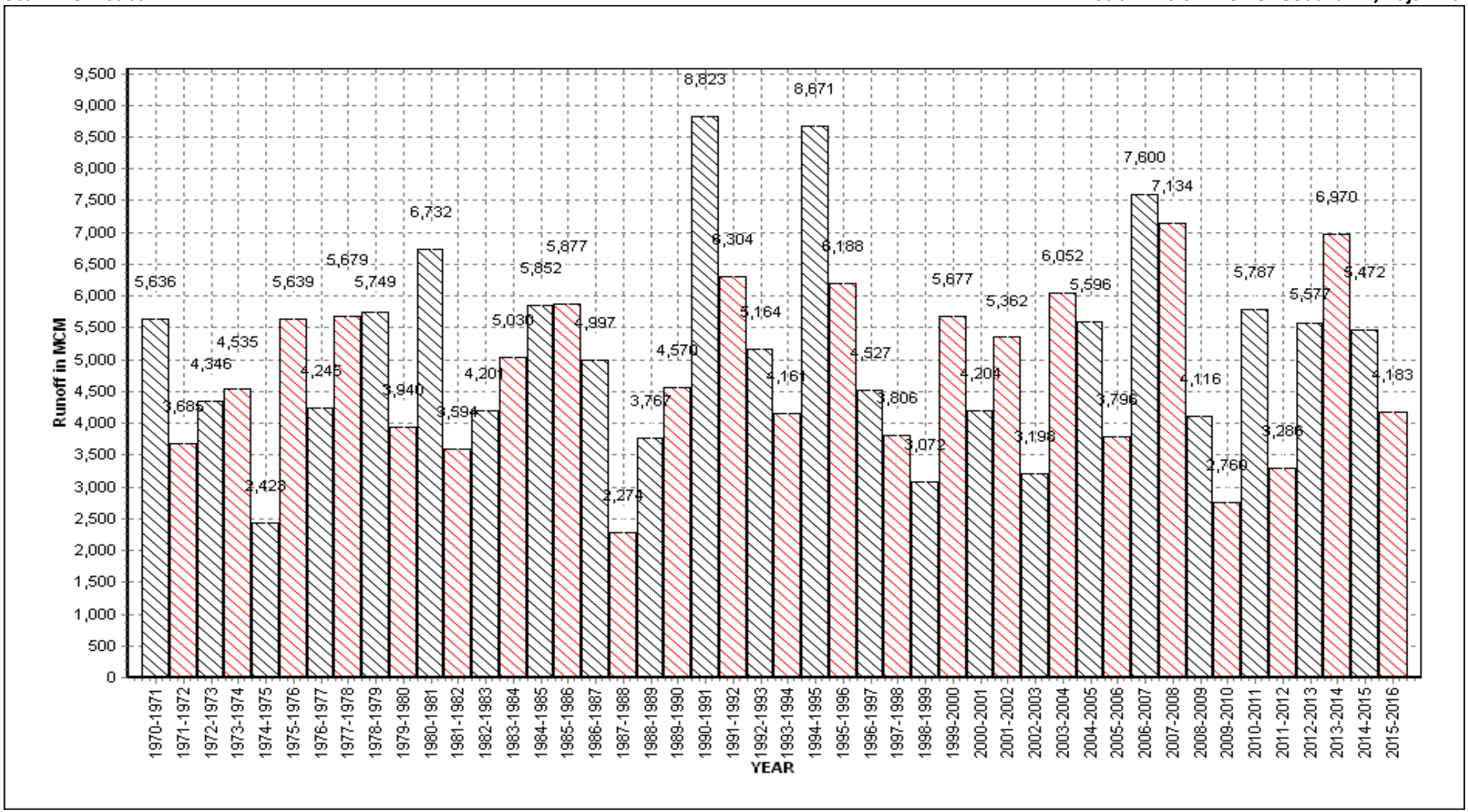
Local River : Sabari | **Sub-Division : Lower Godavari 2, Rajahmundry**



Annual Runoff Values for the period: 1970 - 2016

Station Name : Saradaput (AGC00N4) **Division : Lower Godavari Div., Hyderabad**

Local River : Sabari **Sub-Division : Lower Godavari 2, Rajahmundry**



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

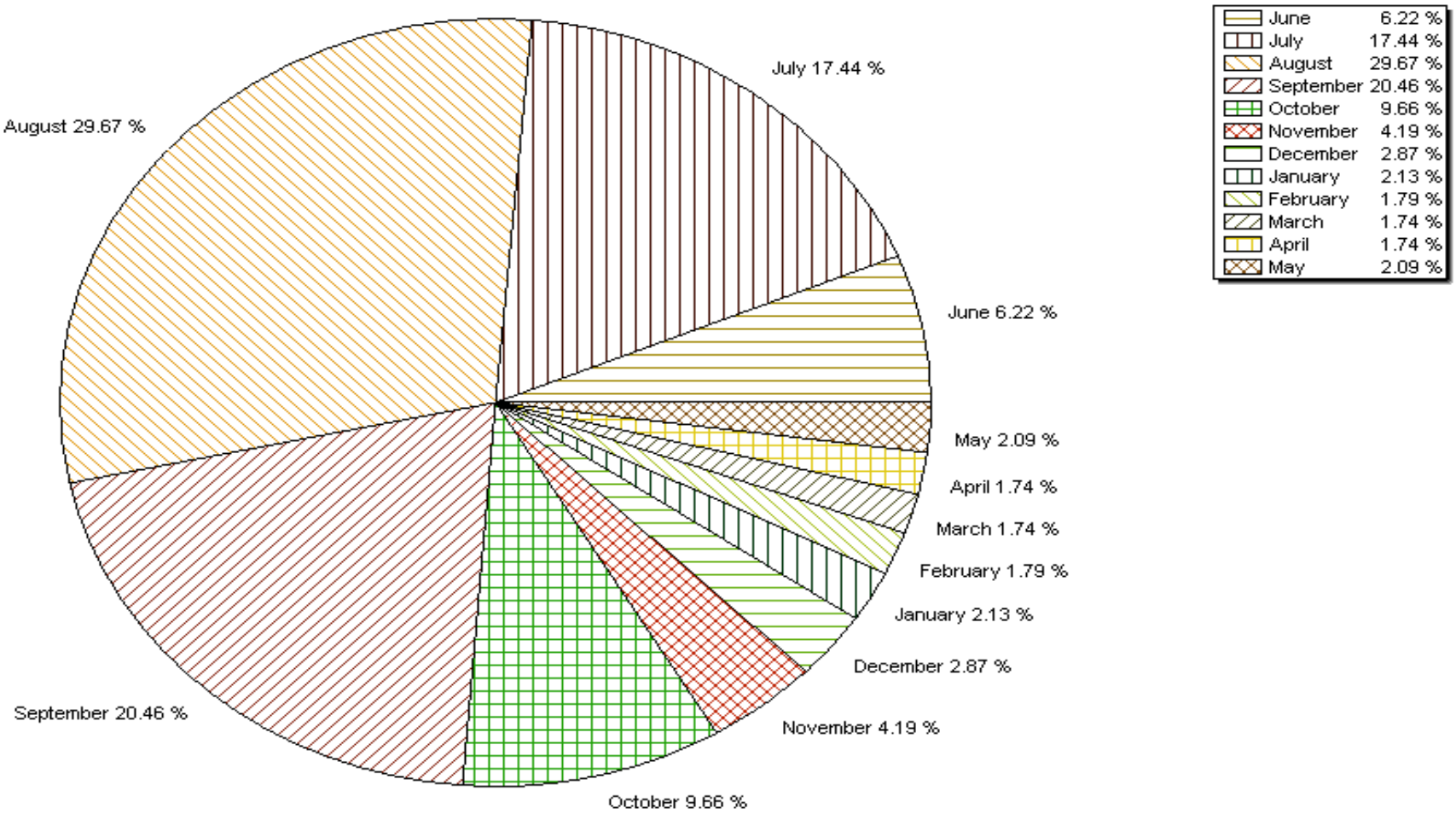
Monthly Average Runoff based on period : 1970-2015

Station Name : Saradaput (AGC00N4)

Local River : Sabari

Division : Lower Godavari Div., Hyderabad

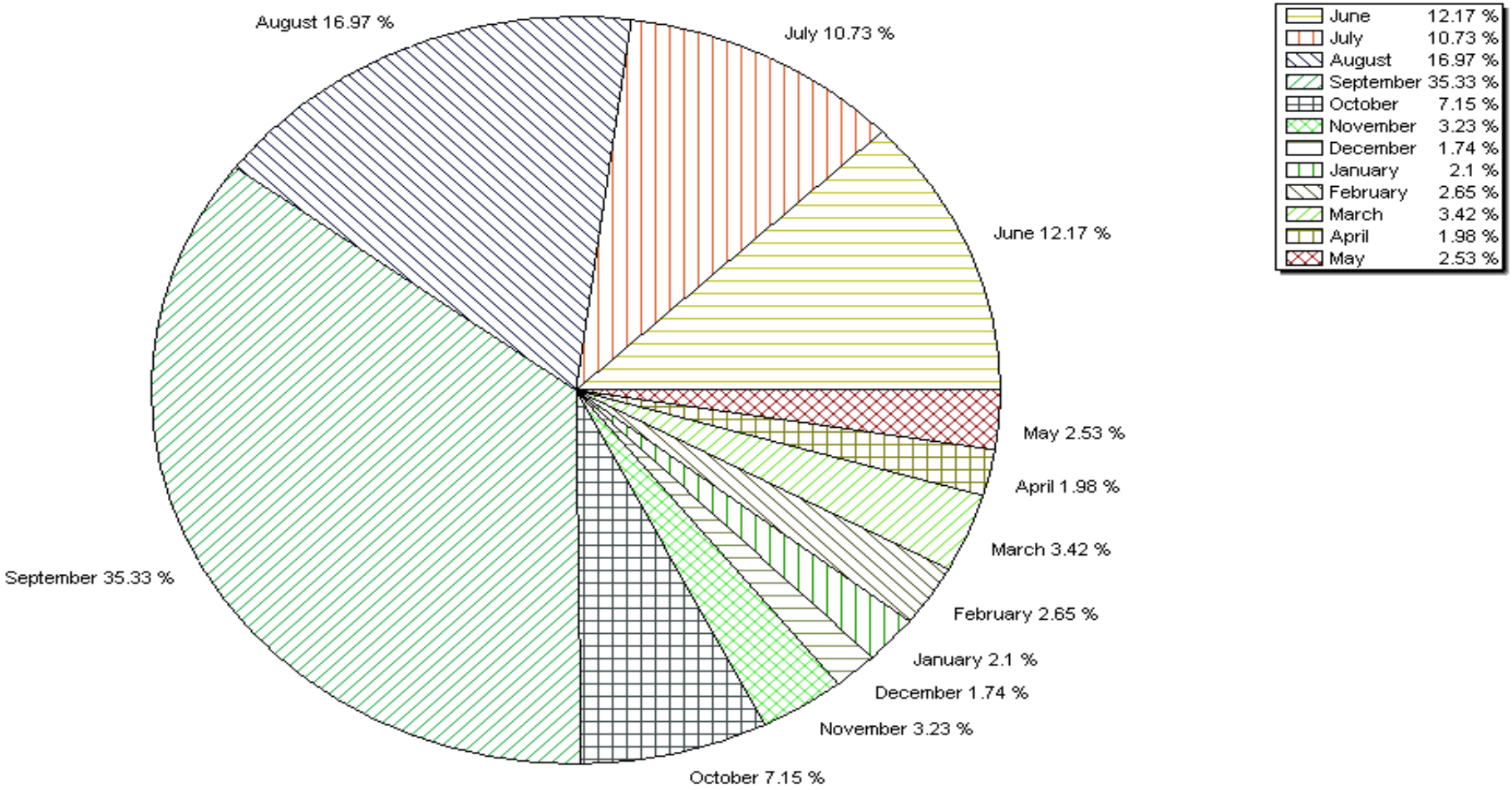
Sub-Division : Lower Godavari 2, Rajahmundry



Monthly Runoff for the Year : 2015-2016

Station Name : Saradaput (AGC00N4) **Division : Lower Godavari Div., Hyderabad**

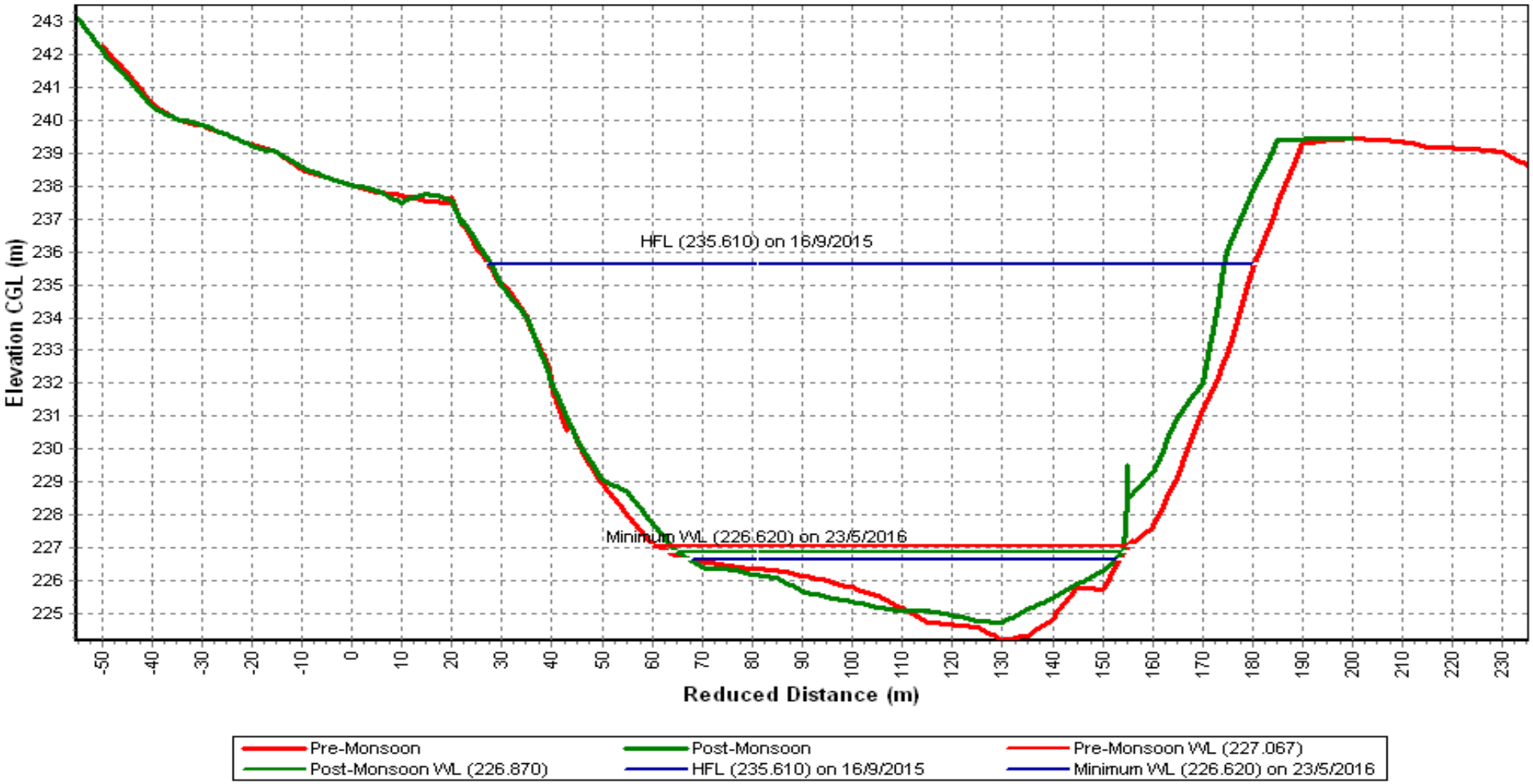
Local River : Sabari **Sub-Division : Lower Godavari 2, Rajahmundry**



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

Station Name : Saradaput (AGC00N4) **Division : Lower Godavari Div., Hyderabad**

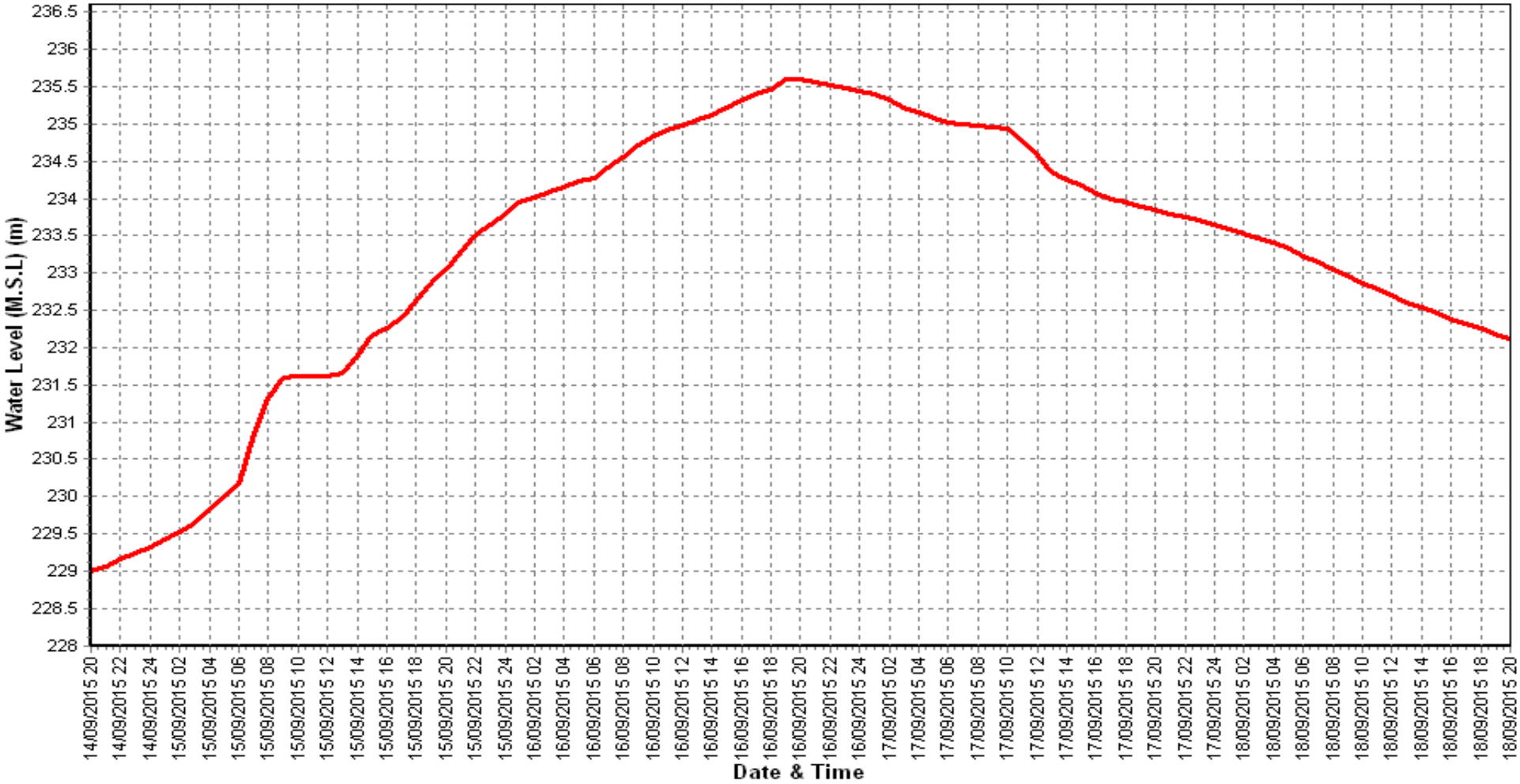
Local River : Sabari **Sub-Division : Lower Godavari 2, Rajahmundry**



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

Station Name : Saradaput (AGC00N4) **Division : Lower Godavari Div., Hyderabad**

Local River : Sabari **Sub-Division : Lower Godavari 2, Rajahmundry**

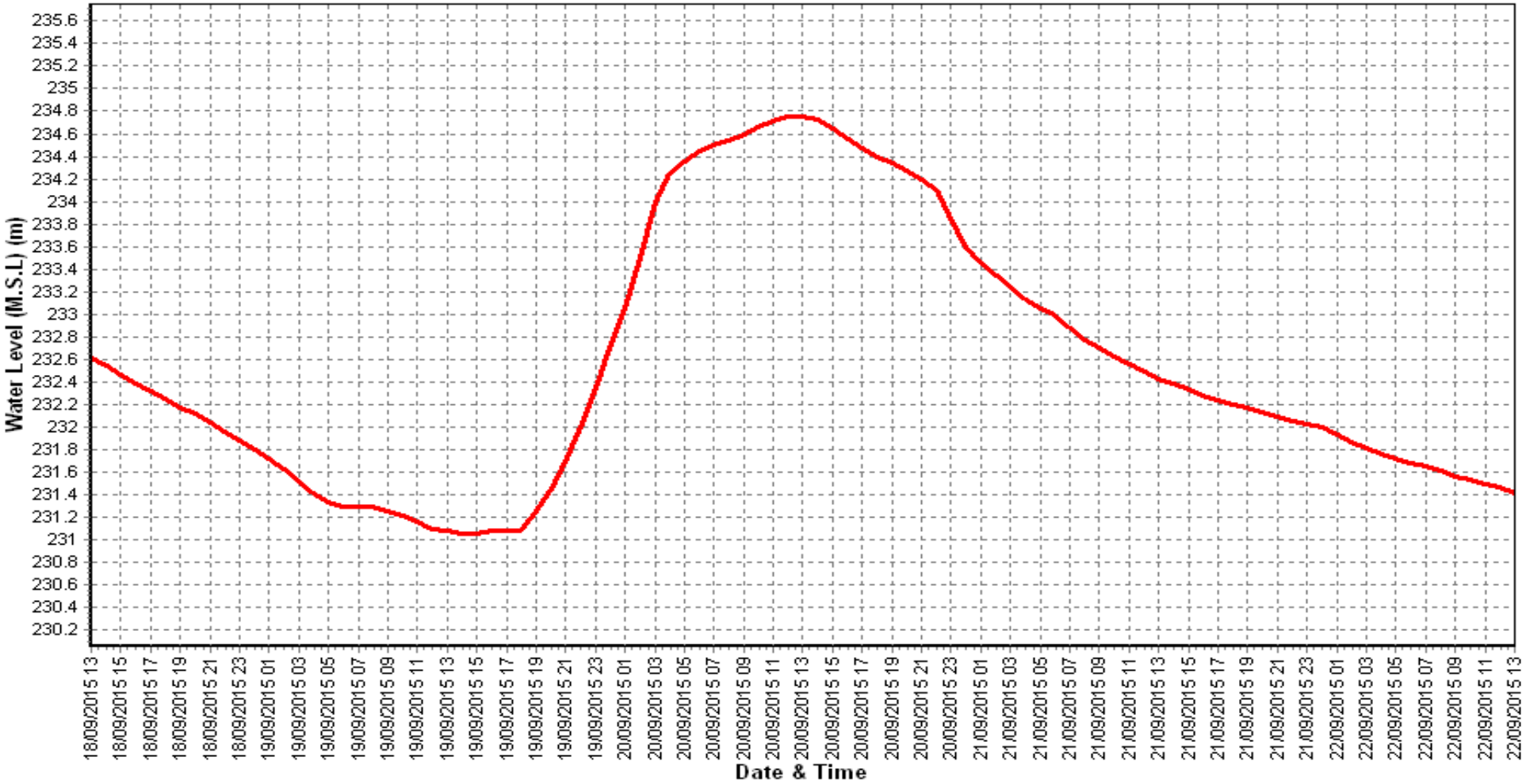


Time Span: 96 Hrs

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

Station Name : Saradaput (AGC00N4) **Division : Lower Godavari Div., Hyderabad**

Local River : Sabari **Sub-Division : Lower Godavari 2, Rajahmundry**

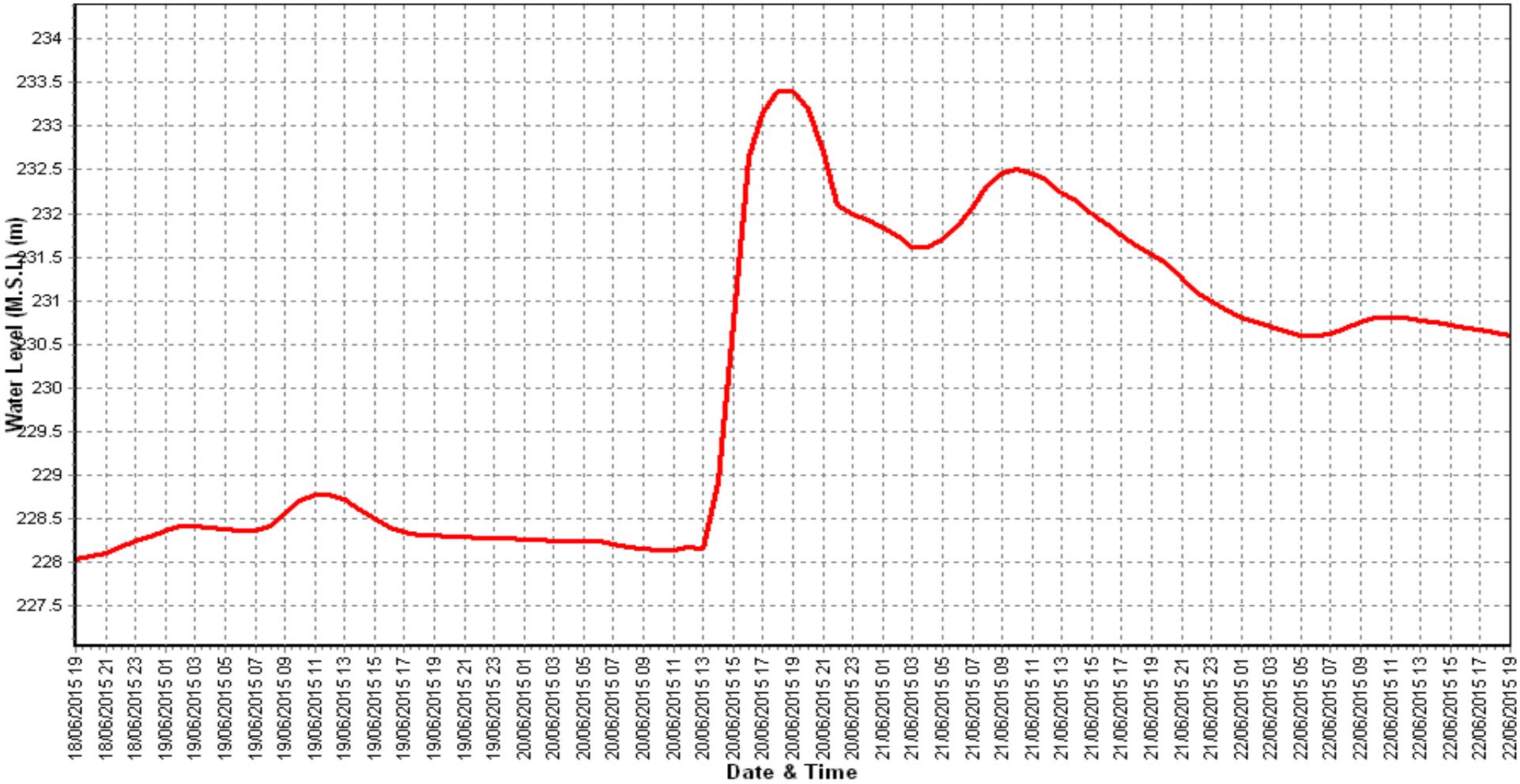


Time Span: 96 Hrs

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

Station Name : Saradaput (AGC00N4) **Division : Lower Godavari Div., Hyderabad**

Local River : Sabari **Sub-Division : Lower Godavari 2, Rajahmundry**



Time Span: 96 Hrs

HISTORY SHEET

Water Year : 2015-2016

Site	**: Sangam**		**Code**	**: SANGAM**	
State	: Andhra Pradesh		District	Khammam	
Basin	: Godavari		Independent River	: Godavari	
Tributary	: Kinnerasani		Sub Tributary	: Murredu	
Sub-Sub Tributary	: ---		Local River	: Murredu	
Division	: L Godavari Div., Hyderabad		Sub-Division	: L G SD No 1, Bhardrachalam	
Drainage Area	: 1565 Sq. Km.		Bank	: Left	
Latitude	: 17°35'50"		Longitude	: 80°49'40"	
Zero of Gauge (m)	: 53 (m.s.l) 51 (m.s.l)		01.06.1996 01.06.2010	- 31.05.2010	
	Opening Date		Closing Date		
Gauge	: 11.06.1996		**HFL During 2015-16**	**: 55.770**	
			Corres. Discharge	**: 316.522 Cumes(Estimated)**	
Discharge	: 24.08.1996		**Date & Time of**	**: 21.06.2015**	
			Occurance	**: 11:00 hrs.**	
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**
1996-1997	269.2	56.750	11.09.1996	0.000		31.03.1997
1997-1998	92.57	55.120	27.07.1997	0.000		20.01.1998
1998-1999	335.5	56.315	10.07.1998	0.000		14.03.1999
1999-2000	219.9	55.680	20.08.1999	0.000		08.03.2000
2000-2001	348.6	56.320	28.08.2000	0.000		05.03.2001
2001-2002	228.2	55.770	04.08.2001	0.000		24.03.2002
2002-2003	254.9	55.880	13.08.2002	0.000		16.02.2003
2003-2004	285.6	56.050	22.08.2003	0.000		08.04.2004
2004-2005	410.8	56.070	24.07.2004	0.000		27.02.2005
2005-2006	970.6	58.250	21.09.2005	0.000	52.520	24.05.2006
2006-2007	449.6	56.370	05.08.2006	0.000		19.05.2007
2007-2008	128.7	54.910	20.09.2007	0.000		11.03.2008
2008-2009	253.8	56.880	10.08.2008	0.000		01.03.2009
2009-2010	100.9	55.200	22.05.2010	0.000		08.11.2009
2010-2011	198.0	55.400	30.08.2010	0.000	53.020	13.04.2011
2011-2012	127.4	54.980	18.08.2011	0.000		21.03.2012
2012-2013	121.2	55.180	03.11.2012	0.000	52.760	20.04.2013
2013-2014	125.3	55.400	26.10.2013	0.000		03.04.2014
2014-2015	130.6	54.780	28.08.2014	0.000	51.000	25.02.2015

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

Stage-Discharge Data for the period 2015 - 2016

Station Name : Sangam (SANGAM) **Division : L Godavari Div., Hyderabad**

Local River : Murredu **Sub-Division : L G SD No 1, Bhardrachalam**

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	52.490	0.000	53.870	33.06 *	53.140	2.000	53.630	18.74 #	53.490	13.56	53.110	2.964 *
2	52.480	0.000	53.510	12.23	53.130	2.294 *	54.320	72.11 *	53.380	11.34 *	53.100	2.822
3	52.470	0.000	53.460	9.828	53.120	2.078	53.720	25.02	53.370	11.31	53.100	2.708
4	52.500	0.000	53.465	10.40	53.160	2.533	53.675	21.09 #	53.350	11.11 *	53.110	2.839
5	52.550	0.000	53.440	10.44 *	53.820	29.71 *	53.545	15.61	53.290	10.81	53.110	2.864
6	52.570	0.000	53.280	6.441	53.440	10.44 #	53.510	13.20 *	53.330	10.43	53.100	2.583
7	52.600	0.000	53.240	5.336	53.210	3.789 #	53.280	5.437 #	53.265	8.227	53.100	2.745
8	52.620	0.000	53.210	4.380	53.220	4.567	53.370	8.330	53.230	7.225	53.100	2.745 *
9	52.630	0.000	53.200	3.580 *	53.180	3.181 *	53.220	4.005 #	53.220	6.762	53.100	2.522
10	52.620	0.000	53.220	4.483	54.130	53.63 *	53.230	4.227 #	53.190	5.968	53.100	2.479
11	52.610	0.000	53.200	3.892	53.740	24.76 *	53.400	9.027 #	53.160	5.512 *	53.100	2.479 *
12	52.600	0.000	53.180	3.181 *	53.750	25.35 *	53.570	14.67	53.160	5.512	53.090	2.347
13	52.580	0.000	53.180	3.165	53.630	17.056	53.600	17.25 *	53.190	6.199	53.090	2.080
14	52.600	0.000	53.315	6.312	53.580	16.30 #	53.870	33.65	53.180	5.125	53.080	1.908
15	52.860	0.026 *	53.230	4.241	53.480	11.97 *	54.160	54.04	53.180	4.857	53.090	2.793 *
16	53.950	38.81 *	53.630	18.74 *	53.800	28.43 *	53.800	33.33	53.170	4.919	53.050	2.754
17	53.350	7.207	53.280	5.955	54.240	63.97 *	53.650	19.77 *	53.170	4.467	53.115	3.172
18	53.840	31.02 *	53.260	4.933 *	53.890	34.45 #	54.550	98.52 *	53.170	4.657 *	53.150	4.847
19	54.250	64.96 *	53.240	4.456 *	53.570	14.04	54.065	51.94	53.185	5.105	53.140	4.539
20	54.780	129.4 *	53.160	2.920	53.300	5.967 #	54.220	62.01 *	53.180	4.401	53.140	4.432
21	55.710	302.6 *	53.170	3.223	53.270	5.182 #	55.160	190.7 *	53.170	4.757	53.130	4.433
22	55.160	190.7 *	53.160	2.725	53.225	4.115 #	54.410	81.91 *	53.170	4.657 *	53.120	3.443 *
23	54.330	73.17 *	53.170	2.810	53.290	5.699 *	53.895	33.59	53.150	4.299	53.100	2.809
24	53.970	40.33 *	53.200	3.580 #	53.210	3.789 #	53.615	18.72	53.160	4.399 *	53.090	2.781
25	53.760	25.95 *	53.290	5.968	53.170	2.991 #	53.500	12.78 *	53.150	4.099 *	53.090	2.689 *
26	53.620	18.24 #	53.220	4.005 *	53.120	2.135 #	53.400	9.027 #	53.140	3.942	53.090	2.489
27	53.515	11.94	53.200	3.145	53.125	2.213 #	53.460	11.19 *	53.130	3.573	53.090	2.314
28	53.460	11.19 *	53.170	3.140	53.460	11.19 #	53.660	20.29 #	53.130	3.154	53.080	2.263 *
29	53.930	37.33 *	53.190	3.127	53.510	13.20 #	53.590	18.25	53.120	3.086	53.080	2.263 *
30	53.930	37.33 *	53.150	2.514	53.540	14.48 *	53.470	12.92	53.120	3.334	53.080	2.243
31			53.120	1.885	53.870	28.30			53.110	2.964		
Daily Mean												
Ten-Dai	52.553	0.000	53.390	10.02	53.370	12.18	53.550	18.78	53.312	9.675	53.103	2.727
Ten-Da	53.342	27.15	53.267	5.779	53.706	25.03	53.889	39.42	53.174	5.075	53.104	3.135
Ten-Da	54.139	74.88	53.185	3.284	53.345	8.482	53.816	40.94	53.141	3.842	53.095	2.773
Monthly												
Min.	52.470	0.000	53.120	1.885	53.120	2.000	53.220	4.005	53.110	2.964	53.050	1.908
Max.	55.710	302.6	53.870	33.06	54.240	63.97	55.160	190.7	53.490	13.56	53.150	4.847
Mean	53.345	34.01	53.278	6.261	53.464	14.76	53.751	33.05	53.207	6.121	53.101	2.878

Annual Runoff in MCM = 258 Annual Runoff in mm = 165

Peak Observed Discharge = 54.04 cumecs on 15/09/2015 Corres. Water Level :54.16 m

Lowest Observed Discharge = 0.000 cumecs on 01/06/2015 Corres. Water Level :52.49 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 : Sangam (SANGAM) **Division : L Godavari Div., Hyderabad**

Local River : Murredu **Sub-Division : L G SD No 1, Bhardrachalam**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	53.080	2.207	52.990	0.708	52.940	0.301	51.000	0.000	51.000	0.000	51.000	0.000
2	53.070	2.166	52.990	0.706	52.930	0.272	51.000	0.000	51.000	0.000	51.000	0.000
3	53.075	2.208	52.990	1.045 *	52.920	0.259	51.000	0.000	51.000	0.000	51.000	0.000
4	53.080	2.245	53.000	1.307	52.910	0.249	51.000	0.000	51.000	0.000	51.000	0.000
5	53.080	2.238	53.000	1.233	52.880	0.219	51.000	0.000	51.000	0.000	51.000	0.000
6	53.080	2.238 *	53.000	1.202	52.860	0.207	51.000	0.000	51.000	0.000	51.000	0.000
7	53.070	2.188	53.000	1.205	52.860	0.207 *	51.000	0.000	51.000	0.000	51.000	0.000
8	53.070	2.198	53.000	0.997	52.870	0.270	51.000	0.000	51.000	0.000	51.000	0.000
9	53.060	2.166	53.000	1.087	52.870	0.242	51.000	0.000	51.000	0.000	51.000	0.000
10	53.060	2.182	52.990	1.045 *	52.860	0.228	51.000	0.000	51.000	0.000	52.740	0.000
11	53.060	2.145	52.990	1.225	52.810	0.108	51.000	0.000	51.000	0.000	52.680	0.000
12	53.060	2.070	52.990	1.051	52.780	0.099	51.000	0.000	51.000	0.000	52.640	0.000
13	53.050	2.016 *	52.990	1.005	52.770	0.000	51.000	0.000	51.000	0.000	52.630	0.000
14	53.050	1.880	52.990	1.009	52.760	0.000	51.000	0.000	51.000	0.000	52.620	0.000
15	53.050	1.825	52.990	1.045 *	52.750	0.000	51.000	0.000	51.000	0.000	52.640	0.000
16	53.050	1.936	52.990	0.883	52.730	0.000	51.000	0.000	51.000	0.000	52.660	0.000
17	53.040	1.736	52.980	0.783 *	52.710	0.000	51.000	0.000	51.000	0.000	52.660	0.000
18	53.040	1.733	52.980	0.588	52.700	0.000	51.000	0.000	51.000	0.000	52.660	0.000
19	53.040	1.733	52.980	0.568	52.680	0.000	51.000	0.000	51.000	0.000	52.670	0.000
20	53.030	1.666 *	52.970	0.571	52.670	0.000	51.000	0.000	51.000	0.000	52.630	0.000
21	53.020	1.354	52.970	0.541	52.660	0.000	51.000	0.000	51.000	0.000	52.620	0.000
22	53.020	1.348	52.970	0.547	51.000	0.000	51.000	0.000	51.000	0.000	52.610	0.000
23	53.020	1.330	52.970	0.554	51.000	0.000	51.000	0.000	51.000	0.000	52.600	0.000
24	53.010	1.310 *	52.970	0.554 *	51.000	0.000	51.000	0.000	51.000	0.000	52.590	0.000
25	53.010	1.310 *	52.960	0.392	51.000	0.000	51.000	0.000	51.000	0.000	52.590	0.000
26	53.000	1.257	52.960	0.392 *	51.000	0.000	51.000	0.000	51.000	0.000	52.600	0.000
27	53.000	1.257 *	52.960	0.389	51.000	0.000	51.000	0.000	51.000	0.000	52.600	0.000
28	53.000	1.237	52.950	0.329	51.000	0.000	51.000	0.000	51.000	0.000	52.610	0.000
29	53.000	1.220	52.950	0.323	51.000	0.000	51.000	0.000	51.000	0.000	52.620	0.000
30	52.990	0.508	52.950	0.306			51.000	0.000	51.000	0.000	52.630	0.000
31	52.990	0.508	52.950	0.306 *			51.000	0.000			52.650	0.000
Daily M												
Ten-Dai	53.073	2.203	52.996	1.053	52.890	0.245	51.000	0.000	51.000	0.000	51.174	0.000
Ten-Da	53.047	1.874	52.985	0.873	52.736	0.021	51.000	0.000	51.000	0.000	52.649	0.000
Ten-Da	53.005	1.149	52.960	0.421	51.184	0.000	51.000	0.000	51.000	0.000	52.611	0.000
Monthly												
Min.	52.990	0.508	52.950	0.306	51.000	0.000	51.000	0.000	51.000	0.000	51.000	0.000
Max.	53.080	2.245	53.000	1.307	52.940	0.301	51.000	0.000	51.000	0.000	52.740	0.000
Mean	53.040	1.723	52.980	0.771	52.308	0.092	51.000	0	51.000	0	52.160	0

Peak Computed Discharge = 302.6 cumecs on 21/06/2015 Corres. Water Level :55.71 m

Lowest Computed Discharge = 0.026 cumecs on 15/06/2015 Corres. Water Level :52.86 m

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

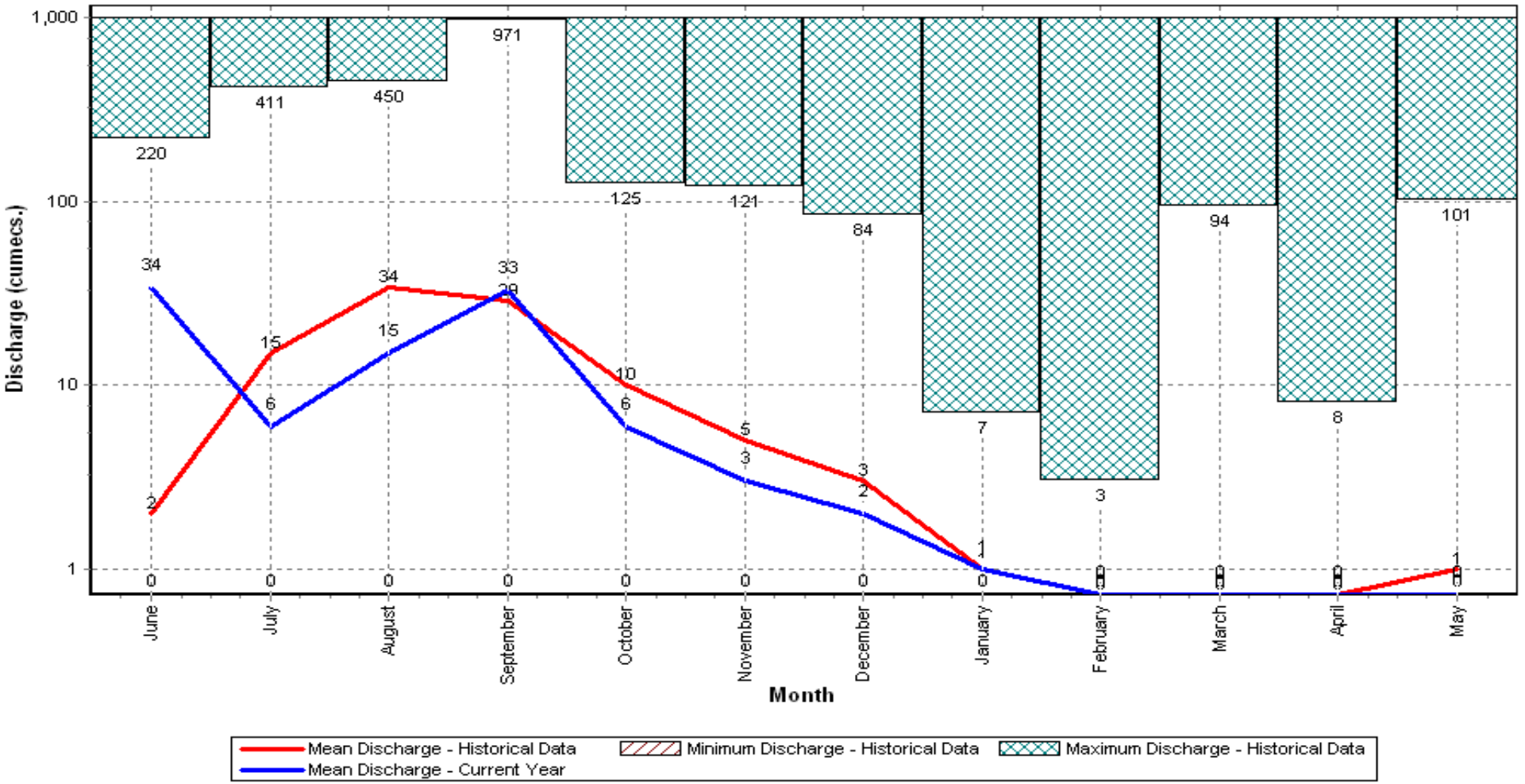
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016

Station Name : Sangam (SANGAM) | **Data considered : 1996-2016** | **Division : L Godavari Div., Hyderabad**

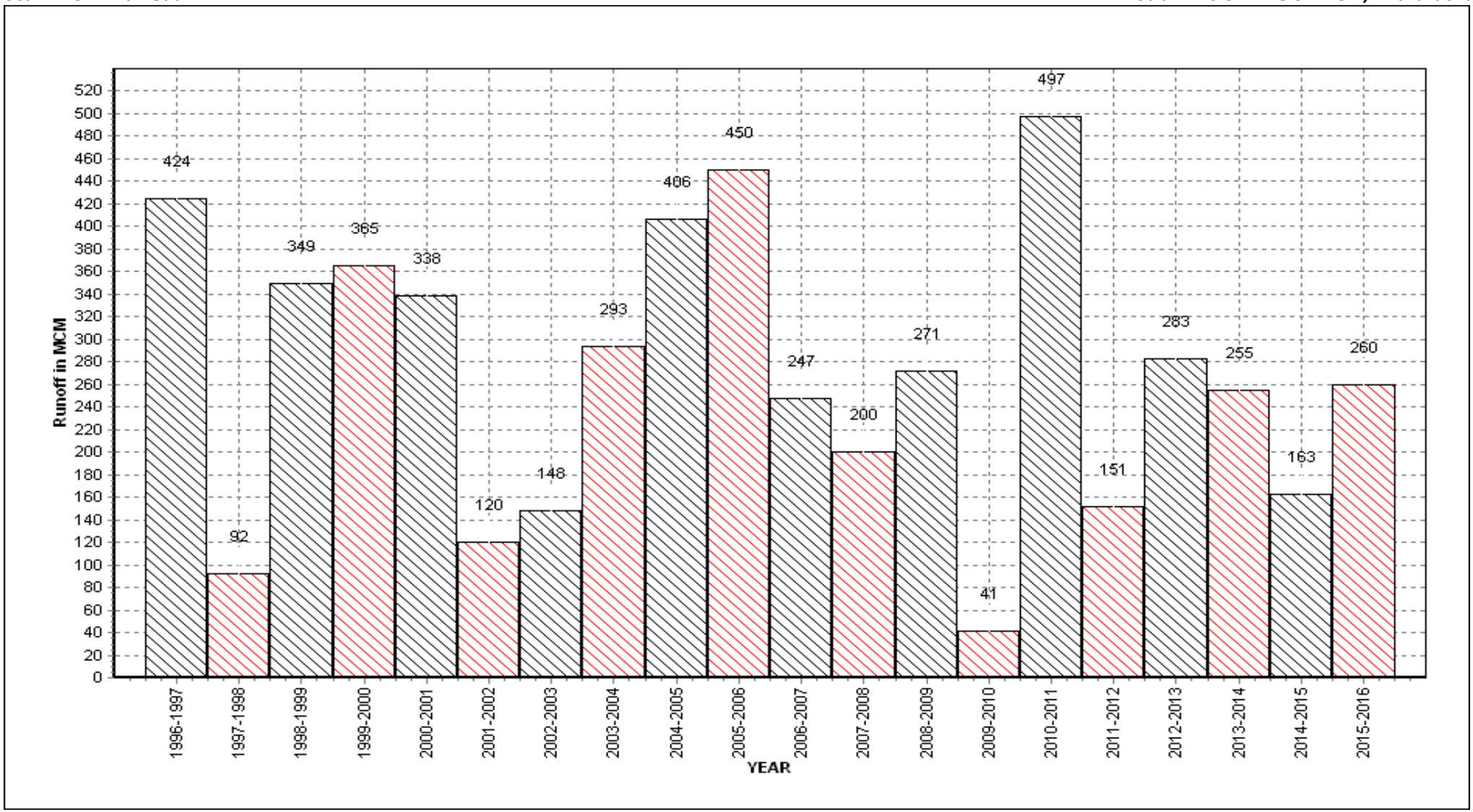
Local River : Murredu | **Sub-Division : L G SD No 1, Bhardrachalam**



Annual Runoff Values for the period: 1996 - 2016

Station Name : Sangam (SANGAM) **Division : L Godavari Div., Hyderabad**

Local River : Murredu **Sub-Division : L G SD No 1, Bhardrachalam**

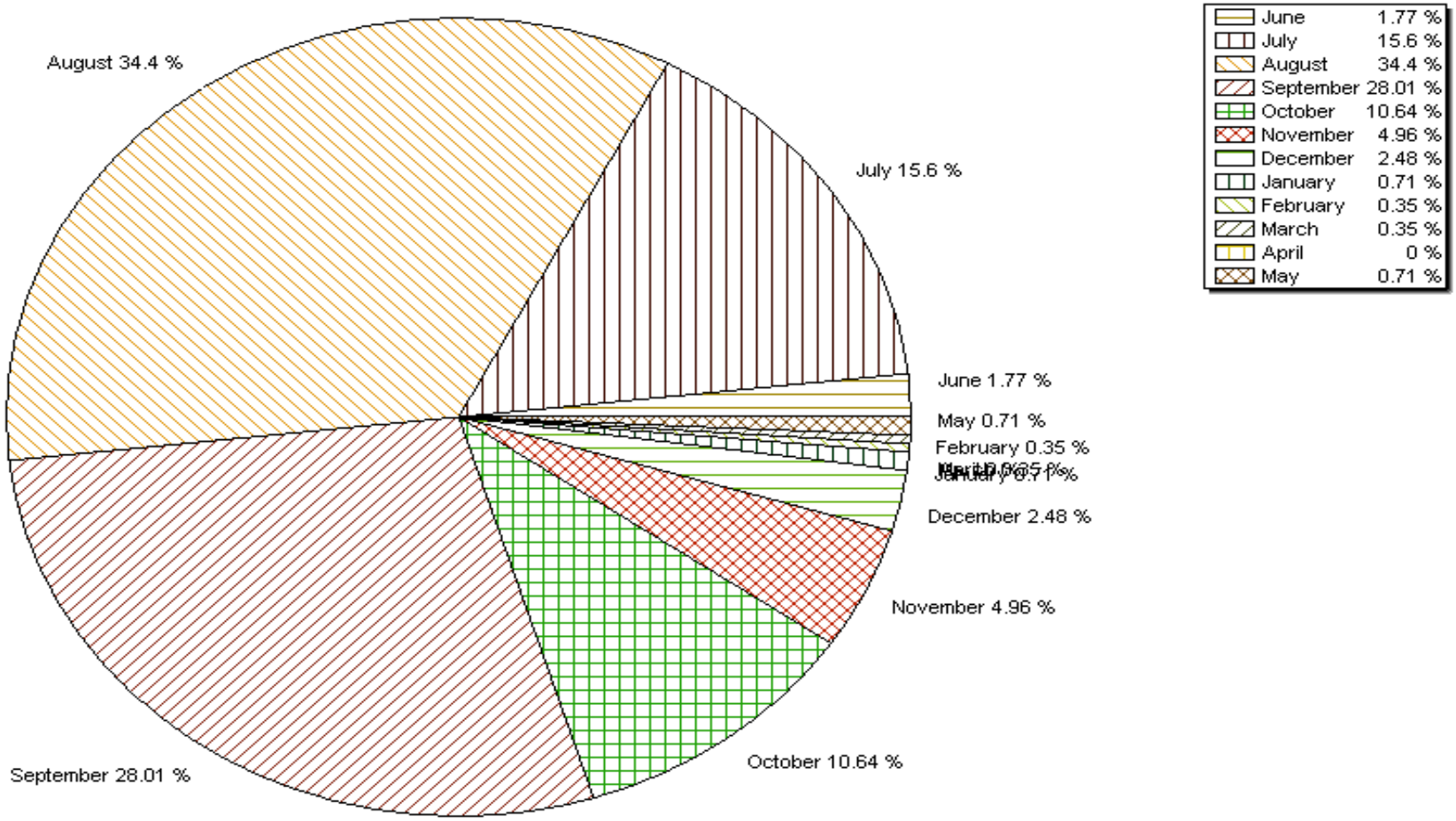


Note: Missing values have not been considered while arriving at Annual Runoff

Monthly Average Runoff based on period : 1996-2015

Station Name : Sangam (SANGAM) **Division : L Godavari Div., Hyderabad**

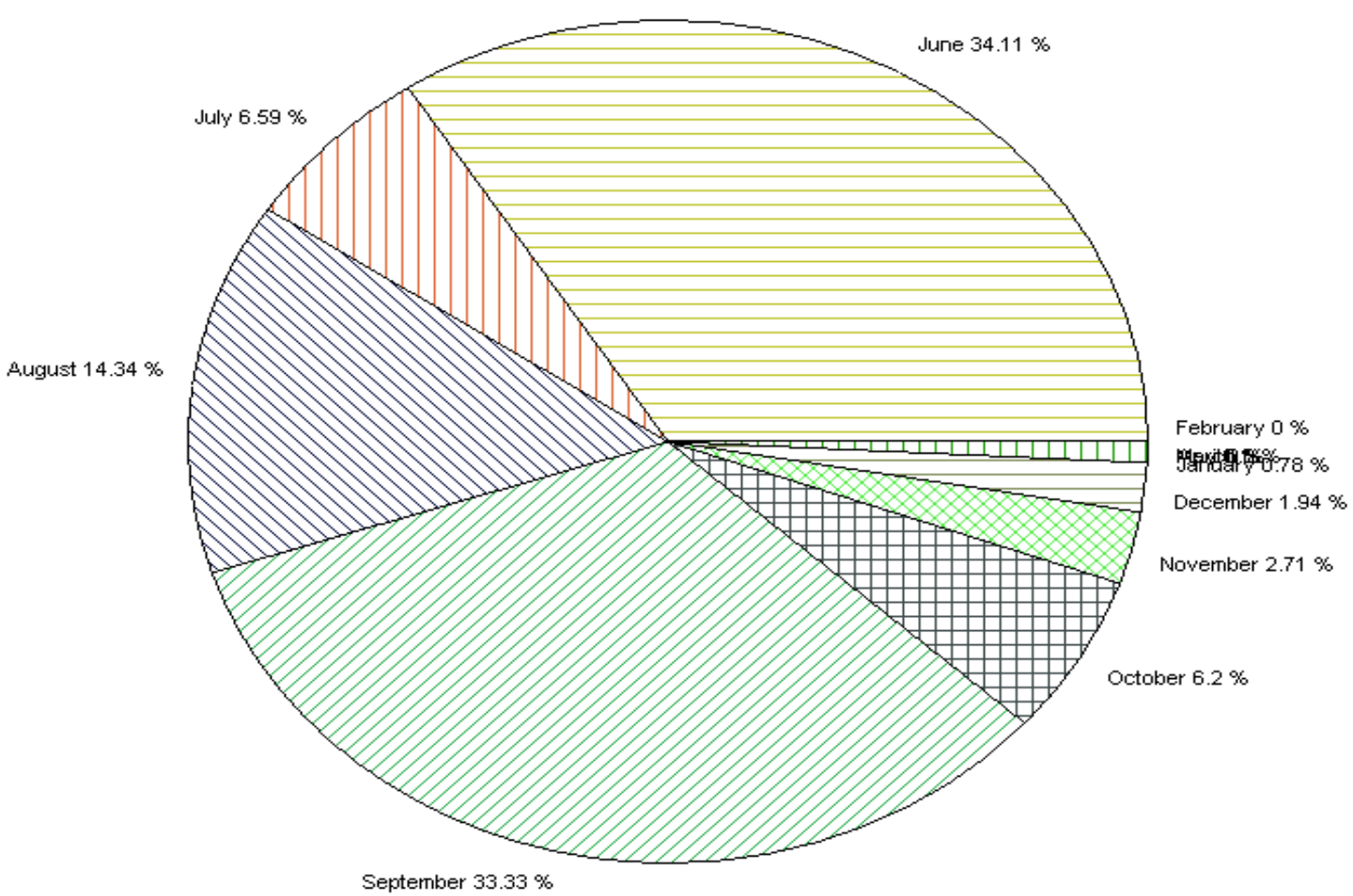
Local River : Murredu **Sub-Division : L G SD No 1, Bhardrachalam**



Monthly Runoff for the Year : 2015-2016

Station Name : Sangam (SANGAM)
Local River : Murredu

Division : L Godavari Div., Hyderabad
Sub-Division : L G SD No 1, Bhardrachalam



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

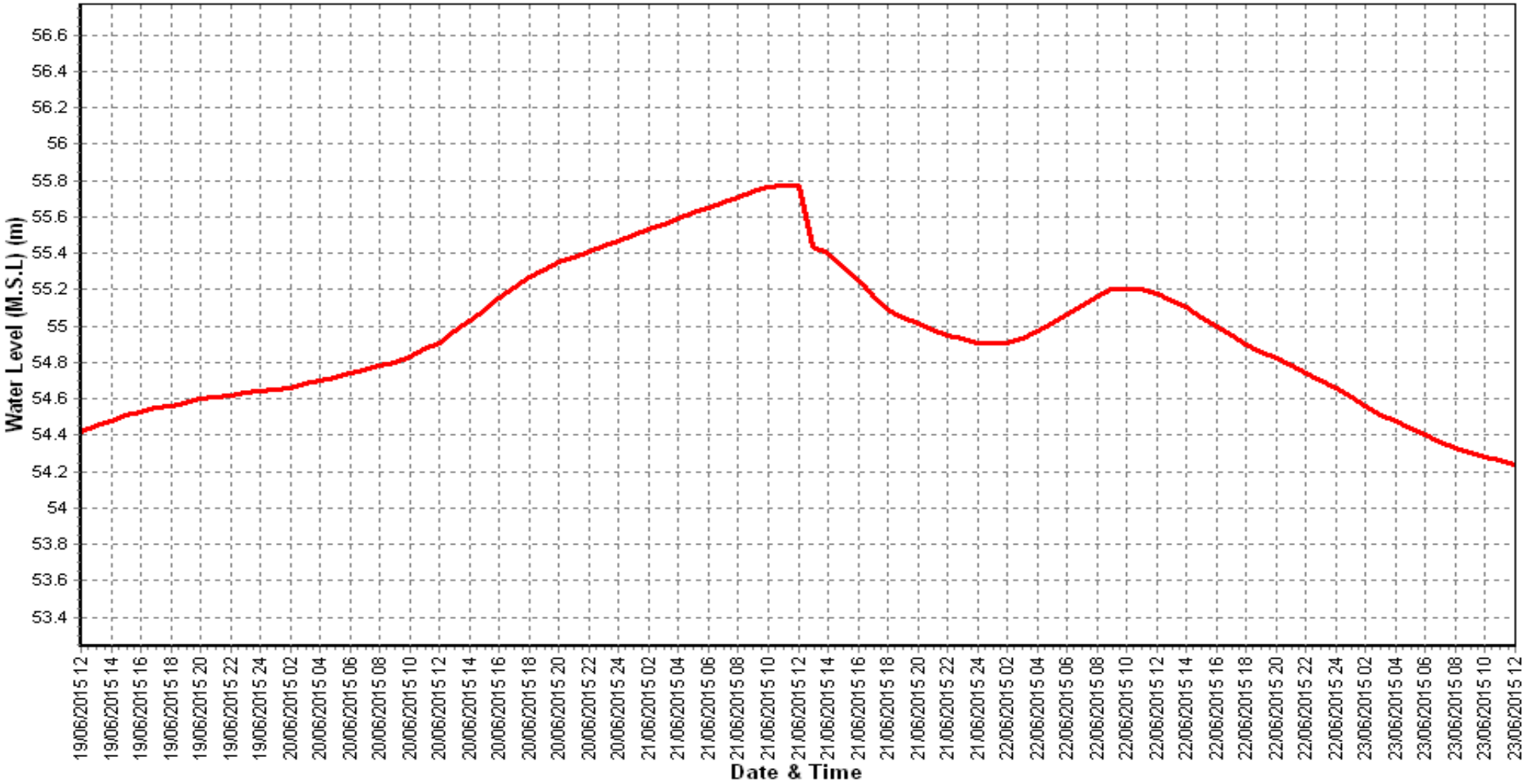
Station Name : Sangam (SANGAM) **Division : L Godavari Div., Hyderabad**

Local River : Murredu **Sub-Division : L G SD No 1, Bhardrachalam**

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

Station Name : Sangam (SANGAM) **Division : L Godavari Div., Hyderabad**

Local River : Murredu **Sub-Division : L G SD No 1, Bhardrachalam**

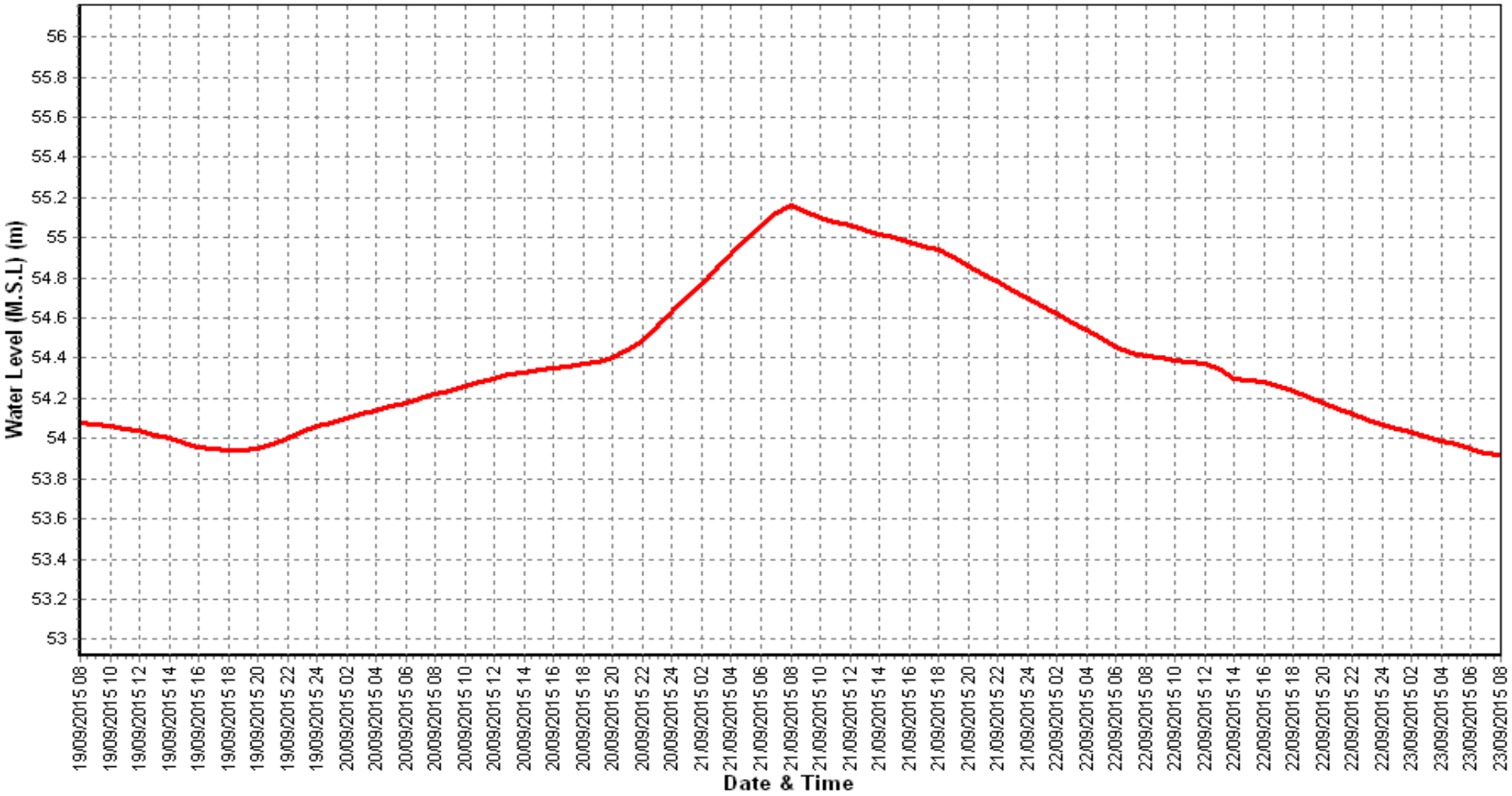


Time Span: 96 Hrs

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

Station Name : Sangam (SANGAM) **Division : L Godavari Div., Hyderabad**

L **ılam**

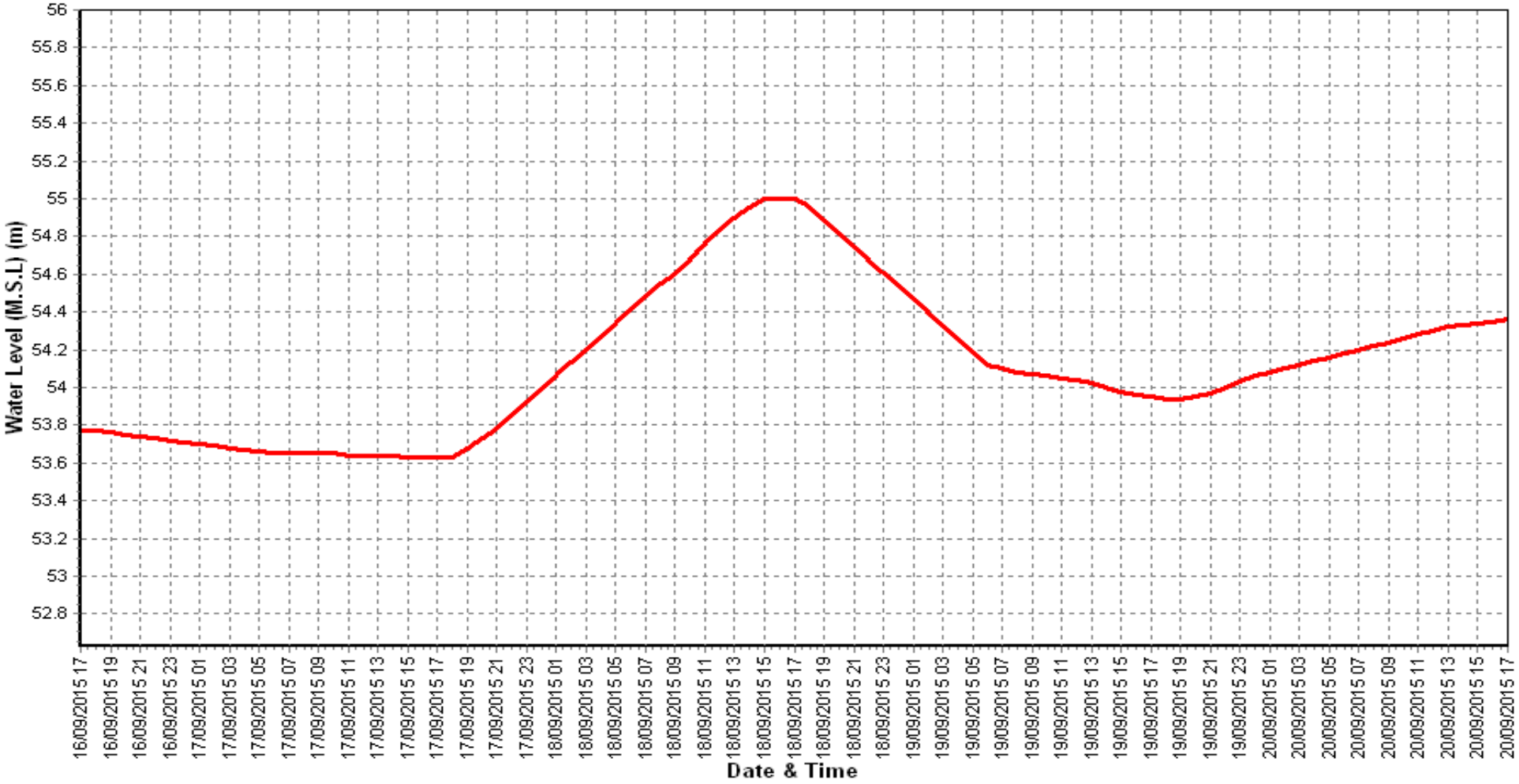


Time Span: 96 Hrs

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

Station Name : Sangam (SANGAM) **Division : L Godavari Div., Hyderabad**

Local River : Murredu **Sub-Division : L G SD No 1, Bhardrachalam**



Time Span: 96 Hrs

HISTORY SHEET

Water Year : 2015-2016

Site	**:**	**Perur**	**Code**	**:**	**AG000G7**
State	:	Andhra Pradesh	District		Khammam
Basin	:	Godavari	Independent River	:	Godavari
Tributary	:	-	Sub Tributary	:	-
Sub-Sub Tributary	:	-	Local River	:	Godavari
Division	:	Lower Godavari Div., Hyderabad	Sub-Division	:	Lower Godavari 1, Bhadrachalam
Drainage Area	:	268200 Sq. Km.	Bank	:	Left
Latitude	:	18°35'14"	Longitude	:	80°26'10"
Zero of Gauge (m)	:	83 (m.s.l) 68.475 (m.s.l) 68.15 (m.s.l)	11.03.1964 17.09.1965 11.07.1976	-	16.09.1965 10.07.1976
		Opening Date	Closing Date		
Gauge	:	11.03.1964	**HFL During 2015-16**	**:**	**80.100**
			Corres. Discharge	**:**	**22873.451 Cumes(Estimated)**
Discharge	:	17.09.1965	**Date & Time of**	**:**	**22.06.2015**
			Occurance	**:**	**06:00 hrs.**
Sediment	:	24.02.1968			
Water Quality	:	24.10.1968			

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

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1966-1967	44418	85.455	06.09.1966	14.20	68.490	13.06.1966
1967-1968	30194	82.465	04.08.1967	13.07	69.120	12.06.1967
1968-1969	20662	80.045	18.08.1968	26.33	69.160	14.06.1968
1969-1970	33577	82.680	21.09.1969	23.43	69.890	22.05.1970
1970-1971	46078	83.875	20.08.1970	24.14	70.080	01.06.1970
1971-1972	18005	79.310	02.09.1971	12.10	69.130	31.05.1972
1972-1973	22129	80.355	06.07.1972	10.88	69.085	10.06.1972
1973-1974	32738	81.990	26.08.1973	12.44	68.995	01.06.1973
1974-1975	15559	79.760	12.08.1974	21.60	69.065	28.05.1975
1975-1976	34115	82.675	12.09.1975	29.03	69.143	03.06.1975
1976-1977	39427	84.040	22.07.1976	32.26	69.530	16.06.1976
1977-1978	27766	81.765	24.08.1977	45.74	69.678	04.06.1977
1978-1979	38329	83.230	01.09.1978	35.10	70.235	11.05.1979
1979-1980	36269	82.760	05.08.1979	38.90	70.185	20.06.1979
1980-1981	26480	82.015	03.08.1980	47.05	69.930	31.05.1981
1981-1982	51496	84.025	11.08.1981	30.60	70.520	12.05.1982
1982-1983	11750	77.750	18.08.1982	13.50	69.970	11.05.1983
1983-1984	43879	85.080	13.08.1983	12.60	69.960	17.06.1983
1984-1985	14784	79.510	22.08.1984	24.80	70.130	25.05.1985
1985-1986	12986	78.120	13.08.1985	24.57	69.560	31.05.1986

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**
1986-1987	62889	87.420	15.08.1986	18.30	70.460	27.05.1987
1987-1988	11809	78.515	10.07.1987	21.12	70.500	07.06.1987
1988-1989	39623	83.450	01.08.1988	24.40	70.050	31.05.1989
1989-1990	31414	82.750	25.07.1989	23.11	70.025	03.06.1989
1990-1991	62800	87.020	24.08.1990	27.15	70.745	23.05.1991
1991-1992	24830	81.655	18.08.1991	17.41	70.130	31.05.1992
1992-1993	35140	82.920	16.08.1992	11.94	70.170	30.05.1993
1993-1994	17642	80.070	05.08.1993	8.743	69.260	22.05.1994
1994-1995	41042	83.980	13.07.1994	9.615	69.260	03.06.1994
1995-1996	40205	83.750	21.10.1995	40.57	70.870	27.05.1996
1996-1997	8996	77.170	25.08.1996	32.97	70.300	31.05.1997
1997-1998	12350	78.270	23.08.1997	14.97	70.225	15.06.1997
1998-1999	18132	79.380	17.09.1998	40.79	69.850	14.05.1999
1999-2000	19223	80.280	12.08.1999	27.66	69.965	08.05.2000
2000-2001	40942	83.340	21.07.2000	12.90	70.690	31.05.2001
2001-2002	36288	82.730	22.08.2001	11.65	70.480	31.05.2002
2002-2003	24840	81.540	26.08.2002	11.07	70.420	31.05.2003
2003-2004	20116	80.160	27.07.2003	5.129	70.390	07.06.2003
2004-2005	16746	79.120	23.08.2004	18.67	69.840	31.05.2005
2005-2006	24436	81.130	18.09.2005	2.837	69.720	19.06.2005
2006-2007	51917	85.600	06.08.2006	26.65	70.600	31.05.2007
2007-2008	37378	82.810	09.08.2007	0.000	69.920	20.05.2008
2008-2009	25946	81.970	06.08.2008	4.467	69.760	19.05.2009
2009-2010	12393	77.750	28.08.2009	4.420	69.750	08.06.2009
2010-2011	44201	83.670	07.08.2010	12.42	69.630	07.06.2010
2011-2012	26113	80.930	02.09.2011	4.728	69.460	31.05.2012
2012-2013	27119	81.480	22.08.2012	2.557	69.410	14.06.2012
2013-2014	57245	85.080	02.08.2013	7.256	69.190	01.06.2013
2014-2015	44940	83.650	08.09.2014	28.23	69.350	30.05.2015

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

Stage-Discharge Data for the period 2015 - 2016

Station Name : Perur (AG000G7) **Division : Lower Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Lower Godavari 1, Bhadrachalam**

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	69.400	41.20	72.205	1430	71.950	1384	75.400	6764	72.280	1566	70.270	38.95 *
2	69.605	85.35	72.015	1305	71.570	944.7 *	75.480	6984	72.020	143.8 *	70.175	317.8
3	69.765	121.8	71.820	1113	71.180	681.7 #	75.240	6555	71.785	1265	70.195	312.6
4	69.725	120.9	71.705	1119	70.965	557.7 #	74.810	5479	71.680	121.5 *	70.295	383.4
5	69.650	98.98	71.640	997.3 *	70.810	477.1 #	74.275	4357	71.595	1152	70.300	385.5
6	69.585	81.37	71.510	975.6	70.760	452.6 #	73.840	3565 *	71.430	1136	70.285	351.3
7	69.530	68.16 *	71.290	736.4	70.690	419.7 #	73.645	3234	71.295	1098	70.270	328.0
8	69.510	61.10	71.145	614.8	76.000	8047 *	73.100	2684	71.350	1008	70.250	37.92 *
9	69.520	66.91	71.005	548.1	75.250	6251 *	72.780	2079	71.230	925.5	70.170	328.9
10	69.480	60.44 *	70.905	540.1	74.370	4473 *	72.620	2011	71.055	825.4	70.120	325.4
11	69.460	53.41	70.805	527.8	73.830	3549 *	72.365	1574	70.930	75.40 *	70.090	29.91 *
12	69.460	53.12	70.690	419.7 *	74.140	4064 *	72.290	1729	70.815	728.1	70.070	275.2
13	69.440	50.90	70.565	364.4	75.105	5889	72.430	1709 *	70.740	713.2	70.050	278.6
14	69.430	53.25 *	70.855	518.0	76.770	10170 *	72.395	1776	70.750	685.1	70.060	268.8
15	69.520	65.99	70.800	460.7	78.350	15460 *	72.500	1839	70.710	634.7	70.070	28.94 *
16	69.620	91.29	70.770	450.2	79.110	18473 *	72.570	1993	70.665	612.5	70.050	242.4
17	69.840	128.6 *	70.970	534.1	77.370	12028 *	72.860	2192 *	70.570	527.9	70.015	260.1
18	70.390	294.5 *	71.000	576.9 *	75.965	8681	78.170	14792 *	70.510	51.66 *	69.975	258.0
19	70.950	549.5 *	71.160	669.6 *	75.190	6462	79.370	19576 *	70.560	583.4	69.920	231.3
20	73.150	2558 *	71.415	788.1	74.850	5454	79.190	18808 *	70.550	530.1	69.900	226.4
21	77.050	11014 *	71.415	828.3	74.475	4276	77.720	13072	70.510	497.1	69.880	205.4
22	80.080	22779 *	72.000	1278	74.325	4063	77.315	11872	70.490	50.57 *	69.870	19.57 *
23	79.350	19490 *	72.440	1549	74.090	3978 *	76.225	8128	70.500	494.6	69.870	195.7
24	77.350	11963 *	73.315	2900	73.793	3291	75.475	6565	70.430	47.35 *	69.850	194.7
25	75.565	7328	74.090	3894	73.440	2958 *	74.540	4789 *	70.340	42.58 *	69.830	17.78 *
26	75.065	5162	73.890	3645 *	73.040	2416 *	74.280	4089	70.290	434.0	69.770	15.17 *
27	73.970	3570	74.165	4488	72.805	2047	73.660	3283 *	70.270	413.7	69.750	14.32 *
28	73.350	2830 *	74.210	4642	72.570	1813	73.230	3010	70.240	382.8	69.720	13.06 *
29	73.040	2217	73.935	4016	73.605	2922	72.830	2149	70.240	361.9	69.690	11.82 *
30	72.480	1461	73.055	2249	75.610	7080 *	72.490	1757	70.230	361.5	69.670	125.3
31			72.470	1731	75.340	6104			70.275	398.1		
Daily Mean												
Ten-Dai	69.577	80.62	71.524	937.8	72.354	2369	74.119	4371	71.572	924.1	70.233	281.0
Ten-Dai	70.126	389.9	70.903	530.9	76.068	9023	74.414	6599	70.680	514.2	70.020	210.0
Ten-Da	75.730	8781	73.180	2838	73.918	3722	74.777	5871	70.347	316.7	69.790	81.28
Monthly												
Min.	69.400	41.20	70.565	364.4	70.690	419.7	72.290	1574	70.230	42.58	69.670	11.82
Max.	80.080	22779	74.210	4642	79.110	18473	79.370	19576	72.280	1566	70.300	385.5
Mean	71.811	3084	71.911	1481	74.107	4996	74.437	5614	70.850	576.4	70.014	190.7

Annual Runoff in MCM = 42584 Annual Runoff in mm = 159

Peak Observed Discharge = 13072 cumecs on 21/09/2015 Corres. Water Level :77.72 m

Lowest Observed Discharge = 1.627 cumecs on 03/05/2016 Corres. Water Level :68.92 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

Stage-Discharge Data for the period 2015 - 2016

Station Name : Perur (AG000G7) **Division : Lower Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Lower Godavari 1, Bhadrachalam**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	69.650	121.2	69.460	82.19	69.330	54.83	69.270	42.98	69.100	21.04	68.950	5.029 *
2	69.640	142.8	69.460	80.60	69.330	53.73	69.290	49.09	69.090	20.53	68.930	3.997
3	69.630	124.0	69.450	79.46 *	69.330	53.40	69.280	44.47	69.090	17.71 *	68.920	1.627
4	69.630	126.0	69.440	76.94	69.330	53.19	69.260	43.20	69.080	18.67	68.920	2.873
5	69.640	136.8	69.430	72.60	69.340	56.04	69.250	39.90	69.070	17.15	68.940	3.314
6	69.640	127.4 *	69.420	68.02	69.350	56.40	69.250	40.24 *	69.060	16.43	68.930	3.743
7	69.640	126.6	69.410	67.93	69.350	58.36 *	69.250	39.50	69.050	14.93	68.940	3.888
8	69.630	121.0	69.400	64.28	69.360	57.34	69.240	37.29	69.040	12.39 *	68.930	3.801 *
9	69.615	106.5	69.390	61.74	69.360	57.10	69.240	36.93	69.030	11.43 *	68.920	3.556
10	69.600	114.3	69.370	62.35 *	69.360	56.04	69.230	36.57	69.030	11.43 *	68.930	3.829
11	69.580	110.2	69.360	53.83	69.340	53.11	69.220	34.87	69.030	11.84	68.930	4.422
12	69.560	107.3	69.340	51.67	69.320	50.32	69.210	32.69	69.030	11.47	68.920	3.664
13	69.540	100.9 *	69.340	53.11	69.300	46.72	69.190	30.83 *	69.020	10.87	68.920	3.586
14	69.510	93.08	69.330	50.69	69.280	45.36 *	69.170	29.96	69.020	10.50 *	68.910	2.730 *
15	69.500	89.57	69.330	54.50 *	69.270	42.82	69.160	26.25	69.010	10.91	68.920	3.246 *
16	69.490	89.32	69.320	47.19	69.250	39.84	69.150	25.82	69.010	10.76	68.920	3.360
17	69.470	83.61	69.310	50.75 *	69.240	38.17	69.140	25.12	69.000	8.757 *	68.920	3.278
18	69.460	80.57	69.300	46.79	69.220	34.14	69.130	24.26	69.000	9.717	68.920	3.078
19	69.460	81.22	69.300	46.57	69.210	33.75	69.130	24.49	68.990	9.517	68.920	3.617
20	69.450	79.46 *	69.305	47.00	69.200	31.23	69.140	23.86 *	68.990	7.938 *	68.920	3.176
21	69.470	83.11	69.320	49.12	69.170	27.95 *	69.140	26.12	68.990	9.274	68.920	3.246 *
22	69.480	86.84	69.310	49.90	69.160	26.44	69.140	26.31	68.980	7.808	68.920	3.246 *
23	69.490	87.26	69.320	50.00	69.160	28.23	69.130	25.44	68.980	8.325	68.920	2.974
24	69.490	88.71 *	69.320	52.61 *	69.175	30.76	69.120	23.85	68.970	6.409 *	68.920	2.805
25	69.490	88.71 *	69.320	50.64	69.160	27.95	69.110	20.07 *	68.970	6.181	68.920	3.249
26	69.490	91.65	69.320	52.61 *	69.160	27.51	69.110	23.54	68.970	6.205	68.940	4.152
27	69.490	88.71 *	69.330	53.75	69.190	33.29	69.110	20.07 *	68.960	5.335	68.960	5.031
28	69.480	86.55	69.340	55.71	69.260	41.91 *	69.110	22.17	68.950	4.825	68.960	5.752
29	69.480	87.10	69.340	56.29	69.270	45.73	69.110	22.09	68.950	4.985	68.970	6.409 *
30	69.470	85.47	69.340	56.50			69.110	21.46	68.950	4.879	68.990	7.300
31	69.470	83.92	69.340	56.42 *			69.100	21.90			69.000	8.369
-Daily M												
Ten-Dai	69.632	124.7	69.423	71.61	69.344	55.65	69.256	41.02	69.064	16.17	68.931	3.566
Ten-Da	69.502	91.52	69.324	50.21	69.263	41.55	69.164	27.82	69.010	10.23	68.920	3.416
Ten-Da	69.482	87.09	69.327	53.05	69.189	32.20	69.117	23.00	68.967	6.423	68.947	4.776
Monthly												
Min.	69.450	79.46	69.300	46.57	69.160	26.44	69.100	20.07	68.950	4.825	68.910	1.627
Max.	69.650	142.8	69.460	82.19	69.360	58.36	69.290	49.09	69.100	21.04	69.000	8.369
Mean	69.537	100.6	69.357	58.12	69.268	43.51	69.177	30.37	69.014	10.94	68.933	3.947

Peak Computed Discharge = 22779 cumecs on 22/06/2015 Corres. Water Level :80.08 m

Lowest Computed Discharge = 2.730 cumecs on 14/05/2016 Corres. Water Level :68.91 m

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

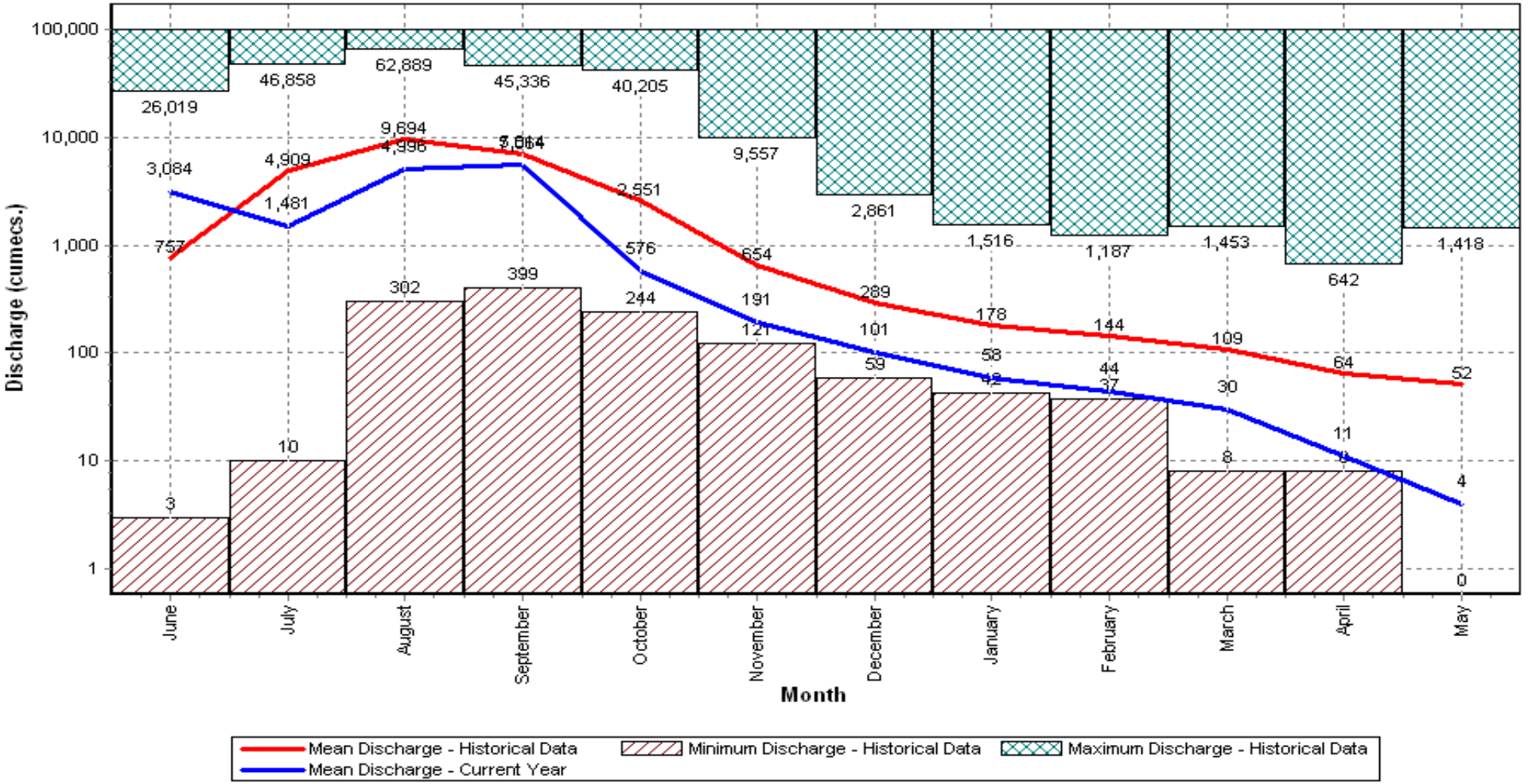
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016

Station Name : Perur (AG000G7) | **Data considered : 1966-2016** | **Division : Lower Godavari Div., Hyderabad**

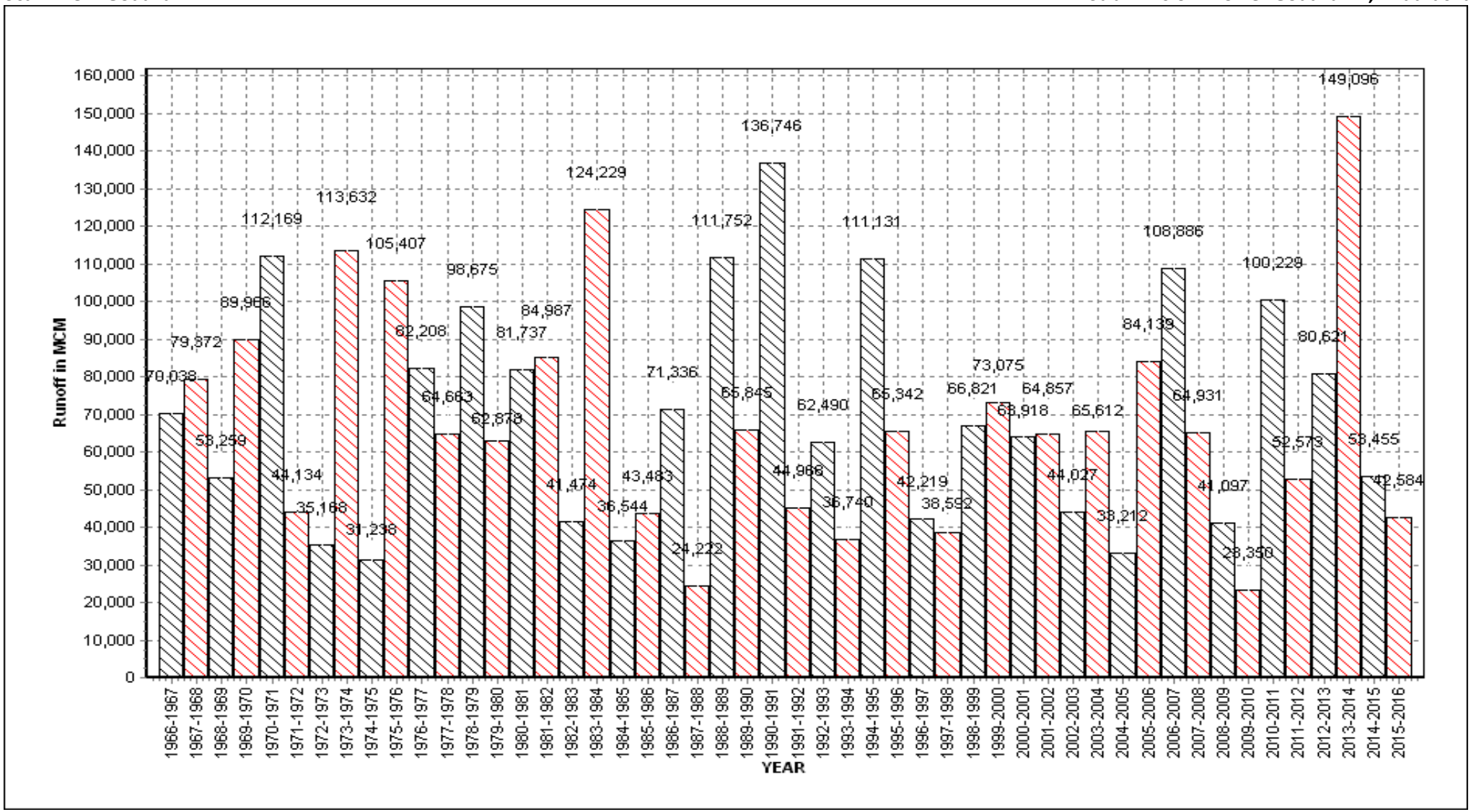
Local River : Godavari | **Sub-Division : Lower Godavari 1, Bhadrachalam**



Annual Runoff Values for the period: 1966 - 2016

Station Name : Perur (AG000G7) **Division : Lower Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Lower Godavari 1, Bhadrachalam**



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

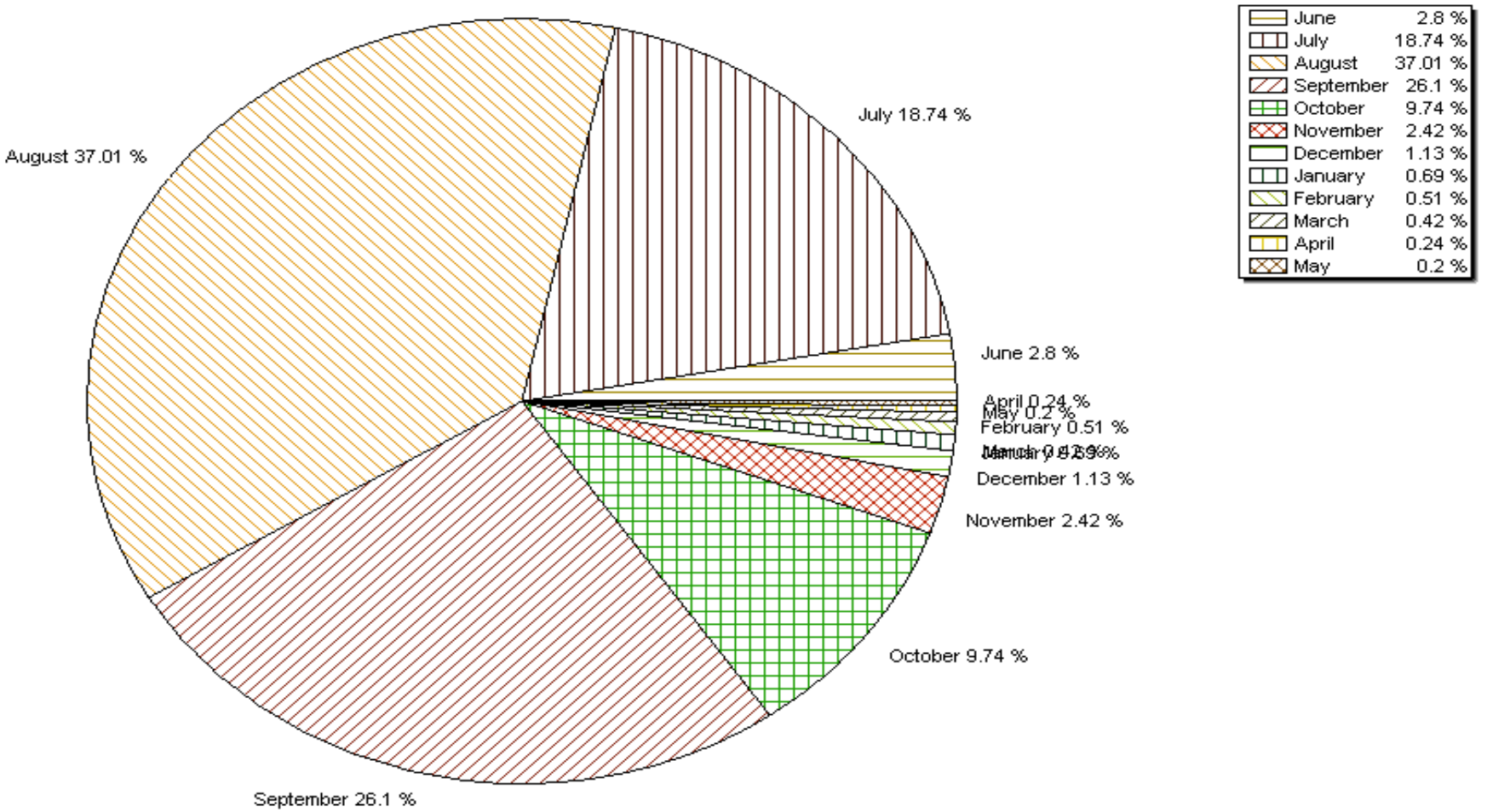
Monthly Average Runoff based on period : 1966-2015

Station Name : Perur (AG000G7)

Local River : Godavari

Division : Lower Godavari Div., Hyderabad

Sub-Division : Lower Godavari 1, Bhadrachalam



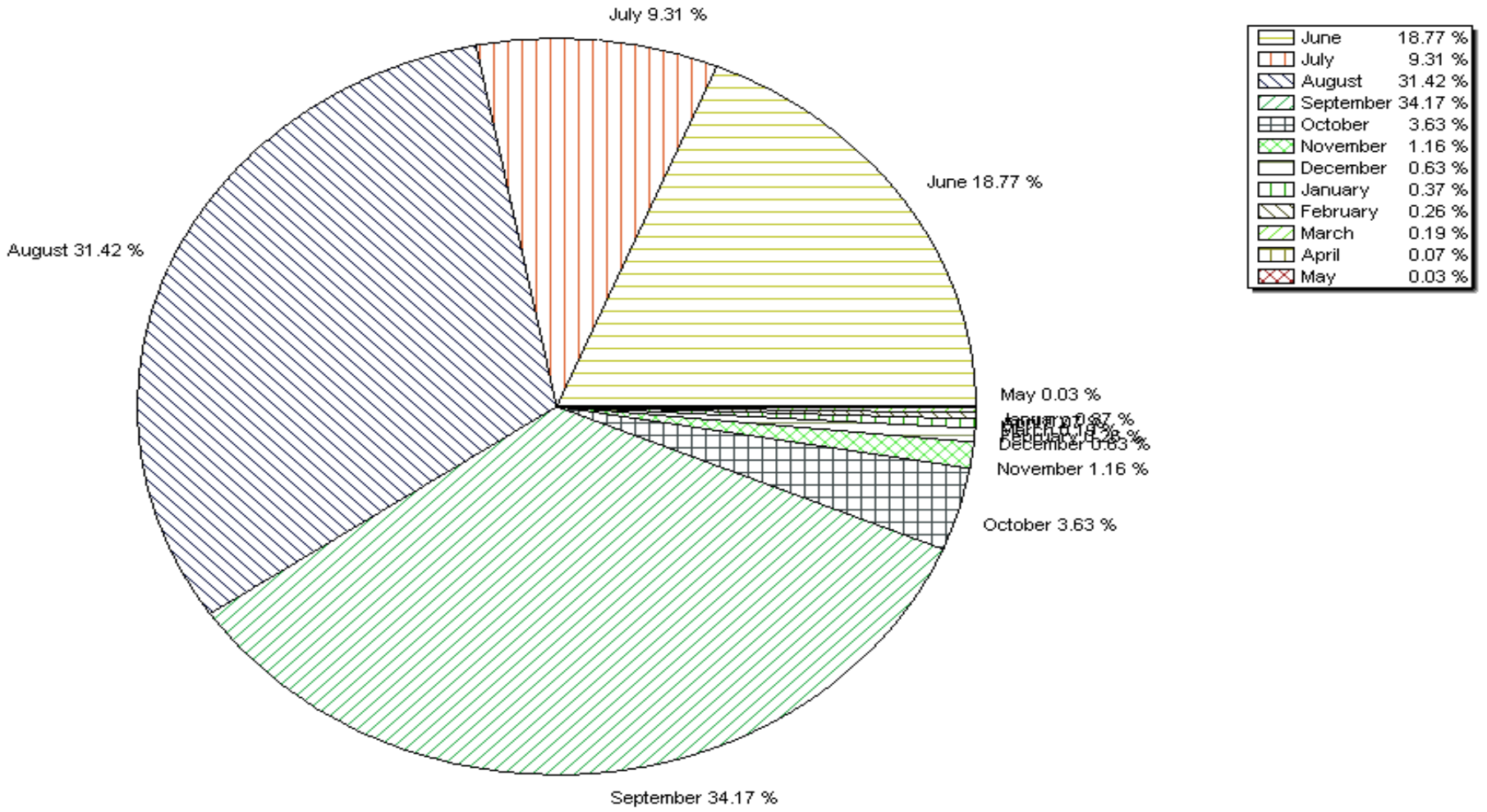
Monthly Runoff for the Year : 2015-2016

Station Name : Perur (AG000G7)

Local River : Godavari

Division : Lower Godavari Div., Hyderabad

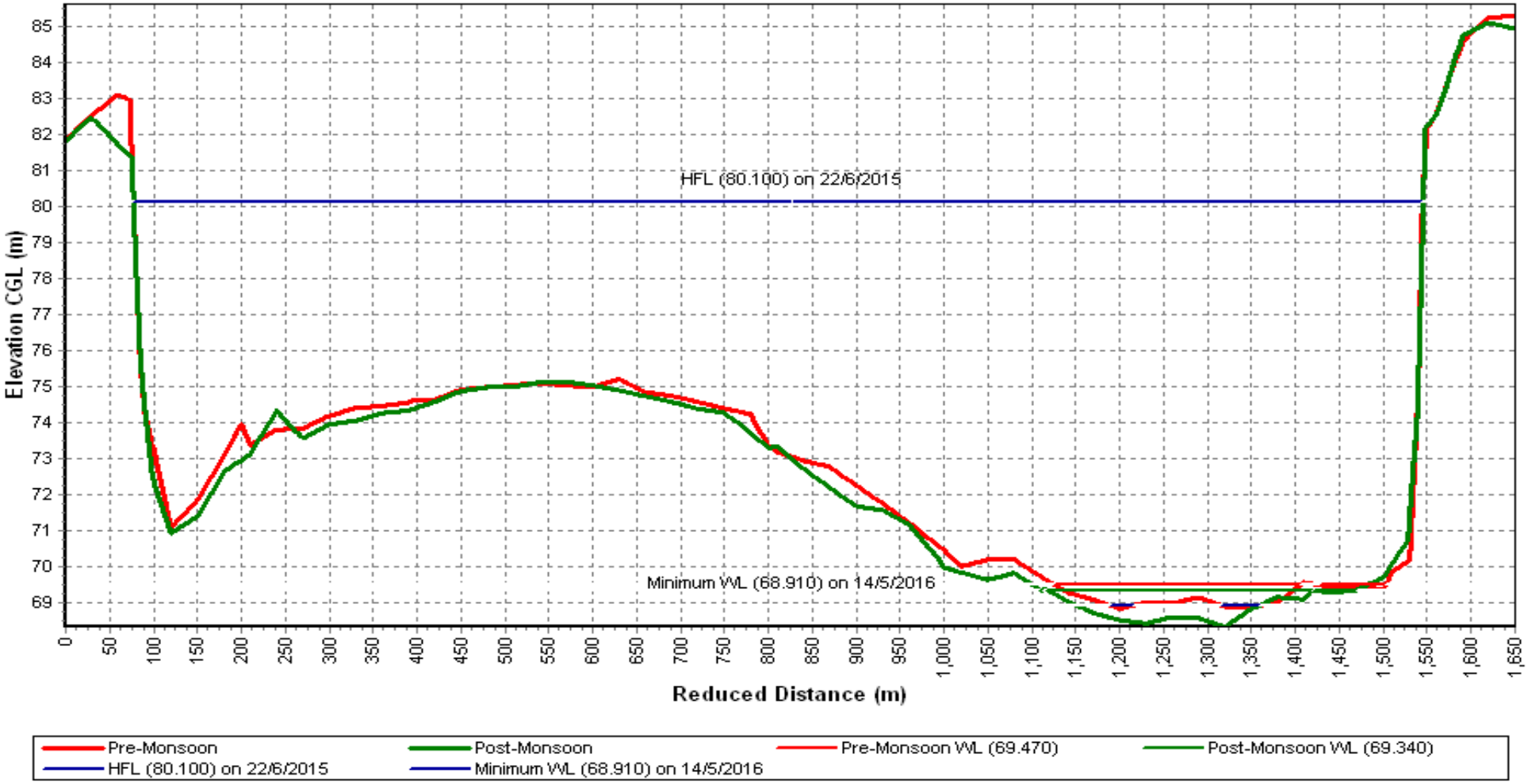
Sub-Division : Lower Godavari 1, Bhadrachalam



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

Station Name : Perur (AG000G7) **Division : Lower Godavari Div., Hyderabad**

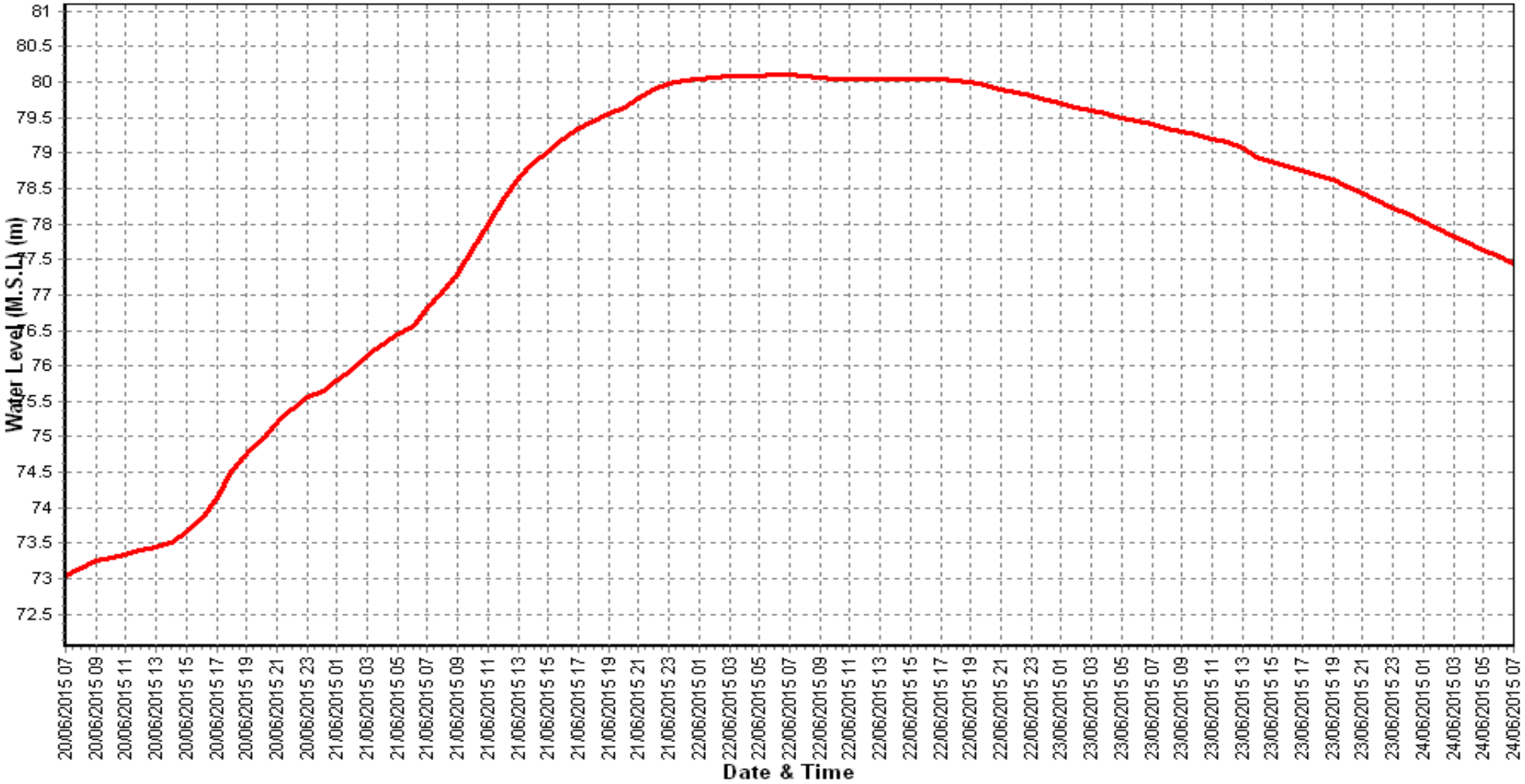
Local River : Godavari **Sub-Division : Lower Godavari 1, Bhadrachalam**



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

Station Name : Perur (AG000G7) **Division : Lower Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Lower Godavari 1, Bhadrachalam**

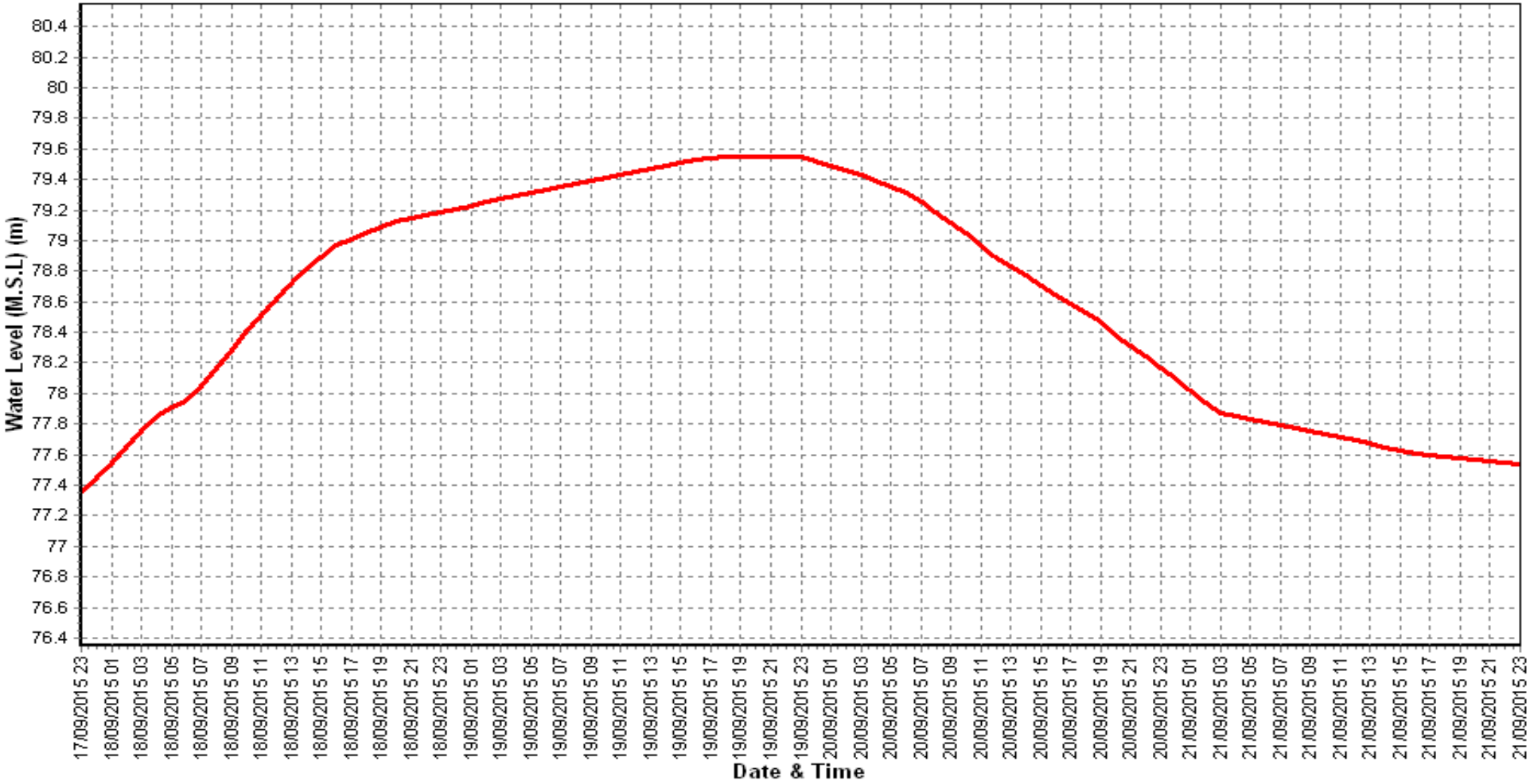


Time Span: 96 Hrs

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

Station Name : Perur (AG000G7) **Division : Lower Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Lower Godavari 1, Bhadrachalam**

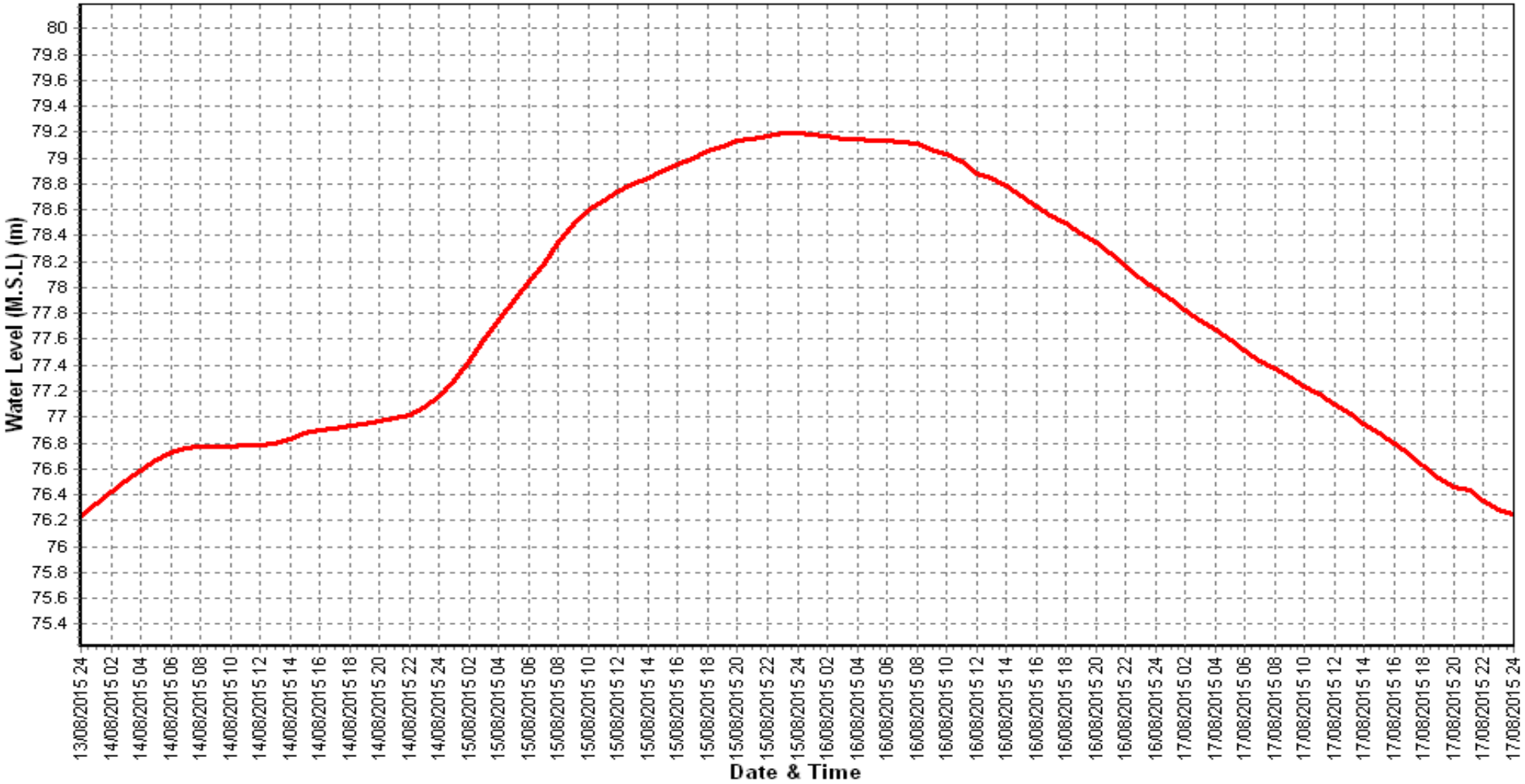


Time Span: 96 Hrs

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

Station Name : Perur (AG000G7) **Division : Lower Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Lower Godavari 1, Bhadrachalam**



Time Span: 96 Hrs

HISTORY SHEET

			Water Year	:	**2015-2016**
Site	:	**Pathagudem**	**Code**	:	**AGG00B5**
State	:	Chhattisgarh	District		Dantewara
Basin	:	Godavari	Independent River	:	Godavari
Tributary	:	Indravathi	Sub Tributary	:	-
Sub-Sub Tributary	:	-	Local River	:	Indravathi
Division	:	Lower Godavari Div., Hyderabad	Sub-Division	:	Indravati SD, Jagdalpur
Drainage Area	:	40000 Sq. Km.	Bank	:	Left
Latitude	:	18°49'00"	Longitude	:	80°21'00"
Zero of Gauge (m)	:	85.75 (m.s.l)	20.07.1964		
		Opening Date	Closing Date		
Gauge	:	01.07.1964	**HFL During 2015-16**	:	**98.110**
			Corres. Discharge	:	**19522.7 Cumes(Estimated)**
Discharge	:	20.07.1964	**Date & Time of**	:	**21.06.2015**
			Occurance	:	**19:00 hrs.**
Sediment	:	21.07.1965			
Water Quality	:	01.01.1972			

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

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1965-1966	7587	94.465	02.09.1965	3.520	86.200	31.05.1966
1966-1967	19718	99.810	05.09.1966	2.059	86.155	10.06.1966
1967-1968	16293	97.620	04.08.1967	5.359	86.355	12.06.1967
1968-1969	9340	95.085	15.09.1968	9.200	86.350	10.05.1969
1969-1970	17960	98.960	01.08.1969	11.79	86.300	25.05.1970
1970-1971	12182	96.400	29.08.1970	16.70	86.375	13.04.1971
1971-1972	6563	93.460	05.09.1971	6.799	86.305	30.05.1972
1972-1973	15155	97.638	05.07.1972	5.627	86.250	08.06.1972
1973-1974	13930	97.275	14.07.1973	6.695	86.330	03.06.1973
1974-1975	10302	95.490	11.08.1974	3.803	86.260	30.05.1975
1975-1976	15036	97.230	10.09.1975	4.095	86.265	02.06.1975
1976-1977	24862	101.958	21.07.1976	12.31	86.485	19.06.1976
1977-1978	14517	97.475	23.08.1977	15.61	86.385	15.06.1977
1978-1979	18461	98.880	16.08.1978	7.530	86.325	06.06.1978
1979-1980	16606	98.698	04.08.1979	6.400	86.335	02.05.1980
1980-1981	11190	95.915	02.08.1980	3.208	86.390	03.06.1980
1981-1982	18015	98.735	10.08.1981	3.899	86.490	07.06.1981
1982-1983	10045	94.940	14.08.1982	2.900	86.355	07.05.1983
1983-1984	12062	96.850	20.08.1983	0.360	86.530	30.05.1984
1984-1985	12706	96.430	02.08.1984	0.700	86.525	02.06.1984
1985-1986	5880	94.080	08.08.1985	4.906	86.660	27.04.1986

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**
1986-1987	32831	102.900	15.08.1986	4.800	86.660	08.06.1986
1987-1988	7297	94.490	29.08.1987	3.795	86.650	28.04.1988
1988-1989	9227	95.525	30.07.1988	3.757	86.505	31.05.1989
1989-1990	11316	96.775	23.08.1989	2.225	86.500	01.06.1989
1990-1991	31462	103.350	23.08.1990	10.90	86.440	27.05.1991
1991-1992	9081	96.400	31.07.1991	6.076	86.420	01.05.1992
1992-1993	14075	98.010	16.08.1992	4.836	86.195	27.04.1993
1993-1994	5183	93.380	04.08.1993	1.963	86.130	15.05.1994
1994-1995	20800	101.440	12.07.1994	2.566	86.150	03.06.1994
1995-1996	15679	99.175	25.07.1995	6.083	86.260	29.05.1996
1996-1997	4564	92.830	23.07.1996	5.611	86.240	08.06.1996
1997-1998	10803	96.090	23.08.1997	4.947	86.200	18.06.1997
1998-1999	5063	93.265	14.09.1998	2.193	86.160	02.05.1999
1999-2000	7969	94.630	02.09.1999	2.613	86.590	29.05.2000
2000-2001	9842	95.310	30.08.2000	1.045	86.480	28.05.2001
2001-2002	25077	101.150	21.08.2001	0.778	86.450	05.06.2001
2002-2003	11343	96.690	25.08.2002	0.290	86.220	31.05.2003
2003-2004	14072	97.010	24.08.2003	0.000	86.240	17.06.2003
2004-2005	12862	97.830	23.08.2004	1.819	86.470	31.05.2005
2005-2006	13753	97.550	14.09.2005	0.844	86.360	16.06.2005
2006-2007	35392	103.500	05.08.2006	2.850	86.250	31.05.2007
2007-2008	16810	99.010	08.08.2007	0.988	86.260	31.05.2008
2008-2009	12703	96.185	30.07.2008	0.100	86.150	31.05.2009
2009-2010	10446	95.235	28.08.2009	0.000	86.150	02.06.2009
2010-2011	25504	102.450	07.08.2010	3.964	86.420	15.06.2010
2011-2012	10853	96.160	02.09.2011	0.436	86.250	31.05.2012
2012-2013	13358	97.160	20.08.2012	0.231	86.240	08.06.2012
2013-2014	19496	99.770	01.08.2013	1.086	86.150	05.06.2013
2014-2015	23065	100.110	07.09.2014	2.580	86.450	15.06.2014

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

Stage-Discharge Data for the period 2015 - 2016

Station Name : Pathagudem (AGG00B5) **Division : Lower Godavari Div., Hyderabad**

Local River : Indravathi **Sub-Division : Indravati SD, Jagdalpur**

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	87.610	115.7 *	88.430	579.0 *	88.090	427.8	91.835	3956	88.570	763.6	87.190	116.1 *
2	87.040	30.70	88.280	504.6 *	87.980	371.0 *	90.950	2171	88.430	678.3 *	87.180	116.1
3	86.895	25.07	88.250	490.3 *	87.870	282.0	90.780	2130	88.335	608.3	87.170	109.0
4	86.850	15.89	88.090	417.6 *	87.875	329.0 #	90.490	1964	88.290	509.4 *	87.160	113.4
5	86.810	11.88	88.210	471.6 *	87.805	302.3 #	89.970	1665	88.295	546.7	87.150	110.7
6	86.790	12.01	88.140	439.7 *	87.815	306.1 #	89.640	1361 *	88.215	535.4	87.150	110.0
7	86.790	30.51	87.800	300.5 *	87.865	287.5	89.430	1202 #	88.160	458.5	87.140	108.5
8	86.790	11.61	87.735	283.3	87.910	307.9	89.135	1037	88.100	400.6	87.130	102.5 *
9	86.780	10.88	87.640	258.5	88.470	599.6 *	89.095	1026	88.030	352.8	87.110	99.68
10	86.865	20.23	87.580	225.8	89.120	985.4 *	89.120	1069	87.940	357.3	87.090	93.65
11	86.850	19.18	87.530	206.3	89.030	926.4 *	89.030	963.7	87.870	327.0 *	87.070	92.21 *
12	86.850	19.02	87.480	193.2 *	89.390	1173 *	89.180	1026 *	87.815	317.9	87.050	91.21
13	86.920	24.31	87.670	270.6	92.080	3912 *	89.020	920.0 *	87.750	299.5	87.040	86.91
14	87.060	27.44 *	87.705	272.5	92.090	3925 *	88.940	948.7	87.690	271.9	87.030	81.51
15	87.230	42.31	87.700	274.8	91.620	3333 *	89.110	1078	87.650	246.0	87.010	77.92 *
16	87.335	54.78	87.910	312.7	90.760	2372 *	89.555	1125	87.610	227.7	86.990	74.37
17	88.075	263.1	88.085	439.0	91.000	2359	91.800	3554 *	87.590	227.5 #	86.980	69.05
18	88.550	480.5 *	87.910	342.7 *	90.760	2086	95.930	10540 *	87.580	224.2 *	86.970	65.55
19	88.420	414.0 *	87.910	342.7 *	90.095	1885	94.300	7348 *	87.570	224.0	86.960	62.83
20	90.080	1651 *	88.035	378.4	90.320	1990	92.960	5148 *	87.510	221.3	86.950	60.89
21	96.440	14184 *	88.450	589.3 *	90.140	1754	92.510	4495 *	87.460	206.4	86.950	59.73
22	97.560	17670 *	89.070	952.4 *	89.700	1471	93.180	5483 *	87.440	181.4 *	86.950	59.43 *
23	94.830	9843 *	90.040	1691 *	89.500	1254 *	92.240	4125 *	87.410	181.7	86.940	58.10
24	92.220	4489 *	90.550	2161 *	89.270	1088 #	91.200	2797	87.390	167.2 *	86.940	56.95
25	90.640	2259 *	91.080	2711 *	88.980	983.2	90.300	1924 *	87.350	156.3 *	86.930	56.33 *
26	89.750	1338 *	90.170	1805 *	88.795	780.8 #	89.750	1281	87.310	131.6	86.920	55.53
27	89.320	980.4 *	89.780	1473 *	88.605	672.1 #	89.430	1202 *	87.240	128.9	86.910	57.48
28	88.960	724.1 *	89.190	1033 *	88.955	878.6 #	89.145	859.4	87.230	124.6	86.910	56.93
29	88.670	546.5 *	88.790	777.9 *	91.655	3370	88.925	838.9	87.230	124.3	86.910	56.93 *
30	88.430	418.9 *	88.410	568.8 *	93.100	5360 *	88.755	779.7	87.210	122.2	86.900	55.15
31			88.250	490.3 *	91.810	4065			87.200	115.0		
n-Daily Mean												
I Ten-Daily	86.922	28.45	88.015	397.1	88.080	419.9	90.044	1758	88.237	521.1	87.147	108.0
I Ten-Daily	87.737	299.6	87.794	303.3	90.714	2396	90.982	3265	87.663	258.7	87.005	76.24
II Ten-Dail	91.682	5245	89.435	1296	90.046	1971	90.544	2378	87.315	149.0	86.926	57.26
Monthly												
Min.	86.780	10.88	87.480	193.2	87.805	282.0	88.755	779.7	87.200	115.0	86.900	55.15
Max.	97.560	17670	91.080	2711	93.100	5360	95.930	10540	88.570	763.6	87.190	116.1
Mean	88.780	1858	88.447	685.7	89.628	1608	90.523	2467	87.725	304.4	87.026	80.49

Annual Runoff in MCM = 18582 Annual Runoff in mm = 465

Peak Observed Discharge = 4065 cumecs on 31/08/2015 Corres. Water Level :91.81 m

Lowest Observed Discharge = 0.228 cumecs on 07/05/2016 Corres. Water Level :86.39 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 : Pathagudem (AGG00B5) **Division : Lower Godavari Div., Hyderabad**

Local River : Indravathi **Sub-Division : Indravati SD, Jagdalpur**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	86.890	52.24	86.650	27.85	86.510	13.52	86.470	6.679	86.610	6.785	86.410	0.851 *
2	86.880	53.04	86.650	27.41	86.510	12.65	86.500	9.282	86.590	6.355	86.410	0.741
3	86.870	52.19	86.650	27.11 *	86.510	12.04	86.500	6.431	86.580	5.133 *	86.400	0.367
4	86.850	51.28	86.640	24.09	86.510	12.06	86.620	6.467	86.570	5.975	86.400	0.332
5	86.850	49.75	86.640	23.44	86.510	11.78	86.620	6.351	86.550	5.695	86.400	0.255
6	86.840	48.73 *	86.630	23.13	86.510	11.68	86.630	6.486 *	86.550	6.100	86.390	0.244
7	86.830	42.26	86.620	22.75	86.510	11.34 *	86.620	6.382	86.540	5.555	86.390	0.228
8	86.820	42.03	86.610	22.35	86.510	10.89	86.620	6.166	86.530	4.092 *	86.390	0.228 *
9	86.810	39.90	86.600	21.98	86.500	10.87	86.610	6.130	86.520	3.860 *	86.380	0.214 *
10	86.810	38.85	86.590	21.55 *	86.500	10.37	86.610	5.991	86.520	3.860 *	86.380	0.214 *
11	86.800	37.53	86.590	20.92	86.500	9.698	86.630	5.901	86.520	2.581	86.380	0.214 *
12	86.790	36.29	86.580	20.34	86.490	9.702	86.620	5.746	86.510	2.521	86.370	0.201 *
13	86.780	36.19 *	86.570	19.44	86.490	9.148	86.600	5.976 *	86.510	2.419	86.370	0.201 *
14	86.770	36.03	86.570	19.19	86.490	9.023 *	86.580	5.625	86.500	2.319 *	86.360	0.197 *
15	86.760	35.92	86.560	18.94 *	86.490	8.543	86.570	5.563	86.490	2.211	86.340	0.176 *
16	86.760	34.39	86.560	18.72	86.480	7.699	86.570	5.509	86.480	2.162	86.330	0.172 *
17	86.750	32.58	86.550	18.43 *	86.480	8.195	86.580	5.798	86.470	1.743 *	86.320	0.175 *
18	86.750	33.02	86.550	18.47	86.480	7.709	86.620	6.087	86.470	1.443	86.330	0.172 *
19	86.740	32.11	86.540	17.85	86.480	7.482	86.660	6.952	86.460	1.350	86.460	1.350 *
20	86.730	32.08 *	86.540	17.13	86.480	7.362	86.660	6.952 *	86.460	1.350 *	86.480	2.162 *
21	86.720	31.84	86.540	16.98	86.470	7.162 *	86.660	6.814	86.450	1.283	86.490	2.562 *
22	86.710	31.38	86.530	16.62	86.470	6.090	86.650	6.653	86.450	1.253	86.760	6.777 *
23	86.700	30.86	86.530	16.04	86.470	6.788	86.640	6.579	86.450	1.217	86.710	5.777
24	86.700	30.86 *	86.530	16.01 *	86.470	6.813	86.640	6.224	86.440	1.166 *	86.680	5.278
25	86.690	30.06 *	86.530	15.54	86.470	6.601	86.650	8.409 *	86.440	1.066	86.650	4.517
26	86.680	29.73	86.530	15.54 *	86.470	6.539	86.650	8.409	86.430	1.003	86.690	5.658
27	86.670	29.53 *	86.530	15.14	86.460	6.328	86.650	8.409 *	86.430	1.027	86.830	7.697
28	86.660	29.22	86.520	14.66	86.460	6.328 *	86.650	7.391	86.420	0.984	86.840	7.917
29	86.660	29.04	86.520	14.54	86.460	5.310	86.650	7.640	86.430	0.981	86.820	7.577 *
30	86.660	28.70	86.520	14.35			86.650	7.242	86.420	0.984	86.790	6.713
31	86.660	25.16 *	86.520	13.99 *			86.630	7.100			86.760	6.197
n-Daily Me												
I Ten-Daily	86.845	47.03	86.628	24.17	86.508	11.72	86.580	6.637	86.556	5.341	86.395	0.367
I Ten-Daily	86.763	34.61	86.561	18.94	86.486	8.456	86.609	6.011	86.487	2.010	86.374	0.502
II Ten-Dail	86.683	29.67	86.527	15.40	86.467	6.440	86.647	7.352	86.436	1.096	86.729	6.061
Monthly												
Min.	86.660	25.16	86.520	13.99	86.460	5.310	86.470	5.509	86.420	0.981	86.320	0.172
Max.	86.890	53.04	86.650	27.85	86.510	13.52	86.660	9.282	86.610	6.785	86.840	7.917
Mean	86.761	36.86	86.571	19.37	86.488	8.956	86.613	6.688	86.493	2.816	86.507	2.431

Peak Computed Discharge = 17670 cumecs on 22/06/2015 **Corres. Water Level :97.56 m**

Lowest Computed Discharge = 0.172 cumecs on 16/05/2016 **Corres. Water Level :86.33 m**

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

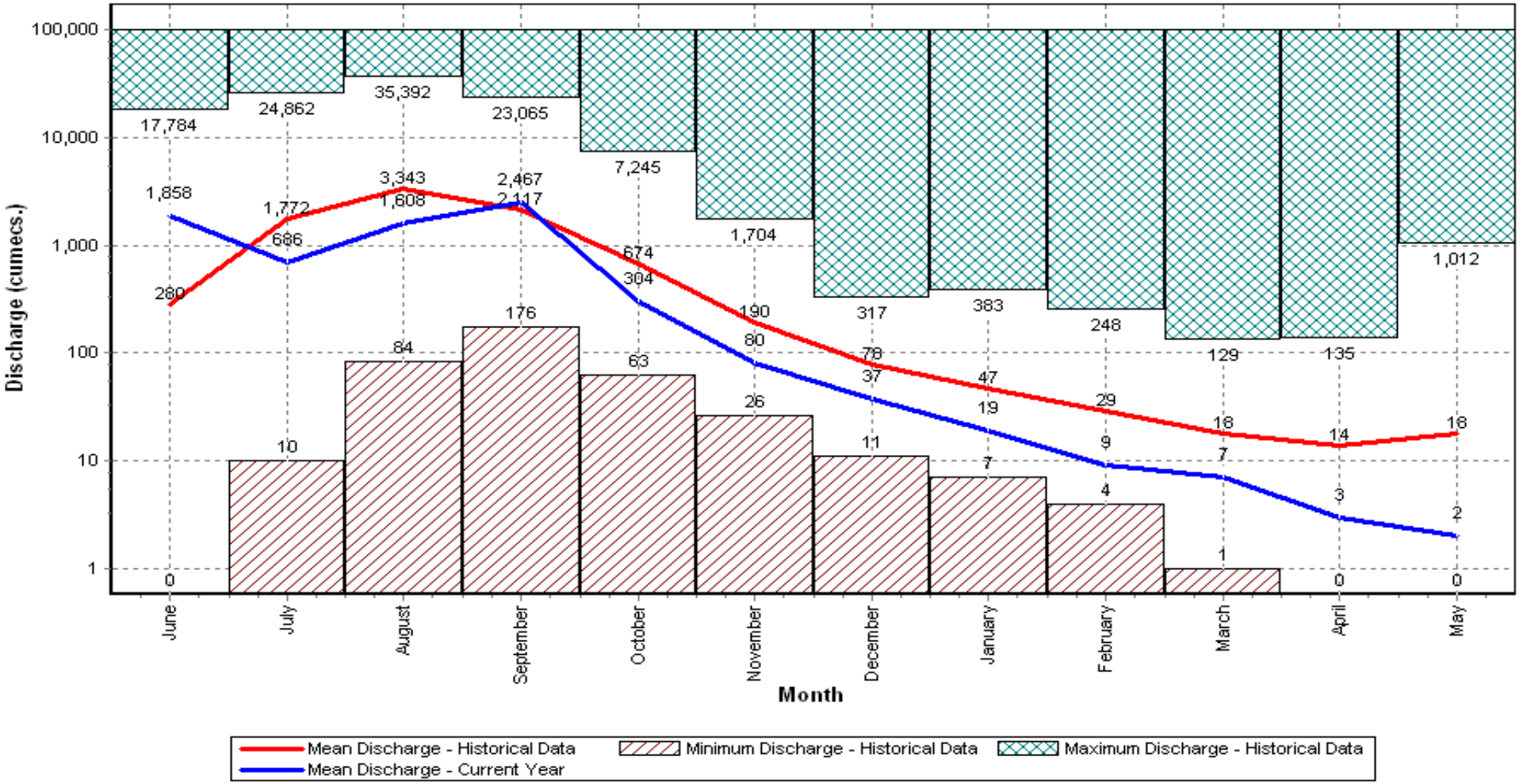
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016

Station Name : Pathagudem (AGG00B5) | **Data considered : 1965-2016** | **Division : Lower Godavari Div., Hyderabad**

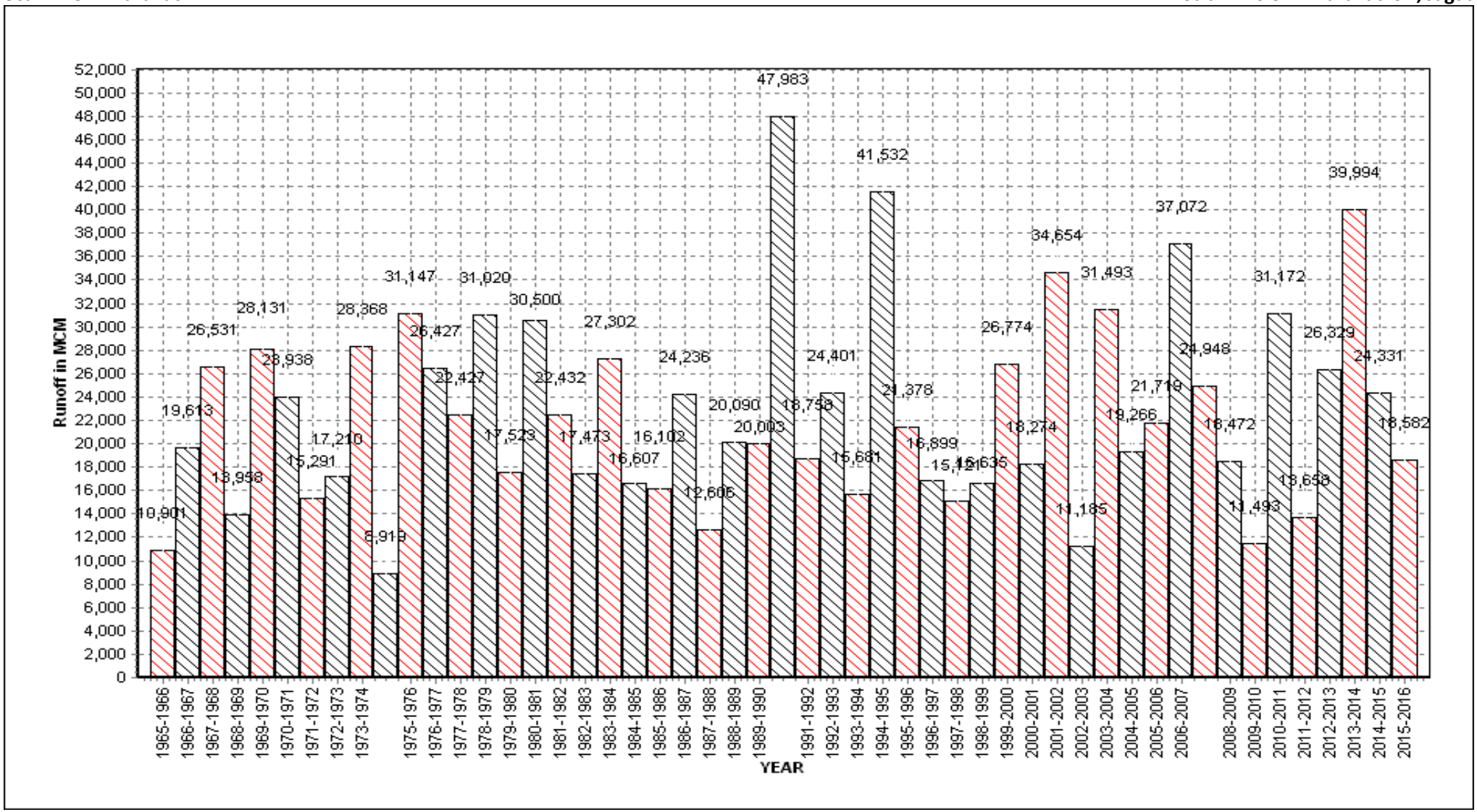
Local River : Indravathi | **Sub-Division : Indravati SD, Jagdalpur**



Annual Runoff Values for the period: 1965 - 2016

Station Name : Pathagudem (AGG00B5) **Division : Lower Godavari Div., Hyderabad**

Local River : Indravathi **Sub-Division : Indravati SD, Jagdalpur**



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

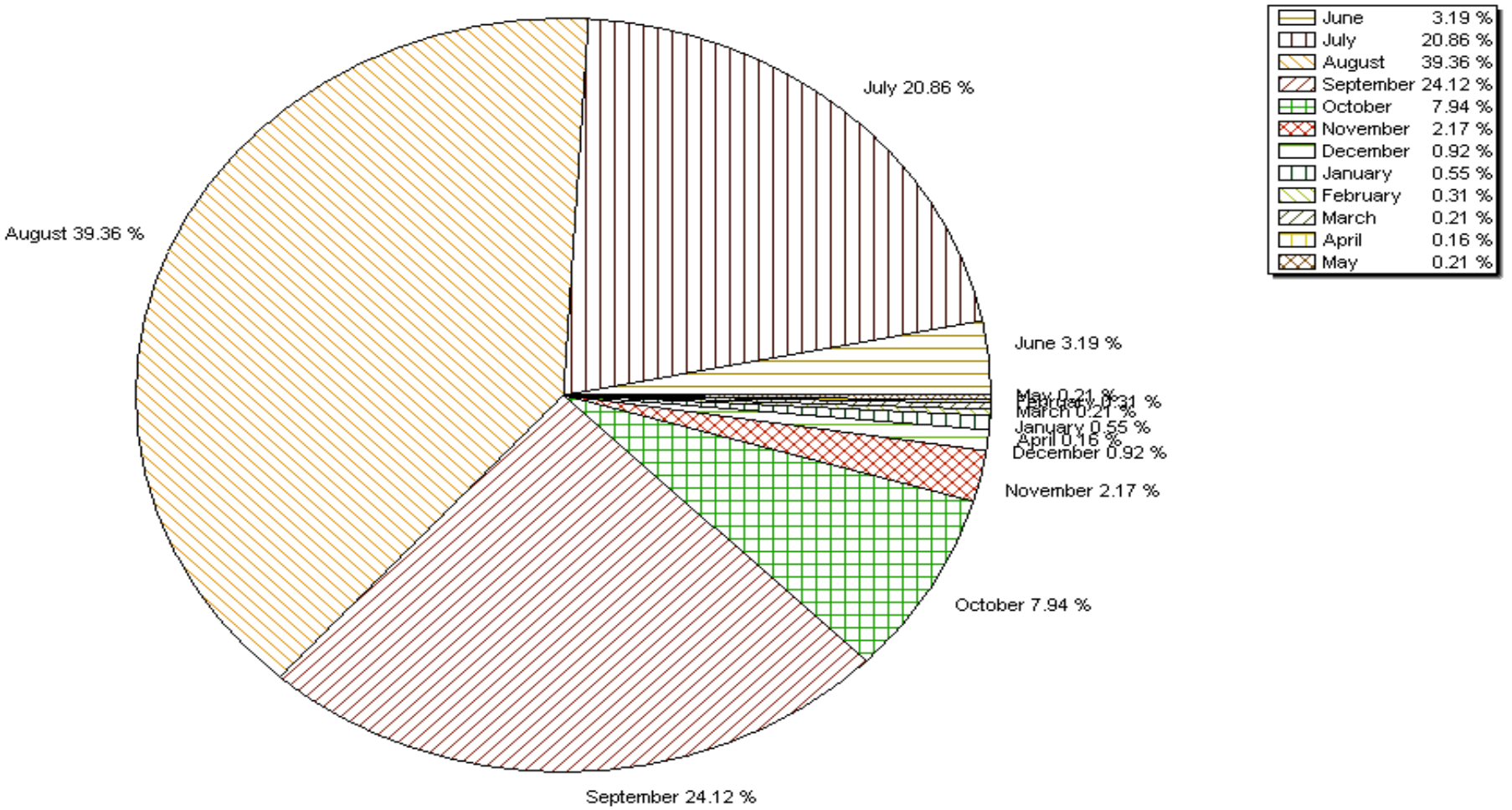
Monthly Average Runoff based on period : 1965-2015

Station Name : Pathagudem (AGG00B5)

Division : Lower Godavari Div., Hyderabad

Local River : Indravathi

Sub-Division : Indravati SD, Jagdalpur



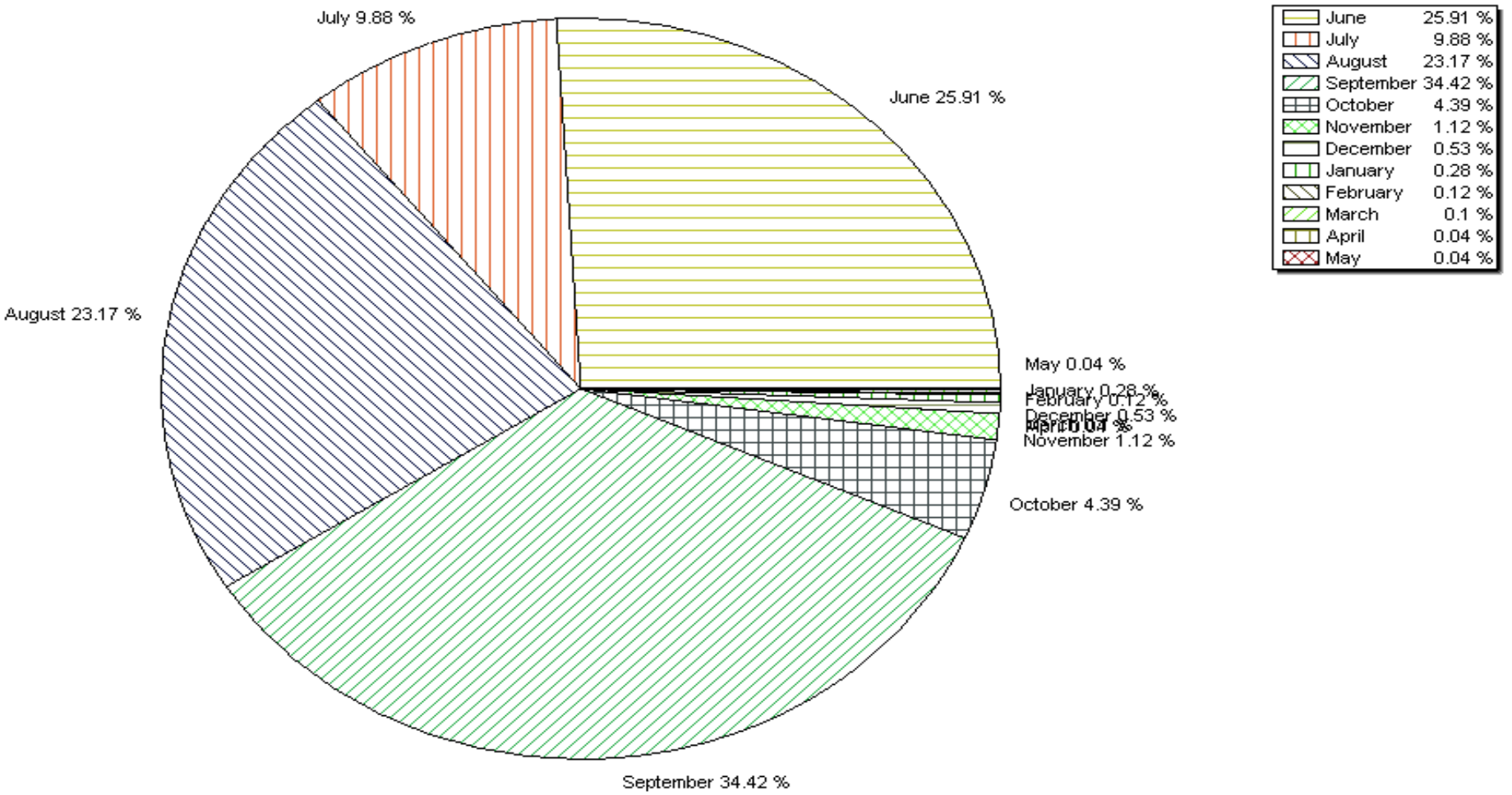
Monthly Runoff for the Year : 2015-2016

Station Name : Pathagudem (AGG00B5)

Local River : Indravathi

Division : Lower Godavari Div., Hyderabad

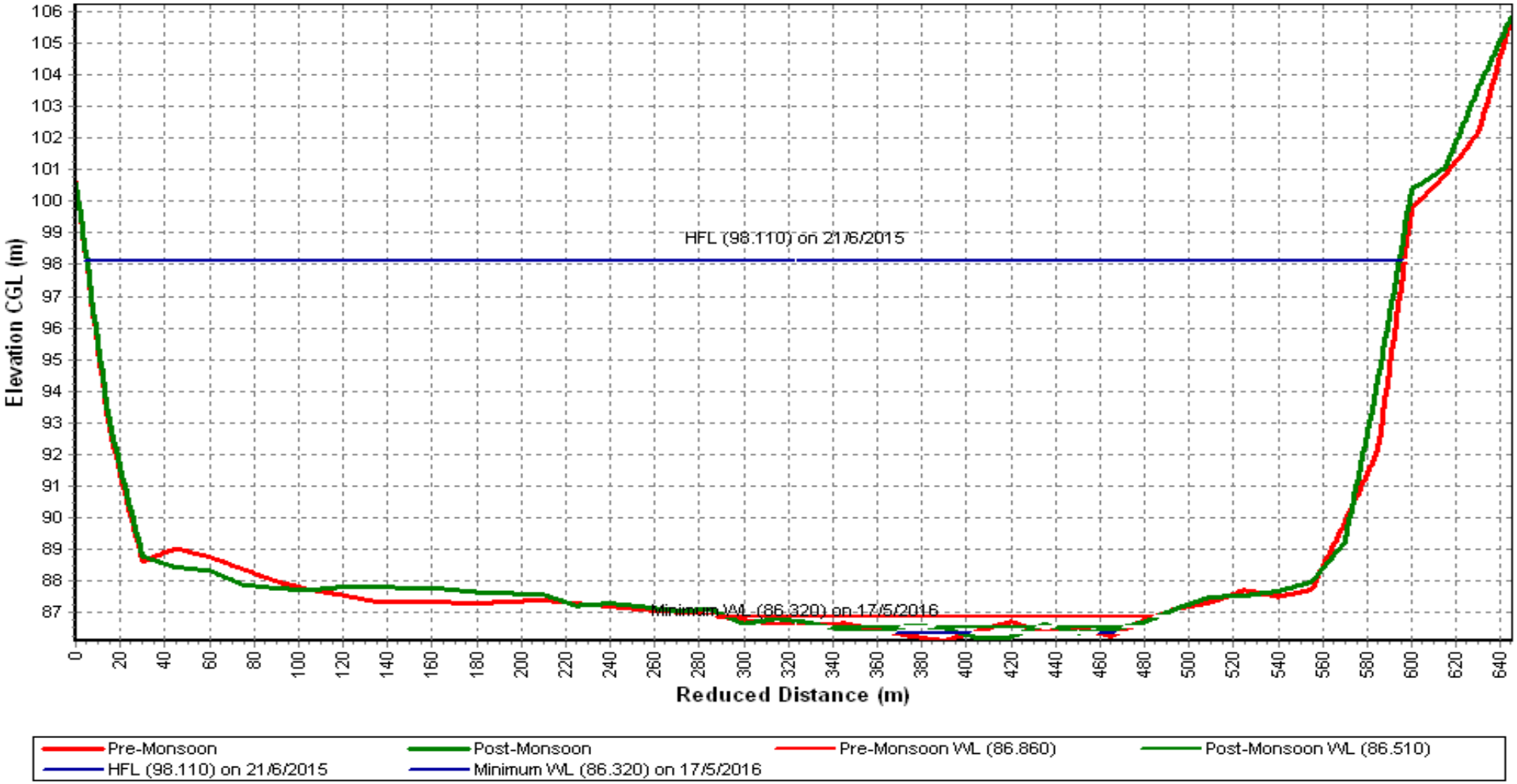
Sub-Division : Indravati SD, Jagdalpur



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

Station Name : Pathagudem (AGG00B5) **Division : Lower Godavari Div., Hyderabad**

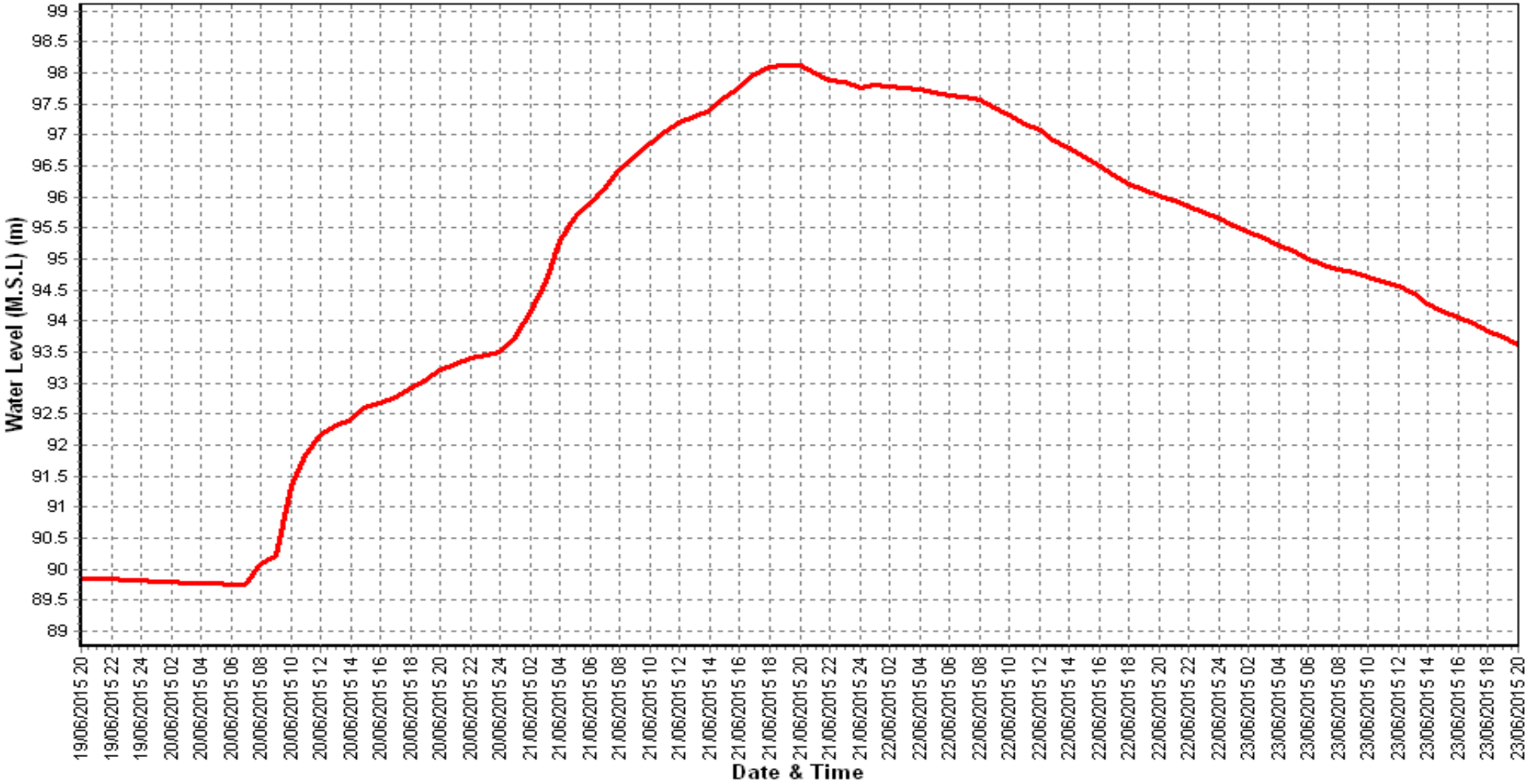
Local River : Indravathi **Sub-Division : Indravati SD, Jagdalpur**



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

Station Name : Pathagudem (AGG00B5) **Division : Lower Godavari Div., Hyderabad**

Local River : Indravathi **Sub-Division : Indravati SD, Jagdalpur**

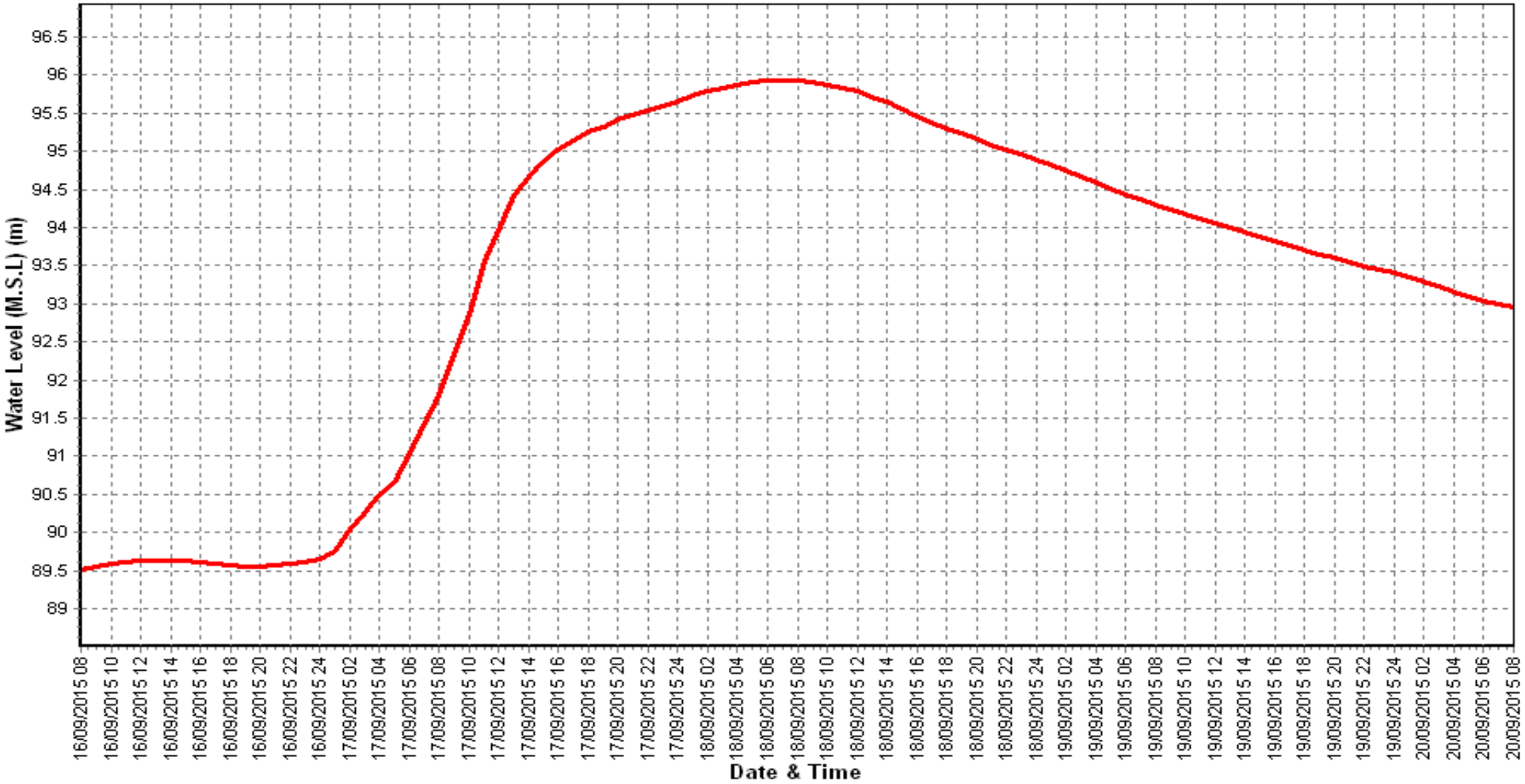


Time Span: 96 Hrs

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

Station Name : Pathagudem (AGG00B5) **Division : Lower Godavari Div., Hyderabad**

Local River : Indravathi **Sub-Division : Indravati SD, Jagdalpur**

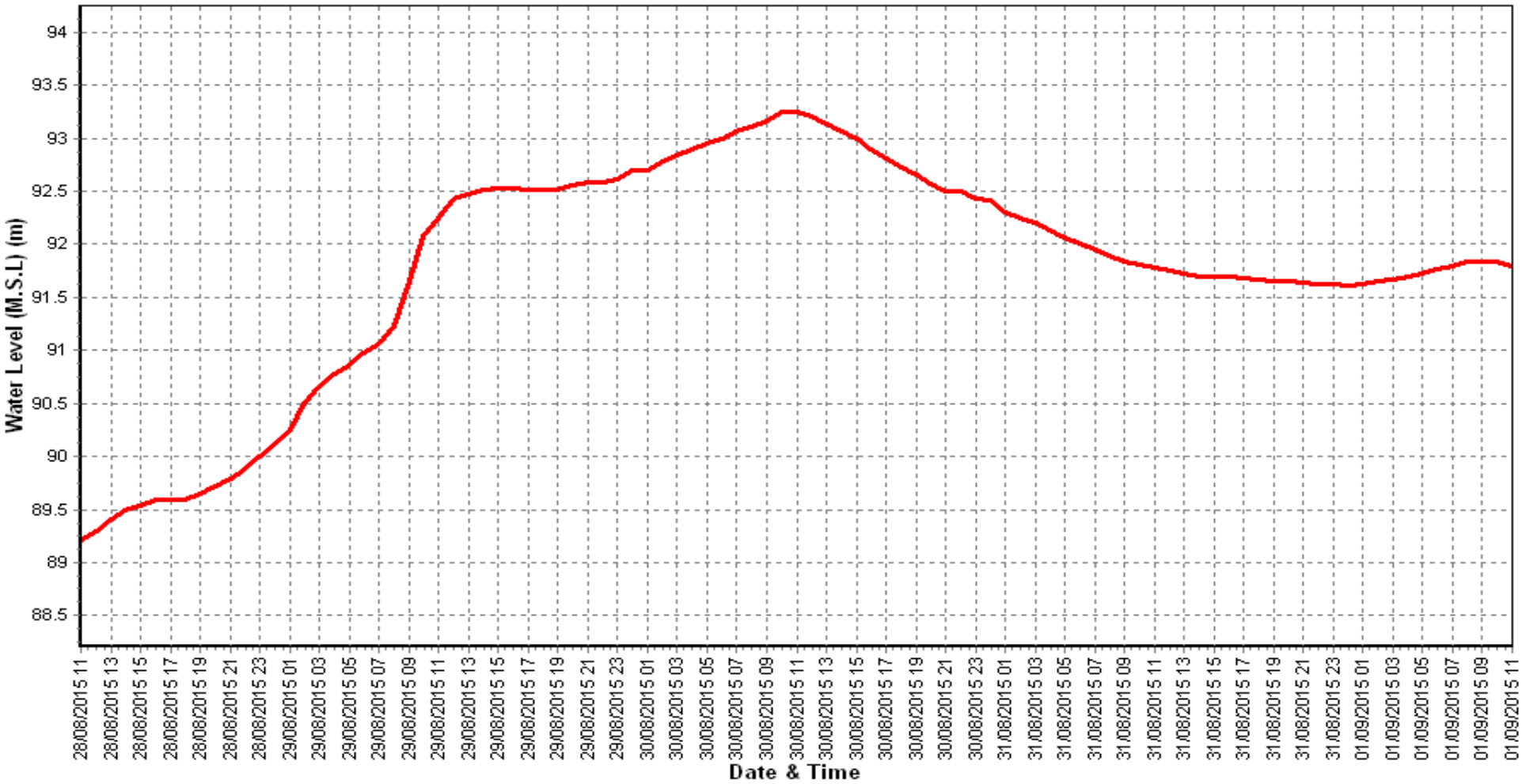


Time Span: 96 Hrs

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

Station Name : Pathagudem (AGG00B5) **Division : Lower Godavari Div., Hyderabad**

Local River : Indravathi **Sub-Division : Indravati SD, Jagdalpur**



Time Span: 96 Hrs

HISTORY SHEET

			Water Year	:	**2015-2016**
Site	:	**Tumnar**	**Code**	:	**AGG60B1**
State	:	Chhattisgarh	District		Dantewara
Basin	:	Godavari	Independent River	:	Godavari
Tributary	:	Indravathi	Sub Tributary	:	Dantewara
Sub-Sub Tributary	:	--'	Local River	:	Dantewara
Division	:	L Godavari Div., Hyderabad	Sub-Division	:	Indravathi S D, Jagdalpur
Drainage Area	:	1700 Sq. Km.	Bank	:	Right
Latitude	:	19°00'30"	Longitude	:	81°14'20"
Zero of Gauge (m)	:	315.007 (m.s.l)	18.03.1989		
		Opening Date	Closing Date		
Gauge	:	18.03.1989	**HFL During 2015-16**	:	**322.557**
			Corres. Discharge	:	**1347.766 Cumes(Estimated)**
Discharge	:	09.12.1991	**Date & Time of**	:	**21.06.2015**
			Occurance	:	**06:00 hrs.**
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**
1992-1993	1677	323.087	31.08.1992	0.194	317.342	15.05.1993
1993-1994	514.9	320.767	08.07.1993	0.000	317.397	27.06.1993
1994-1995	1683	322.967	30.08.1994	1.396	317.347	19.04.1995
1995-1996	1279	322.627	02.09.1995	0.000	317.317	10.06.1995
1996-1997	1329	322.707	12.08.1996	0.837	317.547	26.05.1997
1997-1998	466.6	320.452	29.08.1997	0.109	317.567	29.05.1998
1998-1999	827.7	321.622	11.07.1998	0.000	317.567	09.06.1998
1999-2000	991.1	322.457	24.07.1999	0.063	317.497	10.06.1999
2000-2001	534.3	320.867	30.08.2000	0.188	317.427	21.05.2001
2001-2002	1179	322.617	21.08.2001	0.317	317.302	25.05.2002
2002-2003	658.4	321.682	24.08.2002	0.000	317.217	30.05.2003
2003-2004	1330	322.527	27.08.2003	0.226	317.217	14.06.2003
2004-2005	3584	325.977	14.06.2004	0.523	317.417	19.05.2005
2005-2006	714.0	321.267	14.09.2005	0.000	317.347	12.04.2006
2006-2007	2757	325.207	04.08.2006	0.709	317.427	03.06.2006
2007-2008	3193	325.607	06.10.2007	0.348	316.937	26.05.2008
2008-2009	1564	323.097	29.07.2008	0.650	317.237	30.04.2009
2009-2010	599.5	321.122	31.08.2009	0.275	317.177	21.05.2010
2010-2011	1924	323.657	25.07.2010	0.463	317.287	11.06.2010
2011-2012	407.0	320.177	03.09.2011	0.443	317.357	30.05.2012
2012-2013	790.7	321.567	30.08.2012	0.417	317.377	09.06.2012
2013-2014	1005	322.227	01.08.2013	0.672	317.367	07.06.2013

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**
2014-2015	510.4	320.447	23.07.2014	0.000	317.237	13.04.2015

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

Stage-Discharge Data for the period 2015 - 2016

Station Name : Tumnar (AGG60B1) **Division : L Godavari Div., Hyderabad**

Local River : Dantewara **Sub-Division : Indravathi S D, Jagdalpur**

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	317.217	0.534 #	318.152	48.98 #	317.707	14.24	318.927	149.1	317.967	28.49	317.597	8.336 *
2	317.207	0.441 #	317.947	31.60 #	317.657	13.51 *	318.702	131.5	317.947	24.62 *	317.587	6.704
3	317.327	2.083	318.082	49.62	317.607	8.806	318.432	83.58	317.972	23.62	317.587	7.897
4	317.257	1.003	317.982	41.07	317.657	11.58	318.272	60.56	317.937	24.02 *	317.577	7.766
5	317.257	0.938	317.867	25.85 *	317.687	12.80	318.237	58.15	318.002	28.05 #	317.567	7.840
6	317.302	1.595	317.772	20.16	317.687	15.03 #	318.247	58.33 *	317.932	24.56	317.567	7.972
7	317.577	9.853 *	317.717	17.06	317.697	15.55 #	318.282	55.34	317.887	21.15 #	317.567	7.391
8	317.532	8.211	317.697	15.21	317.747	18.31 #	318.377	89.27	317.847	19.41	317.557	7.061 *
9	317.417	4.837	317.707	14.98	317.817	22.55 *	318.347	69.66	317.827	19.29	317.557	6.793
10	317.342	2.910	317.717	16.00	318.812	142.0	318.467	90.12	317.807	16.01	317.557	6.554
11	317.347	2.863	317.742	17.39	319.172	196.3	318.337	66.31	317.797	16.49 *	317.550	6.850 *
12	317.307	2.316	317.787	20.68 *	318.852	156.8	318.517	90.90	317.777	12.11	317.527	6.388
13	318.837	121.7	317.737	16.97	319.627	313.4	318.377	72.44 *	317.757	14.27	317.527	6.254
14	317.927	30.11 *	317.677	11.68	318.952	173.6	318.622	104.2	317.727	13.29 *	317.517	6.322
15	317.922	29.74 #	317.707	16.54	318.447	80.68 *	318.742	113.1	317.717	12.87 *	317.537	6.466 *
16	318.607	101.2 *	317.707	15.82	318.337	67.94 *	318.707	113.9	317.717	12.87 *	317.537	6.718
17	318.647	106.7 *	317.647	10.25	318.407	78.65	320.407	492.4 *	317.747	14.17 *	317.527	6.293
18	318.327	71.71	317.627	12.07 *	318.367	71.30	320.327	468.7 #	317.737	13.73 *	317.537	6.740
19	318.417	76.49	317.707	16.08 *	318.302	64.11	319.447	247.0 #	317.727	13.82	317.547	7.652
20	320.477	513.6 *	317.772	20.21	318.267	61.03	319.497	257.7 *	317.707	11.51	317.547	7.300
21	322.437	1289 *	317.817	24.06	318.232	55.23	319.447	196.4	317.697	10.78	317.517	5.818
22	320.167	423.2 *	317.762	18.41	318.457	84.28	318.987	127.6	317.687	10.68 *	317.507	5.628 *
23	320.087	401.3 *	317.792	21.47	318.237	57.31 *	318.477	84.57	317.667	10.29	317.507	6.860
24	318.777	115.5	319.012	166.4	318.162	54.45	318.307	68.39	317.657	10.47 *	317.507	6.514
25	318.497	88.62	318.367	74.47	318.067	41.32	318.237	57.31 *	317.677	11.24 *	317.497	5.362 *
26	318.652	105.7	318.097	43.94 *	317.997	35.95	318.182	56.86	317.667	10.18	317.487	5.806
27	318.467	83.63	317.937	27.39	318.102	47.80	318.117	45.74 *	317.657	9.892	317.487	5.581
28	318.207	54.29 *	317.857	24.64	320.467	526.6	318.077	40.51	317.647	9.642	317.477	4.688
29	317.962	32.74 #	317.807	22.71	319.797	315.2	318.017	33.32	317.617	9.298	317.467	4.607 *
30	318.167	50.40 #	317.767	19.48 #	319.247	206.4 *	317.997	33.05	317.617	9.850	317.467	4.535
31			317.737	17.74 #	318.842	134.7			317.607	9.601		
Daily Mean												
Ten-Dai	317.343	3.241	317.864	28.05	317.807	27.44	318.429	84.56	317.913	22.92	317.572	7.431
Ten-Dai	318.382	105.6	317.711	15.77	318.673	126.4	319.098	202.7	317.741	13.51	317.535	6.698
Ten-Da	319.142	264.4	317.996	41.88	318.692	141.8	318.385	74.38	317.654	10.17	317.492	5.540
Monthly												
Min.	317.207	0.441	317.627	10.25	317.607	8.806	317.997	33.05	317.607	9.298	317.467	4.535
Max.	322.437	1289	319.012	166.4	320.467	526.6	320.407	492.4	318.002	28.49	317.597	8.336
Mean	318.289	124.4	317.861	29	318.400	99.92	318.637	120.5	317.766	15.36	317.533	6.557

Annual Runoff in MCM = 1058 Annual Runoff in mm = 622

Peak Observed Discharge = 526.6 cumecs on 28/08/2015 Corres. Water Level :320.467 m

Lowest Observed Discharge = 0.075 cumecs on 25/04/2016 Corres. Water Level :317.097 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 : Tumnar (AGG60B1) **Division : L Godavari Div., Hyderabad**

Local River : Dantewara **Sub-Division : Indravathi S D, Jagdalpur**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	317.457	4.332	317.347	2.040	317.287	1.535	317.247	0.791	317.217	0.403	317.167	0.321 *
2	317.457	4.527	317.337	1.902	317.277	1.215	317.237	0.588	317.217	0.404	317.157	0.225
3	317.457	4.588	317.327	1.514 *	317.277	1.356	317.237	0.569	317.217	0.401 *	317.157	0.230
4	317.477	5.470	317.327	1.767	317.277	1.270	317.237	0.451	317.207	0.345	317.147	0.189
5	317.467	4.781	317.327	1.514 *	317.287	1.413	317.227	0.422	317.207	0.370	317.187	0.262
6	317.457	4.370 *	317.327	1.514 *	317.277	1.283	317.227	0.422 *	317.197	0.309	317.177	0.246
7	317.447	4.300	317.327	1.514 *	317.277	1.283 *	317.257	1.140	317.197	0.305	317.197	0.280
8	317.437	4.045	317.317	1.816	317.277	1.259	317.237	0.557	317.187	0.301 *	317.257	0.959 *
9	317.437	3.688	317.317	1.303 *	317.267	1.192	317.247	0.606	317.187	0.301 *	317.267	0.959
10	317.427	3.251	317.317	1.303 *	317.267	1.166	317.227	0.592	317.177	0.295 *	317.247	0.854
11	317.427	3.492	317.307	2.106	317.267	1.071	317.237	0.534	317.177	0.385	317.227	0.462
12	317.407	2.902	317.307	1.969	317.277	1.247	317.237	0.546	317.177	0.374	317.217	0.419
13	317.417	3.487 *	317.307	1.974	317.277	1.283 *	317.237	0.546 *	317.177	0.351	317.217	0.434
14	317.407	3.232	317.307	1.935	317.277	1.283 *	317.237	0.597	317.167	0.350	317.217	0.425
15	317.407	3.109	317.307	1.935 *	317.267	0.995	317.237	0.582	317.147	0.212	317.237	0.465 *
16	317.407	3.139	317.307	1.940	317.257	0.831	317.257	0.909	317.117	0.182	317.237	0.465
17	317.397	2.981	317.297	1.875 *	317.247	0.765	317.237	0.538	317.137	0.282 *	317.237	0.435
18	317.387	2.772	317.297	1.875	317.247	0.732	317.237	0.552	317.167	0.346	317.237	0.465
19	317.387	2.717	317.297	1.814	317.247	0.651	317.287	1.488	317.177	0.382	317.297	0.972
20	317.377	2.711 *	317.297	1.788	317.237	0.632	317.247	0.791 *	317.187	0.396 *	317.287	0.999
21	317.367	2.736	317.297	1.785	317.247	0.651 *	317.237	0.526	317.167	0.317	317.247	0.854 *
22	317.357	2.395	317.297	1.731	317.237	0.659	317.237	0.538	317.177	0.337	317.217	0.425 *
23	317.367	2.621	317.297	1.711	317.237	0.654	317.217	0.439	317.177	0.341	317.207	0.403
24	317.357	2.363 *	317.287	1.535 *	317.237	0.629	317.217	0.417	317.167	0.321 *	317.197	0.366
25	317.357	2.363 *	317.327	2.093	317.237	0.479	317.217	0.417 *	317.097	0.075	317.187	0.352
26	317.367	2.486	317.307	1.940 *	317.237	0.510	317.217	0.411	317.127	0.197	317.167	0.328
27	317.357	2.363 *	317.277	1.335	317.237	0.456	317.217	0.411 *	317.177	0.356	317.157	0.340
28	317.347	2.074	317.277	1.260	317.237	0.456 *	317.227	0.492	317.177	0.350	317.157	0.335
29	317.347	2.181	317.277	1.172	317.237	0.581	317.227	0.460	317.167	0.321	317.147	0.302 *
30	317.347	2.036	317.307	1.813			317.227	0.458	317.167	0.240	317.137	0.245
31	317.337	1.945	317.287	1.535 *			317.227	0.487			317.137	0.238
Daily M												
Ten-Dai	317.452	4.335	317.327	1.619	317.277	1.297	317.238	0.614	317.201	0.343	317.196	0.452
Ten-Dai	317.402	3.054	317.303	1.921	317.260	0.949	317.245	0.708	317.163	0.326	317.241	0.554
Ten-Da	317.355	2.324	317.294	1.628	317.238	0.564	317.224	0.460	317.160	0.286	317.178	0.381
Monthly												
Min.	317.337	1.945	317.277	1.172	317.237	0.456	317.217	0.411	317.097	0.075	317.137	0.189
Max.	317.477	5.470	317.347	2.106	317.287	1.535	317.287	1.488	317.217	0.404	317.297	0.999
Mean	317.401	3.208	317.308	1.72	317.259	0.949	317.235	0.59	317.175	0.318	317.204	0.46

Peak Computed Discharge = 1289 cumecs on 21/06/2015 **Corres. Water Level :322.437 m**

Lowest Computed Discharge = 0.282 cumecs on 17/04/2016 **Corres. Water Level :317.137 m**

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

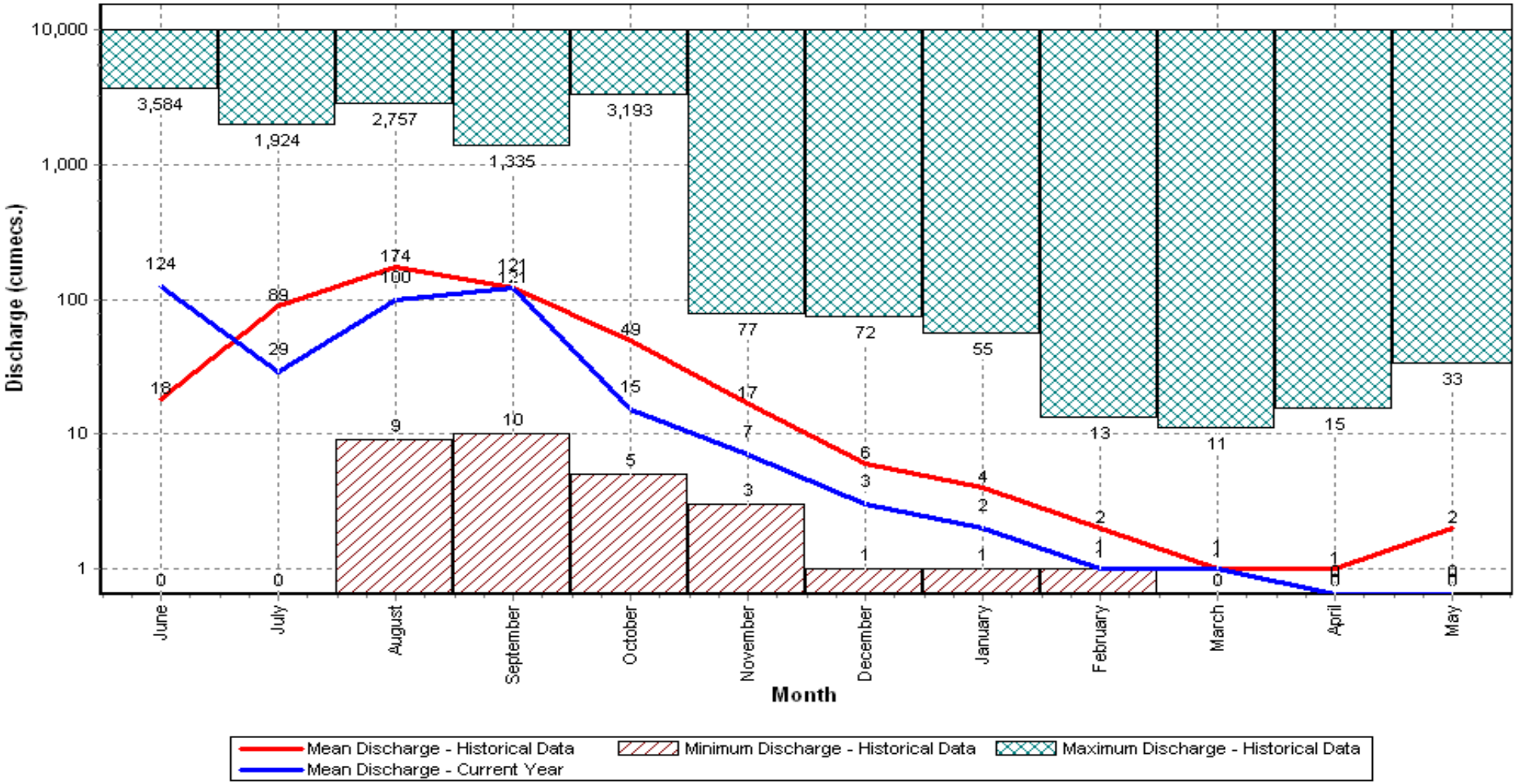
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016

Station Name : Tumnar (AGG60B1) | **Data considered : 1992-2016** | **Division : L Godavari Div., Hyderabad**

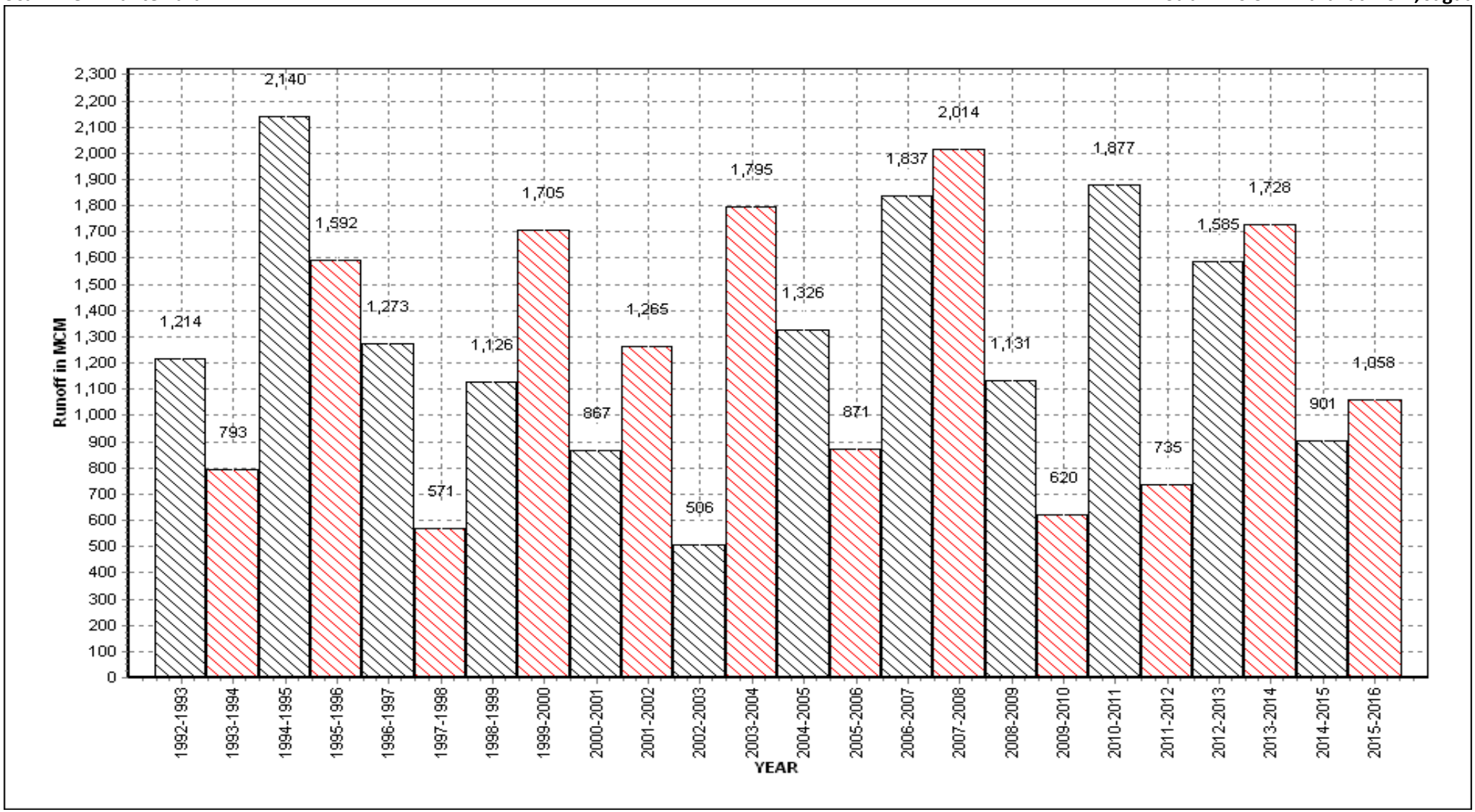
Local River : Dantewara | **Sub-Division : Indravathi S D, Jagdalpur**



Annual Runoff Values for the period: 1992 - 2016

Station Name : Tumnar (AGG60B1) **Division : L Godavari Div., Hyderabad**

Local River : Dantewara **Sub-Division : Indravathi S D, Jagdalpur**

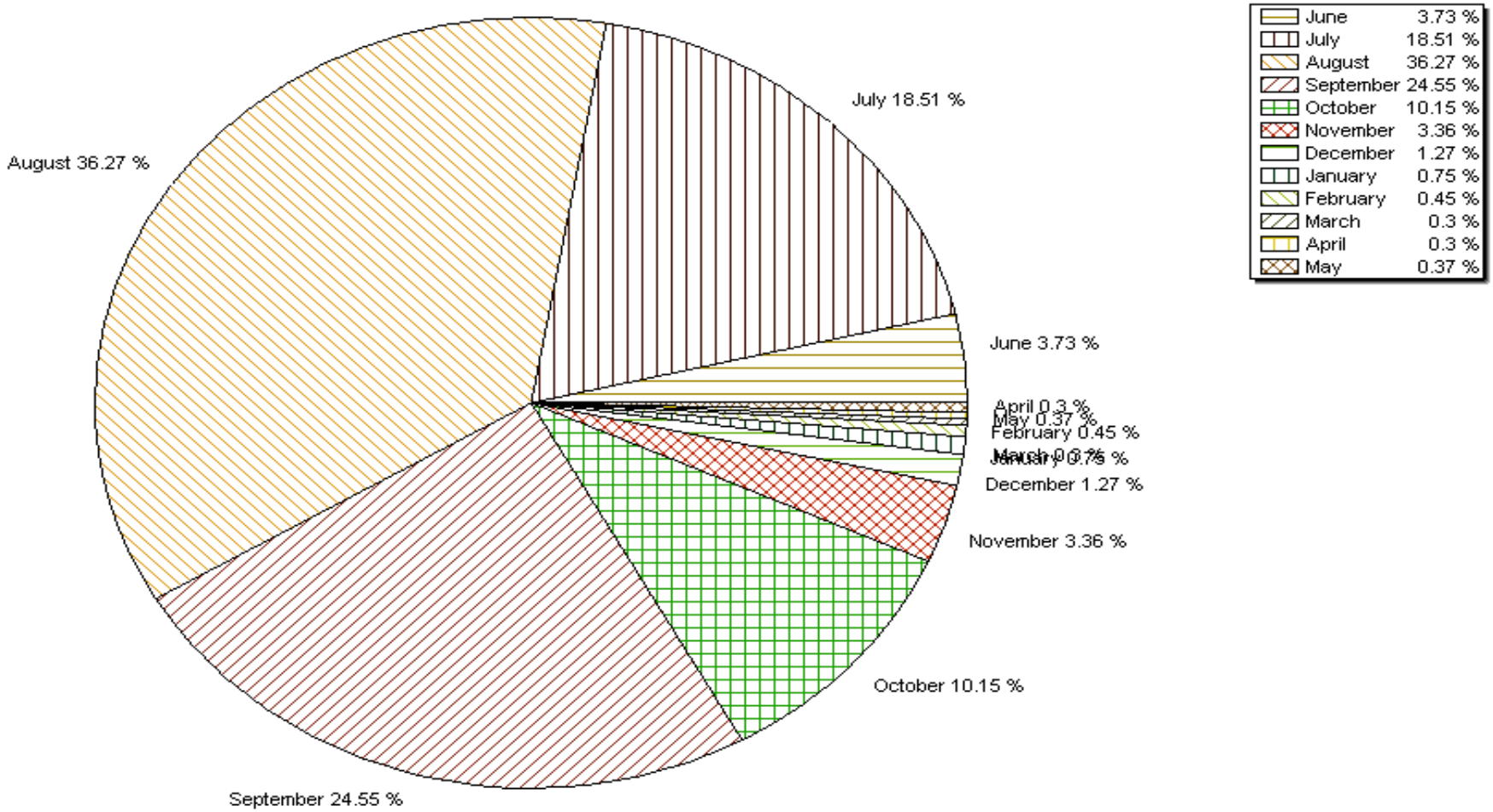


Note: Missing values have not been considered while arriving at Annual Runoff

Monthly Average Runoff based on period : 1992-2015

Station Name : Tumnar (AGG60B1) **Division : L Godavari Div., Hyderabad**

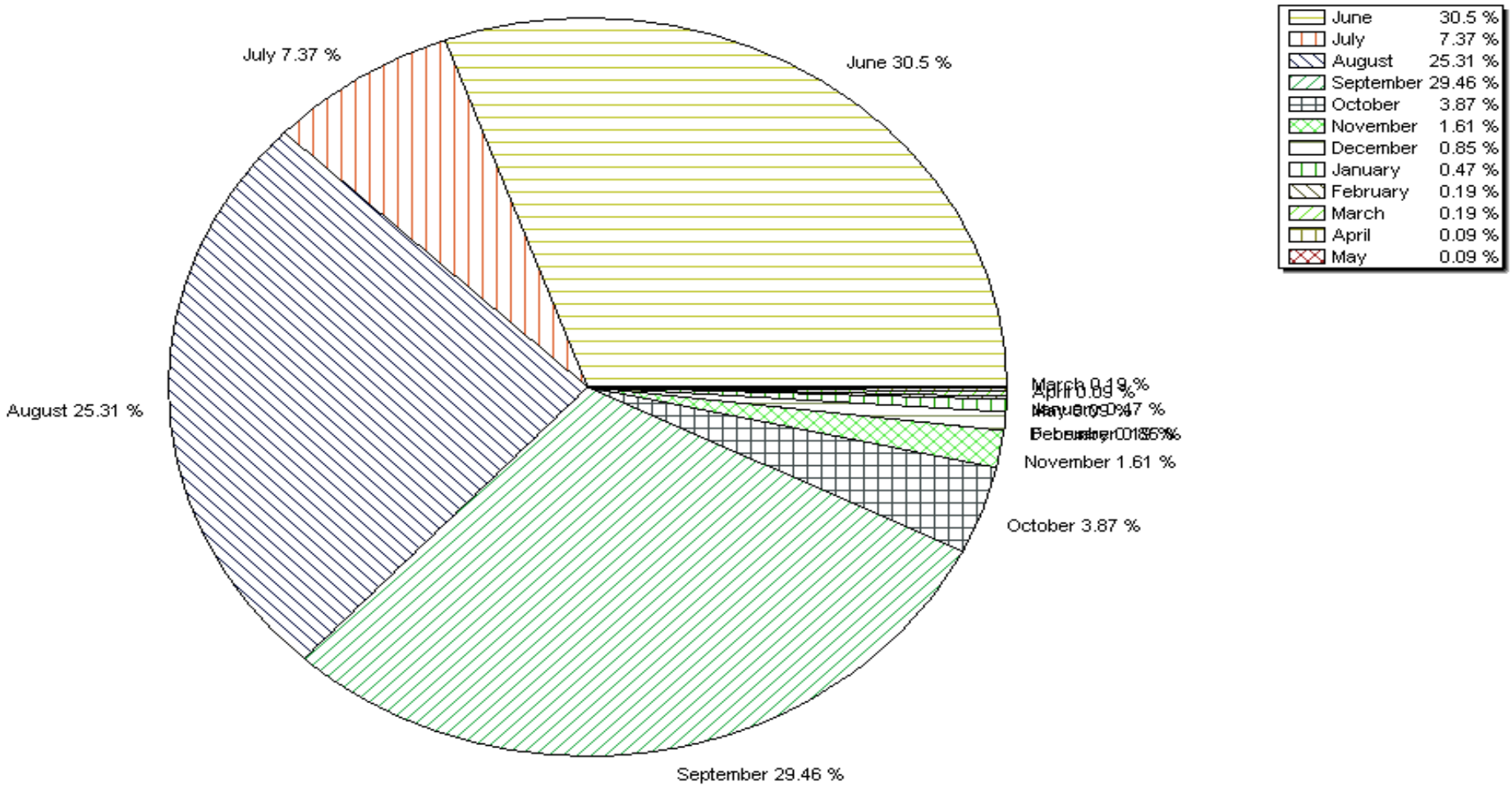
Local River : Dantewara **Sub-Division : Indravathi S D, Jagdalpur**



Monthly Runoff for the Year : 2015-2016

Station Name : Tumnar (AGG60B1) **Division : L Godavari Div., Hyderabad**

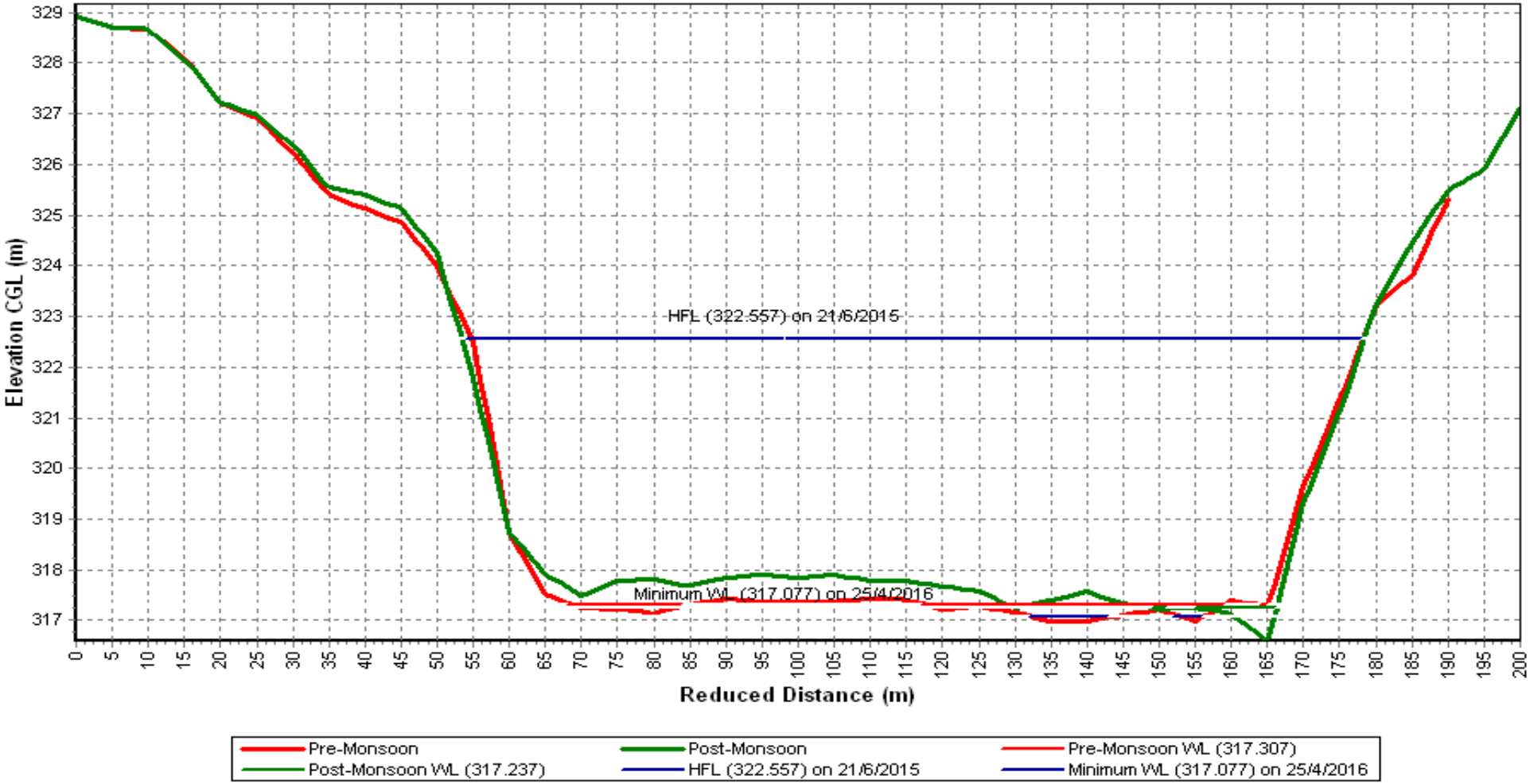
Local River : Dantewara **Sub-Division : Indravathi S D, Jagdalpur**



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

Station Name : Tumnar (AGG60B1) **Division : L Godavari Div., Hyderabad**

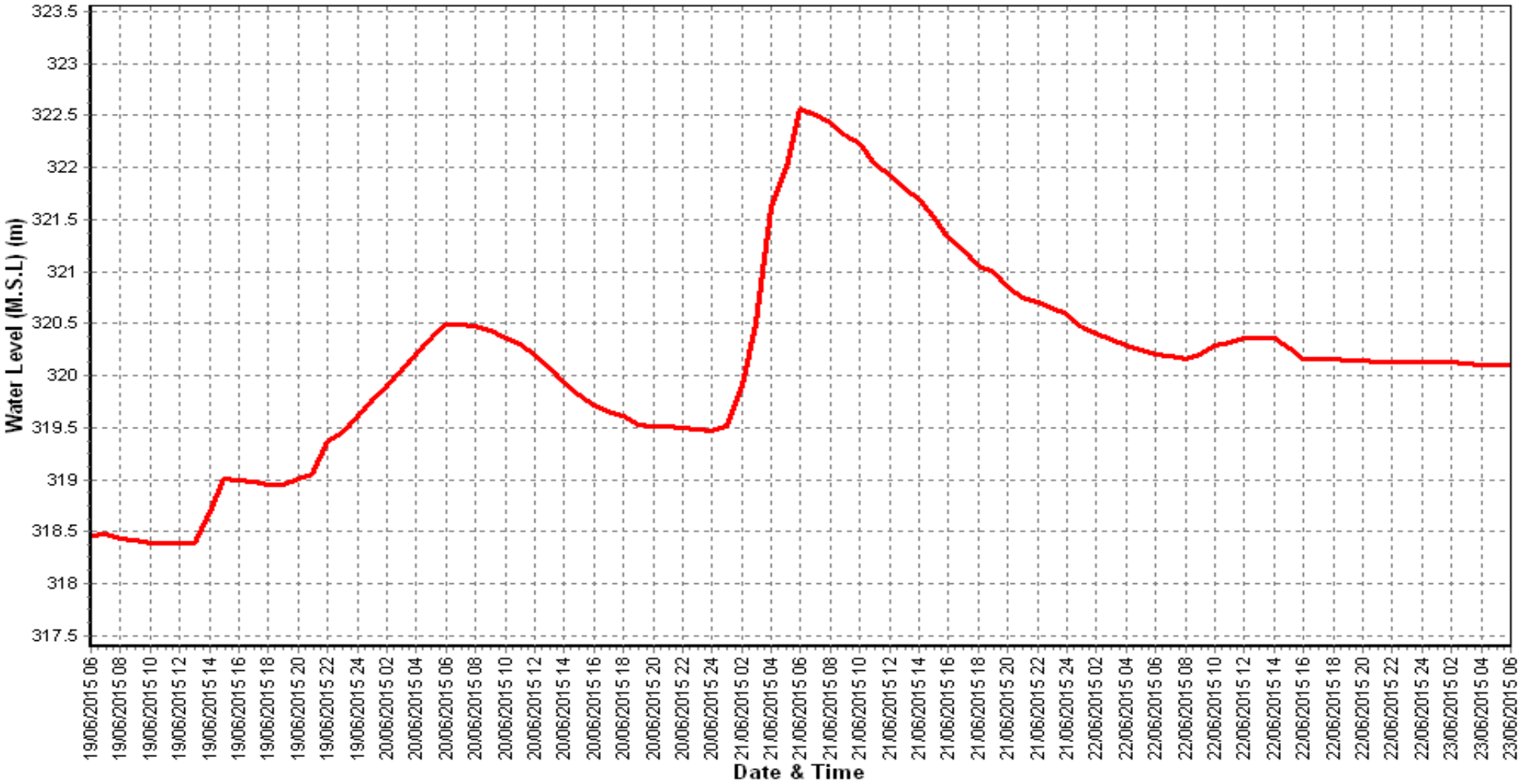
Local River : Dantewara **Sub-Division : Indravathi S D, Jagdalpur**



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

Station Name : Tumnar (AGG60B1) **Division : L Godavari Div., Hyderabad**

Local River : Dantewara **Sub-Division : Indravathi S D, Jagdalpur**

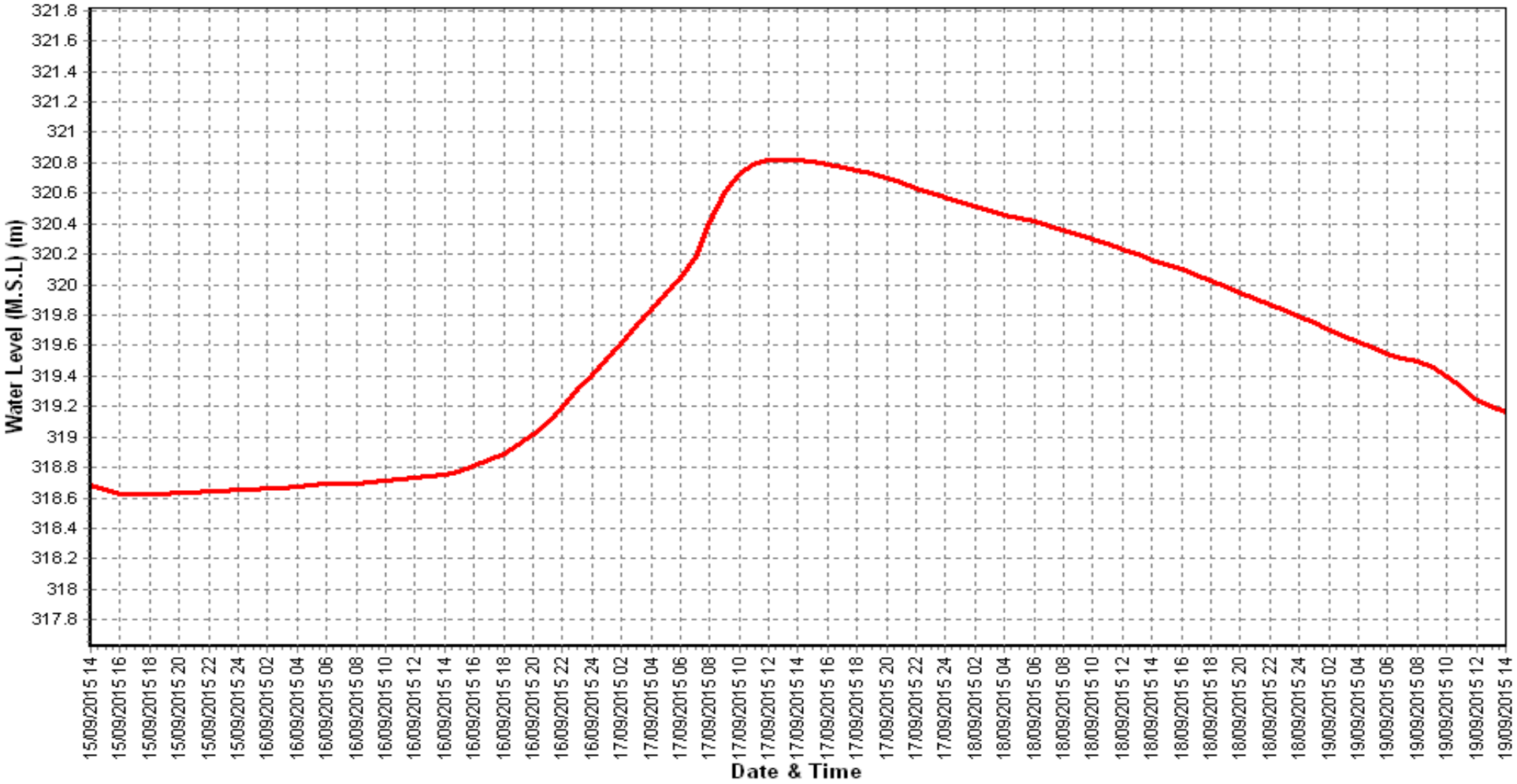


Time Span: 96 Hrs

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

Station Name : Tumnar (AGG60B1) **Division : L Godavari Div., Hyderabad**

Local River : Dantewara **Sub-Division : Indravathi S D, Jagdalpur**

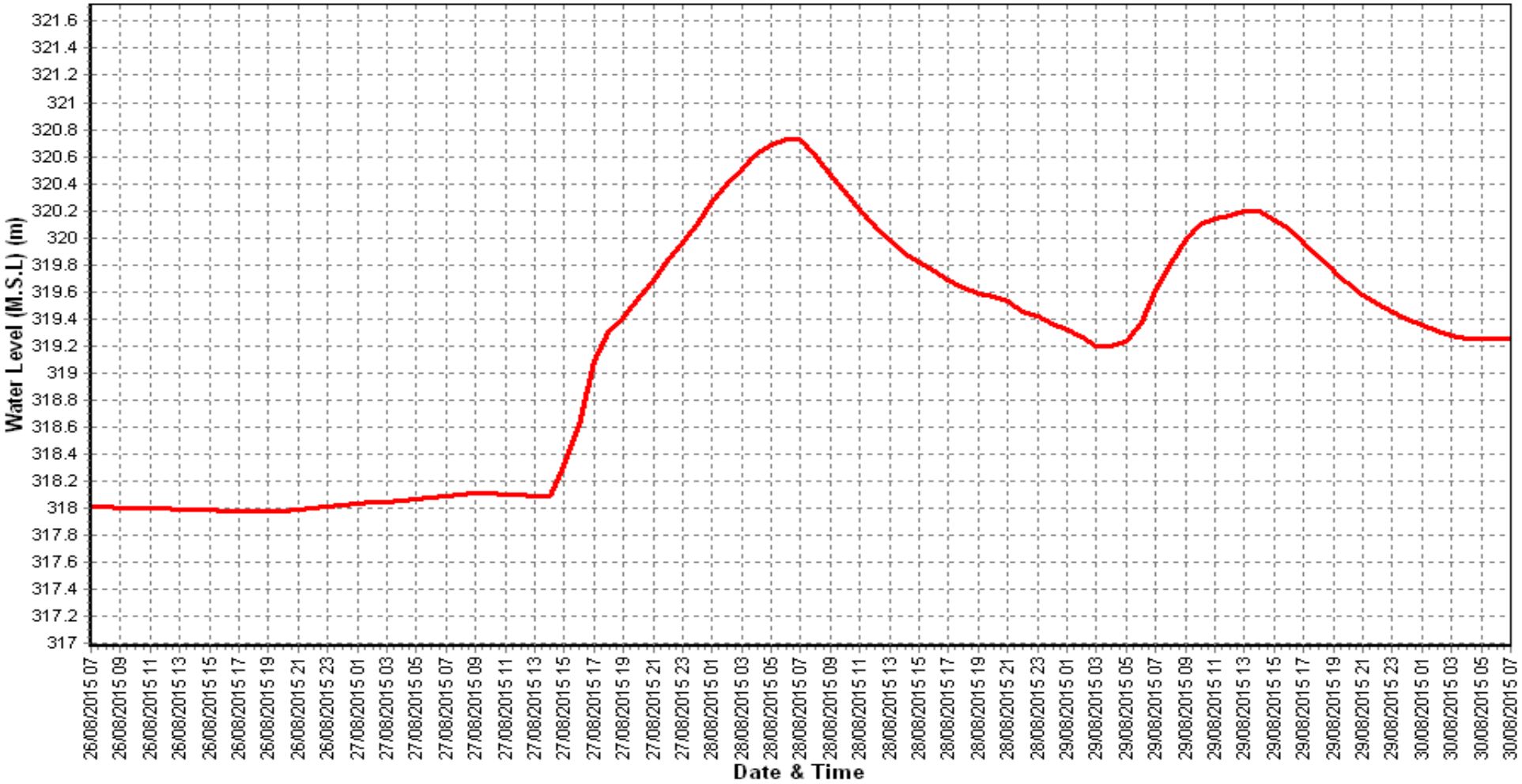


Time Span: 96 Hrs

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

Station Name : Tumnar (AGG60B1) **Division : L Godavari Div., Hyderabad**

Local River : Dantewara **Sub-Division : Indravathi S D, Jagdalpur**



Time Span: 96 Hrs

HISTORY SHEET

Water Year : 2015-2016

Site	**: Chindnar**		**Code**	**: AGG00N7**	
State	: Chhattisgarh		District	Dantewara	
Basin	: Godavari		Independent River	: Godavari	
Tributary	: Indravathi		Sub Tributary	: -	
Sub-Sub Tributary	: -		Local River	: Indravathi	
Division	: Lower Godavari Div., Hyderabad		Sub-Division	: Indravati SD, Jagdalpur	
Drainage Area	: 17270 Sq. Km.		Bank	: Left	
Latitude	: 19°05'00"		Longitude	: 81°18'00"	
Zero of Gauge (m)	: 325.002 (m.s.l) 327.150 (m.s.l)		06.06.1971 01.06.1978	- 31.05.1978	
	Opening Date		Closing Date		
Gauge	: 06.06.1971		**HFL During 2015-16**	**: 337.190**	
			Corres. Discharge	**: 7225.355 Cumes(Estimated)**	
Discharge	: 07.12.1971		**Date & Time of Occurance**	**: 17.09.2015 : 19:00 hrs.**	
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**
1972-1973	4621	334.557	06.07.1972	6.700	327.710	24.05.1973
1973-1974	4550	334.652	09.07.1973	9.470	327.717	12.05.1974
1974-1975	1394	331.467	18.06.1974	5.546	327.737	04.06.1974
1975-1976	5346	334.202	14.08.1975	9.758	327.687	13.05.1976
1976-1977	5138	334.792	21.07.1976	10.80	327.727	06.06.1976
1977-1978	4705	334.232	23.08.1977	13.46	327.777	29.05.1978
1978-1979	8167	337.690	17.08.1978	10.00	329.860	30.05.1979
1979-1980	4668	336.450	04.08.1979	7.100	329.795	31.05.1980
1980-1981	4821	336.465	20.09.1980	6.700	329.845	29.05.1981
1981-1982	4556	336.185	10.08.1981	6.800	329.780	13.05.1982
1982-1983	3494	335.625	14.08.1982	5.777	329.755	08.05.1983
1983-1984	3531	335.600	26.06.1983	4.648	329.685	27.05.1984
1984-1985	6330	337.390	02.08.1984	5.695	329.805	03.05.1985
1985-1986	3080	335.235	08.08.1985	7.900	329.775	23.04.1986
1986-1987	6915	337.620	15.08.1986	5.763	329.805	26.04.1987
1987-1988	1923	334.350	06.09.1987	5.000	329.720	11.04.1988
1988-1989	1848	333.720	23.09.1988	4.500	329.610	11.05.1989
1989-1990	2381	334.840	31.08.1989	4.468	329.710	01.05.1990
1990-1991	7464	337.870	23.08.1990	9.304	329.800	10.05.1991
1991-1992	6147	337.710	31.07.1991	6.810	329.765	28.05.1992
1992-1993	6291	337.390	29.07.1992	7.023	329.730	14.05.1993

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**
1993-1994	2614	335.260	15.07.1993	2.980	329.650	17.05.1994
1994-1995	7418	338.530	06.09.1994	3.972	329.810	28.04.1995
1995-1996	12223	339.160	24.07.1995	4.680	329.820	16.06.1995
1996-1997	2352	334.950	23.07.1996	1.195	329.870	08.06.1996
1997-1998	3070	335.360	23.08.1997	0.268	329.460	13.06.1997
1998-1999	1508	333.780	12.07.1998	1.563	329.460	10.06.1998
1999-2000	3003	335.250	09.08.1999	0.317	329.495	12.05.2000
2000-2001	3247	335.430	31.08.2000	2.102	329.540	12.04.2001
2001-2002	9820	339.050	21.08.2001	1.388	329.500	02.04.2002
2002-2003	5274	337.050	24.08.2002	0.000	329.600	05.02.2003
2003-2004	4311	336.250	26.07.2003	0.000	329.380	10.12.2003
2004-2005	5008	336.500	15.06.2004	0.012	329.480	30.06.2004
2005-2006	7127	337.375	14.09.2005	1.216	329.720	11.06.2005
2006-2007	13351	340.100	05.07.2006	0.711	329.660	29.05.2007
2007-2008	10073	339.050	08.08.2007	0.021	329.640	25.05.2008
2008-2009	4821	336.440	11.08.2008	0.015	329.640	02.06.2008
2009-2010	4059	335.600	27.08.2009	0.239	329.630	25.04.2010
2010-2011	11335	339.250	07.08.2010	3.216	329.790	10.06.2010
2011-2012	2899	335.150	02.09.2011	1.059	329.610	04.04.2012
2012-2013	4847	336.490	20.08.2012	0.643	329.570	19.04.2013
2013-2014	3995	335.790	15.06.2013	2.595	329.750	08.05.2014
2014-2015	9311	337.100	23.07.2014	3.051	329.750	14.06.2014

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

Stage-Discharge Data for the period 2015 - 2016

Station Name : Chindnar (AGG00N7) **Division : Lower Godavari Div., Hyderabad**

Local River : Indravathi **Sub-Division : Indravati SD, Jagdalpur**

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	329.890	7.576 #	331.135	210.2	330.835	107.8	332.865	998.9 #	331.373	224.4	330.390	45.21 *
2	329.880	6.418	331.190	197.0 *	330.750	97.96 *	333.500	1508 *	331.300	228.2 *	330.440	53.74
3	329.870	5.858	331.300	228.2 *	330.685	86.52	333.130	1196 *	331.248	220.2	330.430	53.06
4	329.840	4.767	331.170	191.6 *	330.610	85.46	332.740	912.9 *	331.190	197.0 *	330.400	51.51
5	329.840	5.173	331.180	194.3 *	330.585	66.55	332.310	651.1 *	331.240	220.9	330.380	48.46
6	329.890	5.645	331.030	156.3 *	330.510	59.94	331.980	484.6 *	331.188	202.4	330.360	46.43
7	330.150	22.48 *	330.890	125.1 *	330.565	67.11	331.850	376.1	331.095	172.5	330.340	44.22
8	330.100	17.92	330.760	99.77 *	330.640	86.63	331.770	309.2	331.008	151.1	330.330	43.38 *
9	330.080	17.92	330.650	80.90 *	331.280	222.3 *	331.830	418.2 #	330.940	119.9	330.310	41.38
10	330.020	15.20	330.570	68.62 #	331.050	151.1	331.810	361.8	330.890	117.7	330.300	42.33
11	330.010	15.28	330.565	82.79	331.675	307.8	331.760	321.5	330.850	117.0 *	330.250	35.53 *
12	330.030	16.96	330.590	71.58 *	331.490	272.2	331.575	318.4 #	330.810	113.6	330.230	31.53
13	331.050	161.1	331.170	191.6 #	332.910	1134	331.740	381.2 *	330.745	111.8	330.210	29.36
14	330.500	58.83 *	331.320	207.1	332.560	869.5	331.840	387.0	330.710	105.0	330.200	28.31 *
15	330.740	89.18	331.150	187.4	332.930	1045 *	332.000	453.0	330.685	100.1	330.200	28.31 *
16	331.345	241.8 #	331.155	152.1	332.300	645.7 *	333.120	1348	330.615	75.38 #	330.210	29.18
17	331.580	337.1	331.370	204.4	332.555	775.5	336.610	5983 *	330.588	71.20 #	330.200	28.31
18	332.130	609.3	331.360	246.4 *	332.320	661.6	336.920	6630 *	330.570	83.17 *	330.200	28.54
19	331.820	443.0	331.380	252.6 *	332.430	715.7	336.010	4841 *	330.540	70.17	330.190	26.67
20	332.555	904.7	331.160	188.9 #	332.270	565.5	334.620	2721 *	330.495	64.76	330.180	26.09
21	334.230	2251 *	331.495	290.3 #	331.840	361.3	335.525	4066	330.460	50.77	330.180	26.42
22	336.190	5169 *	331.635	342.7	331.850	378.7	335.085	3613	330.400	46.36 *	330.150	22.48 *
23	334.600	2226	331.975	568.3	331.790	401.5 *	333.940	1920	330.318	40.32	330.130	19.46
24	333.045	1137	332.215	691.2	331.690	312.0	332.900	1076	330.400	46.36 *	330.130	19.39
25	332.280	621.1	332.365	818.7	331.490	288.6 *	332.420	713.2 *	330.390	45.21 *	330.120	20.28 *
26	331.850	499.6	331.910	452.9 *	331.360	246.4 *	332.140	512.8	330.380	42.82	330.110	19.33
27	331.590	343.2	331.575	302.6	331.360	246.4 *	331.930	461.8 *	330.400	45.36	330.110	19.32
28	331.380	252.6 *	331.335	236.8	331.720	373.2 *	331.755	393.4	330.400	44.49	330.100	18.11
29	331.365	300.6	331.165	183.6	334.610	2708 *	331.605	285.2	330.390	42.42	330.090	18.20 *
30	331.240	230.2	331.050	139.2	333.680	1675 *	331.475	250.5	330.378	41.95	330.080	15.68
31			330.945	119.0	333.340	1368 *			330.395	43.15		
-Daily Mean												
Ten-Dail	329.956	10.90	330.987	155.2	330.751	103.1	332.379	721.7	331.147	185.4	330.368	46.97
Ten-Dail	331.176	287.7	331.122	178.5	332.344	699.3	333.619	2338	330.661	91.21	330.207	29.18
l Ten-Dai	332.777	1303	331.606	376.9	332.248	759.9	332.878	1329	330.392	44.47	330.120	19.87
Monthly												
Min.	329.840	4.767	330.565	68.62	330.510	59.94	331.475	250.5	330.318	40.32	330.080	15.68
Max.	336.190	5169	332.365	818.7	334.610	2708	336.920	6630	331.372	228.2	330.440	53.74
Mean	331.303	533.8	331.250	241.4	331.796	528.5	332.958	1463	330.722	105	330.232	32.01

Annual Runoff in MCM = 7707 Annual Runoff in mm = 446

Peak Observed Discharge = 4066 cumecs on 21/09/2015 Corres. Water Level :335.525 m

Lowest Observed Discharge = 0.784 cumecs on 13/04/2016 Corres. Water Level :329.63 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 : Chindnar (AGG00N7) **Division : Lower Godavari Div., Hyderabad**

Local River : Indravathi **Sub-Division : Indravati SD, Jagdalpur**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	330.070	15.43	329.940	9.526	329.830	4.807	329.770	3.459	329.720	1.513	329.780	3.306 *
2	330.060	10.22	329.970	10.64	329.830	4.384	329.800	3.632	329.700	1.309	329.740	1.767
3	330.060	13.31	329.970	10.64 *	329.820	4.048	329.830	4.218	329.660	1.477 *	329.700	1.536
4	330.080	13.77	329.940	10.58	329.810	4.109	329.820	4.379	329.650	1.142	329.680	1.171
5	330.060	12.70	329.940	10.51	329.820	4.067	329.890	5.065	329.630	1.264	329.840	7.745
6	330.030	14.56 *	329.920	9.174	329.810	3.689	329.890	5.065 *	329.630	1.187	329.920	6.306
7	330.020	11.67	329.910	8.895	329.800	3.154 *	329.860	4.577	329.620	0.828	329.860	4.933
8	330.030	13.96	329.910	9.950	329.810	3.193	329.830	3.826	329.610	0.808 *	329.930	6.876 *
9	330.040	13.46	329.910	9.950 *	329.800	3.154	329.800	3.063	329.640	0.854	329.950	7.776
10	330.020	11.46	329.910	9.950 *	329.800	2.973	329.790	3.608	329.660	1.477 *	329.980	9.809
11	330.060	14.12	329.900	8.840	329.800	3.227	329.790	6.129	329.650	1.014	330.070	17.45
12	330.020	14.09 *	329.900	8.845	329.790	2.981	329.900	6.244	329.640	1.084	329.950	7.868
13	329.990	12.74 *	329.900	9.270	329.780	2.869	329.890	5.440 *	329.630	0.784	329.870	5.601
14	329.990	9.503	329.960	10.99	329.760	2.608 *	329.860	4.850	329.620	0.828 *	329.820	5.447
15	329.990	10.04	329.920	9.995 *	329.750	2.482	329.870	4.951	329.640	1.316	329.790	3.416 *
16	330.000	11.63	329.880	8.987	329.760	2.608	329.950	7.551	329.660	1.477	330.070	13.89
17	330.050	13.59	329.850	7.606 *	329.760	2.818	329.900	5.843	329.710	1.578 *	330.120	18.82
18	330.060	14.02	329.830	6.547	329.760	2.546	329.860	4.588	329.730	1.640	330.130	18.77
19	330.050	13.55	329.820	6.437	329.750	2.560	329.840	4.224	329.730	1.624	330.040	13.91
20	330.050	13.55 *	329.820	6.353	329.750	2.638	329.800	3.892 *	329.790	3.416 *	330.020	11.52
21	330.030	11.45	329.850	7.606	329.740	2.313 *	329.790	3.416	329.890	5.663	330.000	10.52 *
22	330.020	11.08	329.880	8.623	329.740	2.313	329.830	3.993	329.870	4.910	329.990	10.09 *
23	330.040	12.44	329.880	8.711	329.730	2.242	329.820	3.734	329.860	4.851	329.980	9.918
24	330.040	12.44 *	329.880	8.711 *	329.720	2.020	329.800	3.017	329.870	5.556 *	329.970	9.625
25	330.030	11.44 *	329.870	8.129	329.710	2.078	329.770	2.765 *	329.870	5.556	330.080	15.62
26	330.020	10.83	329.860	7.344 *	329.690	1.153	329.760	2.521	329.870	5.687	330.000	11.34
27	330.030	11.44 *	329.860	7.344	329.680	1.393	329.750	2.659 *	329.870	5.710	329.950	9.588
28	330.020	11.29	329.860	7.576	329.670	1.269 *	329.770	2.765	329.880	6.080	329.900	7.912
29	329.960	10.01	329.870	7.803	329.730	2.718	329.750	2.659	329.870	5.556	329.900	7.912 *
30	329.960	10.22	329.860	6.923			329.740	2.526	329.820	4.323	329.840	4.988
31	329.950	9.898	329.850	5.632 *			329.740	2.410			329.810	5.341
-Daily M												
Ten-Dail	330.047	13.05	329.932	9.982	329.813	3.758	329.828	4.089	329.652	1.186	329.838	5.123
Ten-Dail	330.026	12.68	329.878	8.388	329.766	2.733	329.866	5.371	329.680	1.476	329.988	11.67
l Ten-Dai	330.009	11.14	329.865	7.673	329.712	1.944	329.775	2.951	329.867	5.389	329.947	9.351
Monthly												
Min.	329.950	9.503	329.820	5.632	329.670	1.153	329.740	2.410	329.610	0.784	329.680	1.171
Max.	330.080	15.43	329.970	10.99	329.830	4.807	329.950	7.551	329.890	6.080	330.130	18.82
Mean	330.027	12.25	329.891	8.648	329.766	2.842	329.821	4.099	329.733	2.684	329.925	8.735

Peak Computed Discharge = 6630 cumecs on 18/09/2015 **Corres. Water Level :336.92 m**

Lowest Computed Discharge = 0.808 cumecs on 08/04/2016 **Corres. Water Level :329.61 m**

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

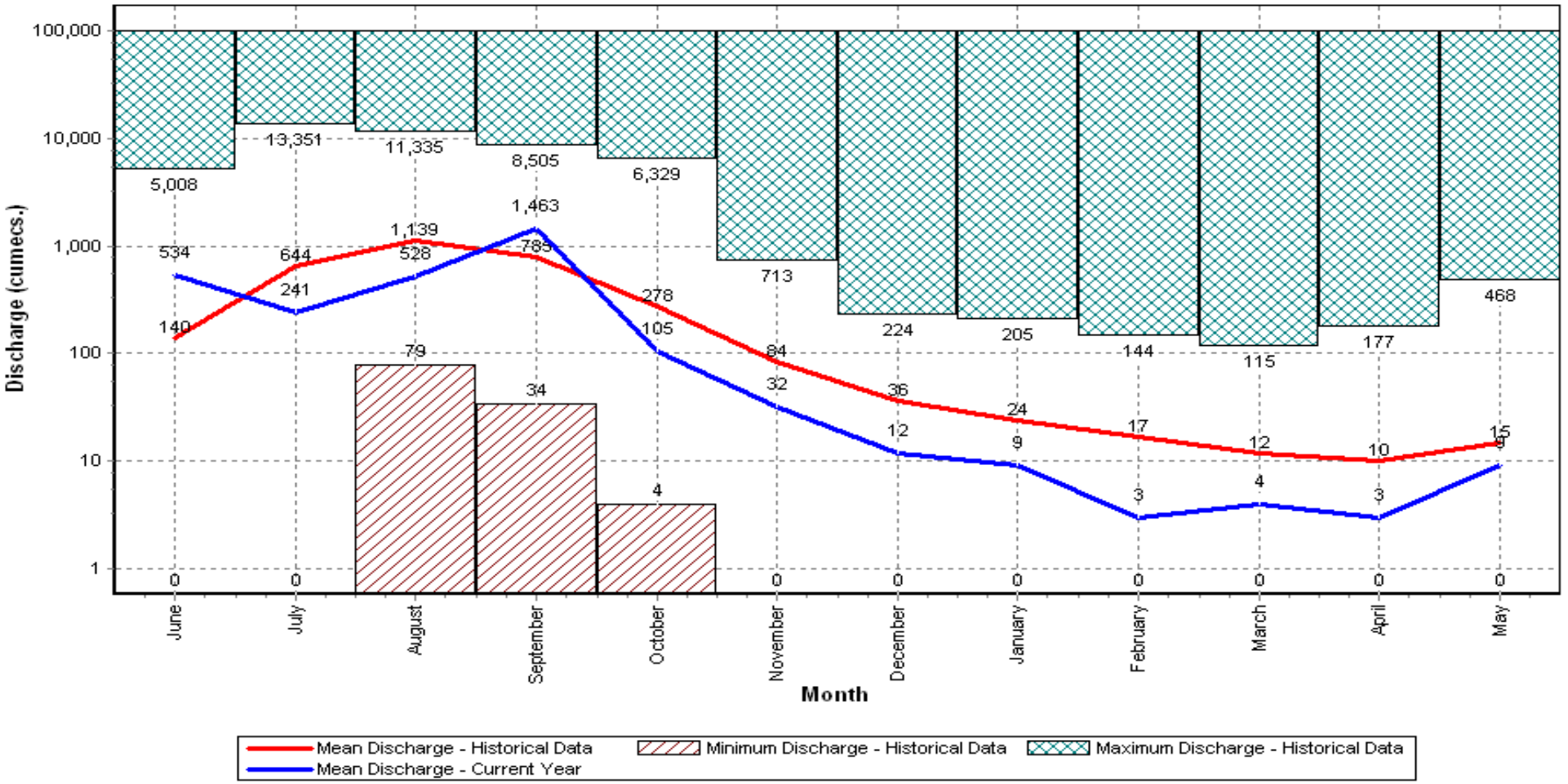
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016

Station Name : Chindnar (AGG00N7) | **Data considered : 1972-2016** | **Division : Lower Godavari Div., Hyderabad**

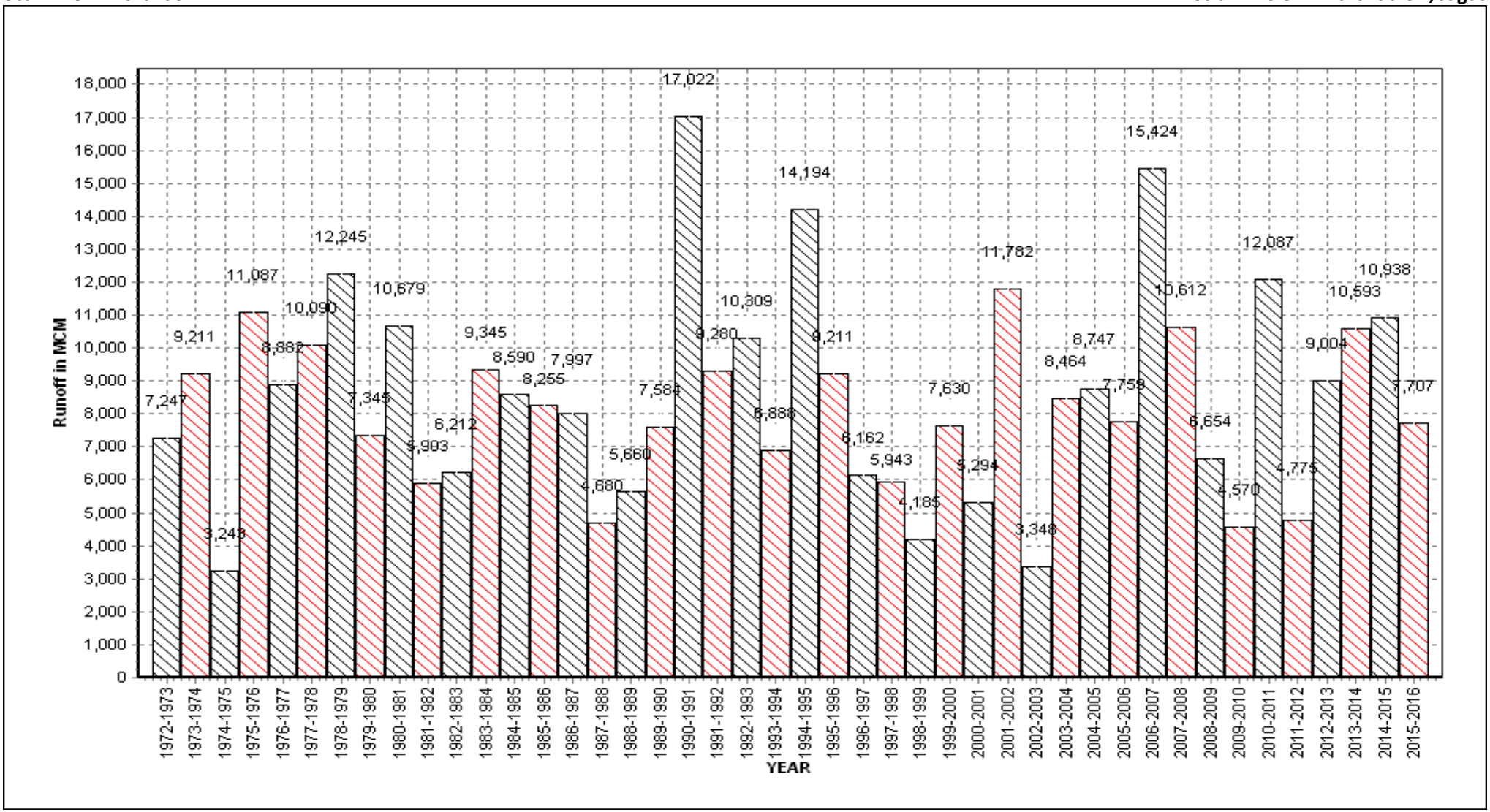
Local River : Indravathi | **Sub-Division : Indravati SD, Jagdalpur**



Annual Runoff Values for the period: 1972 - 2016

Station Name : Chindnar (AGG00N7) **Division : Lower Godavari Div., Hyderabad**

Local River : Indravathi **Sub-Division : Indravati SD, Jagdalpur**



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

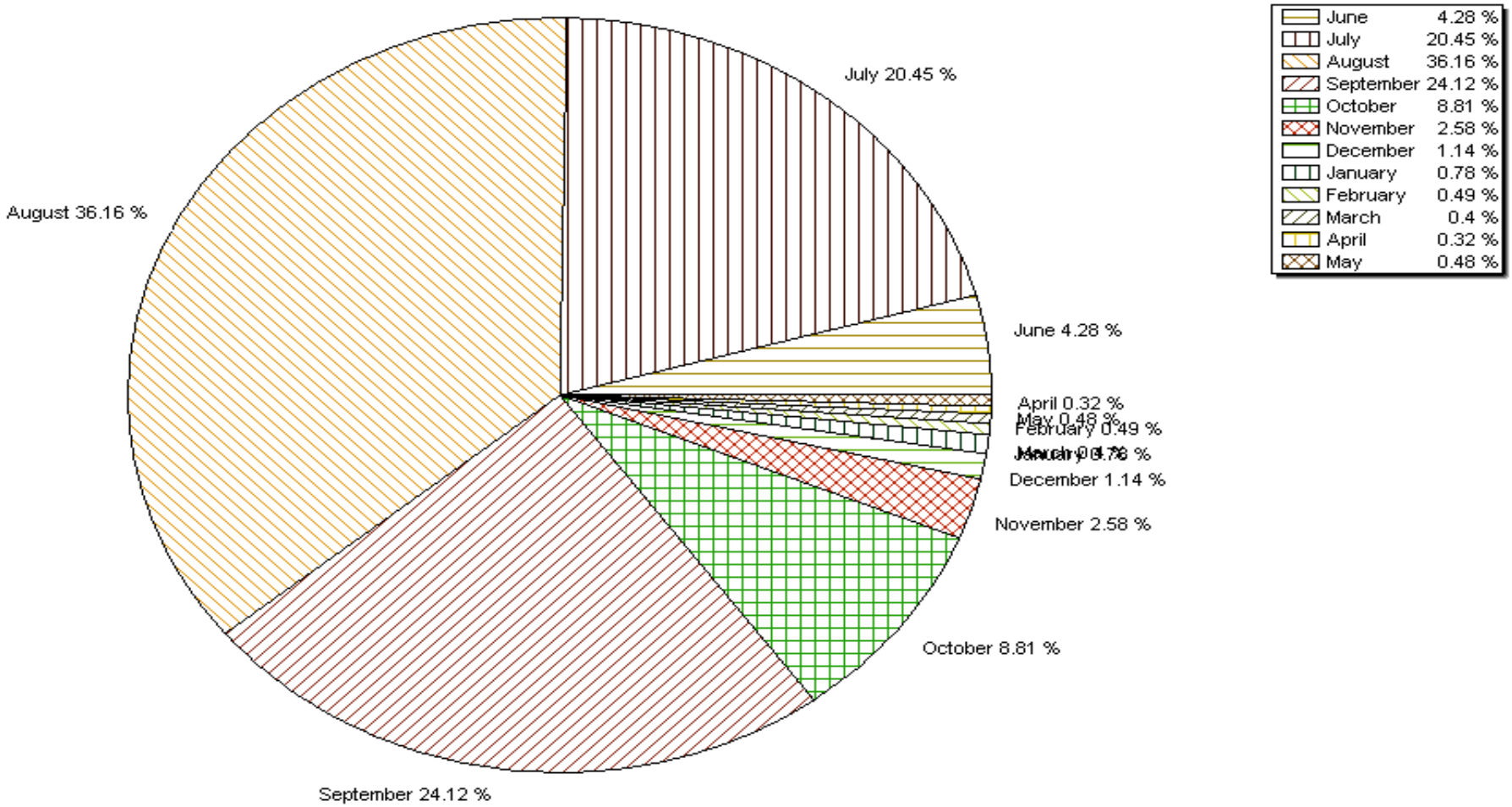
Monthly Average Runoff based on period : 1972-2015

Station Name : Chindnar (AGG00N7)

Division : Lower Godavari Div., Hyderabad

Local River : Indravathi

Sub-Division : Indravati SD, Jagdalpur



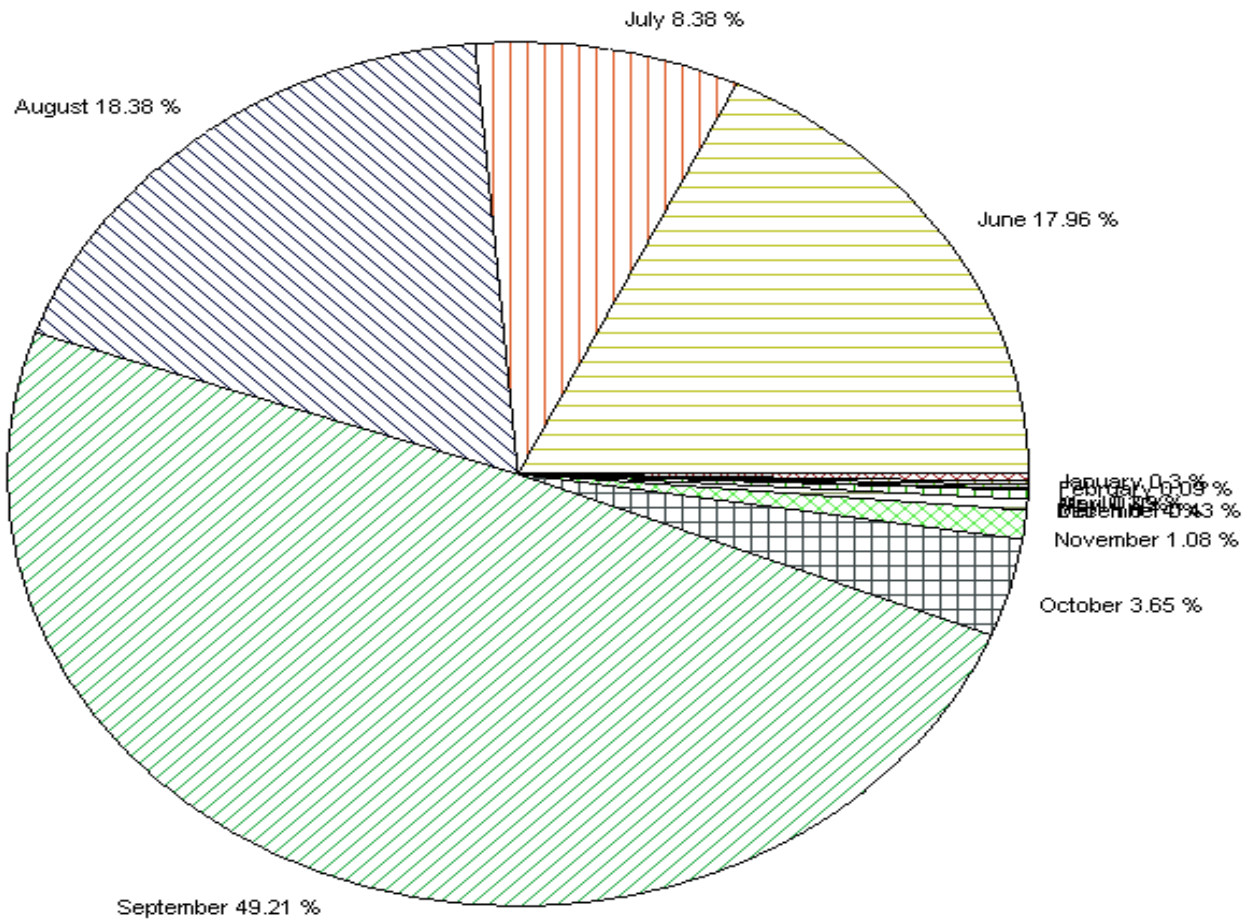
Monthly Runoff for the Year : 2015-2016

Station Name : Chindnar (AGG00N7)

Division : Lower Godavari Div., Hyderabad

Local River : Indravathi

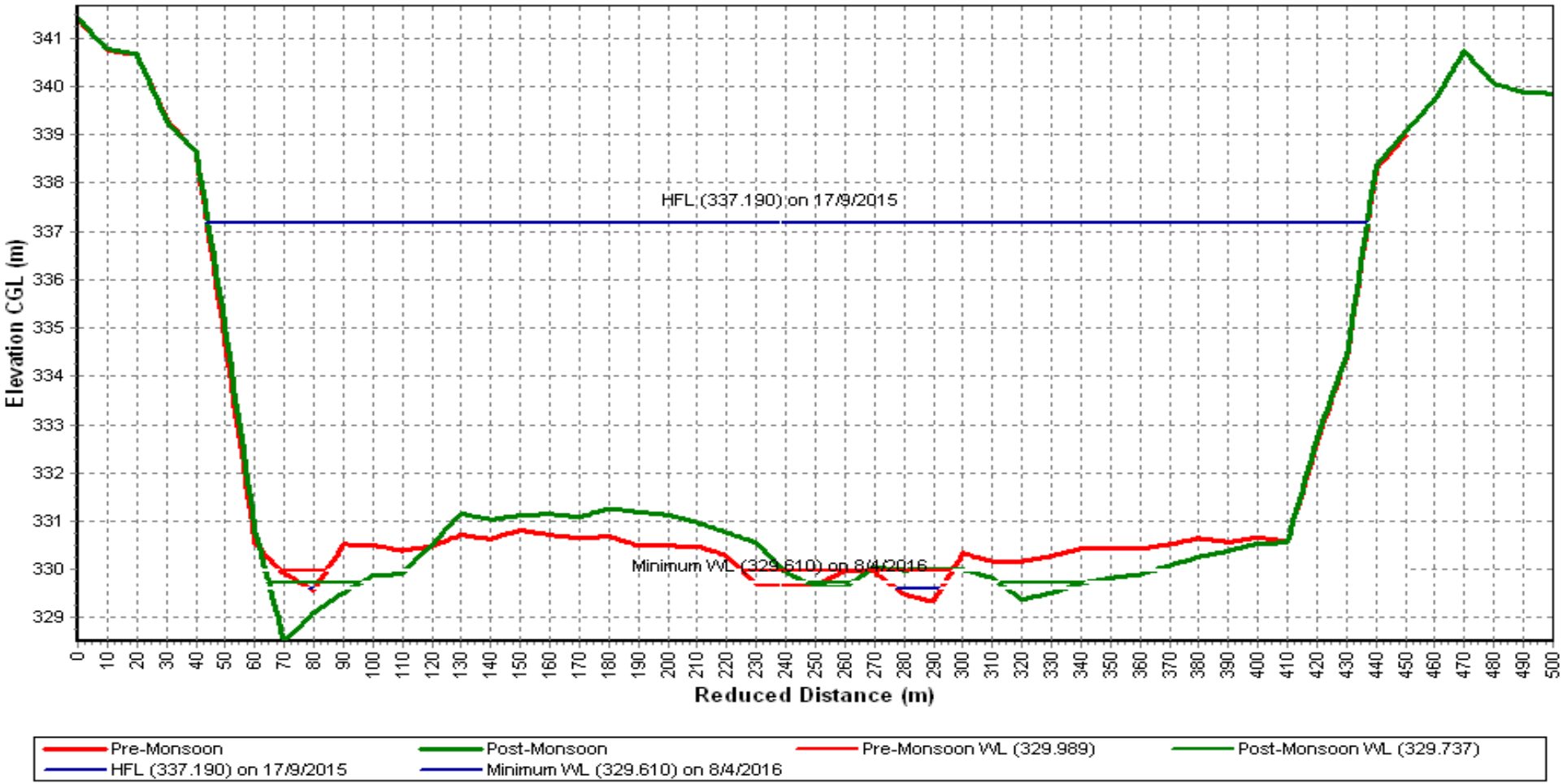
Sub-Division : Indravati SD, Jagdalpur



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

Station Name : Chindnar (AGG00N7) **Division : Lower Godavari Div., Hyderabad**

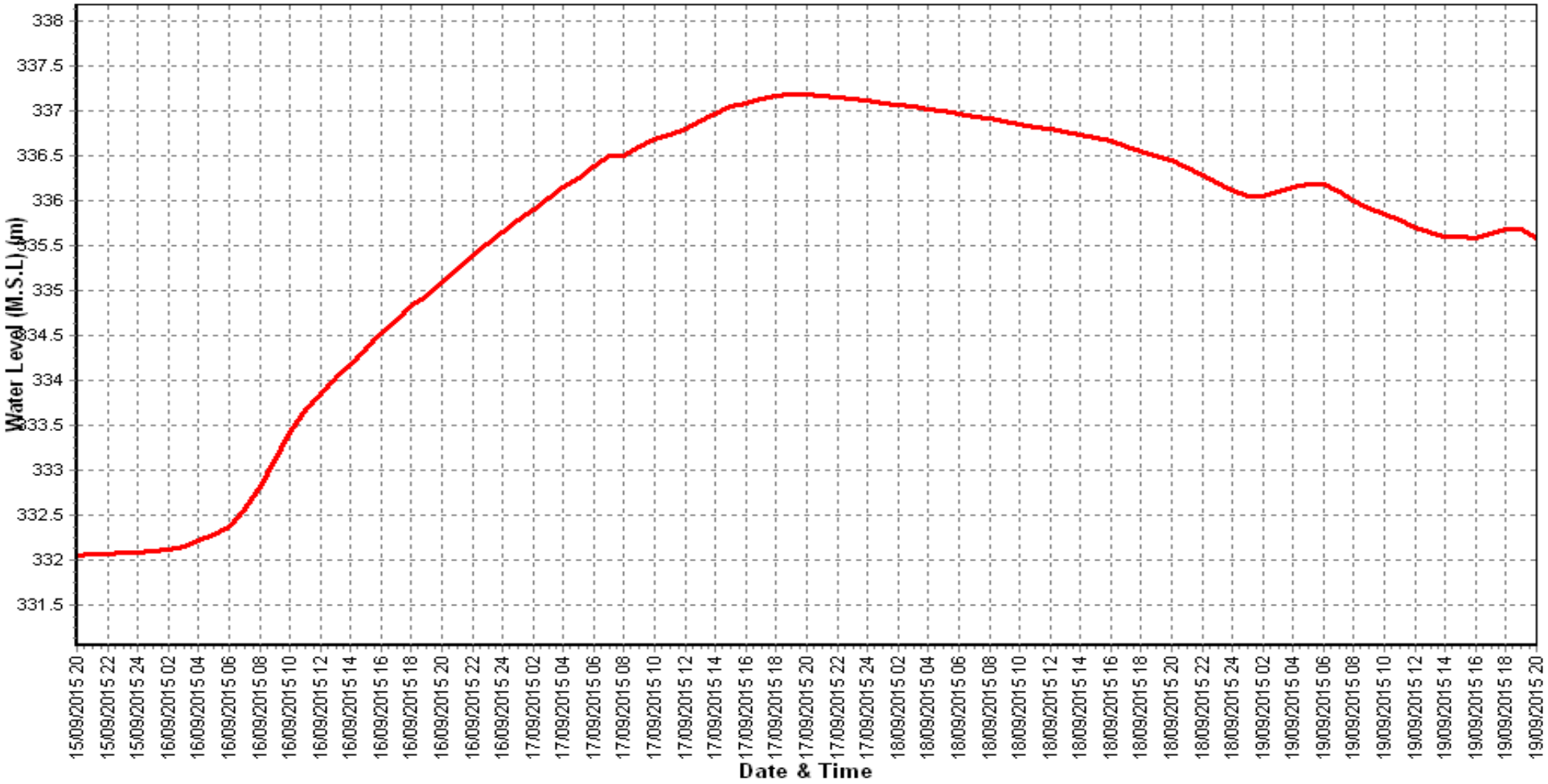
Local River : Indravathi **Sub-Division : Indravati SD, Jagdalpur**



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

Station Name : Chindnar (AGG00N7) **Division : Lower Godavari Div., Hyderabad**

Local River : Indravathi **Sub-Division : Indravati SD, Jagdalpur**

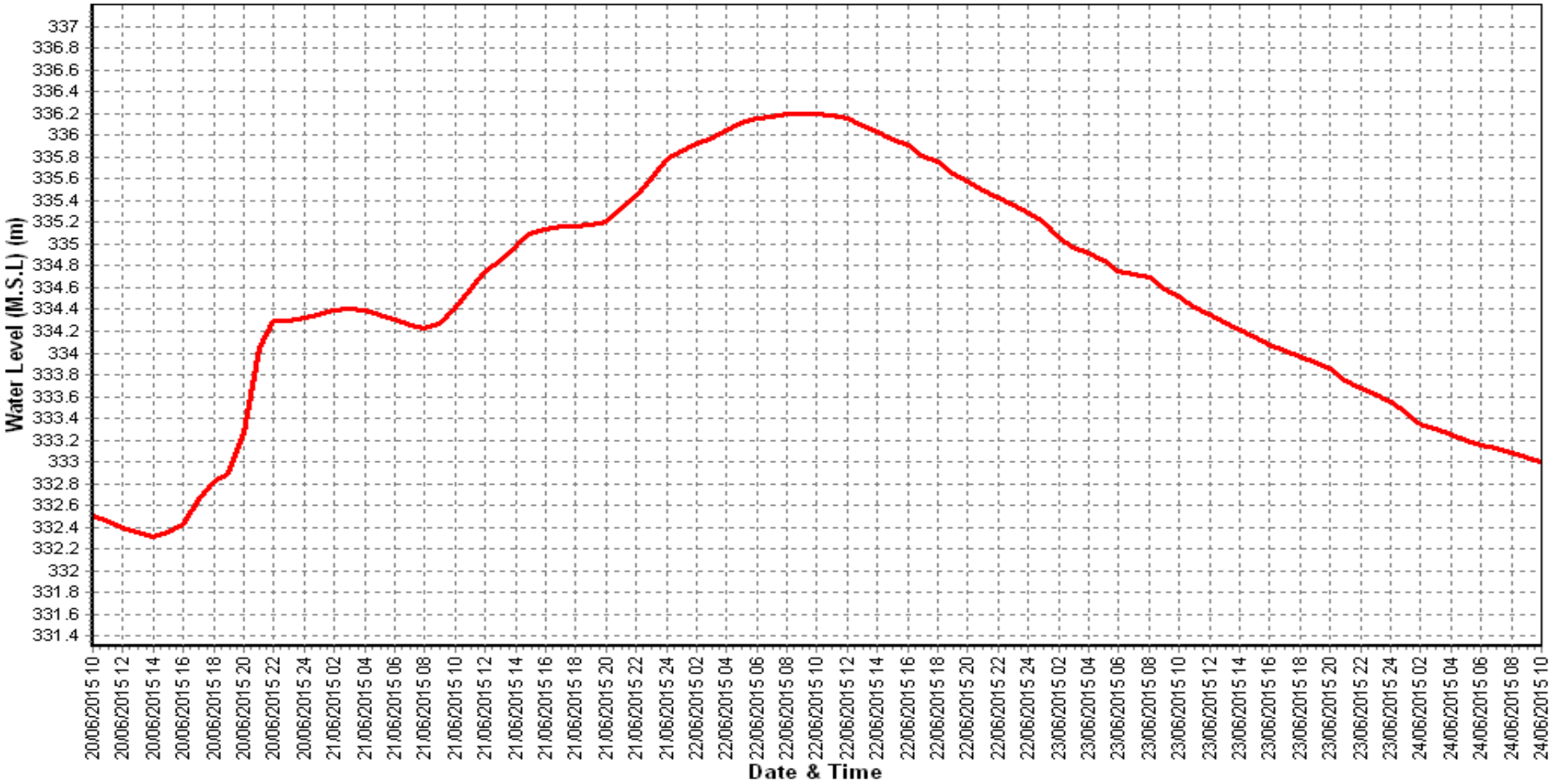


Time Span: 96 Hrs

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

Station Name : Chindnar (AGG00N7) **Division : Lower Godavari Div., Hyderabad**

Local River : Indravathi **Sub-Division : Indravati SD, Jagdalpur**

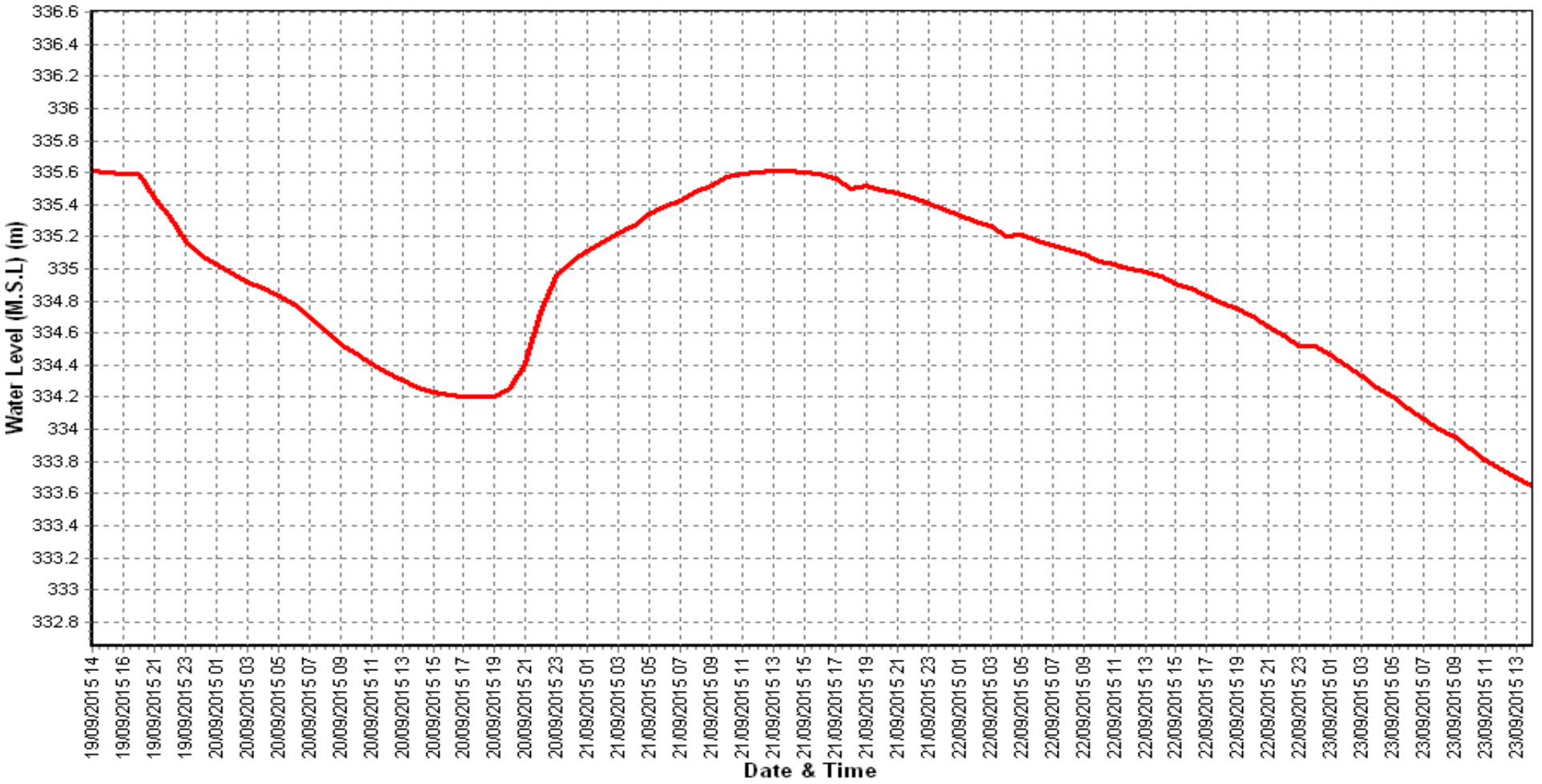


Time Span: 96 Hrs

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

Station Name : Chindnar (AGG00N7) **Division : Lower Godavari Div., Hyderabad**

Local River : Indravathi **Sub-Division : Indravati SD, Jagdalpur**



Time Span: 96 Hrs

HISTORY SHEET

Water Year : 2015-2016

Site	**: Cherribeda**		**Code**	**: Cherribeda**	
State	: Chhattisgarh		District	Bastar	
Basin	: Godavari		Independent River	: Godavari	
Tributary	: Indravathi		Sub Tributary	: Bardha	
Sub-Sub Tributary	: --'		Local River	: Bardha	
Division	: L Godavari Div., Hyderabad		Sub-Division	: Indravathi S D, Jagdalpur	
Drainage Area	: 890 Sq. Km.		Bank	: Left	
Latitude	: 19°38'23"		Longitude	: 81°29'07"	
Zero of Gauge (m)	: 563.700 (m.s.l) 564.400 (m.s.l)		21.03.1996 08.07.1996	07.07.1997	
	Opening Date		Closing Date		
Gauge	: 21.03.1996		**HFL During 2015-16**	**: 570.360**	
			Corres. Discharge	**: 2298.462 Cumes(Estimated)**	
Discharge	: 13.11.1996		**Date & Time of**	**: 28.08.2015**	
			Occurance	**: 16:00 hrs.**	
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**
1996-1997	185.6	568.800	26.07.1996	0.000	565.070	20.05.1997
1997-1998	432.5	570.150	22.08.1997	0.000	565.370	25.05.1998
1998-1999	76.57	567.550	17.08.1998	0.000	565.300	31.03.1999
1999-2000	252.4	569.050	31.08.1999	0.000		01.06.1999
2000-2001	179.3	568.370	20.07.2000	0.000	565.220	10.04.2001
2001-2002	963.6	572.600	20.08.2001	0.000		01.05.2002
2002-2003	312.4	569.460	08.09.2002	0.000		17.04.2003
2003-2004	1380	571.900	25.07.2003	0.000		15.06.2003
2004-2005	987.4	570.690	15.06.2004	0.082	565.530	24.05.2005
2005-2006	579.8	569.900	13.09.2005	0.000		17.06.2005
2006-2007	2485	573.900	04.07.2006	0.080	565.340	31.05.2007
2007-2008	1816	572.890	07.08.2007	0.000	565.250	15.05.2008
2008-2009	377.6	569.000	11.08.2008	0.000		12.05.2009
2009-2010	434.0	569.000	15.07.2009	0.000		20.04.2010
2010-2011	1662	572.700	06.09.2010	0.000	565.420	19.04.2011
2011-2012	237.7	568.260	01.09.2011	0.000	565.240	23.04.2012
2012-2013	988.2	571.200	19.08.2012	0.000	565.160	29.04.2013
2013-2014	728.6	570.200	07.08.2013	0.000	565.270	01.05.2014
2014-2015	4384	571.650	22.07.2014	0.000	565.430	31.03.2015

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

Stage-Discharge Data for the period 2015 - 2016

Station Name : Cherribeda (Cherribeda) **Division : L Godavari Div., Hyderabad**

Local River : Bardha **Sub-Division : Indravathi S D, Jagdalpur**

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	565.350	0.000	566.180	10.57	565.880	8.563	567.500	207.7 *	566.370	14.61 *	566.090	5.354 *
2	565.350	0.000	566.340	21.73 *	565.860	7.871 *	567.260	147.8 *	566.350	13.81 *	566.080	5.027
3	565.330	0.000	566.530	36.48 *	565.850	6.697 *	566.600	43.20 *	566.300	11.90 *	566.070	4.706
4	565.320	0.000	566.420	27.35 *	565.840	6.181	566.490	32.97 *	566.310	12.27 *	566.060	4.236
5	565.500	0.000	566.180	12.84 *	566.050	11.47	566.410	26.60 *	566.330	13.03 *	566.050	4.386 *
6	565.550	0.000	566.140	11.06 *	566.060	12.12	566.360	23.06 *	566.290	11.53 *	566.050	5.021
7	565.540	0.000	566.090	5.377	566.050	11.63	566.290	18.63 *	566.260	10.46 #	566.040	3.920
8	565.530	0.000	566.070	5.756	566.180	17.84	566.280	18.04 #	566.230	9.447 #	566.040	4.159 *
9	565.500	0.000	566.310	19.83 *	566.280	18.04 *	566.250	16.36 #	566.200	8.478 #	566.030	3.743
10	565.490	0.000	566.050	5.530	566.070	15.35 *	566.280	18.04 #	566.190	8.167 #	566.020	3.962
11	565.480	0.000	566.700	54.10 *	566.020	12.99	566.230	15.30 *	566.180	7.860 *	566.020	3.721 *
12	565.750	0.000	566.670	50.67 *	566.260	16.91 *	566.320	20.45 *	566.170	7.560 *	566.020	3.036
13	565.960	0.000	566.310	19.83 *	567.870	327.2 *	566.390	25.14 *	566.150	6.447	566.010	3.311
14	565.800	0.000	566.220	14.78 *	566.730	57.68 *	566.400	25.87 *	566.160	7.716	566.010	3.166
15	566.300	19.22 *	566.200	13.79 *	566.440	28.88 *	566.360	23.06 *	566.140	6.883	566.000	3.306 *
16	566.125	7.734	566.190	13.53	566.350	22.39 *	566.590	42.20 *	566.140	6.835	566.000	3.306 *
17	566.040	6.452	566.170	11.86	567.280	152.3 *	569.910	1762 *	566.140	6.132	566.000	3.125
18	566.000	6.017	566.070	8.352 *	566.870	76.40 *	568.290	507.8 *	566.130	6.412 *	565.990	3.067
19	566.690	52.94 *	565.980	5.550 *	566.410	26.60 *	567.270	150.1 *	566.120	6.139 *	565.990	3.098
20	566.180	12.84 *	566.450	29.67 *	566.370	23.74 *	567.750	284.6 *	566.100	6.011	565.990	2.980
21	567.610	239.6 *	566.370	23.74 *	566.290	18.63 *	567.920	346.1 *	566.100	6.094	565.990	2.918
22	569.100	1013 *	566.250	16.36 *	566.290	18.63 *	567.270	150.1 *	566.090	5.354 *	565.990	3.107 *
23	567.460	196.8 *	566.320	20.45 *	566.250	16.36 *	567.030	102.1 *	566.090	5.011	565.980	2.914 *
24	566.630	46.31 *	567.540	219.0 *	566.350	22.39 *	566.810	67.97 *	566.090	5.354 *	565.980	3.299
25	566.530	36.48 *	566.650	48.46 *	566.215	12.18	566.700	54.10 *	566.080	5.104 *	565.980	2.914 *
26	566.466	30.96 *	566.300	19.22 *	566.090	12.43	566.580	41.21 *	566.070	4.859 *	565.970	3.165
27	566.340	21.73 *	566.200	13.79 *	566.350	22.39 *	566.500	33.82 *	566.060	5.592	565.960	2.662
28	566.280	18.04 *	566.110	14.91	569.110	1021 *	566.440	28.88 *	566.050	4.395	565.960	2.410
29	566.210	14.28 *	566.025	11.40	569.040	968.1 *	566.390	25.14 *	566.050	4.334	565.960	2.545 *
30	566.170	9.476	565.980	9.570	567.120	118.7 *	566.370	23.74 *	566.040	4.234	565.960	2.545 *
31			565.890	8.236	567.320	161.6 *			566.030	4.174		
Daily Mean												
Ten-Da	565.446	0.000	566.231	15.65	566.012	11.58	566.572	55.24	566.283	11.37	566.053	4.451
Ten-Da	566.033	10.52	566.296	22.21	566.660	74.51	567.151	285.7	566.143	6.799	566.003	3.211
Ten-Da	566.880	162.7	566.330	36.83	566.948	217.5	566.801	87.31	566.068	4.955	565.973	2.848
Monthly												
Min.	565.320	0.000	565.890	5.377	565.840	6.181	566.230	15.30	566.030	4.174	565.960	2.410
Max.	569.100	1013	567.540	219.0	569.110	1021	569.910	1762	566.370	14.61	566.090	5.354
Mean	566.119	57.74	566.287	25.28	566.553	104.9	566.841	142.7	566.162	7.619	566.010	3.504

Annual Runoff in MCM = 903 Annual Runoff in mm = 1015

Peak Observed Discharge = 18.04 cumecs on 08/09/2015 Corres. Water Level :566.28 m

Lowest Observed Discharge = 0.000 cumecs on 01/06/2015 Corres. Water Level :565.35 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 : Cherribeda (Cherribeda) **Division : L Godavari Div., Hyderabad**

Local River : Bardha **Sub-Division : Indravathi S D, Jagdalpur**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	565.950	2.354	565.840	0.693	565.690	0.321	565.680	0.000	565.630	0.000	564.400	0.000
2	565.950	2.326	565.840	0.690	565.690	0.558	565.680	0.000	565.630	0.000	564.400	0.000
3	565.940	2.135	565.830	0.689 *	565.680	0.539	565.680	0.000	565.620	0.000	564.400	0.000
4	565.940	2.213	565.830	0.689 *	565.680	0.533	565.680	0.000	565.620	0.000	564.400	0.000
5	565.930	2.050	565.820	0.551	565.680	0.502	565.680	0.000	565.610	0.000	564.400	0.000
6	565.930	2.050 *	565.820	0.545	565.670	0.478	565.670	0.000	565.600	0.000	564.400	0.000
7	565.930	2.050 *	565.810	0.492	565.670	0.478 *	565.670	0.000	565.590	0.000	564.400	0.000
8	565.930	1.465	565.800	0.470	565.670	0.423	565.670	0.000	565.580	0.000	564.400	0.000
9	565.930	1.514	565.790	0.421	565.670	0.321	565.670	0.000	565.570	0.000	564.400	0.000
10	565.930	1.381	565.790	0.421 *	565.660	0.000	565.670	0.000	565.560	0.000	564.400	0.000
11	565.930	1.501	565.780	0.421 *	565.660	0.000	565.670	0.000	565.550	0.000	564.400	0.000
12	565.930	1.506	565.770	0.363	565.660	0.000	565.670	0.000	565.540	0.000	564.400	0.000
13	565.920	1.621 *	565.770	0.363	565.660	0.000	565.670	0.000	565.530	0.000	564.400	0.000
14	565.920	1.621	565.760	0.371	565.650	0.000	565.670	0.000	565.520	0.000	564.400	0.000
15	565.910	1.753	565.760	0.371 *	565.650	0.000	565.670	0.000	565.510	0.000	564.400	0.000
16	565.910	1.446	565.760	0.362	565.650	0.000	565.670	0.000	564.400	0.000	564.400	0.000
17	565.900	1.398	565.750	0.350 *	565.650	0.000	565.690	0.000	564.400	0.000	564.400	0.000
18	565.900	1.357	565.750	0.350 *	565.640	0.000	565.720	0.000	564.400	0.000	564.400	0.000
19	565.890	1.269	565.750	0.350	565.640	0.000	565.710	0.000	564.400	0.000	564.400	0.000
20	565.890	1.269 *	565.740	0.321	565.630	0.000	565.700	0.000	564.400	0.000	564.400	0.000
21	565.880	1.269 *	565.740	0.645	565.630	0.000	565.700	0.000	564.400	0.000	564.400	0.000
22	565.880	1.062	565.730	0.656	565.630	0.000	565.690	0.000	564.400	0.000	564.400	0.000
23	565.870	1.017	565.730	0.662	565.620	0.000	565.690	0.000	564.400	0.000	564.400	0.000
24	565.870	1.017 *	565.720	0.662 *	565.620	0.000	565.690	0.000	564.400	0.000	564.400	0.000
25	565.870	1.017 *	565.720	0.662 *	565.600	0.000	565.690	0.000	564.400	0.000	564.400	0.000
26	565.860	0.777	565.720	0.662 *	565.620	0.000	565.680	0.000	564.400	0.000	564.400	0.000
27	565.860	0.777 *	565.710	0.608	565.650	0.000	565.670	0.000	564.400	0.000	564.400	0.000
28	565.860	0.777 *	565.710	0.584	565.670	0.000	565.660	0.000	564.400	0.000	564.400	0.000
29	565.850	0.851	565.700	0.530	565.670	0.000	565.660	0.000	564.400	0.000	564.400	0.000
30	565.850	0.777	565.700	0.508			565.650	0.000	564.400	0.000	564.400	0.000
31	565.850	0.777 *	565.700	0.508 *			565.640	0.000			564.400	0.000
Daily M												
Ten-Da	565.936	1.954	565.817	0.566	565.676	0.415	565.675	0.000	565.601	0.000	564.400	0.000
Ten-Da	565.910	1.474	565.759	0.362	565.649	0.000	565.684	0.000	564.965	0.000	564.400	0.000
Ten-Da	565.864	0.920	565.716	0.608	565.634	0.000	565.675	0.000	564.400	0.000	564.400	0.000
Monthl												
Min.	565.850	0.777	565.700	0.321	565.600	0.000	565.640	0.000	564.400	0.000	564.400	0.000
Max.	565.950	2.354	565.840	0.693	565.690	0.558	565.720	0.000	565.630	0.000	564.400	0.000
Mean	565.902	1.432	565.763	0.515	565.654	0.143	565.678	0	564.989	0	564.400	0

Peak Computed Discharge = 1762 cumecs on 17/09/2015 Corres. Water Level :569.91 m

Lowest Computed Discharge = 0.350 cumecs on 17/01/2016 Corres. Water Level :565.75 m

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

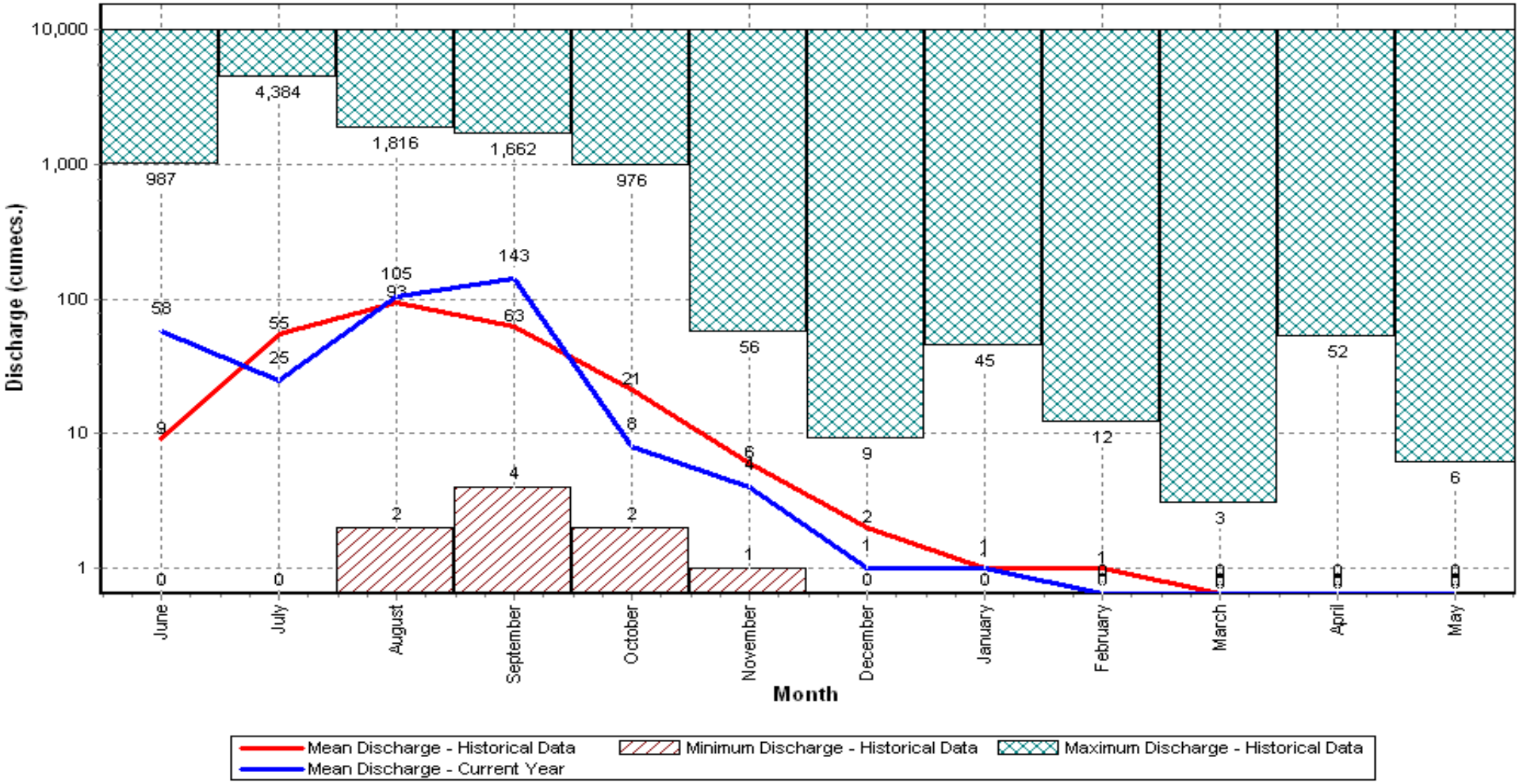
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016

Station Name : Cherribeda (Cherribeda) | **Data considered : 1996-2016** | **Division : L Godavari Div., Hyderabad**

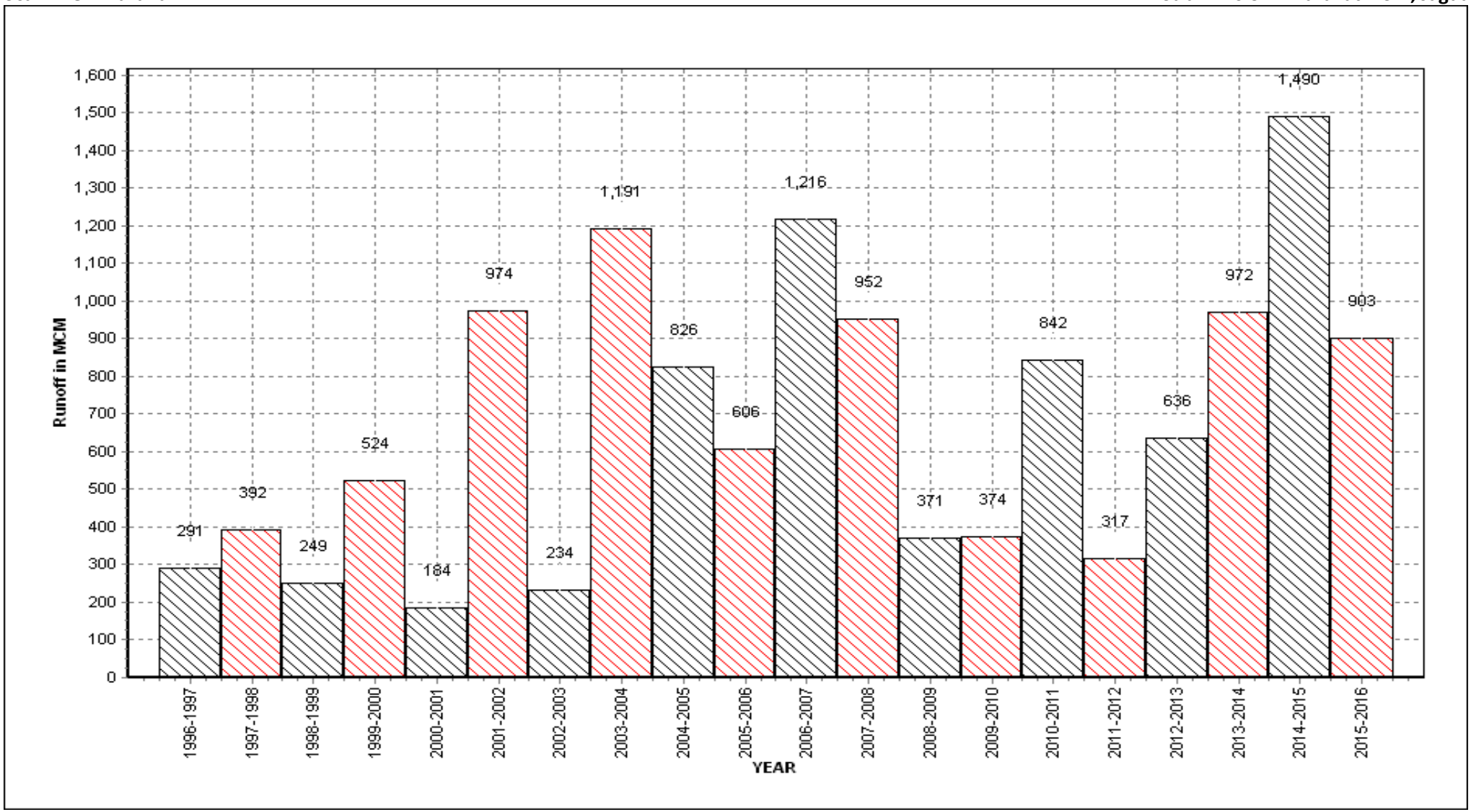
Local River : Bardha | **Sub-Division : Indravathi S D, Jagdalpur**



Annual Runoff Values for the period: 1996 - 2016

Station Name : Cherribeda (Cherribeda) **Division : L Godavari Div., Hyderabad**

Local River : Bardha **Sub-Division : Indravathi S D, Jagdalpur**

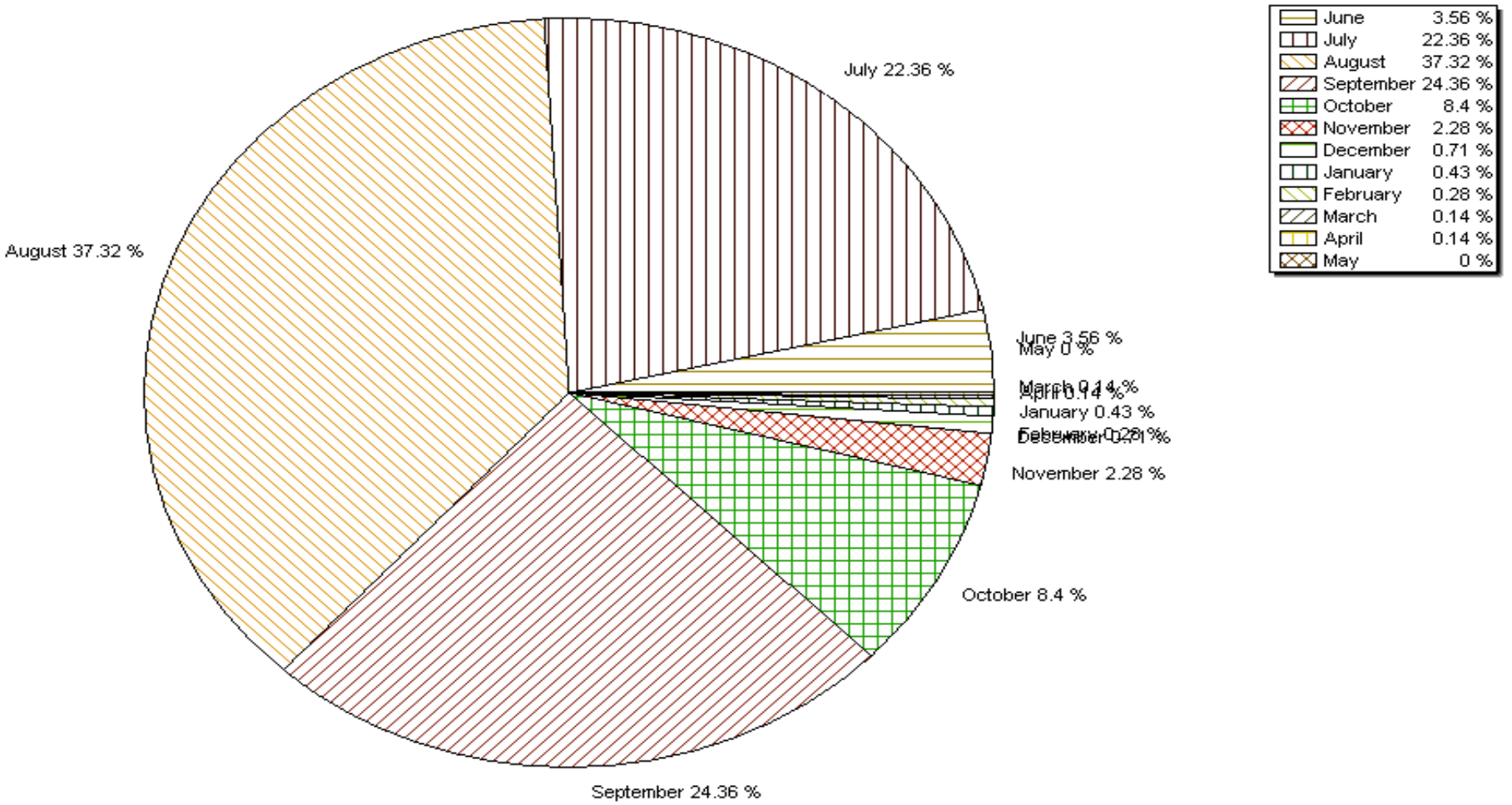


Note: Missing values have not been considered while arriving at Annual Runoff

Monthly Average Runoff based on period : 1996-2015

Station Name : Cherribeda (Cherribeda)
Local River : Bardha

Division : L Godavari Div., Hyderabad
Sub-Division : Indravathi S D, Jagdalpur



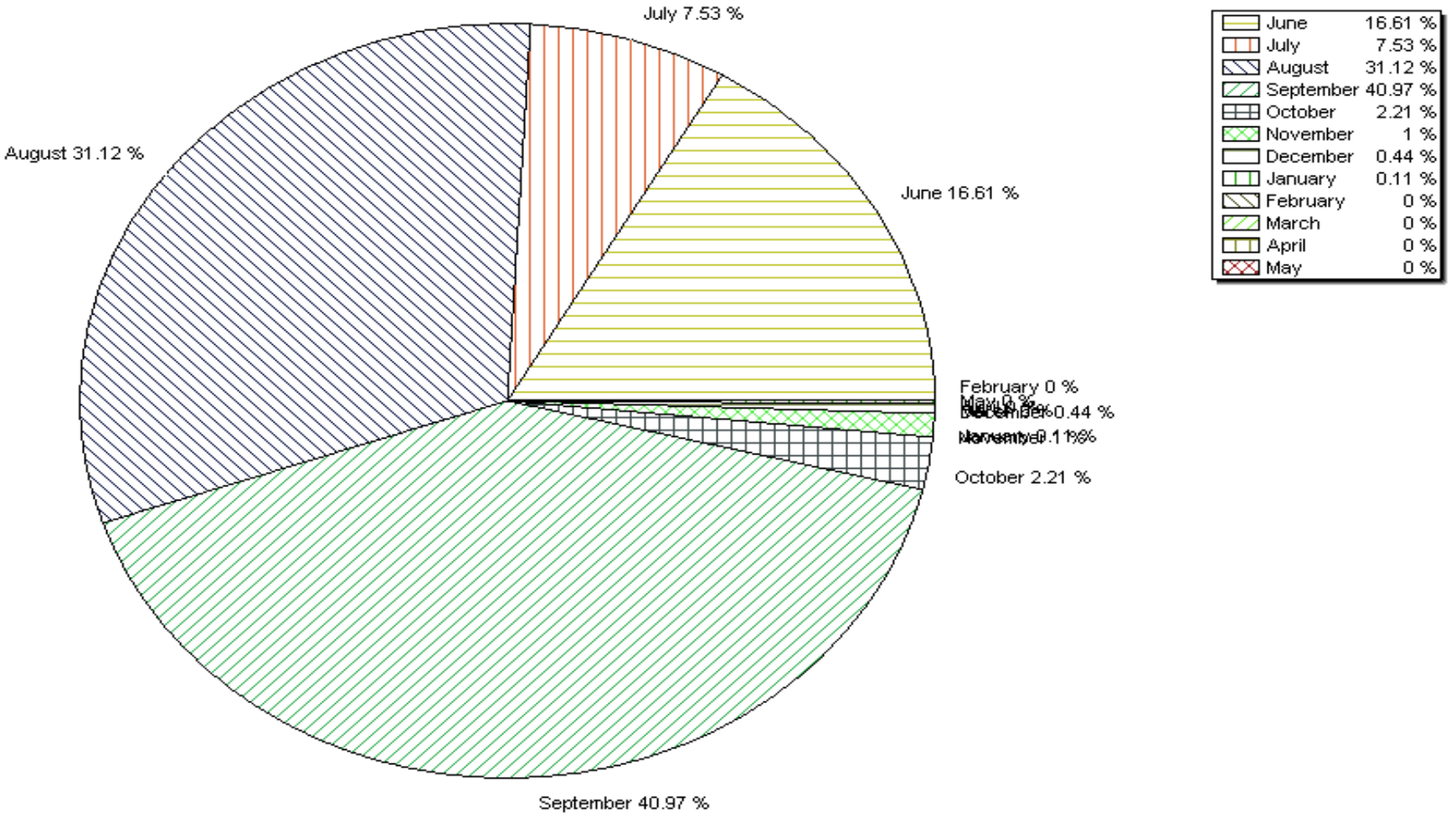
Monthly Runoff for the Year : 2015-2016

Station Name : Cherribeda (Cherribeda)

Local River : Bardha

Division : L Godavari Div., Hyderabad

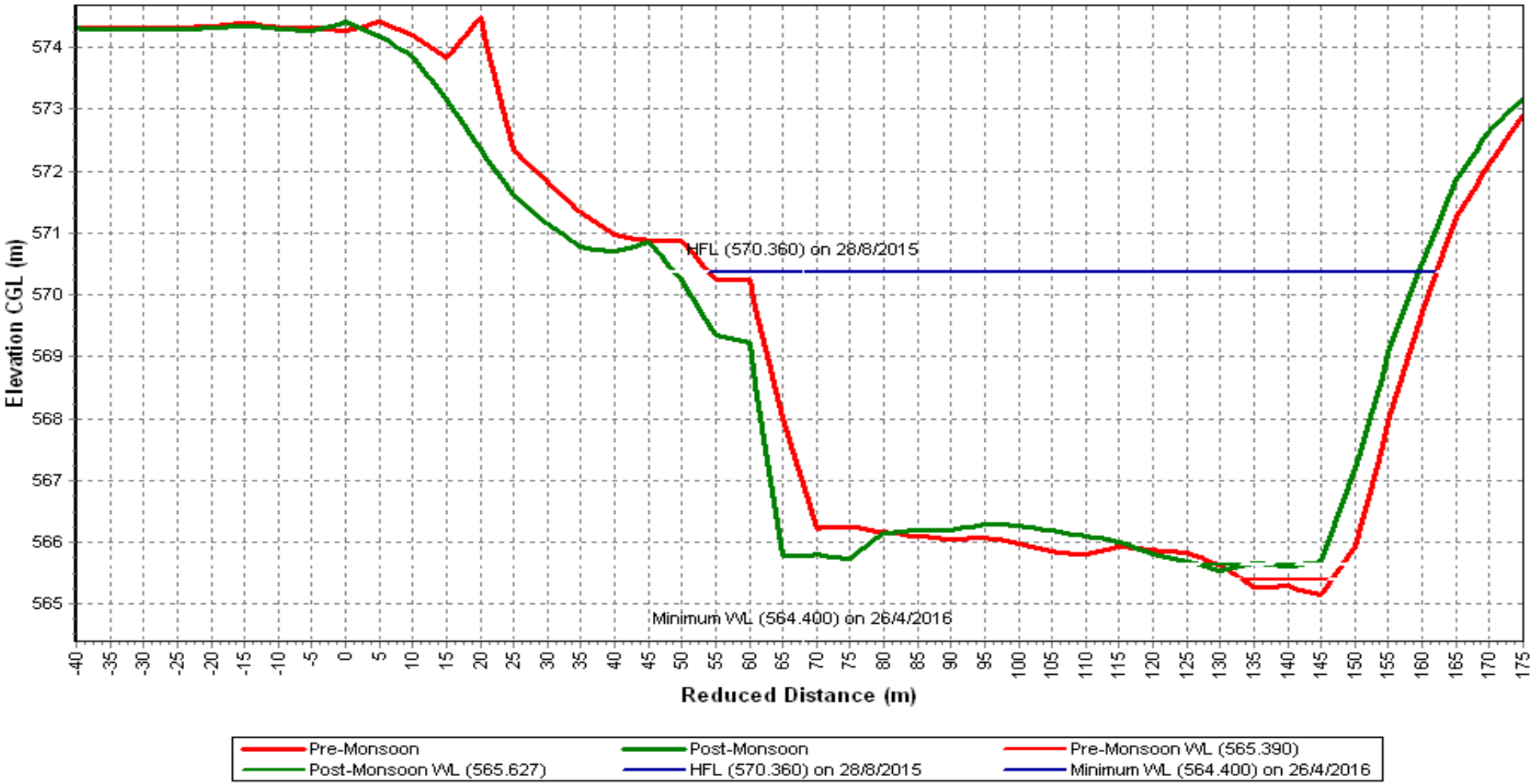
Sub-Division : Indravathi S D, Jagdalpur



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

Station Name : Cherribeda (Cherribeda) **Division : L Godavari Div., Hyderabad**

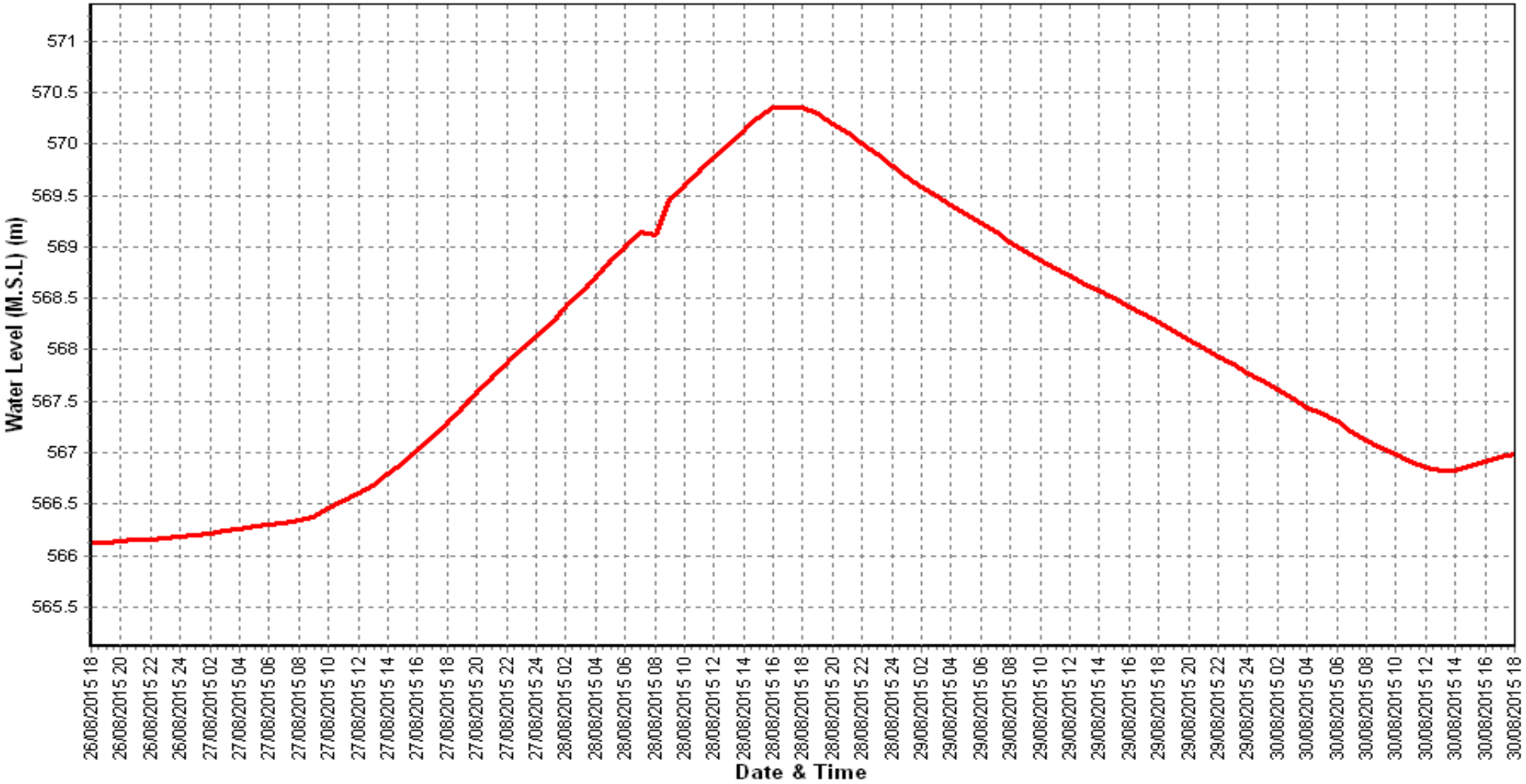
Local River : Bardha **Sub-Division : Indravathi S D, Jagdalpur**



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

Station Name : Cherribeda (Cherribeda) **Division : L Godavari Div., Hyderabad**

Local River : Bardha **Sub-Division : Indravathi S D, Jagdalpur**

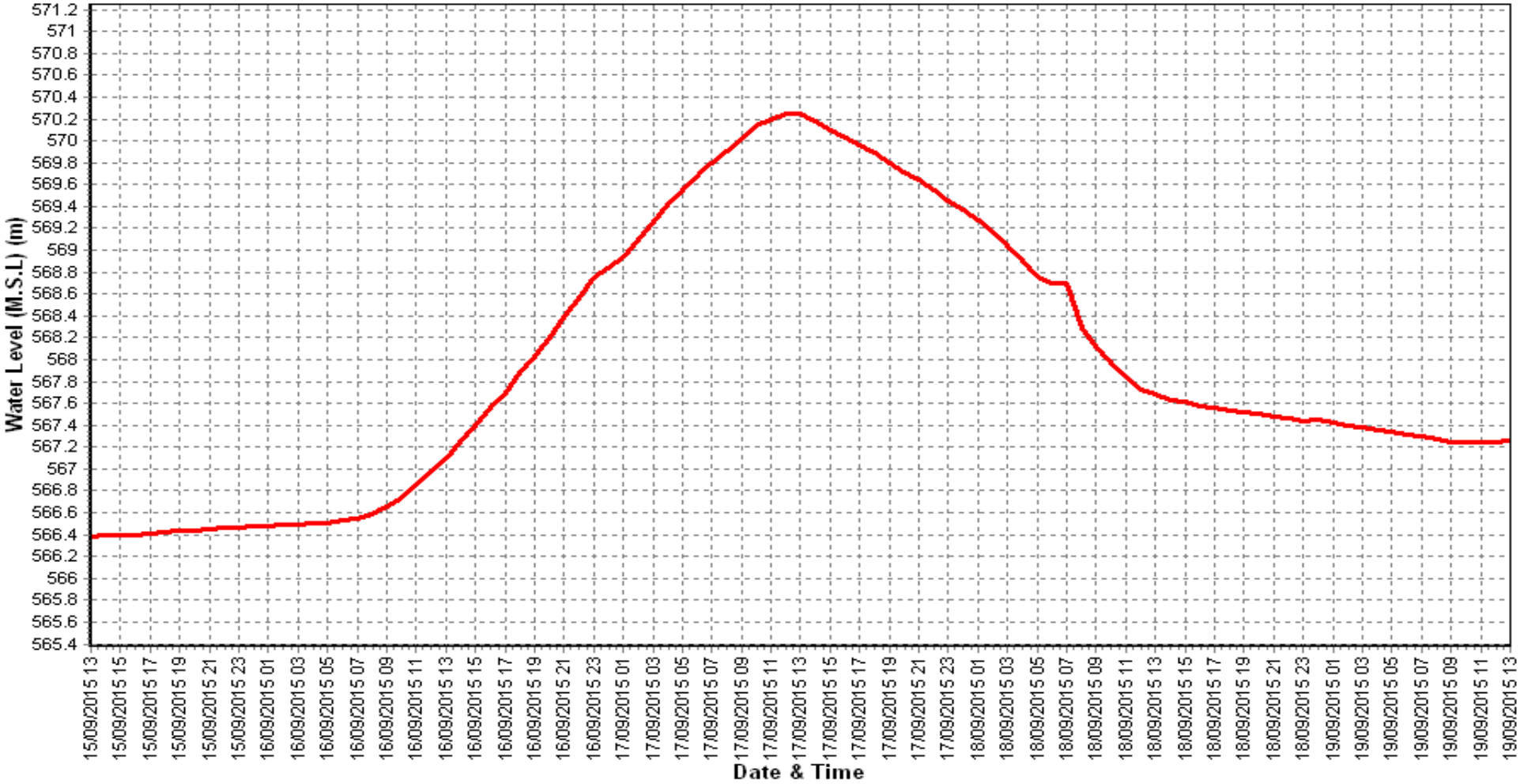


Time Span: 96 Hrs

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

Station Name : Cherribeda (Cherribeda) **Division : L Godavari Div., Hyderabad**

Local River : Bardha **Sub-Division : Indravathi S D, Jagdalpur**

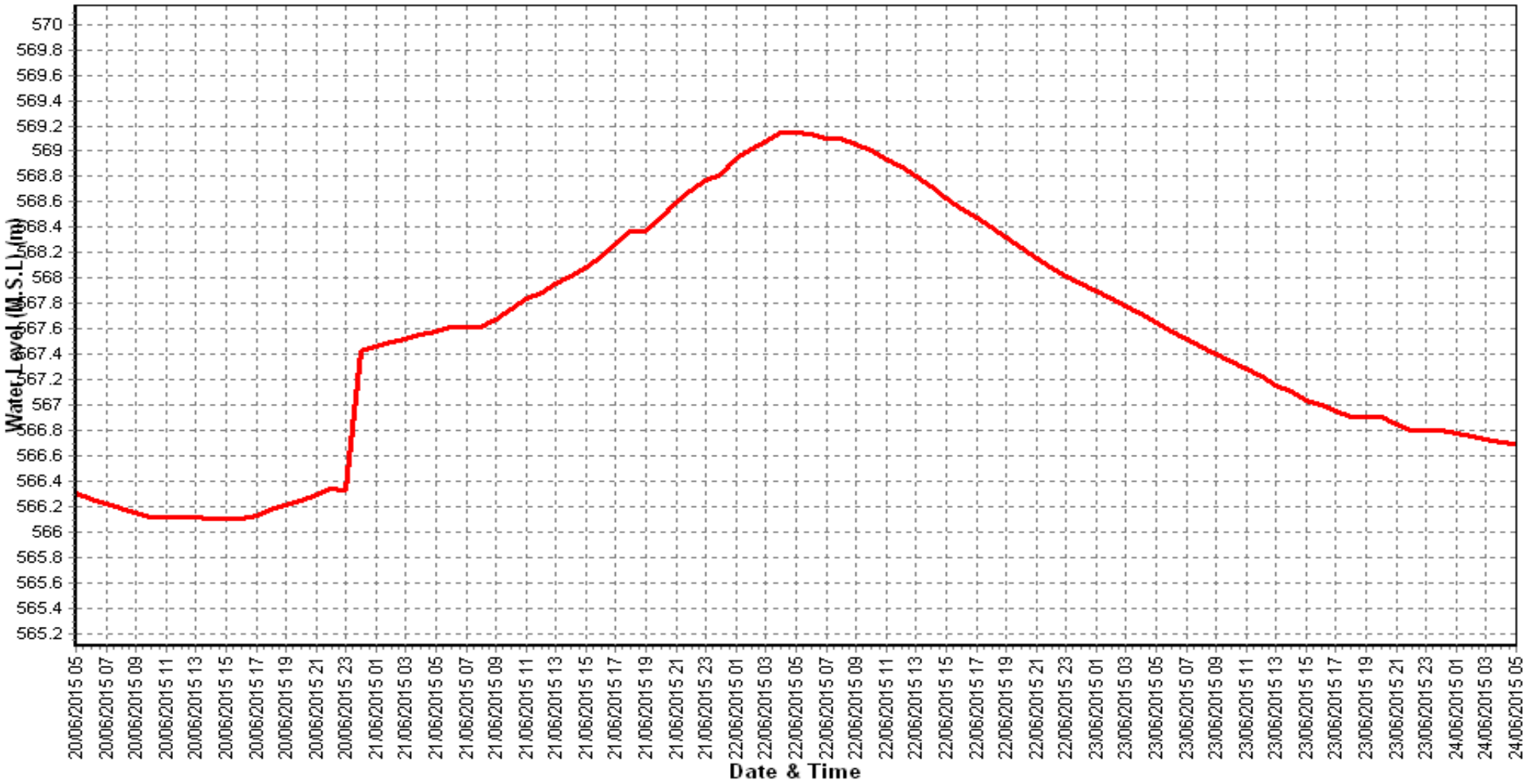


Time Span: 96 Hrs

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

Station Name : Cherribeda (Cherribeda) **Division : L Godavari Div., Hyderabad**

Local River : Bardha **Sub-Division : Indravathi S D, Jagdalpur**



Time Span: 96 Hrs

HISTORY SHEET

Water Year : 2015-2016

Site	**: Ambabal**		**Code**	**: AGC90C8**	
State	: Chhattisgarh		District	Bastar	
Basin	: Godavari		Independent River	: Godavari	
Tributary	: Indravathi		Sub Tributary	: Narangi	
Sub-Sub Tributary	: -		Local River	: Narangi	
Division	: Lower Godavari Div., Hyderabad		Sub-Division	: Indravati SD, Jagdalpur	
Drainage Area	: 1968 Sq. Km.		Bank	: Left	
Latitude	: 19°17'00"		Longitude	: 81°47'20"	
Zero of Gauge (m)	: 84 (m.s.l) 533.136 (m.s.l) 534.000 (m.s.l)		01.06.1989 01.11.1992 01.12.2000	- 31.10.1992 - 30.11.2000	
	Opening Date		Closing Date		
Gauge	: 09.12.1988		**HFL During 2015-16**	**: 539.580**	
			Corres. Discharge	**: 612.140 Cumes(Estimated)**	
Discharge	: 30.10.1993		**Date & Time of Occurance**	**: 22.06.2015 : 24:00 hrs.**	
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**
1993-1994	521.5	539.286	15.07.1993	0.000	535.041	19.03.1994
1994-1995	1180	541.756	05.09.1994	3.602	534.996	13.06.1994
1995-1996	774.4	540.476	24.07.1995	0.000	535.431	07.03.1996
1996-1997	511.5	538.796	16.08.1996	0.000	535.266	02.03.1997
1997-1998	360.0	538.131	22.08.1997	0.000	535.286	31.05.1998
1998-1999	145.5	537.226	08.09.1998	0.000		02.05.1999
1999-2000		538.511	04.08.1999	0.000		30.04.2000
2000-2001	567.9	538.816	30.08.2000	0.000		28.03.2001
2001-2002	1303	540.720	20.08.2001	0.000	534.540	23.05.2002
2002-2003	476.3	538.280	24.08.2002	0.000		07.04.2003
2003-2004	604.0	539.140	25.07.2003	0.000	534.850	09.03.2004
2004-2005	771.3	539.500	15.06.2004	0.000	534.795	02.04.2005
2005-2006	551.4	538.965	14.09.2005	0.000	534.810	17.03.2006
2006-2007	2243	542.450	05.07.2006	0.011	534.580	09.04.2007
2007-2008	1770	541.550	08.08.2007	0.000	534.800	24.04.2008
2008-2009	398.3	537.850	28.07.2008	0.000	534.820	07.02.2009
2009-2010	525.4	538.240	27.08.2009	0.000	535.050	11.02.2010
2010-2011	1220	541.730	06.08.2010	0.000	536.580	12.02.2011
2011-2012	258.6	538.310	01.09.2011	0.000	536.550	06.12.2011
2012-2013	585.1	538.900	06.08.2012	0.000	536.540	29.01.2013

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**
2013-2014	658.4	539.150	25.06.2013	0.000	536.030	01.03.2014
2014-2015	1862	539.930	22.07.2014	0.000	536.570	06.03.2015

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

Stage-Discharge Data for the period 2015 - 2016

Station Name : Ambabal (AGC90C8) **Division : Lower Godavari Div., Hyderabad**

Local River : Narangi **Sub-Division : Indravati SD, Jagdalpur**

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	535.820	0.000	537.070	0.000	535.248	4.541	537.300	152.0	535.473	20.17	536.710	0.000
2	535.800	0.000	536.930	0.000	535.220	4.124 *	537.110	124.6	535.450	18.90 *	536.680	0.000
3	535.820	0.000	536.850	0.000	535.200	3.972	536.750	77.22	535.440	16.41	536.670	0.000
4	535.820	0.000	536.920	0.000	535.220	4.239	536.200	42.42	535.450	18.90 *	536.660	0.000
5	535.810	0.000	536.780	0.000	535.180	3.707	535.720	26.71	535.480	51.67	536.650	0.000
6	535.830	0.000	536.690	0.000	535.160	3.243	535.710	25.01 *	535.435	15.38	536.660	0.000
7	535.810	0.000	536.640	0.000	535.160	3.519	535.655	24.91	535.380	12.96	536.660	0.000
8	535.800	0.000	536.600	0.000	535.178	3.908	535.630	20.51	535.350	9.487	536.650	0.000
9	535.780	0.000	536.550	0.000	535.230	4.315 *	535.980	38.91	535.310	32.94	536.600	0.000
10	535.770	0.000	536.560	0.000	535.263	6.092	535.855	37.63	535.290	26.47	536.620	0.000
11	535.760	0.000	535.950	0.000	535.330	8.773	535.650	29.08	535.280	17.10 *	536.600	0.000
12	535.810	0.000	535.910	0.000	535.490	11.18 *	535.600	21.88	535.250	16.48	536.610	0.000
13	536.400	0.000	535.770	0.000	536.410	50.67	535.950	23.29 *	535.240	13.43	536.630	0.000
14	536.650	0.000	535.728	27.82	537.050	106.7	536.763	71.19	535.220	11.94	536.630	0.000
15	536.650	0.000	536.158	38.09	536.880	97.86 *	536.725	64.41	535.113	4.609	536.630	0.000
16	537.300	0.000	535.913	28.08	536.300	43.49 *	537.085	102.7	536.680	0.000	536.640	0.000
17	537.220	0.000	535.705	20.99	535.940	36.47	539.340	618.3 *	536.670	0.000	536.640	0.000
18	537.100	0.000	535.730	34.60 *	537.095	127.8	538.820	469.2 *	536.680	0.000	536.630	0.000
19	536.900	0.000	535.690	19.88 *	536.910	129.9	537.410	159.8	536.720	0.000	536.570	0.000
20	536.900	0.000	535.630	11.77	536.265	55.06	537.430	173.5 *	536.710	0.000	536.540	0.000
21	538.650	0.000	535.698	17.49	536.485	60.94	538.370	357.1 *	536.640	0.000	536.610	0.000
22	539.320	0.000	536.358	39.91	536.440	52.80	537.550	222.7	536.640	0.000	536.610	0.000
23	537.850	0.000	536.470	51.94	535.850	27.92 *	537.135	123.9	536.660	0.000	536.610	0.000
24	537.350	0.000	536.865	87.34	535.568	23.84	536.855	79.73	536.660	0.000	536.610	0.000
25	537.180	0.000	536.165	44.40	535.480	18.75	536.620	70.26 *	536.670	0.000	536.600	0.000
26	537.020	0.000	535.650	18.31 *	535.400	16.02	536.305	48.03	536.670	0.000	536.600	0.000
27	536.900	0.000	535.548	15.84	535.370	14.99	535.950	33.29 *	536.640	0.000	536.600	0.000
28	536.840	0.000	535.440	12.77	537.725	262.8	535.683	28.30	536.640	0.000	536.600	0.000
29	536.800	0.000	535.388	10.33	538.750	450.7 *	535.555	25.11	536.630	0.000	536.600	0.000
30	536.850	0.000	535.318	7.314	537.460	178.3 *	535.503	23.61	536.650	0.000	536.600	0.000
31			535.275	4.996	537.185	144.3			536.680	0.000		
Daily Mean												
Ten-Dai	535.806	0.000	536.759	0.000	535.206	4.166	536.191	57.00	535.406	22.33	536.656	0.000
Ten-Da	536.669	0.000	535.818	18.12	536.367	66.80	537.077	173.3	535.956	6.356	536.612	0.000
Ten-Da	537.476	0.000	535.834	28.24	536.519	113.8	536.552	101.2	536.653	0.000	536.604	0.000
Monthly												
Min.	535.760	0.000	535.275	0.000	535.160	3.243	535.503	20.51	535.112	0.000	536.540	0.000
Max.	539.320	0.000	537.070	87.34	538.750	450.7	539.340	618.3	536.720	51.67	536.710	0.000
Mean	536.650	0	536.127	15.87	536.046	63.26	536.607	110.5	536.026	9.253	536.624	0

Annual Runoff in MCM = 523 Annual Runoff in mm = 266

Peak Observed Discharge = 262.8 cumecs on 28/08/2015 Corres. Water Level :537.725 m

Lowest Observed Discharge = 0.000 cumecs on 01/06/2015 Corres. Water Level :535.82 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

Stage-Discharge Data for the period 2015 - 2016

Station Name : Ambabal (AGC90C8) **Division : Lower Godavari Div., Hyderabad**

Local River : Narangi **Sub-Division : Indravati SD, Jagdalpur**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	536.600	0.000	536.550	0.000	536.550	0.000	536.550	0.000	536.470	0.000	536.190	0.000
2	536.600	0.000	536.550	0.000	536.550	0.000	536.550	0.000	536.460	0.000	536.100	0.000
3	536.600	0.000	536.550	0.000	536.550	0.000	536.550	0.000	536.460	0.000	535.900	0.000
4	536.600	0.000	536.550	0.000	536.550	0.000	536.550	0.000	536.460	0.000	535.900	0.000
5	536.600	0.000	536.550	0.000	536.550	0.000	536.560	0.000	536.440	0.000	535.890	0.000
6	536.600	0.000	536.550	0.000	536.550	0.000	536.560	0.000	536.430	0.000	535.880	0.000
7	536.600	0.000	536.550	0.000	536.550	0.000	536.550	0.000	536.420	0.000	535.880	0.000
8	536.600	0.000	536.550	0.000	536.550	0.000	536.550	0.000	536.410	0.000	535.870	0.000
9	536.590	0.000	536.550	0.000	536.550	0.000	536.550	0.000	536.400	0.000	535.860	0.000
10	536.590	0.000	536.550	0.000	536.550	0.000	536.550	0.000	536.390	0.000	535.860	0.000
11	536.590	0.000	536.550	0.000	536.550	0.000	536.550	0.000	536.380	0.000	535.850	0.000
12	536.590	0.000	536.550	0.000	536.550	0.000	536.550	0.000	536.340	0.000	535.850	0.000
13	536.590	0.000	536.550	0.000	536.550	0.000	536.520	0.000	536.310	0.000	535.840	0.000
14	536.590	0.000	536.550	0.000	536.550	0.000	536.510	0.000	536.300	0.000	535.840	0.000
15	536.590	0.000	536.550	0.000	536.540	0.000	536.580	0.000	536.280	0.000	535.830	0.000
16	536.590	0.000	536.550	0.000	536.540	0.000	536.580	0.000	536.230	0.000	535.830	0.000
17	536.590	0.000	536.550	0.000	536.530	0.000	536.580	0.000	536.220	0.000	535.800	0.000
18	536.590	0.000	536.550	0.000	536.530	0.000	536.550	0.000	536.210	0.000	535.800	0.000
19	536.590	0.000	536.550	0.000	536.530	0.000	536.550	0.000	536.210	0.000	535.800	0.000
20	536.580	0.000	536.550	0.000	536.530	0.000	536.550	0.000	536.200	0.000	535.800	0.000
21	536.580	0.000	536.550	0.000	536.530	0.000	536.550	0.000	536.200	0.000	535.800	0.000
22	536.600	0.000	536.550	0.000	536.530	0.000	536.550	0.000	536.200	0.000	535.800	0.000
23	536.590	0.000	536.550	0.000	536.550	0.000	536.550	0.000	536.200	0.000	535.800	0.000
24	536.560	0.000	536.550	0.000	536.550	0.000	536.550	0.000	536.200	0.000	535.800	0.000
25	536.570	0.000	536.550	0.000	536.550	0.000	536.530	0.000	536.200	0.000	535.800	0.000
26	536.570	0.000	536.550	0.000	536.550	0.000	536.520	0.000	536.200	0.000	535.800	0.000
27	536.560	0.000	536.550	0.000	536.550	0.000	536.490	0.000	536.200	0.000	535.800	0.000
28	536.560	0.000	536.550	0.000	536.550	0.000	536.470	0.000	536.190	0.000	535.800	0.000
29	536.570	0.000	536.550	0.000	536.550	0.000	536.460	0.000	536.190	0.000 *	535.800	0.000
30	536.560	0.000	536.550	0.000			536.460	0.000	536.190	0.000	535.800	0.000
31	536.550	0.000	536.550	0.000			536.470	0.000			535.800	0.000
Daily M												
Ten-Dai	536.598	0.000	536.550	0.000	536.550	0.000	536.552	0.000	536.434	0.000	535.933	0.000
Ten-Da	536.589	0.000	536.550	0.000	536.540	0.000	536.552	0.000	536.268	0.000	535.824	0.000
Ten-Da	536.570	0.000	536.550	0.000	536.546	0.000	536.509	0.000	536.197	0.000	535.800	0.000
Monthl												
Min.	536.550	0.000	536.550	0.000	536.530	0.000	536.460	0.000	536.190	0.000	535.800	0.000
Max.	536.600	0.000	536.550	0.000	536.550	0.000	536.580	0.000	536.470	0.000	536.190	0.000
Mean	536.585	0	536.550	0	536.545	0	536.537	0	536.300	0	535.851	0

Peak Computed Discharge = 618.3 cumecs on 17/09/2015 Corres. Water Level :539.34 m

Lowest Computed Discharge = 0.000 cumecs on 29/04/2016 Corres. Water Level :536.19 m

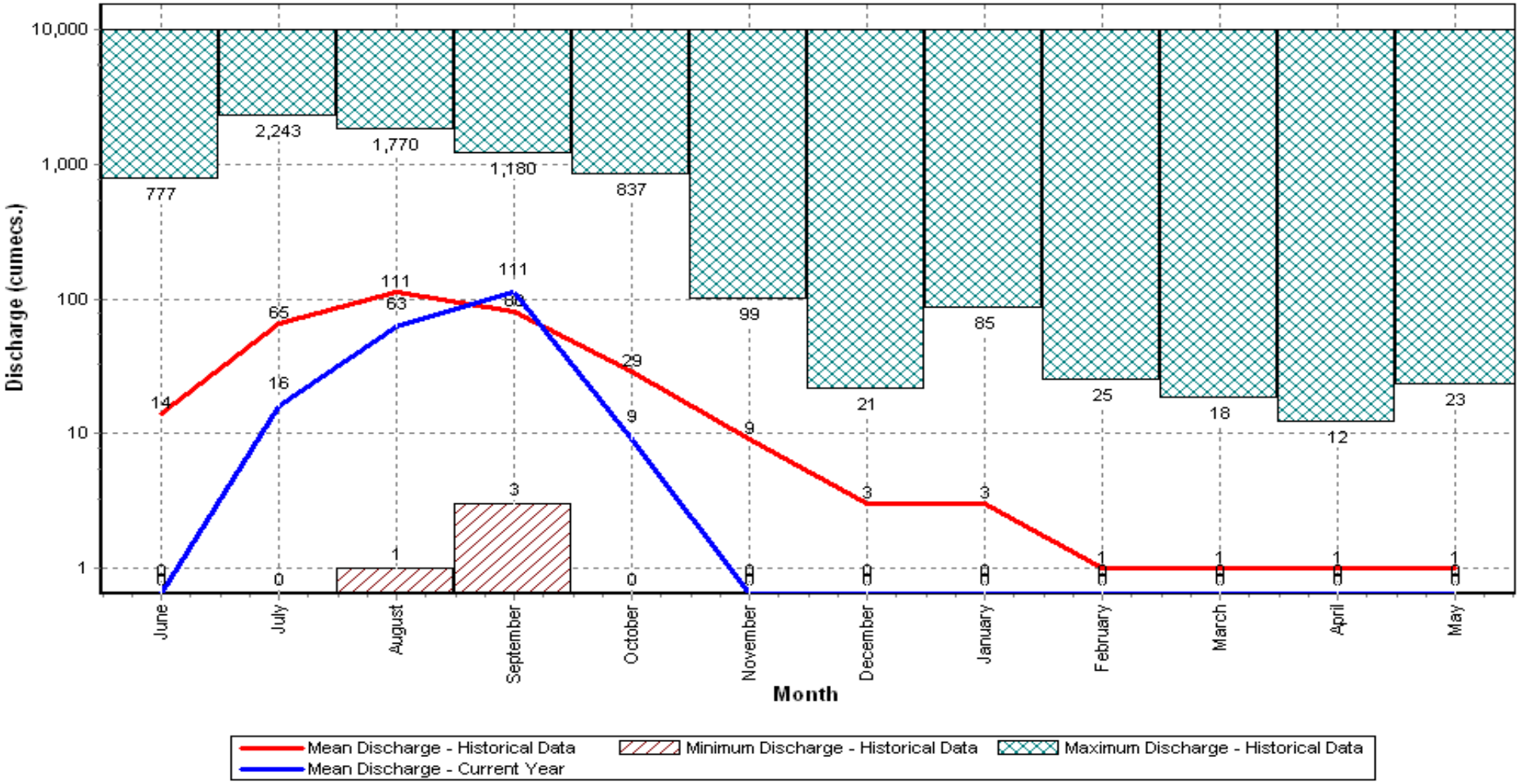
Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016

Station Name : Ambabal (AGC90C8) | **Data considered : 1993-2016** | **Division : Lower Godavari Div., Hyderabad**

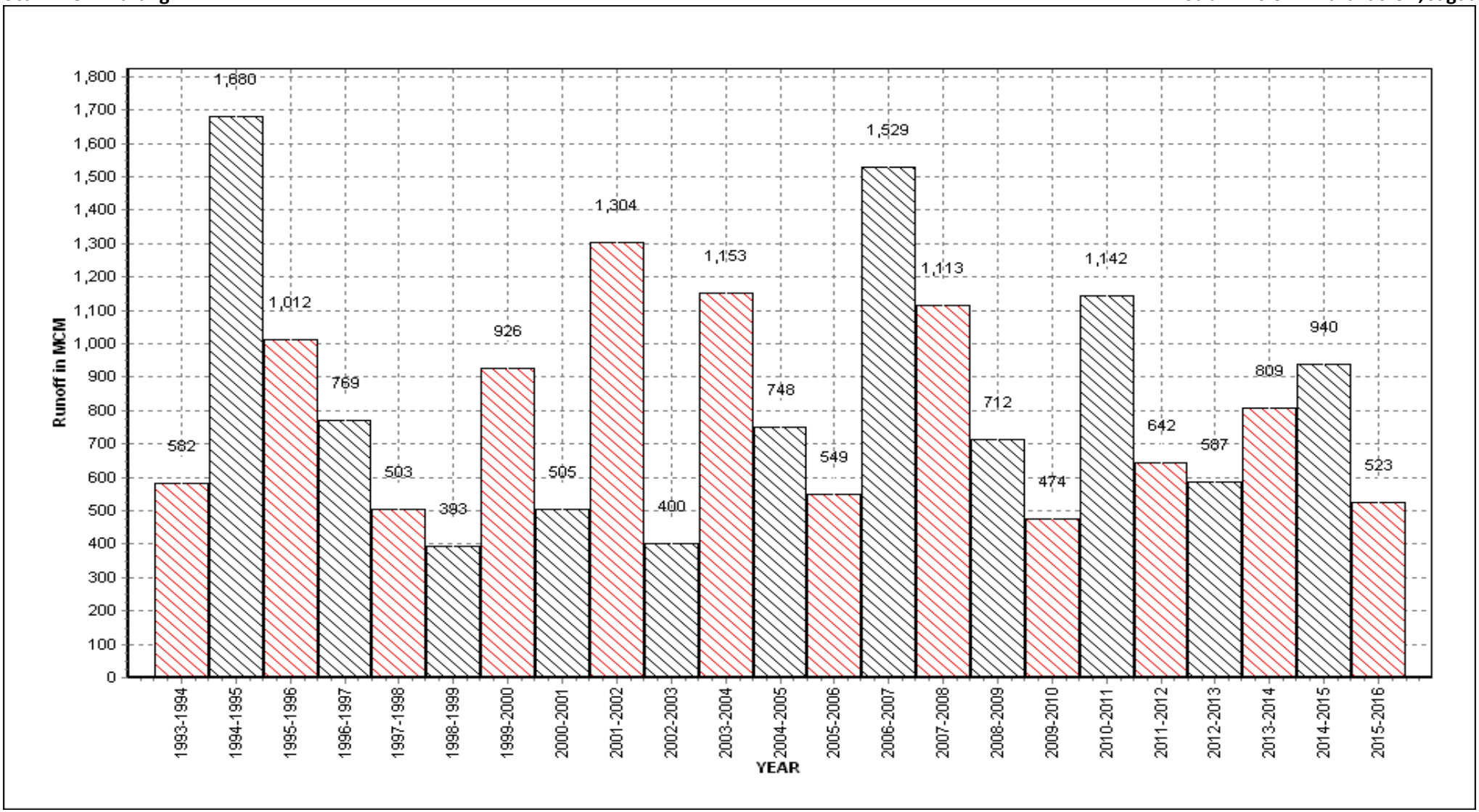
Local River : Narangi | **Sub-Division : Indravati SD, Jagdalpur**



Annual Runoff Values for the period: 1993 - 2016

Station Name : Ambabal (AGC90C8) **Division : Lower Godavari Div., Hyderabad**

Local River : Narangi **Sub-Division : Indravati SD, Jagdalpur**



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

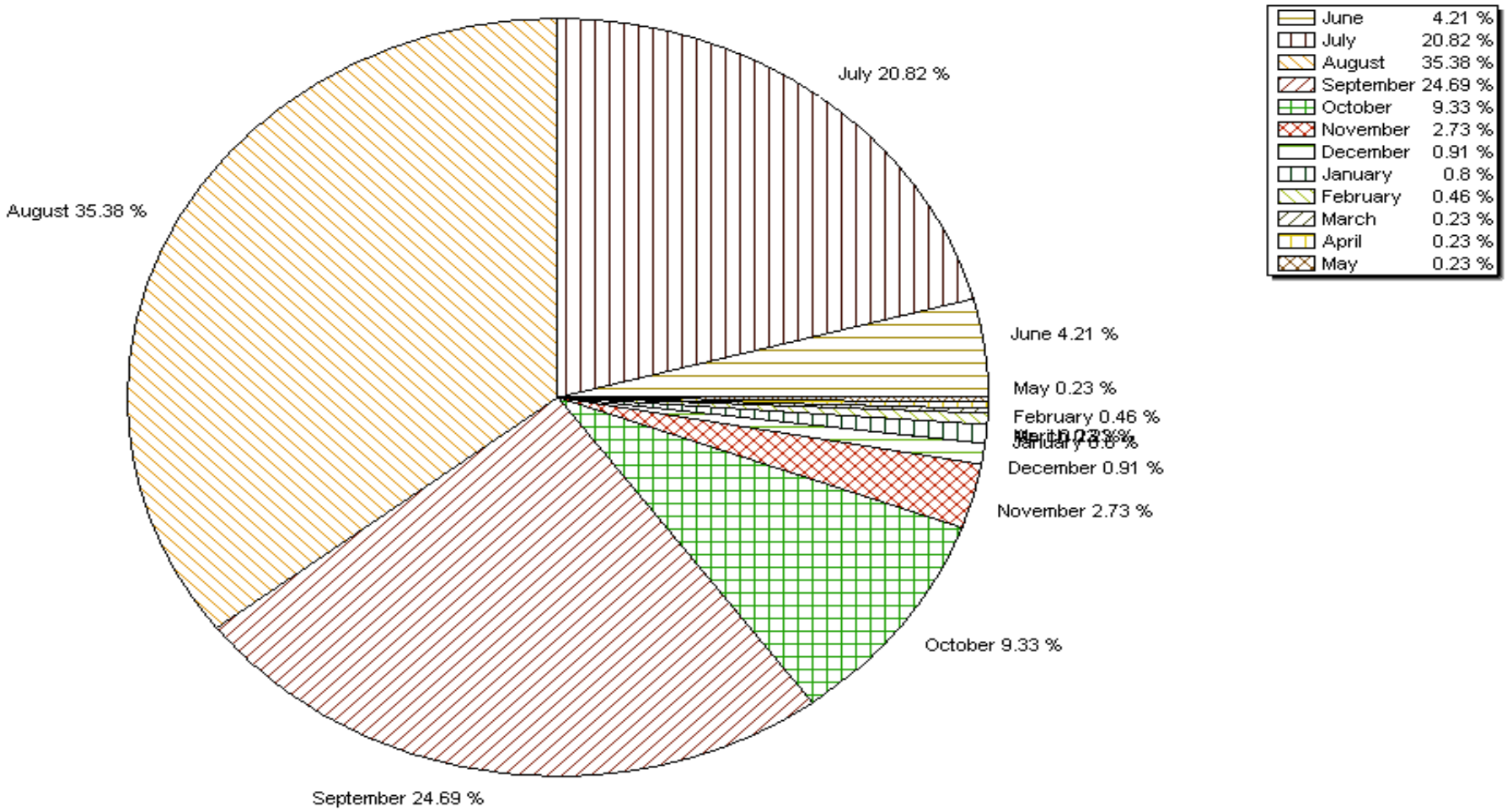
Monthly Average Runoff based on period : 1993-2015

Station Name : Ambabal (AGC90C8)

Local River : Narangi

Division : Lower Godavari Div., Hyderabad

Sub-Division : Indravati SD, Jagdalpur



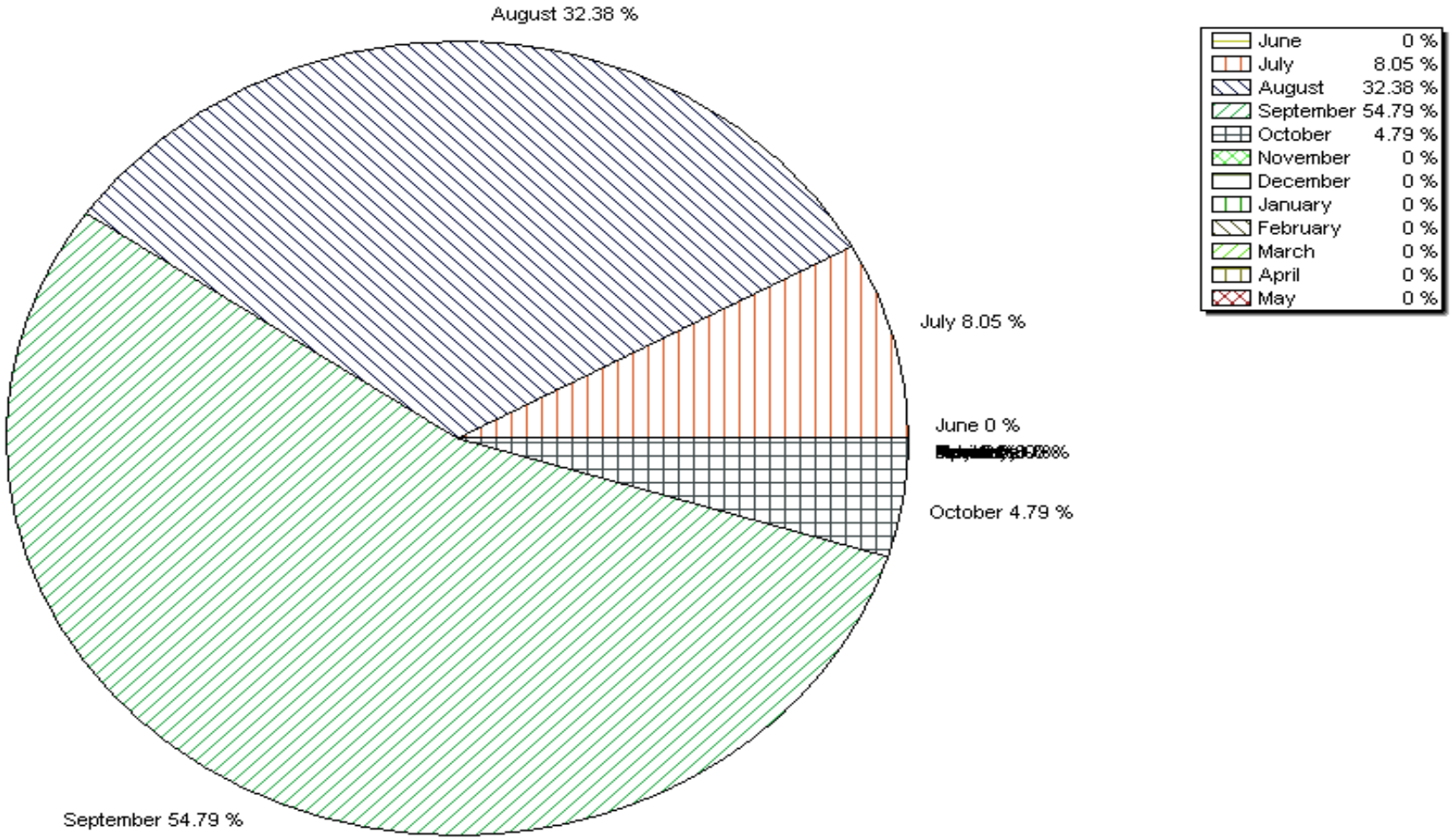
Monthly Runoff for the Year : 2015-2016

Station Name : Ambabal (AGC90C8)

Local River : Narangi

Division : Lower Godavari Div., Hyderabad

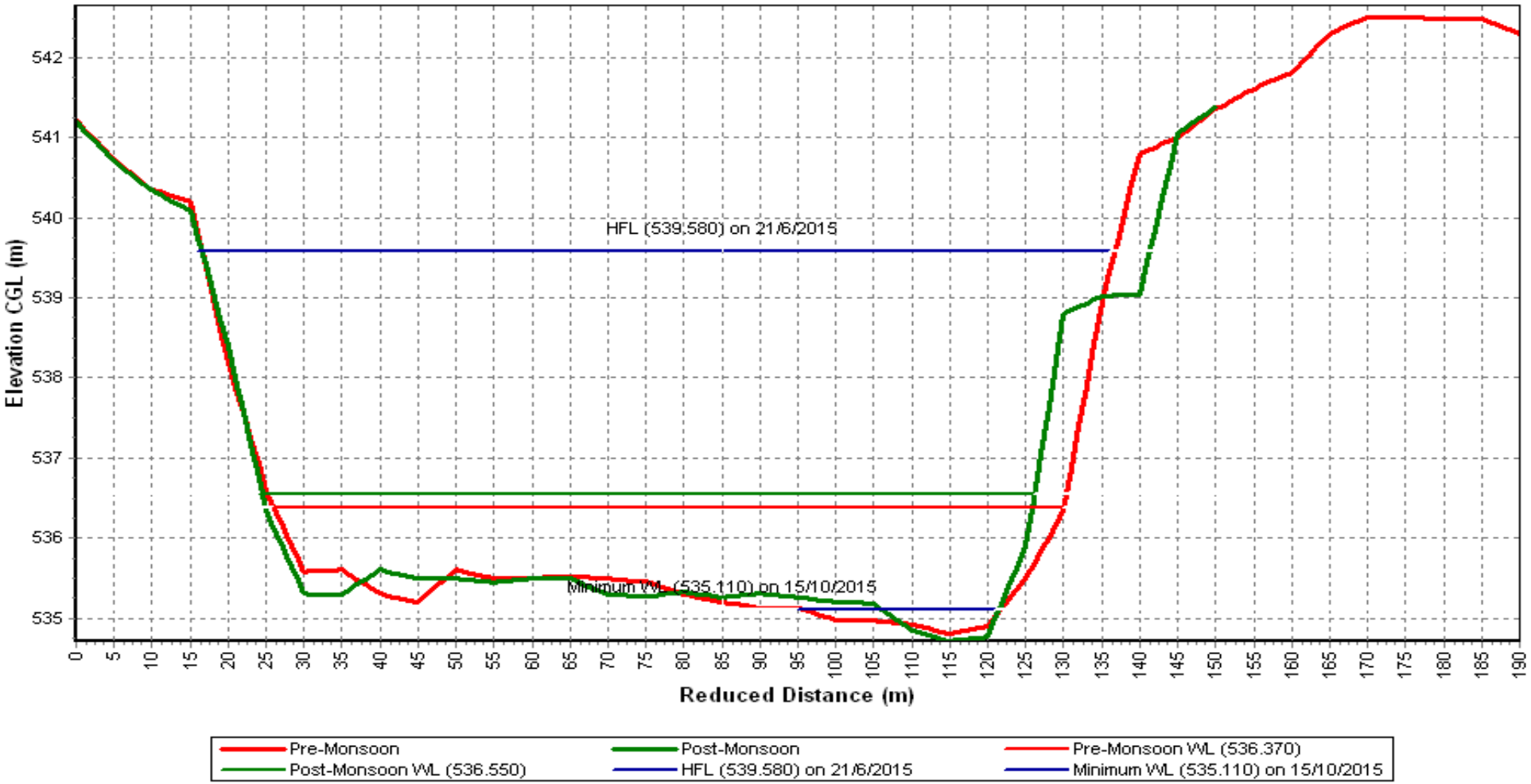
Sub-Division : Indravati SD, Jagdalpur



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

Station Name : Ambabal (AGC90C8) **Division : Lower Godavari Div., Hyderabad**

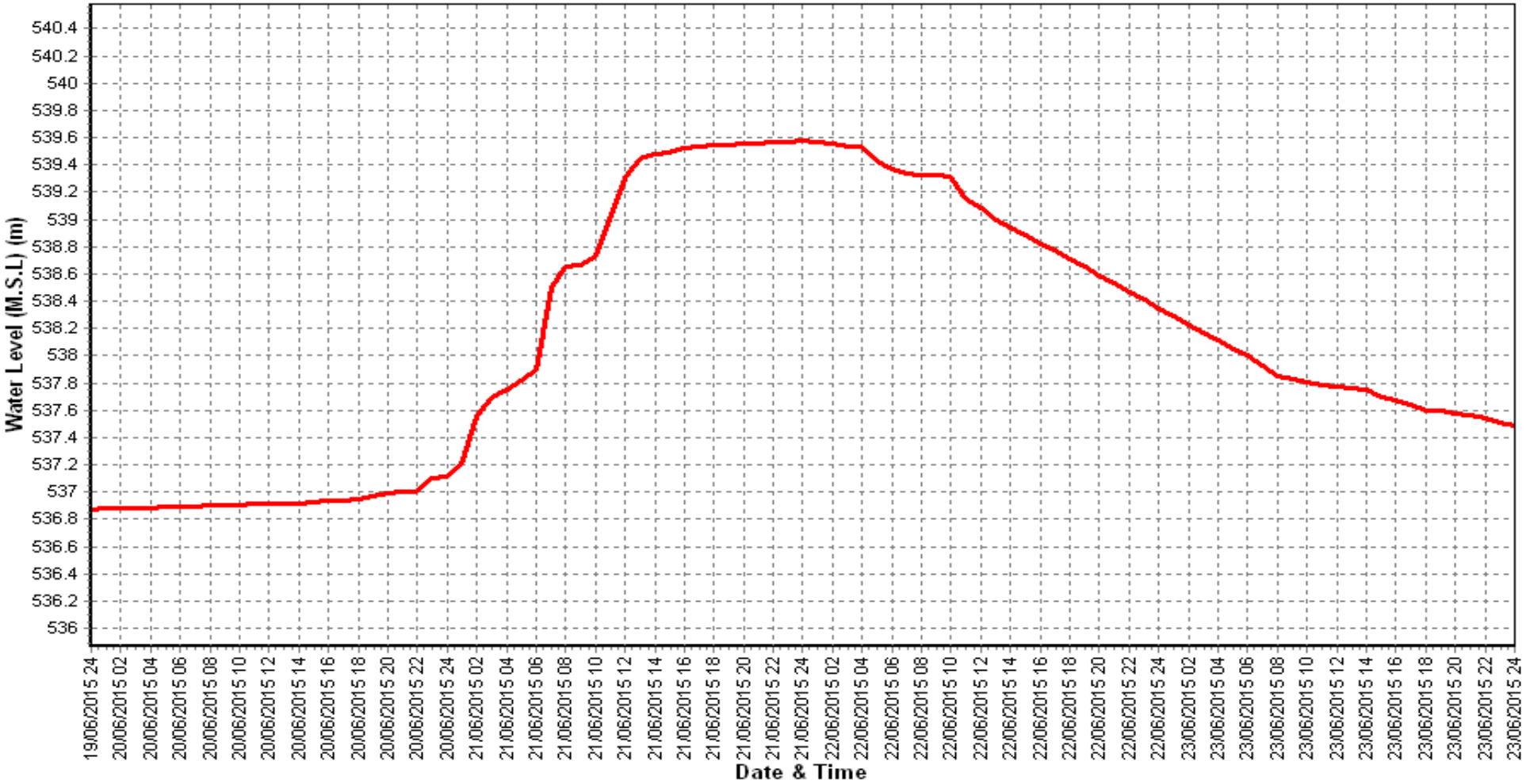
Local River : Narangi **Sub-Division : Indravati SD, Jagdalpur**



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

Station Name : Ambabal (AGC90C8) **Division : Lower Godavari Div., Hyderabad**

Local River : Narangi **Sub-Division : Indravati SD, Jagdalpur**

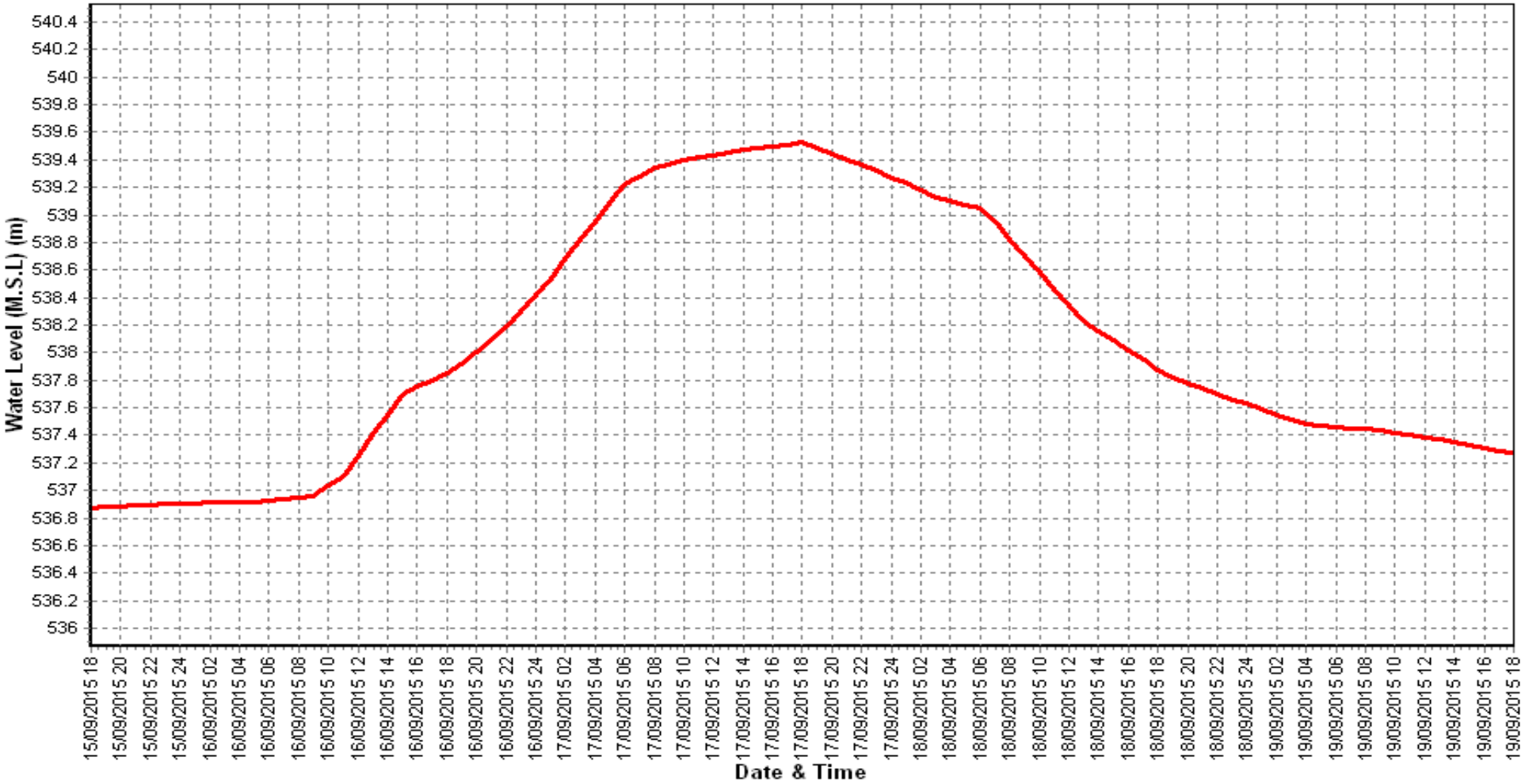


Time Span: 96 Hrs

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

Station Name : Ambabal (AGC90C8) **Division : Lower Godavari Div., Hyderabad**

Local River : Narangi **Sub-Division : Indravati SD, Jagdalpur**

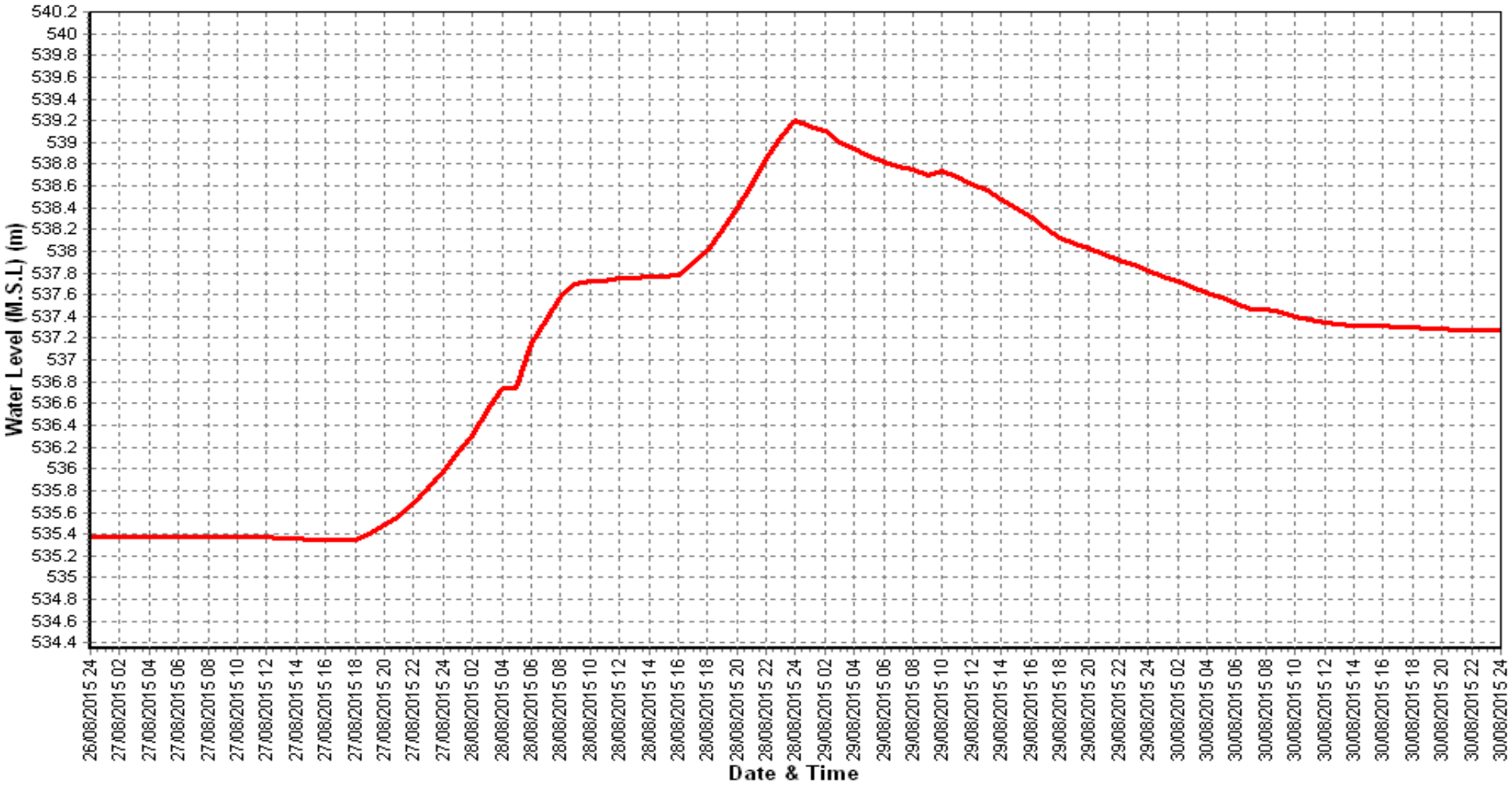


Time Span: 96 Hrs

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

Station Name : Ambabal (AGC90C8) **Division : Lower Godavari Div., Hyderabad**

Local River : Narangi **Sub-Division : Indravati SD, Jagdalpur**



Time Span: 96 Hrs

HISTORY SHEET

Water Year : 2015-2016

Site	**: Sonarpal**		**Code**	**: AGG91F2**	
State	: Chhattisgarh		District	Bastar	
Basin	: Godavari		Independent River	: Godavari	
Tributary	: Indravathi		Sub Tributary	: Markandi	
Sub-Sub Tributary	: --'		Local River	: Markandi	
Division	: L Godavari Div., Hyderabad		Sub-Division	: Indravathi S D, Jagdalpur	
Drainage Area	: 1523 Sq. Km.		Bank	: Right	
Latitude	: 19°16'00"		Longitude	: 81°52'00"	
Zero of Gauge (m)	: 534.356 (m.s.l) 534.000 (m.s.l)		01.07.1989 01.12.2000	- 30.11.2000	
	Opening Date		Closing Date		
Gauge	: 01.07.1989		**HFL During 2015-16**	**: 540.650**	
			Corres. Discharge	**: 1159.832 Cumes(Estimated)**	
Discharge	: 05.12.1991		**Date & Time of**	**: 21.06.2015**	
			Occurance	**: 21:00 hrs.**	
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**
1992-1993	1160	541.886	28.07.1992	0.000	535.146	03.05.1993
1993-1994	519.2	539.756	06.09.1993	0.007	535.186	23.04.1994
1994-1995	1247	542.106	30.08.1994	0.243	535.176	15.04.1995
1995-1996	1373	542.456	24.07.1995	3.822	535.206	01.06.1995
1996-1997	437.8	539.386	21.07.1996	0.004	535.216	03.04.1997
1997-1998	303.1	538.446	20.09.1997	0.000	535.146	23.04.1998
1998-1999	285.7	538.456	16.08.1998	0.000		23.04.1999
1999-2000	540.0	539.456	04.08.1999	0.000		22.04.2000
2000-2001	689.3	540.246	30.08.2000	0.000		05.04.2001
2001-2002	909.3	540.800	20.08.2001	0.000	534.210	16.03.2002
2002-2003	804.6	540.650	24.08.2002	0.139	534.540	02.06.2002
2003-2004	683.3	540.120	25.07.2003	0.000	534.490	28.06.2003
2004-2005	781.2	540.650	15.06.2004	0.000	534.540	23.05.2005
2005-2006	599.2	539.450	14.09.2005	0.002	534.530	13.03.2006
2006-2007	1509	542.570	04.07.2006	0.000	534.635	04.04.2007
2007-2008	1260	541.600	07.08.2007	0.000	534.605	17.03.2008
2008-2009	462.2	539.155	29.07.2008	0.000	534.620	14.03.2009
2009-2010	408.1	538.585	27.08.2009	0.000	534.440	08.04.2010
2010-2011	1546	542.350	06.08.2010	0.000	534.580	02.05.2011
2011-2012	245.1	537.630	21.09.2011	0.000	534.760	26.01.2012
2012-2013	478.2	539.100	06.08.2012	0.000	534.600	01.02.2013
2013-2014	581.1	539.200	14.06.2013	0.000	534.780	25.02.2014
2014-2015	637.1	539.350	29.07.2014	0.000	534.780	28.03.2015

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

Stage-Discharge Data for the period 2015 - 2016

Station Name : Sonarpal (AGG91F2) **Division : L Godavari Div., Hyderabad**

Local River : Markandi **Sub-Division : Indravathi S D, Jagdalpur**

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	534.500	0.000	535.090	14.05	534.935	13.51	536.320	117.8	535.040	15.38	534.850	5.601 *
2	534.470	0.000	535.135	15.81	534.830	13.50 *	536.360	125.6	535.010	13.10 *	534.830	3.319
3	534.510	0.000	535.100	13.17	534.800	9.970	536.220	115.7	535.000	12.80	534.830	3.746
4	534.500	0.000	535.090	11.87	534.720	7.474	535.815	76.31	535.000	12.59 *	534.810	3.500
5	534.520	0.000	534.970	11.09 *	534.780	8.288	535.465	40.91	534.970	12.09	534.810	3.572
6	534.640	0.000	534.875	12.71	534.735	5.945	535.370	40.90 *	534.940	11.60	534.820	3.600
7	534.800	0.000	534.840	7.463	534.760	6.085	535.255	38.41	534.880	9.253	534.800	3.406
8	534.790	0.000	534.820	6.620	534.740	5.955	535.200	23.00	534.870	9.146	534.800	3.542 *
9	534.770	0.000	534.785	6.468	534.830	5.955 *	535.260	25.44	534.860	9.032	534.800	3.393
10	534.790	0.000	534.808	6.743	534.850	6.998	535.270	26.76	534.850	14.44	534.790	3.350
11	534.760	0.000	534.905	9.668	534.880	8.074	535.125	21.80	534.840	12.44 *	534.790	3.147 *
12	534.780	0.000	534.940	9.648 *	534.930	10.21	535.150	22.79	534.865	11.39	534.780	3.006
13	534.900	0.000	534.958	9.585	535.165	22.35	535.240	26.29 *	534.840	8.693	534.730	2.379
14	534.850	0.000	534.900	8.672	535.710	53.66	535.360	39.51	534.790	10.15	534.680	0.156
15	534.860	0.000	534.990	9.439	535.420	38.61 *	535.395	43.71	534.790	9.267	534.600	0.000
16	535.000	0.000	535.350	20.66	535.200	23.79 *	537.255	356.5	534.800	10.25	534.600	0.000
17	536.008	79.56	535.158	13.95	535.108	18.93	540.460	1093 *	534.800	10.62	534.600	0.000
18	535.368	27.37	535.120	19.05 *	535.080	17.99	537.125	333.3	534.800	10.62 *	534.620	0.000
19	535.210	22.12	535.090	17.36 *	535.040	16.47	536.325	127.7	534.890	8.595	534.548	0.000
20	535.120	17.48	535.100	12.30	534.960	14.43	536.550	155.9 *	534.880	8.629	534.560	0.000
21	537.610	328.5 *	535.348	20.71	534.920	13.33	538.640	505.0	534.850	6.235	534.550	0.000
22	538.000	407.3 *	535.380	35.72 *	534.890	12.22	536.670	153.8	534.820	5.850 *	534.540	0.000
23	536.225	121.9	536.000	90.19 *	534.900	12.22 *	536.080	100.1	534.790	5.516	534.540	0.000
24	535.743	47.19	535.500	44.65 *	534.840	9.784	535.803	63.81	534.810	3.943 *	534.600	0.000
25	535.495	32.72	535.290	29.54 *	534.800	9.253	535.650	56.89 *	534.820	4.350 *	534.700	0.000
26	535.350	22.73	535.140	20.21 *	534.780	8.569	535.465	42.65	534.810	5.715	534.720	0.000
27	535.260	20.32	535.070	14.60	534.783	8.597	535.320	42.64 *	534.700	4.660	534.740	0.000
28	535.110	18.48 *	535.000	12.98	536.400	100.5	535.280	35.39	534.620	3.983	534.750	0.000
29	535.383	26.21	534.990	12.41	535.980	85.62	535.180	23.28	534.770	5.491	534.760	0.000
30	535.230	17.29	534.900	10.77	535.810	71.30 *	535.120	21.24	534.820	4.058	534.760	0.000
31			534.850	10.40	535.705	52.96			534.895	7.590		
-Daily Mean												
Ten-Dai	534.629	0.000	534.951	10.60	534.798	8.367	535.653	63.08	534.942	11.94	534.814	3.703
Ten-Dai	535.086	14.65	535.051	13.03	535.149	22.45	536.398	222.1	534.830	10.06	534.651	0.869
Ten-Da	535.940	104.3	535.224	27.47	535.255	34.94	535.921	104.5	534.791	5.217	534.666	0.000
Monthly												
Min.	534.470	0.000	534.785	6.468	534.720	5.945	535.120	21.24	534.620	3.943	534.540	0.000
Max.	538.000	407.3	536.000	90.19	536.400	100.5	540.460	1093	535.040	15.38	534.850	5.601
Mean	535.218	39.64	535.080	17.37	535.074	22.34	535.991	129.9	534.852	8.951	534.710	1.524

Annual Runoff in MCM = 574 Annual Runoff in mm = 377

Peak Observed Discharge = 505.0 cumecs on 21/09/2015 Corres. Water Level :538.64 m

Lowest Observed Discharge = 0.000 cumecs on 01/06/2015 Corres. Water Level :534.5 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

Stage-Discharge Data for the period 2015 - 2016

Station Name : Sonarpal (AGG91F2) **Division : L Godavari Div., Hyderabad**

Local River : Markandi **Sub-Division : Indravathi S D, Jagdalpur**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	534.750	0.000	534.740	0.000	534.700	0.000	534.830	0.000	534.830	0.000	534.850	0.000
2	534.770	0.000	534.730	0.000	534.700	0.000	534.800	0.000	534.830	0.000	534.840	0.000
3	534.750	0.000	534.730	0.000	534.700	0.000	534.780	0.000	534.790	0.000	534.840	0.000
4	534.750	0.000	534.700	0.000	534.720	0.000	534.770	0.000	534.840	0.000	534.840	0.000
5	534.750	0.000	534.700	0.000	534.710	0.000	534.780	0.000	534.810	0.000	534.780	0.000
6	534.750	0.000	534.690	0.000	534.690	0.000	534.780	0.000	534.750	0.000	534.750	0.000
7	534.750	0.000	534.670	0.000	534.690	0.000	534.770	0.000	534.720	0.000	534.750	0.000
8	534.750	0.000	534.670	0.000	534.670	0.000	534.760	0.000	534.720	0.000	534.750	0.000
9	534.750	0.000	534.700	0.000	534.660	0.000	534.740	0.000	534.710	0.000	534.750	0.000
10	534.740	0.000	534.750	0.000	534.650	0.000	534.740	0.000	534.720	0.000	534.750	0.000
11	534.740	0.000	534.750	0.000	534.650	0.000	534.780	0.000	534.720	0.000	534.750	0.000
12	534.740	0.000	534.750	0.000	534.650	0.000	534.780	0.000	534.720	0.000	534.750	0.000
13	534.810	0.000	534.750	0.000	534.640	0.000	534.800	0.000	534.710	0.000	534.800	0.000
14	534.790	0.000	534.750	0.000	534.640	0.000	534.800	0.000	534.700	0.000	534.850	0.000
15	534.780	0.000	534.760	0.000	534.640	0.000	534.820	0.000	534.700	0.000	534.950	0.000
16	534.770	0.000	534.760	0.000	534.600	0.000	534.860	0.000	534.690	0.000	534.950	0.000
17	534.770	0.000	534.760	0.000	534.600	0.000	534.890	0.000	534.730	0.000	534.920	0.000
18	534.770	0.000	534.750	0.000	534.560	0.000	534.860	0.000	534.760	0.000	534.870	0.000
19	534.770	0.000	534.730	0.000	534.530	0.000	534.850	0.000	534.770	0.000	534.840	0.000
20	534.770	0.000	534.680	0.000	534.590	0.000	534.800	0.000	534.780	0.000	534.810	0.000
21	534.760	0.000	534.640	0.000	534.700	0.000	534.800	0.000	534.800	0.000	534.720	0.000
22	534.750	0.000	534.710	0.000	534.760	0.000	534.780	0.000	534.800	0.000	534.670	0.000
23	534.750	0.000	534.720	0.000	534.800	0.000	534.780	0.000	534.810	0.000	534.640	0.000
24	534.750	0.000	534.700	0.000	534.800	0.000	534.760	0.000	534.840	0.000	534.620	0.000
25	534.750	0.000	534.700	0.000	534.780	0.000	534.760	0.000	534.850	0.000	534.580	0.000
26	534.750	0.000	534.710	0.000	534.780	0.000	534.750	0.000	534.840	0.000	534.580	0.000
27	534.750	0.000	534.710	0.000	534.820	0.000	534.730	0.000	534.850	0.000	534.580	0.000
28	534.750	0.000	534.700	0.000	534.850	0.000	534.720	0.000	534.850	0.000	534.580	0.000
29	534.750	0.000	534.700	0.000	534.840	0.000	534.680	0.000	534.850	0.000	534.560	0.000
30	534.740	0.000	534.700	0.000			534.650	0.000	534.850	0.000	534.540	0.000
31	534.740	0.000	534.700	0.000			534.750	0.000			534.540	0.000
-Daily M												
Ten-Dai	534.751	0.000	534.708	0.000	534.689	0.000	534.775	0.000	534.772	0.000	534.790	0.000
Ten-Dai	534.771	0.000	534.744	0.000	534.610	0.000	534.824	0.000	534.728	0.000	534.849	0.000
Ten-Da	534.749	0.000	534.699	0.000	534.792	0.000	534.742	0.000	534.834	0.000	534.601	0.000
Monthly												
Min.	534.740	0.000	534.640	0.000	534.530	0.000	534.650	0.000	534.690	0.000	534.540	0.000
Max.	534.810	0.000	534.760	0.000	534.850	0.000	534.890	0.000	534.850	0.000	534.950	0.000
Mean	534.757	0	534.716	0	534.694	0	534.779	0	534.778	0	534.742	0

Peak Computed Discharge = 1093 cumecs on 17/09/2015 Corres. Water Level :540.46 m

Lowest Computed Discharge = 3.147 cumecs on 11/11/2015 Corres. Water Level :534.79 m

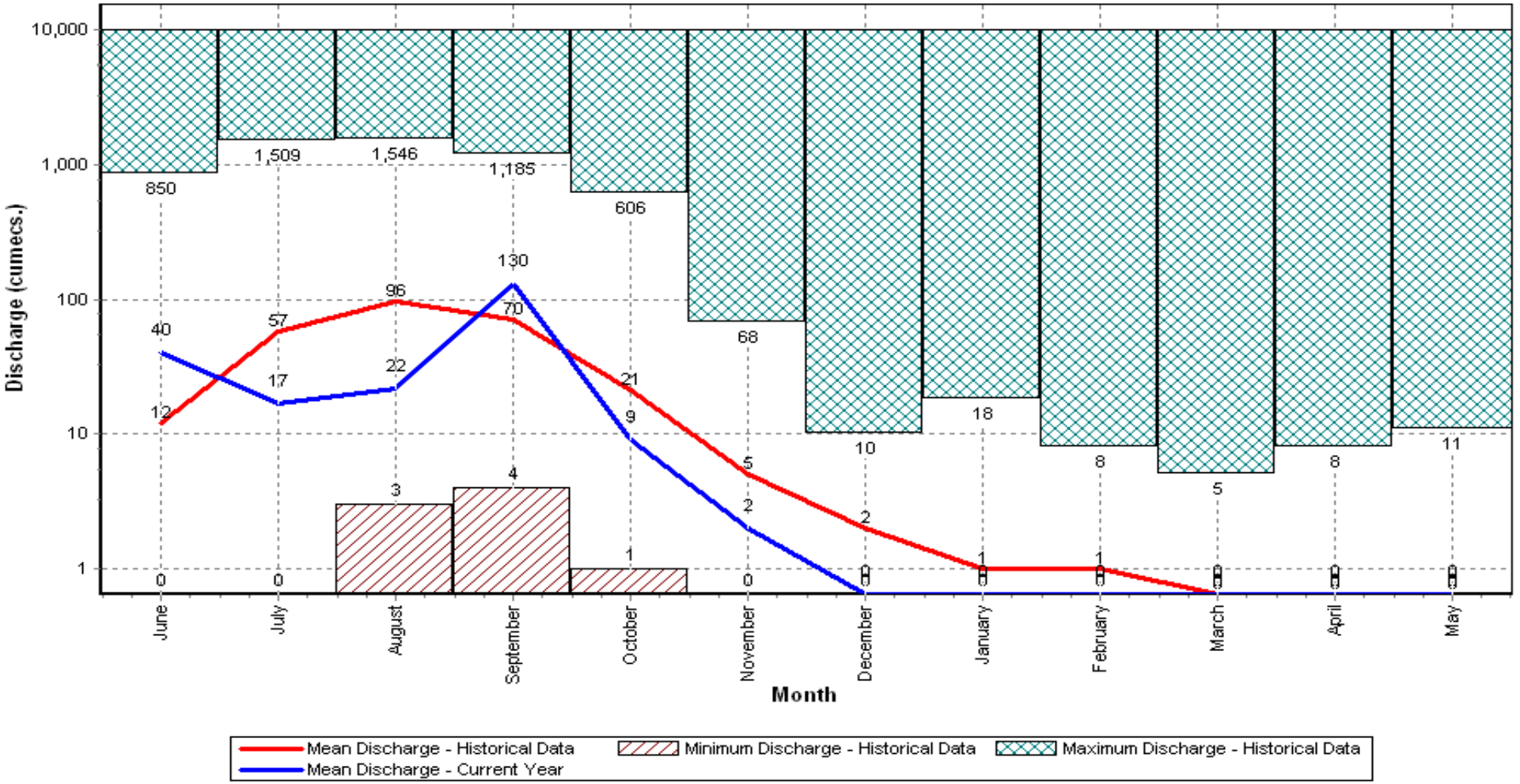
Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016

Station Name : Sonarpal (AGG91F2) | **Data considered : 1992-2016** | **Division : L Godavari Div., Hyderabad**

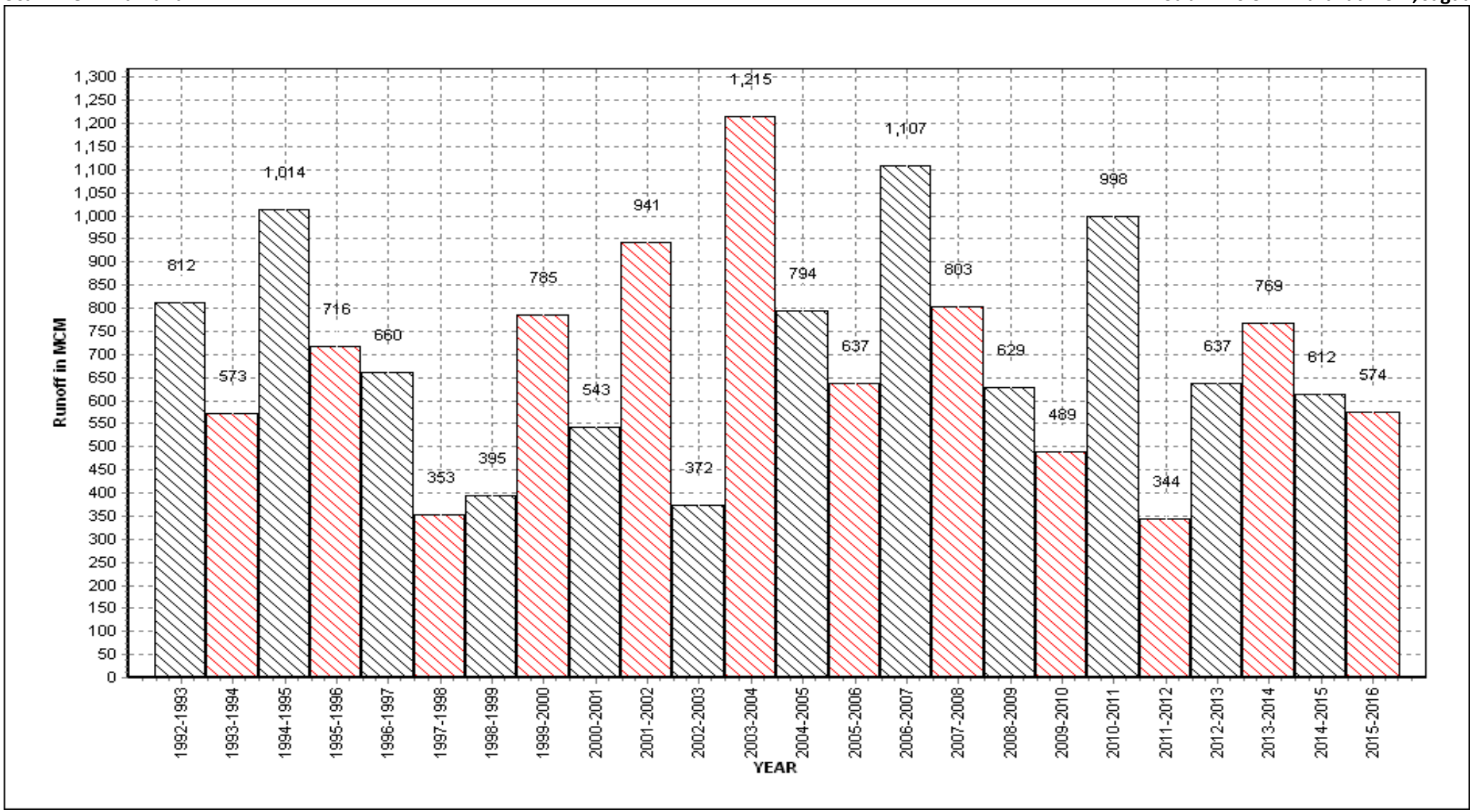
Local River : Markandi | **Sub-Division : Indravathi S D, Jagdalpur**



Annual Runoff Values for the period: 1992 - 2016

Station Name : Sonarpal (AGG91F2) **Division : L Godavari Div., Hyderabad**

Local River : Markandi **Sub-Division : Indravathi S D, Jagdalpur**

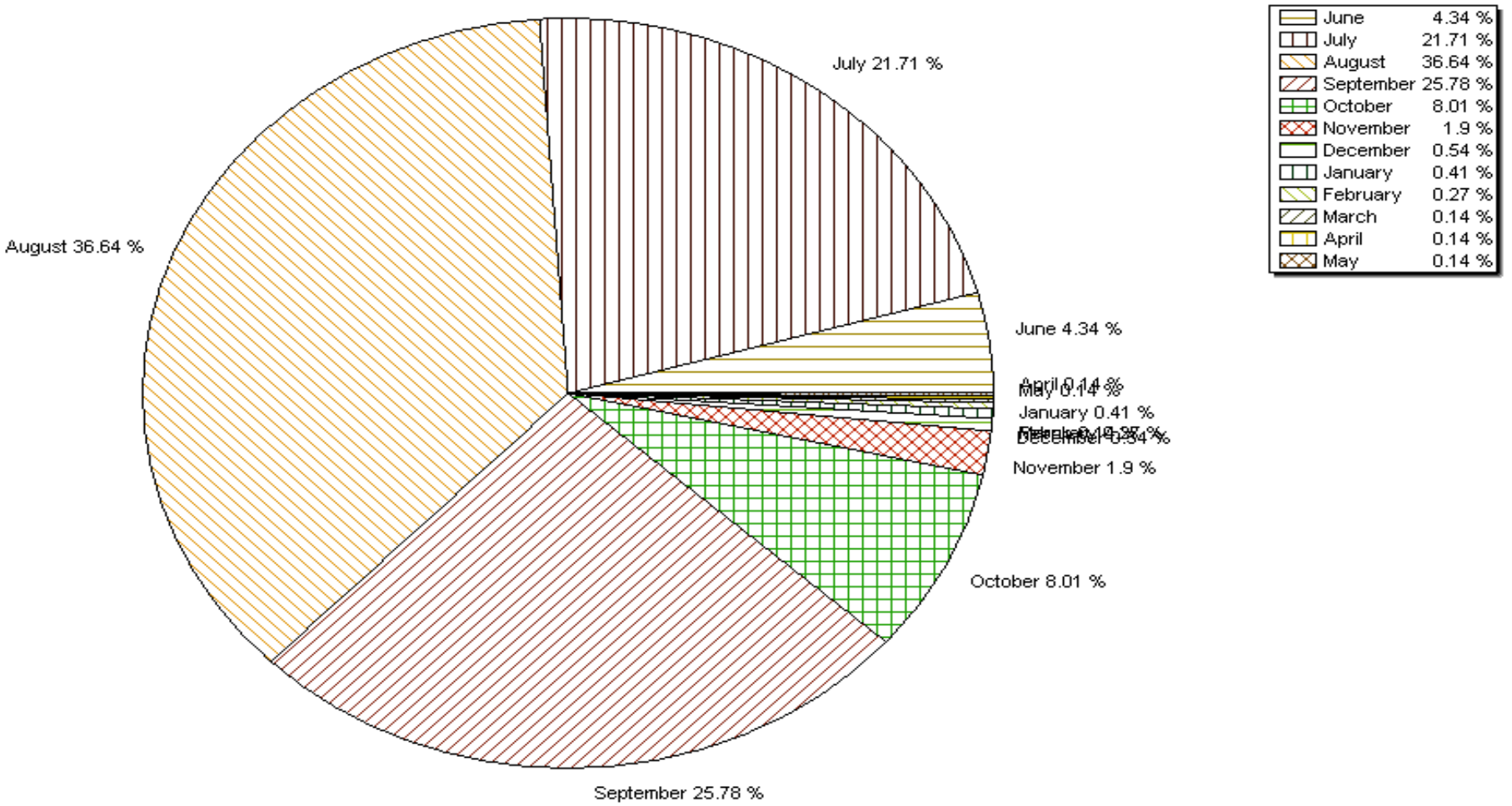


Note: Missing values have not been considered while arriving at Annual Runoff

Monthly Average Runoff based on period : 1992-2015

Station Name : Sonarpal (AGG91F2)
Local River : Markandi

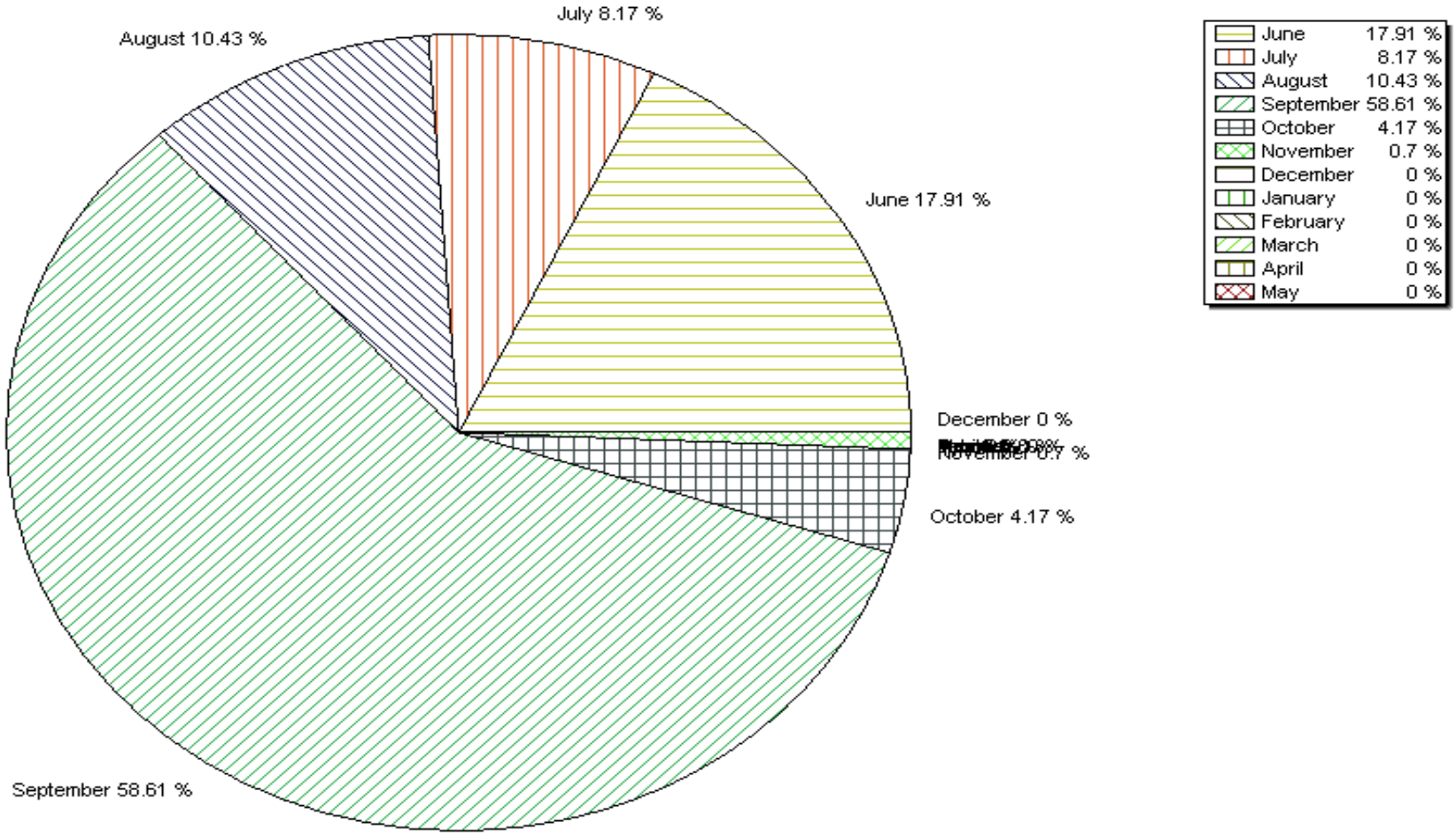
Division : L Godavari Div., Hyderabad
Sub-Division : Indravathi S D, Jagdalpur



Monthly Runoff for the Year : 2015-2016

Station Name : Sonarpal (AGG91F2)
Local River : Markandi

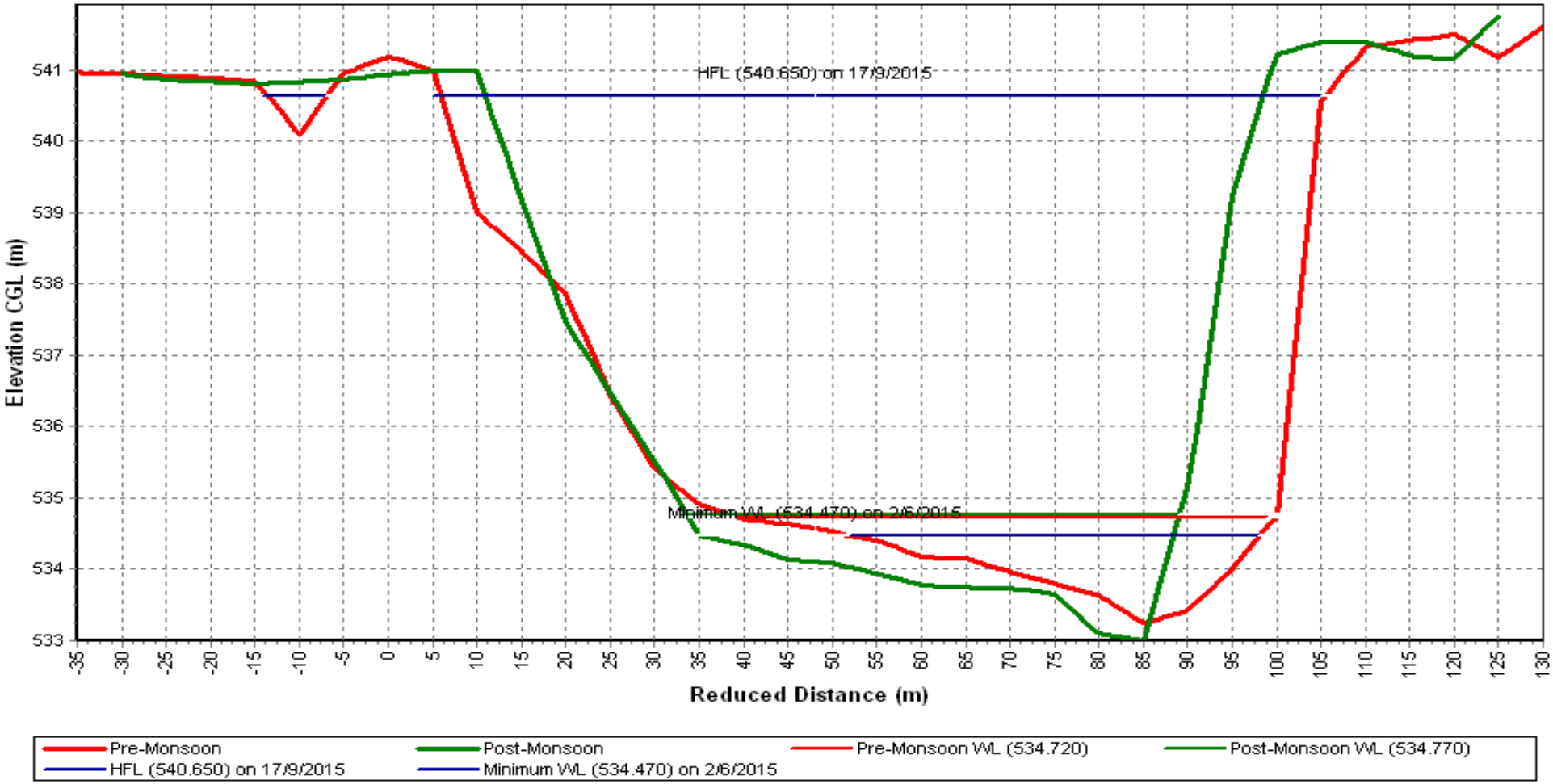
Division : L Godavari Div., Hyderabad
Sub-Division : Indravathi S D, Jagdalpur



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

Station Name : Sonarpal (AGG91F2) **Division : L Godavari Div., Hyderabad**

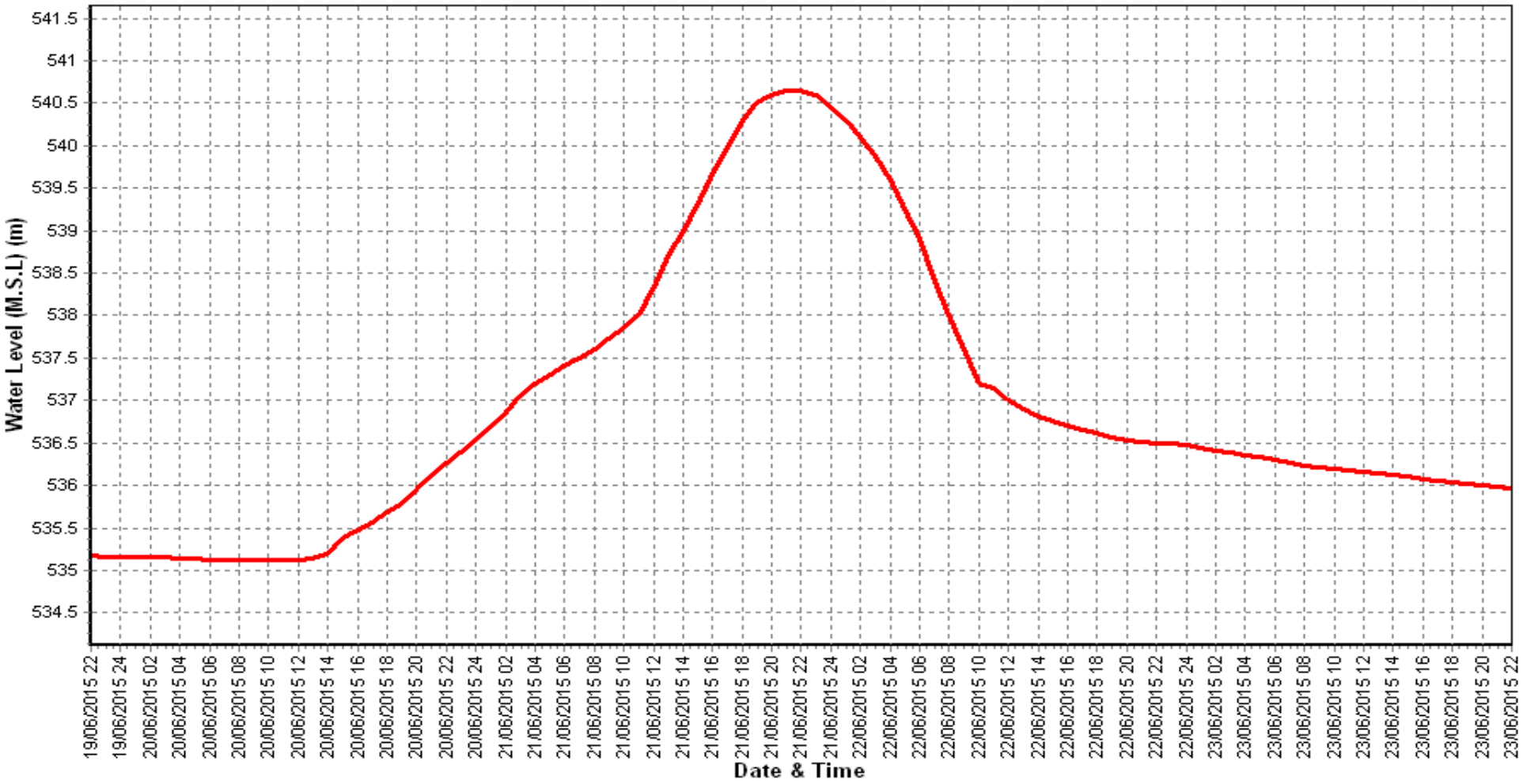
Local River : Markandi **Sub-Division : Indravathi S D, Jagdalpur**



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

Station Name : Sonarpal (AGG91F2) **Division : L Godavari Div., Hyderabad**

Local River : Markandi **Sub-Division : Indravathi S D, Jagdalpur**

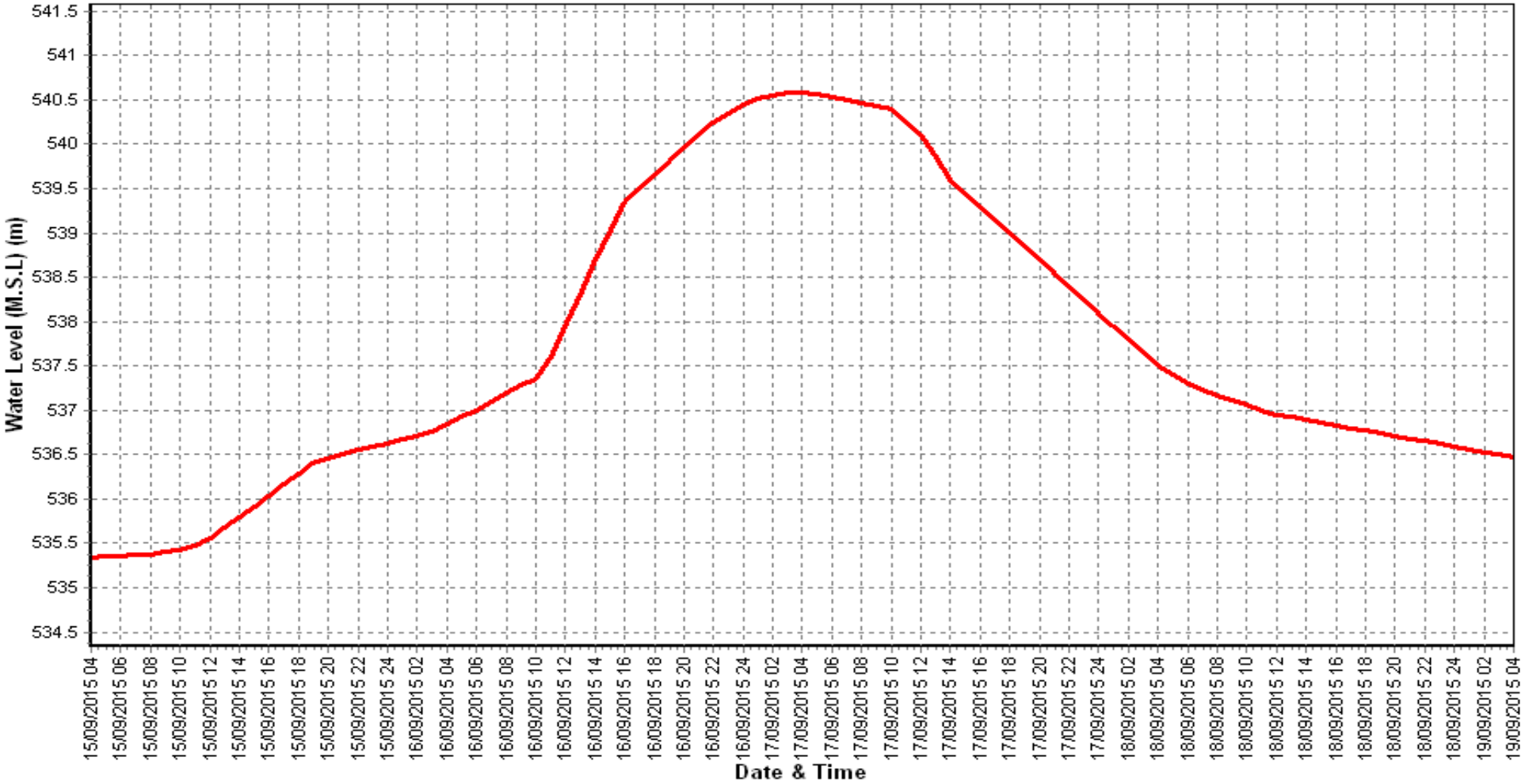


Time Span: 96 Hrs

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

Station Name : Sonarpal (AGG91F2) **Division : L Godavari Div., Hyderabad**

Local River : Markandi **Sub-Division : Indravathi S D, Jagdalpur**

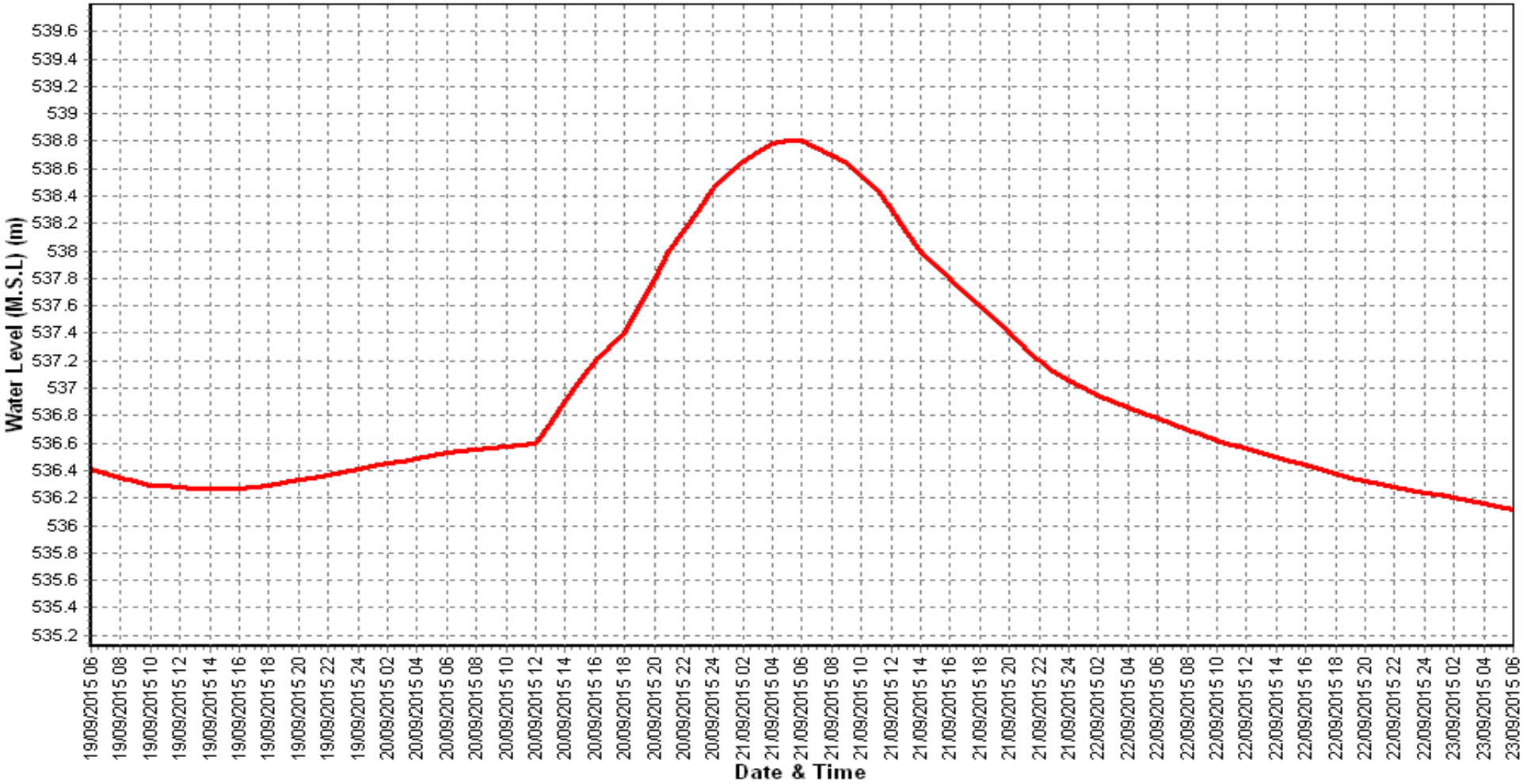


Time Span: 96 Hrs

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

Station Name : Sonarpal (AGG91F2) **Division : L Godavari Div., Hyderabad**

Local River : Markandi **Sub-Division : Indravathi S D, Jagdalpur**



Time Span: 96 Hrs

HISTORY SHEET

Water Year : 2015-2016

Site	**: Jagdalpur**		**Code**	**: AGG00R9**	
State	: Chhattisgarh		District	Bastar	
Basin	: Godavari		Independent River	: Godavari	
Tributary	: Indravathi		Sub Tributary	: -	
Sub-Sub Tributary	: -		Local River	: Indravathi	
Division	: Lower Godavari Div., Hyderabad		Sub-Division	: Indravati SD, Jagdalpur	
Drainage Area	: 7380 Sq. Km.		Bank	: Left	
Latitude	: 19°06'30"		Longitude	: 82°01'30"	
Zero of Gauge (m)	: 544.595 (m.s.l) 532.507 (m.s.l) 532.5 (m.s.l) 532.501 (m.s.l)		04.08.1964 01.01.1965 01.06.1968 01.06.1970	- 31.12.1964 - 31.05.1968 - 31.05.1970	
	Opening Date		Closing Date		
Gauge	: 04.08.1964		**HFL During 2015-16**	**: 543.031**	
			Corres. Discharge	**: 2873.051 Cumes(Estimated)**	
Discharge	: 21.09.1965		**Date & Time of**	**: 18.09.2015**	
			Occurance	**: 02:00 hrs.**	
Sediment	: 21.09.1965				
Water Quality	: 01.12.1979				

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

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1965-1966	935.7	537.937	29.07.1965	4.760	533.622	27.05.1966
1966-1967	2940	544.397	06.09.1966	6.287	533.622	01.06.1966
1967-1968	2313	543.107	04.08.1967	6.150	533.677	09.06.1967
1968-1969	2315	541.530	05.10.1968	10.00	533.885	22.04.1969
1969-1970	2889	544.340	30.07.1969	9.600	533.865	03.06.1969
1970-1971	1985	542.291	29.08.1970	13.85	533.861	10.05.1971
1971-1972	1284	540.976	06.09.1971	8.700	533.834	25.05.1972
1972-1973	1924	542.551	13.09.1972	7.483	533.791	16.06.1972
1973-1974	2462	544.491	09.07.1973	8.587	533.846	02.06.1973
1974-1975	974.8	539.096	18.06.1974	5.800	533.696	21.05.1975
1975-1976	1730	541.176	14.08.1975	8.970	533.921	10.05.1976
1976-1977	2499	543.186	22.07.1976	9.585	533.893	02.06.1976
1977-1978	2337	543.011	14.09.1977	11.40	534.026	07.06.1977
1978-1979	3175	544.331	17.08.1978	8.951	533.901	29.05.1979
1979-1980	2191	542.401	26.06.1979	6.148	533.711	27.05.1980
1980-1981	2032	541.811	19.09.1980	7.500	533.771	26.05.1981
1981-1982	2366	542.236	10.08.1981	6.859	533.741	07.05.1982
1982-1983	1468	540.649	14.08.1982	5.934	533.711	08.05.1983
1983-1984	1336	540.651	27.06.1983	4.694	533.656	27.05.1984

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**
1984-1985	2262	543.071	03.08.1984	7.100	533.761	01.05.1985
1985-1986	1591	540.336	18.08.1985	8.100	533.831	11.04.1986
1986-1987	3109	544.551	15.08.1986	5.781	533.721	19.05.1987
1987-1988	1186	539.936	05.09.1987	4.800	533.671	15.04.1988
1988-1989	932.1	538.826	19.07.1988	3.632	533.651	31.05.1989
1989-1990	1256	540.261	31.08.1989	3.622	533.646	01.06.1989
1990-1991	2019	542.111	07.10.1990	9.119	533.821	21.05.1991
1991-1992	2407	542.851	31.07.1991	4.904	533.786	27.05.1992
1992-1993	2956	543.801	29.07.1992	3.177	533.781	09.05.1993
1993-1994	1397	540.226	16.07.1993	1.904	533.616	14.05.1994
1994-1995	2675	544.031	06.09.1994	1.880	534.651	01.05.1995
1995-1996	2089	542.791	02.09.1995	0.133	534.601	14.06.1995
1996-1997	1190	540.306	22.07.1996	2.313	533.621	29.05.1997
1997-1998	1084	539.471	22.08.1997	1.377	533.611	10.06.1997
1998-1999	994.5	539.381	12.07.1998	0.265	533.441	26.03.1999
1999-2000	962.8	538.851	09.08.1999	0.583	533.501	17.05.2000
2000-2001	1518	541.096	31.08.2000	1.275	533.531	30.03.2001
2001-2002	2115	542.791	21.08.2001	1.216	534.261	25.05.2002
2002-2003	1511	540.751	24.08.2002	1.288	533.621	26.05.2003
2003-2004	1696	541.471	29.08.2003	0.824	533.651	10.06.2003
2004-2005	1641	541.401	15.06.2004	1.495	533.641	23.05.2005
2005-2006	1470	540.711	14.09.2005	1.701	533.666	20.06.2005
2006-2007	2113	543.371	05.07.2006	1.524	533.731	22.03.2007
2007-2008	1737	541.991	08.08.2007	0.433	533.701	19.05.2008
2008-2009	1152	540.281	11.08.2008	0.817	533.581	24.04.2009
2009-2010	831.6	538.631	27.08.2009	1.427	533.571	21.04.2010
2010-2011	2231	543.701	07.08.2010	0.000	533.601	03.02.2011
2011-2012	916.4	539.201	02.09.2011	0.000	534.981	05.05.2012
2012-2013	1452	540.861	06.08.2012	0.000	534.661	14.02.2013
2013-2014	1688	542.011	15.06.2013	0.000	534.451	08.02.2014
2014-2015	1149	540.601	22.07.2014	0.000	534.521	29.03.2015

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

Stage-Discharge Data for the period 2015 - 2016

Station Name : Jagdalpur (AGG00R9) **Division : Lower Godavari Div., Hyderabad**

Local River : Indravathi **Sub-Division : Indravati SD, Jagdalpur**

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	534.441	0.000	535.581	99.12	534.661	0.000	537.086	401.4	535.516	80.76 #	535.071	0.000
2	534.451	0.000	535.301	54.01 #	534.631	0.000	537.651	541.9 *	535.441	70.94 *	535.071	0.000
3	534.491	0.000	535.131	36.03 #	534.621	0.000	537.201	403.5	535.466	74.16 #	535.071	0.000
4	534.451	0.000	535.211	44.13 #	534.611	0.000	536.441	279.0	535.501	78.76 *	535.061	0.000
5	534.511	0.000	535.121	35.06 *	534.611	0.000	535.941	149.5	535.411	67.16 #	535.061	0.000
6	534.601	0.000	534.986	23.09 #	534.601	0.000	535.791	121.0 *	535.346	50.53	535.051	0.000
7	534.611	0.000	534.861	0.000	534.591	0.000	535.691	109.9	535.291	52.28	535.051	0.000
8	534.621	0.000	534.781	0.000	534.581	0.000	535.851	144.0	535.251	47.48	534.941	0.000
9	534.621	0.000	534.731	0.000	534.591	0.000	535.691	109.1	535.221	45.19 #	534.871	0.000
10	534.591	0.000	534.701	0.000	534.621	0.000	535.781	121.0	535.181	41.02 #	534.951	0.000
11	534.551	0.000	534.711	0.000	534.761	0.000	535.521	74.80	535.101	33.16 *	535.011	0.000
12	534.521	0.000	534.751	0.000	534.831	0.000	535.391	66.18	535.046	28.39	535.011	0.000
13	534.561	0.000	534.811	0.000	535.076	30.85 #	535.541	84.15 *	534.991	0.000	535.011	0.000
14	535.041	0.000	534.981	0.000	537.291	475.0	535.556	80.02	534.951	0.000	535.011	0.000
15	535.041	0.000	534.961	0.000	536.421	236.1 *	535.696	113.5	534.921	0.000	535.001	0.000
16	535.121	0.000	535.546	71.72	535.771	117.8 *	540.451	1572 *	534.911	0.000	535.001	0.000
17	535.901	161.6	535.741	127.1	535.801	128.6	541.911	2270 *	534.881	0.000	535.001	0.000
18	535.871	114.1	535.741	113.2 *	536.031	144.8	542.991	2851 *	534.861	0.000	535.001	0.000
19	535.406	66.54 #	535.451	72.22 *	535.981	142.8	541.131	1885 *	534.841	0.000	535.001	0.000
20	535.191	42.52	535.271	50.63 *	535.741	107.4	538.221	716.1 *	534.911	0.000	534.991	0.000
21	536.081	170.2 *	535.271	50.63 *	535.631	94.54	540.561	1621 *	535.151	0.000	534.991	0.000
22	539.961	1362 *	535.241	47.34 *	535.611	93.02	540.811	1735 *	535.161	0.000	534.991	0.000
23	537.386	431.7	535.441	70.94 *	535.771	117.8 *	537.931	625.1 *	535.161	0.000	534.981	0.000
24	536.176	195.9	535.961	149.3	535.586	94.65	536.776	257.9	535.151	0.000	534.981	0.000
25	535.601	89.84	535.601	104.1	535.571	81.86	536.431	238.2 *	535.151	0.000	534.971	0.000
26	535.376	61.20	535.371	62.25 *	535.411	53.73	536.181	188.7 #	535.141	0.000	534.971	0.000
27	535.256	59.91	535.256	51.30	535.361	51.87	536.041	163.0 *	535.141	0.000	534.971	0.000
28	535.121	35.06 *	535.171	39.44	536.981	375.8	535.886	136.4 #	535.131	0.000	534.951	0.000
29	534.996	30.24	535.021	30.70	537.326	468.5	535.741	113.2 #	535.131	0.000	534.911	0.000
30	535.011	25.15 #	534.841	0.000	537.221	423.7 *	535.596	91.79 #	535.101	0.000	534.881	0.000
31			534.711	0.000	536.646	313.0			535.081	0.000		
Daily Mean												
Ten-Dai	534.539	0.000	535.041	29.14	534.612	0.000	536.313	238.0	535.362	60.83	535.020	0.000
Ten-Dai	535.120	38.47	535.196	43.49	535.771	138.3	538.241	971.3	534.941	6.156	535.004	0.000
Ten-Da	536.096	246.1	535.262	55.09	536.102	197.1	537.196	517.1	535.136	0.000	534.960	0.000
Monthly												
Min.	534.441	0.000	534.701	0.000	534.581	0.000	535.391	66.18	534.841	0.000	534.871	0.000
Max.	539.961	1362	535.961	149.3	537.326	475.0	542.991	2851	535.516	80.76	535.071	0.000
Mean	535.252	94.85	535.170	42.98	535.514	114.6	537.250	575.4	535.146	21.61	534.995	0

Annual Runoff in MCM = 2217 Annual Runoff in mm = 300

Peak Observed Discharge = 475.0 cumecs on 14/08/2015 Corres. Water Level :537.291 m

Lowest Observed Discharge = 0.000 cumecs on 01/06/2015 Corres. Water Level :534.441 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 : Jagdalpur (AGG00R9) **Division : Lower Godavari Div., Hyderabad**

Local River : Indravathi **Sub-Division : Indravati SD, Jagdalpur**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	534.851	0.000	534.721	0.000	534.561	0.000	534.801	0.000	534.871	0.000	535.131	0.000
2	534.851	0.000	534.711	0.000	534.571	0.000	534.741	0.000	534.891	0.000	535.131	0.000
3	534.911	0.000	534.691	0.000	534.591	0.000	534.621	0.000	534.921	0.000	535.141	0.000
4	534.961	0.000	534.661	0.000	534.621	0.000	534.621	0.000	534.931	0.000	535.151	0.000
5	535.001	0.000	534.631	0.000	534.651	0.000	534.701	0.000	534.941	0.000	535.161	0.000
6	535.011	0.000	534.611	0.000	534.721	0.000	534.731	0.000	534.921	0.000	535.171	0.000
7	535.031	0.000	534.591	0.000	534.771	0.000	534.591	0.000	534.891	0.000	535.211	0.000
8	535.041	0.000	534.571	0.000	534.831	0.000	534.581	0.000	534.851	0.000	535.191	0.000
9	535.021	0.000	534.551	0.000	534.881	0.000	534.571	0.000	534.841	0.000	535.181	0.000
10	535.001	0.000	534.541	0.000	534.941	0.000	534.561	0.000	534.831	0.000	535.171	0.000
11	535.001	0.000	534.541	0.000	534.991	0.000	534.561	0.000	534.991	0.000	535.201	0.000
12	535.011	0.000	534.531	0.000	535.041	0.000	534.551	0.000	535.051	0.000	535.191	0.000
13	535.011	0.000	534.531	0.000	535.031	0.000	534.551	0.000	535.061	0.000	535.231	0.000
14	535.011	0.000	534.531	0.000	535.011	0.000	534.541	0.000	535.101	0.000	535.221	0.000
15	535.021	0.000	534.521	0.000	535.011	0.000	534.541	0.000	535.101	0.000	535.221	0.000
16	535.021	0.000	534.521	0.000	534.991	0.000	534.571	0.000	535.021	0.000	535.221	0.000
17	535.001	0.000	534.521	0.000	534.941	0.000	534.541	0.000	535.071	0.000	535.221	0.000
18	534.991	0.000	534.521	0.000	534.881	0.000	534.521	0.000	535.071	0.000	535.211	0.000
19	534.971	0.000	534.521	0.000	534.821	0.000	534.521	0.000	535.081	0.000	535.201	0.000
20	534.971	0.000	534.521	0.000	534.771	0.000	534.541	0.000	535.081	0.000	535.191	0.000
21	534.971	0.000	534.511	0.000	534.721	0.000	534.541	0.000	535.081	0.000	535.171	0.000
22	534.971	0.000	534.511	0.000	534.711	0.000	534.561	0.000	535.071	0.000	535.161	0.000
23	534.961	0.000	534.491	0.000	534.721	0.000	534.581	0.000	535.081	0.000	535.151	0.000
24	534.961	0.000	534.491	0.000	534.731	0.000	534.611	0.000	535.081	0.000	535.161	0.000
25	534.961	0.000	534.491	0.000	534.731	0.000	534.641	0.000	535.091	0.000	535.171	0.000
26	534.951	0.000 *	534.491	0.000	534.741	0.000	534.671	0.000	535.111	0.000	535.151	0.000
27	534.941	0.000	534.501	0.000	534.761	0.000	534.701	0.000	535.031	0.000	535.141	0.000
28	534.921	0.000	534.601	0.000	534.771	0.000	534.741	0.000	535.081	0.000	535.131	0.000 *
29	534.891	0.000	534.611	0.000	534.781	0.000	534.781	0.000	535.141	0.000	535.121	0.000
30	534.831	0.000	534.521	0.000			534.811	0.000	535.171	0.000	535.121	0.000
31	534.751	0.000	534.551	0.000			534.841	0.000			535.121	0.000
Daily M												
Ten-Dai	534.968	0.000	534.628	0.000	534.714	0.000	534.652	0.000	534.889	0.000	535.164	0.000
Ten-Dai	535.001	0.000	534.526	0.000	534.949	0.000	534.544	0.000	535.063	0.000	535.211	0.000
Ten-Da	534.919	0.000	534.525	0.000	534.741	0.000	534.680	0.000	535.094	0.000	535.146	0.000
Monthly												
Min.	534.751	0.000	534.491	0.000	534.561	0.000	534.521	0.000	534.831	0.000	535.121	0.000
Max.	535.041	0.000	534.721	0.000	535.041	0.000	534.841	0.000	535.171	0.000	535.231	0.000
Mean	534.961	0	534.558	0	534.803	0	534.627	0	535.015	0	535.173	0

Peak Computed Discharge = 2851 cumecs on 18/09/2015 Corres. Water Level :542.991 m

Lowest Computed Discharge = 0.000 cumecs on 26/12/2015 Corres. Water Level :534.951 m

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

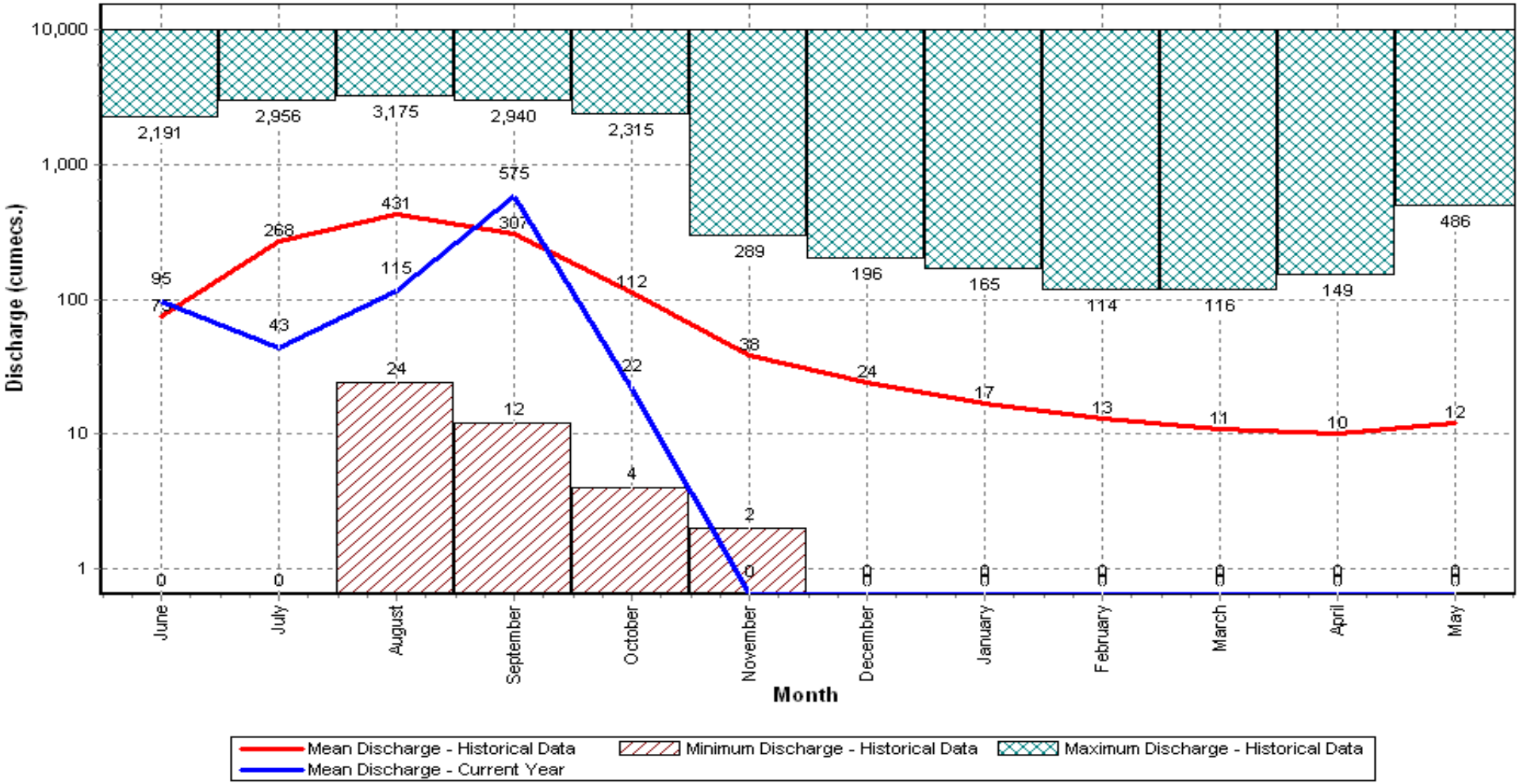
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016

Station Name : Jagdalpur (AGG00R9) | **Data considered : 1965-2016** | **Division : Lower Godavari Div., Hyderabad**

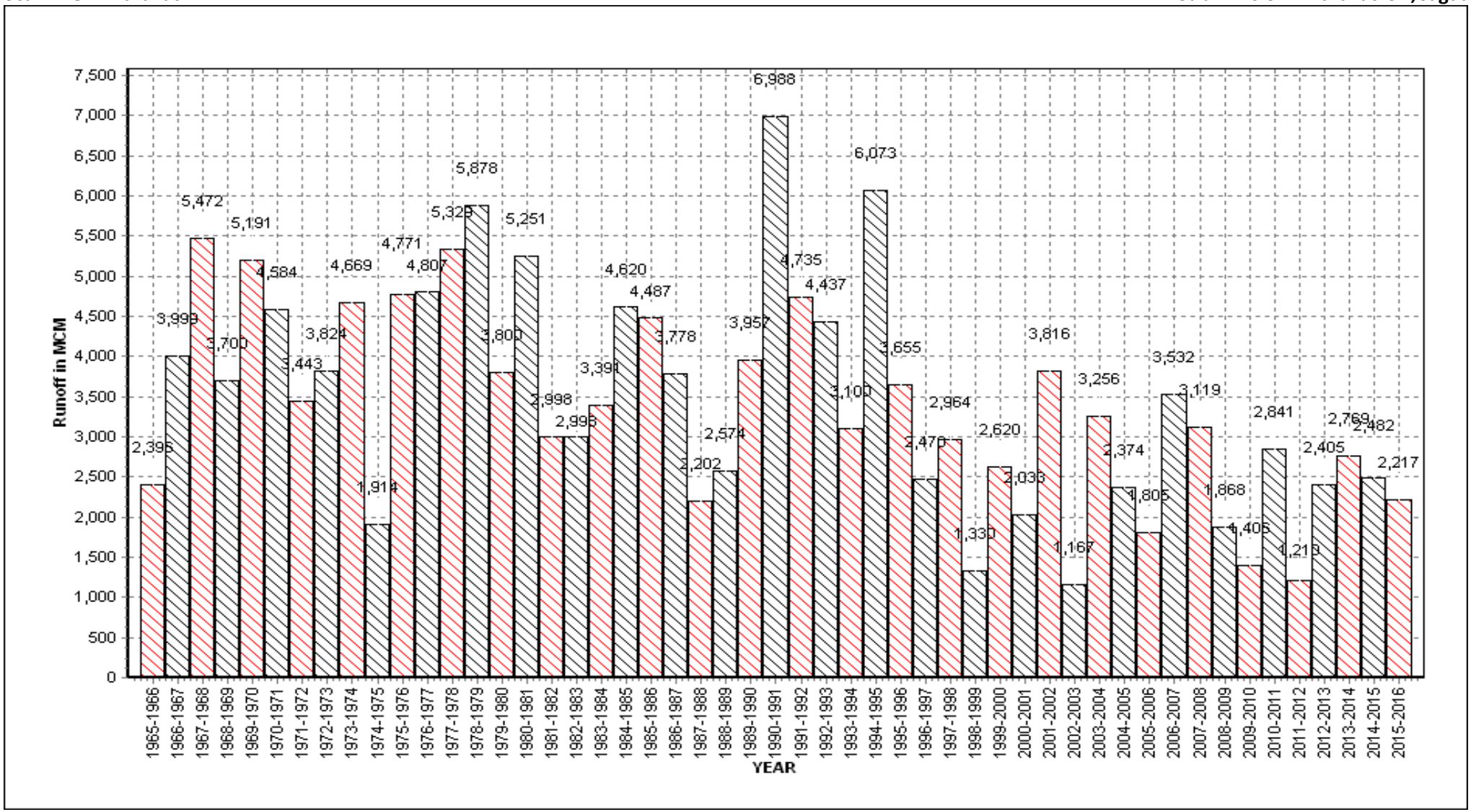
Local River : Indravathi | **Sub-Division : Indravati SD, Jagdalpur**



Annual Runoff Values for the period: 1965 - 2016

Station Name : Jagdalpur (AGG00R9) **Division : Lower Godavari Div., Hyderabad**

Local River : Indravathi **Sub-Division : Indravati SD, Jagdalpur**



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

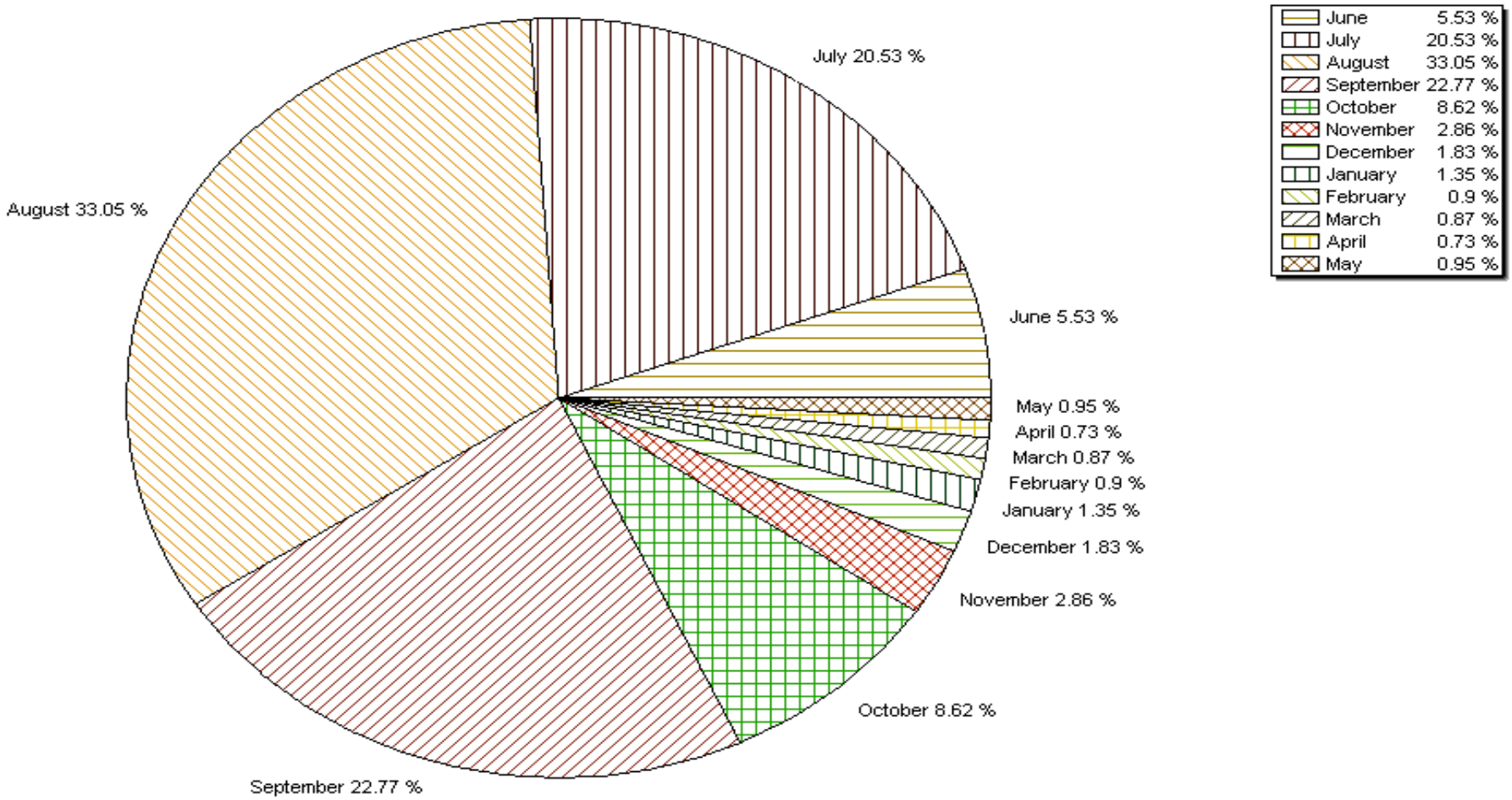
Monthly Average Runoff based on period : 1965-2015

Station Name : Jagdalpur (AGG00R9)

Local River : Indravathi

Division : Lower Godavari Div., Hyderabad

Sub-Division : Indravati SD, Jagdalpur



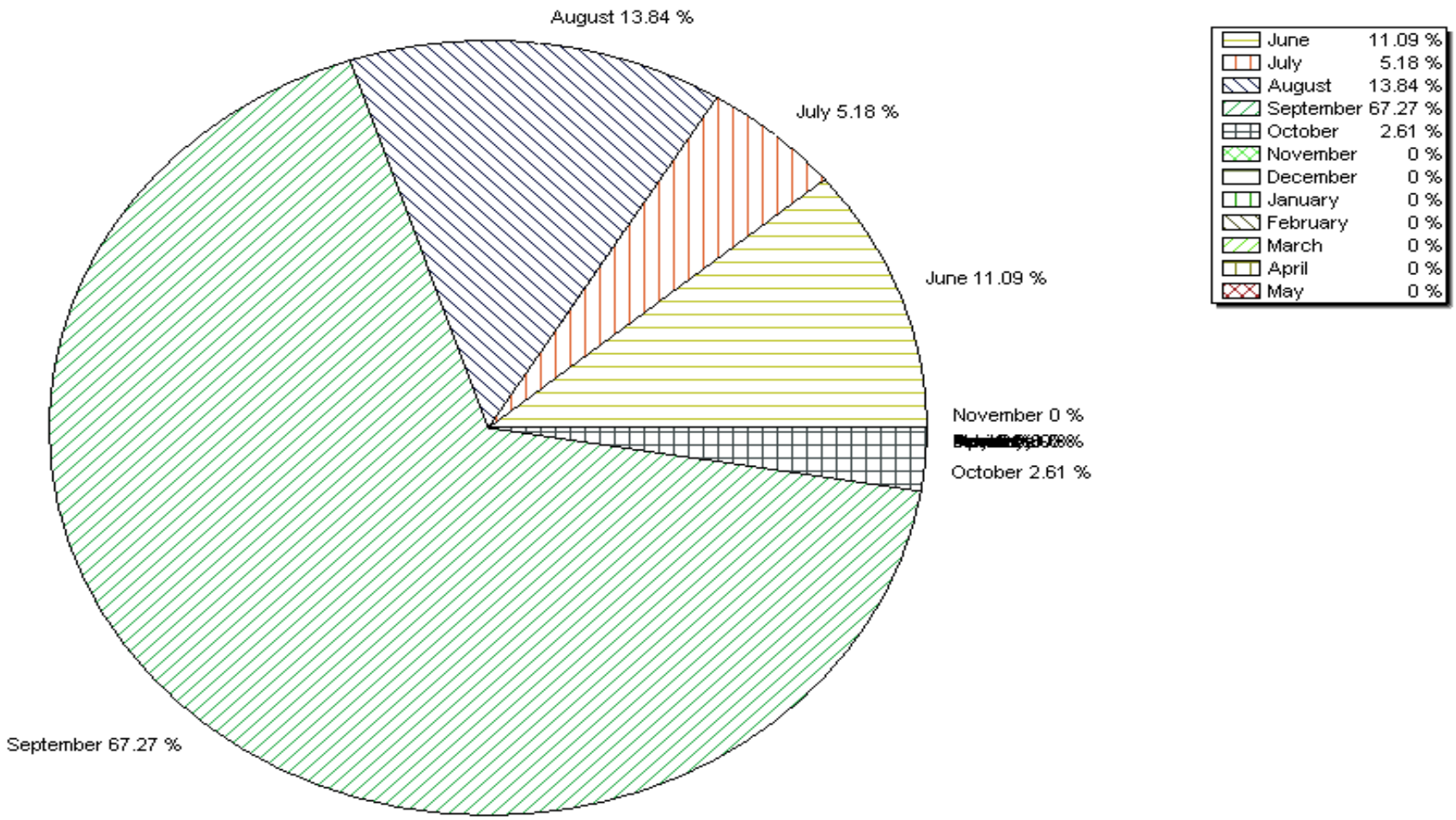
Monthly Runoff for the Year : 2015-2016

Station Name : Jagdalpur (AGG00R9)

Local River : Indravathi

Division : Lower Godavari Div., Hyderabad

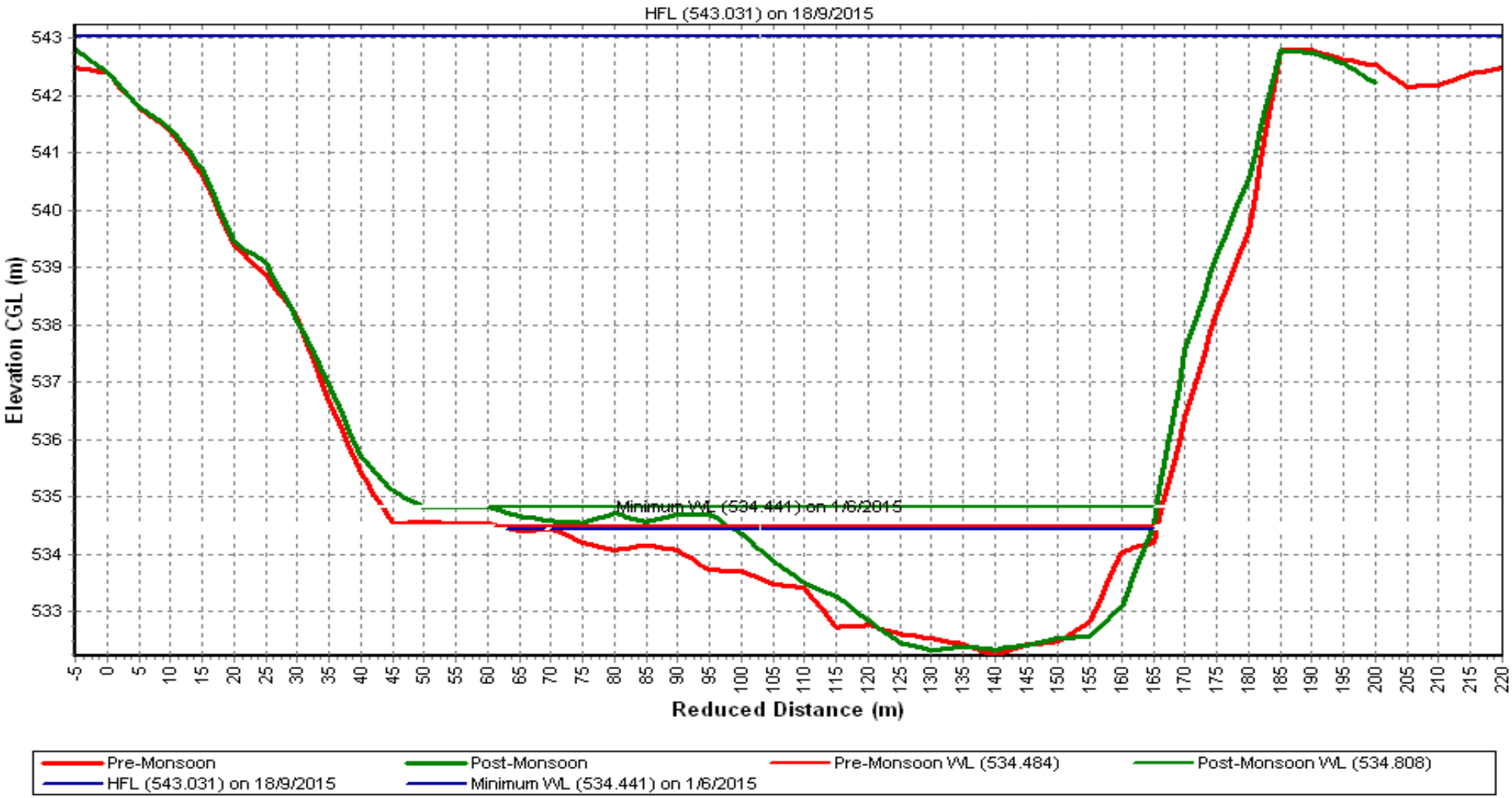
Sub-Division : Indravati SD, Jagdalpur



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

Station Name : Jagdalpur (AGG00R9) **Division : Lower Godavari Div., Hyderabad**

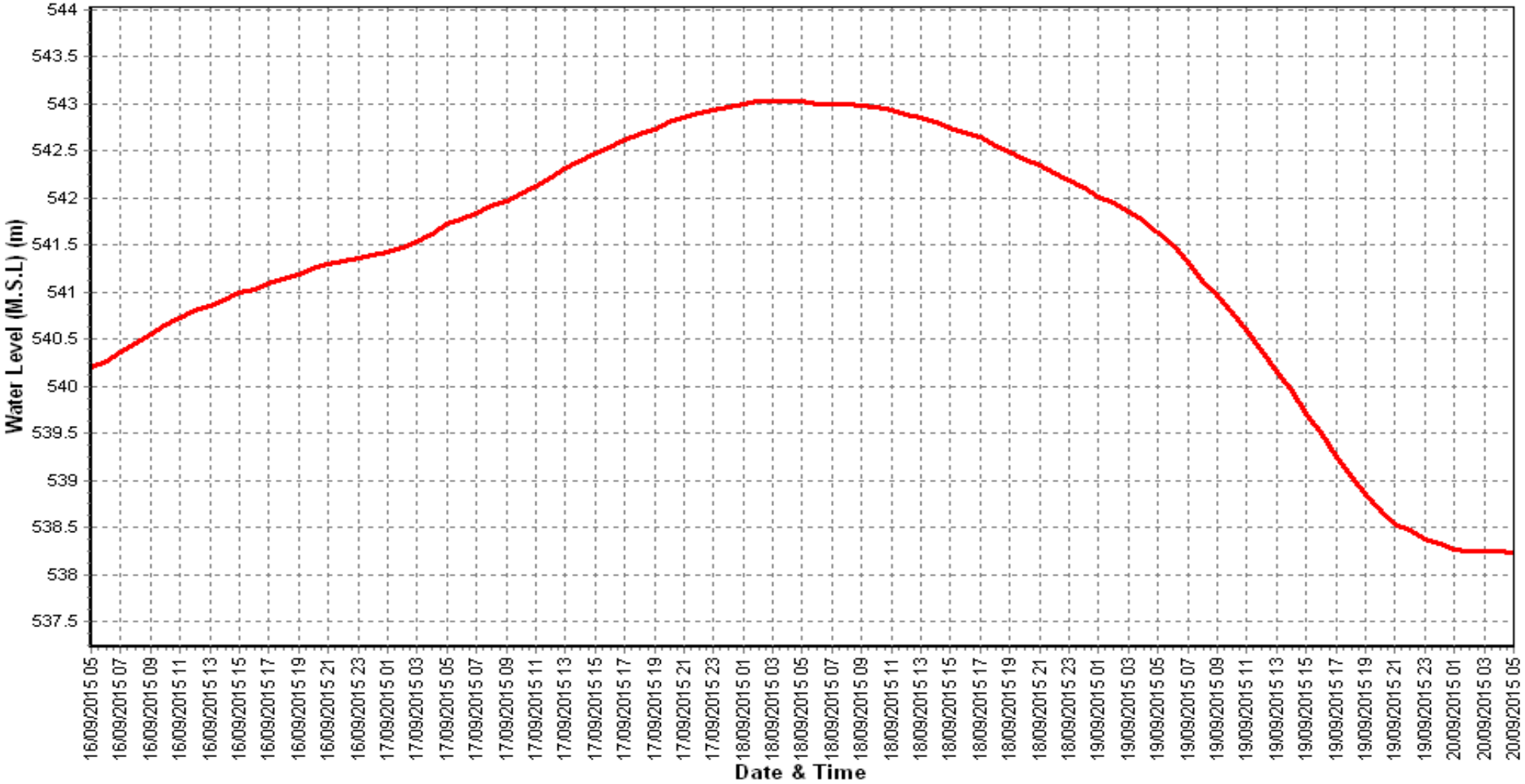
Local River : Indravathi **Sub-Division : Indravati SD, Jagdalpur**



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

Station Name : Jagdalpur (AGG00R9) **Division : Lower Godavari Div., Hyderabad**

Local River : Indravathi **Sub-Division : Indravati SD, Jagdalpur**

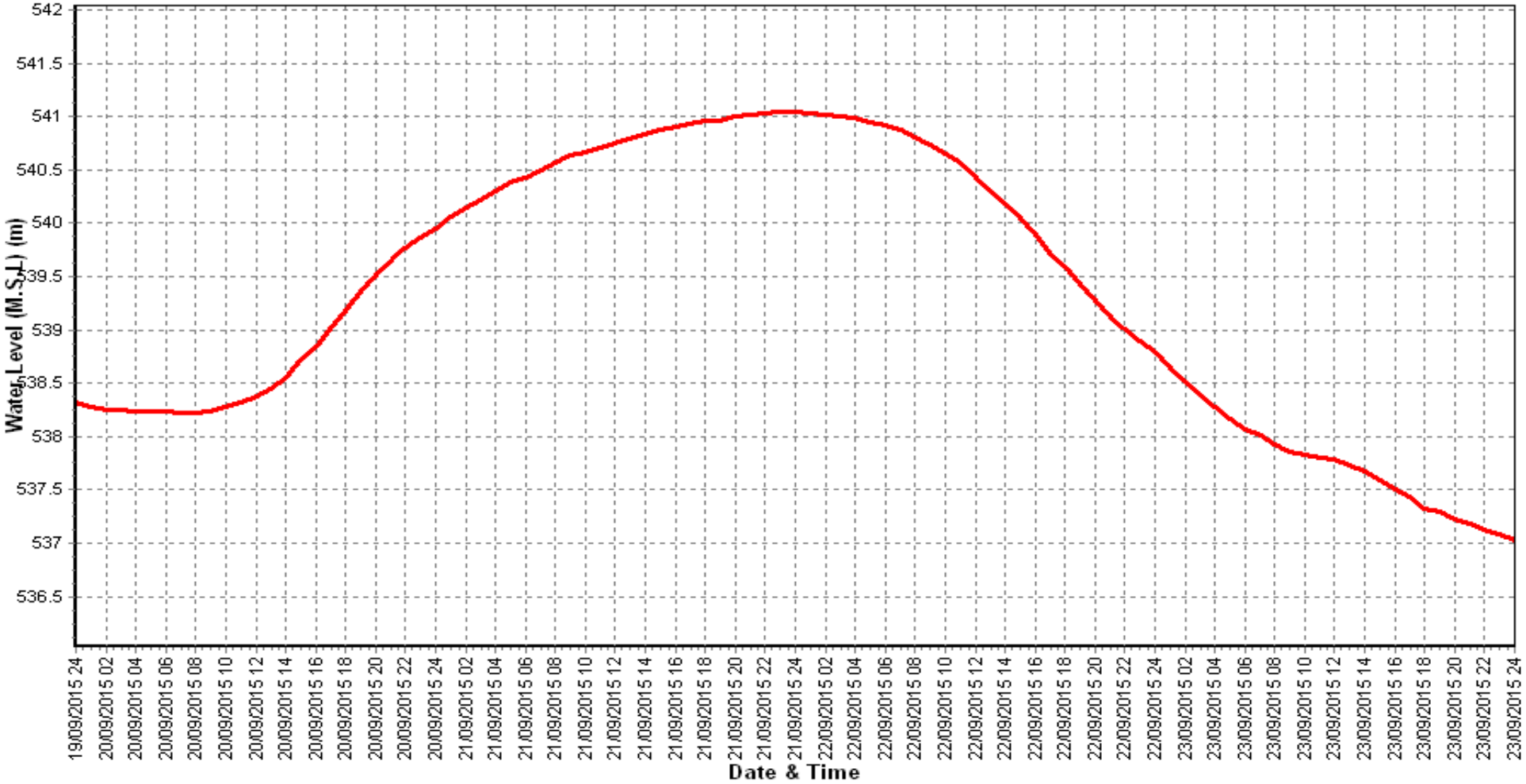


Time Span: 96 Hrs

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

Station Name : Jagdalpur (AGG00R9) **Division : Lower Godavari Div., Hyderabad**

Local River : Indravathi **Sub-Division : Indravati SD, Jagdalpur**

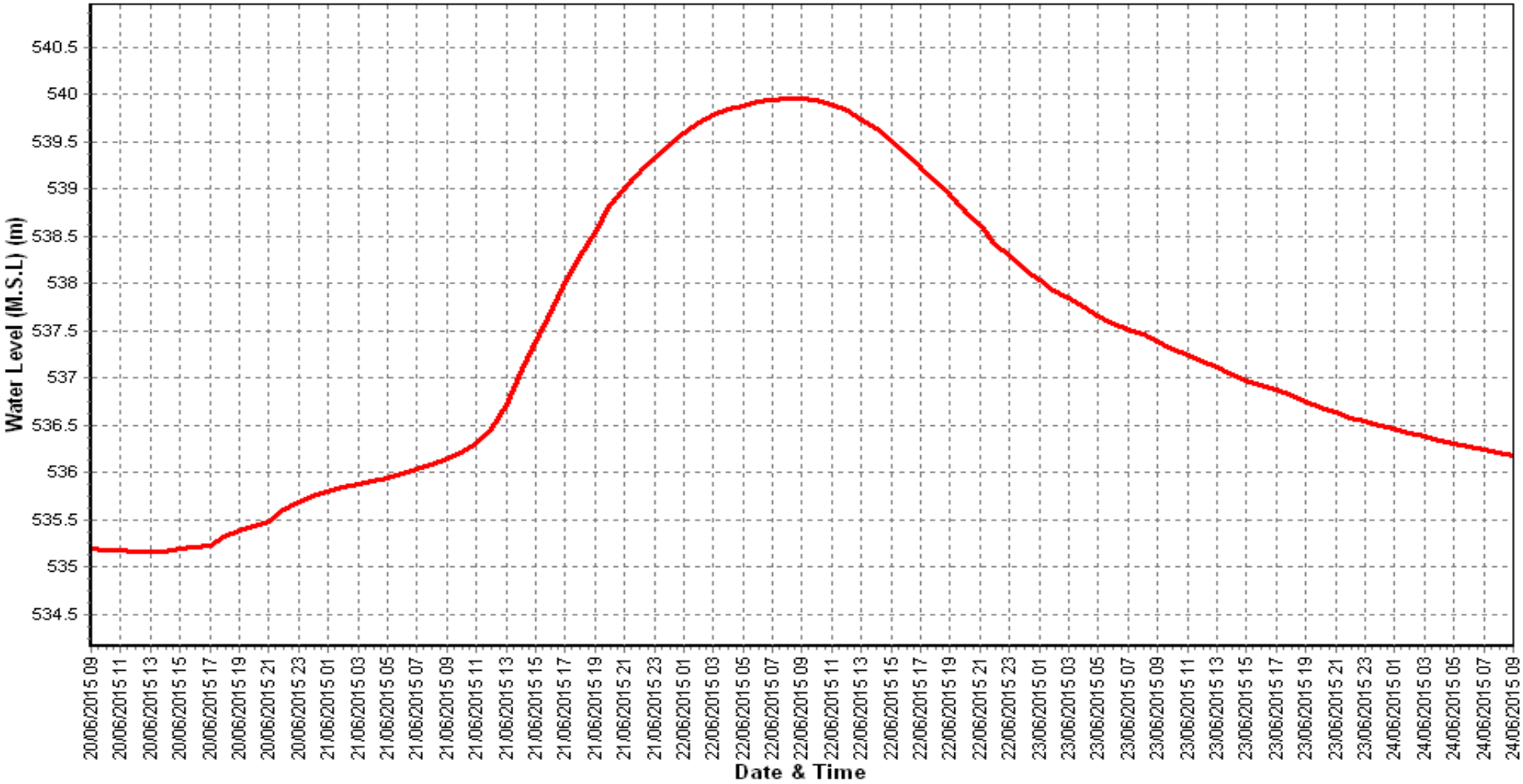


Time Span: 96 Hrs

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

Station Name : Jagdalpur (AGG00R9) **Division : Lower Godavari Div., Hyderabad**

Local River : Indravathi **Sub-Division : Indravati SD, Jagdalpur**



Time Span: 96 Hrs

HISTORY SHEET

			Water Year	:	**2015-2016**
Site	:	**Kosagumda**	**Code**	:	**Kosagumda**
State	:	Orissa	District		Nowrangpur
Basin	:	Ganga-Brahm-Meghna Basin	Independent River	:	Godavari
Tributary	:	Indravathi	Sub Tributary	:	
Sub-Sub Tributary	:		Local River	:	Bhaskal
Division	:	L Godavari Div., Hyderabad	Sub-Division	:	ISD, Jagdalpur
Drainage Area	:	1635 Sq. Km.	Bank	:	Left
Latitude	:	19°16'37"	Longitude	:	82°14'00"
Zero of Gauge (m)	:	547.000 (m.s.l)	13.11.1996		31.05.2015
		Opening Date	Closing Date		
Gauge	:	13.11.1996	**HFL During 2015-16**	:	**555.650**
			Corres. Discharge	:	**1024.918 Cumes(Estimated)**
Discharge	:	13.11.1996	**Date & Time of**	:	**17.09.2015**
			Occurance	:	**06:00 hrs.**
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**
1998-1999	138.8	550.740	16.08.1998	0.081	548.195	23.06.1998
1999-2000	317.1	552.160	08.09.1999	0.000	548.130	29.04.2000
2000-2001	802.7	554.120	30.08.2000	0.000	548.130	21.02.2001
2001-2002	893.5	556.150	20.08.2001	0.000	548.010	24.01.2002
2002-2003	539.0	553.050	24.08.2002	0.000	547.950	19.01.2003
2003-2004	943.8	554.570	28.08.2003	0.000	547.930	10.06.2003
2004-2005	1182	555.560	15.06.2004	0.393	548.110	11.04.2005
2005-2006	666.3	553.000	14.09.2005	0.249	548.080	15.05.2006
2006-2007	1647	556.140	04.07.2006	0.421	547.700	04.04.2007
2007-2008	1516	555.630	07.08.2007	0.081	547.650	09.06.2007
2008-2009	791.0	553.160	10.08.2008	0.020	548.060	07.05.2009
2009-2010	703.1	552.820	26.08.2009	0.039	548.090	24.03.2010
2010-2011	1692	555.870	06.08.2010	0.275	548.030	25.03.2011
2011-2012	381.7	551.520	28.08.2011	0.000	548.050	22.03.2012
2012-2013	689.8	553.150	06.08.2012	0.054	548.090	14.04.2013
2013-2014	1158	555.040	14.06.2013	0.323	548.030	06.04.2014
2014-2015	8795	554.150	22.07.2014	0.349	548.080	25.03.2015

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

Stage-Discharge Data for the period 2015 - 2016

Station Name : Kosagumda (Kosagumda) **Division : L Godavari Div., Hyderabad**

Local River : Bhaskal **Sub-Division : ISD, Jagdalpur**

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	548.110	1.020	549.185	52.05	548.430	6.981	549.670	96.39	548.650	23.95	548.180	6.102 *
2	548.100	0.959	548.725	17.55	548.410	6.947 *	549.760	101.1	548.640	25.10 *	548.170	6.540
3	548.100	0.920	548.915	26.56	548.400	6.237	549.495	78.78	548.700	28.09	548.160	5.559
4	548.130	1.198	548.853	25.13	548.390	6.237	549.153	52.81	548.660	26.14 *	548.150	5.467
5	548.140	1.531	548.660	15.90 *	548.390	6.542	548.975	44.50 #	548.630	21.91	548.140	5.689
6	548.370	4.732	548.530	10.00	548.390	6.732	549.130	54.85 *	548.590	22.06	548.140	5.500
7	548.290	3.967 *	548.460	8.208	548.380	6.417	549.093	52.27 #	548.550	20.58	548.130	4.761
8	548.290	3.633	548.375	7.847	548.380	6.248	548.995	45.79 #	548.510	20.38	548.130	4.676 *
9	548.250	3.014	548.350	5.351 #	548.480	9.079 *	549.075	51.08 #	548.500	17.54	548.120	3.867
10	548.210	2.876	548.440	9.700	548.530	11.69	549.020	47.42 #	548.480	16.13	548.120	3.918
11	548.180	2.024	548.578	11.51	548.630	14.63 #	548.850	36.77 #	548.450	16.07 *	548.110	4.147 *
12	548.170	1.926	548.680	16.78 *	548.675	16.56 #	548.810	34.42 #	548.430	14.68	548.110	4.147 #
13	548.980	32.85 #	548.630	13.21	549.303	56.88	548.890	39.18 *	548.420	14.04	548.100	3.125
14	548.690	17.23 *	548.558	10.07	551.100	305.7 *	548.840	36.18 #	548.400	13.87	548.100	3.892 #
15	548.695	18.71	549.090	40.11 *	549.150	44.39 *	550.375	164.9 #	548.400	12.62	548.090	3.643 *
16	549.170	45.86 #	548.940	30.39 *	549.420	66.37 *	553.540	614.9 *	548.270	9.019 #	548.090	3.643 #
17	550.520	202.9 *	549.220	49.66 *	549.453	71.24	555.630	1021 *	548.260	8.674 #	548.090	3.643 #
18	549.170	49.53	548.960	31.61 *	549.600	79.51	551.750	333.4 *	548.250	8.334 *	548.090	3.022
19	548.835	20.86	548.790	22.04 *	549.390	68.27	550.395	163.5	548.240	7.999 #	548.090	2.960
20	548.675	18.39	548.908	29.48	548.970	29.86	551.040	240.8 *	548.230	9.481 #	548.080	3.189
21	550.680	229.1 *	548.885	27.79	549.098	39.36	554.240	742.0 *	548.230	8.827	548.080	3.073
22	552.380	608.8 *	548.780	23.77	548.970	30.66	551.050	242.0 *	548.230	7.669 *	548.080	3.400 *
23	550.500	199.7 *	549.910	117.8 #	549.250	52.01 *	549.980	132.6	548.220	8.572	548.070	2.813
24	549.425	66.82 #	549.328	54.36	548.930	32.90	549.400	84.91	548.210	7.026 *	548.070	2.690
25	548.925	29.49 #	548.925	29.49 #	548.785	23.65	549.130	54.85 *	548.210	7.026 *	548.070	3.164 *
26	548.865	24.76	548.760	20.53 *	548.670	16.34 #	549.000	47.19	548.200	6.890	548.070	2.715
27	548.730	17.39	548.630	14.63 #	548.705	17.91 #	548.890	39.18 *	548.180	6.792	548.060	2.549
28	548.670	16.34 *	548.570	12.04	549.148	52.48	548.780	29.94	548.170	6.557	548.080	3.556
29	548.690	18.89	548.510	9.961	551.650	423.0 *	548.720	30.47	548.160	5.944	548.080	3.400 *
30	549.245	47.14	548.460	7.919	550.530	204.5 *	548.680	26.82	548.160	5.662	548.090	4.167
31			548.440	7.288	549.870	113.1			548.180	7.029		
Daily Mean												
Ten-Da	548.199	2.385	548.649	17.83	548.418	7.311	549.236	62.50	548.591	22.19	548.144	5.208
Ten-Da	548.909	41.03	548.835	25.49	549.369	75.34	550.812	268.5	548.335	11.48	548.095	3.541
Ten-Da	549.611	125.8	548.836	29.60	549.419	91.45	549.787	143.0	548.195	7.090	548.075	3.153
Monthly												
Min.	548.100	0.920	548.350	5.351	548.380	6.237	548.680	26.82	548.160	5.662	548.060	2.549
Max.	552.380	608.8	549.910	117.8	551.650	423.0	555.630	1021	548.700	28.09	548.180	6.540
Mean	548.906	56.42	548.776	24.48	549.080	59.11	549.945	158	548.368	13.38	548.105	3.967

Annual Runoff in MCM = 843 Annual Runoff in mm = 516

Peak Observed Discharge = 164.9 cumecs on 15/09/2015 Corres. Water Level :550.375 m

Lowest Observed Discharge = 0.000 cumecs on 10/04/2016 Corres. Water Level :547.9 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

Stage-Discharge Data for the period 2015 - 2016

Station Name : Kosagumda (Kosagumda) **Division : L Godavari Div., Hyderabad**

Local River : Bhaskal **Sub-Division : ISD, Jagdalpur**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	548.090	4.024	548.040	1.912	547.950	0.648	547.910	0.247	547.850	0.193 *	547.780	0.000
2	548.110	4.322	548.040	1.870	547.950	0.653	547.960	0.707	547.960	0.193 #	547.800	0.000
3	548.130	4.676 *	548.030	1.870 *	547.940	0.531	547.950	0.594	548.000	0.198 *	547.810	0.000
4	548.130	4.967	548.020	1.924	547.940	0.516	547.940	0.571	547.930	0.812	547.810	0.000
5	548.130	4.992	548.010	1.788	547.940	0.520	547.950	0.645	547.920	0.712	547.820	0.000
6	548.170	5.805 *	548.000	1.792	547.940	0.540	547.940	0.571 *	547.920	0.667	547.810	0.000
7	548.170	6.448	548.000	1.680	547.940	0.540 *	547.930	0.413	548.050	2.752	547.800	0.000
8	548.150	4.978	547.990	1.360	547.930	0.447	547.920	0.351	547.970	0.192 *	547.810	0.211 #
9	548.140	4.648	547.990	1.376	547.930	0.349	547.910	0.215	547.920	0.705	548.010	1.939
10	548.130	4.424	547.980	1.217 *	547.930	0.322	547.920	0.265	547.900	0.000	547.880	0.242
11	548.150	4.703	547.980	1.217	547.930	0.429	547.910	0.225	547.890	0.000	547.910	0.737
12	548.110	4.216	547.980	1.323	547.920	0.483	547.910	0.227	547.880	0.000	547.880	0.225
13	548.140	4.950 *	547.980	1.265	547.920	0.440	547.910	0.227 *	547.860	0.000	547.860	0.193 *
14	548.160	6.512	547.980	1.267	547.920	0.440 *	547.910	0.227	547.850	0.000	547.880	0.221
15	548.100	4.539	547.970	1.172 *	547.920	0.430	547.930	0.227 #	547.850	0.000	547.880	0.000
16	548.100	4.250	547.970	1.172	547.920	0.477	547.940	0.531	547.840	0.000	547.850	0.000
17	548.090	3.665	547.970	1.172 *	547.920	0.319	548.010	1.979	547.840	0.000	547.830	0.000
18	548.080	3.605	547.970	1.087	547.920	0.314	547.970	1.246	547.820	0.000	547.790	0.000
19	548.090	3.664	547.960	1.075	547.920	0.330	547.930	0.753	547.810	0.000	547.800	0.000
20	548.090	3.643 *	547.960	0.825	547.920	0.328	547.930	0.753 *	547.810	0.000	547.800	0.000
21	548.080	3.280	547.960	0.789	547.920	0.328 *	547.930	0.755	547.800	0.000	547.830	0.000
22	548.080	3.532	547.960	0.867	547.920	0.325	547.910	0.547	547.800	0.000	547.850	0.000
23	548.100	4.249	547.960	0.868	547.920	0.316	547.900	0.492	547.790	0.000	547.830	0.000
24	548.090	3.643 *	547.960	0.868 *	547.920	0.293	547.900	0.478	547.790	0.000	547.820	0.000
25	548.080	3.400 *	547.960	0.792	547.910	0.188	547.890	0.216 *	547.790	0.000	547.800	0.000
26	548.070	3.242	547.960	0.792 *	547.910	0.188	547.890	0.216	547.780	0.000	547.830	0.000
27	548.060	2.934 *	547.960	0.744	547.910	0.186	547.890	0.216 *	547.800	0.000	547.800	0.000
28	548.060	3.057	547.960	0.740	547.910	0.186 *	547.870	0.191	547.800	0.000	547.790	0.000
29	548.070	3.121	547.960	0.727	547.910	0.254	547.870	0.195	547.800	0.000	547.790	0.000
30	548.070	3.125	547.960	0.721			547.870	0.204	547.790	0.000	547.790	0.000
31	548.060	2.641	547.950	0.648 *			547.860	0.193			547.780	0.000
Daily M												
Ten-Da	548.135	4.928	548.010	1.679	547.939	0.507	547.933	0.458	547.942	0.642	547.833	0.239
Ten-Da	548.111	4.375	547.972	1.157	547.921	0.399	547.935	0.639	547.845	0.000	547.848	0.138
Ten-Da	548.075	3.293	547.959	0.778	547.914	0.252	547.889	0.337	547.794	0.000	547.810	0.000
Monthl												
Min.	548.060	2.641	547.950	0.648	547.910	0.186	547.860	0.191	547.780	0.000	547.780	0.000
Max.	548.170	6.512	548.040	1.924	547.950	0.653	548.010	1.979	548.050	2.752	548.010	1.939
Mean	548.106	4.17	547.980	1.191	547.925	0.39	547.918	0.473	547.860	0.214	547.830	0.122

Peak Computed Discharge = 1021 cumecs on 17/09/2015 Corres. Water Level :555.63 m

Lowest Computed Discharge = 0.186 cumecs on 28/02/2016 Corres. Water Level :547.91 m

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

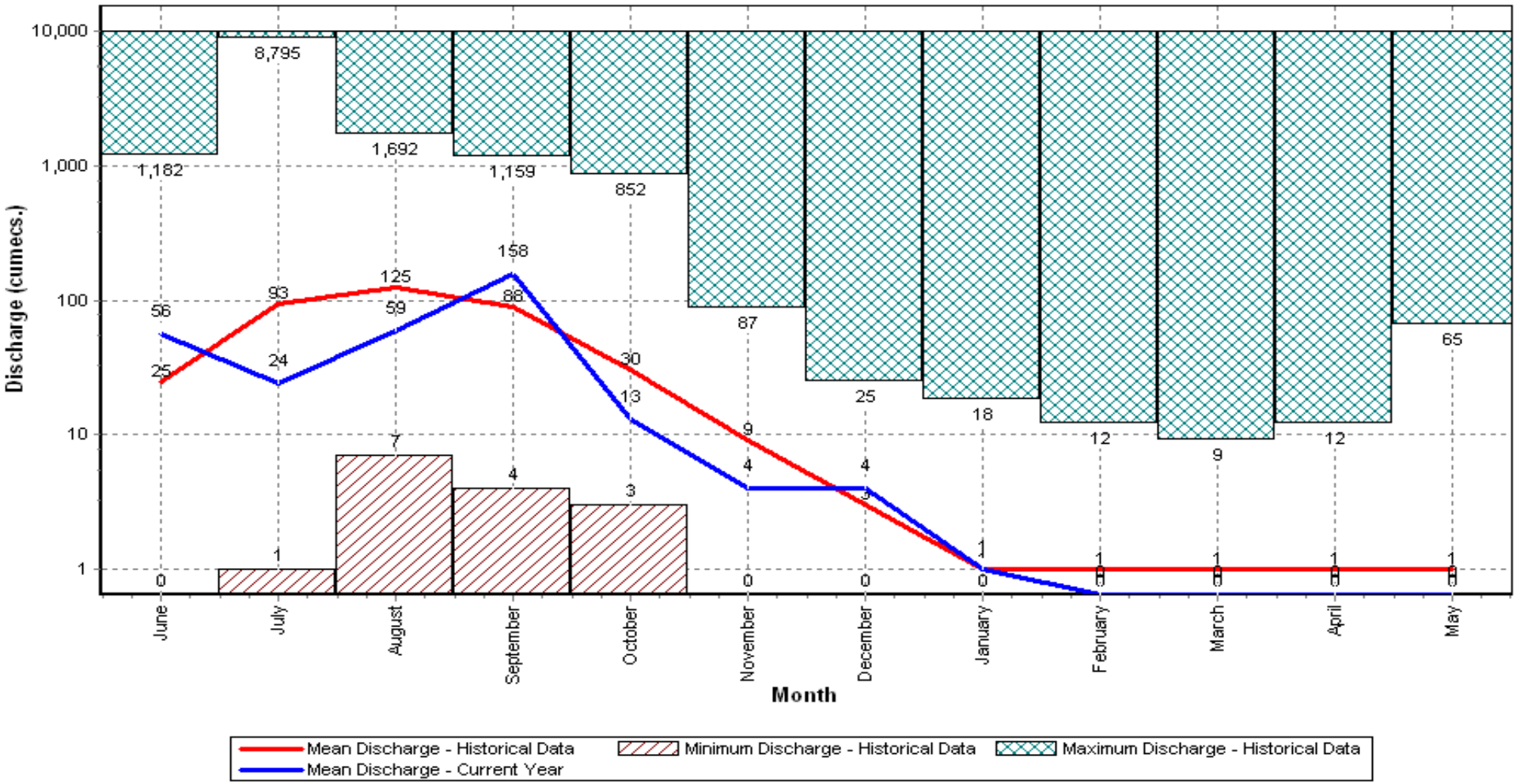
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016

Station Name : Kosagumda (Kosagumda) **Data considered : 1998-2016** **Division : L Godavari Div., Hyderabad**

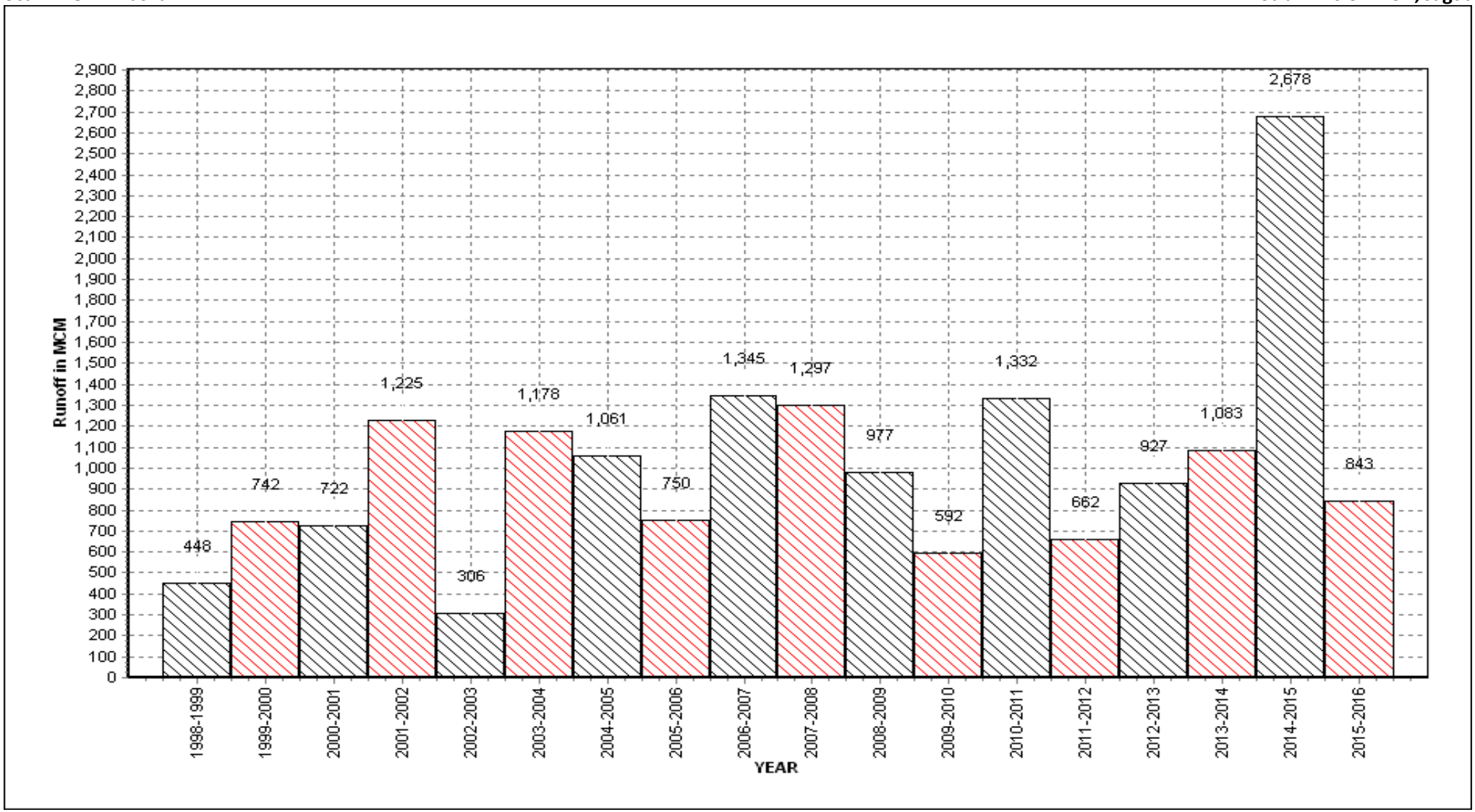
Local River : Bhaskal **Sub-Division : ISD, Jagdalpur**



Annual Runoff Values for the period: 1998 - 2016

Station Name : Kosagumda (Kosagumda) **Division : L Godavari Div., Hyderabad**

Local River : Bhaskal **Sub-Division : ISD, Jagdalpur**



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

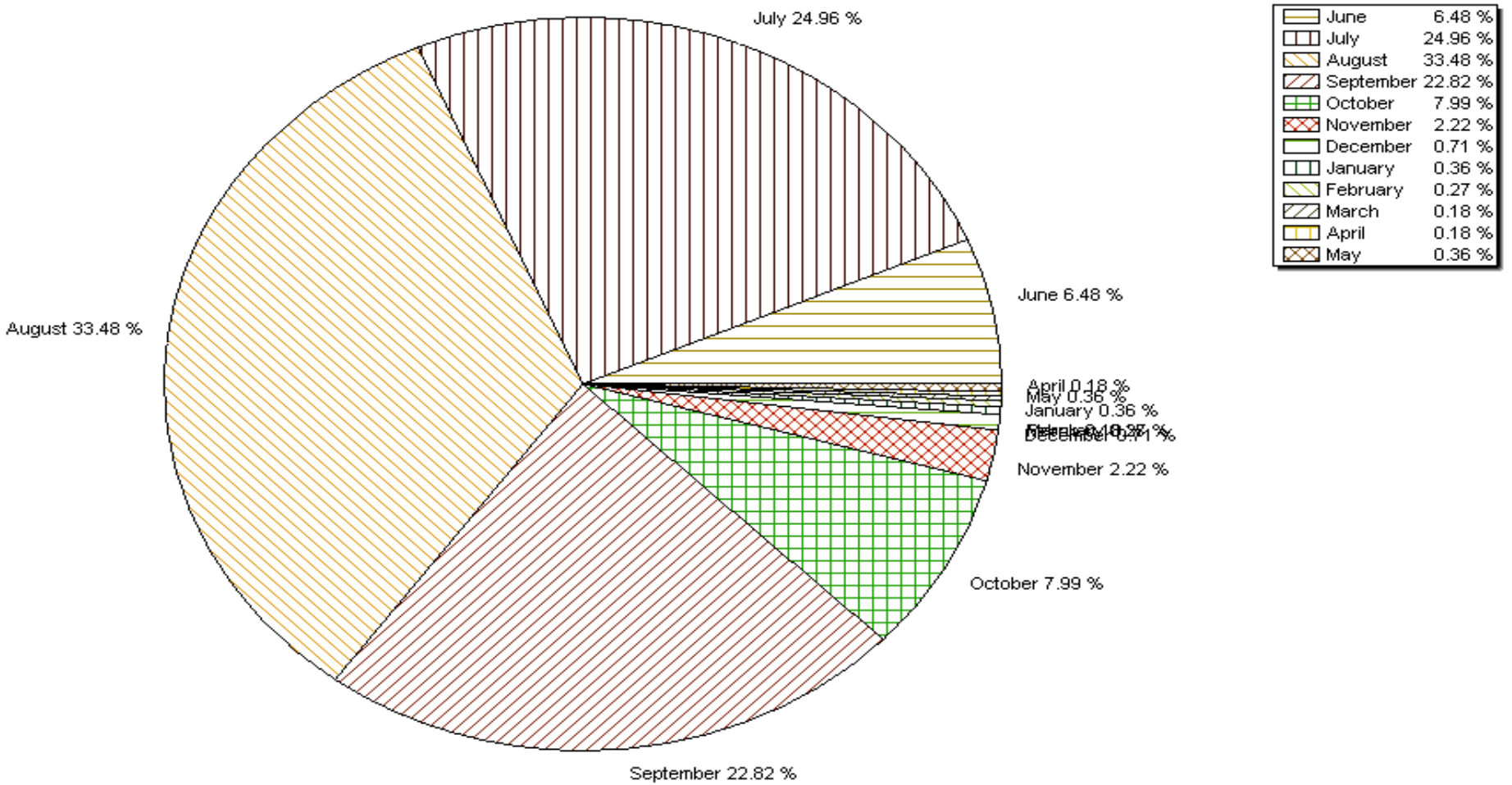
Monthly Average Runoff based on period : 1998-2015

Station Name : Kosagumda (Kosagumda)

Local River : Bhaskal

Division : L Godavari Div., Hyderabad

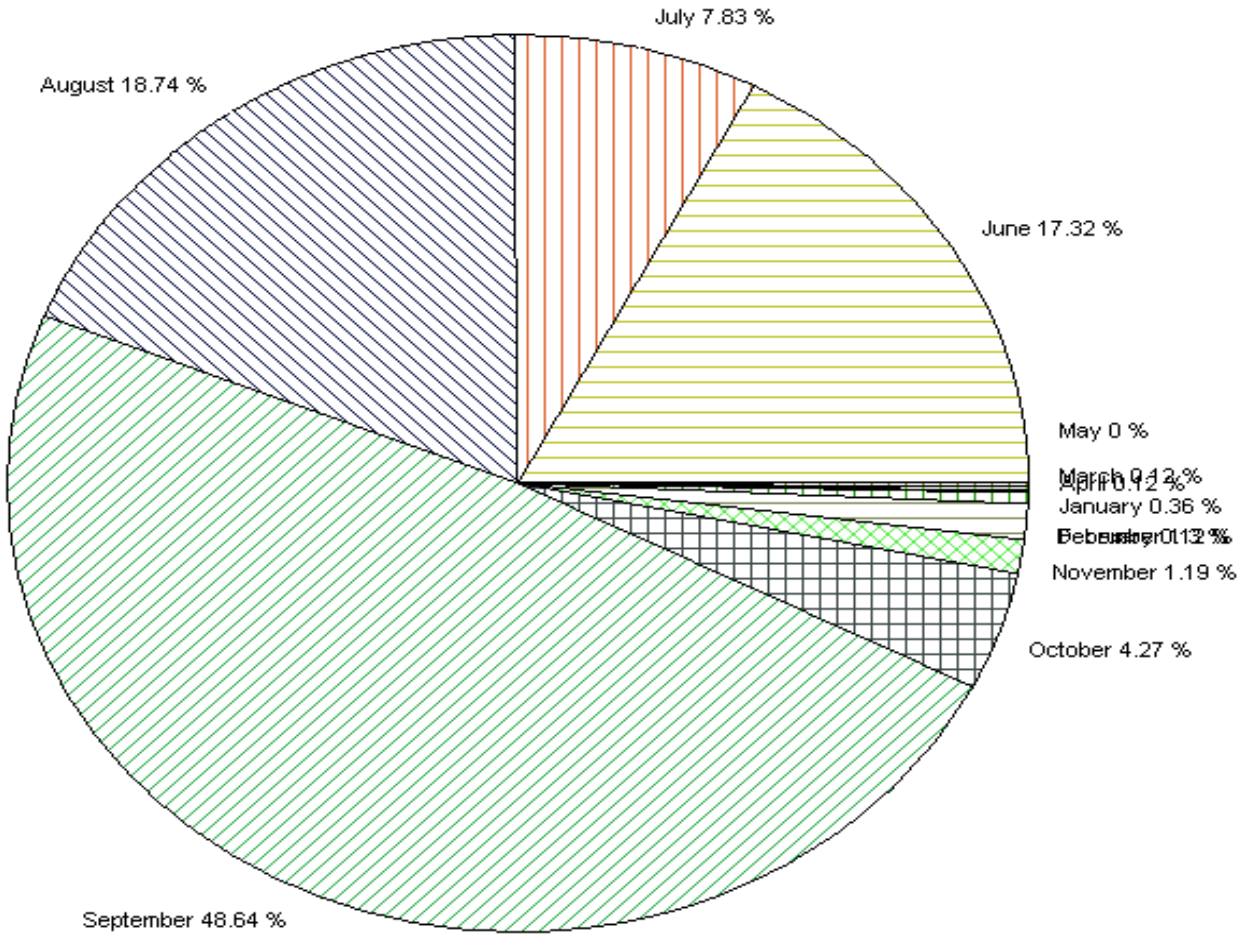
Sub-Division : ISD, Jagdalpur



Monthly Runoff for the Year : 2015-2016

Station Name : Kosagumda (Kosagumda) **Division : L Godavari Div., Hyderabad**

Local River : Bhaskal **Sub-Division : ISD, Jagdalpur**

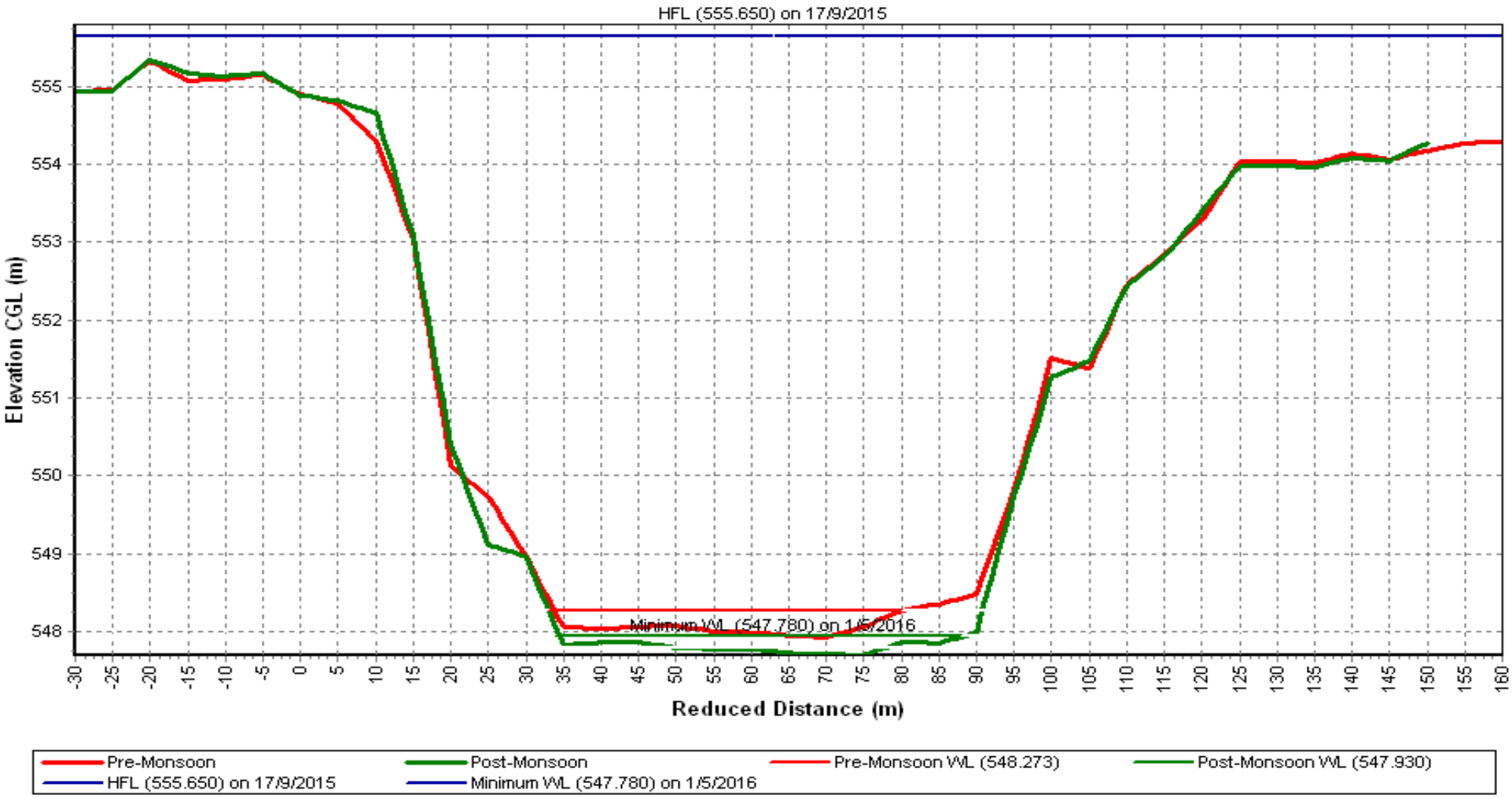


June	17.32 %
July	7.83 %
August	18.74 %
September	48.64 %
October	4.27 %
November	1.19 %
December	1.3 %
January	0.36 %
February	0.12 %
March	0.12 %
April	0.12 %
May	0 %

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

Station Name : Kosagumda (Kosagumda) **Division : L Godavari Div., Hyderabad**

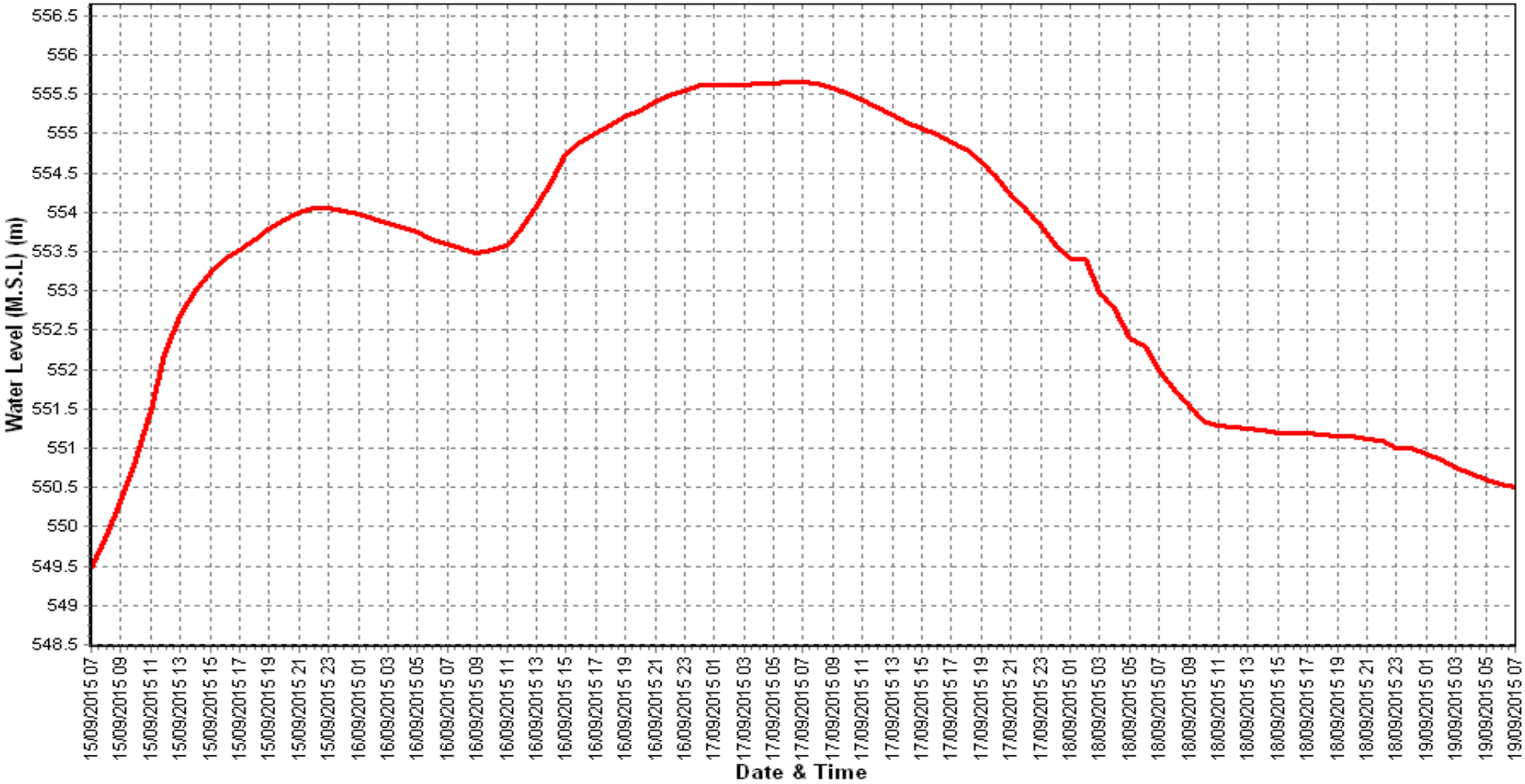
Local River : Bhaskal **Sub-Division : ISD, Jagdalpur**



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

Station Name : Kosagumda (Kosagumda) **Division : L Godavari Div., Hyderabad**

Local River : Bhaskal **Sub-Division : ISD, Jagdalpur**

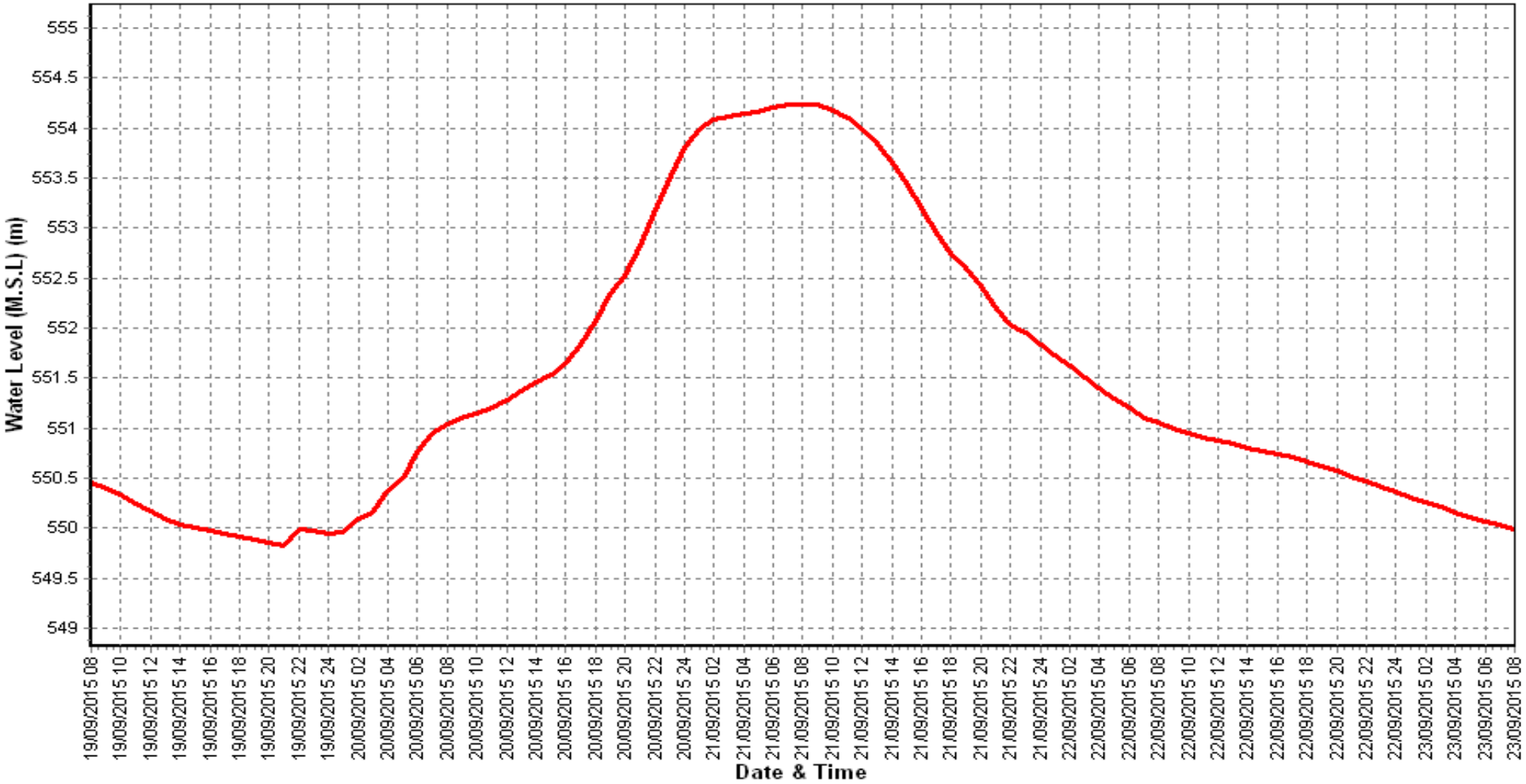


Time Span: 96 Hrs

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

Station Name : Kosagumda (Kosagumda) **Division : L Godavari Div., Hyderabad**

Local River : Bhaskal **Sub-Division : ISD, Jagdalpur**

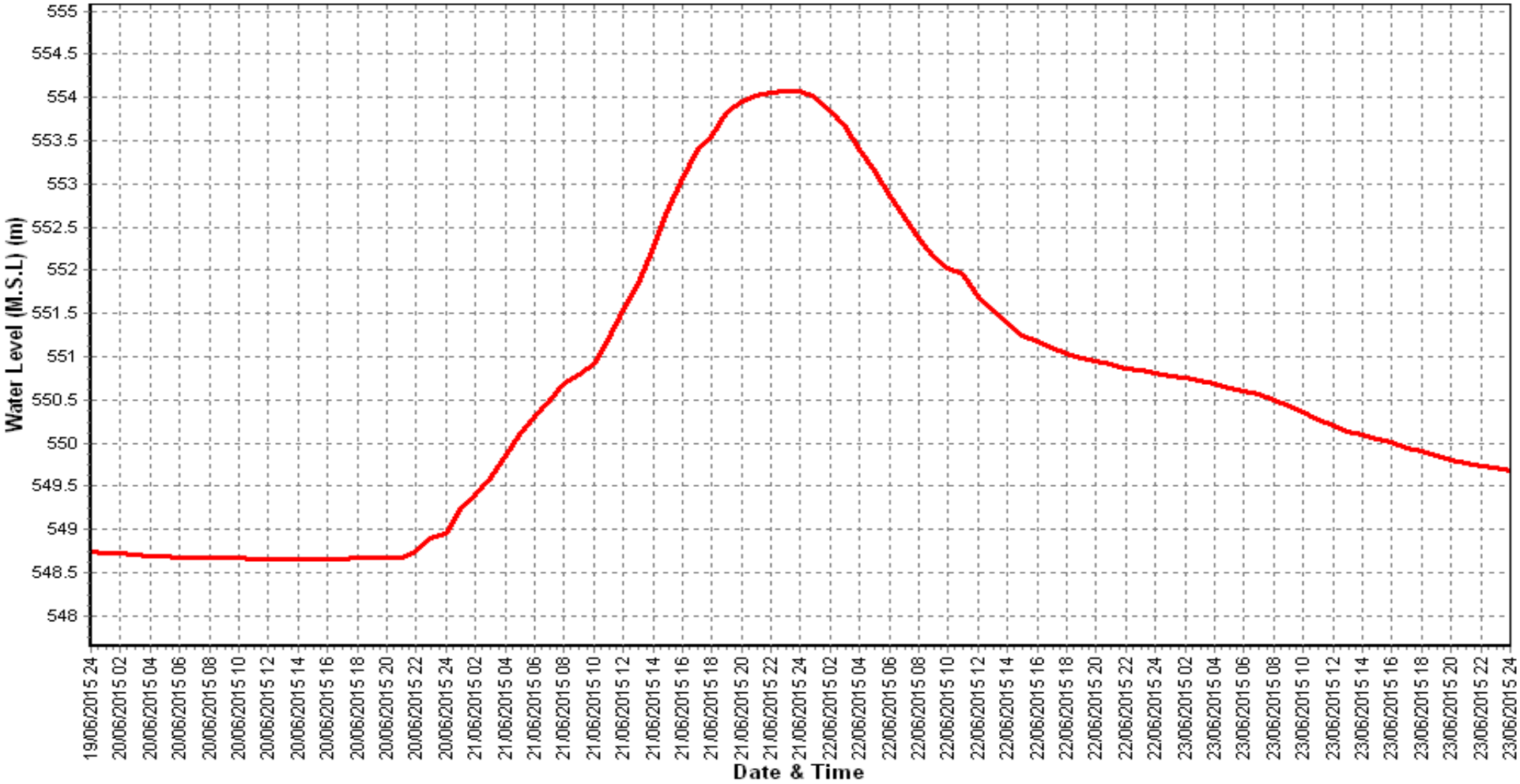


Time Span: 96 Hrs

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

Station Name : Kosagumda (Kosagumda) **Division : L Godavari Div., Hyderabad**

Local River : Bhaskal **Sub-Division : ISD, Jagdalpur**



Time Span: 96 Hrs

HISTORY SHEET

Water Year : 2015-2016

Site	**: Murthahandi**		**Code**	**: AGC40E9**	
State	: Orissa		District	Koraput	
Basin	: Godavari		Independent River	: Godavari	
Tributary	: Indravathi		Sub Tributary	: Journala	
Sub-Sub Tributary	: -		Local River	: Journala	
Division	: Lower Godavari Div., Hyderabad		Sub-Division	: Indravati SD, Jagdalpur	
Drainage Area	: Sq. Km.		Bank	: Right	
Latitude	: 19°03'00"		Longitude	: 82°17'00"	
Zero of Gauge (m)	: 533.6 (m.s.l) 533.6 (m.s.l)		01.06.1976 15.02.1979	- 14.02.1979	
	Opening Date		Closing Date		
Gauge	: 15.02.1979		**HFL During 2015-16**	**: 543.000**	
			Corres. Discharge	**: 1114.263 Cumes(Estimated)**	
Discharge	: 01.12.1988		**Date & Time of**	**: 17.09.2015**	
			Occurance	**: 15:00 hrs.**	
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**
1989-1990	508.2	539.850	28.08.1989	5.968	534.470	01.06.1989
1990-1991	1012	542.320	06.10.1990	10.55	534.770	22.05.1991
1991-1992	956.3	542.190	30.07.1991	6.788	534.680	26.05.1992
1992-1993	1554	543.930	29.07.1992	7.546	534.640	03.05.1993
1993-1994	421.5	540.240	16.07.1993	7.012	534.600	15.05.1994
1994-1995	1538	544.440	06.09.1994	2.371	534.780	04.06.1994
1995-1996	1190	542.890	01.09.1995	12.29	534.620	22.05.1996
1996-1997	324.4	539.080	21.07.1996	13.68	534.780	31.05.1997
1997-1998	373.9	539.410	22.08.1997	7.744	534.560	30.05.1998
1998-1999	389.6	539.350	12.07.1998	3.429	534.360	25.04.1999
1999-2000	347.3	538.160	09.09.1999	4.428	534.430	07.04.2000
2000-2001	683.3	541.420	31.08.2000	3.310	534.370	30.04.2001
2001-2002	824.5	542.200	21.08.2001	3.738	534.360	08.06.2001
2002-2003	560.4	540.330	24.08.2002	1.152	534.110	24.05.2003
2003-2004	705.0	541.030	08.09.2003	1.156	534.160	01.06.2003
2004-2005	666.9	540.780	15.06.2004	3.480	534.310	29.05.2005
2005-2006	539.5	540.290	13.09.2005	3.940	534.340	19.06.2005
2006-2007	967.9	542.200	05.07.2006	5.811	534.440	01.05.2007
2007-2008	642.6	540.990	30.06.2007	7.400	534.500	14.06.2007
2008-2009	432.3	540.400	11.08.2008	6.605	534.430	20.03.2009
2009-2010	295.9	538.670	20.07.2009	5.521	534.340	14.04.2010

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**
2010-2011	1882	545.090	06.08.2010	7.201	534.390	05.06.2010
2011-2012	423.8	539.470	02.09.2011	2.266	533.970	01.04.2012
2012-2013	685.2	541.240	06.08.2012	2.617	534.020	09.06.2012
2013-2014	821.0	541.700	15.06.2013	5.432	534.150	12.04.2014
2014-2015	541.2	540.550	29.07.2014	0.734	533.770	07.04.2015

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

Stage-Discharge Data for the period 2015 - 2016

Station Name : Murthahandi (AGC40E9) **Division : Lower Godavari Div., Hyderabad**

Local River : Journala **Sub-Division : Indravati SD, Jagdalpur**

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	534.120	4.644	535.540	49.81	534.775	22.31	537.395	190.6	535.570	47.54	534.910	23.26 *
2	534.120	5.123	535.205	41.93	534.770	18.72 *	537.470	198.3	535.490	47.26 *	534.910	23.80
3	534.140	4.930	535.070	29.29	534.870	22.61	537.085	146.7	535.595	49.46	534.900	23.62
4	534.150	4.599	535.060	28.60	534.860	22.22	536.630	121.7	535.558	50.62 *	534.890	23.19
5	534.750	17.08	535.240	35.88 *	534.840	21.68	536.208	88.16	535.440	40.00	534.870	20.70
6	534.660	16.68	535.170	29.72	534.795	21.16	535.950	72.26 *	535.370	38.06	534.910	23.85
7	534.530	12.09 *	534.895	21.18	534.870	25.61	535.930	73.90	535.300	37.90	534.840	22.90
8	534.510	16.15	534.750	18.76	534.765	21.64	536.235	87.75	535.240	35.75	534.820	20.29 *
9	534.425	13.01	534.680	16.44	534.840	20.93 *	535.975	75.89	535.200	33.95	534.780	18.79
10	534.355	9.119	534.700	17.36	534.988	28.53	535.965	67.61	535.190	32.00	534.760	18.19
11	534.300	8.886	534.780	19.05	535.040	30.53	535.680	53.94	535.170	32.98 *	534.730	17.52 *
12	534.340	9.679	534.830	20.61 *	535.150	33.54	535.510	47.15	535.140	30.47	534.710	17.70
13	534.260	7.948	534.810	20.40	535.605	54.11	535.480	46.77 *	535.100	29.58	534.690	17.32
14	534.580	13.36 *	534.740	18.11	536.410	97.37	535.440	42.49	535.080	27.12	534.680	16.89
15	534.800	19.40	535.268	40.29	536.300	94.83 *	535.885	76.43	535.050	26.93	534.660	15.51 *
16	534.825	23.17	535.975	72.55	535.870	67.54 *	540.560	613.9 *	535.030	25.62	534.650	16.68
17	535.240	35.87	536.140	81.81	535.765	57.26	542.400	977.52 *	535.010	25.05	534.640	16.39
18	535.260	37.62	536.200	88.07 *	536.150	86.50	541.740	837.41 *	534.990	26.07 *	534.640	15.50
19	535.085	34.08	535.900	69.29 *	535.960	70.27	538.140	263.6 *	534.990	25.00	534.640	15.36
20	534.940	31.43	535.490	46.27	535.670	53.70	537.530	198.3 *	534.980	24.71	534.640	14.92
21	535.540	49.72 *	535.275	36.87	535.825	63.99	540.030	524.7 *	534.960	24.26	534.630	14.50
22	538.130	294.4	535.480	47.26	535.755	62.22	539.590	456.0 *	534.930	23.95 *	534.620	14.41 *
23	536.635	122.0	535.905	70.83	535.790	62.97 *	537.100	142.1	534.920	23.77	534.600	14.11
24	536.080	91.55	535.990	76.09	535.900	67.53	536.550	108.5	534.910	23.26 *	534.570	13.84
25	535.610	53.27 #	535.780	66.35	536.135	75.00	536.310	95.52 *	534.930	23.95 *	534.550	12.59 *
26	535.340	40.25 #	535.670	56.41 *	535.840	67.75	536.095	85.16	534.910	23.75	534.550	13.82
27	535.310	43.59	535.620	55.36	535.975	74.59	536.070	79.66 *	534.890	22.40	534.540	12.89
28	535.090	29.81 *	535.408	47.60	537.660	181.9	535.850	59.69	534.910	22.77	534.520	12.48
29	535.000	25.91	535.195	37.38	537.010	126.4	535.700	56.14	534.890	21.88	534.580	13.36 *
30	535.630	52.83	534.965	25.70	536.730	126.7 *	535.640	55.76	534.890	21.37	534.580	12.32
31			534.830	23.04	536.535	104.5			534.910	23.83		
Daily Mean												
Ten-Dai	534.376	10.34	535.031	28.90	534.837	22.54	536.484	112.3	535.395	41.25	534.859	21.86
Ten-Da	534.763	22.14	535.413	47.65	535.792	64.56	537.836	134.3	535.054	27.35	534.668	16.38
Ten-Da	535.837	80.33	535.465	49.35	536.287	92.14	536.894	166.3	534.914	23.20	534.574	13.43
Monthly												
Min.	534.120	4.599	534.680	16.44	534.765	18.72	535.440	0.000	534.890	21.37	534.520	12.32
Max.	538.130	294.4	536.200	88.07	537.660	181.9	542.400	613.9	535.595	50.62	534.910	23.85
Mean	534.992	37.61	535.308	42.2	535.660	60.79	537.071	137.6	535.114	30.36	534.700	17.22

Annual Runoff in MCM = 955 Annual Runoff in mm =

Peak Observed Discharge = 294.4 cumecs on 22/06/2015 Corres. Water Level :538.13 m

Lowest Observed Discharge = 0.000 cumecs on 10/04/2016 Corres. Water Level :533.81 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 : Murthahandi (AGC40E9) **Division : Lower Godavari Div., Hyderabad**

Local River : Journala **Sub-Division : Indravati SD, Jagdalpur**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	534.550	12.10	534.350	8.065 #	534.460	9.918	534.320	7.505	534.320	7.832	533.780	0.000
2	534.520	11.93	534.340	6.148	534.470	9.984	534.350	7.588	534.310	7.468	533.770	0.000
3	534.520	11.87	534.350	8.065 *	534.490	10.40	534.320	7.476	534.330	7.667 *	533.770	0.000
4	534.510	10.31	534.350	6.404	534.470	10.20	534.330	7.472	534.350	8.216	533.790	0.000
5	534.490	10.11	534.380	6.969	534.480	10.29	534.330	7.448	534.340	8.130	533.800	0.000
6	534.480	10.89 *	534.390	7.300	534.480	10.25	534.330	7.667 *	534.330	8.014	533.800	0.000
7	534.470	9.115	534.430	8.552	534.460	10.43 *	534.340	7.502	534.330	7.998	533.780	0.000
8	534.470	9.406	534.430	8.473	534.460	10.06	534.300	7.290	534.220	5.661 *	533.780	0.000
9	534.450	9.404	534.420	8.446	534.480	11.91	534.280	7.198	533.870	0.669	533.780	0.000
10	534.430	9.254	534.390	8.890 *	534.450	9.834	534.240	6.942	533.810	0.000	533.810	0.000
11	534.420	9.165	534.400	9.102 *	534.430	9.830	534.220	6.865	533.800	0.000	533.780	0.000
12	534.420	9.111	534.400	8.337	534.410	9.672	534.220	6.593	533.770	0.000	533.780	0.000
13	534.420	9.535 *	534.370	7.805	534.400	9.376	534.260	6.355 *	533.770	0.000	533.780	0.000
14	534.420	9.087	534.360	7.628	534.390	8.890 *	534.300	8.228	533.770	0.000	533.780	0.000
15	534.460	9.154	534.340	7.865 *	534.390	9.876	534.330	8.414	533.760	0.000	533.900	0.000
16	534.470	9.229	534.340	7.199	534.380	9.185	534.420	9.574	533.760	0.000	533.890	0.000
17	534.460	9.388	534.340	7.865 *	534.360	8.974	534.520	11.67	533.760	0.000	533.890	0.000
18	534.460	8.904	534.350	7.203	534.350	8.893	534.680	16.38	533.760	0.000	533.850	0.000
19	534.440	8.918	534.350	7.190	534.350	8.852	534.610	14.98	533.760	0.000	533.820	0.000
20	534.430	9.755 *	534.360	7.093	534.350	8.824	534.520	11.85 *	533.760	0.000	533.800	0.000
21	534.410	8.700	534.370	7.144	534.330	7.667 *	534.450	10.59	533.760	0.000	533.790	0.000
22	534.400	8.555	534.400	8.722	534.300	7.689	534.410	10.01	533.760	0.000	533.790	0.000
23	534.400	8.429	534.410	8.792	534.280	7.558	534.390	9.872	533.760	0.000	533.770	0.000
24	534.390	8.890 *	534.410	9.317 *	534.290	7.567	534.380	9.856	533.760	0.000	533.760	0.000
25	534.390	8.890 *	534.410	8.966	534.280	7.472	534.380	8.680 *	533.760	0.000	533.750	0.000
26	534.380	8.680 #	534.400	9.102 *	534.280	7.404	534.410	10.05	533.760	0.000	533.760	0.000
27	534.370	8.472 *	534.410	8.937	534.300	7.433	534.420	9.535 *	533.790	0.000	533.750	0.000
28	534.360	8.267 #	534.410	8.985	534.300	7.090 *	534.400	8.465	533.780	0.000	533.750	0.000
29	534.360	5.897	534.410	9.024	534.310	7.461	534.360	8.085	533.780	0.000	533.750	0.000
30	534.360	8.267 #	534.430	9.062			534.360	8.008	533.780	0.000	533.750	0.000
31	534.350	8.065 #	534.440	9.977 *			534.330	7.719			533.740	0.000
Daily M												
Ten-Dai	534.489	10.44	534.383	7.731	534.470	10.33	534.314	7.409	534.221	6.166	533.786	0.000
Ten-Da	534.440	9.225	534.361	7.729	534.381	9.237	534.408	10.09	533.767	0.000	533.827	0.000
Ten-Da	534.379	8.283	534.409	8.912	534.297	7.482	534.390	9.170	533.769	0.000	533.760	0.000
Monthl												
Min.	534.350	5.897	534.340	6.148	534.280	7.090	534.220	6.355	533.760	0.000	533.740	0.000
Max.	534.550	12.10	534.440	9.977	534.490	11.91	534.680	16.38	534.350	8.216	533.900	0.000
Mean	534.434	9.283	534.385	8.149	534.385	9.068	534.371	8.899	533.919	2.055	533.790	0

Peak Computed Discharge = 613.9 cumecs on 16/09/2015 Corres. Water Level :540.56 m

Lowest Computed Discharge = 0.000 cumecs on 17/09/2015 Corres. Water Level :542.4 m

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

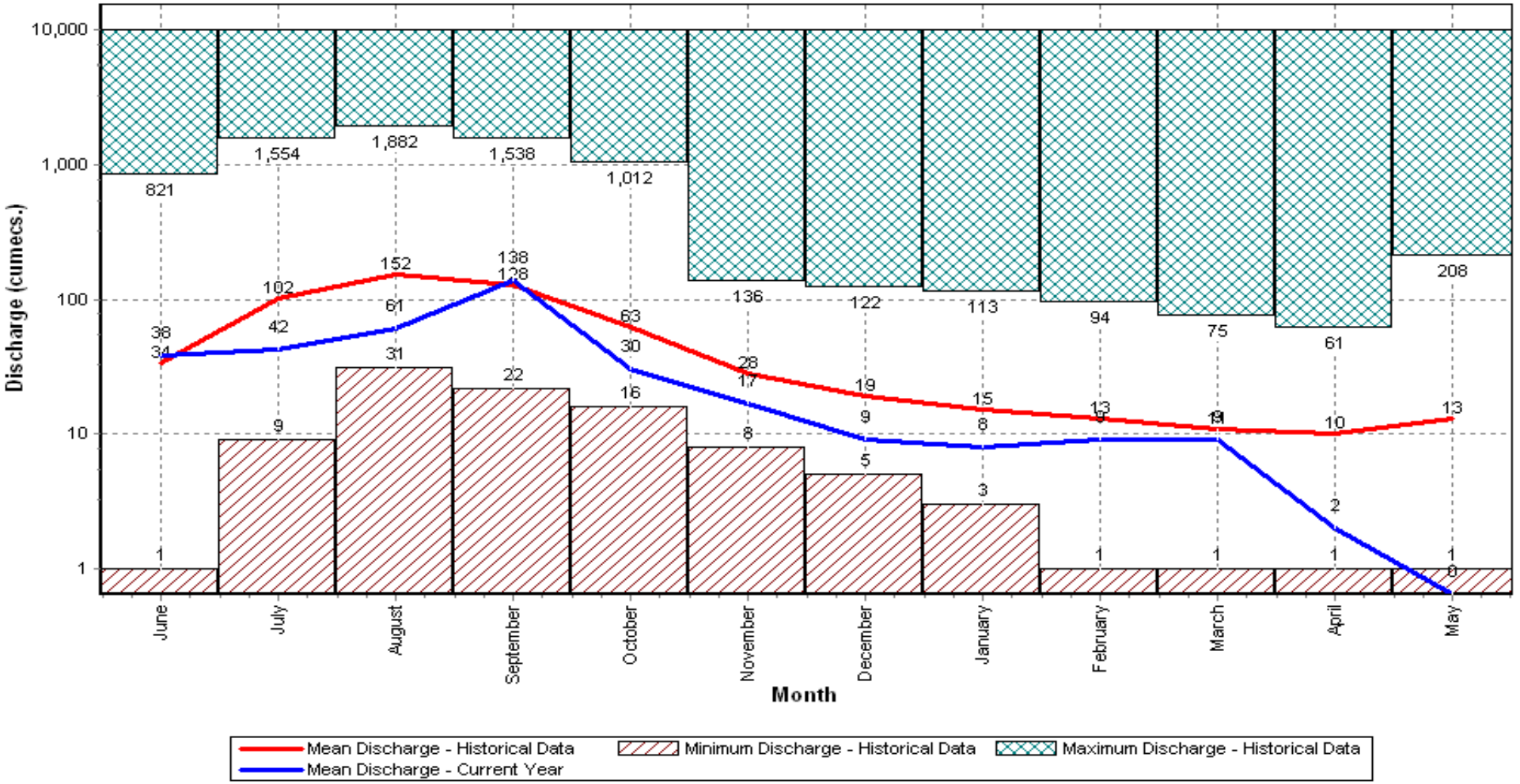
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016

Station Name : Murthahandi (AGC40E9) | **Data considered : 1989-2016** | **Division : Lower Godavari Div., Hyderabad**

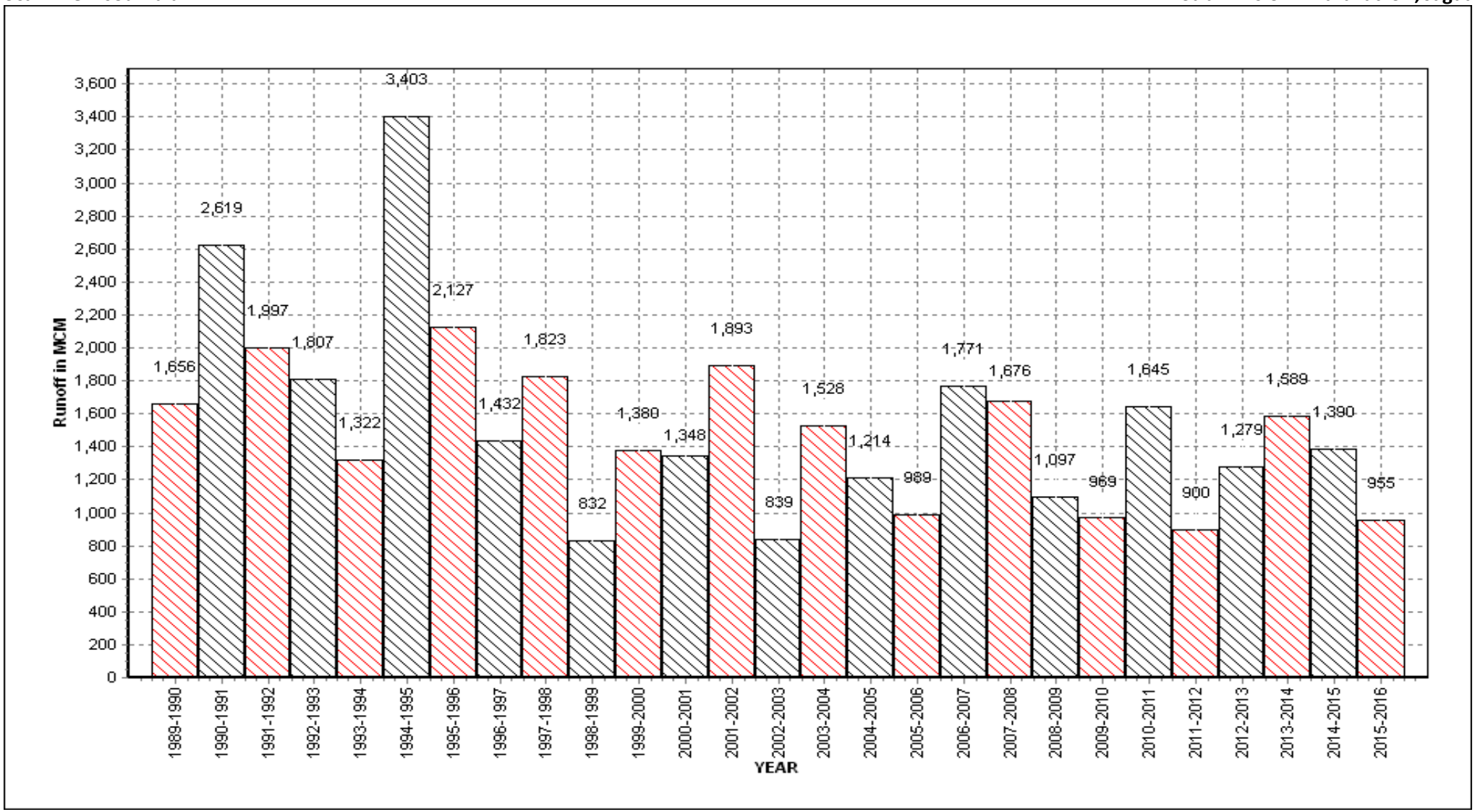
Local River : Journala | **Sub-Division : Indravati SD, Jagdalpur**



Annual Runoff Values for the period: 1989 - 2016

Station Name : Murthahandi (AGC40E9) **Division : Lower Godavari Div., Hyderabad**

Local River : Journala **Sub-Division : Indravati SD, Jagdalpur**



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

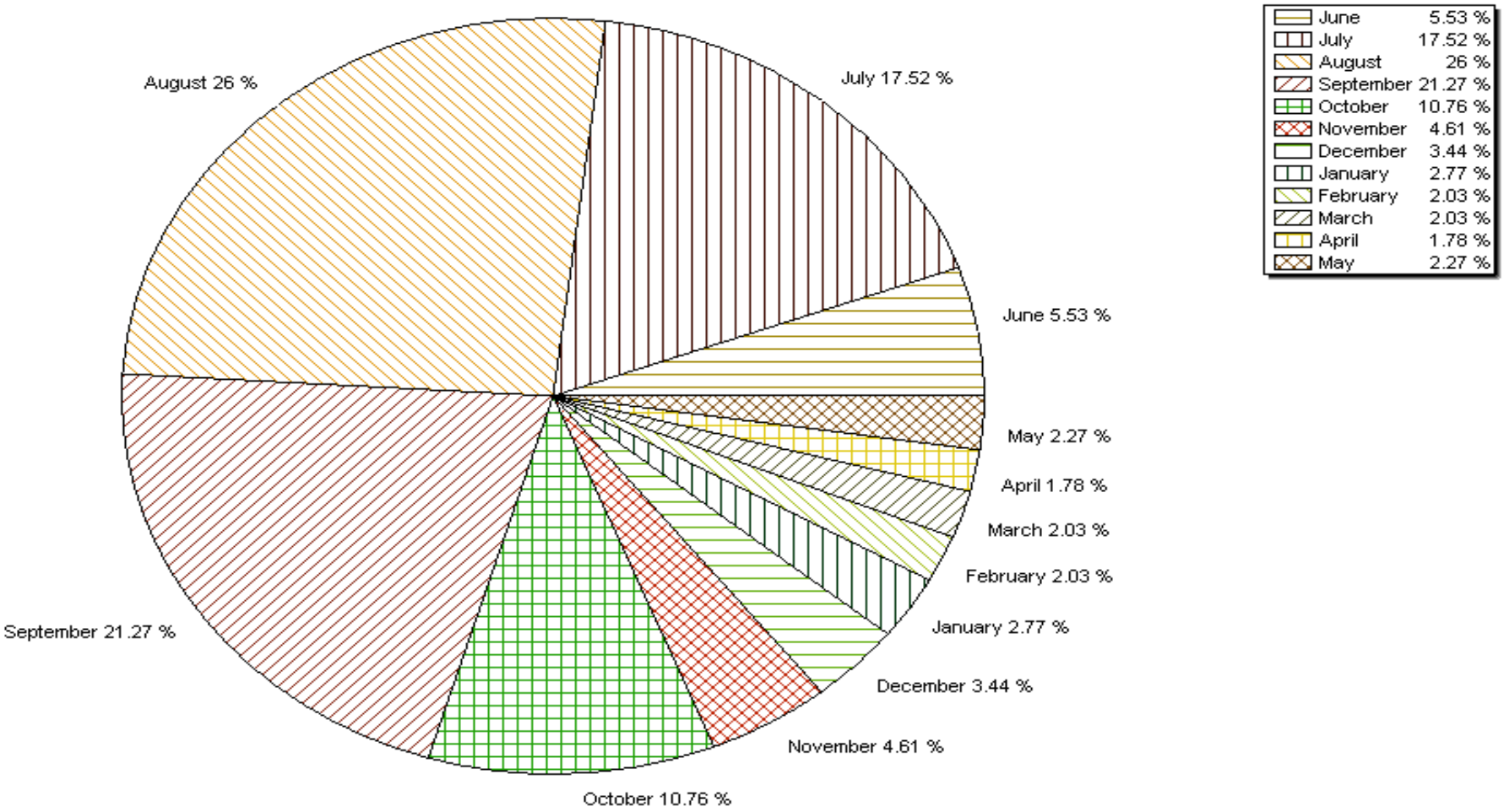
Monthly Average Runoff based on period : 1989-2015

Station Name : Murthahandi (AGC40E9)

Local River : Journala

Division : Lower Godavari Div., Hyderabad

Sub-Division : Indravati SD, Jagdalpur



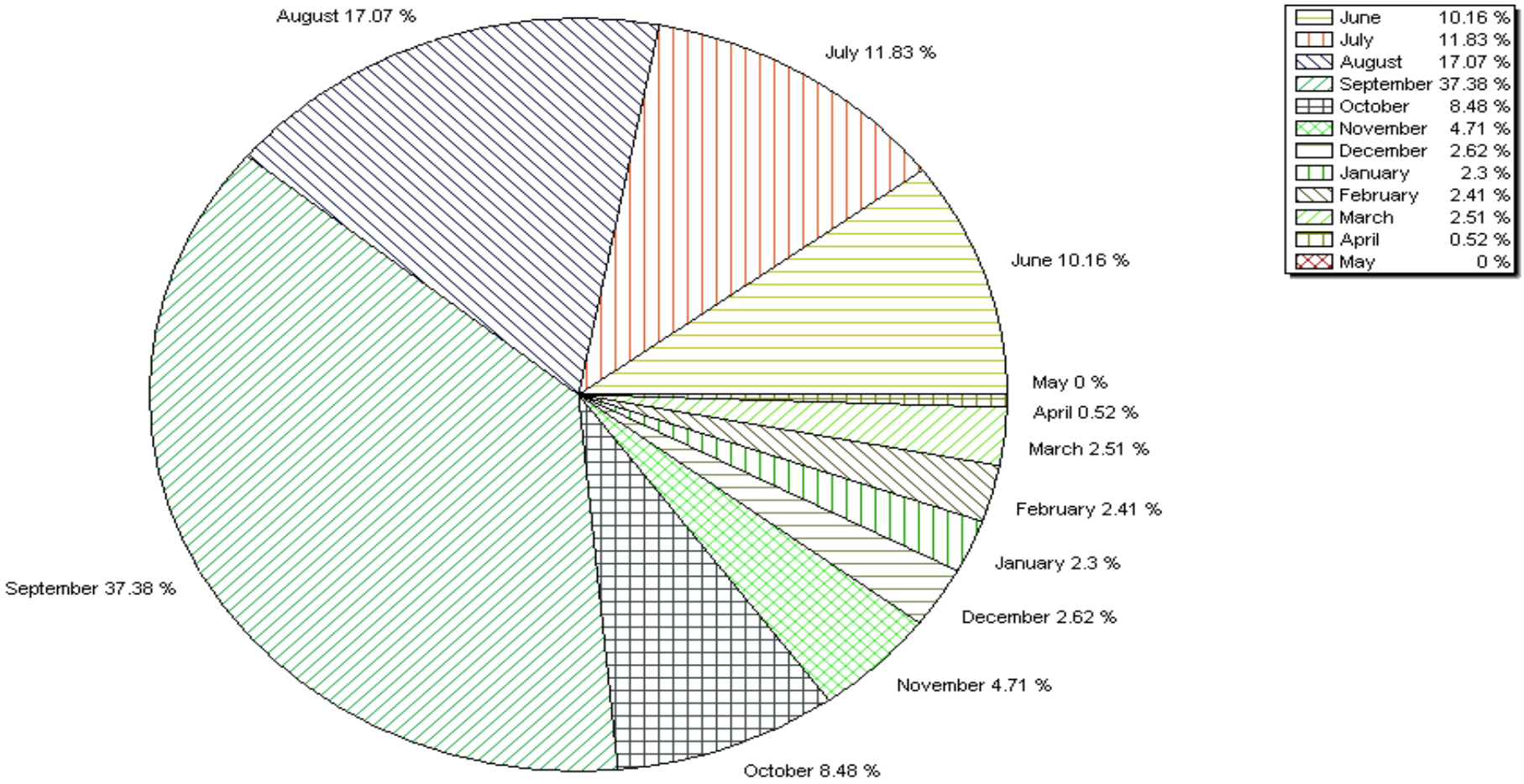
Monthly Runoff for the Year : 2015-2016

Station Name : Murthahandi (AGC40E9)

Local River : Journala

Division : Lower Godavari Div., Hyderabad

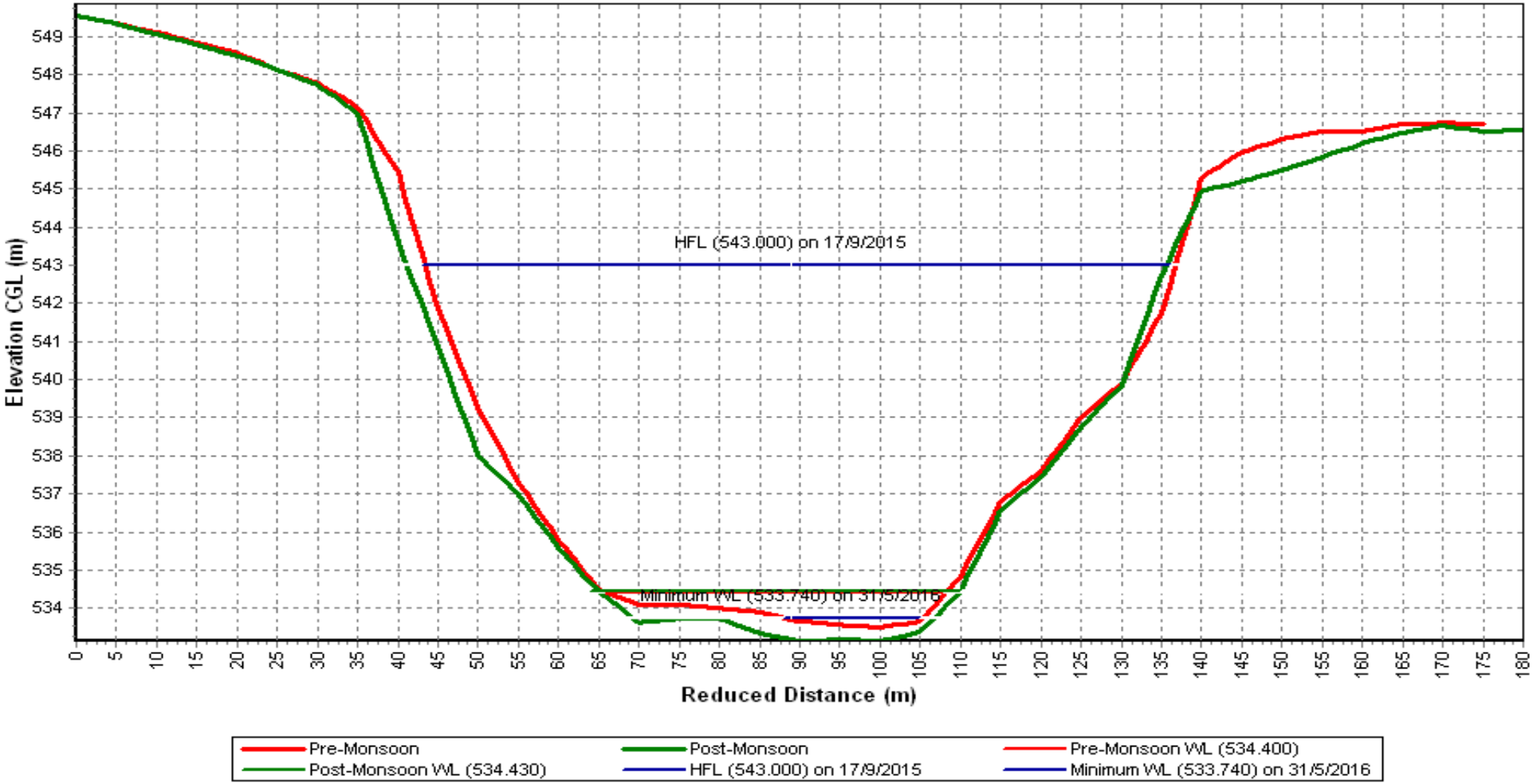
Sub-Division : Indravati SD, Jagdalpur



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

Station Name : Murthahandi (AGC40E9) **Division : Lower Godavari Div., Hyderabad**

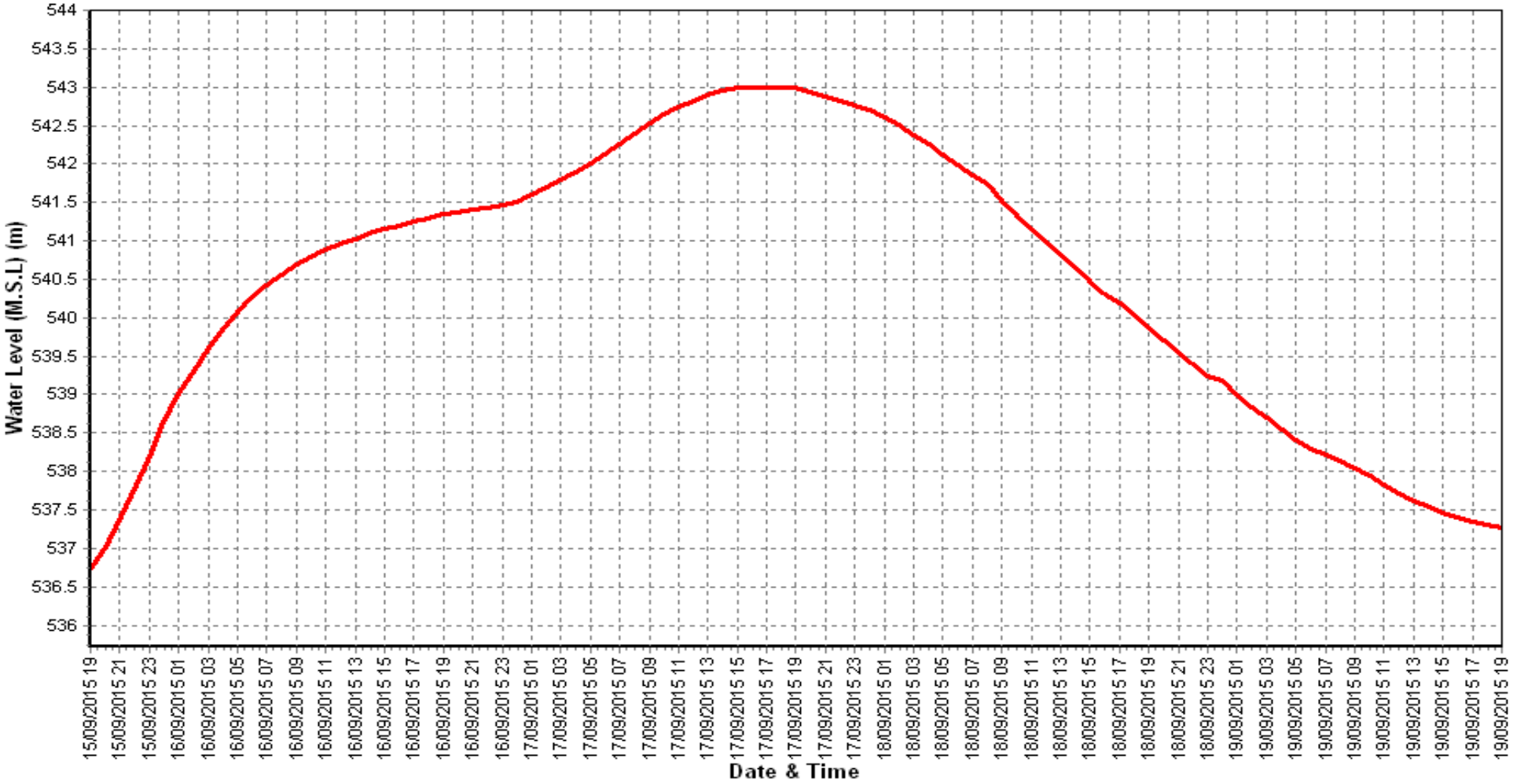
Local River : Journala **Sub-Division : Indravati SD, Jagdalpur**



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

Station Name : Murthahandi (AGC40E9) **Division : Lower Godavari Div., Hyderabad**

Local River : Journala **Sub-Division : Indravati SD, Jagdalpur**

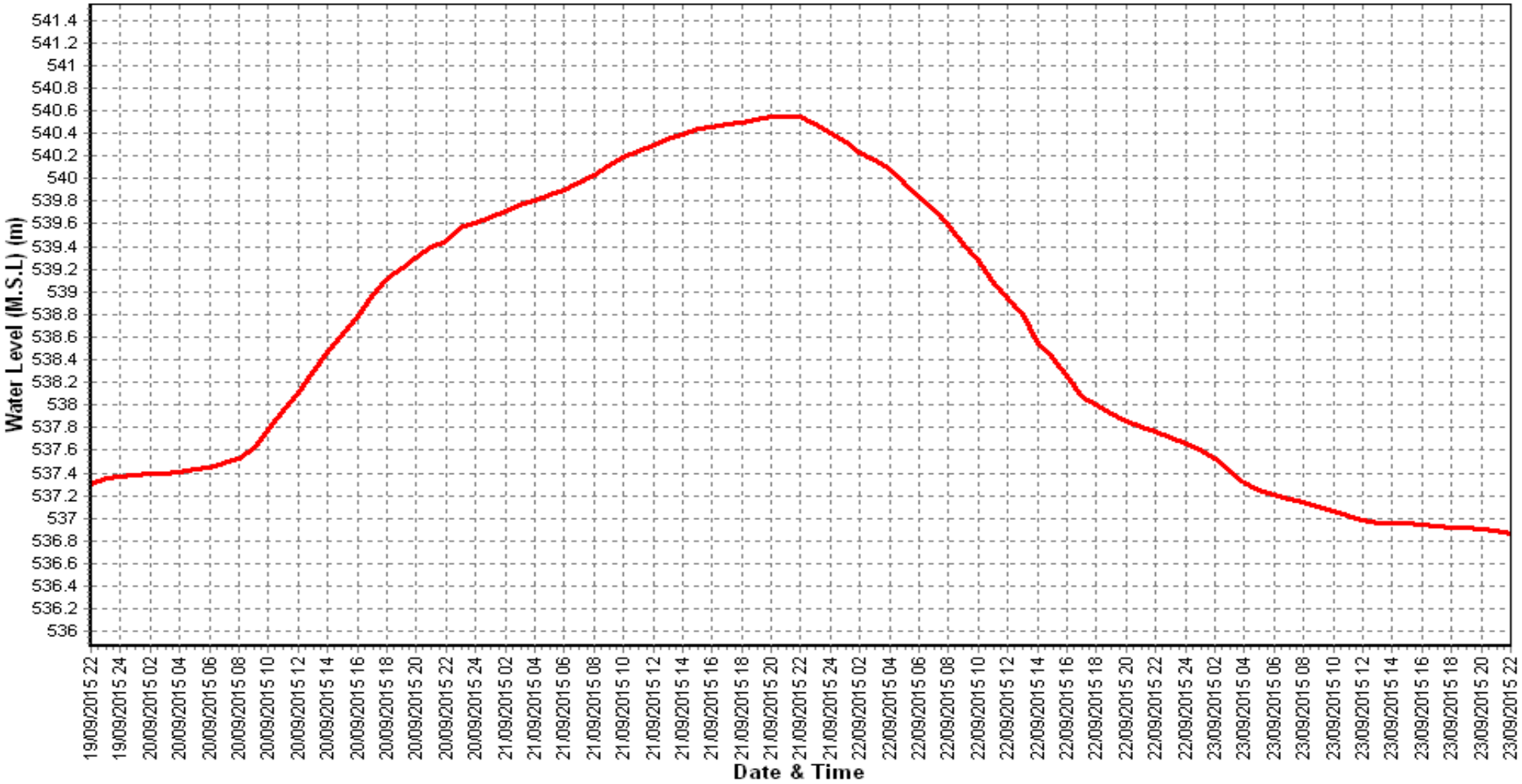


Time Span: 96 Hrs

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

Station Name : Murthahandi (AGC40E9) **Division : Lower Godavari Div., Hyderabad**

Local River : Journala **Sub-Division : Indravati SD, Jagdalpur**

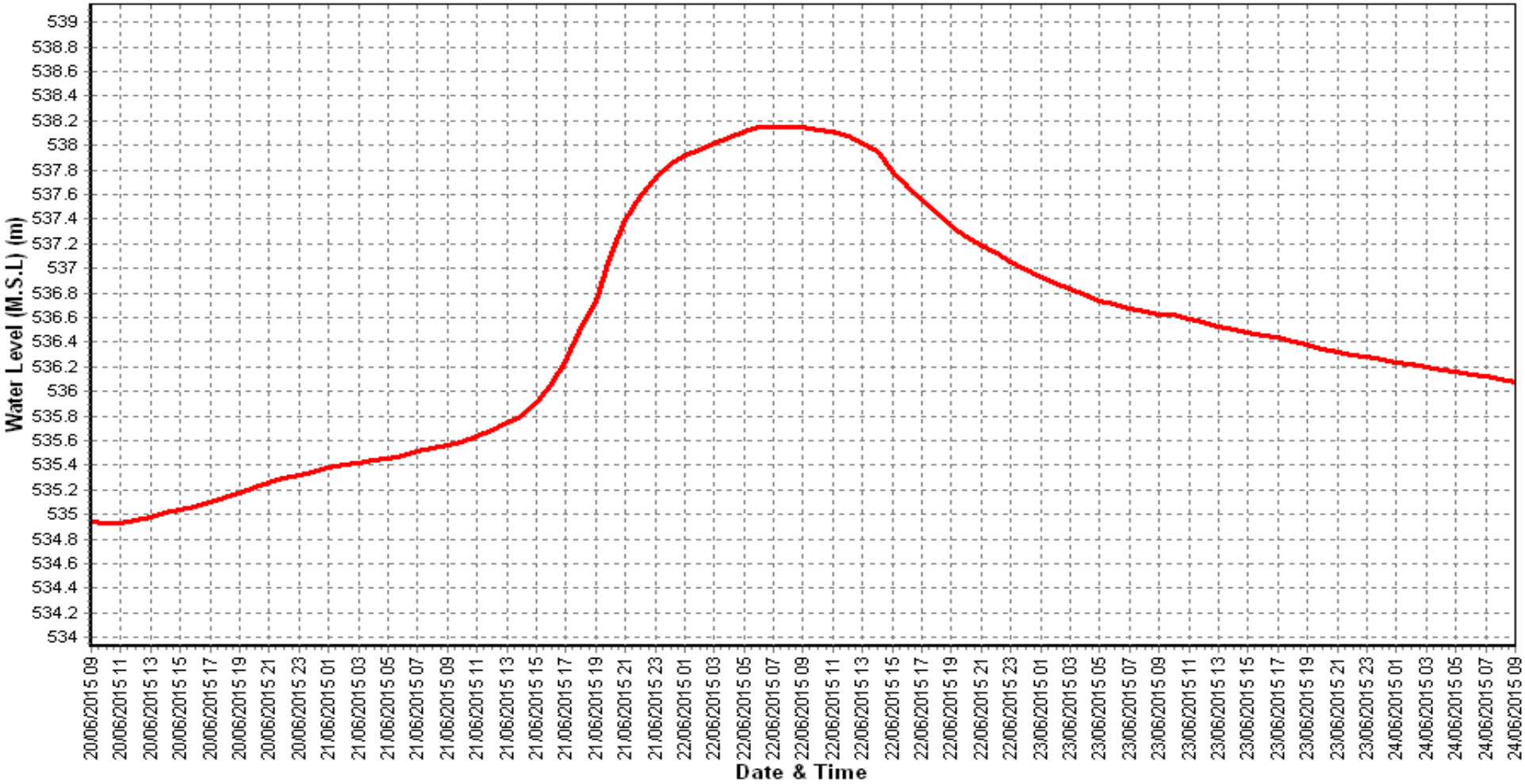


Time Span: 96 Hrs

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

Station Name : Murthahandi (AGC40E9) **Division : Lower Godavari Div., Hyderabad**

Local River : Journala **Sub-Division : Indravati SD, Jagdalpur**



Time Span: 96 Hrs

HISTORY SHEET

Water Year : 2015-2016

Site	**: Nowrangpur**		**Code**	**: AGG00U7**	
State	: Orissa		District	Nowrangpur	
Basin	: Godavari		Independent River	: Godavari	
Tributary	: Indravathi		Sub Tributary	: --'	
Sub-Sub Tributary	: --'		Local River	: Indravathi	
Division	: L Godavari Div., Hyderabad		Sub-Division	: Indravathi S D, Jagdalpur	
Drainage Area	: 3545 Sq. Km.		Bank	: Right	
Latitude	: 19°12'00"		Longitude	: 82°31'00"	
Zero of Gauge (m)	: 550.716 (m.s.l) 549.745 (m.s.l)		24.06.1965 20.06.1971	- 20.06.1971 -	
	Opening Date		Closing Date		
Gauge	: 24.06.1965		**HFL During 2015-16**	**: 557.515**	
			Corres. Discharge	**: 1389.033 Cumes(Estimated)**	
Discharge	: 20.06.1971		**Date & Time of Occurance**	**: 16.09.2015 : 19:00 hrs.**	
Sediment	: 21.06.1971		31.05.2006		
Water Quality	: 01.01.1972		31.05.2006		

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

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1966-1967	1516	559.536	04.09.1966	4.100	551.346	30.05.1967
1967-1968	1617	560.081	02.08.1967	3.700	551.334	06.06.1967
1968-1969	2088	559.526	13.09.1968	6.975	551.211	02.06.1968
1969-1970	2164	560.636	29.07.1969	8.300	551.326	02.06.1969
1970-1971	1615	558.846	27.08.1970	9.200	551.351	08.05.1971
1971-1972	1315	556.985	05.09.1971	6.500	550.365	24.05.1972
1972-1973	1806	557.480	12.09.1972	3.800	550.325	16.06.1972
1973-1974	2610	558.943	07.07.1973	7.200	550.485	01.06.1973
1974-1975	952.0	555.495	17.06.1974	5.100	550.065	15.05.1975
1975-1976	1147	555.965	09.09.1975	8.400	550.240	31.05.1976
1976-1977	2059	557.725	02.08.1976	7.700	550.220	04.06.1976
1977-1978	1958	558.275	13.09.1977	9.400	550.135	10.06.1977
1978-1979	2260	558.505	16.08.1978	7.500	550.330	10.06.1978
1979-1980	1935	557.755	25.06.1979	6.300	550.165	27.05.1980
1980-1981	1628	557.548	18.09.1980	8.339	550.195	24.05.1981
1981-1982	1710	557.615	09.08.1981	8.600	550.275	08.05.1982
1982-1983	1254	556.738	29.08.1982	6.200	550.195	09.06.1982
1983-1984	1203	556.330	26.06.1983	6.400	550.285	10.06.1983
1984-1985	2230	557.915	02.08.1984	6.925	550.185	05.05.1985
1985-1986	1377	556.825	17.08.1985	5.800	550.230	24.05.1986
1986-1987	1649	557.435	14.08.1986	5.388	550.235	14.06.1986

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**
1987-1988	1085	555.530	04.09.1987	5.630	550.285	14.05.1988
1988-1989	560.8	554.200	01.08.1988	4.839	550.230	02.05.1989
1989-1990	1015	555.745	28.08.1989	8.836	550.350	29.04.1990
1990-1991	1765	557.505	05.10.1990	6.022	550.395	19.05.1991
1991-1992	1832	557.645	30.07.1991	6.870	550.325	26.05.1992
1992-1993	2510	558.310	28.07.1992	8.129	550.245	06.05.1993
1993-1994	1240	556.505	02.08.1993	7.403	550.160	11.05.1994
1994-1995	2351	558.955	05.09.1994	13.45	550.355	08.06.1994
1995-1996	1557	557.685	01.09.1995	7.910	550.165	18.05.1996
1996-1997	614.9	554.995	21.07.1996	5.731	550.135	06.06.1996
1997-1998	742.6	554.985	29.08.1997	5.234	549.945	29.05.1998
1998-1999	686.2	554.990	11.07.1998	0.000	549.875	13.04.1999
1999-2000	634.7	554.945	18.06.1999	0.767	549.955	05.05.2000
2000-2001	1991	557.265	31.08.2000	0.264	550.045	02.04.2001
2001-2002	1507	557.085	08.07.2001	0.005	549.995	14.05.2002
2002-2003	584.1	554.785	23.06.2002	0.007	550.005	16.06.2002
2003-2004	1474	557.525	07.09.2003	0.872	550.135	27.06.2003
2004-2005	851.8	555.385	21.08.2004	2.027	550.085	30.03.2005
2005-2006	810.9	555.900	25.07.2005	1.798	550.035	02.05.2006
2006-2007	1300	556.845	30.09.2006	1.472	550.165	20.06.2006
2007-2008	936.9	555.885	29.06.2007	1.703	550.165	01.06.2007
2008-2009	571.1	555.345	10.08.2008	5.299	550.215	04.05.2009
2009-2010	486.2	554.075	20.07.2009	5.032	550.245	15.04.2010
2010-2011	1147	556.445	05.08.2010	5.766	550.295	04.06.2010
2011-2012	365.8	553.920	02.09.2011	0.701	549.925	07.04.2012
2012-2013	665.4	555.245	05.08.2012	0.000	549.995	08.05.2013
2013-2014	1143	557.085	14.06.2013	1.788	550.035	04.04.2014
2014-2015	908.1	555.505	21.09.2014	1.419	549.955	11.04.2015

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

Stage-Discharge Data for the period 2015 - 2016

Station Name : Nowrangpur (AGG00U7) **Division : L Godavari Div., Hyderabad**

Local River : Indravathi **Sub-Division : Indravathi S D, Jagdalpur**

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	550.045	1.846 #	550.545	13.01	550.295	7.632	552.115	158.7	550.865	29.81	550.385	9.947 *
2	550.045	1.846 *	550.455	13.88	550.305	7.493 *	552.075	141.2	550.865	31.45 *	550.385	8.545
3	550.045	2.968	550.435	11.27	550.325	8.961	551.750	113.1	550.955	27.50	550.395	8.419
4	550.345	8.909	550.445	12.69	550.305	7.961	551.355	57.24	550.835	29.77 *	550.385	8.718
5	550.265	7.073	550.785	27.08 *	550.265	6.737	551.020	39.55	550.755	25.52 #	550.375	8.507
6	550.205	6.067	550.470	15.20	550.255	7.199	550.955	36.74 *	550.705	24.61	550.365	8.238
7	550.215	5.130 *	550.355	7.192	550.245	6.587	551.410	60.88	550.670	27.55	550.365	8.242
8	550.175	4.143	550.305	8.398	550.245	6.377	551.240	52.14	550.625	19.40	550.355	8.988 *
9	550.155	4.074	550.275	5.782	550.255	6.128 *	550.995	44.32	550.605	19.91	550.355	7.559
10	550.125	4.017	550.285	5.204	550.335	8.375 #	550.885	37.81	550.585	17.82	550.345	7.817
11	550.105	2.848	550.315	7.890	550.470	12.91 #	550.725	25.61	550.565	16.66 *	550.335	8.375 *
12	550.115	3.474	550.325	8.076 *	550.685	22.05 #	550.705	22.92	550.525	13.75	550.325	7.736
13	550.190	5.698	550.315	7.129	551.300	67.91	550.655	20.63 *	550.505	14.40	550.315	7.254
14	550.205	4.894 *	550.315	7.136	551.870	101.0	550.675	22.36	550.490	12.28	550.315	7.060
15	550.195	4.663 #	550.755	30.05	551.275	58.71 *	551.110	46.78 #	550.505	19.32	550.315	7.782 *
16	550.255	7.518	550.895	39.70	550.915	34.34 *	556.895	1184 *	550.495	12.32	550.315	7.409
17	550.445	15.47	551.440	74.67	551.395	65.98	556.245	935.7	550.475	11.68	550.315	7.219
18	550.475	16.58	550.985	38.60 *	551.285	52.65	552.630	216.4	550.485	13.48 *	550.315	6.686
19	550.395	11.85	550.665	21.10 *	550.925	28.35	552.200	125.6	550.465	11.51	550.335	7.992
20	550.435	13.36	550.545	20.97	550.785	24.46	554.245	484.4 *	550.445	10.28	550.335	7.293
21	551.785	103.7 *	550.605	18.38 #	550.910	33.08	555.095	774.6	550.435	10.70	550.315	6.899
22	552.185	147.3 #	550.635	19.72 #	550.860	33.81	552.485	191.3	550.435	11.65 *	550.305	7.493 *
23	551.325	55.13	550.615	23.09	551.185	52.04 *	551.760	89.56	550.425	9.752	550.295	7.002
24	550.925	34.94 #	550.585	20.52	551.365	65.73	551.500	69.97	550.435	11.65 *	550.285	6.603
25	550.645	20.17 *	550.625	22.57	551.210	62.88	551.345	64.17 *	550.445	12.00 *	550.285	6.762
26	550.740	32.44	550.805	28.14 *	550.955	42.65	551.310	61.41 #	550.425	11.30 #	550.285	5.447
27	550.545	12.76	550.690	22.29 #	552.925	236.5	551.265	57.95 *	550.425	10.94	550.275	5.414
28	550.475	13.10 *	550.555	20.33	552.440	189.9	551.085	44.67	550.405	9.759	550.280	7.534
29	550.400	13.73	550.405	13.72	551.950	127.2	550.965	36.20	550.405	9.174	550.285	6.931 *
30	550.765	18.58	550.345	7.992	551.445	72.35 *	550.950	32.45	550.385	8.820	550.305	6.802
31			550.315	10.32	551.560	82.35 #			550.385	8.821		
-Daily Mean												
Ten-Dai	550.162	4.607	550.435	11.97	550.283	7.345	551.380	74.17	550.746	25.33	550.371	8.498
Ten-Dai	550.281	8.636	550.655	25.53	551.091	46.84	552.609	308.4	550.495	13.57	550.322	7.480
Ten-Da	550.979	45.18	550.562	18.82	551.528	90.77	551.776	142.2	550.419	10.41	550.292	6.689
Monthly												
Min.	550.045	1.846	550.275	5.204	550.245	6.128	550.655	20.63	550.385	8.820	550.275	5.414
Max.	552.185	147.3	551.440	74.67	552.925	236.5	556.895	1184	550.955	31.45	550.395	9.947
Mean	550.474	19.48	550.551	18.78	550.985	49.69	551.922	174.9	550.549	16.24	550.328	7.556

Annual Runoff in MCM = 800 Annual Runoff in mm = 226

Peak Observed Discharge = 935.7 cumecs on 17/09/2015 Corres. Water Level :556.245 m

Lowest Observed Discharge = 1.249 cumecs on 18/04/2016 Corres. Water Level :550.025 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 : Nowrangpur (AGG00U7) **Division : L Godavari Div., Hyderabad**

Local River : Indravathi **Sub-Division : Indravathi S D, Jagdalpur**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	550.275	5.676	550.155	4.960	550.135	3.429	550.085	2.643	550.085	2.845	550.045	1.846 *
2	550.285	6.293	550.155	4.783	550.135	3.430	550.065	2.344	550.085	2.402	550.045	1.784
3	550.285	5.951	550.155	3.793 *	550.135	3.842	550.065	2.350	550.105	2.826 *	550.045	1.681
4	550.275	5.483	550.155	4.155	550.135	3.841	550.055	1.978	550.095	1.809	550.055	1.785
5	550.275	5.977	550.155	3.804	550.125	3.360	550.055	2.043	550.085	2.884	550.075	2.375
6	550.275	6.658 *	550.145	3.900	550.125	3.377	550.055	1.995 *	550.075	2.604	550.075	2.449
7	550.265	5.557	550.145	3.891	550.115	3.008 *	550.045	1.837	550.105	2.807	550.075	2.262
8	550.265	5.281	550.145	4.076	550.115	3.089	550.045	1.860	550.095	2.649 *	550.075	2.311 *
9	550.265	4.914	550.135	3.390 *	550.115	3.149	550.045	1.621	550.065	2.150 *	550.075	2.442
10	550.255	4.666	550.135	3.390 *	550.105	3.205	550.055	1.775	550.045	1.846 *	550.075	1.892
11	550.245	4.886	550.135	3.982	550.105	2.964	550.055	1.483	550.035	1.702	550.075	1.846
12	550.245	5.871 *	550.135	4.061	550.095	2.935	550.055	1.995 *	550.035	1.725	550.065	1.919
13	550.245	5.871 *	550.135	4.187	550.105	2.826 *	550.055	1.995 *	550.025	1.389	550.065	1.839
14	550.245	5.286	550.135	3.542	550.095	2.649 *	550.055	1.633	550.025	1.563 *	550.065	2.150 *
15	550.255	5.140	550.135	3.390 *	550.095	2.708	550.065	2.289	550.025	1.718	550.085	2.477 *
16	550.255	5.532	550.135	3.355	550.095	2.772	550.105	2.933	550.025	1.396	550.085	2.768
17	550.255	5.825	550.135	3.390 *	550.085	2.768	550.165	4.570	550.025	1.563 *	550.155	3.720
18	550.245	5.708	550.135	4.001	550.085	2.607	550.175	4.628	550.025	1.249	550.135	3.612
19	550.225	4.983	550.135	4.161	550.085	2.210	550.145	3.873	550.025	1.765	550.125	3.680
20	550.225	5.372 *	550.135	4.122	550.075	2.275	550.125	3.196 *	550.025	1.563 *	550.115	3.252
21	550.225	4.791	550.135	4.475	550.075	2.311 *	550.105	3.267	550.025	1.270	550.105	2.826 *
22	550.215	4.363	550.135	4.064	550.075	2.123	550.095	2.614	550.015	1.348	550.115	3.008 *
23	550.215	4.340	550.135	4.032	550.075	2.103	550.075	2.868	550.025	1.315	550.125	3.382
24	550.215	5.130 *	550.135	3.390 *	550.065	1.832	550.055	1.956	550.025	1.563 *	550.125	3.298
25	550.215	5.130 *	550.135	3.927	550.065	2.136	550.045	1.846 *	550.025	1.259	550.145	3.798
26	550.205	4.304	550.135	3.390 *	550.065	2.141	550.045	1.684	550.025	1.290	550.125	3.407
27	550.195	4.663 *	550.135	4.010	550.065	2.329	550.045	1.846 *	550.035	1.348	550.095	2.643
28	550.185	4.473	550.135	3.420	550.065	2.150 *	550.045	1.798	550.055	1.332	550.085	2.855
29	550.175	4.595	550.135	3.353	550.065	2.407	550.045	1.936	550.055	1.796	550.095	2.649 *
30	550.165	4.563	550.135	3.269			550.035	1.625	550.055	1.975	550.085	2.697
31	550.155	4.845	550.135	3.390 *			550.045	1.892			550.065	1.740
-Daily M												
Ten-Dai	550.272	5.646	550.148	4.014	550.124	3.373	550.057	2.045	550.084	2.482	550.064	2.083
Ten-Dai	550.244	5.447	550.135	3.819	550.092	2.671	550.100	2.860	550.027	1.563	550.097	2.726
Ten-Da	550.197	4.654	550.135	3.702	550.068	2.170	550.058	2.121	550.034	1.450	550.106	2.937
Monthly												
Min.	550.155	4.304	550.135	3.269	550.065	1.832	550.035	1.483	550.015	1.249	550.045	1.681
Max.	550.285	6.658	550.155	4.960	550.135	3.842	550.175	4.628	550.105	2.884	550.155	3.798
Mean	550.236	5.23	550.139	3.84	550.096	2.758	550.071	2.335	550.048	1.832	550.089	2.593

Peak Computed Discharge = 1184 cumecs on 16/09/2015 Corres. Water Level :556.895 m

Lowest Computed Discharge = 1.563 cumecs on 14/04/2016 Corres. Water Level :550.025 m

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

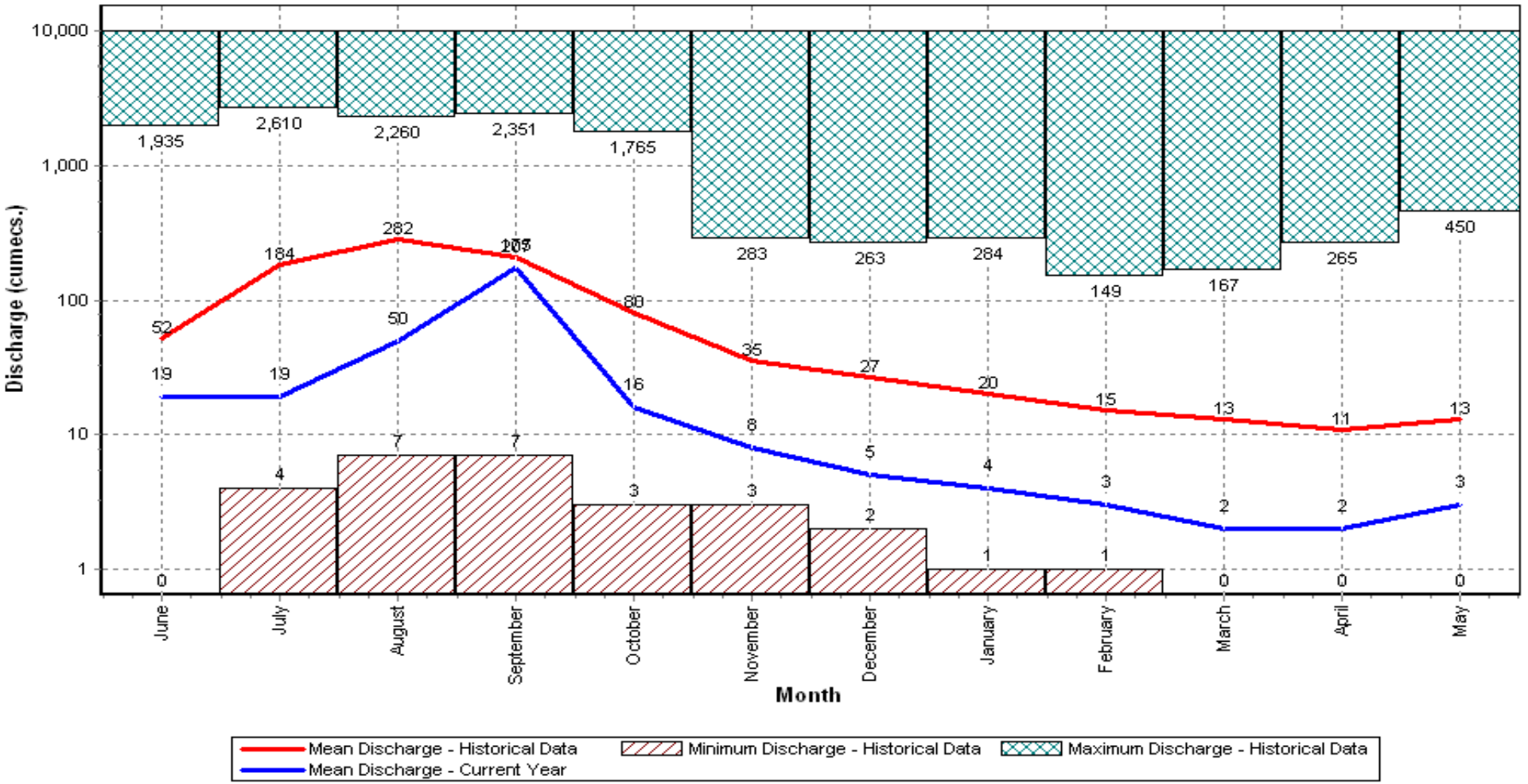
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016

Station Name : Nowrangpur (AGG00U7) | **Data considered : 1966-2016** | **Division : L Godavari Div., Hyderabad**

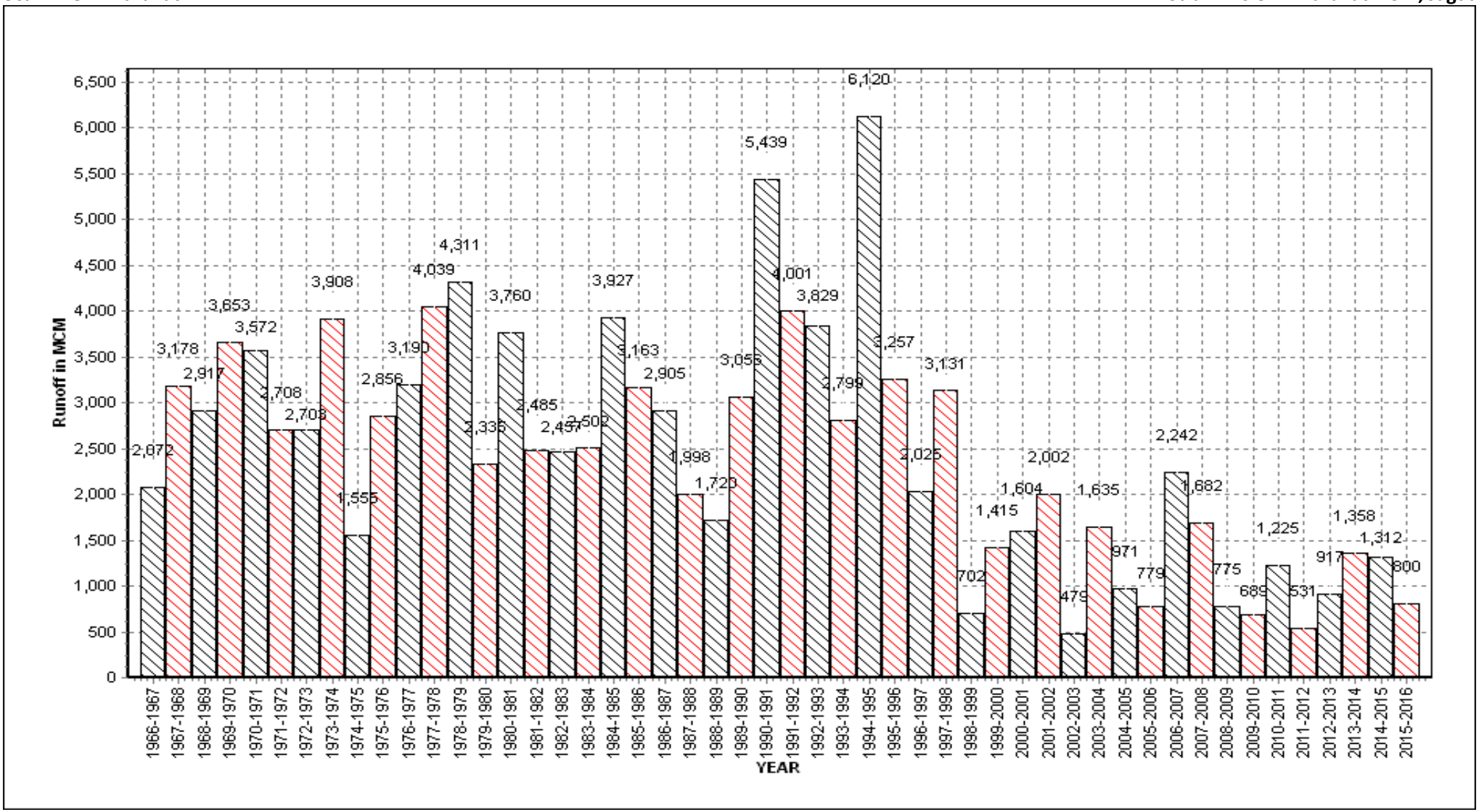
Local River : Indravathi | **Sub-Division : Indravathi S D, Jagdalpur**



Annual Runoff Values for the period: 1966 - 2016

Station Name : Nowrangpur (AGG00U7) **Division : L Godavari Div., Hyderabad**

Local River : Indravathi **Sub-Division : Indravathi S D, Jagdalpur**

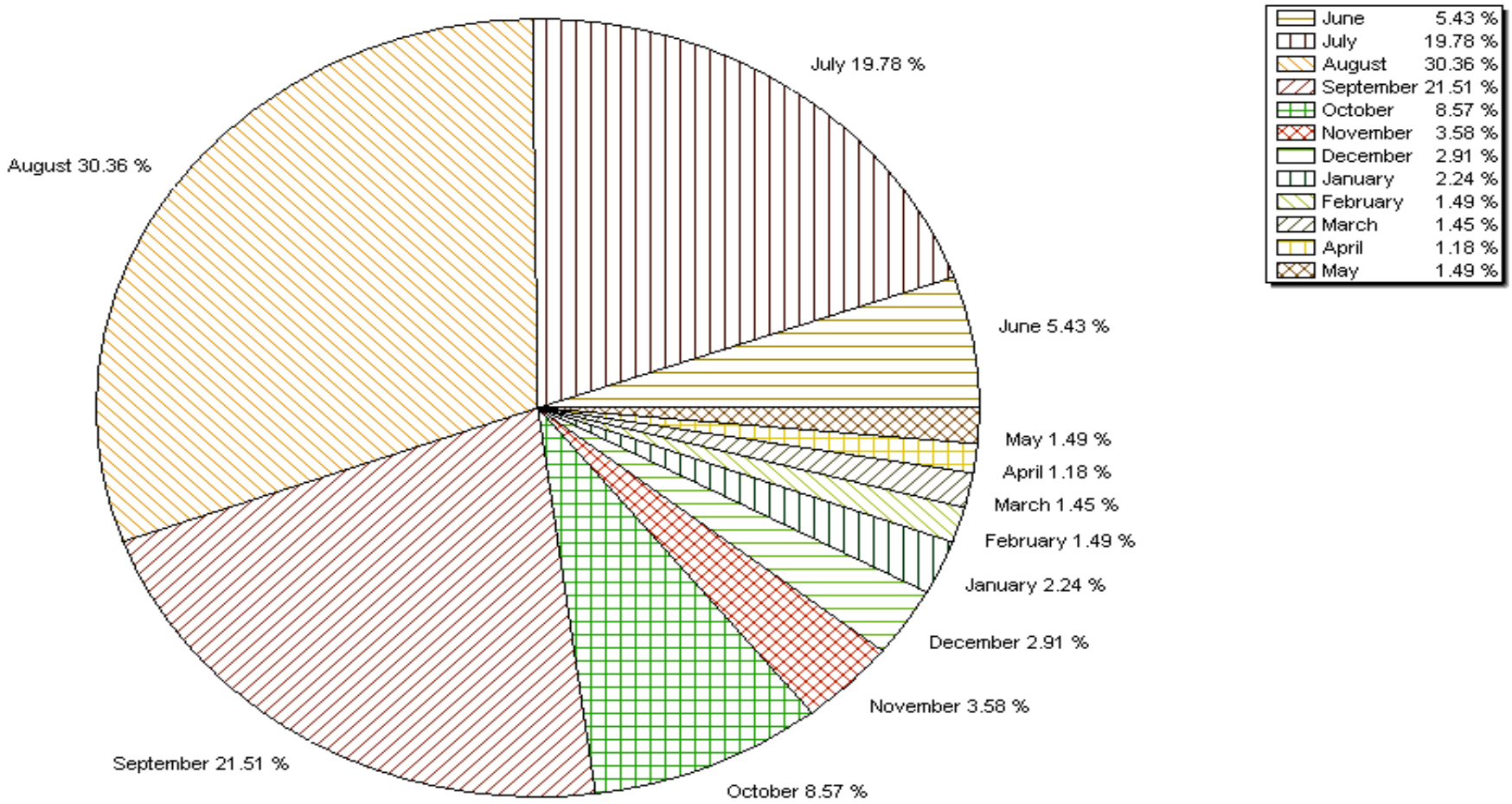


Note: Missing values have not been considered while arriving at Annual Runoff

Monthly Average Runoff based on period : 1966-2015

Station Name : Nowrangpur (AGG00U7) **Division : L Godavari Div., Hyderabad**

Local River : Indravathi **Sub-Division : Indravathi S D, Jagdalpur**



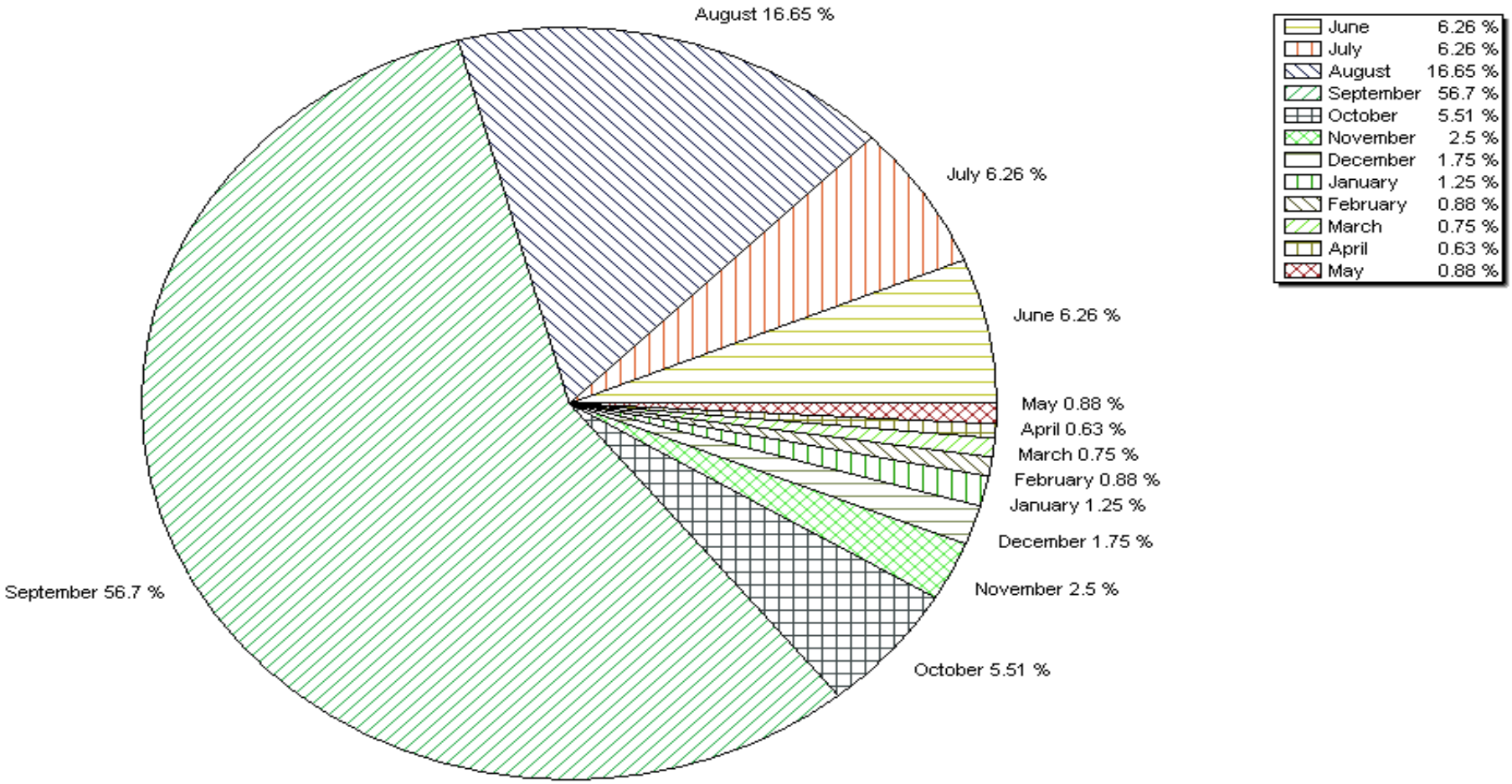
Monthly Runoff for the Year : 2015-2016

Station Name : Nowrangpur (AGG00U7)

Local River : Indravathi

Division : L Godavari Div., Hyderabad

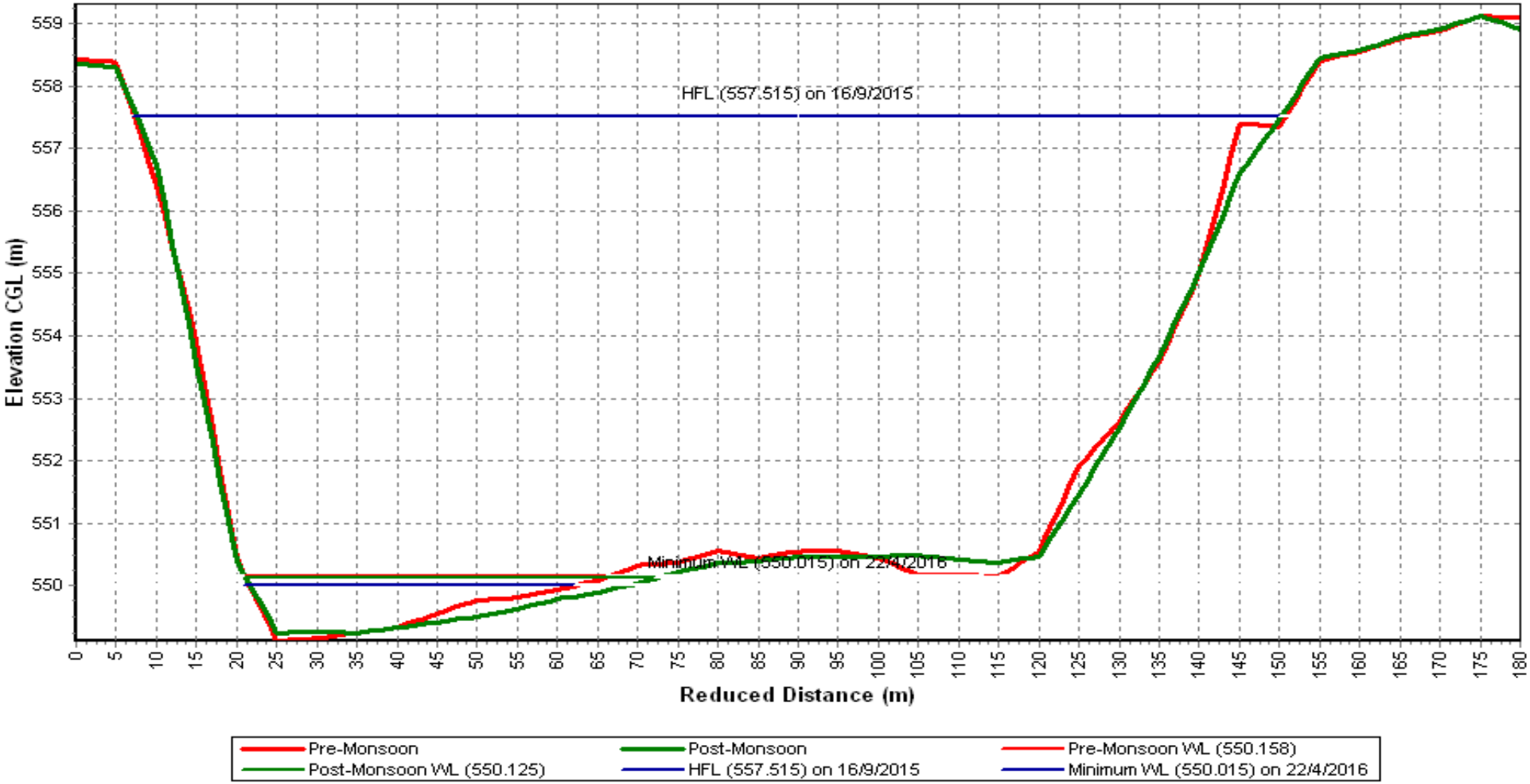
Sub-Division : Indravathi S D, Jagdalpur



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

Station Name : Nowrangpur (AGG00U7) **Division : L Godavari Div., Hyderabad**

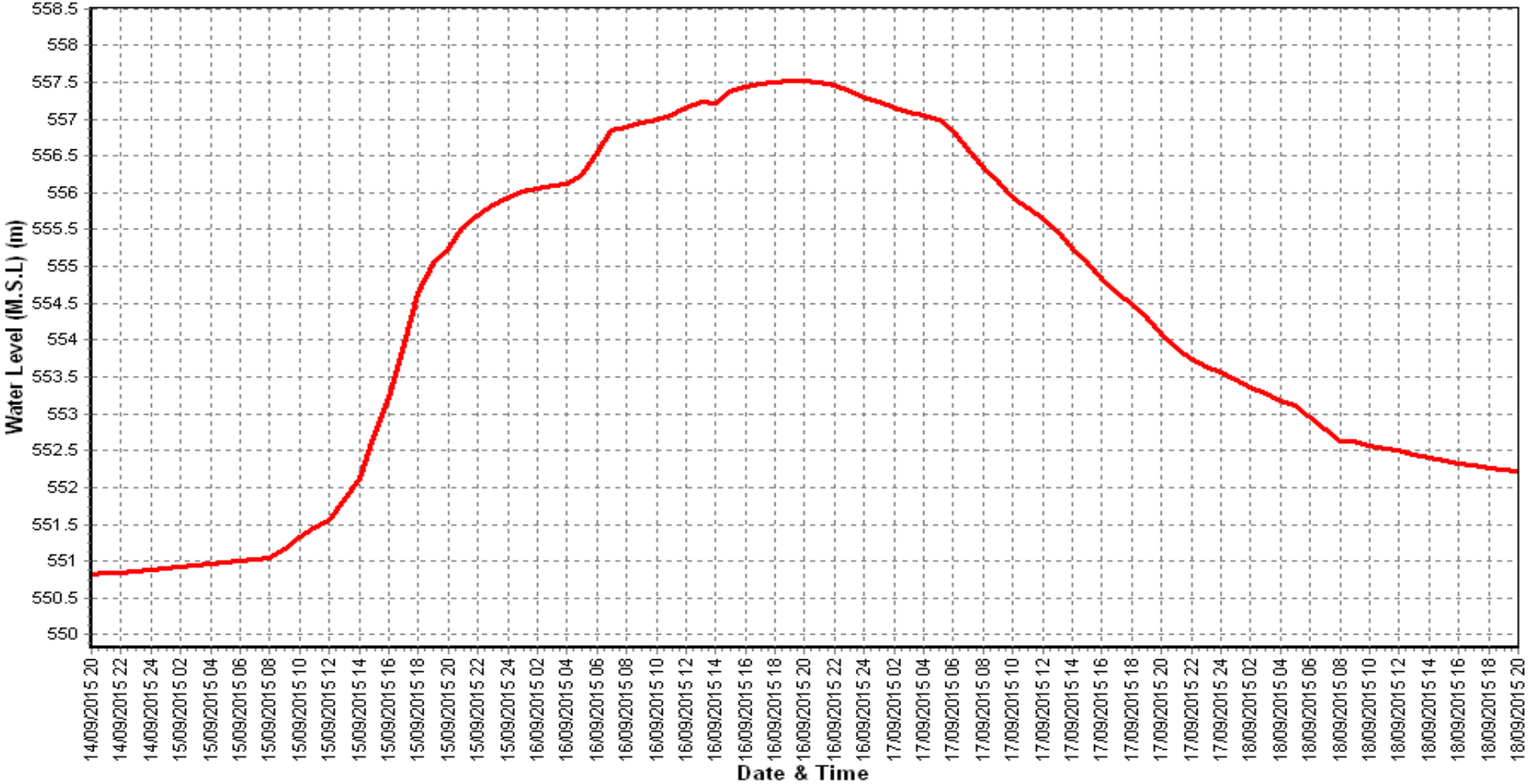
Local River : Indravathi **Sub-Division : Indravathi S D, Jagdalpur**



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

Station Name : Nowrangpur (AGG00U7) **Division : L Godavari Div., Hyderabad**

Local River : Indravathi **Sub-Division : Indravathi S D, Jagdalpur**

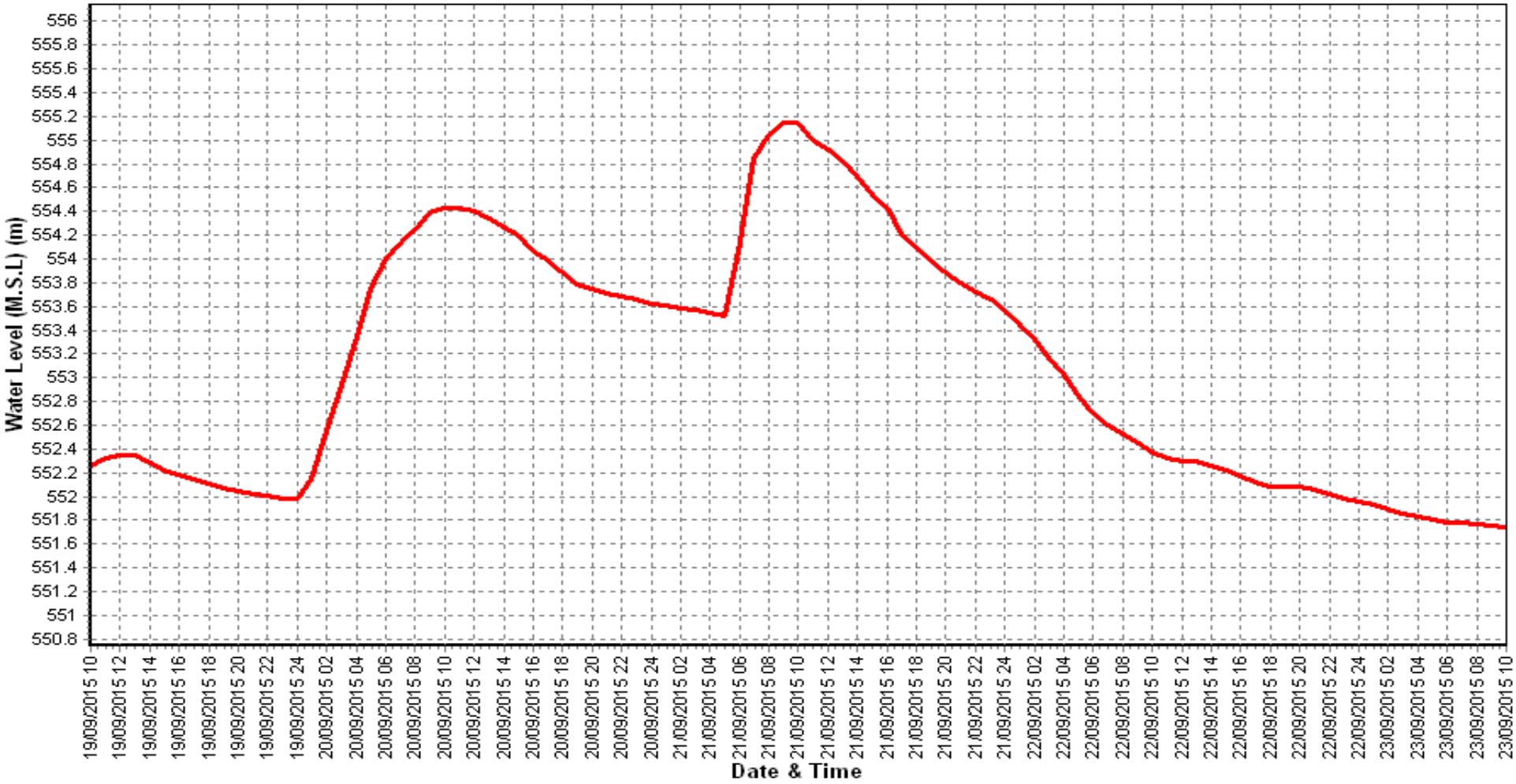


Time Span: 96 Hrs

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

Station Name : Nowrangpur (AGG00U7) **Division : L Godavari Div., Hyderabad**

Local River : Indravathi **Sub-Division : Indravathi S D, Jagdalpur**

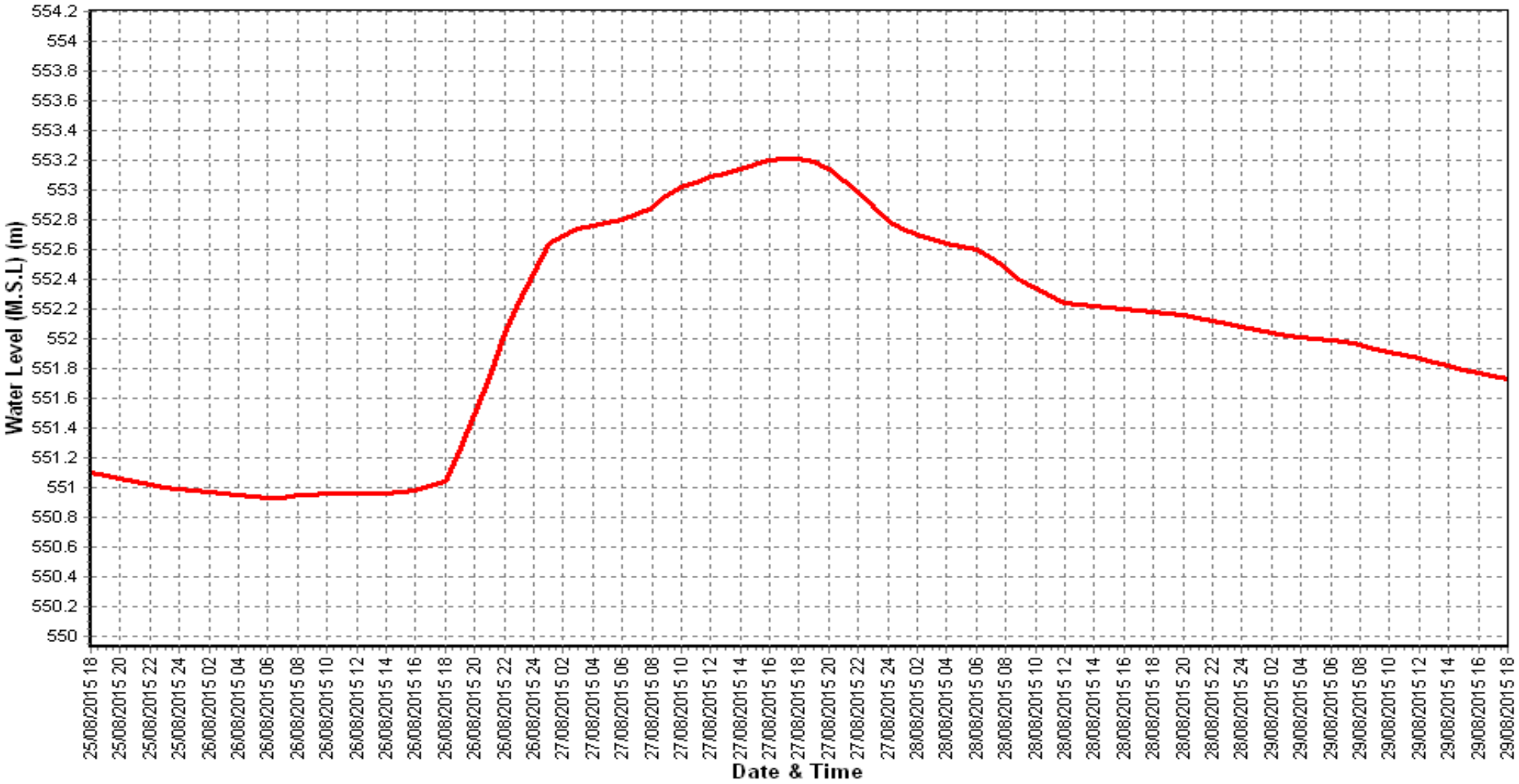


Time Span: 96 Hrs

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

Station Name : Nowrangpur (AGG00U7) **Division : L Godavari Div., Hyderabad**

Local River : Indravathi **Sub-Division : Indravathi S D, Jagdalpur**



Time Span: 96 Hrs

HISTORY SHEET

Water Year : 2015-2016

Site	:	**Somanpally (Seasonal)**	**Code**	:	**AGI00C3**
State	:	Telangana	District		Karimnagar
Basin	:	Godavari	Independent River	:	Godavari
Tributary	:	Maner	Sub Tributary	:	-
Sub-Sub Tributary	:	-	Local River	:	Maner
Division	:	Lower Godavari Div., Hyderabad	Sub-Division	:	Lower Godavari 1, Bhadrachalam
Drainage Area	:	12691 Sq. Km.	Bank	:	Left
Latitude	:	18°37'12"	Longitude	:	79°48'12"
Zero of Gauge (m)	:	117.975 (m.s.l) 121.444 (m.s.l) 121.000 (m.s.l)	21.11.1965 01.06.1968 01.06.1997	-	31.05.1968 31.05.1997
		Opening Date	Closing Date		
Gauge	:	01.07.1964	HFL During 2015-16	:	123.800
			Corres. Discharge	:	518.383 Cumes(Estimated)
Discharge	:	17.03.1967	Date & Time of	:	22.06.2015
			Occurance	:	06:00 hrs.
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**
1967-1968	752.4	121.565	30.08.1967	0.068	118.340	11.06.1967
1968-1969	387.5	123.761	27.07.1968	0.020	121.789	19.06.1968
1969-1970	1693	125.184	21.09.1969	0.020	121.969	19.06.1969
1970-1971	1238	124.749	19.08.1970	0.177	121.919	09.05.1971
1971-1972	390.7	123.804	22.10.1971	0.040	121.874	27.05.1972
1972-1973	327.2	123.649	06.07.1972	0.011	121.959	27.05.1973
1973-1974	2254	125.519	04.10.1973	0.100	121.974	15.06.1973
1974-1975	623.1	124.004	24.10.1974	0.083	121.889	18.05.1975
1975-1976	1137	124.769	11.09.1975	0.049	121.894	01.06.1975
1976-1977	3457	126.339	21.07.1976	0.046	122.019	20.06.1976
1977-1978	807.3	124.329	02.09.1977	0.070	121.984	25.05.1978
1978-1979	4487	126.594	15.08.1978	0.070	121.984	02.06.1978
1979-1980	745.1	124.254	04.08.1979	0.090	121.979	07.05.1980
1980-1981	556.6	123.989	21.08.1980	0.047	122.024	20.03.1981
1981-1982	1965	125.254	05.08.1981	0.004	121.944	16.05.1982
1982-1983	225.2	123.424	20.07.1982	0.102	121.914	19.06.1982
1983-1984	6359	127.294	06.10.1983	0.100	122.049	15.06.1983
1984-1985	274.9	123.229	01.08.1984	0.200	121.314	30.05.1985
1985-1986	181.0	122.964	02.08.1985	0.000	121.339	01.04.1986
1986-1987	3086	126.614	14.08.1986	0.036	121.384	07.07.1986

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**
1987-1988	1190	125.109	09.07.1987	0.063	121.504	08.06.1987
1988-1989	2504	125.594	03.09.1988	0.310	121.574	31.05.1989
1989-1990	3360	127.344	24.07.1989	0.114	121.574	04.06.1989
1990-1991	2336	126.144	31.08.1990	4.386	121.904	14.05.1991
1991-1992	449.2	123.794	13.07.1991	0.031	121.594	06.04.1992
1992-1993	414.3	123.404	16.08.1992	0.047	121.574	01.06.1992
1993-1994	1042	124.794	29.07.1993	0.007	121.484	20.05.1994
1994-1995	595.1	124.074	23.08.1994	0.011	121.494	01.06.1994
1995-1996	2536	126.324	20.10.1995	0.067	121.524	11.06.1995
1996-1997	878.7	124.554	26.08.1996	0.470	121.974	03.06.1996
1997-1998	163.0	122.680	31.10.1997	0.039	121.390	27.01.1998
1998-1999	840.6	124.180	16.10.1998	0.047	121.390	11.06.1998
1999-2000	782.2	124.020	12.09.1999	0.033	121.260	18.04.2000
2000-2001	2377	126.000	28.08.2000	0.084	121.630	27.05.2001
2001-2002	362.8	123.250	22.08.2001	0.031	121.560	26.04.2002
2002-2003	821.0	124.160	25.08.2002	0.000		22.04.2003
2003-2004	244.7	122.990	25.10.2003	0.000		12.05.2004
2004-2005	25.79	122.020	06.08.2004	0.000		25.01.2005
2005-2006	1645	125.150	22.09.2005	0.000		21.02.2006
2006-2007	3336	126.610	05.08.2006	0.000	121.525	24.07.2006
2007-2008	952.8	124.390	18.09.2007	0.373	121.590	06.06.2007
2008-2009	1490	124.980	11.08.2008	0.000		10.03.2009
2009-2010	530.7	123.770	03.09.2009	0.000	121.470	25.07.2009
2010-2011	2884	126.300	30.07.2010	0.000		29.04.2011
2011-2012	171.3	122.920	18.09.2011	0.000	121.425	08.01.2012
2012-2013	1059	124.550	05.09.2012	0.000		17.05.2013
2013-2014	2803	125.940	27.10.2013	0.000	121.510	26.03.2014
2014-2015	431.4	123.400	08.09.2014	0.000	121.400	15.08.2014

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

Stage-Discharge Data for the period 2015 - 2016

Station Name : Somanpally (Seasonal) (AGI00C3) **Division : Lower Godavari Div., Hyderabad**

Local River : Maner **Sub-Division : Lower Godavari 1, Bhadrachalam**

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	121.000	0.000	121.990	19.46 *	121.660	2.253	121.790	5.781	121.700	4.776	121.540	1.009 *
2	121.000	0.000	122.190	41.40 *	121.630	0.928 *	121.780	6.332	121.720	4.963 *	121.520	0.666
3	121.000	0.000	122.150	36.35 *	121.610	0.872	121.760	5.961	121.680	3.783	121.500	0.547
4	121.000	0.000	122.000	20.36 *	121.590	0.769	121.740	4.664	121.670	2.783 *	121.490	0.513
5	121.000	0.000	121.880	10.91 *	121.560	0.105	121.820	9.474	121.680	4.094	121.490	0.576
6	121.000	0.000	121.810	6.773 *	121.550	0.082	121.930	14.49 *	121.650	3.421	121.500	0.557
7	121.000	0.000	121.750	4.028 *	121.550	0.311	121.805	7.149	121.660	3.519	121.500	0.548
8	121.000	0.000	121.740	3.643 *	121.550	0.238 *	121.730	4.309	121.630	2.811	121.500	0.548 *
9	121.000	0.000	121.700	2.307 *	121.548	0.242 *	121.660	2.827	121.600	1.929	121.510	0.608
10	121.000	0.000	121.690	2.025 *	121.580	0.414	121.620	1.638	121.590	1.545	121.510	0.618
11	121.000	0.000	121.670	2.626	121.600	0.761	121.610	1.543	121.570	1.310 *	121.510	0.618 *
12	121.000	0.000	121.660	2.611	122.300	56.98 *	121.840	8.424 *	121.560	1.110	121.500	0.610
13	121.000	0.000	121.640	1.810	122.380	69.87 *	122.130	33.95 *	121.550	0.996	121.510	0.629
14	121.000	0.000	121.645	1.989	122.205	42.05	122.165	44.42	121.520	0.572	121.510	0.711
15	121.000	0.000	121.615	1.133	122.080	28.31 *	122.300	56.98 *	121.510	0.475	121.510	0.711 *
16	121.000	0.000	121.640	1.621	121.960	16.88 *	122.330	61.66 *	121.570	1.067	121.530	0.791
17	121.660	1.302 *	121.660	2.118	121.825	9.815	122.950	200.0 *	121.520	0.483	121.540	0.855
18	121.590	0.336 *	121.650	2.026	121.780	5.473	123.130	255.0 *	121.540	0.944 *	121.530	0.799
19	122.120	32.78 *	121.630	0.961 *	121.750	4.276	122.830	167.0 *	121.530	0.754	121.540	0.874
20	122.280	53.96 *	121.600	0.831	121.960	15.04	122.480	87.85 *	121.530	0.773	121.540	0.878
21	123.130	255.0 *	121.590	0.772	121.925	12.04	122.270	52.48 *	121.530	0.793	121.540	0.859
22	123.710	477.6 *	121.590	0.749	121.910	12.17	122.120	36.66	121.530	0.793 *	121.540	0.859 *
23	122.870	177.7 *	121.725	3.418	122.040	24.17 *	122.040	28.67	121.540	0.829	121.530	0.800
24	122.470	85.96 *	121.900	10.16	121.995	15.04	121.980	18.12	121.540	0.829 *	121.530	0.717
25	122.230	46.77 *	121.910	10.03	121.845	9.097	121.910	13.00 *	121.540	0.829 *	121.530	0.717 *
26	122.120	32.78 *	121.870	9.668 *	121.750	5.774	121.850	9.909	121.560	1.260	121.530	0.609
27	122.030	23.19 *	121.820	9.167	121.710	4.620	121.850	9.016 *	121.560	1.185	121.530	0.593
28	121.970	17.72 *	122.070	28.07	121.680	2.416	121.800	7.380	121.560	1.240	121.530	0.607
29	121.900	12.28 *	121.915	10.14	121.880	10.27	121.760	5.697	121.560	1.131	121.510	0.639 *
30	122.000	20.36 *			121.980	18.58 *	121.730	4.776	121.550	1.015	121.510	0.639
31			121.710	4.180	121.920	11.51			121.560	1.301		
n-Daily Mean												
I Ten-Daily	121.000	0.000	121.890	14.73	121.583	0.621	121.764	6.263	121.658	3.362	121.506	0.619
II Ten-Daily	121.365	8.838	121.641	1.773	121.984	24.95	122.377	91.68	121.540	0.848	121.522	0.748
III Ten-Daily	122.443	114.9	121.810	8.635	121.876	11.43	121.931	18.57	121.548	1.019	121.528	0.704
Monthly												
Min.	121.000	0.000	121.590	0.749	121.548	0.082	121.610	1.543	121.510	0.475	121.490	0.513
Max.	123.710	477.6	122.190	41.40	122.380	69.87	123.130	255.0	121.720	4.963	121.540	1.009
Mean	121.603	41.26	121.780	8.378	121.816	12.3	122.024	38.84	121.581	1.72	121.519	0.69

Annual Runoff in MCM = 269 Annual Runoff in mm = 21

Peak Observed Discharge = 44.42 cumecs on 14/09/2015 Corres. Water Level :122.165 m

Lowest Observed Discharge = 0.000 cumecs on 01/06/2015 Corres. Water Level :121 m

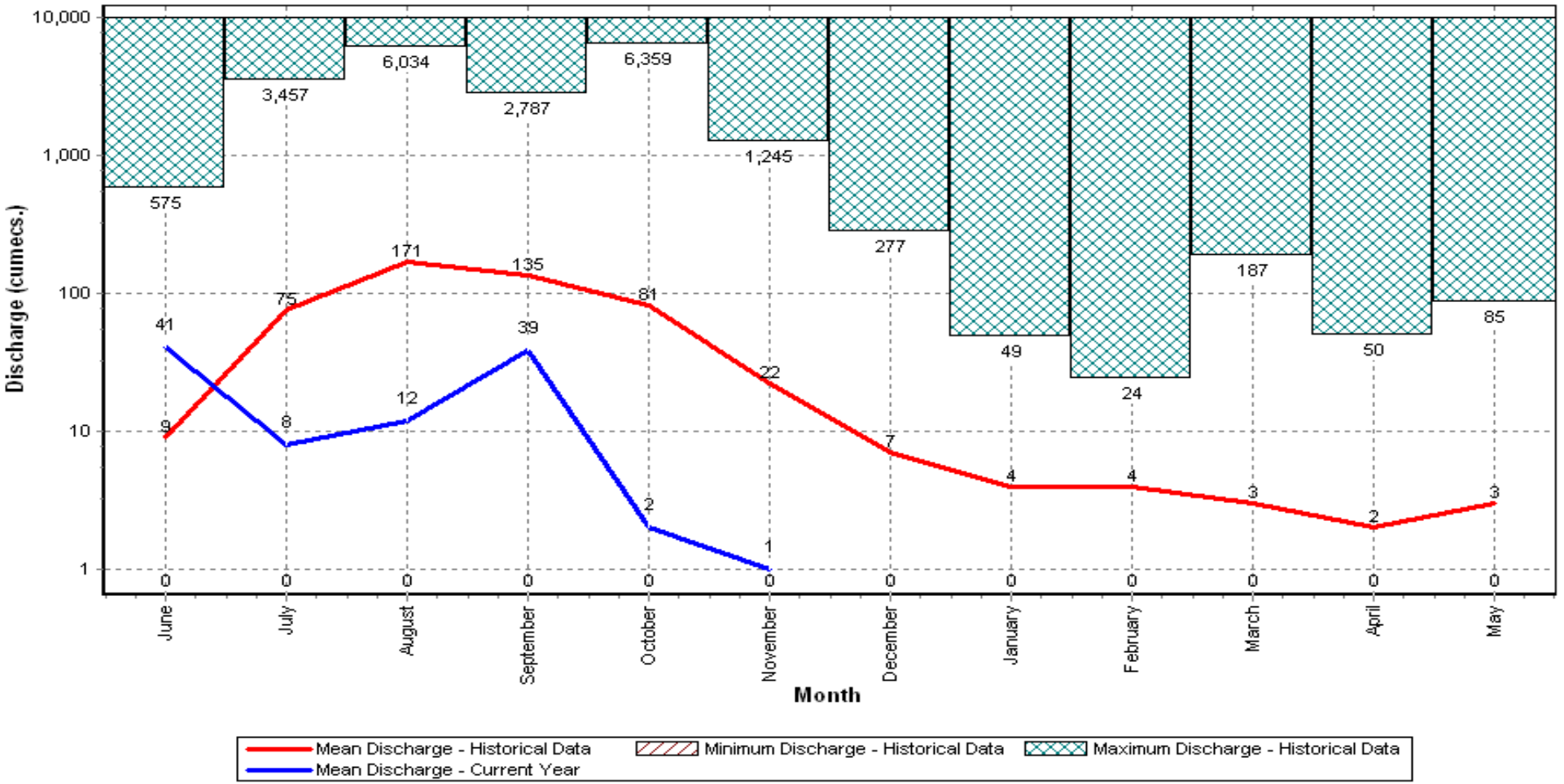
Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016

Station Name : Somanpally (Seasonal) (AGI00C3) **Data considered : 1967-2016** **Division : Lower Godavari Div., Hyderabad**

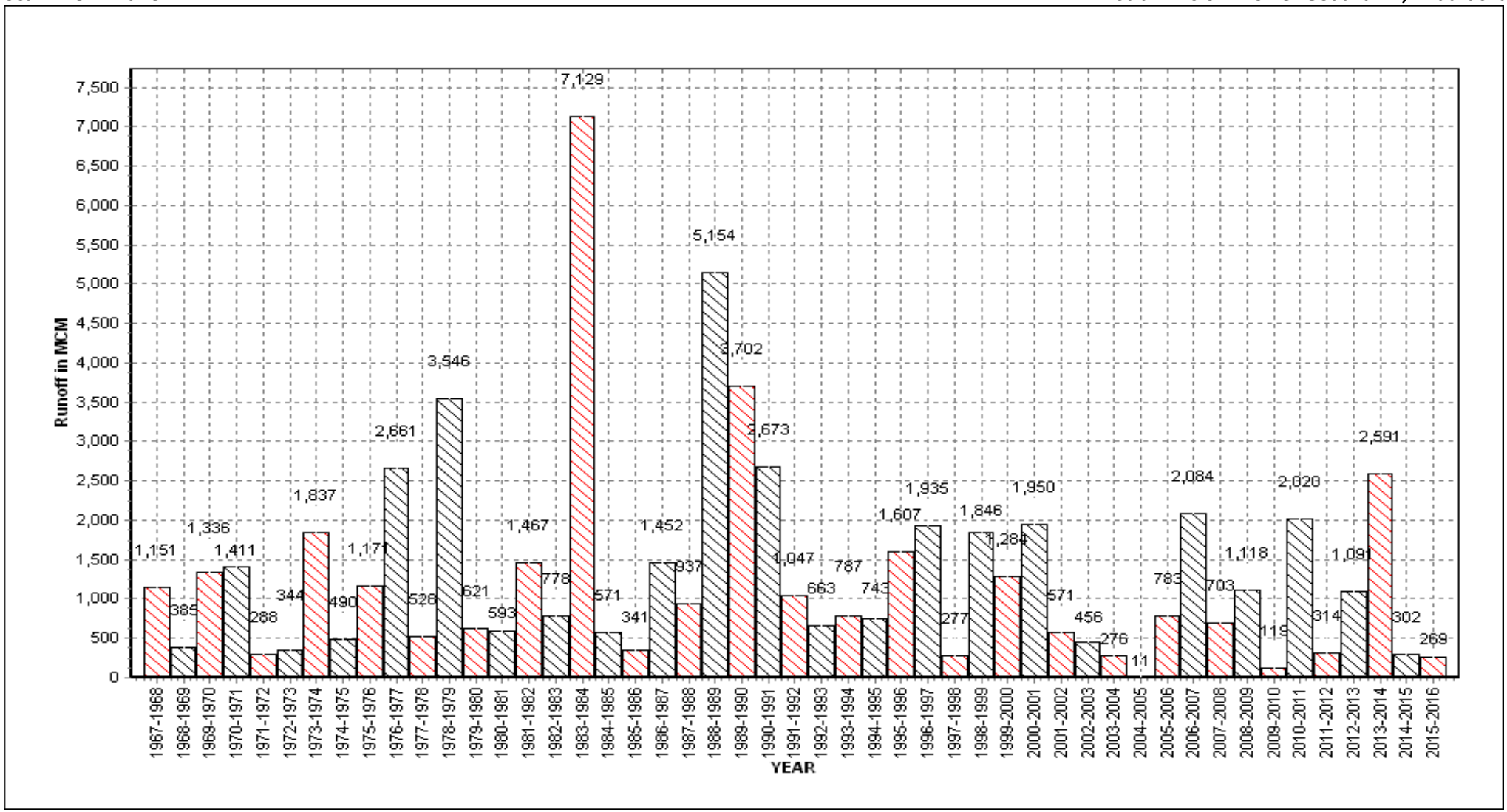
Local River : Maner **Sub-Division : Lower Godavari 1, Bhadrachalam**



Annual Runoff Values for the period: 1967 - 2016

Station Name : Somanpally (Seasonal) (AGI00C3) **Division : Lower Godavari Div., Hyderabad**

Local River : Maner **Sub-Division : Lower Godavari 1, Bhadrachalam**

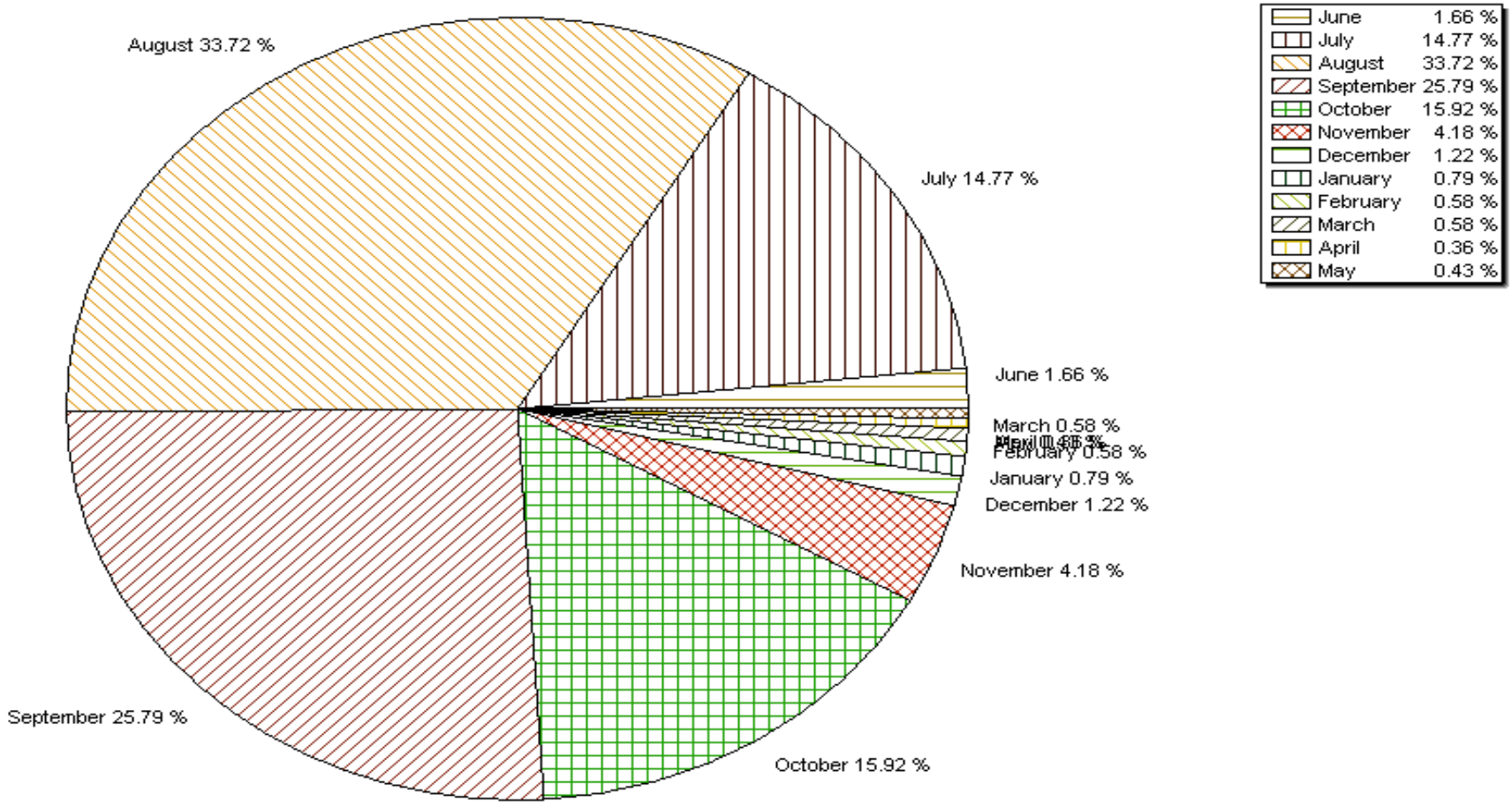


Note: Missing values have not been considered while arriving at Annual Runoff

Monthly Average Runoff based on period : 1967-2015

Station Name : Somanpally (Seasonal) (AGI00C3) **Division : Lower Godavari Div., Hyderabad**

Local River : Maner **Sub-Division : Lower Godavari 1, Bhadrachalam**



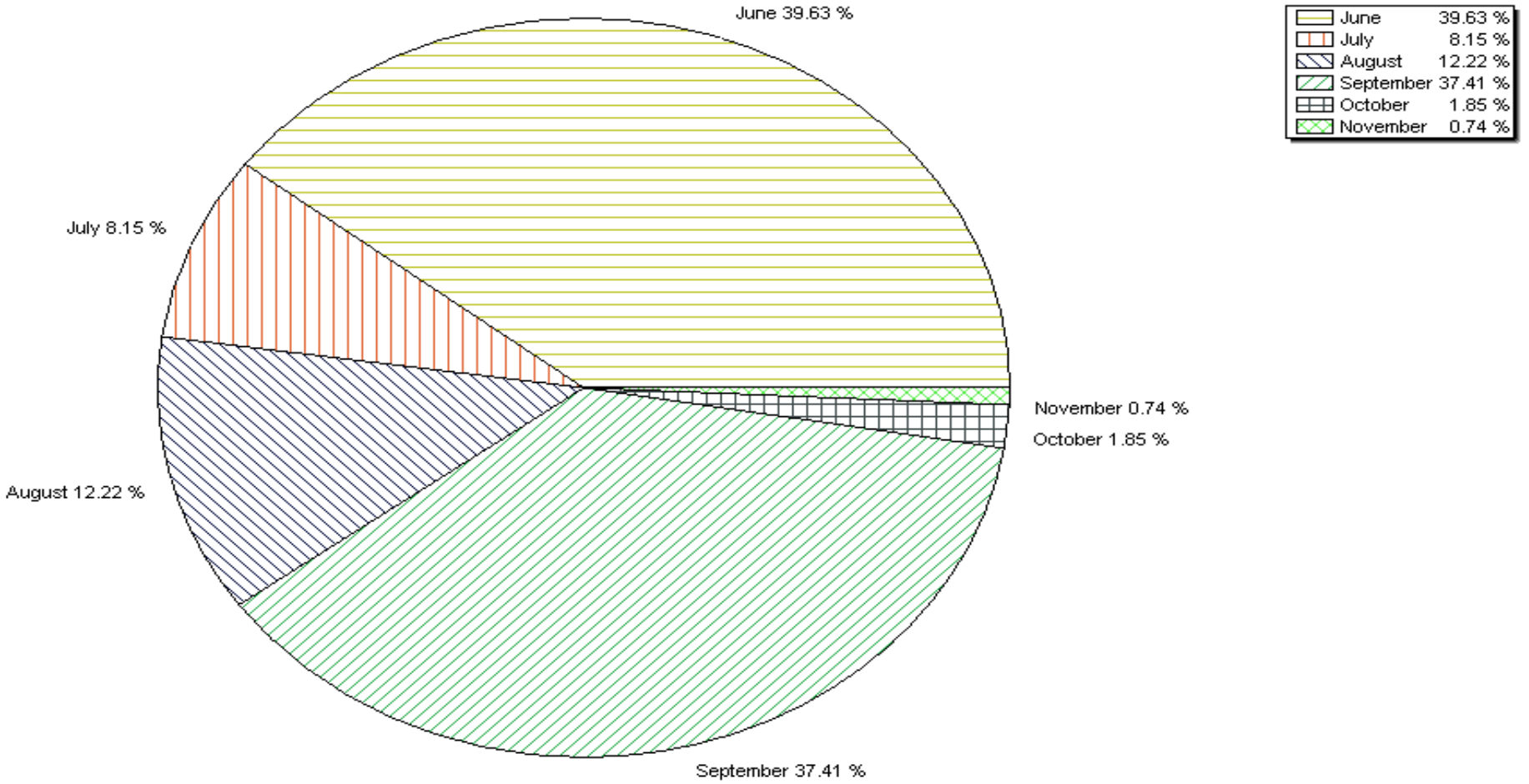
Monthly Runoff for the Year : 2015-2016

Station Name : Somanpally (Seasonal) (AGI00C3)

Local River : Maner

Division : Lower Godavari Div., Hyderabad

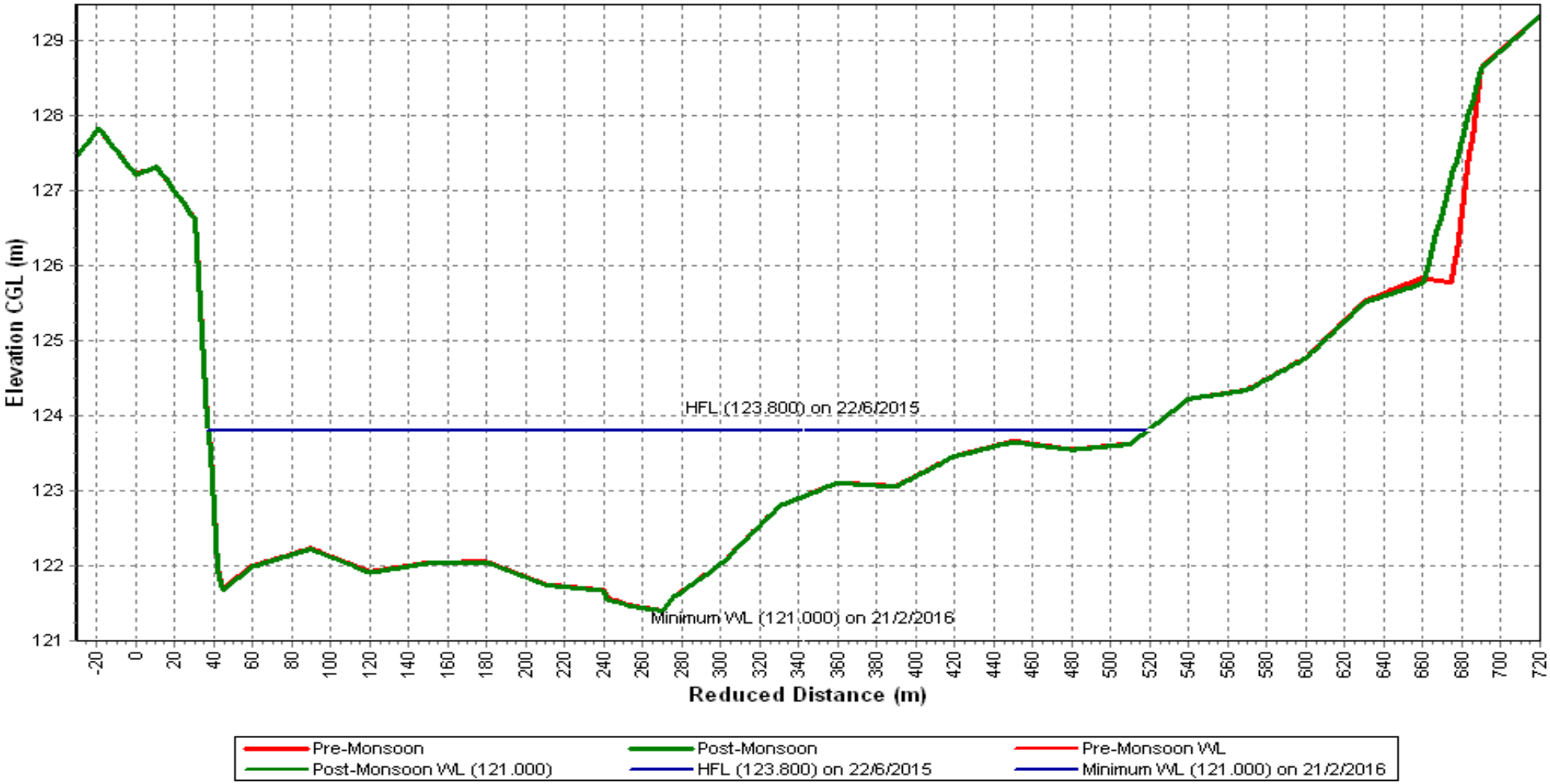
Sub-Division : Lower Godavari 1, Bhadrachalam



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

Station Name : Somanpally (Seasonal) (AGI00C3) **Division : Lower Godavari Div., Hyderabad**

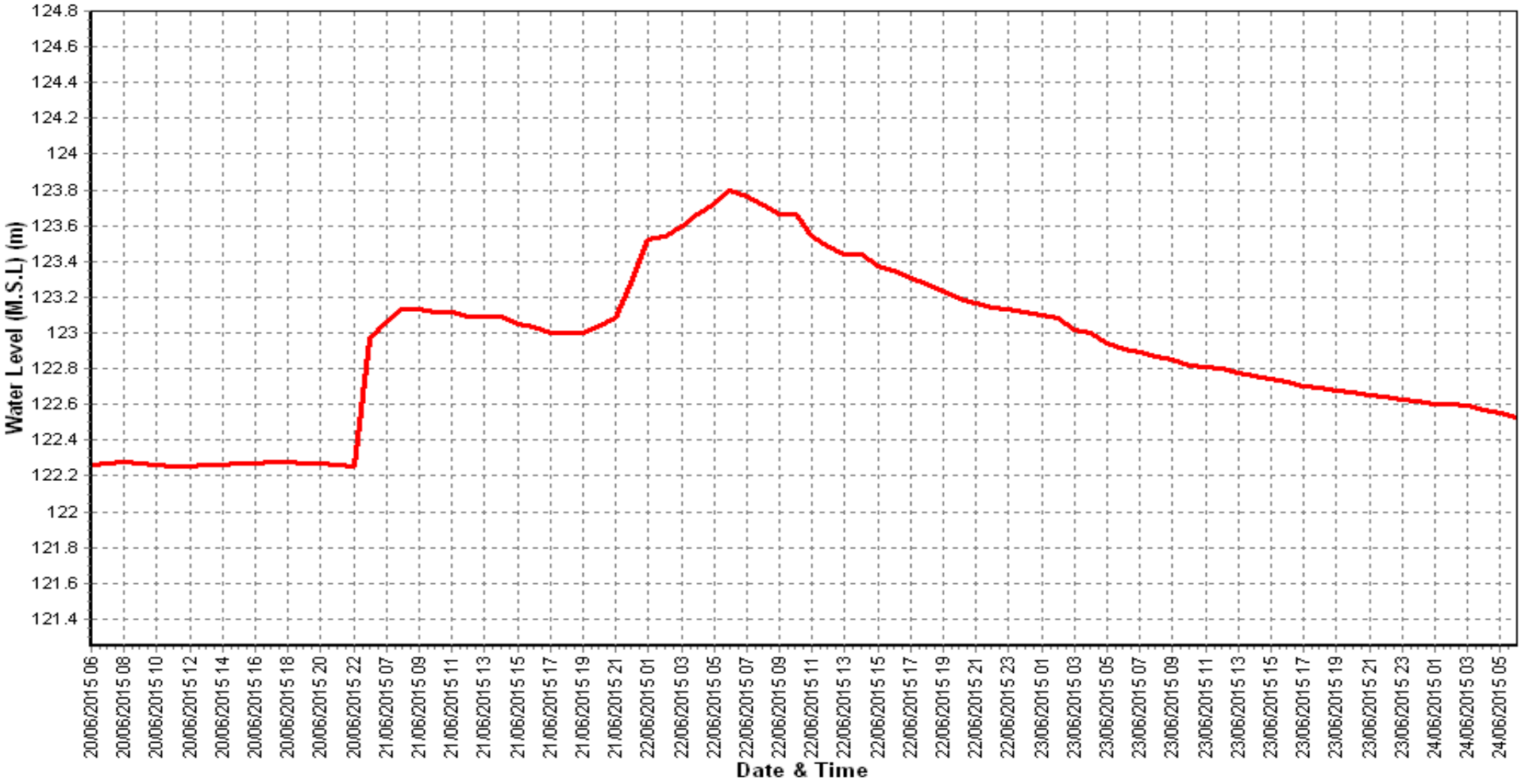
Local River : Maner **Sub-Division : Lower Godavari 1, Bhadrachalam**



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

Station Name : Somanpally (Seasonal) (AGI00C3) **Division : Lower Godavari Div., Hyderabad**

Local River : Maner **Sub-Division : Lower Godavari 1, Bhadrachalam**

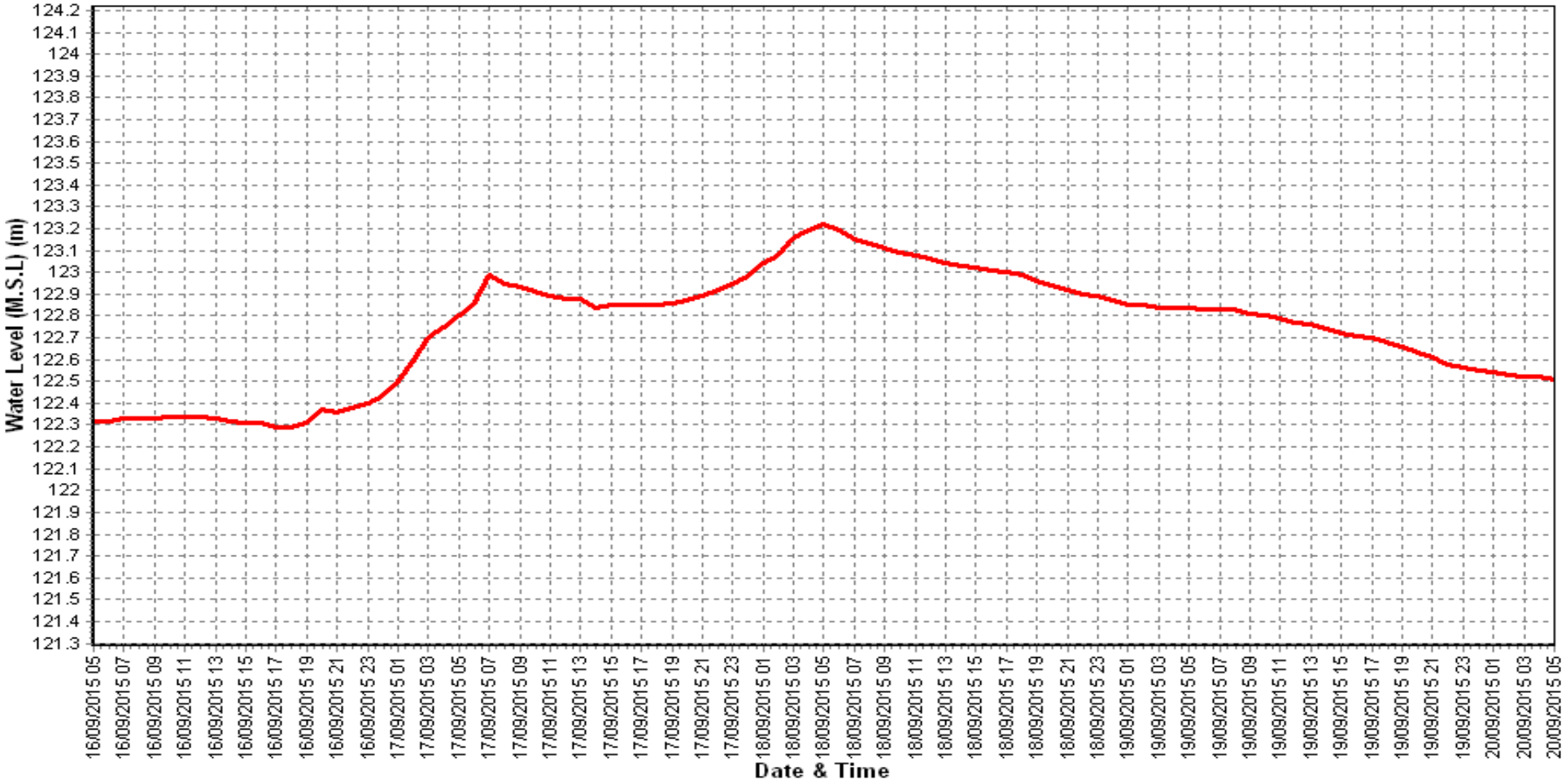


Time Span: 96 Hrs

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

Station Name : Somanpally (Seasonal) (AGI00C3) **Division : Lower Godavari Div., Hyderabad**

Local River : Maner **Sub-Division : Lower Godavari 1, Bhadrachalam**

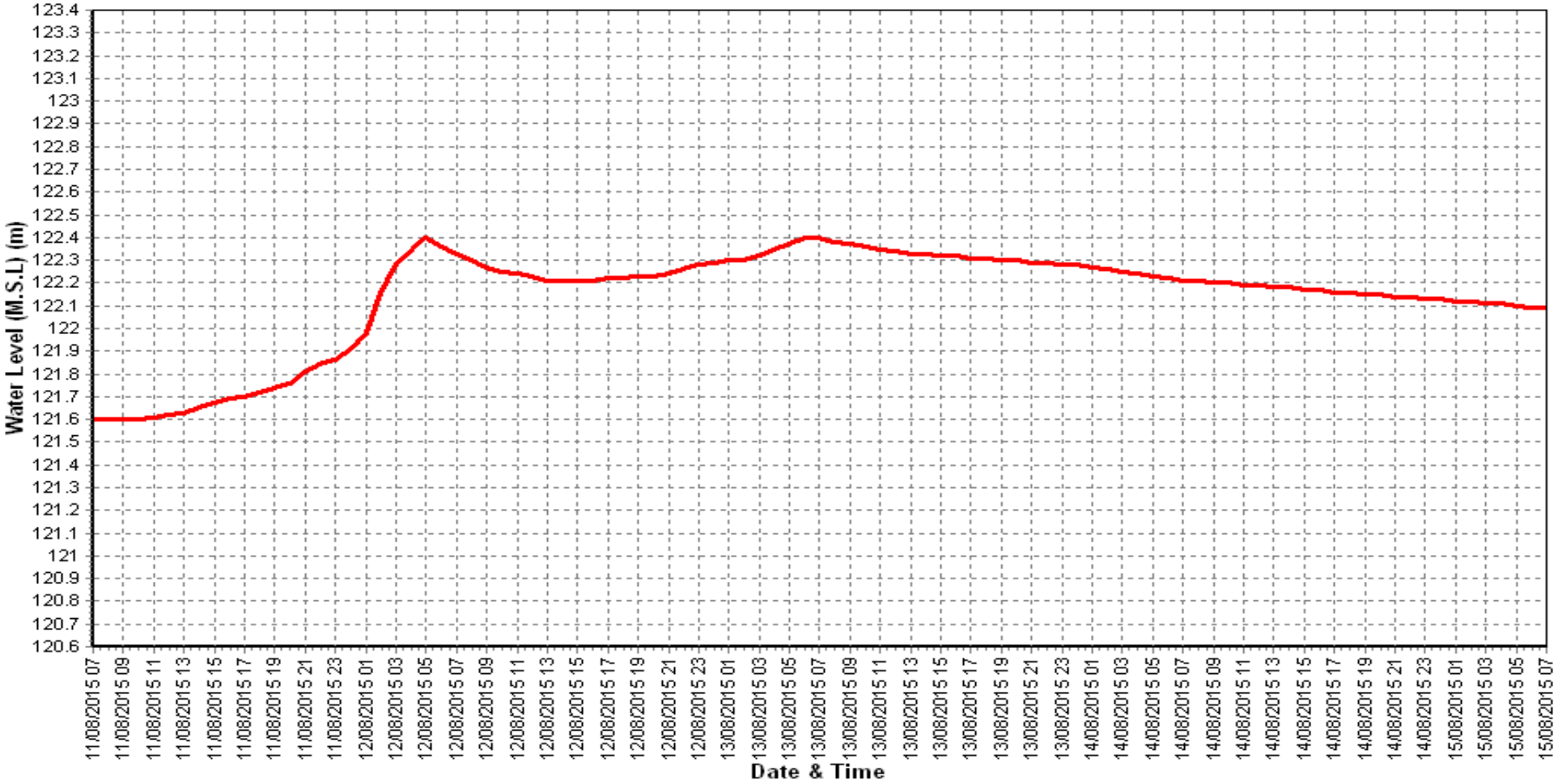


Time Span: 96 Hrs

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

Station Name : Somanpally (Seasonal) (AGI00C3) **Division : Lower Godavari Div., Hyderabad**

Local River : Maner **Sub-Division : Lower Godavari 1, Bhadrachalam**



Time Span: 96 Hrs

HISTORY SHEET

			Water Year	:	**2015-2016**
Site	:	**Kiwaibalenga**	**Code**	:	**KOKIDI**
State	:	Chhattisgarh	District		Bastar
Basin	:	Godavari	Independent River	:	Godavari
Tributary	:	Indravathi	Sub Tributary	:	Bawardhi
Sub-Sub Tributary	:	--'	Local River	:	Bawardhi
Division	:	L Godavari Div., Hyderabad	Sub-Division	:	Indravathi S D, Jagdalpur
Drainage Area	:	910 Sq. Km.	Bank	:	Left
Latitude	:	19°38'30"	Longitude	:	81°33'45"
Zero of Gauge (m)	:	562.000 (m.s.l)	01.03.1996		
		Opening Date	Closing Date		
Gauge	:	01.03.1996	**HFL During 2015-16**	:	**570.010**
			Corres. Discharge	:	**264.633 Cumes(Estimated)**
Discharge	:	29.08.2005	**Date & Time of**	:	**17.09.2015**
			Occurance	:	**20:00 hrs.**
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**
2010-2011	1408	571.790	06.08.2010	0.000		02.06.2010
2011-2012	480.7	567.940	31.08.2011	0.000	563.800	18.02.2012
2012-2013	915.9	569.400	20.08.2012	0.000		23.02.2013
2013-2014	1037	569.900	01.08.2013	0.000	564.040	12.03.2014
2014-2015	213.8	572.000	22.07.2014	0.000	564.010	12.12.2014

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

Stage-Discharge Data for the period 2015 - 2016

Station Name : Kiwaibalenga (KOKIDI) **Division : L Godavari Div., Hyderabad**

Local River : Bawardhi **Sub-Division : Indravathi S D, Jagdalpur**

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	563.830	0.000	564.530	11.64 *	564.220	4.439	565.340	35.56 *	564.720	16.55 *	564.300	3.342 *
2	563.860	0.000	564.950	23.11 *	564.220	4.852 *	565.140	28.99 *	564.700	16.01 *	564.290	3.152
3	563.850	0.000	564.970	23.71 *	564.110	2.903 *	564.980	24.01 *	564.660	15.21 *	564.290	3.419
4	563.840	0.000	564.820	19.33 *	564.140	3.436	564.780	18.20 *	564.650	14.95 *	564.290	3.162
5	564.000	0.000	564.570	12.63 *	564.185	3.794	564.830	19.61 *	564.590	13.65 *	564.280	2.906
6	563.870	0.000	564.470	10.20 *	564.340	8.084	565.190	30.59 *	564.560	12.63 *	564.270	2.853
7	563.890	0.000	564.235	5.589	564.280	6.161	564.850	20.18 *	564.510	11.64 *	564.270	2.669
8	563.930	0.000	564.190	4.292 #	564.295	6.318	564.710	16.28 *	564.500	11.31 *	564.260	2.666 *
9	563.980	0.000	564.170	3.930 #	564.400	8.591 *	565.120	28.35 *	564.470	10.20 *	564.260	2.666
10	563.950	0.000	564.173	4.612	564.340	7.278 *	564.900	21.63 *	564.460	9.995 *	564.250	2.224
11	563.930	0.000	564.430	9.271 #	564.600	13.39 *	564.750	17.37 *	564.420	8.441 *	564.240	2.405 *
12	563.940	0.000	565.430	38.65 *	564.480	10.44 *	564.700	16.01 *	564.360	6.019 *	564.240	2.405
13	564.040	0.000	564.820	19.33 *	565.140	28.99 *	564.590	13.14 *	564.330	3.326	564.240	2.392
14	563.990	0.000	564.700	16.01 *	565.500	41.10 *	564.525	11.52 #	564.300	2.500	564.230	2.069
15	564.530	0.000	564.780	18.20 *	565.200	30.92 *	564.590	13.14 *	564.280	1.991	564.210	1.636 *
16	564.380	0.000	564.700	16.01 *	564.900	21.63 *	564.960	23.41 *	564.240	1.436	564.200	1.452
17	564.400	8.591 #	564.670	15.21 *	564.740	17.10 *	569.330	224.4 *	564.308	2.866	564.200	1.367
18	564.365	7.817 #	564.530	11.64 *	565.660	46.86 *	569.440	230.7 *	564.280	2.973 *	564.200	1.493
19	564.418	8.986 #	564.370	7.927 *	565.350	35.90 *	566.840	95.34 *	564.280	2.973 *	564.200	1.444
20	564.390	8.368 #	564.470	10.20 *	564.980	24.01 *	566.600	84.70 *	564.310	2.924	564.190	1.431
21	566.310	72.35 *	564.640	14.42 *	564.720	16.55 *	567.190	111.5 *	564.290	2.641	564.190	1.404
22	568.180	160.9 *	564.610	13.65 *	564.600	13.39 *	566.330	73.19 *	564.290	2.697 *	564.170	1.234 *
23	566.600	84.70 *	564.610	13.65 *	564.520	11.40 *	565.900	55.90 *	564.290	2.697	564.150	0.915 *
24	565.880	55.13 *	565.170	29.95 *	564.450	10.38	565.640	46.13 *	564.280	2.973 *	564.150	0.915
25	565.360	36.24 *	565.390	37.27 *	564.390	8.200	565.430	38.65 *	564.270	2.889 *	564.130	0.874 *
26	564.910	21.93 *	564.890	21.34 *	564.310	7.160	565.240	32.23 *	564.290	2.697 *	564.110	0.859
27	564.750	17.37 *	564.610	13.65 *	564.330	6.893	565.080	27.09 *	564.280	2.973	564.100	0.835
28	564.940	22.81 *	564.480	9.995	564.920	22.22 *	564.950	23.11 *	564.290	3.283	564.100	0.762
29	564.660	14.95 *	564.400	8.441	566.070	62.57 *	564.860	20.47 *	564.360	5.546	564.090	0.738 *
30	564.550	12.14 *	564.310	6.019	565.520	41.81 *	564.780	18.20 *	564.290	3.056	564.090	0.738 *
31			564.240	4.633	565.220	31.57 *			564.270	2.889		
-Daily Mean												
Ten-Dai	563.900	0.000	564.508	11.91	564.253	5.586	564.984	24.34	564.582	13.22	564.276	2.906
Ten-Dai	564.238	3.376	564.690	16.25	565.055	27.03	566.033	72.97	564.311	3.545	564.215	1.809
Ten-Da	565.614	49.85	564.668	15.73	564.823	21.10	565.540	44.65	564.291	3.122	564.128	0.927
Monthly												
Min.	563.830	0.000	564.170	3.930	564.110	2.903	564.525	11.52	564.240	1.436	564.090	0.738
Max.	568.180	160.9	565.430	38.65	566.070	62.57	569.440	230.7	564.720	16.55	564.300	3.419
Mean	564.584	17.74	564.623	14.66	564.714	18.01	565.519	47.32	564.391	6.514	564.206	1.881

Annual Runoff in MCM = 279 Annual Runoff in mm = 306

Peak Observed Discharge = 11.52 cumecs on 14/09/2015 Corres. Water Level :564.525 m

Lowest Observed Discharge = 0.000 cumecs on 01/06/2015 Corres. Water Level :563.83 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 : Kiwaibalenga (KOKIDI) **Division : L Godavari Div., Hyderabad**

Local River : Bawardhi **Sub-Division : Indravathi S D, Jagdalpur**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	564.080	0.709	563.890	0.000	563.890	0.000	563.840	0.000	563.840	0.000	563.750	0.000
2	564.070	0.000	563.890	0.000	563.890	0.000	563.840	0.000	563.830	0.000	563.750	0.000
3	564.060	0.000	563.920	0.000	563.890	0.000	563.840	0.000	563.820	0.000	563.750	0.000
4	564.050	0.000	563.910	0.000	563.890	0.000	563.830	0.000	563.820	0.000	563.800	0.000
5	564.050	0.000	563.910	0.000	563.890	0.000	563.830	0.000	563.820	0.000	563.830	0.000
6	563.980	0.000	563.890	0.000	563.890	0.000	563.840	0.000	563.820	0.000	563.830	0.000
7	563.940	0.000	563.890	0.000	563.890	0.000	563.840	0.000	563.820	0.000	563.830	0.000
8	563.920	0.000	563.890	0.000	563.890	0.000	563.840	0.000	563.820	0.000	563.830	0.000
9	563.920	0.000	563.890	0.000	563.890	0.000	563.840	0.000	563.810	0.000	563.830	0.000
10	563.920	0.000	563.890	0.000	563.890	0.000	563.830	0.000	563.800	0.000	563.830	0.000
11	563.910	0.000	563.890	0.000	563.890	0.000	563.830	0.000	563.790	0.000	563.830	0.000
12	563.900	0.000	563.890	0.000	563.890	0.000	563.830	0.000	563.780	0.000	563.830	0.000
13	563.900	0.000	563.890	0.000	563.890	0.000	563.830	0.000	563.780	0.000	563.830	0.000
14	563.900	0.000	563.890	0.000	563.890	0.000	563.830	0.000	563.780	0.000	563.830	0.000
15	563.900	0.000	563.890	0.000	563.900	0.000	563.830	0.000	563.780	0.000	563.830	0.000
16	563.900	0.000	563.900	0.000	563.900	0.000	563.950	0.000	563.780	0.000	563.830	0.000
17	563.900	0.000	563.900	0.000	563.900	0.000	563.890	0.000	563.780	0.000	563.830	0.000
18	563.890	0.000	563.900	0.000	563.900	0.000	563.880	0.000	563.780	0.000	563.830	0.000
19	563.890	0.000	563.900	0.000	563.890	0.000	563.870	0.000	563.780	0.000	563.830	0.000
20	563.890	0.000	563.900	0.000	563.890	0.000	563.870	0.000	563.770	0.000	563.830	0.000
21	563.890	0.000	563.910	0.000	563.890	0.000	563.870	0.000	563.770	0.000	563.830	0.000
22	563.890	0.000	563.910	0.000	563.890	0.000	563.860	0.000	563.760	0.000	563.830	0.000
23	563.890	0.000	563.910	0.000	563.890	0.000	563.850	0.000	563.760	0.000	563.830	0.000
24	563.890	0.000	563.910	0.000	563.890	0.000	563.850	0.000	563.760	0.000	563.820	0.000
25	563.890	0.000	563.910	0.000	563.890	0.000	563.840	0.000	563.760	0.000	563.820	0.000
26	563.890	0.000	563.900	0.000	563.870	0.000	563.840	0.000	563.760	0.000	563.820	0.000
27	563.890	0.000	563.900	0.000	563.850	0.000	563.840	0.000	563.760	0.000	563.820	0.000
28	563.890	0.000	563.900	0.000	563.840	0.000	563.830	0.000	563.750	0.000	563.820	0.000
29	563.890	0.000	563.900	0.000	563.830	0.000	563.830	0.000	563.750	0.000	563.820	0.000
30	563.890	0.000	563.900	0.000			563.840	0.000	563.750	0.000	563.820	0.000
31	563.890	0.000	563.890	0.000			563.840	0.000			563.820	0.000
-Daily M												
Ten-Dai	563.999	0.071	563.897	0.000	563.890	0.000	563.837	0.000	563.820	0.000	563.803	0.000
Ten-Dai	563.898	0.000	563.895	0.000	563.894	0.000	563.861	0.000	563.780	0.000	563.830	0.000
Ten-Da	563.890	0.000	563.904	0.000	563.871	0.000	563.845	0.000	563.758	0.000	563.823	0.000
Monthly												
Min.	563.890	0.000	563.890	0.000	563.830	0.000	563.830	0.000	563.750	0.000	563.750	0.000
Max.	564.080	0.709	563.920	0.000	563.900	0.000	563.950	0.000	563.840	0.000	563.830	0.000
Mean	563.928	0.023	563.899	0	563.886	0	563.847	0	563.786	0	563.819	0

Peak Computed Discharge = 230.7 cumecs on 18/09/2015 Corres. Water Level :569.44 m

Lowest Computed Discharge = 0.738 cumecs on 29/11/2015 Corres. Water Level :564.09 m

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

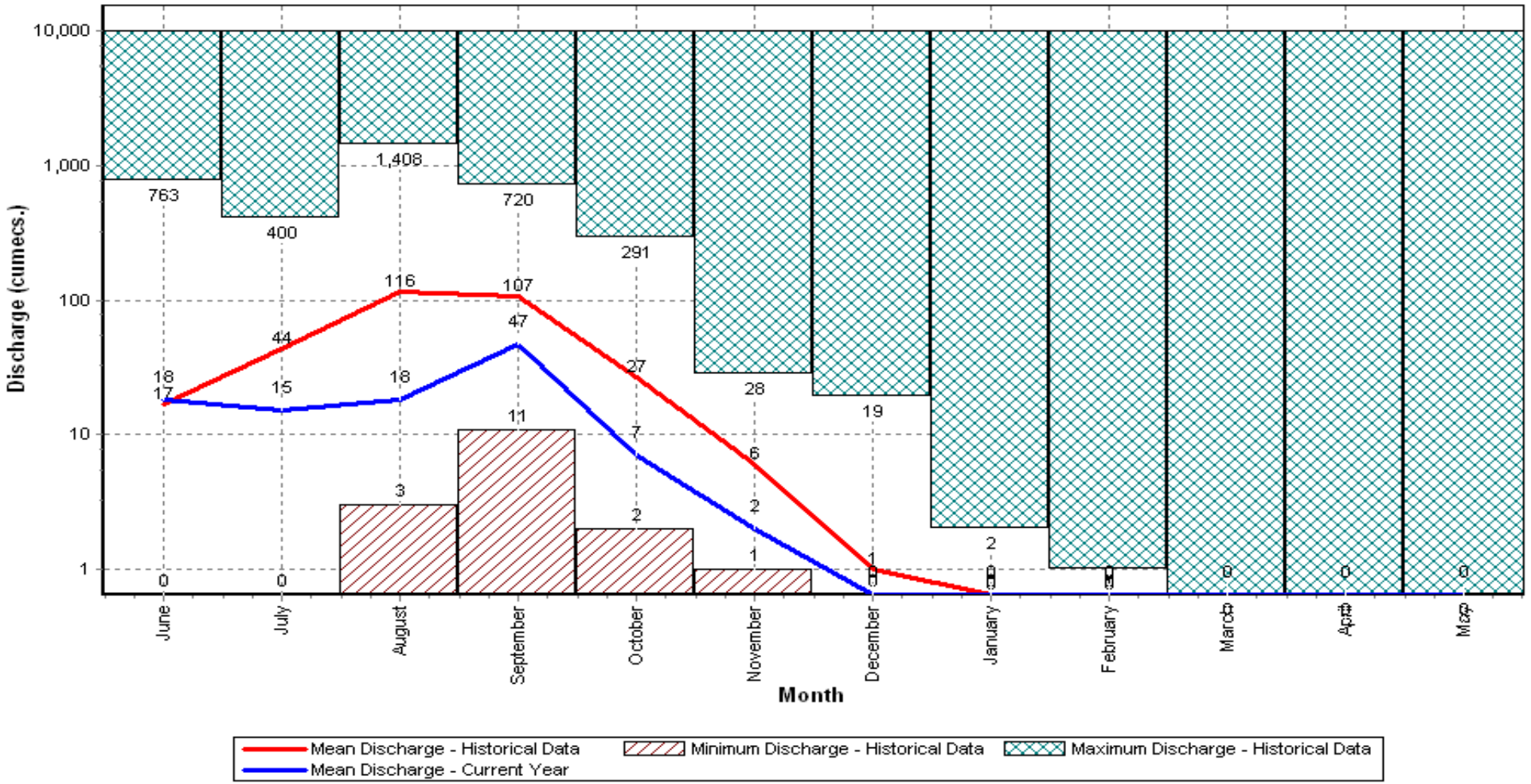
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016

Station Name : Kiwaibalenga (KOKIDI) | **Data considered : 2010-2016** | **Division : L Godavari Div., Hyderabad**

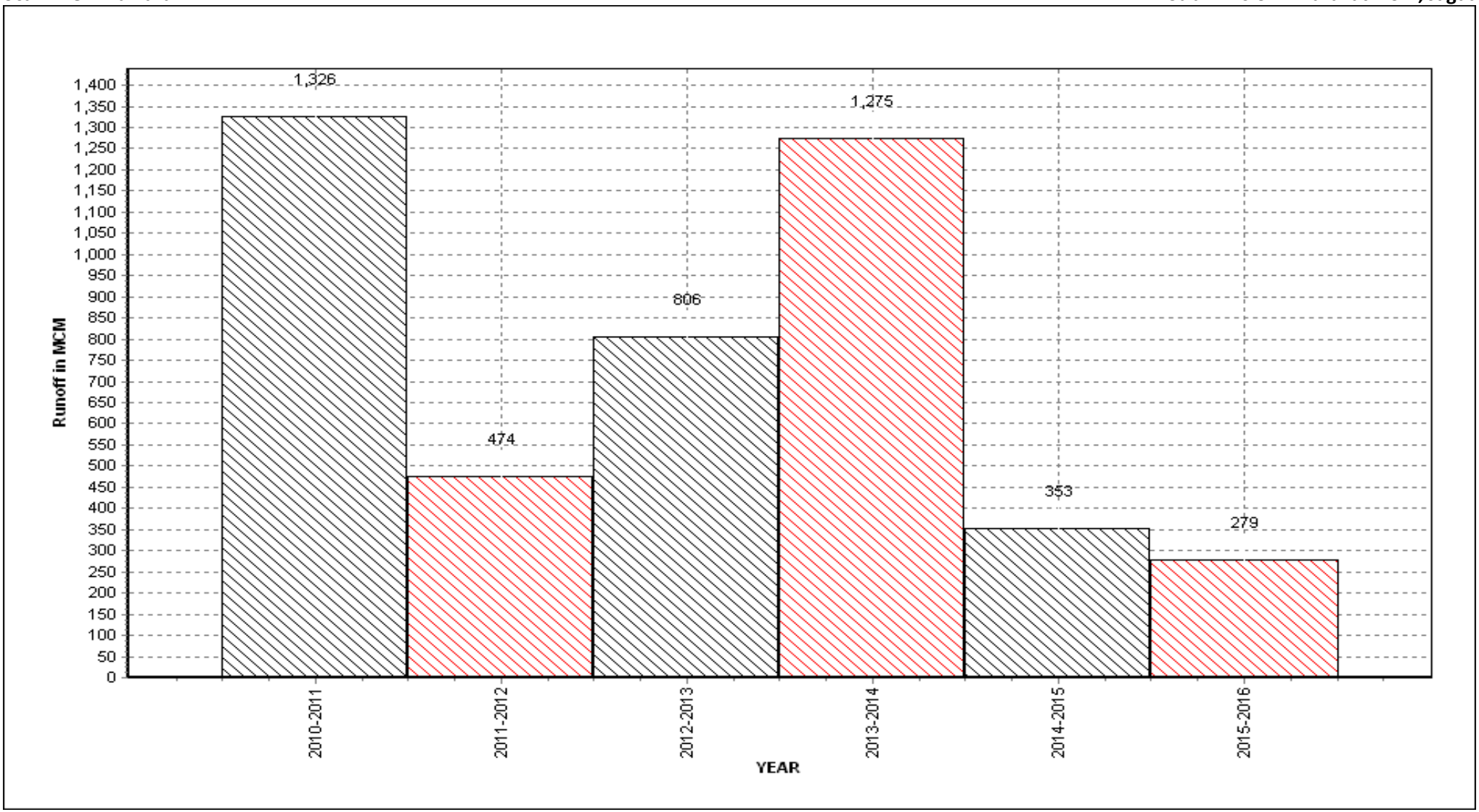
Local River : Bawardhi | **Sub-Division : Indravathi S D, Jagdalpur**



Annual Runoff Values for the period: 2010 - 2016

Station Name : Kiwaibalenga (KOKIDI) **Division : L Godavari Div., Hyderabad**

Local River : Bawardhi **Sub-Division : Indravathi S D, Jagdalpur**

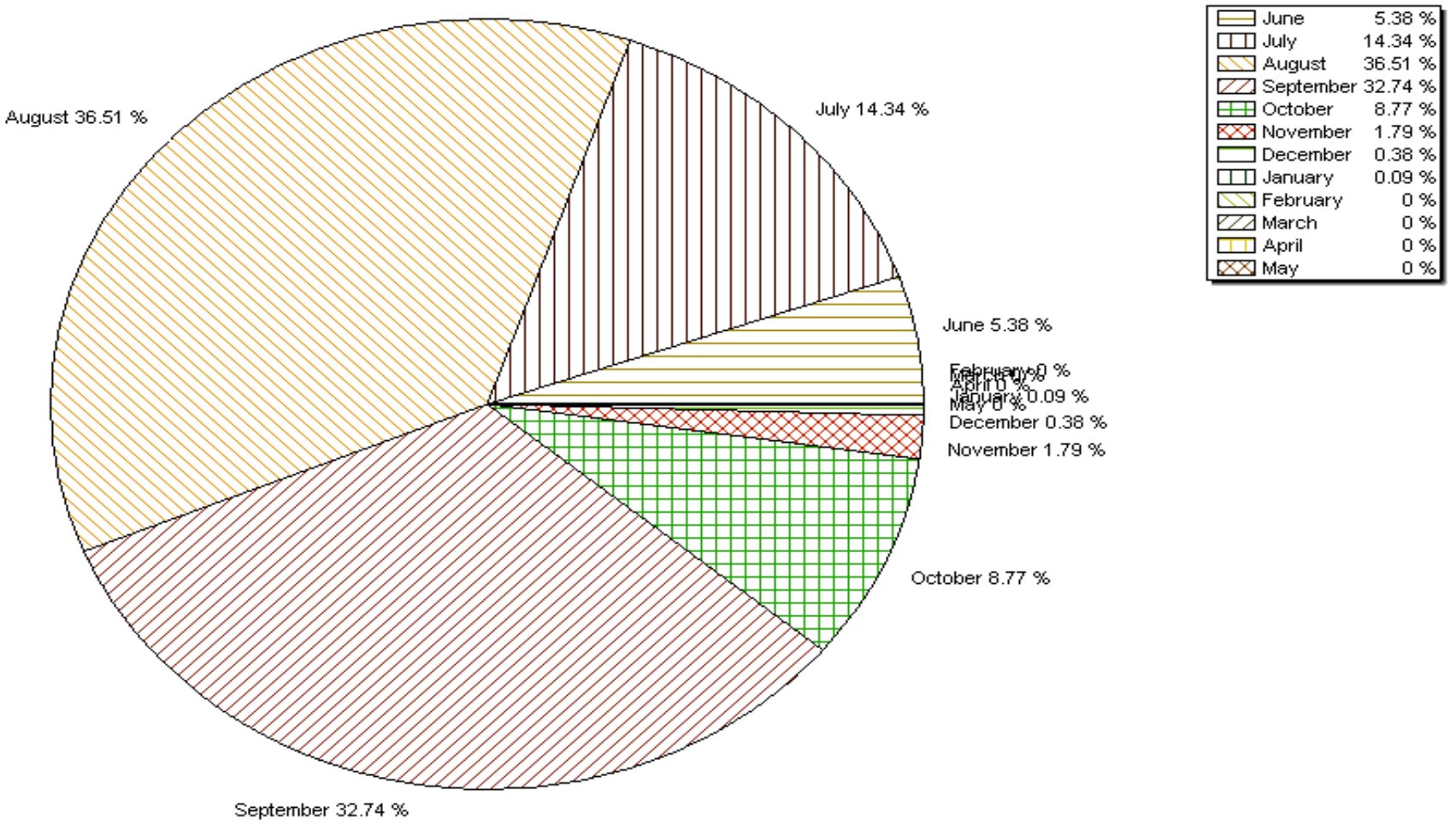


Note: Missing values have not been considered while arriving at Annual Runoff

Monthly Average Runoff based on period : 2010-2015

Station Name : Kiwaibalenga (KOKIDI) **Division : L Godavari Div., Hyderabad**

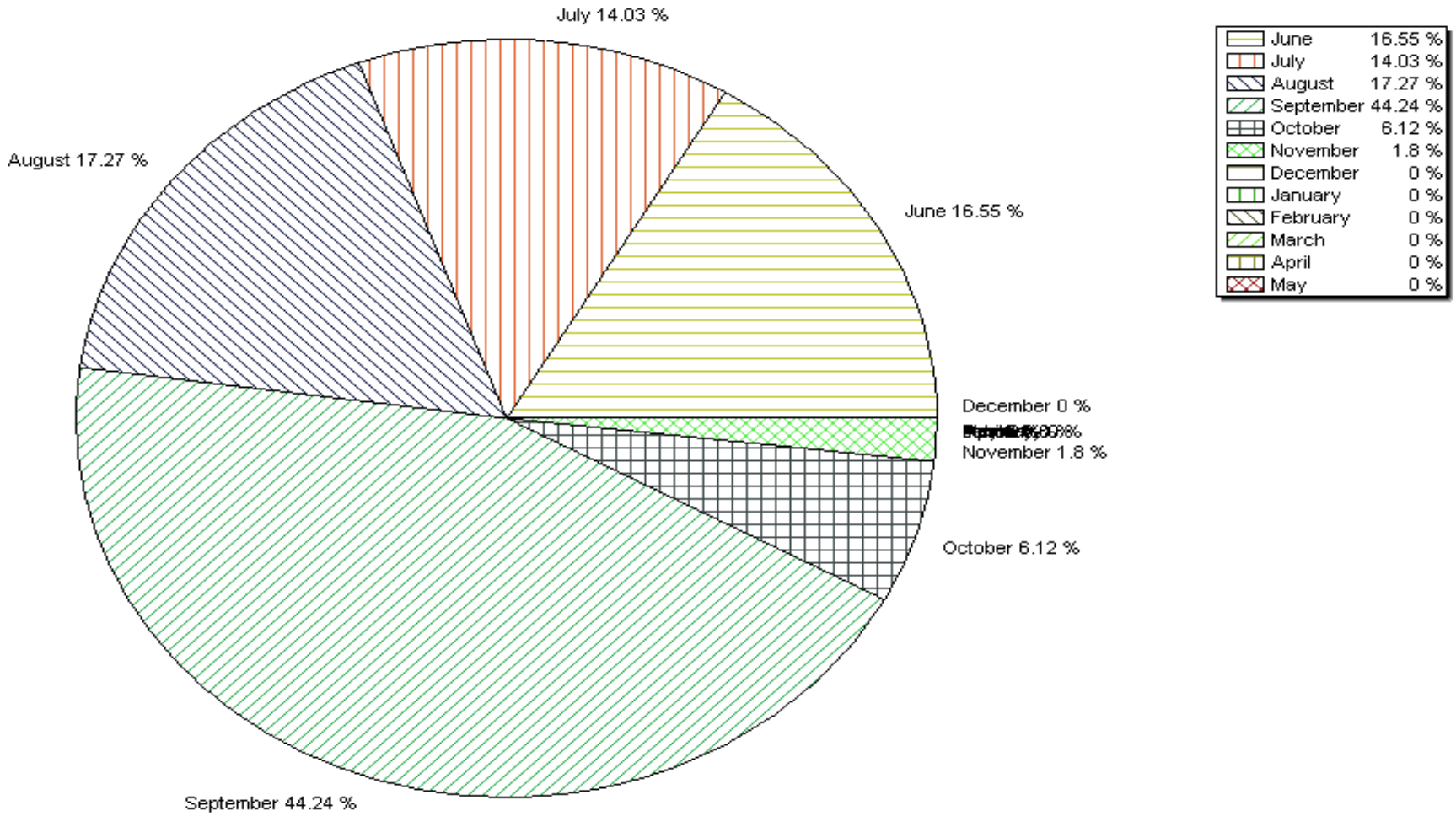
Local River : Bawardhi **Sub-Division : Indravathi S D, Jagdalpur**



Monthly Runoff for the Year : 2015-2016

Station Name : Kiwaibalenga (KOKIDI) **Division : L Godavari Div., Hyderabad**

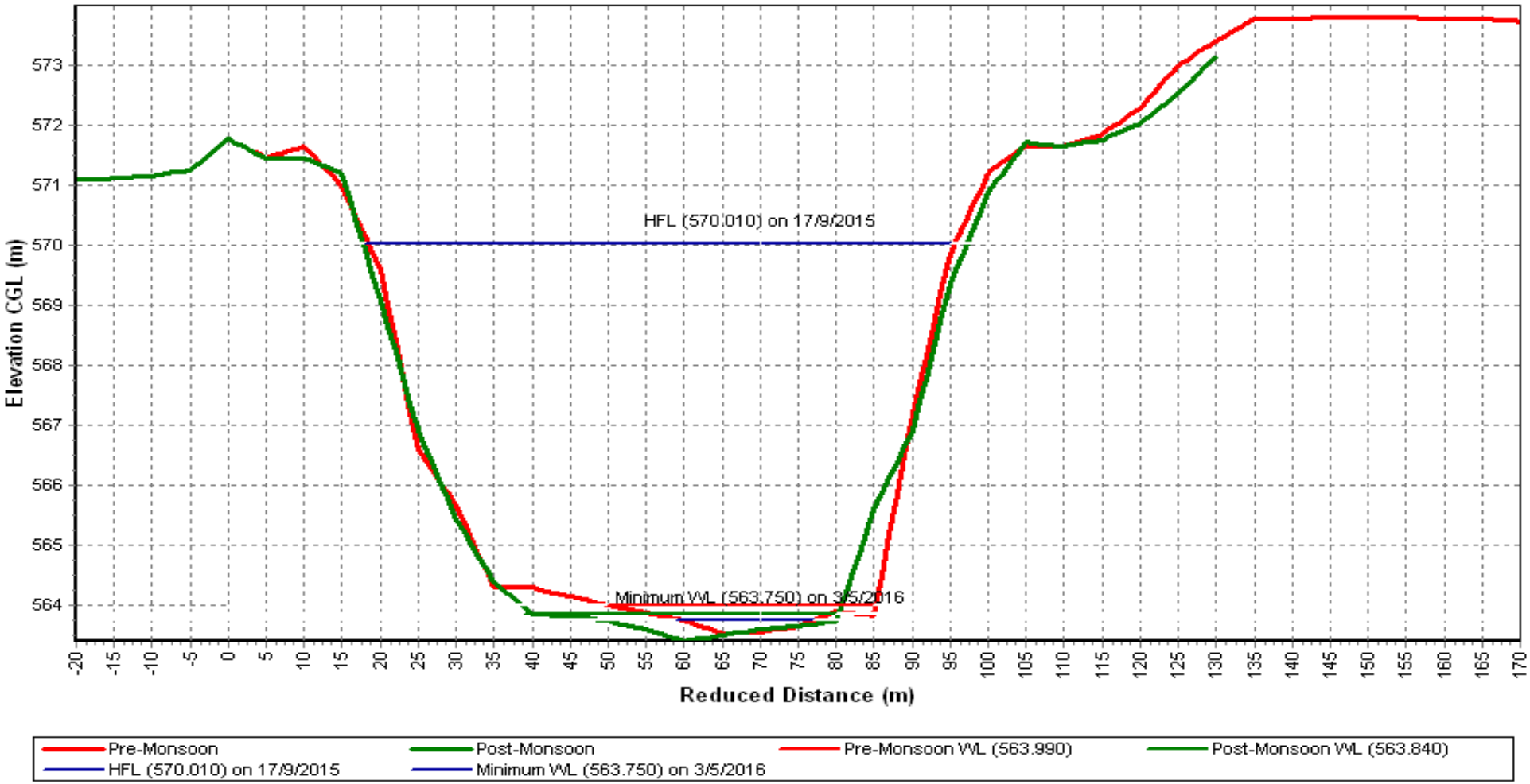
Local River : Bawardhi **Sub-Division : Indravathi S D, Jagdalpur**



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

Station Name : Kiwaibalenga (KOKIDI) **Division : L Godavari Div., Hyderabad**

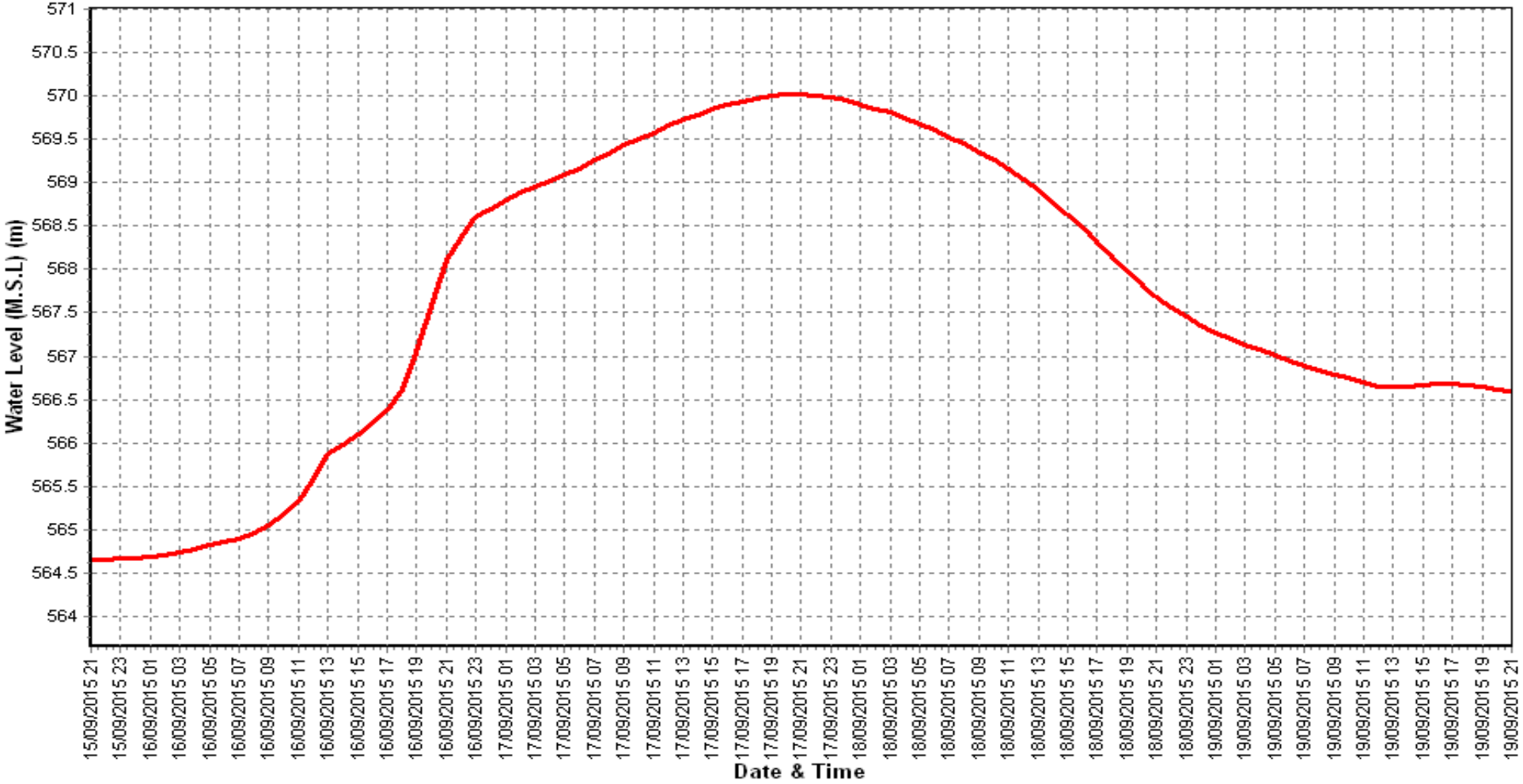
Local River : Bawardhi **Sub-Division : Indravathi S D, Jagdalpur**



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

Station Name : Kiwaibalenga (KOKIDI) **Division : L Godavari Div., Hyderabad**

Local River : Bawardhi **Sub-Division : Indravathi S D, Jagdalpur**

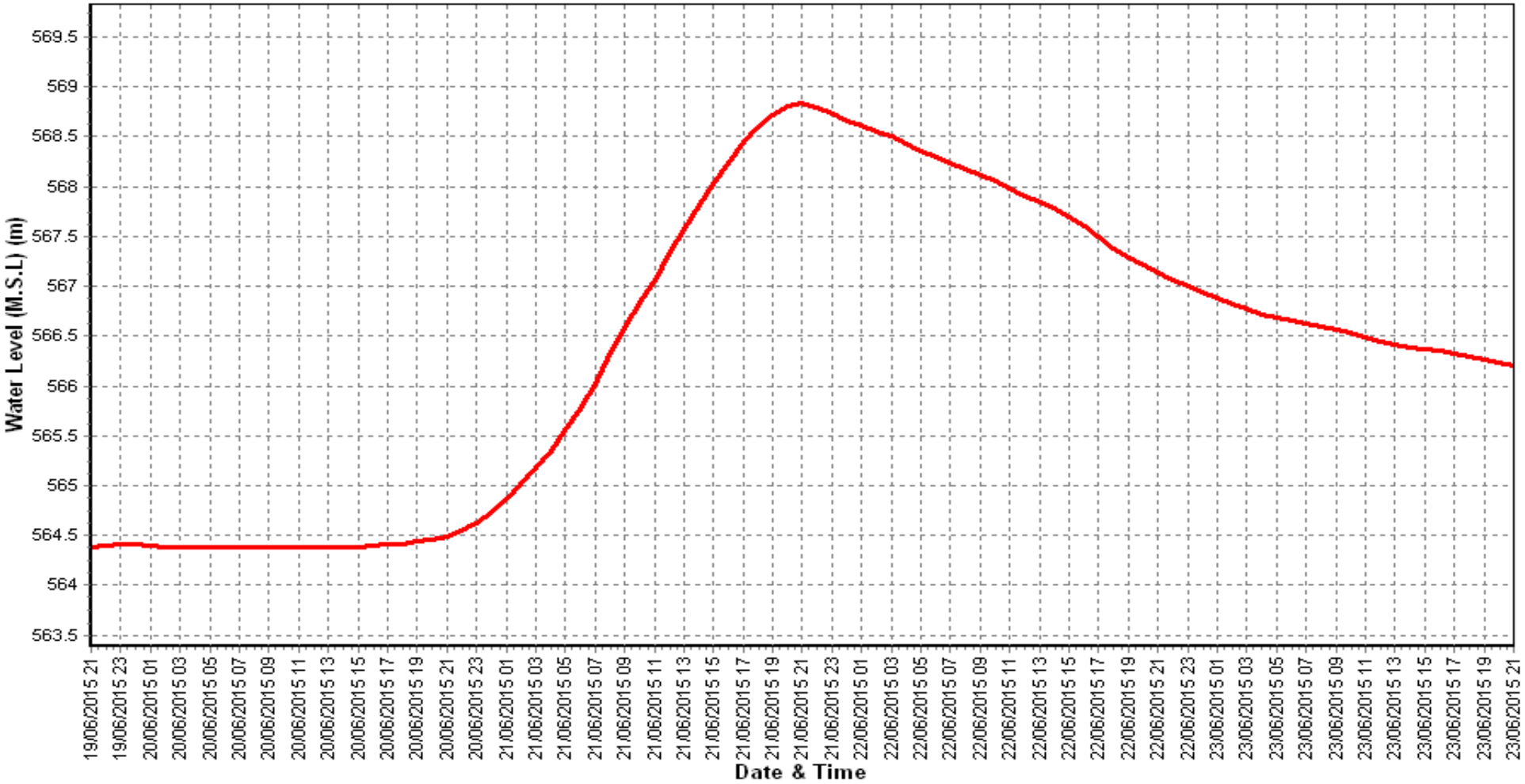


Time Span: 96 Hrs

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

Station Name : Kiwaibalenga (KOKIDI) **Division : L Godavari Div., Hyderabad**

Local River : Bawardhi **Sub-Division : Indravathi S D, Jagdalpur**

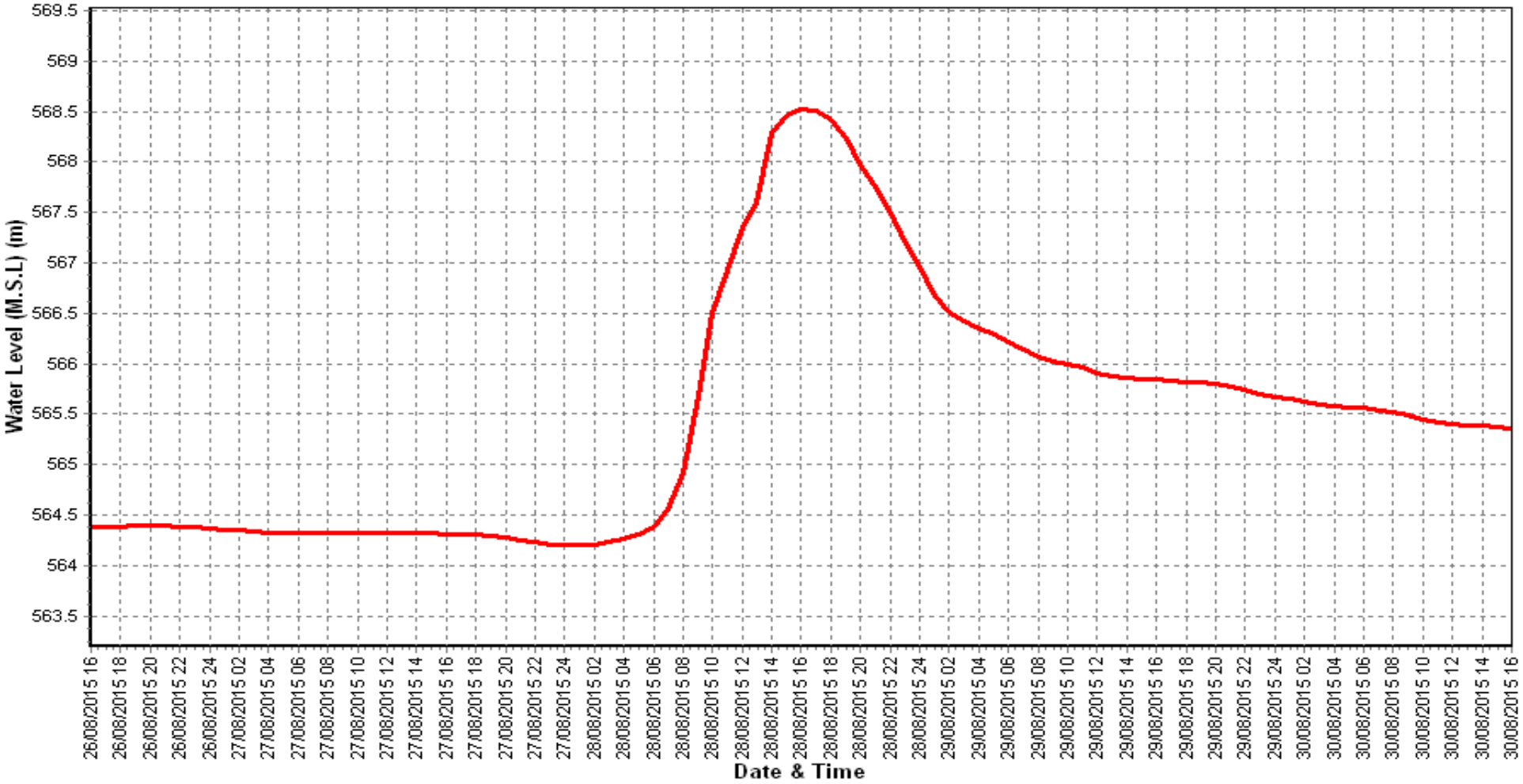


Time Span: 96 Hrs

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

Station Name : Kiwaibalenga (KOKIDI) **Division : L Godavari Div., Hyderabad**

Local River : Bawardhi **Sub-Division : Indravathi S D, Jagdalpur**



Time Span: 96 Hrs

HISTORY SHEET

			Water Year	:	**2015-2016**
Site	:	**TEKRA**	**Code**	:	**AGH00C4**
State	:	Maharashtra	District		Gadchiroli
Basin	:	Godavari	Independent River	:	Godavari
Tributary	:	Pranhita	Sub Tributary	:	
Sub-Sub Tributary	:		Local River	:	Pranhita
Division	:	Wainganga Div., Nagpur	Sub-Division	:	L Wainganga SD, Chandrapur
Drainage Area	:	108780 Sq. Km.	Bank	:	Left
Latitude	:	18°58'42"	Longitude	:	79°56'49"
Zero of Gauge (m)	:	95.09 (m.s.l)	01.06.1964		
		Opening Date	Closing Date		
Gauge	:	01.06.1964	**HFL During 2015-16**	:	**107.090**
			Corres. Discharge	:	**18203.35 Cumecs(Estimated)**
Discharge	:	15.07.1964	**Date & Time of**	:	**15.08.2015**
			Occurance	:	**14.00 hrs.**
Sediment	:	01.07.1965			
Water Quality	:	15.06.1966			

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

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1964-1965	25.67	97.340	01.06.1964	25.60	97.330	02.06.1964
1965-1966	8204	104.065	03.09.1965	2.900	96.210	11.05.1966
1966-1967	26000	110.920	06.09.1966	1.800	96.175	09.06.1966
1967-1968	15839	107.578	04.08.1967	3.100	96.200	12.06.1967
1968-1969	21480	108.670	18.08.1968	3.643	96.075	31.05.1969
1969-1970	15065	107.495	22.09.1969	3.165	96.065	04.06.1969
1970-1971	26646	110.560	06.09.1970	20.09	96.375	28.05.1971
1971-1972	13400	107.190	02.09.1971	1.990	96.300	31.05.1972
1972-1973	8571	104.795	25.08.1972	1.364	96.250	16.06.1972
1973-1974	27589	109.105	10.07.1973	2.160	96.350	01.06.1973
1974-1975	21127	108.350	22.08.1974	1.650	96.455	29.05.1975
1975-1976	24919	109.850	15.08.1975	3.590	96.535	15.06.1975
1976-1977	24085	109.460	03.09.1976	6.930	96.780	05.06.1976
1977-1978	14150	107.520	24.08.1977	5.900	96.650	12.06.1977
1978-1979	33617	111.648	01.09.1978	13.10	96.570	07.06.1978
1979-1980	28714	111.175	13.08.1979	3.100	97.015	31.05.1980
1980-1981	19000	108.630	03.08.1980	3.200	97.020	02.06.1980
1981-1982	33732	112.140	11.08.1981	5.800	97.190	10.06.1981
1982-1983	6158	103.975	18.08.1982	6.700	97.255	07.05.1983
1983-1984	20910	109.600	14.08.1983	4.400	97.170	13.06.1983
1984-1985	18683	108.140	21.08.1984	2.600	97.580	31.05.1985
1985-1986	9855	105.350	18.07.1985	2.200	97.600	02.06.1985

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**
1986-1987	46600	114.600	15.08.1986	3.700	97.825	14.06.1986
1987-1988	6492	104.220	29.08.1987	2.800	97.600	31.05.1988
1988-1989	14908	107.773	02.10.1988	1.900	97.570	08.06.1988
1989-1990	12408	106.425	02.09.1989	4.600	98.015	06.05.1990
1990-1991	26200	112.260	23.08.1990	27.00	98.105	21.05.1991
1991-1992	19826	108.740	17.08.1991	5.191	97.410	27.05.1992
1992-1993	24823	110.360	23.08.1992	6.650	97.330	27.05.1993
1993-1994	9800	105.390	01.08.1993	4.500	97.170	25.05.1994
1994-1995	35750	112.400	09.09.1994	4.709	97.120	08.06.1994
1995-1996	19972	108.990	04.09.1995	11.97	97.120	31.05.1996
1996-1997	4887	103.045	20.08.1996	8.624	97.150	31.05.1997
1997-1998	7877	104.550	01.08.1997	6.200	97.120	08.06.1997
1998-1999	14796	106.785	16.09.1998	25.22	97.050	24.05.1999
1999-2000	17623	108.250	21.09.1999	21.21	97.050	06.05.2000
2000-2001	38915	112.800	21.07.2000	5.591	96.940	31.05.2001
2001-2002	15497	108.540	16.08.2001	6.697	96.510	12.05.2002
2002-2003	16446	108.030	27.06.2002	5.702	96.490	03.06.2002
2003-2004	14828	107.285	30.07.2003	4.270	96.030	10.06.2003
2004-2005	6180	103.305	07.08.2004	1.506	96.040	28.05.2005
2005-2006	16243	109.240	18.09.2005	1.095	96.000	21.06.2005
2006-2007	20397	109.920	06.08.2006	13.26	96.350	31.05.2007
2007-2008	25540	110.410	09.08.2007	6.827	96.810	31.05.2008
2008-2009	14223	106.790	05.08.2008	1.287	96.530	17.05.2009
2009-2010	8737	104.480	25.07.2009	1.730	96.530	02.06.2009
2010-2011	20695	109.590	09.09.2010	5.310	96.840	25.05.2011
2011-2012	14976	107.590	09.09.2011	0.000	96.720	07.05.2012
2012-2013	16927	109.060	08.09.2012	0.000	96.660	05.06.2012
2013-2014	32665	112.090	02.08.2013	5.233	96.530	09.06.2013
2014-2015	12273	108.970	08.09.2014	9.435	97.080	15.06.2014

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

Stage-Discharge Data for the period 2015 - 2016

Station Name : TEKRA (AGH00C4) **Division : Wainganga Div., Nagpur**

Local River : Pranhita **Sub-Division : L Wainganga SD, Chandrapur**

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	97.200	31.87	98.760	949.3	98.990	1059	101.370	2775	98.940	609.9 #	98.090	240.6 *
2	97.430	65.28 #	98.760	938.3	98.690	706.5 *	101.620	3204	98.740	504.9 *	98.070	202.9
3	97.200	31.61	98.630	663.4 #	98.420	520.2 #	101.170	2656	98.760	514.9 #	98.260	263.2
4	97.130	33.97	98.640	670.5 #	98.310	450.1 #	100.440	1941	98.770	519.9 *	98.260	250.7
5	97.070	24.37 #	98.460	546.5 *	98.290	437.7 #	100.420	1887	98.590	433.7 #	98.220	234.5
6	97.150	35.77	98.300	517.7	98.190	377.6 #	100.390	1748 *	98.490	452.7	98.220	236.4
7	97.120	28.70 *	98.210	468.1	103.215	7113	99.690	1179	98.710	565.3	98.200	229.4
8	97.100	31.09	98.110	331.8 #	103.020	6373	99.290	899.2	98.580	461.9	98.090	240.6 *
9	97.090	31.54	98.170	449.4	101.730	3462 *	99.120	825.5	98.430	412.3	98.040	209.9
10	97.030	21.21 #	98.060	380.7	100.370	1727 #	98.840	647.3	98.350	343.4	98.010	198.5
11	97.010	19.55	97.930	186.8	100.140	1836	98.730	468.2	98.310	317.4 *	97.990	209.8 *
12	97.000	18.86	97.870	207.1 *	99.970	1346 #	98.910	550.0	98.270	309.3	97.990	186.8
13	96.990	18.04	97.810	165.4	102.490	4285	98.820	545.5 *	98.365	352.2	98.030	205.0
14	97.050	22.76 *	97.780	152.2	103.090	5952	98.820	504.8	98.380	373.9	98.030	207.9
15	97.120	26.05	97.740	144.5	106.890	17398 *	98.590	477.9	98.290	291.2	97.990	209.8 *
16	97.390	59.57 #	97.690	137.6	105.430	12151 *	98.590	481.5	98.210	279.4	97.930	187.6
17	97.540	63.10	97.990	207.4	102.515	4174	99.270	809.3 *	98.190	268.6	97.900	168.6
18	97.520	60.48	98.280	431.5 *	101.880	3596	103.820	6335	98.300	313.6 *	97.840	163.8
19	98.000	226.5	98.410	513.7 *	101.150	2600	105.990	14033 *	98.260	289.1	97.800	149.6
20	98.230	284.7	98.340	380.3	100.560	2019	104.690	9904 *	98.230	264.8	97.770	155.8
21	101.590	2952 *	98.230	338.1	100.790	2164	103.280	5578	98.290	293.6	97.800	167.6
22	103.630	6511 *	98.090	282.4	100.450	1912	101.900	3450	98.280	306.2 *	97.770	150.5 *
23	102.440	4186	98.110	304.7	100.470	1831 *	101.190	2690	98.160	253.0	97.720	154.1
24	101.860	3233	99.360	1154	100.110	1678	100.610	1928	98.120	250.4 *	97.660	143.4
25	101.735	2987	99.440	1239	99.930	1432	100.990	2431 *	98.110	247.1 *	97.620	116.5 *
26	100.830	2222	99.640	1501 *	99.450	1118	100.410	1620	98.080	187.6	97.590	135.2
27	99.950	1913	101.340	2807	99.290	822.4 #	99.930	1311 *	98.090	198.9	97.550	127.6
28	99.720	1577 *	101.370	2892	99.140	726.8 #	99.540	999.5	98.100	200.7	97.530	119.7
29	99.320	1374	100.330	1896	99.520	1183	99.230	939.3	98.120	250.4 *	97.510	94.82 *
30	98.960	1079	99.690	1525	99.700	1120 *	99.110	708.5 #	98.190	232.5	97.510	115.1
31			99.210	1298	100.670	2192			98.150	223.1		
-Daily Mean												
Ten-Dai	97.152	33.54	98.410	591.6	99.923	2223	100.235	1776	98.636	481.9	98.146	230.7
Ten-Dai	97.385	79.97	97.984	252.7	102.411	5536	100.623	3411	98.281	306.0	97.927	184.5
Ten-Da	101.004	2803	99.528	1385	99.956	1471	100.619	2166	98.154	240.3	97.626	132.4
Monthly												
Min.	96.990	18.04	97.690	137.6	98.190	377.6	98.590	468.2	98.080	187.6	97.510	94.82
Max.	103.630	6511	101.370	2892	106.890	17398	105.990	14033	98.940	609.9	98.260	263.2
Mean	98.514	972.3	98.669	763.8	100.737	3025	100.492	2451	98.350	339.4	97.900	182.5

Annual Runoff in MCM = 20904 Annual Runoff in mm = 192

Peak Observed Discharge = 7113 cumecs on 07/08/2015 Corres. Water Level :103.215 m

Lowest Observed Discharge = 11.86 cumecs on 04/05/2016 Corres. Water Level :96.76 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 : TEKRA (AGH00C4) **Division : Wainganga Div., Nagpur**

Local River : Pranhita **Sub-Division : L Wainganga SD, Chandrapur**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	97.490	73.54 #	97.170	40.24	97.220	42.99	97.140	34.44	96.900	20.52	96.780	13.26 *
2	97.470	71.07 #	97.160	40.11	97.210	42.49	97.120	33.95	96.900	20.30	96.770	11.91
3	97.530	78.62 #	97.150	37.84 *	97.200	41.63	97.130	34.30	96.900	19.69 *	96.770	11.90
4	97.540	79.92 #	97.140	39.36	97.210	42.50	97.130	34.29	96.890	20.17	96.760	11.86
5	97.560	82.55 #	97.140	39.91	97.240	43.81	97.130	34.23	96.890	19.60	96.790	12.78
6	97.540	79.92 *	97.100	38.32	97.240	44.04	97.130	36.15 *	96.880	19.79	96.810	13.93
7	97.490	67.64	97.090	37.05	97.240	46.02 *	97.130	34.25	96.870	19.51	96.790	12.59
8	97.490	68.34	97.070	36.60	97.230	43.53	97.120	34.24	96.870	19.40 *	96.790	13.74 *
9	97.490	69.57	97.060	36.48	97.230	43.05	97.110	34.53	96.860	19.43	96.840	15.38
10	97.490	66.66	97.050	29.79 *	97.180	42.57	97.110	34.05	96.850	16.84 *	96.830	15.04
11	97.440	64.54	97.030	34.08	97.160	41.33	97.090	33.69	96.840	19.33	96.830	13.83
12	97.360	58.74	97.060	34.91	97.130	38.46	97.070	33.44	96.840	19.07	96.820	13.93
13	97.330	55.10 *	97.130	34.47	97.120	38.10	97.070	31.32 *	96.830	18.39	96.820	13.50
14	97.270	42.89	97.130	34.23	97.100	33.68 *	97.070	33.31	96.830	18.16	96.820	13.33
15	97.250	43.94	97.120	33.77	97.090	37.19	97.060	33.05	96.820	18.34	96.820	15.25 *
16	97.150	40.44	97.120	33.79	97.070	36.43	97.020	31.36	96.820	18.17	96.820	13.58
17	97.150	39.42	97.120	35.31 *	97.070	35.86	96.990	23.08	96.820	15.25 *	96.810	12.62
18	97.180	45.96	97.130	34.25	97.050	34.34	96.990	23.00	96.810	16.56	96.830	14.50
19	97.160	43.15	97.130	34.38	97.040	35.90	96.980	23.77	96.810	14.73 *	96.830	14.59
20	97.210	43.19 *	97.170	39.73	97.030	35.49	96.970	24.12 *	96.810	16.50	96.840	15.02
21	97.270	52.12	97.190	39.66	97.030	28.31 *	96.970	23.34	96.800	16.25	96.840	16.30 *
22	97.250	48.65	97.190	39.37	97.010	26.87 #	96.960	22.37	96.800	15.94	96.840	16.30 *
23	97.250	46.38	97.200	39.53	97.010	26.87 #	96.950	22.00	96.790	13.01	96.820	14.24
24	97.230	45.07 *	97.220	44.12 *	97.080	30.10	96.940	22.16 *	96.790	13.74 *	96.820	14.33
25	97.230	45.07 *	97.230	41.63	97.160	35.25	96.930	21.53 *	96.790	12.82	96.820	14.19
26	97.230	44.85	97.250	46.98 *	97.190	36.11	96.930	21.88	96.790	12.63	96.790	13.48
27	97.220	44.12 *	97.250	44.83	97.190	36.60	96.920	20.91 *	96.790	12.62	96.790	13.16
28	97.210	43.24	97.250	45.20	97.190	41.37 *	96.920	21.60	96.780	12.54	96.790	12.76
29	97.190	42.90	97.260	45.38	97.160	35.42	96.920	20.92	96.780	12.48	96.790	13.74 *
30	97.180	41.72	97.240	43.81			96.910	20.88	96.780	12.08	96.790	12.73
31	97.170	40.64	97.230	45.07 *			96.910	21.59			96.770	11.91
-Daily M												
Ten-Dai	97.509	73.78	97.113	37.57	97.220	43.26	97.125	34.44	96.881	19.53	96.793	13.24
Ten-Dai	97.250	47.74	97.114	34.89	97.086	36.68	97.031	29.01	96.823	17.45	96.824	14.01
Ten-Da	97.221	44.98	97.228	43.24	97.113	32.99	96.933	21.74	96.789	13.41	96.805	13.92
Monthly												
Min.	97.150	39.42	97.030	29.79	97.010	26.87	96.910	20.88	96.780	12.08	96.760	11.86
Max.	97.560	82.55	97.260	46.98	97.240	46.02	97.140	36.15	96.900	20.52	96.840	16.30
Mean	97.323	55.16	97.154	38.72	97.141	37.8	97.026	28.18	96.831	16.8	96.807	13.73

Peak Computed Discharge = 17398 cumecs on 15/08/2015 Corres. Water Level :106.89 m

Lowest Computed Discharge = 13.26 cumecs on 01/05/2016 Corres. Water Level :96.78 m

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

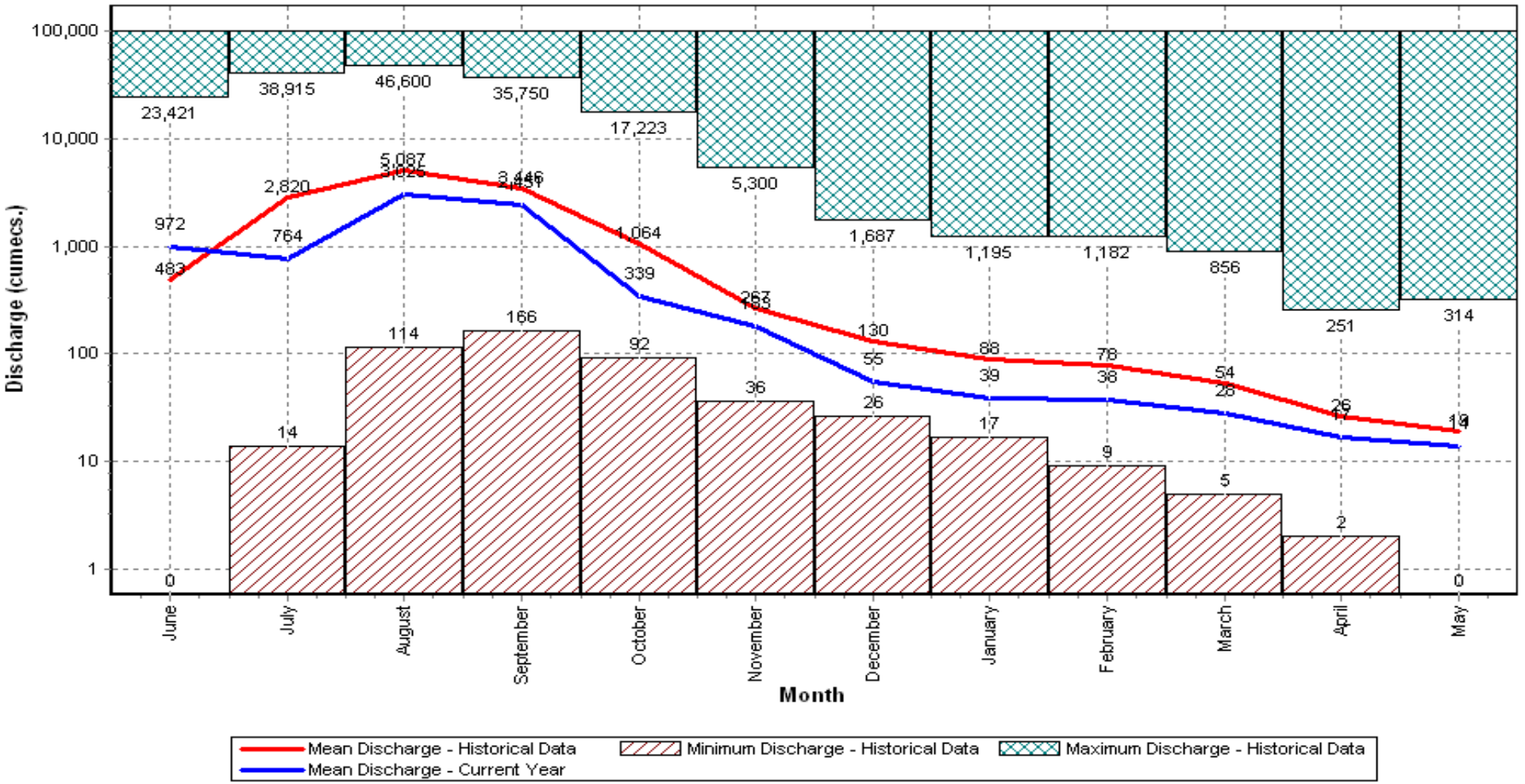
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016

Station Name : TEKRA (AGH00C4) | **Data considered : 1964-2016** | **Division : Wainganga Div., Nagpur**

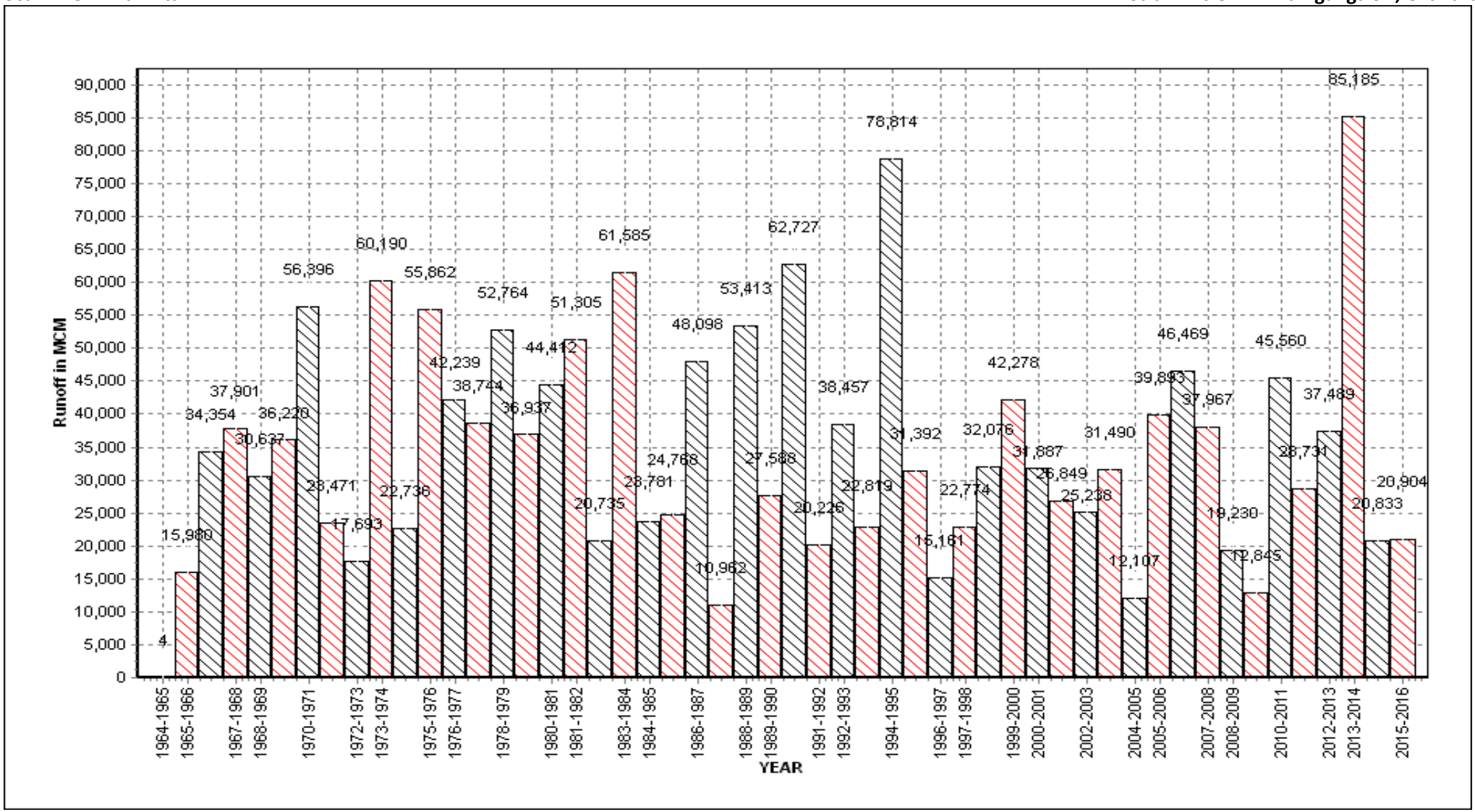
Local River : Pranhita | **Sub-Division : L Wainganga SD, Chandrapur**



Annual Runoff Values for the period: 1964 - 2016

Station Name : TEKRA (AGH00C4) **Division : Wainganga Div., Nagpur**

Local River : Pranhita **Sub-Division : L Wainganga SD, Chandrapur**

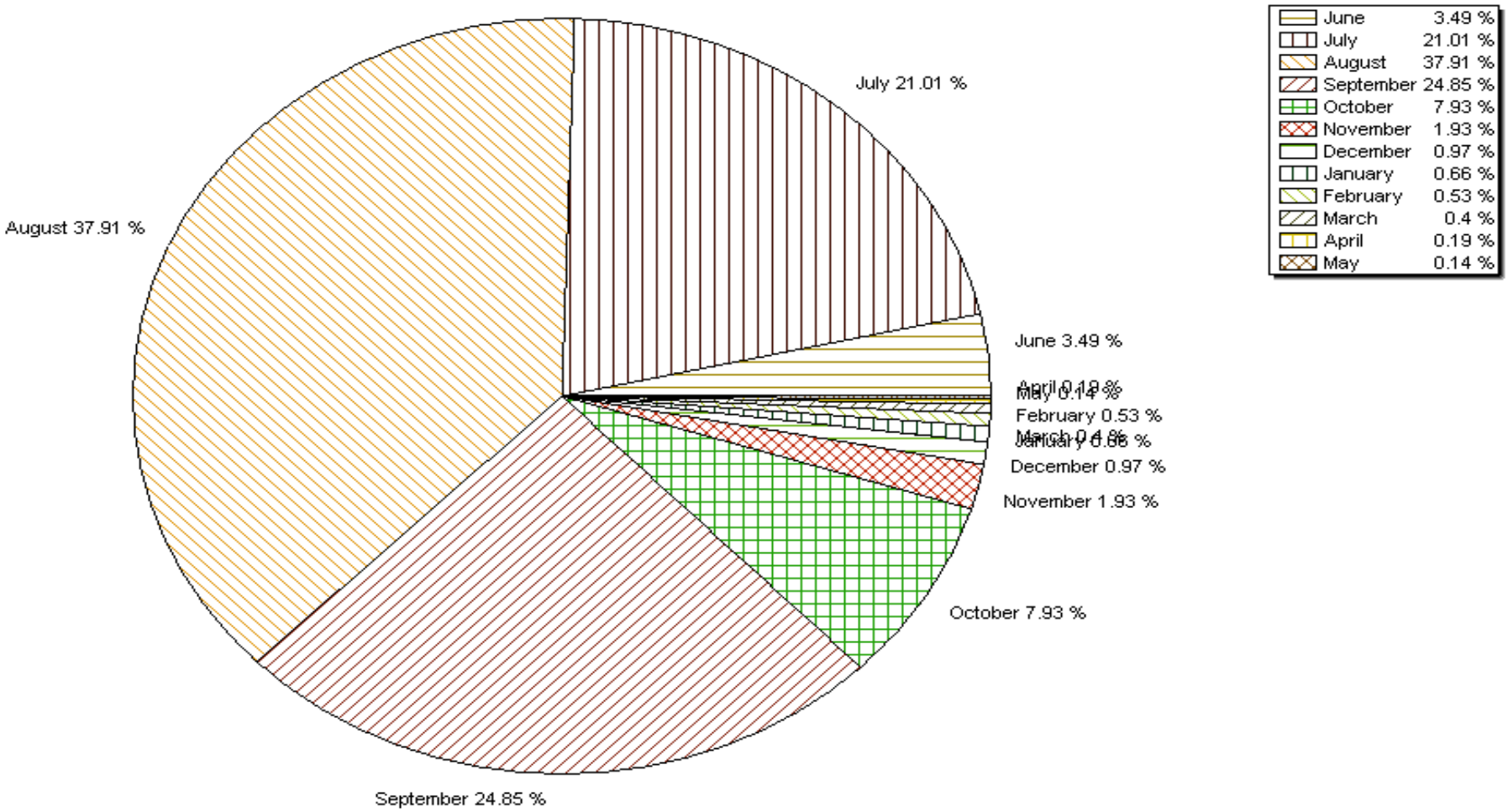


Note: Missing values have not been considered while arriving at Annual Runoff

Monthly Average Runoff based on period : 1964-2015

Station Name : TEKRA (AGH00C4) **Division : Wainganga Div., Nagpur**

Local River : Pranhita **Sub-Division : L Wainganga SD, Chandrapur**



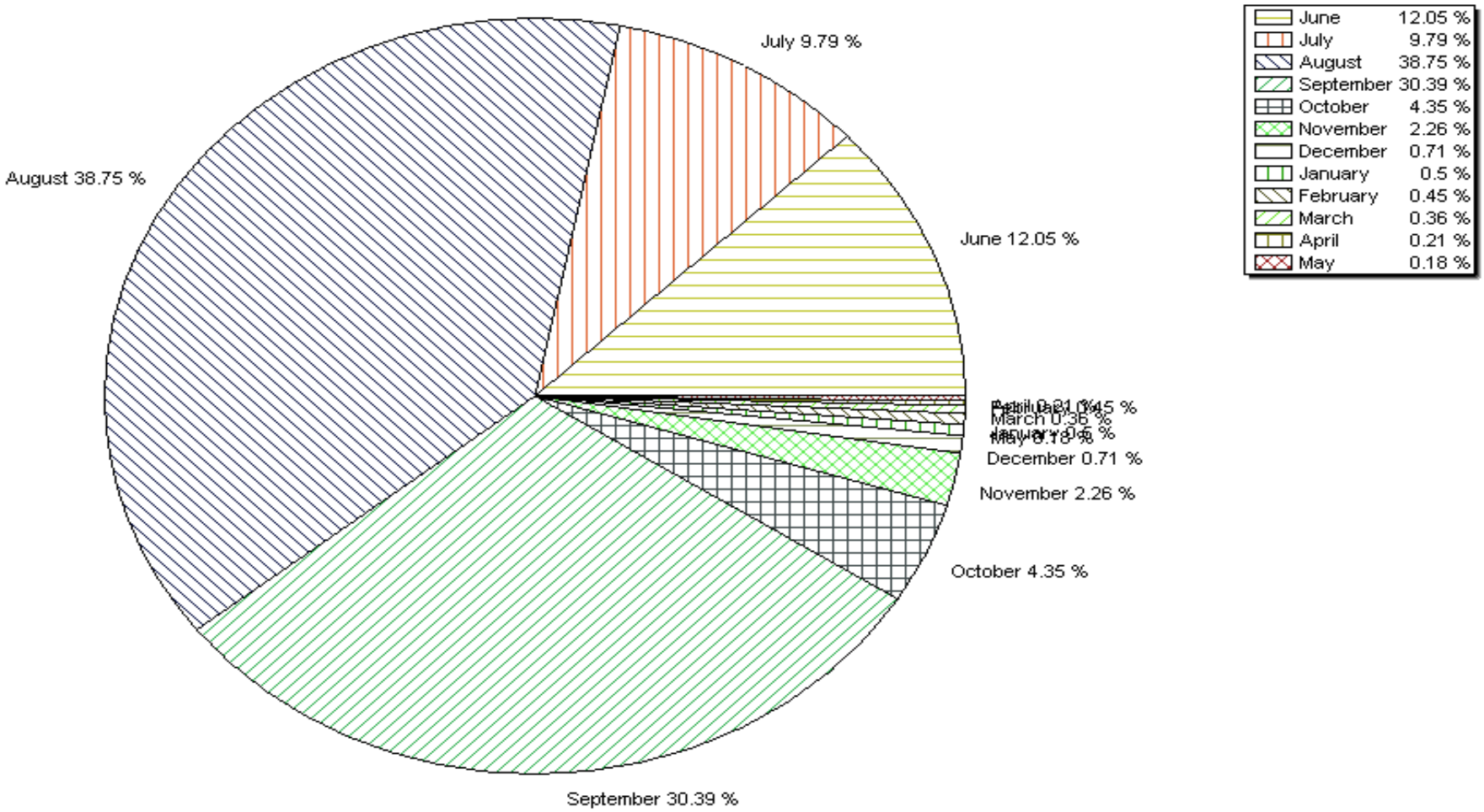
Monthly Runoff for the Year : 2015-2016

Station Name : TEKRA (AGH00C4)

Local River : Pranhita

Division : Wainganga Div., Nagpur

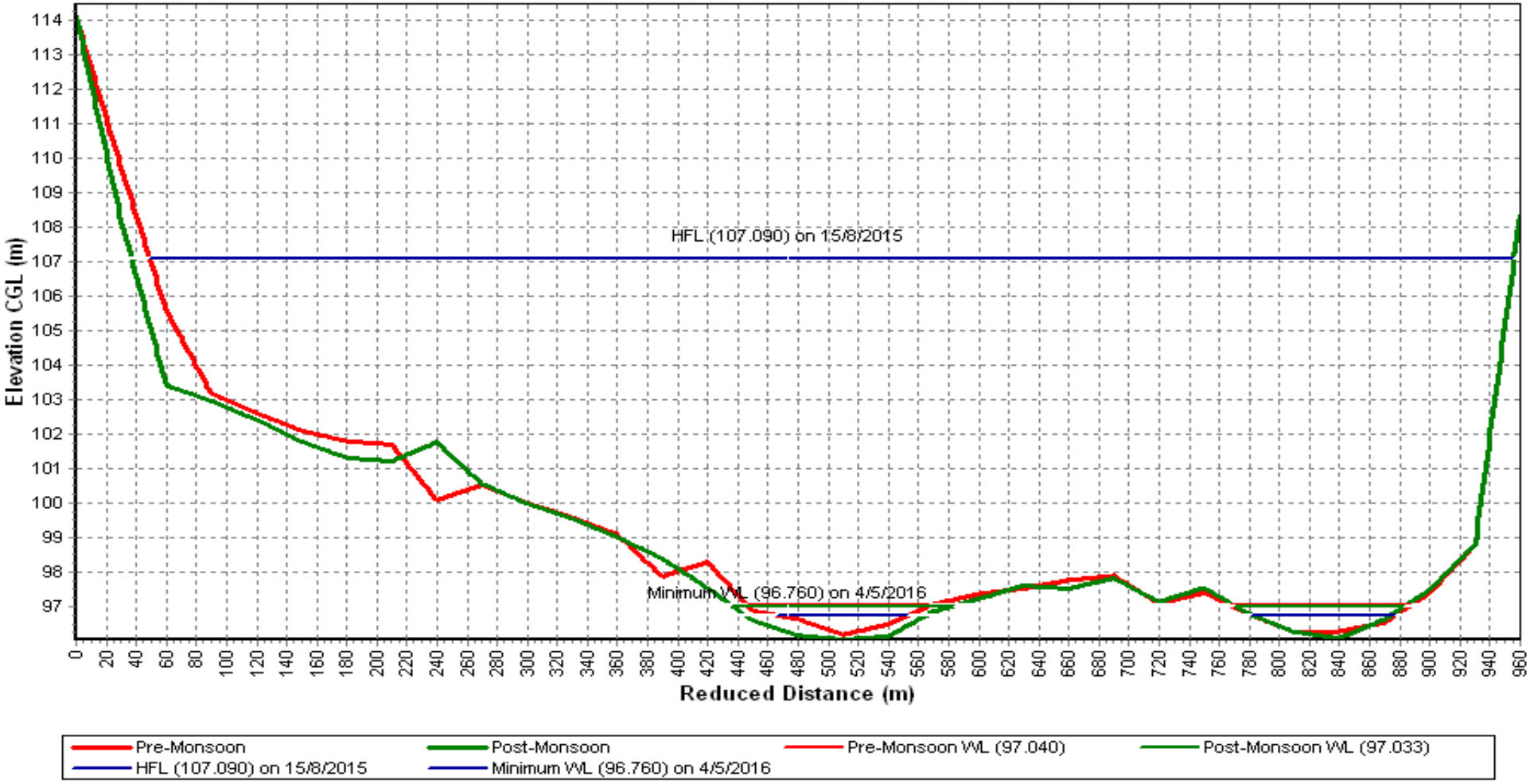
Sub-Division : L Wainganga SD, Chandrapur



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

Station Name : TEKRA (AGH00C4) **Division : Wainganga Div., Nagpur**

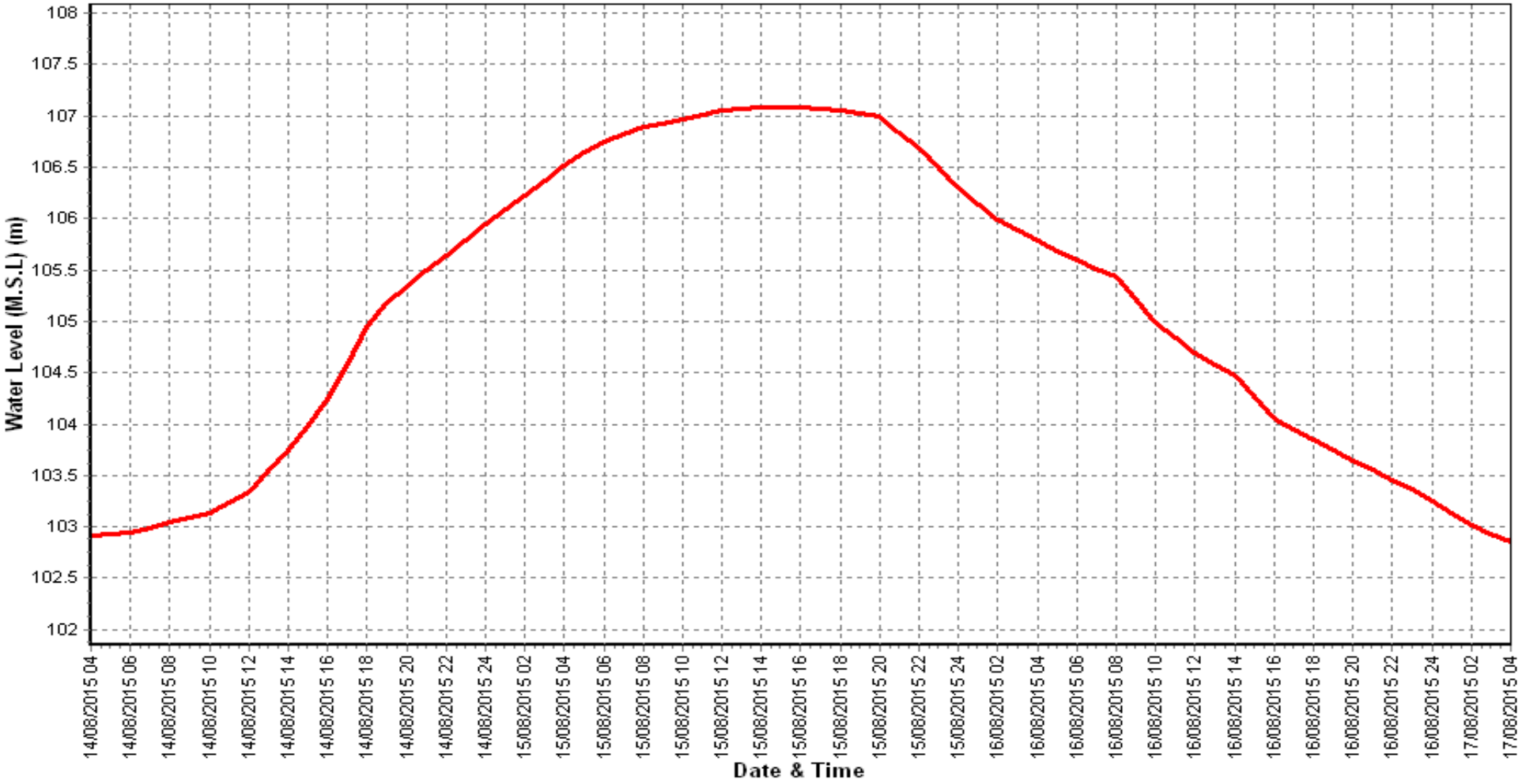
Local River : Pranhita **Sub-Division : L Wainganga SD, Chandrapur**



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

Station Name : TEKRA (AGH00C4) **Division : Wainganga Div., Nagpur**

Local River : Pranhita **Sub-Division : L Wainganga SD, Chandrapur**

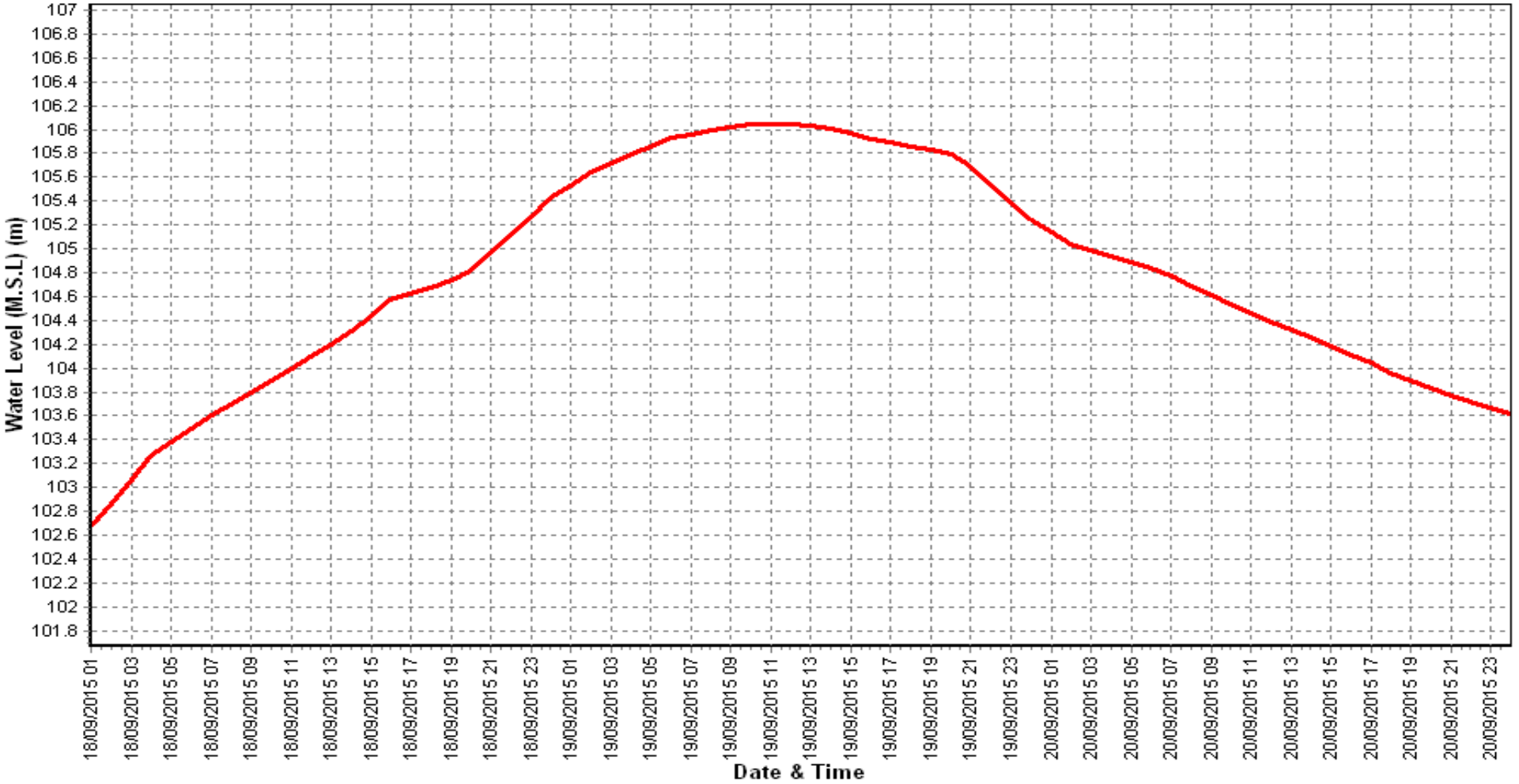


Time Span: 72 Hrs

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

Station Name : TEKRA (AGH00C4) **Division : Wainganga Div., Nagpur**

Local River : Pranhita **Sub-Division : L Wainganga SD, Chandrapur**

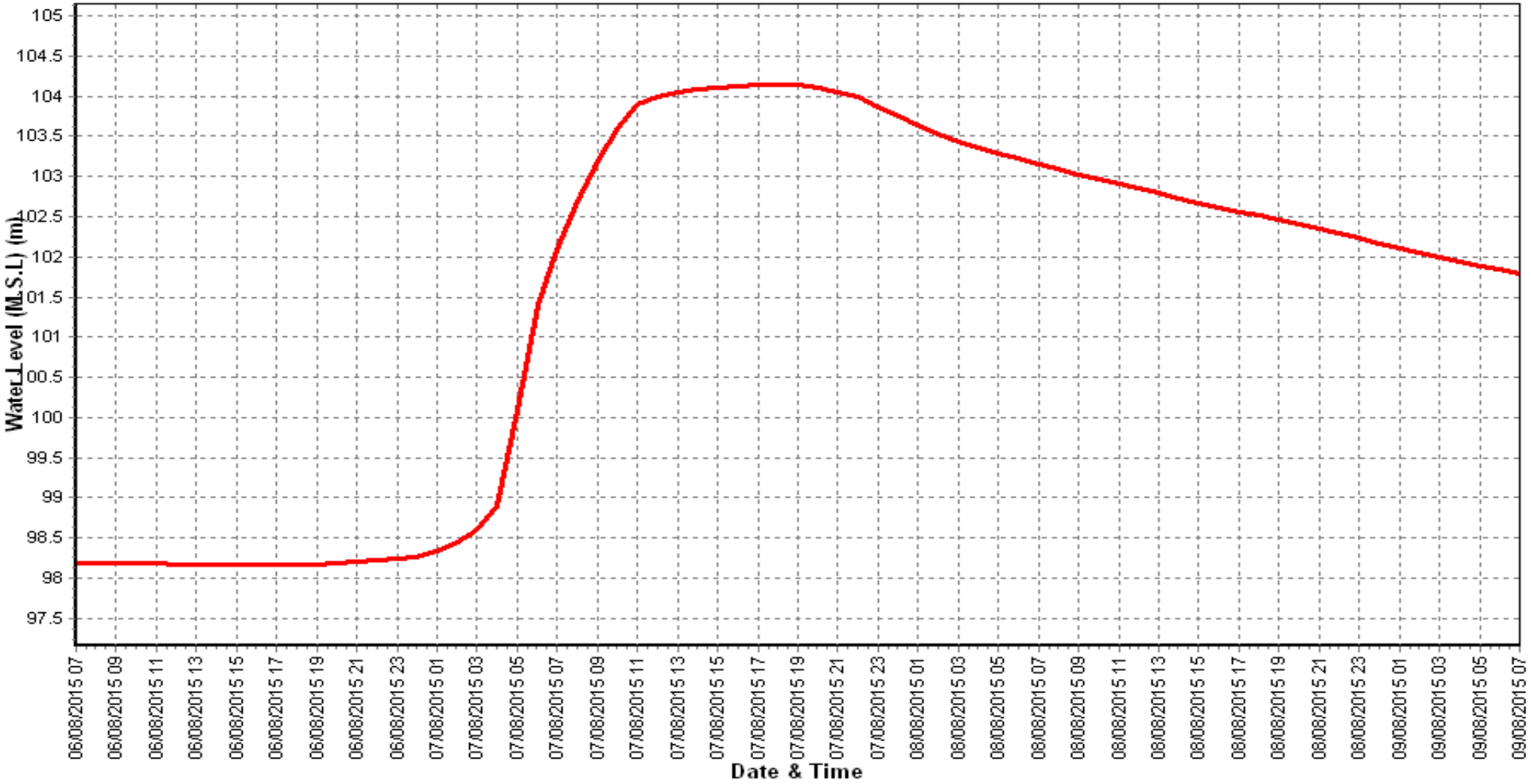


Time Span: 72 Hrs

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

Station Name : TEKRA (AGH00C4) **Division : Wainganga Div., Nagpur**

Local River : Pranhita **Sub-Division : L Wainganga SD, Chandrapur**



Time Span: 72 Hrs

HISTORY SHEET

Water Year : 2015-2016

Site	**: BHATPALLI**		**Code**	**: AGH10L0**	
State	: Telangana		District	Adilabad	
Basin	: Godavari		Independent River	: Godavari	
Tributary	: Pranhita		Sub Tributary	: Wardha	
Sub-Sub Tributary	: -		Local River	: Peddavagu	
Division	: Wainganga Div., Nagpur		Sub-Division	: Wardha SD, Chandrapur	
Drainage Area	: 3100 Sq. Km.		Bank	: Left	
Latitude	: 19°19'50"		Longitude	: 79°30'14"	
Zero of Gauge (m)	: 156 (m.s.l)		12.08.1986		
	Opening Date		Closing Date		
Gauge	: 12.08.1986		**HFL During 2015-16**	**: 164.870**	
			Corres. Discharge	**: 3491.863 Cumecs(Estimated)**	
Discharge	: 01.10.1986		**Date & Time of Occurance**	**: 17.09.2015 : 17.00 hrs.**	
Sediment	: 07.10.1988				
Water Quality	: 04.01.1988				

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

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1987-1988	139.2	161.390	20.08.1987	0.000	159.855	30.05.1988
1988-1989	3750	168.500	02.10.1988	0.000		03.06.1988
1989-1990	1730	165.510	23.07.1989	0.850	159.610	02.06.1989
1990-1991	3810	168.430	29.08.1990	2.368	159.900	04.05.1991
1991-1992	1196	161.700	12.07.1991	0.680	158.695	29.05.1992
1992-1993	3058	164.528	19.06.1992	0.000	158.685	10.05.1993
1993-1994	373.2	161.530	01.08.1993	0.184	158.840	31.05.1994
1994-1995	2247	163.100	12.08.1994	0.000	158.800	02.06.1994
1995-1996	7862	167.330	20.10.1995	0.750	158.450	29.05.1996
1996-1997	1567	163.175	07.09.1996	0.626	158.920	31.05.1997
1997-1998	253.2	160.650	22.08.1997	0.220	159.150	27.05.1998
1998-1999	1360	162.705	11.08.1998	0.000	159.100	02.06.1998
1999-2000	581.2	161.520	18.06.1999	0.890	159.090	30.04.2000
2000-2001	6653	166.120	28.08.2000	0.550	158.750	27.05.2001
2001-2002	1151	162.310	14.06.2001	1.391	158.860	13.05.2002
2002-2003	402.4	161.420	25.08.2002	0.349	158.645	31.05.2003
2003-2004	687.5	161.820	08.08.2003	0.348	158.640	01.06.2003
2004-2005	218.7	160.585	11.09.2004	0.030	158.890	20.05.2005
2005-2006	1645	162.900	05.08.2005	0.000		14.06.2005
2006-2007	4008	165.750	05.08.2006	0.289	158.920	19.06.2006
2007-2008	1422	162.680	18.09.2007	0.517	158.580	26.05.2008
2008-2009	925.5	162.400	04.08.2008	0.475	158.580	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	201.5	160.200	01.09.2009	0.010	158.370	27.04.2010
2010-2011	1246	162.950	30.07.2010	0.000	158.380	12.06.2010
2011-2012	333.4	161.000	28.08.2011	0.311	158.500	28.05.2012
2012-2013	1087	162.020	23.07.2012	0.396	158.500	06.06.2012
2013-2014	2308	164.000	23.07.2013	1.346	158.510	03.06.2013
2014-2015	1536	162.300	08.09.2014	2.318	158.790	31.05.2015

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

Stage-Discharge Data for the period 2015 - 2016

Station Name : BHATPALLI (AGH10L0) **Division : Wainganga Div., Nagpur**

Local River : **Sub-Division : Wardha SD, Chandrapur**

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	158.870	3.128 #	159.345	30.41	159.060	11.38	159.100	16.18	159.170	16.07	159.120	8.290 *
2	158.850	2.693 #	159.400	36.08	159.040	11.06 *	159.070	14.14	159.160	19.62 *	159.120	8.516
3	158.830	2.296 #	159.355	30.25	159.030	9.590	159.050	10.78	159.170	17.90	159.120	8.515
4	158.830	2.311	159.200	20.41	159.035	8.675	159.110	16.20	159.170	20.45 *	159.120	8.582
5	158.960	5.245	159.150	13.80 *	159.050	10.30	159.070	14.95	159.160	17.48	159.120	8.922
6	158.950	4.970	159.110	12.62	159.050	11.27	159.050	11.68 *	159.150	15.92	159.120	8.517
7	158.830	2.296 *	159.090	9.937	159.060	11.18	159.030	9.468	159.140	15.28	159.120	8.487
8	158.840	2.805	159.070	10.10	159.050	11.13	159.020	10.01	159.140	13.71	159.120	8.290 *
9	158.840	2.784	159.050	7.920	159.050	11.68 *	159.100	18.21	159.140	9.479 #	159.120	8.028
10	158.895	4.227	159.040	9.065	159.080	13.79	159.110	19.71	159.130	8.873 #	159.120	8.156
11	158.910	4.528	159.030	7.846	159.750	98.52 *	159.090	16.23	159.130	8.873 *	159.120	8.290 *
12	158.945	5.996	159.030	8.112 *	159.485	59.12	159.050	12.91	159.130	8.873 #	159.110	8.333
13	158.990	6.193	159.020	7.468	159.660	82.48 *	159.040	11.06 *	159.120	8.290 #	159.110	8.026
14	159.060	9.368 *	159.010	6.113	159.570	67.90 *	159.200	23.75	159.120	9.847	159.110	7.751
15	159.140	11.73	159.010	7.521	159.290	31.73 *	159.520	60.42 *	159.120	9.995	159.110	7.730 *
16	159.175	13.20	159.030	7.186	159.150	18.81 *	159.400	44.28 #	159.110	7.730 #	159.120	8.597
17	159.290	18.66	159.020	6.451	159.110	16.84	161.950	951.7 *	159.130	10.74	159.120	8.137
18	159.155	13.29	159.010	7.333 *	159.290	36.25	161.400	654.3 *	159.140	9.479 *	159.120	8.907
19	159.540	46.08 *	159.090	10.73 *	159.235	26.91	160.140	184.9 *	159.150	10.37	159.120	8.216
20	159.230	16.94	159.120	13.27	159.145	20.78	159.950	139.4 *	159.150	9.001	159.120	8.075
21	160.000	116.5 *	159.050	9.136	159.160	21.20	159.720	93.01 *	159.150	8.412	159.110	8.043
22	161.900	904.5 *	159.100	18.10	159.100	15.36	159.425	49.80	159.150	10.11 *	159.110	7.730 *
23	159.910	99.64 *	159.515	54.82	159.060	12.31 *	159.310	37.98	159.150	9.129	159.100	7.313
24	159.385	37.85	159.730	94.83 *	159.040	12.49	159.270	32.29	159.150	10.11 *	159.100	7.057
25	159.290	25.42	159.880	124.3 *	159.030	10.83	159.250	27.69 *	159.150	10.11 *	159.100	7.194 *
26	159.210	17.34 #	159.740	96.67 *	159.030	11.03	159.230	25.35	159.140	9.436	159.090	6.060
27	159.160	13.99	159.270	28.23	159.020	10.24	159.220	24.84 *	159.130	8.716	159.080	5.764
28	159.150	13.80 *	159.170	21.81	159.040	11.35	159.200	22.99	159.130	8.533	159.080	6.048
29	159.140	12.21	159.140	17.50	159.230	23.75	159.190	19.79	159.130	8.341	159.080	6.187 *
30	159.110	10.66	159.100	15.63	159.110	15.75 *	159.180	19.06	159.120	7.603	159.070	5.240
31			159.080	13.78	159.050	12.80			159.120	7.830		
Daily Mean												
Ten-Dai	158.869	3.276	159.181	18.06	159.051	11.00	159.071	14.13	159.153	15.48	159.120	8.430
Ten-Da	159.144	14.60	159.037	8.203	159.368	45.93	159.874	209.9	159.130	9.319	159.116	8.206
Ten-Da	159.626	125.2	159.343	44.98	159.079	14.28	159.299	35.28	159.138	8.938	159.092	6.664
Monthly												
Min.	158.830	2.296	159.010	6.113	159.020	8.675	159.020	9.468	159.110	7.603	159.070	5.240
Max.	161.900	904.5	159.880	124.3	159.750	98.52	161.950	951.7	159.170	20.45	159.120	8.922
Mean	159.213	47.69	159.192	24.43	159.163	23.44	159.415	86.43	159.140	11.17	159.109	7.767

Annual Runoff in MCM = 585 Annual Runoff in mm = 189

Peak Observed Discharge = 59.12 cumecs on 12-08-2015 Corres. Water Level :159.485 m

Lowest Observed Discharge = 1.673 cumecs on 18-05-2016 Corres. Water Level :158.91 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 : BHATPALLI (AGH10L0) **Division : Wainganga Div., Nagpur**

Local River : **Sub-Division : Wardha SD, Chandrapur**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	159.070	5.681	159.040	4.093	159.000	3.250	159.030	5.488	158.990	2.963	158.960	2.606 *
2	159.070	5.641	159.040	4.058	159.000	3.267	159.080	11.12	158.980	2.929	158.960	2.860
3	159.080	6.020	159.030	3.989 *	159.000	3.190	159.060	8.786	158.980	2.945 *	158.960	2.804
4	159.080	6.091	159.030	3.722	159.000	3.264	159.040	7.045	158.980	2.900	158.970	3.133
5	159.070	5.539	159.030	3.688	159.000	3.206	159.070	8.928	158.980	2.868	158.970	3.116
6	159.070	5.106 *	159.030	3.689	159.000	3.230	159.050	7.294 *	158.980	2.845	158.980	2.945 #
7	159.070	5.108	159.030	3.667	159.000	3.256 *	159.040	7.018	158.990	3.309	159.000	3.308 #
8	159.070	5.128	159.020	3.624	158.990	3.073	159.020	5.748	158.990	3.123 *	158.990	3.123 *
9	159.060	4.679	159.020	3.599	158.990	3.044	159.010	4.569	158.980	2.796	158.980	3.452
10	159.060	4.602	159.020	3.735 *	158.990	3.028	159.000	4.212	158.980	2.945 *	158.970	3.429
11	159.060	4.774	159.020	3.952	158.990	2.987	159.000	3.813	158.980	2.645	158.960	3.058
12	159.060	4.781	159.020	3.937	159.000	3.365	159.000	3.734	158.980	2.696	158.960	2.899
13	159.060	4.811 *	159.020	3.771	159.000	3.248	159.000	3.798 *	158.970	2.425	158.950	2.390
14	159.050	4.493	159.020	3.714	159.000	3.256 *	158.990	3.358	158.970	2.772 *	158.940	2.322
15	159.050	4.389	159.020	3.698	159.010	3.755	158.990	3.322	158.970	2.428	158.930	2.144 *
16	159.050	4.488	159.020	3.609	159.020	4.838	159.000	4.075	158.970	2.551	158.920	1.999
17	159.050	4.478	159.020	3.735 *	159.020	4.725	159.030	4.917	158.970	2.772 *	158.910	1.860
18	159.050	4.141	159.010	3.778	159.020	4.972	159.020	4.312	158.970	2.764	158.910	1.673
19	159.050	4.180	159.010	3.737	159.030	5.136	159.010	3.865	158.970	2.772 *	158.910	1.845
20	159.050	4.527 *	159.010	3.862	159.030	5.190	159.010	3.499 *	158.970	2.735	158.910	1.972
21	159.050	4.411	159.010	3.742	159.030	5.733 *	159.000	3.137	158.970	2.678	158.910	1.865 *
22	159.050	4.406	159.010	3.552	159.030	5.189	158.990	2.913	158.970	2.675	158.910	1.865 *
23	159.050	4.270	159.010	3.479	159.030	5.406	158.990	2.942	158.970	2.585	158.910	1.874
24	159.050	4.527 *	159.010	3.491 *	159.030	5.468	158.990	3.123 *	158.970	2.772 *	158.910	1.789
25	159.040	4.253 *	159.010	3.503	159.020	5.298	158.990	3.123 *	158.960	2.487	158.910	1.753
26	159.040	4.111	159.010	3.491 *	159.020	5.210	158.990	3.065	158.960	2.531	158.910	1.826
27	159.040	4.253 *	159.010	3.858	159.020	5.329	158.990	3.123 *	158.960	2.663	158.900	1.716
28	159.040	4.312	159.010	3.437	159.020	5.036 *	159.000	3.377	158.960	2.577	158.900	1.738
29	159.040	4.034	159.000	3.215	159.020	5.956	158.990	3.163	158.960	2.833	158.900	1.734 *
30	159.040	4.010	159.000	3.310			158.990	3.254	158.960	3.035	158.900	1.739
31	159.040	4.033	159.000	3.256 *			158.990	2.927			158.900	1.754
Daily M												
Ten-Dai	159.070	5.359	159.029	3.786	158.997	3.181	159.040	7.021	158.983	2.962	158.974	3.077
Ten-Da	159.053	4.506	159.017	3.779	159.012	4.147	159.005	3.869	158.972	2.656	158.930	2.216
Ten-Da	159.044	4.238	159.007	3.485	159.024	5.403	158.992	3.104	158.964	2.684	158.905	1.787
Monthl												
Min.	159.040	4.010	159.000	3.215	158.990	2.987	158.990	2.913	158.960	2.425	158.900	1.673
Max.	159.080	6.091	159.040	4.093	159.030	5.956	159.080	11.12	158.990	3.309	159.000	3.452
Mean	159.055	4.686	159.017	3.677	159.011	4.204	159.012	4.614	158.973	2.767	158.935	2.342

Peak Computed Discharge = 951.7 cumecs on 17-09-2015 Corres. Water Level :161.95 m

Lowest Computed Discharge = 1.734 cumecs on 29-05-2016 Corres. Water Level :158.9 m

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

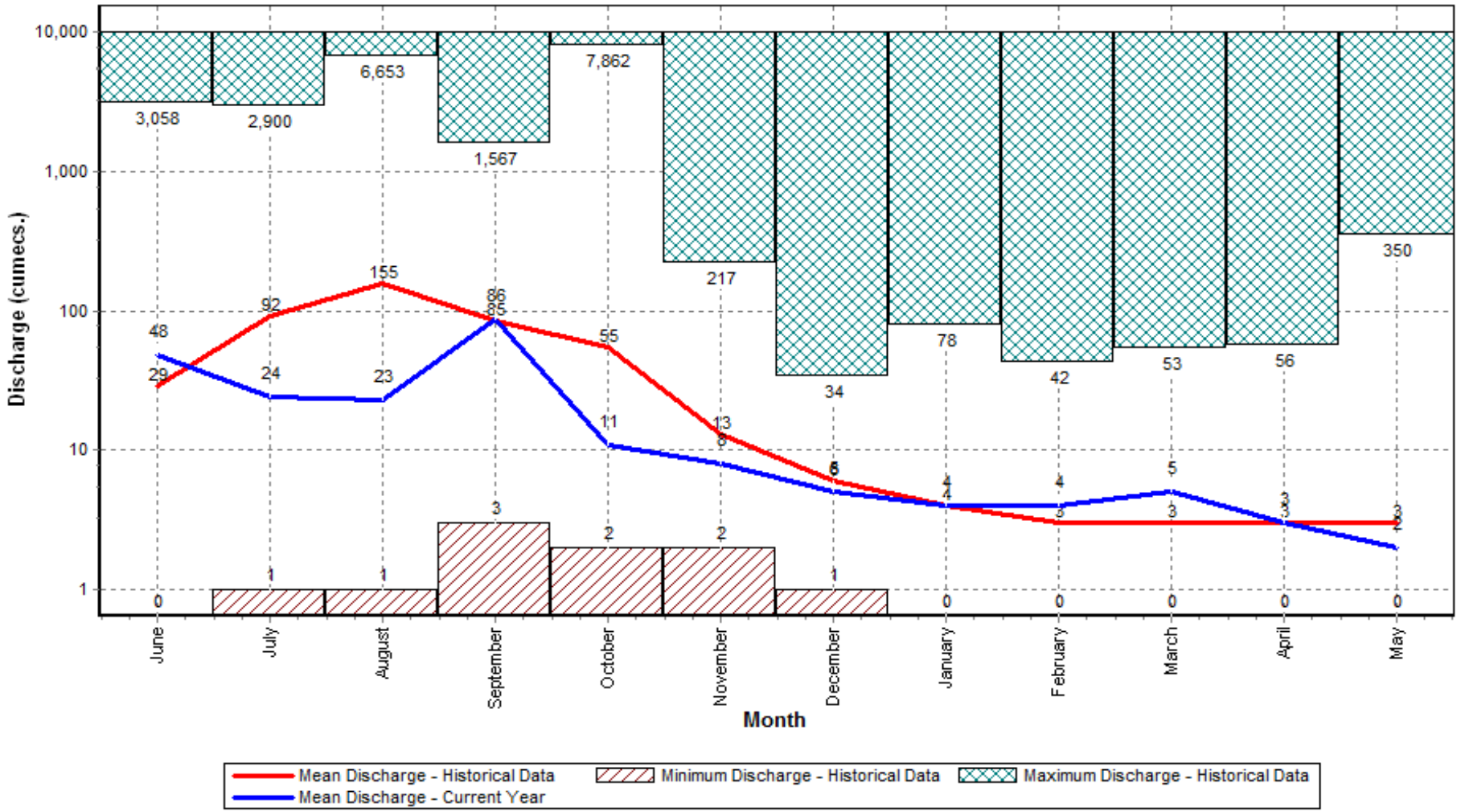
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016

Station Name : BHATPALLI (AGH10L0) **Data considered : 1987-2016** **Division : Wainganga Div., Nagpur**

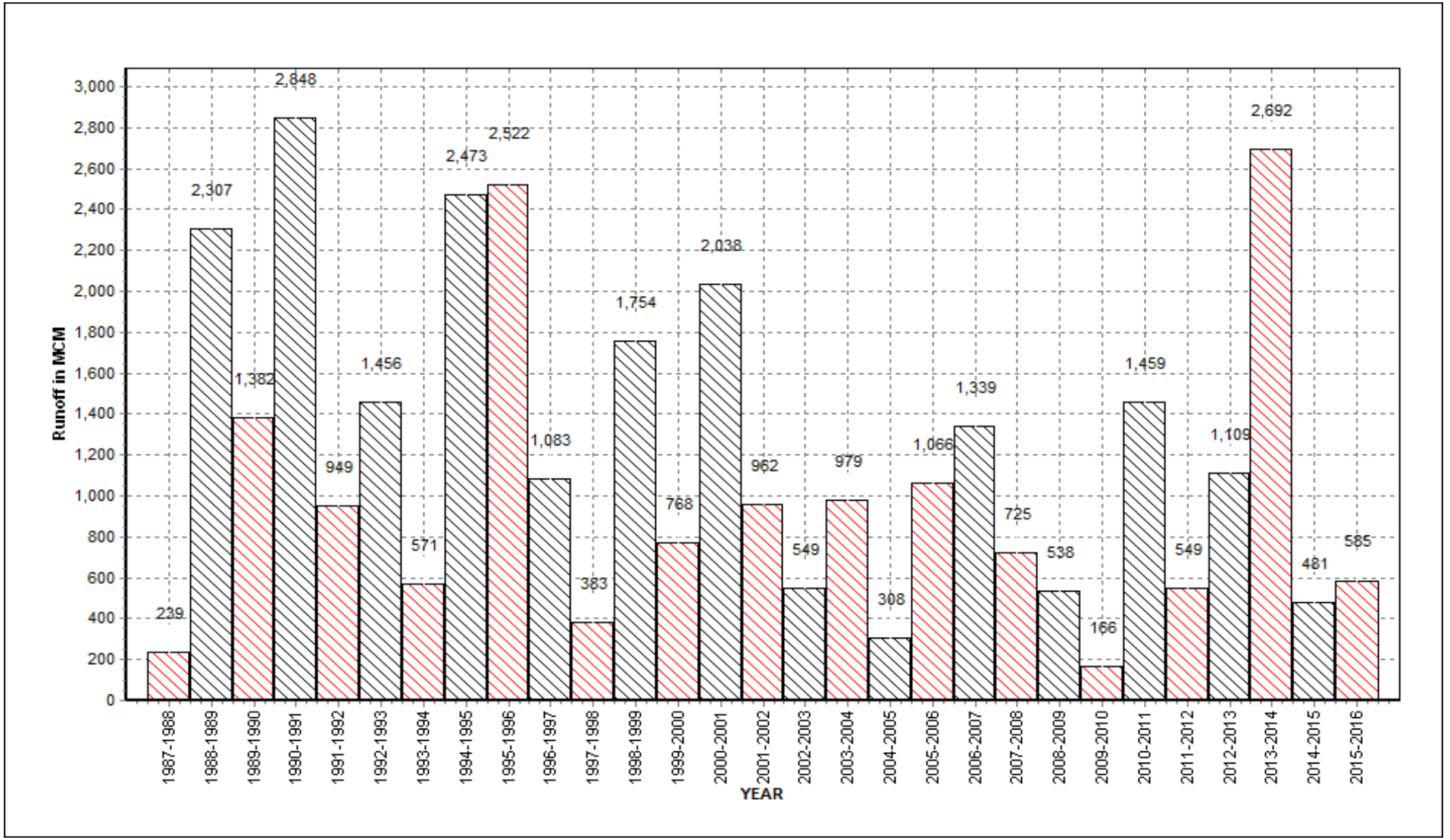
Local River : **Sub-Division : Wardha SD, Chandrapur**



Annual Runoff Values for the period: 1987 - 2016

Station Name : BHATPALLI (AGH10L0) **Division : Wainganga Div., Nagpur**

Local River : **Sub-Division : Wardha SD, Chandrapur**

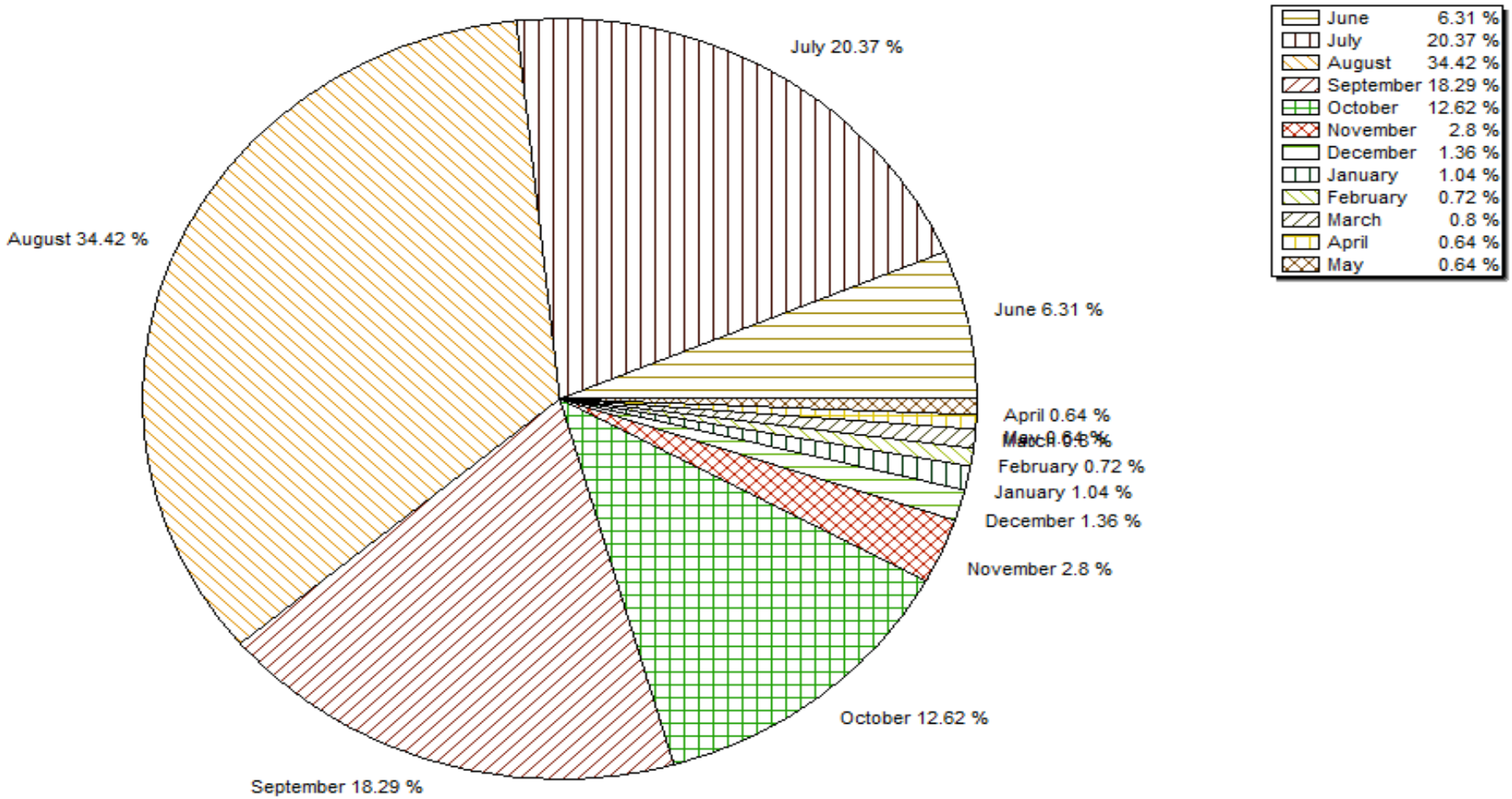


Note: Missing values have not been considered while arriving at Annual Runoff

Monthly Average Runoff based on period : 1987-2015

Station Name : BHATPALLI (AGH10L0) **Division : Wainganga Div., Nagpur**

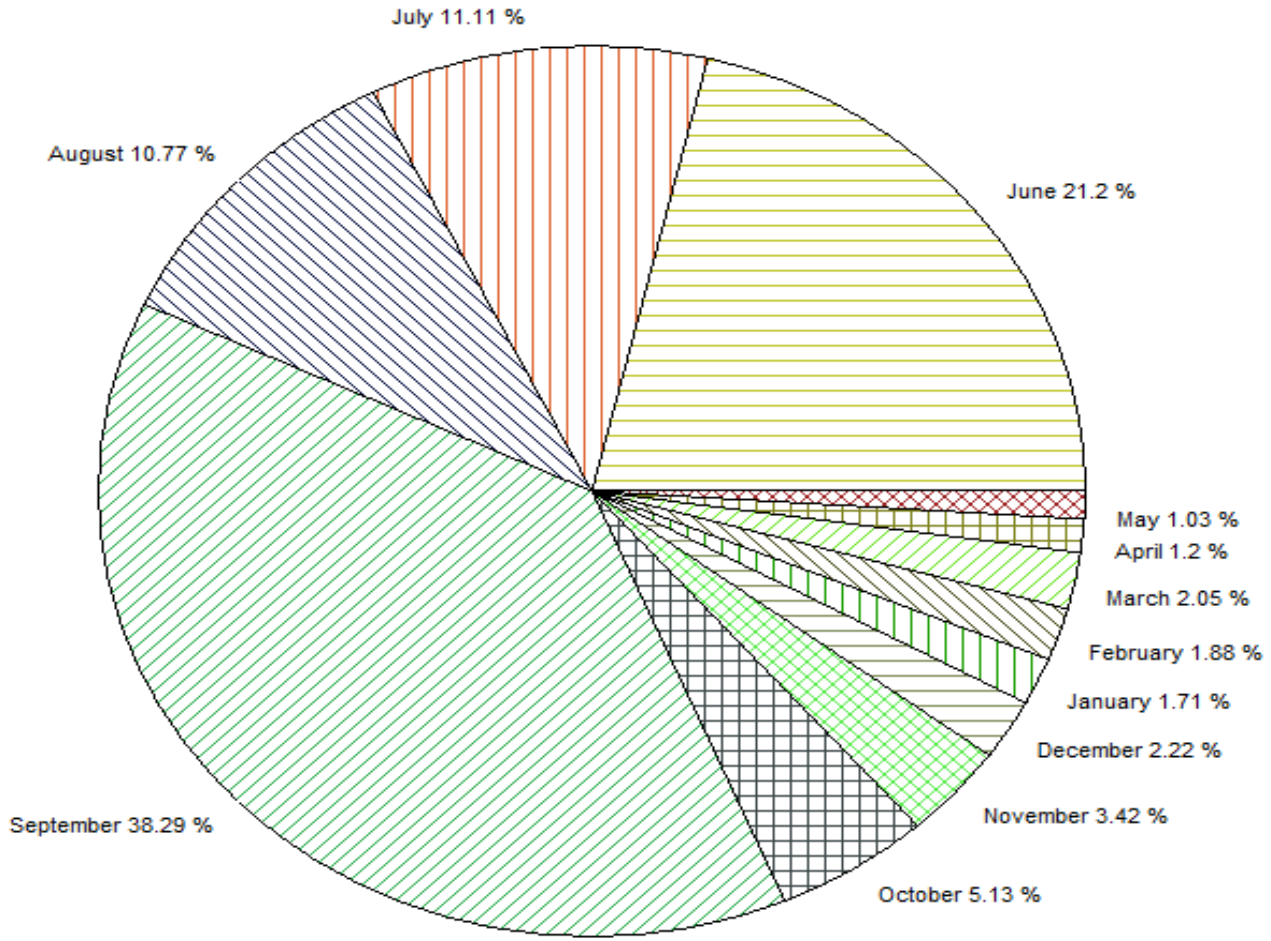
Local River : **Sub-Division : Wardha SD, Chandrapur**



Monthly Runoff for the Year : 2015-2016

Station Name : BHATPALLI (AGH10L0) **Division : Wainganga Div., Nagpur**

Local River : **Sub-Division : Wardha SD, Chandrapur**

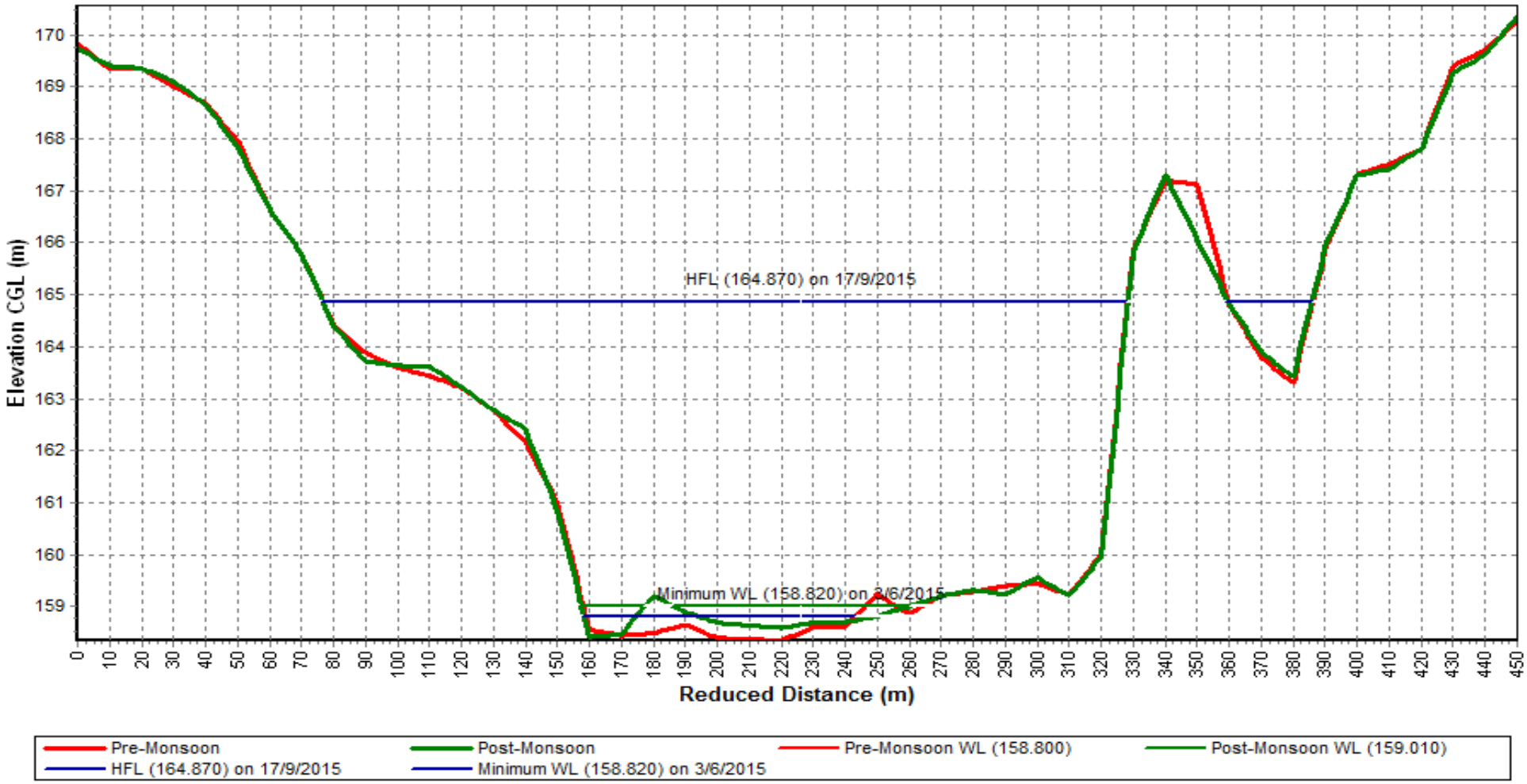


June	21.2 %
July	11.11 %
August	10.77 %
September	38.29 %
October	5.13 %
November	3.42 %
December	2.22 %
January	1.71 %
February	1.88 %
March	2.05 %
April	1.2 %
May	1.03 %

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

Station Name : BHATPALLI (AGH10L0) **Division : Wainganga Div., Nagpur**

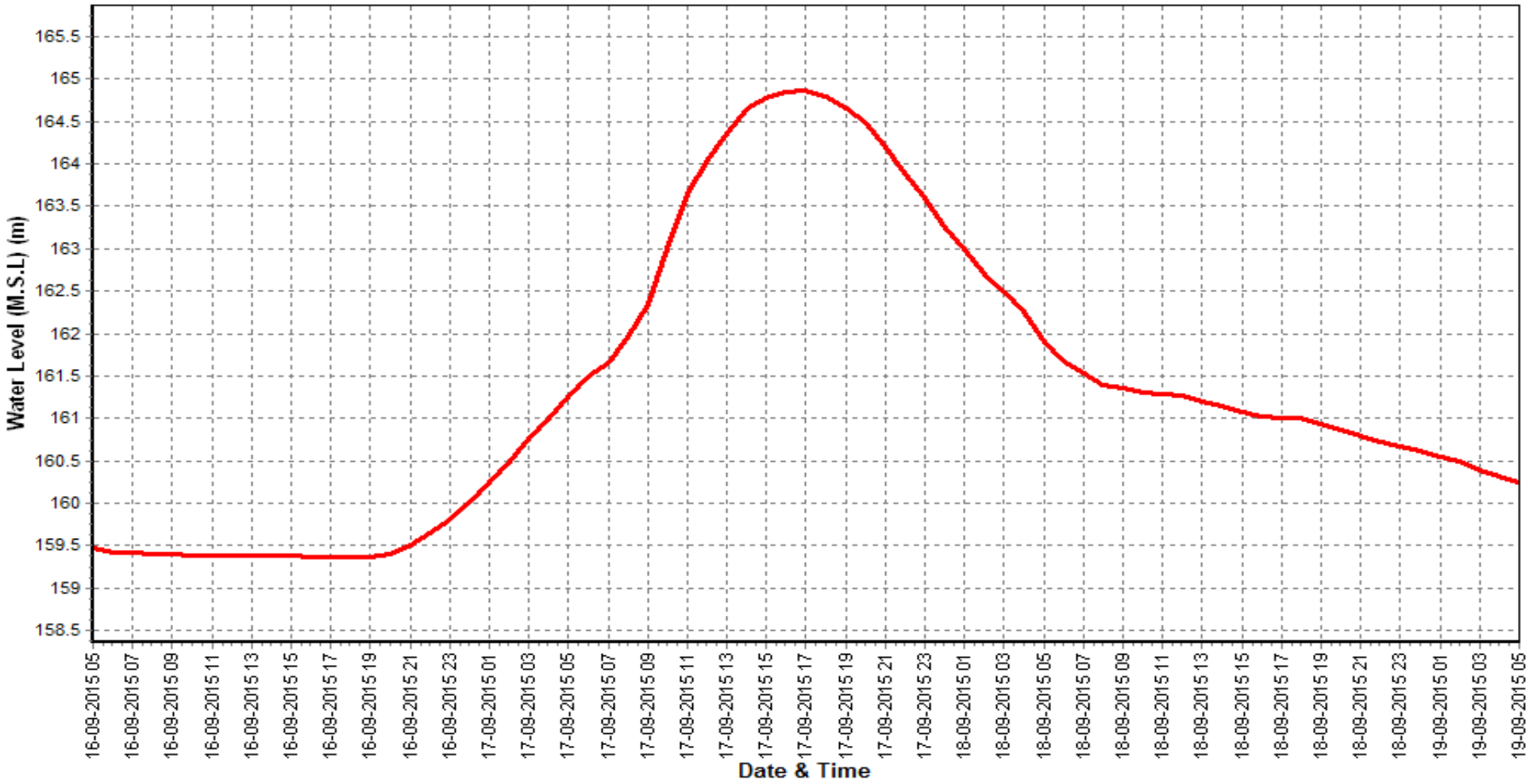
Local River : **Sub-Division : Wardha SD, Chandrapur**



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

Station Name : BHATPALLI (AGH10L0) **Division : Wainganga Div., Nagpur**

Local River : **Sub-Division : Wardha SD, Chandrapur**

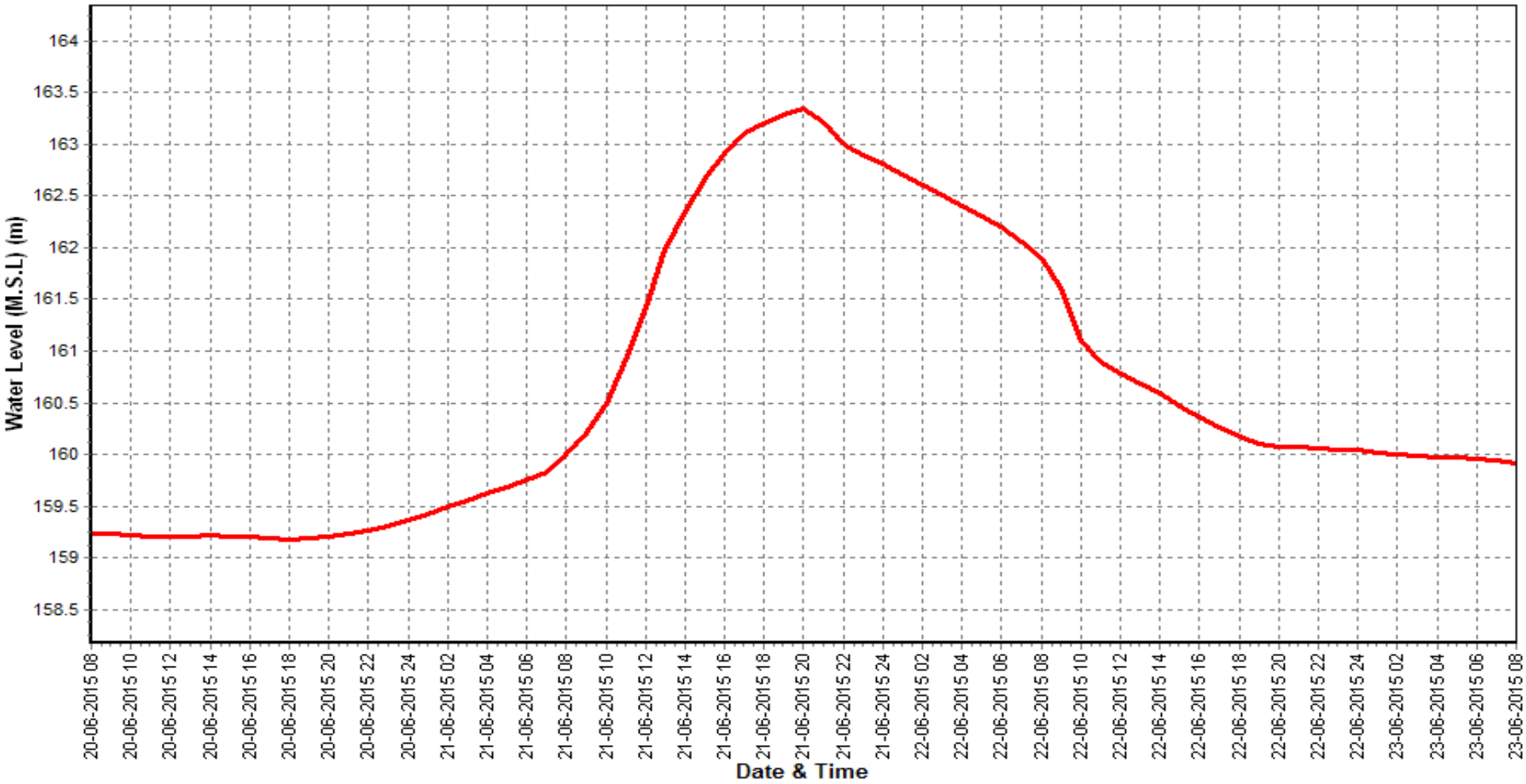


Time Span: 72 Hrs

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

Station Name : BHATPALLI (AGH10L0) **Division : Wainganga Div., Nagpur**

Local River : **Sub-Division : Wardha SD, Chandrapur**

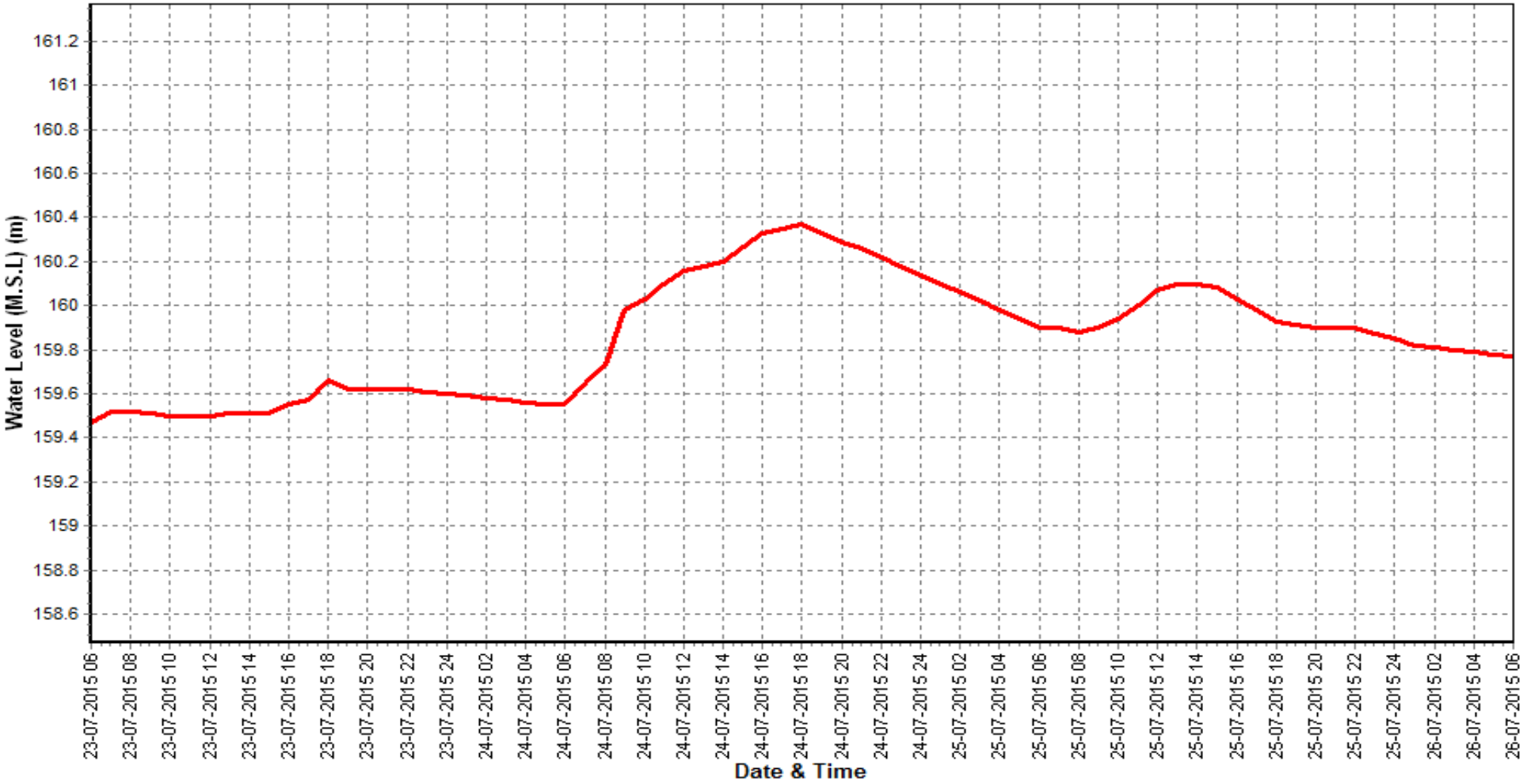


Time Span: 72 Hrs

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

Station Name : BHATPALLI (AGH10L0) **Division : Wainganga Div., Nagpur**

Local River : **Sub-Division : Wardha SD, Chandrapur**



Time Span: 72 Hrs

HISTORY SHEET

Water Year : 2015-2016

Site	**: SAKMUR**		**Code**	**: AGH30B6**	
State	: Maharashtra		District	Chandrapur	
Basin	: Godavari		Independent River	: Godavari	
Tributary	: Pranhita		Sub Tributary	: Wardha	
Sub-Sub Tributary	: -		Local River	: Wardha	
Division	: Wainganga Div., Nagpur		Sub-Division	: Wardha SD, Chandrapur	
Drainage Area	: 47500 Sq. Km.		Bank	: Left	
Latitude	: 19°33'41"		Longitude	: 79°36'48"	
Zero of Gauge (m)	: 145.71 (m.s.l) 143 (m.s.l) 148.5 (m.s.l)		23.06.1964 16.06.2003 21.01.2006	- 15.06.2003 - 20.01.2006	
	Opening Date		Closing Date		
Gauge	: 23.06.1964		**HFL During 2015-16**	**: 158.750**	
			Corres. Discharge	**: 14539.15 Cumecs(Estimated)**	
Discharge	: 01.02.1968		**Date & Time of**	**: 18.09.2015**	
			Occurance	**: 12.00 hrs.**	
Sediment	: 01.06.2014				
Water Quality	: 01.06.2014				

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

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1968-1969	4385	152.810	05.08.1968	0.000	146.120	04.05.1969
1969-1970	7213	154.405	08.09.1969	0.000	146.090	01.06.1969
1970-1971	15204	158.020	21.08.1970	1.396	146.215	03.06.1970
1971-1972	4950	152.933	25.06.1971	0.100	145.960	31.05.1972
1972-1973	5225	152.645	29.06.1972	0.000	145.905	19.06.1972
1973-1974	8941	155.390	11.07.1973	0.015	145.765	02.06.1973
1974-1975	4900	153.380	13.08.1974	0.200	145.760	17.05.1975
1975-1976	10691	156.170	06.09.1975	1.300	145.845	06.06.1975
1976-1977	13514	157.380	23.07.1976	1.400	145.995	08.06.1976
1977-1978	10000	155.990	04.09.1977	1.500	146.035	29.05.1978
1978-1979	13380	156.490	14.07.1978	3.820	146.100	14.05.1979
1979-1980	13170	157.540	07.08.1979	1.000	146.270	29.05.1980
1980-1981	9285	156.138	22.08.1980	1.000	146.265	03.06.1980
1981-1982	11254	157.295	11.08.1981	1.500	146.060	06.06.1981
1982-1983	2650	151.870	25.07.1982	1.800	145.970	31.05.1983
1983-1984	17350	158.310	14.08.1983	0.500	146.210	31.05.1984
1984-1985	2355	150.455	20.08.1984	0.200	146.100	20.05.1985
1985-1986	5260	153.060	28.06.1985	0.200	146.090	02.06.1985
1986-1987	21040	159.960	14.08.1986	1.000	146.160	01.06.1986
1987-1988	1094	149.535	22.08.1987	0.500	146.180	31.05.1988

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**
1988-1989	8904	156.205	04.10.1988	0.500	146.180	01.06.1988
1989-1990	7528	155.930	02.09.1989	2.828	146.475	05.06.1989
1990-1991	16000	158.330	18.08.1990	5.700	146.420	31.05.1991
1991-1992	7597	155.290	17.08.1991	1.170	146.130	26.05.1992
1992-1993	11761	156.560	23.08.1992	3.800	146.300	27.05.1993
1993-1994	5882	152.690	31.07.1993	0.221	146.130	31.05.1994
1994-1995	15027	157.920	14.07.1994	0.385	146.130	02.06.1994
1995-1996	13226	157.330	03.09.1995	3.500	146.260	14.05.1996
1996-1997	2931	151.670	29.08.1996	1.950	146.280	31.05.1997
1997-1998	5033	153.005	29.08.1997	1.240	146.220	06.06.1997
1998-1999	4072	152.230	04.07.1998	3.840	146.240	17.05.1999
1999-2000	11004	154.810	12.08.1999	2.550	146.310	05.05.2000
2000-2001	21518	157.860	21.07.2000	5.025	146.355	30.05.2001
2001-2002	16006	156.320	16.06.2001	0.000		27.01.2002
2002-2003	8123	157.160	26.08.2002	0.000		02.06.2002
2003-2004	8711	152.550	24.08.2003	1.303	146.250	12.06.2003
2004-2005	2510	150.410	07.08.2004	0.000	145.490	30.05.2005
2005-2006	9375	154.850	30.07.2005	3.278	145.410	20.06.2005
2006-2007	14335	161.950	08.08.2006	1.989	150.150	28.05.2007
2007-2008	6720	157.920	08.09.2007	1.251	150.060	30.05.2008
2008-2009	4662	157.470	06.08.2008	0.540	149.830	31.05.2009
2009-2010	754.8	152.865	04.09.2009	0.015	149.900	21.04.2010
2010-2011	10662	158.600	08.08.2010	0.000	149.740	20.06.2010
2011-2012	5500	156.190	03.09.2011	0.233	149.700	31.05.2012
2012-2013	16621	158.340	07.09.2012	0.000	150.070	31.05.2013
2013-2014	22144	161.300	03.08.2013	0.000	150.080	07.06.2013
2014-2015	7780	156.950	08.09.2014	1.151	150.000	15.05.2015

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

Stage-Discharge Data for the period 2015 - 2016

Station Name : SAKMUR (AGH30B6) **Division : Wainganga Div., Nagpur**

Local River : Wardha **Sub-Division : Wardha SD, Chandrapur**

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	150.700	29.44	151.510	170.8	151.080	119.9 #	151.450	262.1	151.330	204.6	150.710	52.80 *
2	150.750	33.24	151.450	153.8	151.010	104.4 *	151.690	346.7	151.270	168.7 *	150.700	54.94
3	150.650	27.69	151.460	127.2 *	150.950	92.05 #	151.650	327.1	151.200	187.3	150.720	57.10
4	150.600	23.88	151.430	121.7 *	150.940	90.09 #	151.600	304.6	151.140	134.2 *	150.740	59.64
5	150.550	18.73	151.400	116.4 *	150.980	98.09 #	151.380	173.0	151.095	152.1	150.740	59.67
6	150.520	17.00	151.380	112.9 *	153.550	1810	151.410	211.1 *	151.050	96.29	150.740	59.39
7	150.510	13.33 *	151.330	127.8	156.300	6604 *	151.380	173.1	151.010	87.17	150.740	58.94
8	150.510	16.26	151.100	61.93	153.990	2235 *	151.210	153.0	150.900	76.54	150.730	66.11 *
9	150.480	12.50	151.040	57.76	152.800	980.4 *	151.270	161.6	150.850	66.28	150.600	31.70
10	150.450	10.77	150.990	53.68	152.400	573.8	151.315	171.8	150.820	65.65	150.590	31.12
11	150.430	9.845	150.940	45.19	152.010	346.2	151.280	157.2	150.800	60.94 *	150.590	25.50 *
12	150.410	7.861	150.900	45.55 *	152.240	555.2	151.240	147.9	150.600	46.12	150.590	31.00
13	150.320	4.810	150.870	34.59	153.425	1664	151.220	154.9 *	150.400	31.90	150.600	30.56
14	150.320	4.705 *	150.850	32.73	154.830	3509 *	151.290	160.9	150.350	28.62	150.600	30.55
15	150.705	29.64	150.850	32.53	155.620	5028 *	151.130	138.8	150.295	22.88	150.580	23.44 *
16	150.985	50.18	150.900	35.73	153.720	1897 *	151.300	152.9	150.270	20.44	150.580	22.91
17	151.135	65.67	150.860	32.97	152.535	672.1	152.020	466.4 *	150.240	20.10	150.610	25.31
18	151.100	59.03	150.820	37.32 *	152.160	503.4	158.160	12288 *	150.200	19.03 *	150.580	18.22
19	151.450	142.6	150.850	40.30 *	152.100	453.3	157.140	8914 *	150.190	20.79	150.570	17.42
20	152.700	462.2 #	150.900	34.93	152.130	512.4	154.750	3373 *	150.180	20.02	150.560	16.70
21	152.560	413.5 *	150.820	31.03	152.140	539.4	153.545	1740	150.170	19.00	150.560	16.65
22	156.400	2787 *	150.780	29.09	152.360	682.0	152.855	1160	150.160	17.20 *	150.560	19.62 *
23	155.530	2058 *	150.770	28.17	152.020	466.4 *	152.290	637.5	150.170	18.86	150.540	17.33
24	153.550	994.7	151.620	245.4	151.850	394.2	152.120	498.6	150.190	18.57 *	150.540	16.84
25	152.300	330.5 #	151.600	267.4	151.690	362.1	151.950	431.0 *	150.220	19.99 *	150.540	16.21 *
26	152.050	259.7 #	152.100	509.0 *	151.490	266.6	151.790	417.7	150.220	23.54	150.530	16.09
27	151.980	241.4 #	152.150	473.7	151.400	225.5	151.700	317.7 *	150.420	23.56	150.520	14.96
28	151.870	214.1 *	151.820	337.7	151.350	225.2	151.590	274.2 #	150.430	24.13	150.540	14.65
29	151.600	154.3 #	151.450	223.9	151.320	220.5	151.470	267.9	150.450	26.32	150.530	14.64 *
30	151.435	141.0	151.240	160.3 #	151.290	174.4 *	151.390	246.5	150.490	30.20	150.560	20.10
31			151.150	136.7 #	151.340	214.4			150.700	54.06		
Daily Mean												
Ten-Dai	150.572	20.28	151.309	110.4	152.400	1271	151.436	228.4	151.066	123.9	150.701	53.14
Ten-Dai	150.955	83.65	150.874	37.18	153.077	1514	152.953	2595	150.352	29.08	150.586	24.16
Ten-Da	152.927	759.4	151.409	222.0	151.659	342.8	152.070	599.1	150.329	25.04	150.542	16.71
Monthly												
Min.	150.320	4.705	150.770	28.17	150.940	90.09	151.130	138.8	150.160	17.20	150.520	14.64
Max.	156.400	2787	152.150	509.0	156.300	6604	158.160	12288	151.330	204.6	150.740	66.11
Mean	151.485	287.8	151.204	126.4	152.355	1020	152.153	1141	150.575	58.23	150.610	31.34

Annual Runoff in MCM = 7184 Annual Runoff in mm = 151

Peak Observed Discharge = 1810 cumecs on 06/08/2015 Corres. Water Level :153.55 m

Lowest Observed Discharge = 0.000 cumecs on 03/04/2016 Corres. Water Level :150.16 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 : SAKMUR (AGH30B6) **Division : Wainganga Div., Nagpur**

Local River : Wardha **Sub-Division : Wardha SD, Chandrapur**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	150.680	21.82	150.660	22.80	150.660	23.76	150.550	14.26	150.180	3.362	149.720	0.000
2	150.680	21.95	150.660	22.69	150.650	22.68	150.560	14.68	150.180	3.231	149.720	0.000
3	150.670	20.31	150.650	22.30 *	150.630	20.57	150.530	12.02	150.160	0.000	149.710	0.000
4	150.640	18.09	150.640	21.05	150.620	19.70	150.520	11.19	150.150	0.000	149.630	0.000
5	150.620	16.63	150.530	15.84	150.590	18.83	150.500	10.77	150.120	0.000	149.570	0.000
6	150.580	17.47 *	150.480	13.35	150.580	17.70	150.460	10.96 *	150.110	0.000	149.570	0.000
7	150.550	14.07	150.460	10.75	150.570	16.83 *	150.400	8.790 #	150.090	0.000	149.585	0.000
8	150.540	13.31	150.450	10.30	150.540	14.39	150.380	7.874	150.080	0.000	149.585	0.000
9	150.540	13.18	150.440	9.722	150.520	12.53	150.370	7.997	150.040	0.000	149.585	0.000
10	150.560	14.48	150.430	9.379 *	150.470	11.85	150.360	7.472	150.030	0.000	149.585	0.000
11	150.570	15.98	150.410	8.262	150.450	10.56	150.340	5.951	150.020	0.000	149.590	0.000
12	150.560	15.52	150.420	10.45	150.430	8.947	150.330	5.617	149.950	0.000	149.580	0.000
13	150.580	17.47 *	150.460	12.20	150.410	8.075	150.330	6.612 *	149.940	0.000	149.580	0.000
14	150.610	19.83	150.440	8.822	150.400	8.790 *	150.350	6.456	149.920	0.000	149.590	0.000
15	150.630	21.78	150.470	11.76	150.380	10.02	150.370	8.212	149.870	0.000	149.580	0.000
16	150.660	24.70	150.530	15.96	150.390	8.457 #	150.370	8.193	149.850	0.000	149.570	0.000
17	150.670	25.49	150.530	14.44 *	150.430	9.839 #	150.350	7.137	149.840	0.000	149.560	0.000
18	150.680	26.64	150.520	14.34	150.460	10.96 #	150.340	6.981	149.800	0.000	149.560	0.000
19	150.700	28.48	150.570	18.83	150.480	11.75 #	150.360	7.403	149.800	0.000	149.570	0.000
20	150.720	27.86 *	150.620	22.21	150.550	14.76 #	150.350	7.197 *	149.790	0.000	149.560	0.000
21	150.750	29.60	150.660	24.17	150.570	15.70 *	150.350	8.302	149.790	0.000	149.570	0.000
22	150.780	33.01	150.680	27.27	150.650	23.82	150.330	5.927	149.780	0.000	149.570	0.000
23	150.790	33.69	150.720	30.56	150.660	25.35	150.300	4.762	149.780	0.000	149.560	0.000
24	150.780	33.23 *	150.730	28.72 *	150.660	24.86	150.280	5.277 *	149.760	0.000	149.560	0.000
25	150.770	32.30 *	150.740	31.76	150.600	18.16	150.260	4.793 *	149.750	0.000	149.560	0.000
26	150.760	31.16	150.740	29.59 *	150.560	14.97	150.240	3.741	149.750	0.000	149.570	0.000
27	150.740	29.59 *	150.700	28.19	150.540	13.86	150.180	3.125 *	149.750	0.000	149.570	0.000
28	150.730	28.38	150.720	29.58	150.550	14.76 *	150.200	3.988	149.730	0.000	149.580	0.000
29	150.720	27.51	150.710	28.90	150.520	11.75	150.200	3.950	149.730	0.000	149.580	0.000
30	150.700	24.38	150.690	27.57			150.200	3.877	149.720	0.000	149.590	0.000
31	150.700	24.43	150.670	23.82 *			150.190	3.508			149.720	0.000
-Daily M												
Ten-Dai	150.606	17.13	150.540	15.82	150.583	17.88	150.463	10.60	150.114	0.659	149.626	0.000
Ten-Dai	150.638	22.37	150.497	13.73	150.438	10.22	150.349	6.976	149.878	0.000	149.574	0.000
Ten-Da	150.747	29.75	150.705	28.19	150.590	18.14	150.248	4.659	149.754	0.000	149.585	0.000
Monthly												
Min.	150.540	13.18	150.410	8.262	150.380	8.075	150.180	3.125	149.720	0.000	149.560	0.000
Max.	150.790	33.69	150.740	31.76	150.660	25.35	150.560	14.68	150.180	3.362	149.720	0.000
Mean	150.666	23.3	150.585	19.54	150.535	15.32	150.350	7.324	149.915	0.22	149.595	0

Peak Computed Discharge = 12288 cumecs on 18/09/2015 Corres. Water Level :158.16 m

Lowest Computed Discharge = 3.125 cumecs on 27/03/2016 Corres. Water Level :150.18 m

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

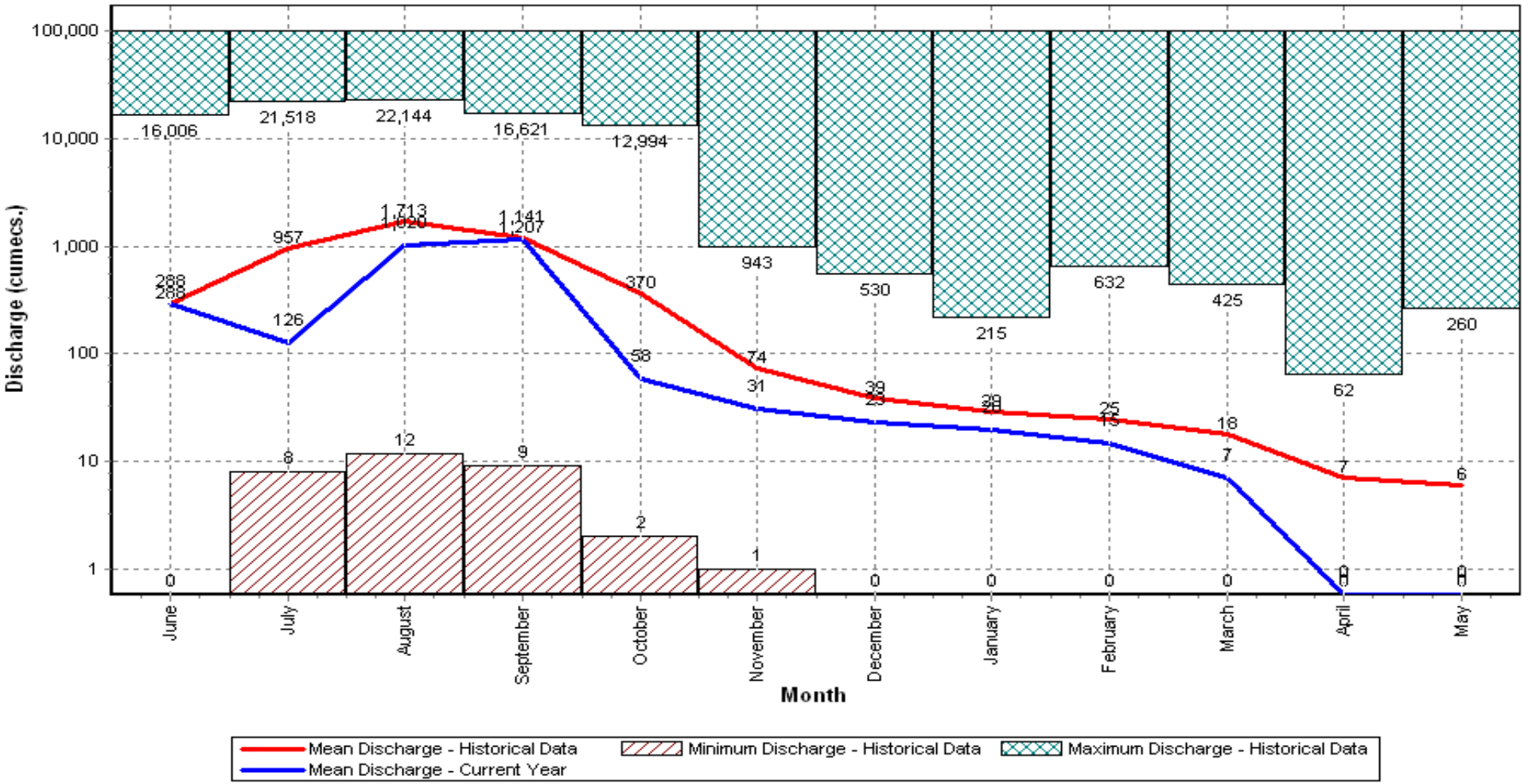
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016

Station Name : SAKMUR (AGH30B6) **Data considered : 1968-2016** **Division : Wainganga Div., Nagpur**

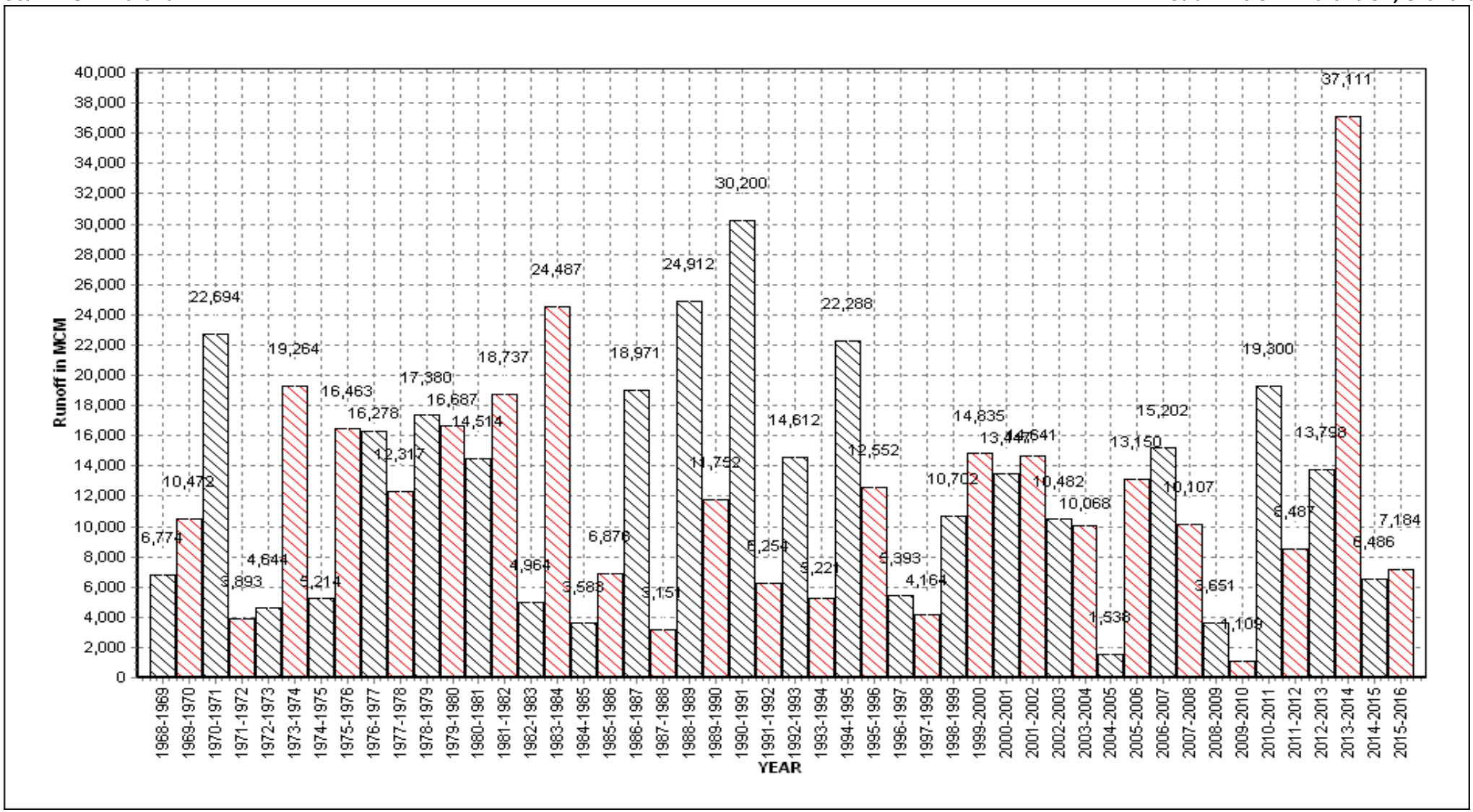
Local River : Wardha **Sub-Division : Wardha SD, Chandrapur**



Annual Runoff Values for the period: 1968 - 2016

Station Name : SAKMUR (AGH30B6) **Division : Wainganga Div., Nagpur**

Local River : Wardha **Sub-Division : Wardha SD, Chandrapur**

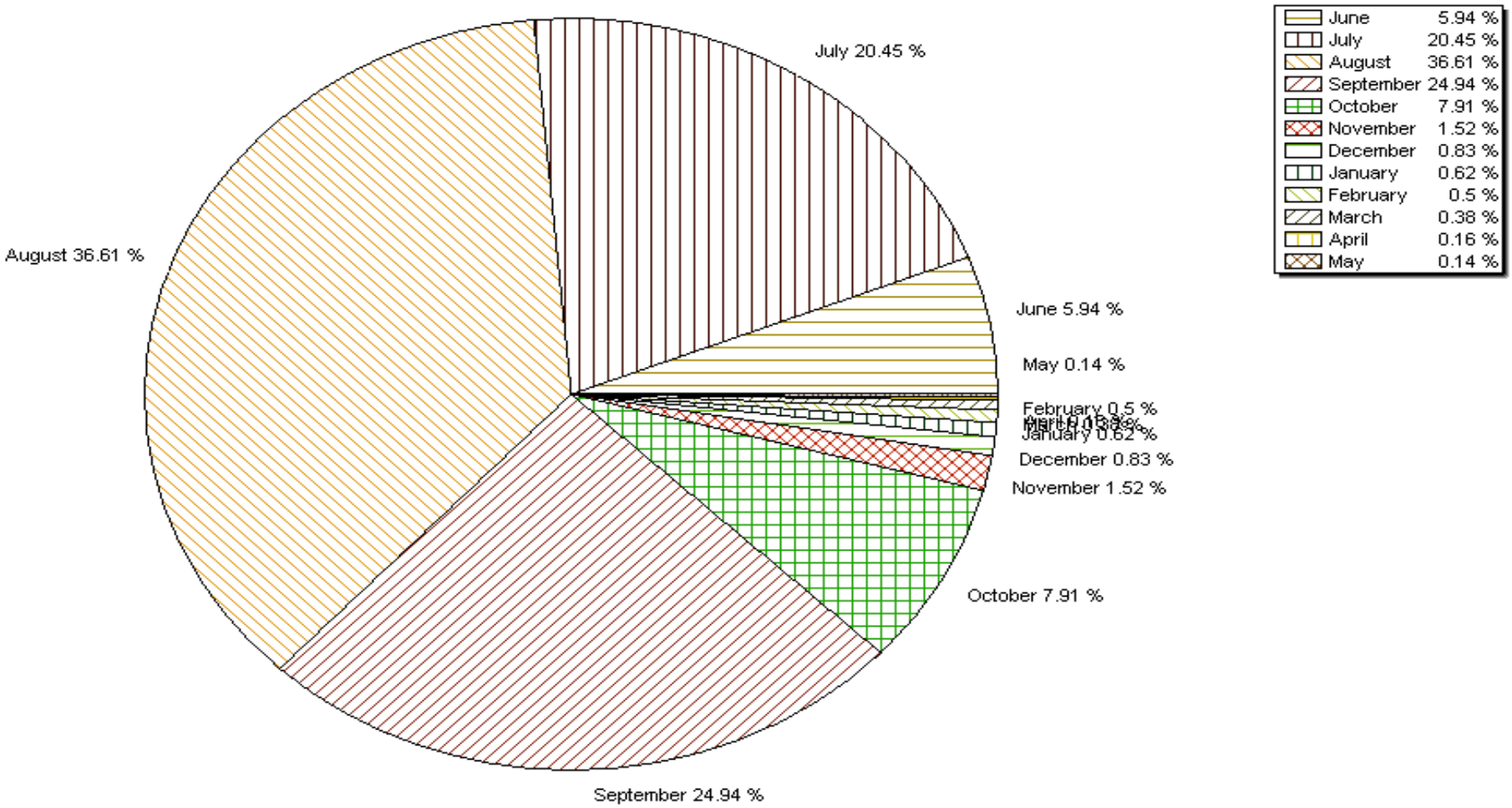


Note: Missing values have not been considered while arriving at Annual Runoff

Monthly Average Runoff based on period : 1968-2015

Station Name : SAKMUR (AGH30B6) **Division : Wainganga Div., Nagpur**

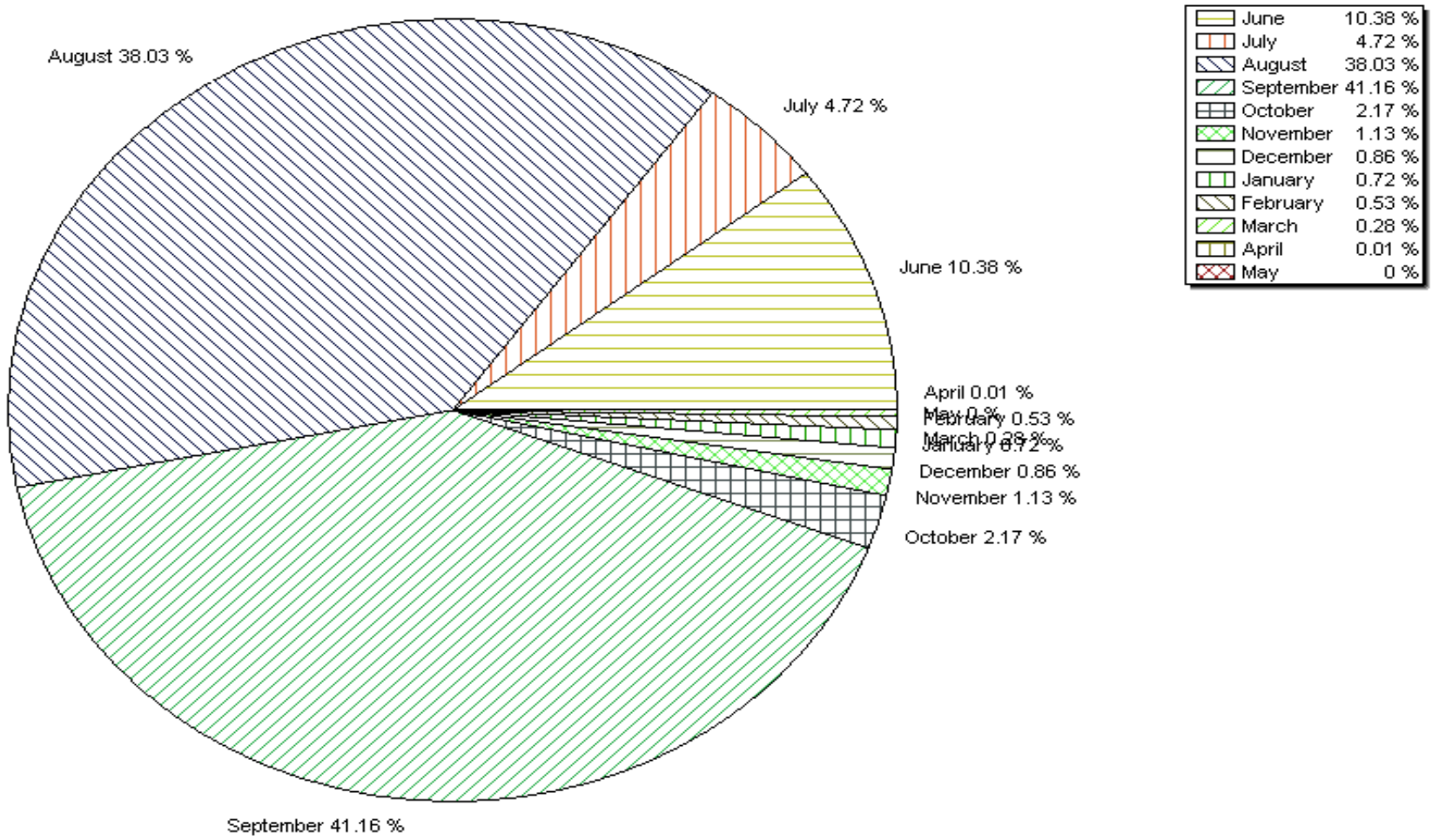
Local River : Wardha **Sub-Division : Wardha SD, Chandrapur**



Monthly Runoff for the Year : 2015-2016

Station Name : SAKMUR (AGH30B6) **Division : Wainganga Div., Nagpur**

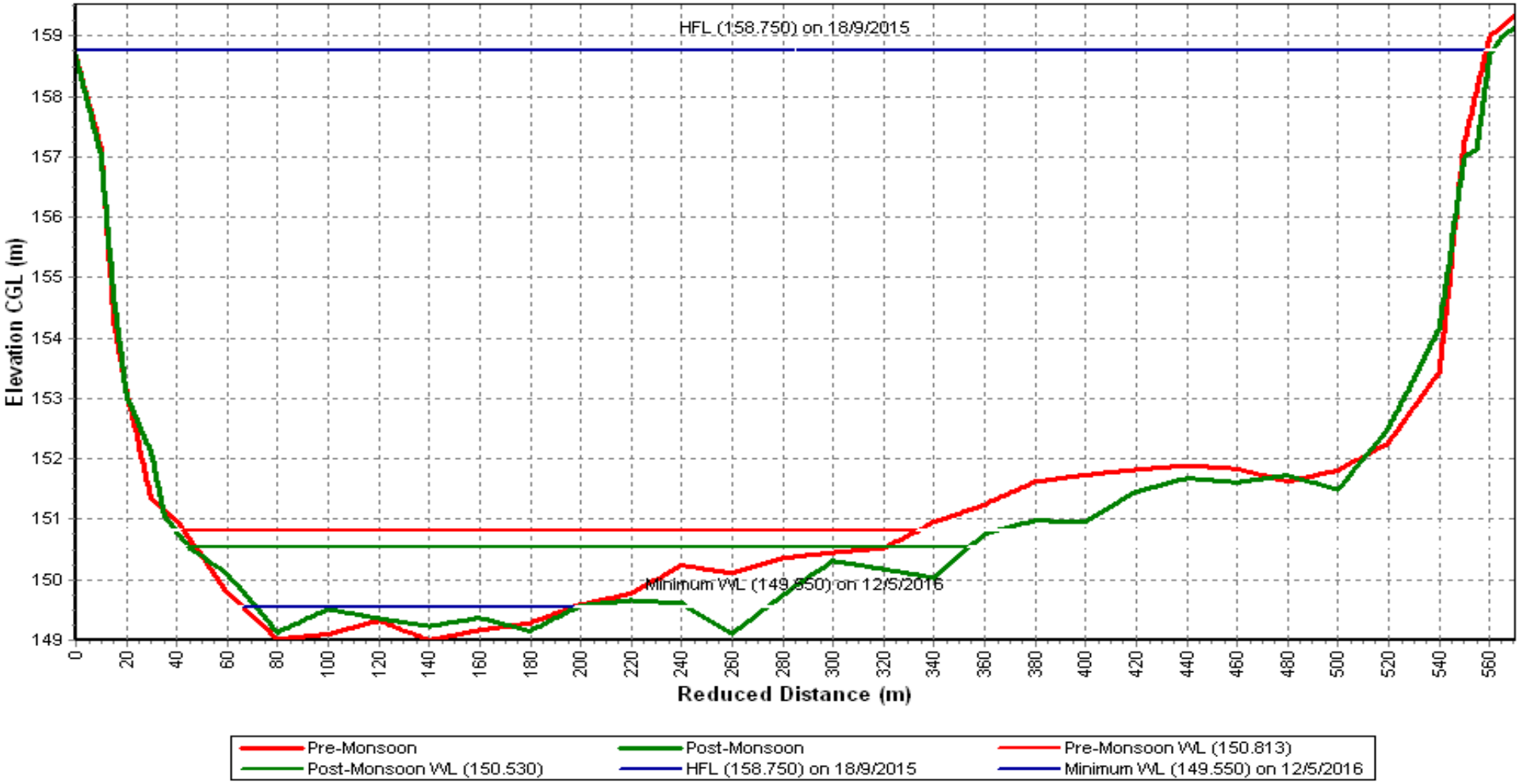
Local River : Wardha **Sub-Division : Wardha SD, Chandrapur**



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

Station Name : SAKMUR (AGH30B6) **Division : Wainganga Div., Nagpur**

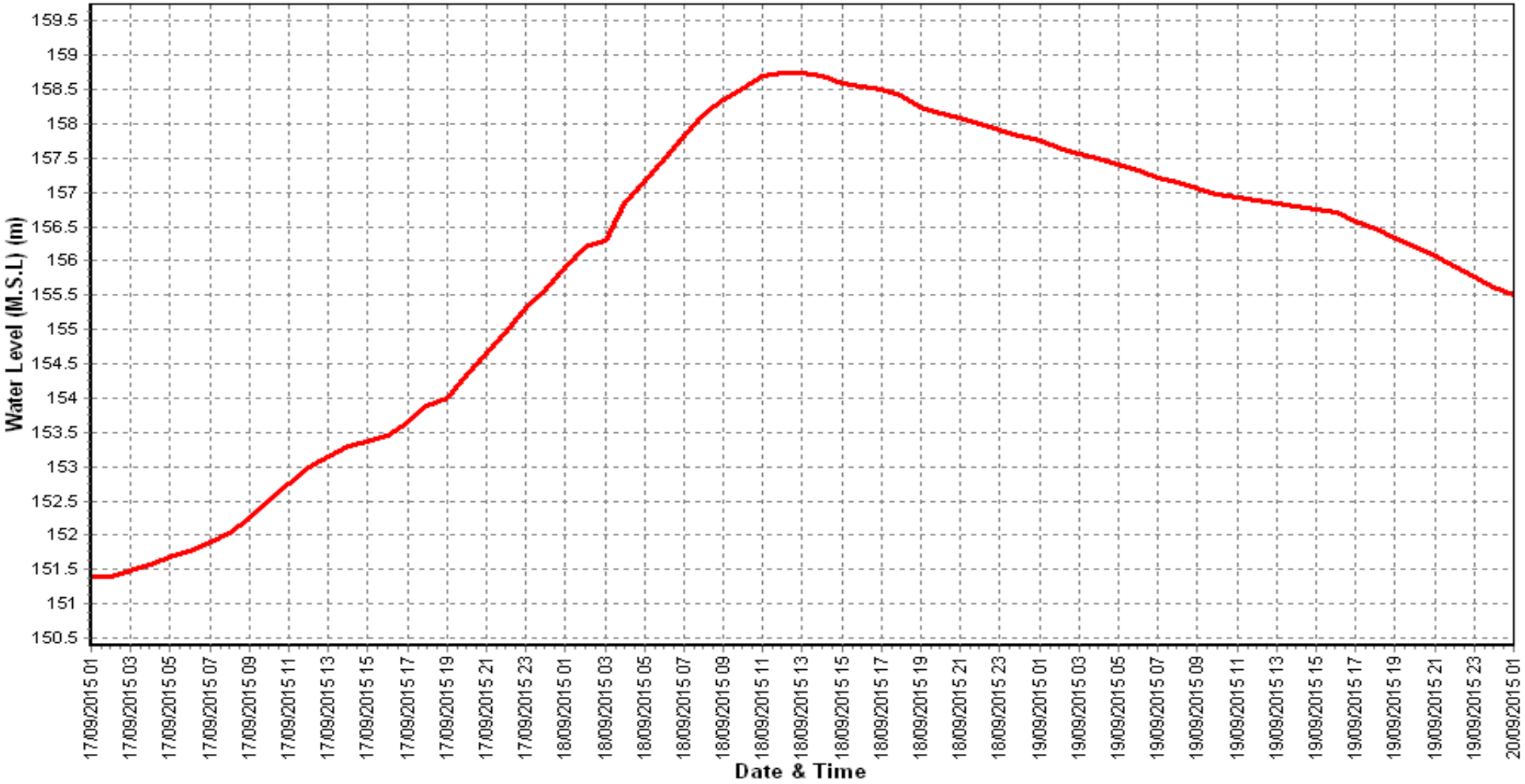
Local River : Wardha **Sub-Division : Wardha SD, Chandrapur**



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

Station Name : SAKMUR (AGH30B6) **Division : Wainganga Div., Nagpur**

Local River : Wardha **Sub-Division : Wardha SD, Chandrapur**

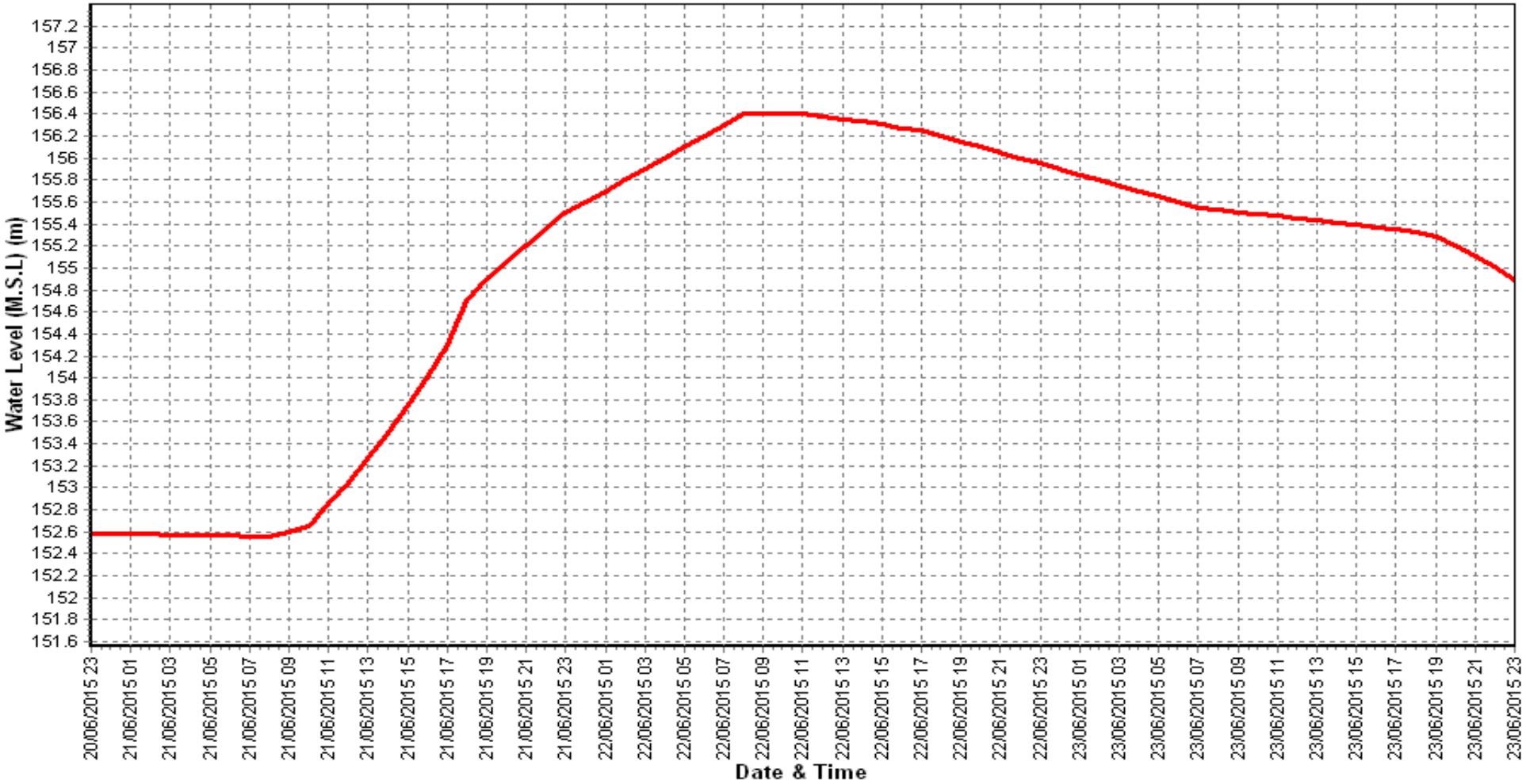


Time Span: 72 Hrs

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

Station Name : SAKMUR (AGH30B6) **Division : Wainganga Div., Nagpur**

Local River : Wardha **Sub-Division : Wardha SD, Chandrapur**

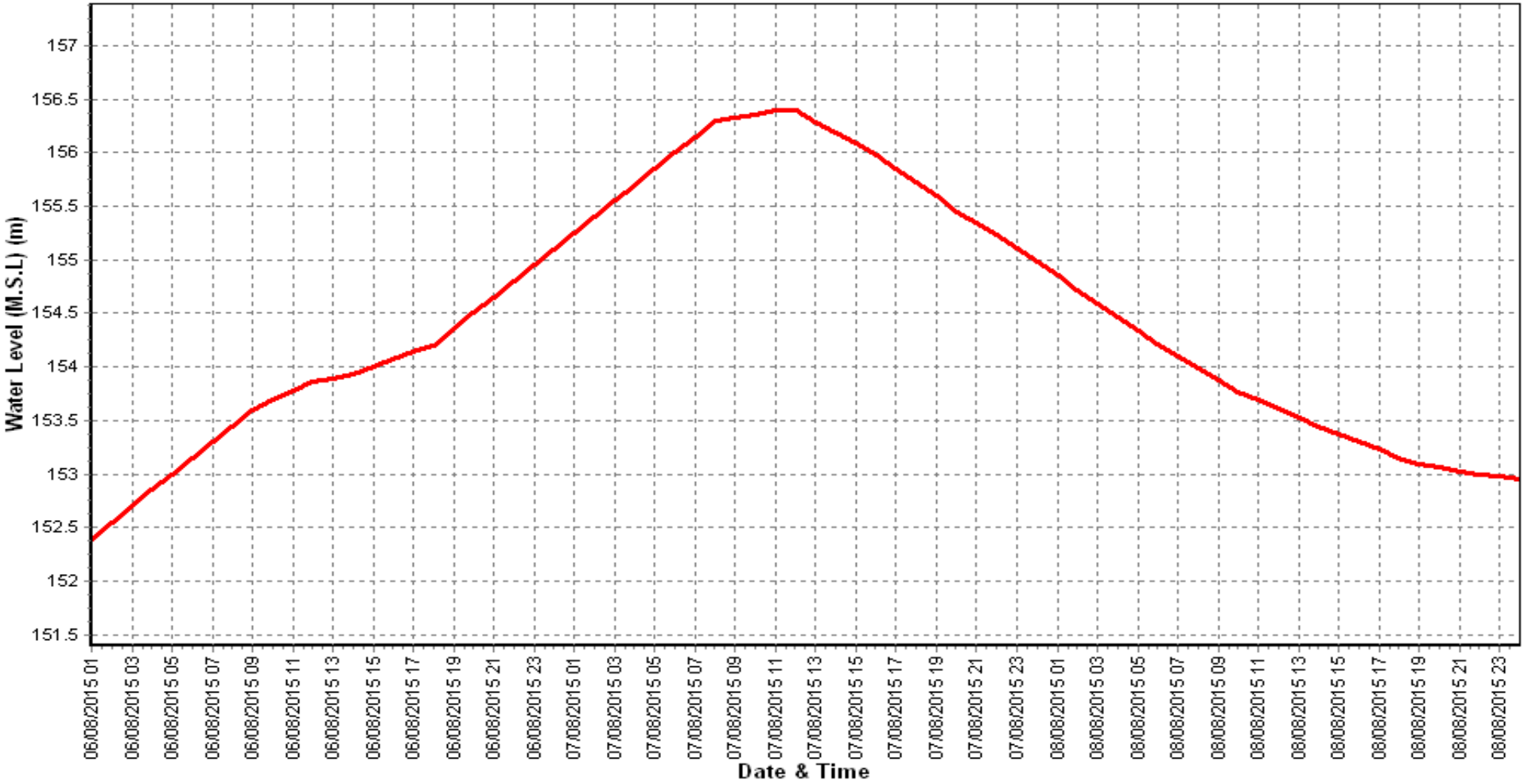


Time Span: 72 Hrs

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

Station Name : SAKMUR (AGH30B6) **Division : Wainganga Div., Nagpur**

Local River : Wardha **Sub-Division : Wardha SD, Chandrapur**



Time Span: 72 Hrs

HISTORY SHEET

			Water Year	:	**2015-2016**
Site	:	**BAMNI**	**Code**	:	**AGH30E2**
State	:	Maharashtra	District		Chandrapur
Basin	:	Godavari	Independent River	:	Godavari
Tributary	:	Pranhita	Sub Tributary	:	Wardha
Sub-Sub Tributary	:		Local River	:	Wardha
Division	:	Wainganga Div., Nagpur	Sub-Division	:	Wardha Sub-division,Chandrapur
Drainage Area	:	46020 Sq. Km.	Bank	:	Left
Latitude	:	19°48'53"	Longitude	:	79°22'46"
Zero of Gauge (m)	:	157.38 (m.s.l) 157.97 (m.s.l)	12.01.1964 01.06.1991	-	31.05.1991
		Opening Date	Closing Date		
Gauge	:	12.01.1964	**HFL During 2015-16**	:	**170.970**
			Corres. Discharge	:	**10173.44 Cumecs (Estimated)**
Discharge	:	16.10.1965	**Date & Time of**	:	**18.09.2015**
			Occurance	:	**08.00 hrs.**
Sediment	:	13.12.1965			
Water Quality	:	03.06.1966			

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

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1966-1967	10900	172.000	06.09.1966	0.800	157.640	13.06.1966
1967-1968	11070	170.130	26.07.1967	0.600	157.525	12.06.1967
1968-1969	4746	167.630	05.08.1968	0.900	157.650	11.06.1968
1969-1970	8485	169.750	21.09.1969	0.536	157.965	21.05.1970
1970-1971	12120	173.680	21.08.1970	0.776	157.765	02.06.1970
1971-1972	3940	166.630	24.06.1971	0.000	157.560	31.05.1972
1972-1973	5141	167.010	29.06.1972	0.003	157.535	17.06.1972
1973-1974	9610	170.290	27.08.1973	0.180	157.660	08.06.1973
1974-1975	5141	167.725	13.08.1974	0.540	157.990	27.05.1975
1975-1976	8800	171.220	06.09.1975	0.800	157.995	01.06.1975
1976-1977	13600	172.610	04.09.1976	1.160	158.220	03.06.1976
1977-1978	9841	170.588	03.09.1977	1.500	158.085	28.05.1978
1978-1979	15000	171.510	31.08.1978	3.200	158.210	13.05.1979
1979-1980	15000	172.580	07.08.1979	0.700	158.040	29.05.1980
1980-1981	10143	170.510	23.08.1980	1.000	158.055	02.06.1980
1981-1982	14600	172.805	10.08.1981	2.300	158.120	16.06.1981
1982-1983	3641	166.185	21.07.1982	1.070	158.625	13.05.1983
1983-1984	15600	173.570	14.08.1983	0.700	158.565	13.06.1983
1984-1985	2350	164.000	20.08.1984	0.300	158.170	19.05.1985
1985-1986	4986	167.400	14.08.1985	0.700	158.505	26.04.1986
1986-1987	21400	176.320	15.08.1986	1.600	158.440	10.06.1986

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**
1987-1988	990.0	161.775	26.08.1987	1.600	158.590	27.05.1988
1988-1989	11160	171.340	04.10.1988	1.900	158.005	17.05.1989
1989-1990	6078	170.900	20.08.1989	4.200	158.055	01.06.1989
1990-1991	10400	173.780	18.08.1990	5.580	158.140	26.05.1991
1991-1992	8205	171.140	17.08.1991	0.880	158.410	17.05.1992
1992-1993	11000	172.290	22.08.1992	0.850	158.400	08.06.1992
1993-1994	6602	168.920	31.07.1993	0.800	158.555	26.05.1994
1994-1995	14074	174.110	14.07.1994	1.019	158.570	06.06.1994
1995-1996	14096	173.270	21.10.1995	3.091	158.765	21.05.1996
1996-1997	3200	164.860	28.08.1996	0.930	158.770	02.06.1996
1997-1998	3772	167.000	29.08.1997	0.980	158.710	10.06.1997
1998-1999	3438	165.585	11.08.1998	2.741	158.840	13.05.1999
1999-2000	8175	170.392	11.08.1999	3.788	158.740	05.05.2000
2000-2001	12740	173.960	20.07.2000	1.498	158.675	28.05.2001
2001-2002	10035	171.920	16.06.2001	0.830	158.550	24.05.2002
2002-2003	11879	174.050	27.06.2002	0.687	158.820	30.05.2003
2003-2004	7539	169.700	24.08.2003	0.959	158.850	11.06.2003
2004-2005	2512	164.155	06.08.2004	0.242	158.770	29.05.2005
2005-2006	8604	173.120	29.07.2005	0.289	158.770	08.06.2005
2006-2007	13876	175.890	08.08.2006	2.005	158.860	30.05.2007
2007-2008	7867	171.110	10.08.2007	1.732	158.490	30.05.2008
2008-2009	4688	168.100	06.08.2008	0.264	158.210	30.05.2009
2009-2010	783.7	161.380	04.09.2009	0.078	158.170	18.04.2010
2010-2011	8747	172.250	08.08.2010	0.000	158.160	21.06.2010
2011-2012	5891	168.440	02.09.2011	0.000	158.770	22.05.2012
2012-2013	7650	170.995	06.09.2012	0.000	158.860	06.05.2013
2013-2014	12641	175.680	03.08.2013	0.000	158.750	02.06.2013
2014-2015	8758	169.130	08.09.2014	1.091	158.510	13.05.2015

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

Stage-Discharge Data for the period 2015 - 2016

Station Name : BAMNI (AGH30E2) **Division : Wainganga Div., Nagpur**

Local River : Wardha **Sub-Division : Wardha Sub-division,Chandrapur**

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	158.700	8.585	159.340	108.3	159.220	59.01	160.210	244.1	159.385	114.1	158.830	28.00 *
2	158.690	8.131	159.340	110.4	159.110	55.68 *	159.680	157.0	159.340	115.7 *	158.860	31.81
3	158.670	6.639 #	159.440	105.6 #	159.020	45.63	159.660	138.3	159.210	89.27	158.870	34.76
4	158.680	7.850	159.500	116.3 #	158.985	41.28	159.450	96.59	159.290	103.9 *	158.870	33.86
5	158.780	12.49	159.370	93.74 *	158.960	38.57	159.615	150.0	159.205	86.60	158.870	33.68
6	158.705	8.256	159.210	53.36	164.390	2792	159.570	129.4 *	159.170	76.20	158.860	32.20
7	158.680	7.105 *	159.110	49.22	166.120	3555	159.295	100.6	159.120	64.49	158.850	30.45
8	158.620	3.863	158.990	43.16	161.885	1118	159.370	93.74 #	159.070	57.73	158.850	30.16 *
9	158.610	3.935	158.960	41.29	161.270	645.0 *	159.450	107.3 #	159.020	51.69	158.840	28.66
10	158.590	3.551	158.920	37.70	160.530	374.6 #	159.370	93.74 #	158.970	44.83	158.830	27.63
11	158.590	3.284	158.940	38.14	159.910	240.0	159.400	98.73 #	158.960	43.81 *	158.830	28.00 *
12	158.570	2.677 #	158.920	33.88 *	160.515	402.2	159.305	102.2	158.950	40.90	158.830	27.01
13	158.650	5.658	158.920	30.54	164.295	2643	159.230	72.08 *	158.900	39.66	158.830	26.73
14	158.670	6.639 *	158.910	28.95	165.330	3378	159.170	65.26	158.865	32.81	158.830	27.08
15	159.090	33.09	158.930	31.92	166.030	3982 *	159.460	125.2	158.850	32.02	158.820	26.95 *
16	158.970	24.86	158.880	31.81	161.800	881.1 *	159.225	75.78	158.830	27.91	158.810	25.17
17	159.230	72.08 *	158.870	30.83	160.585	359.2	162.620	1315 *	158.810	25.91	158.810	27.55
18	159.600	135.2 *	158.860	28.07 *	160.275	282.5	170.970	10220 *	158.800	24.93 *	158.810	26.12
19	161.110	580.6 *	158.850	27.15 *	160.220	338.3	168.265	5555	158.790	22.35	158.810	26.44
20	160.140	260.3 *	158.840	25.92	160.475	384.2	164.370	2512 *	158.820	29.38	158.780	23.05
21	160.700	430.5 *	158.820	24.43	160.650	459.5	162.290	1130 *	158.840	29.38	158.770	22.02
22	165.920	3875 *	158.780	18.02	160.445	391.5	161.110	580.6 *	158.830	28.00 *	158.770	22.06 *
23	163.500	1871 *	158.800	26.48	160.170	268.4 *	160.530	374.6 *	158.840	29.04	158.770	21.11
24	161.100	576.7 *	159.845	141.0	159.945	208.6	160.210	279.4 *	158.840	29.07 *	158.760	20.31
25	160.140	260.3 *	159.695	124.4	159.780	166.6	160.070	241.9 *	158.850	30.16 *	158.760	21.15 *
26	160.160	327.3	160.190	273.9 *	159.590	109.4	159.920	204.7 *	158.850	30.02	158.760	19.35
27	159.950	211.9 #	160.170	204.1	159.540	123.7 #	159.760	168.2 *	158.860	30.54	158.790	24.30
28	159.620	139.1 *	159.600	135.2 #	159.460	109.1 #	159.630	141.1 *	158.860	31.30	158.810	25.26
29	159.440	119.7	159.385	73.10	159.530	98.69	159.600	135.2 *	158.840	29.86	158.820	26.95 *
30	159.320	93.94	159.320	72.15	159.570	129.4 *	159.470	136.6	158.840	29.98	158.820	26.08
31			159.270	68.32	159.540	111.1			158.840	29.73		
-Daily Mean												
Ten-Dai	158.673	7.041	159.218	75.90	160.949	872.6	159.567	131.1	159.178	80.45	158.853	31.12
Ten-Dai	159.262	112.4	158.892	30.72	161.943	1289	162.202	2014	158.858	31.97	158.816	26.41
Ten-Da	160.985	790.5	159.443	105.6	159.838	197.8	160.259	339.2	158.845	29.73	158.783	22.86
Monthly												
Min.	158.570	2.677	158.780	18.02	158.960	38.57	159.170	65.26	158.790	22.35	158.760	19.35
Max.	165.920	3875	160.190	273.9	166.120	3982	170.970	10220	159.385	115.7	158.870	34.76
Mean	159.640	303.3	159.193	71.85	160.876	767.5	160.676	828.1	158.956	46.82	158.817	26.8

Annual Runoff in MCM = 5563 Annual Runoff in mm = 121

Peak Observed Discharge = 5555 cumecs on 19-09-2015 Corres. Water Level :168.265 m

Lowest Observed Discharge = 0.906 cumecs on 16-05-2016 Corres. Water Level :158.47 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 : BAMNI (AGH30E2) **Division : Wainganga Div., Nagpur**

Local River : Wardha **Sub-Division : Wardha Sub-division,Chandrapur**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	158.800	22.31	158.730	18.94	158.810	21.49	158.830	14.00 #	158.520	2.213 #	158.480	1.116 *
2	158.770	19.61	158.720	18.55	158.800	20.58	158.810	12.86 #	158.540	2.998	158.490	1.065
3	158.760	19.89	158.690	13.32 *	158.790	19.36	158.770	12.47	158.520	2.213 *	158.490	1.397
4	158.750	19.21	158.660	11.61	158.780	18.95	158.730	10.95	158.500	1.842 #	158.490	1.378
5	158.730	17.95	158.640	10.59	158.760	18.20	158.730	10.14	158.500	1.842 #	158.500	1.440
6	158.730	16.36 *	158.630	9.179	158.810	19.95	158.720	8.403 *	158.500	1.842 #	158.470	0.990 #
7	158.730	16.64	158.640	9.791	158.790	11.77 *	158.720	8.823	158.500	1.842 #	158.470	0.990 #
8	158.760	18.83	158.640	9.457	158.770	12.25	158.720	8.714	158.490	1.672 *	158.480	1.116 *
9	158.760	19.51	158.650	9.668	158.750	11.31	158.720	8.448	158.480	1.430	158.490	1.349
10	158.750	18.52	158.670	11.95 *	158.730	8.861	158.710	6.899	158.470	1.360 *	158.490	1.375
11	158.760	18.50	158.690	10.99	158.720	8.427	158.710	6.864	158.460	1.388	158.490	1.338
12	158.750	18.15	158.680	10.40	158.740	9.605	158.720	6.730	158.500	1.577	158.500	1.319
13	158.760	18.88 *	158.730	17.78	158.730	9.697	158.730	8.842 *	158.490	1.479	158.490	1.273
14	158.800	23.98	158.730	17.19	158.760	10.24 *	158.740	7.301	158.490	1.457	158.490	1.237
15	158.820	24.54	158.730	16.39	158.800	12.31 #	158.740	7.394	158.480	1.406	158.480	1.116 *
16	158.820	23.97	158.720	15.09	158.810	12.86 #	158.750	7.589	158.480	1.446	158.470	0.906
17	158.820	24.11	158.750	18.01 *	158.810	12.86 #	158.750	7.867	158.480	1.511 *	158.480	1.009
18	158.850	26.83	158.790	21.87	158.850	15.21 #	158.760	8.552	158.470	1.413	158.480	1.005
19	158.860	27.96	158.810	23.96	158.940	26.07	158.750	7.873	158.470	1.360 *	158.480	1.000
20	158.870	30.04 *	158.840	27.18	158.970	29.14	158.730	8.842 *	158.470	1.378	158.470	0.970
21	158.890	32.80	158.850	27.28	158.930	20.63 *	158.690	6.672	158.480	1.492	158.470	0.990 *
22	158.900	33.15	158.870	29.60	158.910	23.16	158.690	6.473	158.480	1.472	158.470	0.990 *
23	158.880	30.69	158.870	29.16	158.910	23.17	158.660	5.934	158.480	1.456	158.470	0.942
24	158.870	30.04 *	158.860	28.90 *	158.860	15.83 #	158.650	5.750 *	158.470	1.360 *	158.460	0.948
25	158.840	26.69 *	158.870	29.33	158.840	14.60 #	158.650	5.700 *	158.460	1.313	158.460	0.941
26	158.830	25.83	158.860	28.90 *	158.850	15.21 #	158.650	5.711	158.450	1.345	158.460	0.916
27	158.820	24.59 *	158.850	27.85	158.840	14.60 #	158.610	4.412 *	158.450	1.284	158.480	1.149
28	158.810	23.79	158.830	26.80	158.840	14.60 *	158.580	3.402	158.450	1.261	158.970	24.89
29	158.780	23.27	158.820	26.05	158.830	14.00 #	158.580	3.385	158.470	1.375	158.890	16.04 *
30	158.750	20.66	158.810	23.94			158.570	3.267	158.470	1.346	158.880	14.72
31	158.740	19.91	158.810	23.57 *			158.540	2.949			158.870	13.20
-Daily M												
Ten-Dai	158.754	18.88	158.667	12.31	158.779	16.27	158.746	10.17	158.502	1.925	158.485	1.222
Ten-Dai	158.811	23.70	158.747	17.88	158.813	14.64	158.738	7.786	158.479	1.441	158.483	1.117
Ten-Da	158.828	26.49	158.845	27.40	158.868	17.31	158.625	4.878	158.466	1.370	158.625	6.885
Monthly												
Min.	158.730	16.36	158.630	9.179	158.720	8.427	158.540	2.949	158.450	1.261	158.460	0.906
Max.	158.900	33.15	158.870	29.60	158.970	29.14	158.830	14.00	158.540	2.998	158.970	24.89
Mean	158.799	23.13	158.756	19.46	158.818	16.03	158.700	7.523	158.482	1.579	158.534	3.197

Peak Computed Discharge = 10220 cumecs on 18-09-2015 Corres. Water Level :170.97 m

Lowest Computed Discharge = 0.990 cumecs on 21-05-2016 Corres. Water Level :158.47 m

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

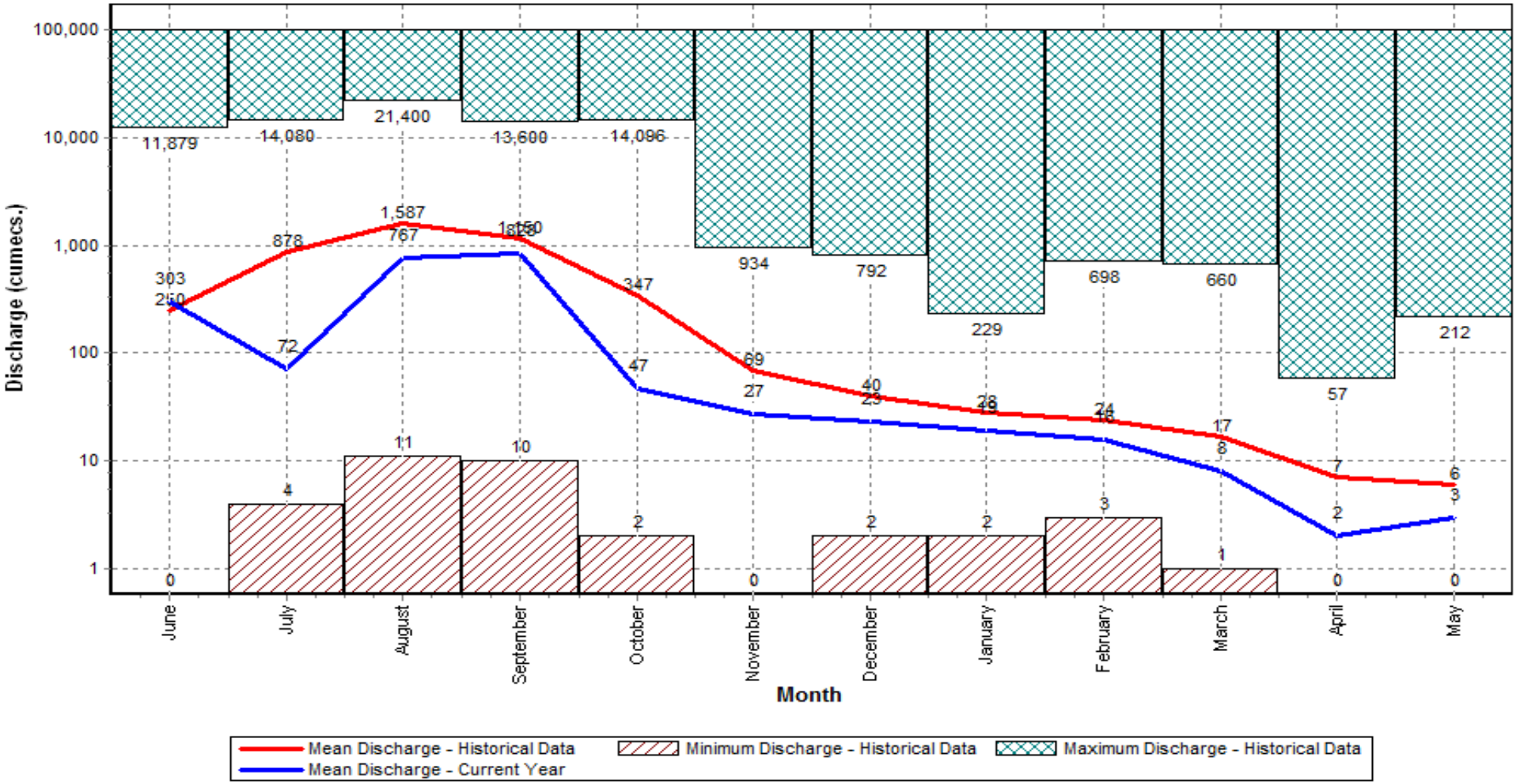
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016

Station Name : BAMNI (AGH30E2) **Data considered : 1966-2016** **Division : Wainganga Div., Nagpur**

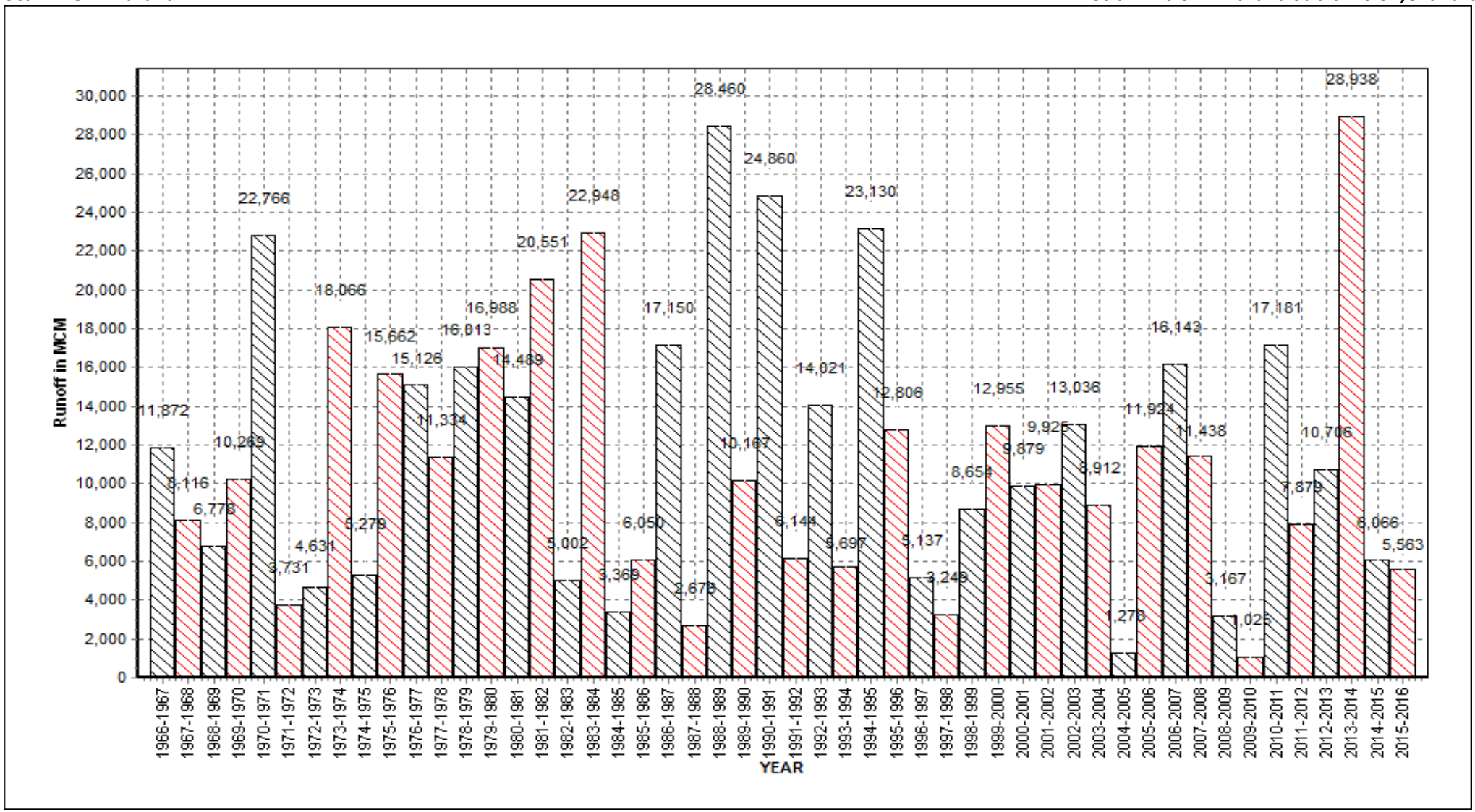
Local River : Wardha **Sub-Division : Wardha Sub-division,Chandrapur**



Annual Runoff Values for the period: 1966 - 2016

Station Name : BAMNI (AGH30E2) **Division : Wainganga Div., Nagpur**

Local River : Wardha **Sub-Division : Wardha Sub-division,Chandrapur**



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

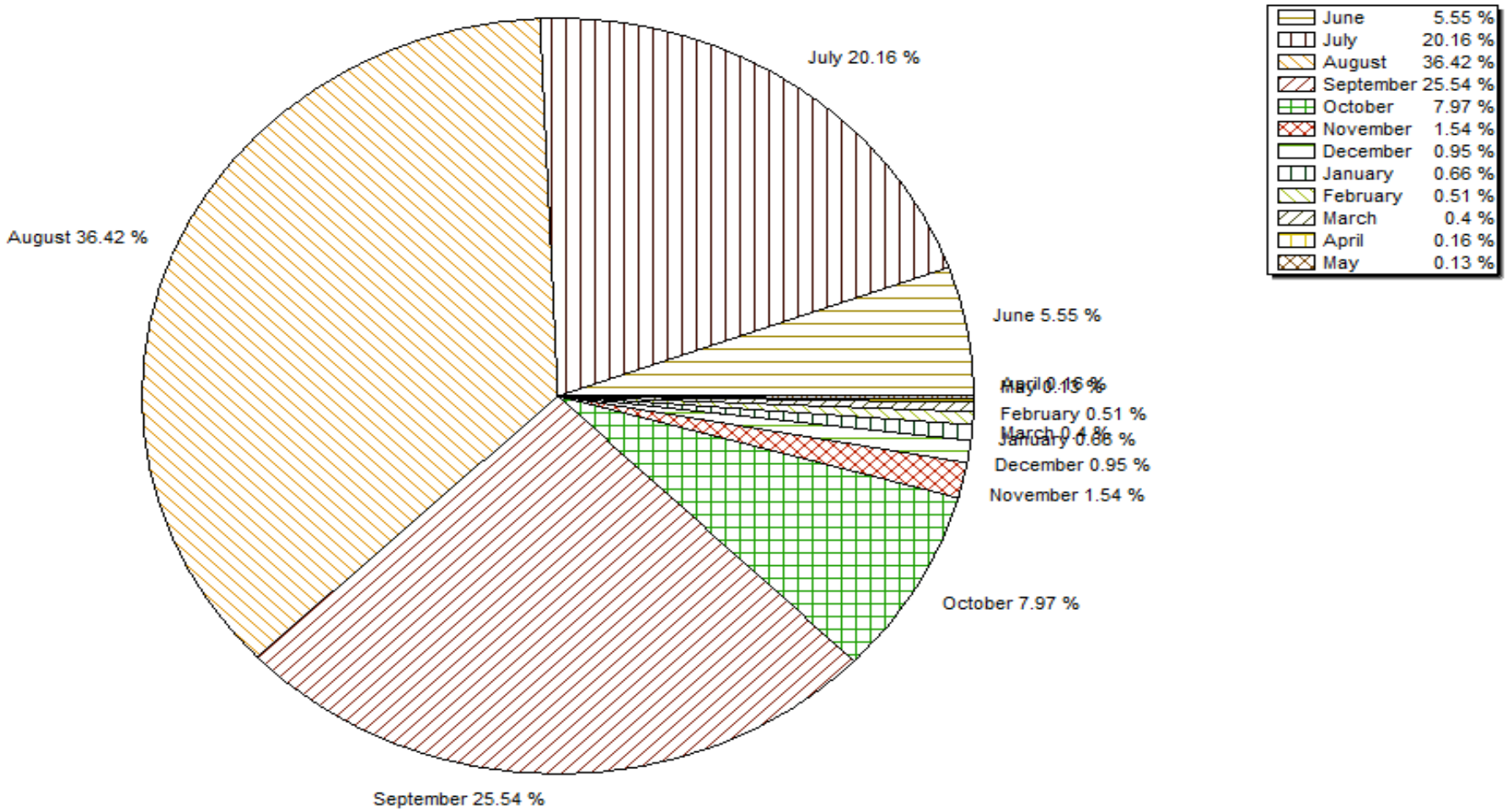
Monthly Average Runoff based on period : 1966-2015

Station Name : BAMNI (AGH30E2)

Local River : Wardha

Division : Wainganga Div., Nagpur

Sub-Division : Wardha Sub-division,Chandrapur



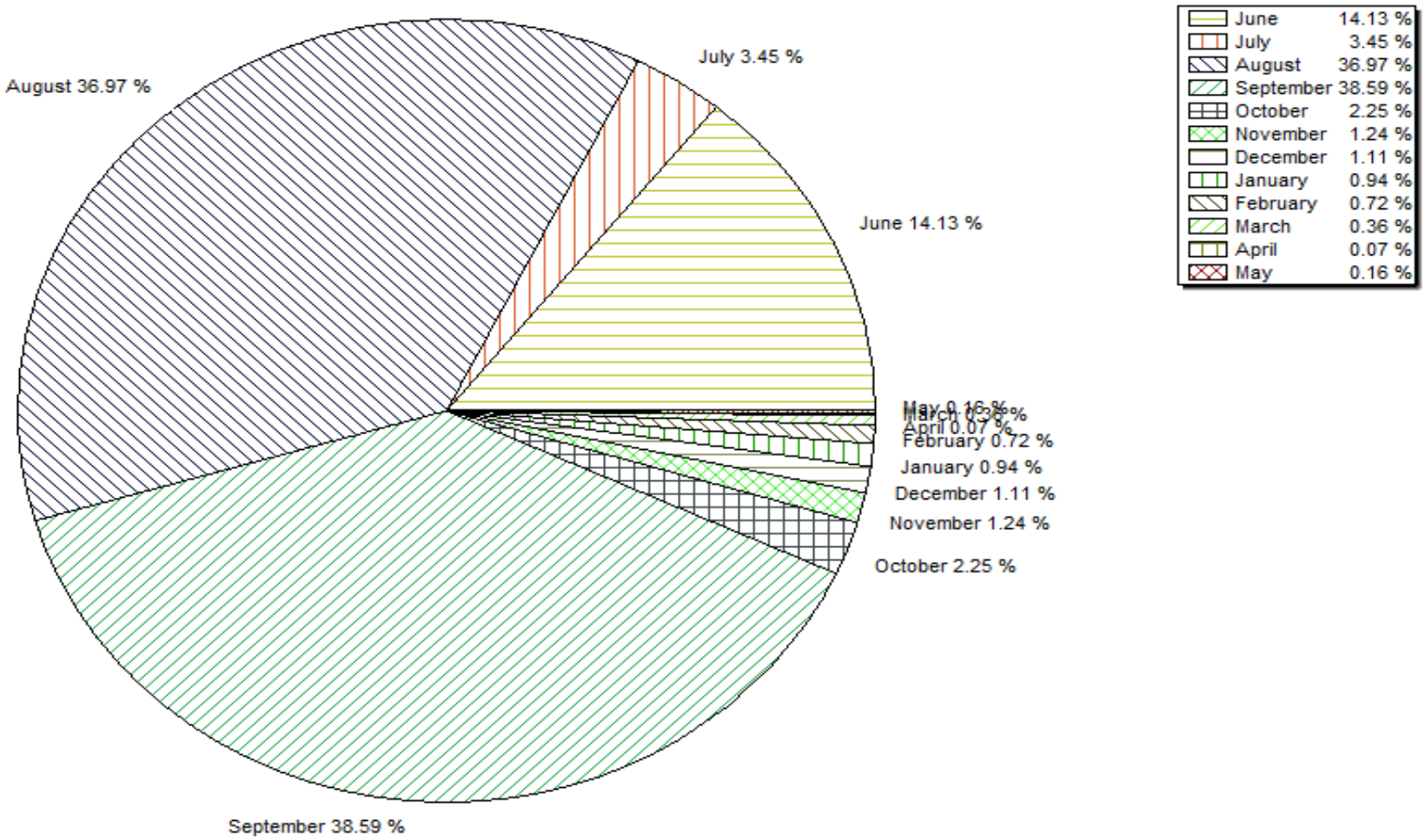
Monthly Runoff for the Year : 2015-2016

Station Name : BAMNI (AGH30E2)

Division : Wainganga Div., Nagpur

Local River : Wardha

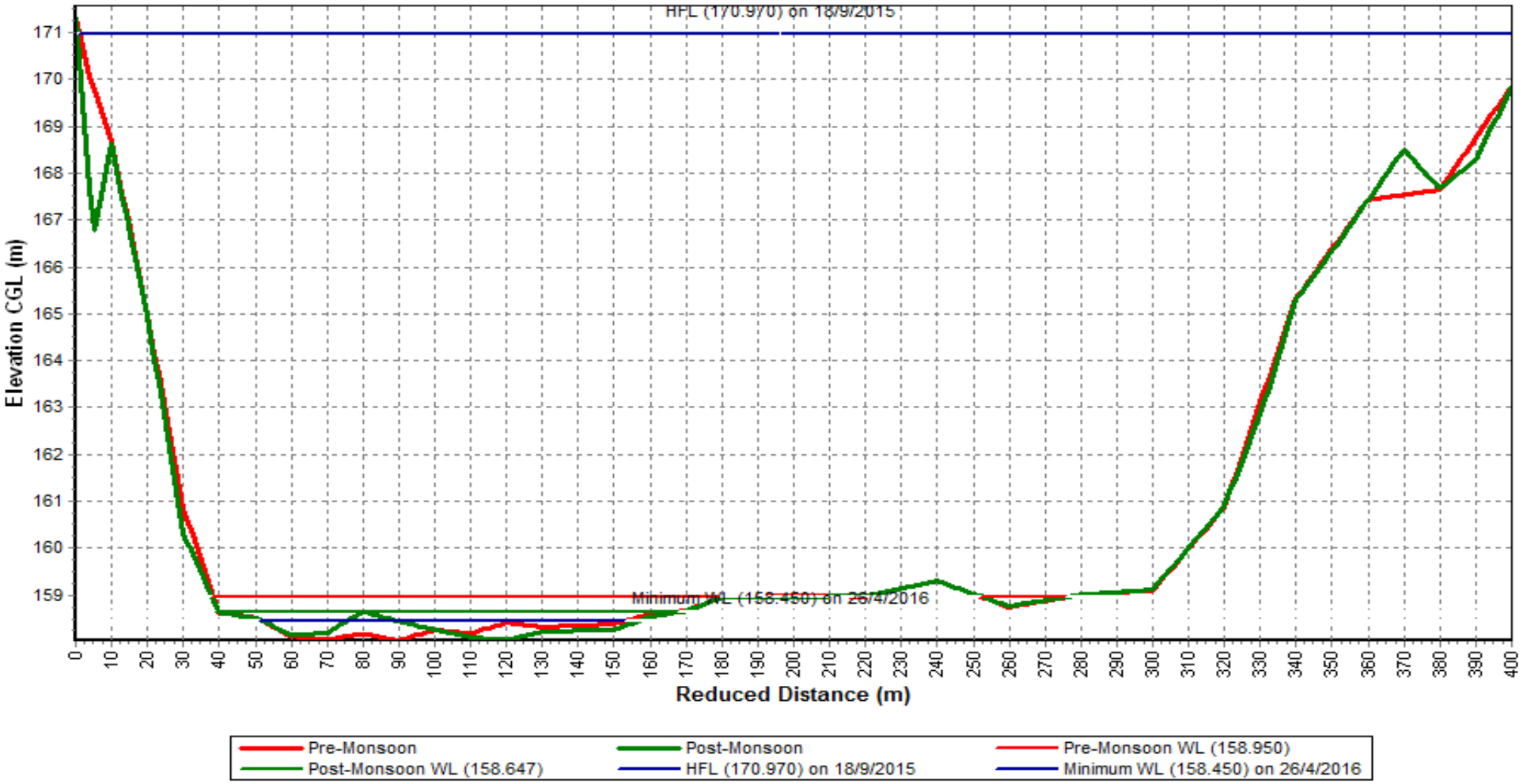
Sub-Division : Wardha Sub-division,Chandrapur



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

Station Name : BAMNI (AGH30E2) **Division : Wainganga Div., Nagpur**

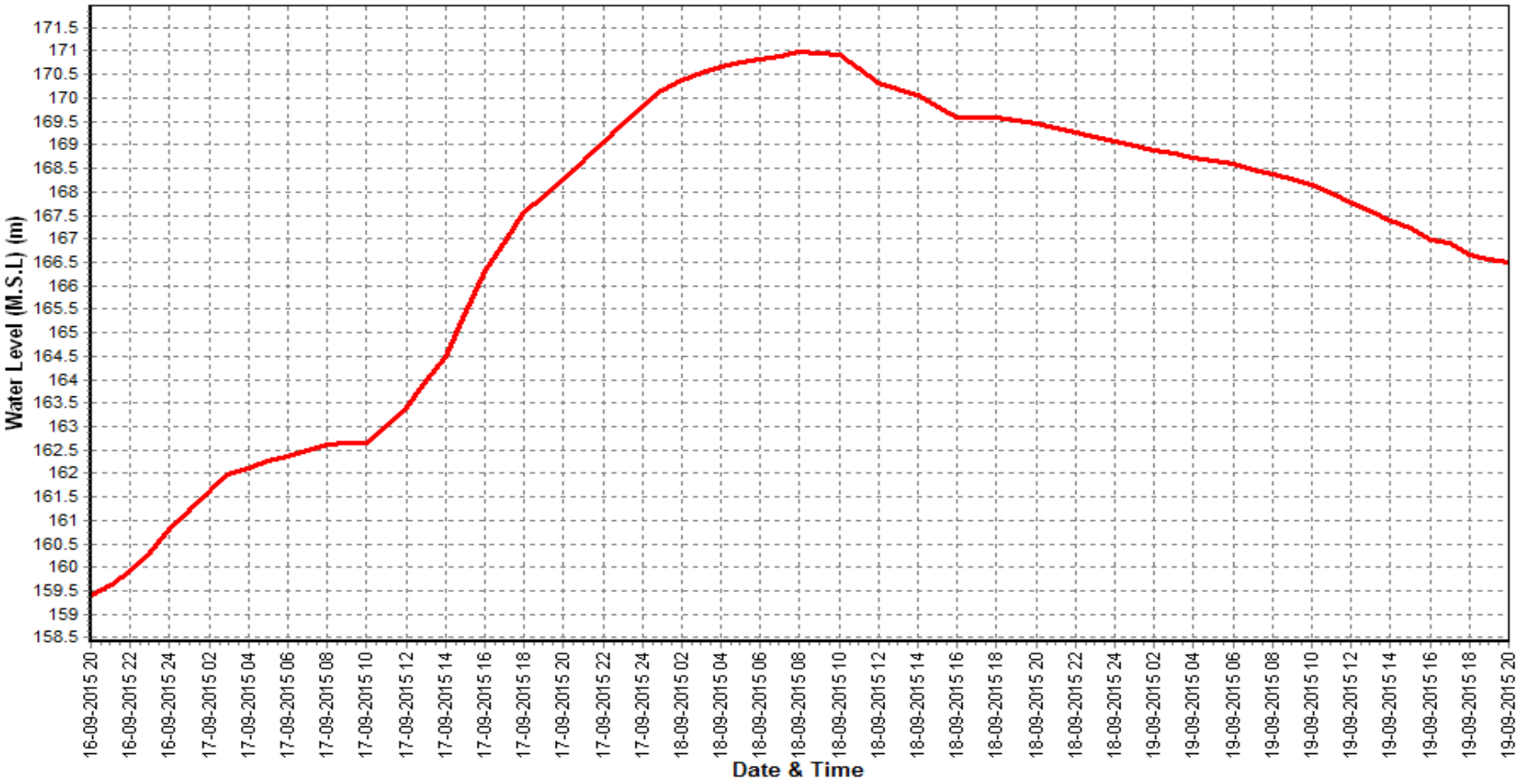
Local River : Wardha **Sub-Division : Wardha Sub-division,Chandrapur**



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

Station Name : BAMNI (AGH30E2) **Division : Wainganga Div., Nagpur**

Local River : Wardha **Sub-Division : Wardha Sub-division,Chandrapur**

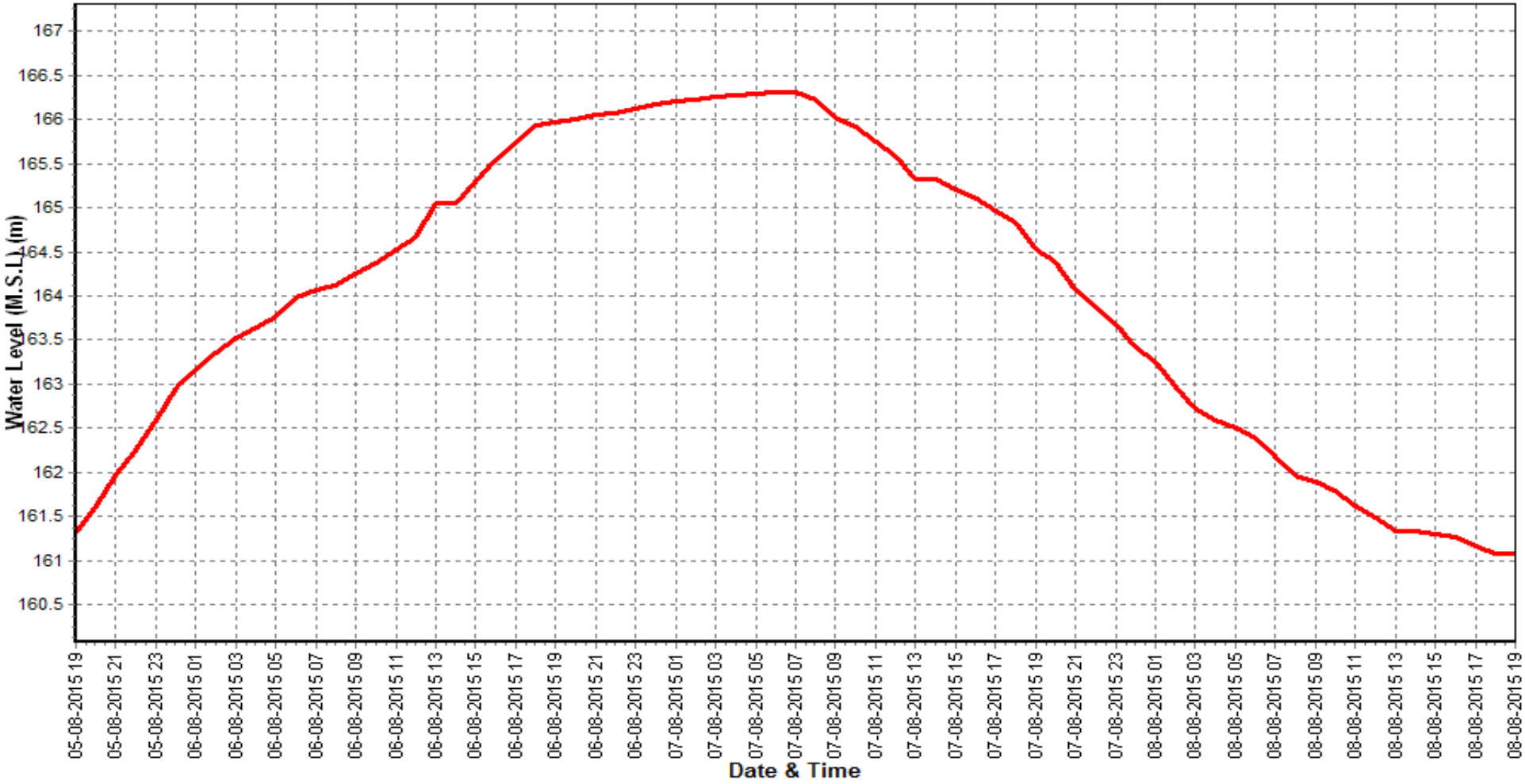


Time Span: 72 Hrs

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

Station Name : BAMNI (AGH30E2) **Division : Wainganga Div., Nagpur**

Local River : Wardha **Sub-Division : Wardha Sub-division,Chandrapur**

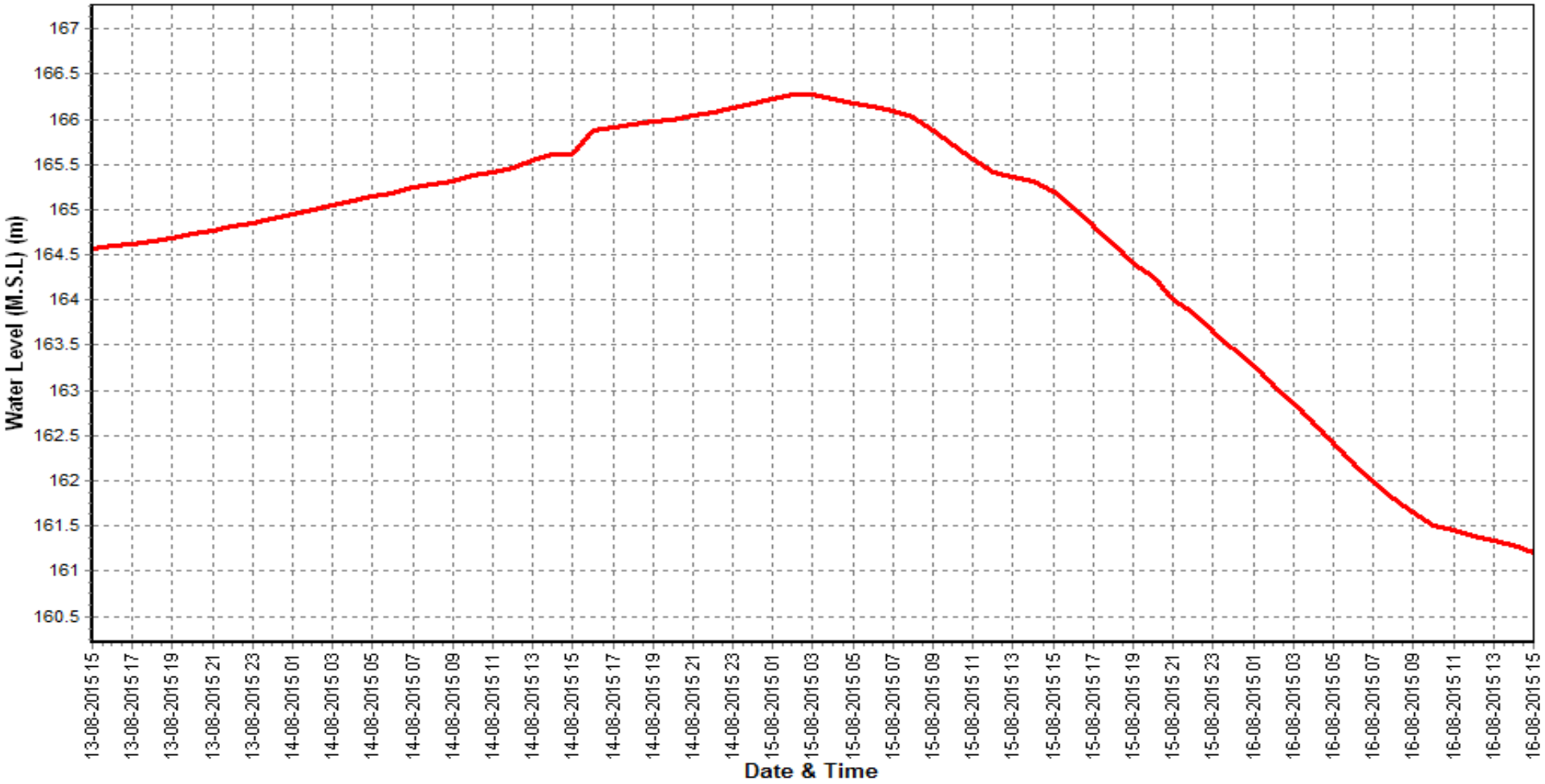


Time Span: 72 Hrs

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

Station Name : BAMNI (AGH30E2) **Division : Wainganga Div., Nagpur**

Local River : Wardha **Sub-Division : Wardha Sub-division,Chandrapur**



Time Span: 72 Hrs

HISTORY SHEET

			Water Year	:	**2015-2016**
Site	:	**P.G.BRIDGE**	**Code**	:	**AGH32D5**
State	:	Maharashtra	District		Yeotmal
Basin	:	Godavari	Independent River	:	Godavari
Tributary	:	Pranhita	Sub Tributary	:	Wardha
Sub-Sub Tributary	:	Penganga	Local River	:	Penganga
Division	:	Wainganga Div., Nagpur	Sub-Division	:	Penganga Sd, Yeotmal
Drainage Area	:	18441 Sq. Km.	Bank	:	Left
Latitude	:	19°49'03"	Longitude	:	78°34'40"
Zero of Gauge (m)	:	196.828 (m.s.l) 198.63 (m.s.l)	25.12.1964 01.12.1992	-	30.11.1992
		Opening Date	Closing Date		
Gauge	:	25.12.1964	**HFL During 2015-16**	:	**206.230**
			Corres. Discharge	:	**2515.239 Cumecs(Estimated)**
Discharge	:	21.07.1965	**Date & Time of**	:	**18.09.2015**
			Occurance	:	**02.00 hrs.**
Sediment	:	19.10.1965			
Water Quality	:	31.05.1966			

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

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1965-1966	1670	203.912	16.07.1965	0.000	197.217	10.06.1965
1966-1967	4309	208.821	06.09.1966	0.000	197.528	12.06.1966
1967-1968	2064	202.768	23.06.1967	0.000	197.548	20.05.1968
1968-1969	1746	203.400	05.08.1968	0.000	197.508	05.05.1969
1969-1970	3188	207.073	07.09.1969	0.000	197.572	17.04.1970
1970-1971	5734	211.152	20.08.1970	0.020	197.482	01.06.1970
1971-1972	1046	201.953	28.08.1971	0.000	197.462	19.04.1972
1972-1973	3633	205.352	28.06.1972	0.000	197.448	13.05.1973
1973-1974	3552	207.850	26.08.1973	0.000	197.417	02.06.1973
1974-1975	1142	202.470	10.10.1974	0.000	197.548	16.05.1975
1975-1976	5278	209.515	05.09.1975	0.000	197.633	31.05.1976
1976-1977	6137	210.077	22.07.1976	0.000	197.798	26.05.1977
1977-1978	3642	206.202	04.09.1977	0.000	197.798	08.06.1977
1978-1979	5410	209.038	13.07.1978	1.300	197.758	08.05.1979
1979-1980	4130	207.428	26.06.1979	0.060	197.603	31.05.1980
1980-1981	4873	207.348	23.08.1980	0.100	197.593	01.06.1980
1981-1982	4513	207.828	27.09.1981	0.700	197.698	01.06.1981
1982-1983	1948	203.668	24.07.1982	0.300	197.698	07.05.1983
1983-1984	16000	214.178	11.08.1983	0.200	197.693	13.06.1983
1984-1985	353.4	200.313	19.07.1984	0.000	197.658	06.04.1985
1985-1986	2141	203.623	27.06.1985	0.000	197.688	29.05.1986

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**
1986-1987	6561	211.608	23.07.1986	0.000	197.663	02.06.1986
1987-1988	741.2	201.321	25.08.1987	0.000	197.563	09.05.1988
1988-1989	5970	209.628	22.07.1988	0.000	197.583	16.06.1988
1989-1990	5591	211.613	19.08.1989	0.800	197.958	02.06.1989
1990-1991	5520	211.848	30.08.1990	1.800	197.928	04.06.1990
1991-1992	1125	203.063	12.07.1991	0.000	197.683	23.04.1992
1992-1993	4533	207.428	02.09.1992	0.000	197.668	13.06.1992
1993-1994	3676	208.340	31.07.1993	0.000	199.410	11.05.1994
1994-1995	5334	209.950	12.07.1994	0.000	199.375	12.06.1994
1995-1996	6591	213.320	20.10.1995	0.184	199.300	10.05.1996
1996-1997	2082	205.765	17.09.1996	0.067	199.400	28.05.1997
1997-1998	528.1	202.670	23.08.1997	0.000	199.415	15.05.1998
1998-1999	2192	205.645	25.09.1998	0.040	199.540	06.06.1998
1999-2000	4109	207.890	03.08.1999	0.870	199.660	12.06.1999
2000-2001	4658	209.080	19.07.2000	0.000	199.400	16.05.2001
2001-2002	4530	208.565	23.08.2001	0.000	199.450	01.05.2002
2002-2003	8702	213.890	25.08.2002	0.000	199.460	07.06.2002
2003-2004	4118	208.205	09.08.2003	0.000	199.470	24.04.2004
2004-2005	721.3	203.265	06.08.2004	0.000	199.480	16.01.2005
2005-2006	7140	213.355	28.07.2005	0.000	199.505	23.06.2005
2006-2007	13881	217.920	07.08.2006	0.378	199.960	23.05.2007
2007-2008	2877	206.780	07.09.2007	0.001	199.560	12.05.2008
2008-2009	1411	204.330	04.08.2008	0.028	199.725	27.12.2008
2009-2010	833.0	203.530	29.06.2009	0.105	199.680	16.12.2009
2010-2011	6749	211.455	07.08.2010	0.000	199.210	25.06.2010
2011-2012	2405	206.330	26.08.2011	0.000	199.600	14.05.2012
2012-2013	7265	213.465	23.07.2012	0.000	199.490	10.05.2013
2013-2014	9061	214.610	02.08.2013	0.431	199.730	24.02.2014
2014-2015	2607	206.305	08.09.2014	0.000	199.620	28.12.2014

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

Stage-Discharge Data for the period 2015 - 2016

Station Name : P.G.BRIDGE (AGH32D5) **Division : Wainganga Div., Nagpur**

Local River : Penganga **Sub-Division : Penganga Sd, Yeotmal**

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	199.640	0.000	200.810	56.56	200.510	8.887	200.375	32.88	200.530	43.31	199.650	0.435 *
2	199.640	0.000	200.920	68.98	200.470	6.438 *	200.460	36.89	200.500	42.84 *	199.650	0.451
3	199.640	0.000	201.210	133.4 #	200.430	5.015	200.390	32.00	200.440	37.03	199.640	0.404
4	199.640	0.000	200.975	65.33	200.400	3.836	200.340	28.46	200.390	32.15 *	199.630	0.333
5	199.650	0.000	200.840	29.05 *	200.400	3.820	200.285	23.98	200.350	31.39	199.700	0.867
6	199.640	0.000	200.755	25.31	202.790	580.2	200.240	19.99 *	200.310	27.29	199.900	3.927
7	199.640	0.000	200.670	14.47	200.945	108.3	200.510	41.27	200.270	22.80	199.910	4.019
8	199.650	0.000	200.615	13.16	201.030	114.7	200.765	64.77	200.230	19.46	199.910	4.226 *
9	199.640	0.000	200.550	10.40	200.570	50.41 *	200.525	44.30	200.170	11.38	199.910	3.974
10	199.630	0.000	200.510	8.646	200.505	33.47	200.405	34.59	200.150	10.91	199.970	5.018
11	199.630	0.000	200.470	5.372	200.495	31.58	200.350	29.83	200.110	9.729 *	199.940	4.909 *
12	199.660	0.000	200.440	5.408 *	204.350	1343	200.350	30.20	200.070	9.230	199.890	3.414
13	199.660	0.000	200.410	4.125	202.555	527.7	200.270	22.20 *	200.040	8.236	199.840	2.740
14	199.650	0.000	200.400	3.782	202.470	487.3	200.295	22.29	200.000	6.682	199.800	2.087
15	199.660	0.000	200.380	3.357	201.830	286.3 *	200.350	25.47	199.950	5.762	199.770	1.707 *
16	199.650	0.000	200.340	2.607	201.370	178.6 *	200.970	109.4	199.920	4.842	199.740	1.099
17	199.650	0.000	200.310	2.048	200.920	113.1	200.980	106.6 *	199.880	4.242	199.710	0.903
18	201.745	291.5	200.290	1.757 *	200.800	79.46 #	205.400	1698	199.850	3.011 *	199.690	0.759
19	201.470	220.6	200.280	1.594 *	200.990	118.5	203.530	937.0	199.870	3.479	199.670	0.638
20	201.800	301.4	200.270	1.644	200.835	98.75	203.310	796.7 *	199.900	3.879	199.650	0.405
21	204.070	1211	200.260	1.508	200.760	87.20	202.135	362.2	199.870	3.467	199.630	0.295
22	205.165	1656	200.250	1.206	200.710	75.78	201.520	208.1	199.840	2.828 *	199.620	0.247 *
23	202.580	514.1	200.360	2.960	200.620	56.18 *	201.300	135.4	199.810	2.677	199.620	0.255
24	201.440	193.3	200.885	30.42	200.595	54.40	201.010	120.8	199.780	1.850 *	199.600	0.150 #
25	201.130	125.3	200.730	23.68	200.545	50.23	200.930	98.68 *	199.770	1.707 *	199.600	0.150 *
26	200.820	55.57 #	200.680	16.87 *	200.525	43.44	200.885	87.07	199.740	1.118	199.580	0.077 #
27	201.080	103.2	200.640	18.03	200.475	39.65	200.800	79.46 *	199.730	1.040	199.580	0.000
28	201.090	107.1 *	200.740	18.71	200.425	36.00	200.750	80.68	199.710	0.937	199.580	0.000
29	200.940	78.62	200.670	14.87	200.410	33.65	200.680	62.54	199.700	0.858	199.580	0.000
30	200.875	67.58	200.590	12.01	200.380	31.26 *	200.630	54.99	199.680	0.781	199.580	0.000
31			200.550	10.37	200.370	30.05			199.670	0.556		
Daily Mean												
Ten-Dai	199.641	0.000	200.786	42.54	200.805	91.50	200.430	35.91	200.334	27.86	199.787	2.365
Ten-Dai	200.258	81.36	200.359	3.169	201.662	326.4	201.580	377.8	199.959	5.909	199.770	1.866
Ten-Da	201.919	411.2	200.578	13.69	200.529	48.89	201.064	129.0	199.755	1.620	199.597	0.117
Monthly												
Min.	199.630	0.000	200.250	1.206	200.370	3.820	200.240	19.99	199.670	0.556	199.580	0.000
Max.	205.165	1656	201.210	133.4	204.350	1343	205.400	1698	200.530	43.31	199.970	5.018
Mean	200.606	164.2	200.574	19.6	200.983	152.2	201.025	180.9	200.007	11.47	199.718	1.45

Annual Runoff in MCM = 1390 Annual Runoff in mm = 75

Peak Observed Discharge = 1698 cumecs on 18-09-2015 Corres. Water Level :205.4 m

Lowest Observed Discharge = 0.000 cumecs on 01-06-2015 Corres. Water Level :199.64 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 : P.G.BRIDGE (AGH32D5) **Division : Wainganga Div., Nagpur**

Local River : Penganga **Sub-Division : Penganga Sd, Yeotmal**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	199.570	0.000	199.570	0.000	199.550	0.000	199.660	0.276	199.510	0.000	199.460	0.000
2	199.570	0.000	199.570	0.000	199.540	0.000	199.650	0.256	199.510	0.000	199.460	0.000
3	199.560	0.000	199.560	0.000	199.540	0.000	199.620	0.072	199.510	0.000	199.450	0.000
4	199.560	0.000	199.550	0.000	199.530	0.000	199.600	0.000	199.510	0.000	199.430	0.000
5	199.550	0.000	199.540	0.000	199.520	0.000	199.590	0.000	199.510	0.000	199.450	0.000
6	199.550	0.000	199.530	0.000	199.510	0.000	199.580	0.000	199.500	0.000	199.470	0.000
7	199.550	0.000	199.530	0.000	199.510	0.000	199.570	0.000	199.500	0.000	199.460	0.000
8	199.540	0.000	199.520	0.000	199.510	0.000	199.560	0.000	199.500	0.000	199.460	0.000
9	199.530	0.000	199.510	0.000	199.500	0.000	199.560	0.000	199.500	0.000	199.570	0.000
10	199.530	0.000	199.550	0.000	199.500	0.000	199.550	0.000	199.500	0.000	199.550	0.000
11	199.520	0.000	199.830	2.742	199.500	0.000	199.550	0.000	199.490	0.000	199.540	0.000
12	199.510	0.000	199.800	2.102	199.500	0.000	199.540	0.000	199.490	0.000	199.530	0.000
13	199.500	0.000	199.770	1.635	199.500	0.000	199.540	0.000	199.490	0.000	199.530	0.000
14	199.500	0.000	199.740	1.351	199.500	0.000	199.540	0.000	199.490	0.000	199.530	0.000
15	199.500	0.000	199.720	0.891	199.500	0.000	199.530	0.000	199.490	0.000	199.530	0.000
16	199.500	0.000	199.700	0.620	199.500	0.000	199.530	0.000	199.490	0.000	199.530	0.000
17	199.500	0.000	199.680	0.527 *	199.500	0.000	199.540	0.000	199.490	0.000	199.530	0.000
18	199.490	0.000	199.660	0.428	199.500	0.000	199.530	0.000	199.480	0.000	199.530	0.000
19	199.490	0.000	199.650	0.322	199.490	0.000	199.530	0.000	199.480	0.000	199.520	0.000
20	199.490	0.000	199.640	0.256	199.490	0.000	199.530	0.000	199.480	0.000	199.520	0.000
21	199.490	0.000	199.630	0.170	199.490	0.000	199.520	0.000	199.480	0.000	199.510	0.000
22	199.490	0.000	199.620	0.124	199.480	0.000	199.520	0.000	199.470	0.000	199.510	0.000
23	199.500	0.000	199.610	0.093	199.490	0.000	199.510	0.000	199.470	0.000	199.500	0.000
24	199.500	0.000	199.610	0.070 *	199.590	0.000	199.510	0.000	199.460	0.000	199.500	0.000
25	199.500	0.000	199.600	0.032	199.590	0.000	199.510	0.000	199.450	0.000	199.490	0.000
26	199.500	0.000	199.590	0.000	199.600	0.000	199.510	0.000	199.450	0.000	199.490	0.000
27	199.500	0.000	199.580	0.000	199.600	0.000	199.510	0.000	199.450	0.000	199.480	0.000
28	199.550	0.000	199.570	0.000	199.600	0.000	199.520	0.000	199.450	0.000	199.470	0.000
29	199.560	0.000	199.570	0.000	199.610	0.000	199.520	0.000	199.450	0.000	199.470	0.000
30	199.570	0.000	199.560	0.000			199.520	0.000	199.460	0.000	199.460	0.000
31	199.570	0.000	199.550	0.000			199.510	0.000			199.460	0.000
-Daily M												
Ten-Dai	199.551	0.000	199.543	0.000	199.521	0.000	199.594	0.060	199.505	0.000	199.476	0.000
Ten-Dai	199.500	0.000	199.719	1.087	199.498	0.000	199.536	0.000	199.487	0.000	199.529	0.000
Ten-Da	199.521	0.000	199.590	0.044	199.561	0.000	199.515	0.000	199.459	0.000	199.485	0.000
Monthly												
Min.	199.490	0.000	199.510	0.000	199.480	0.000	199.510	0.000	199.450	0.000	199.430	0.000
Max.	199.570	0.000	199.830	2.742	199.610	0.000	199.660	0.276	199.510	0.000	199.570	0.000
Mean	199.524	0	199.616	0.367	199.526	0	199.547	0.019	199.484	0	199.496	0

Peak Computed Discharge = 796.7 cumecs on 20-09-2015 Corres. Water Level :203.31 m

Lowest Computed Discharge = 0.070 cumecs on 24-01-2016 Corres. Water Level :199.61 m

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

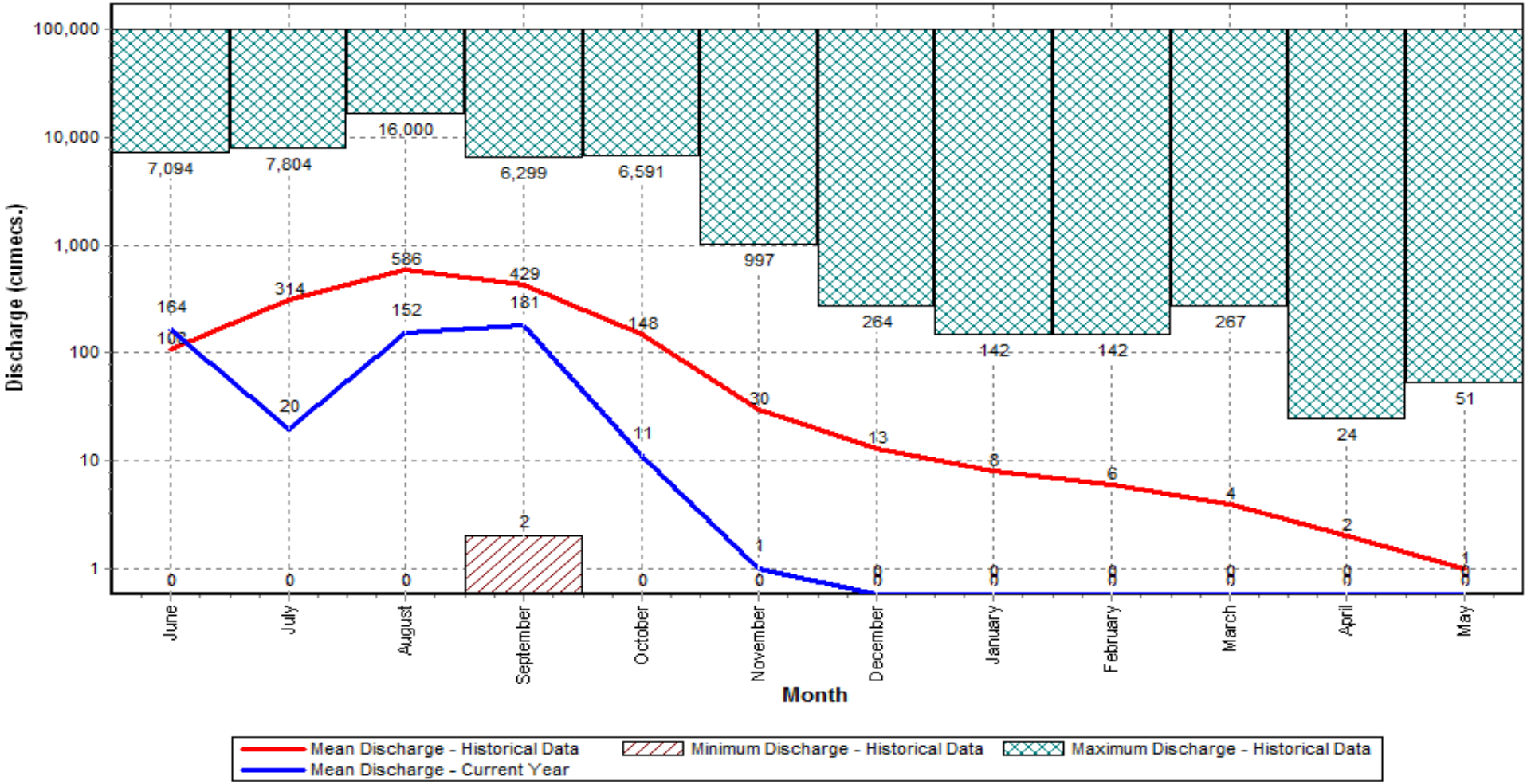
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016

Station Name : P.G.BRIDGE (AGH32D5) | **Data considered : 1965-2016** | **Division : Wainganga Div., Nagpur**

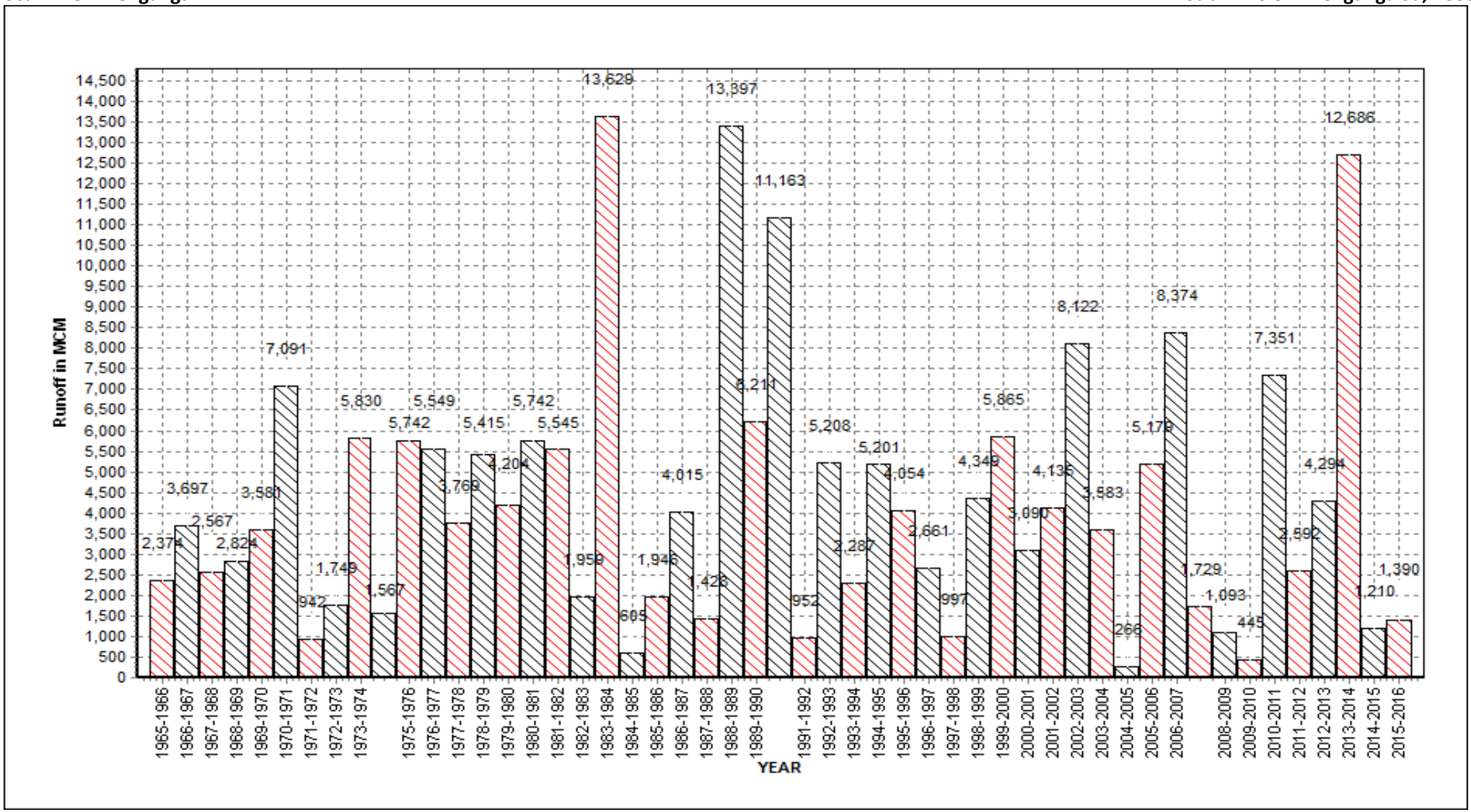
Local River : Penganga | **Sub-Division : Penganga Sd, Yeotmal**



Annual Runoff Values for the period: 1965 - 2016

Station Name : P.G.BRIDGE (AGH32D5) **Division : Wainganga Div., Nagpur**

Local River : Penganga **Sub-Division : Penganga Sd, Yeotmal**



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

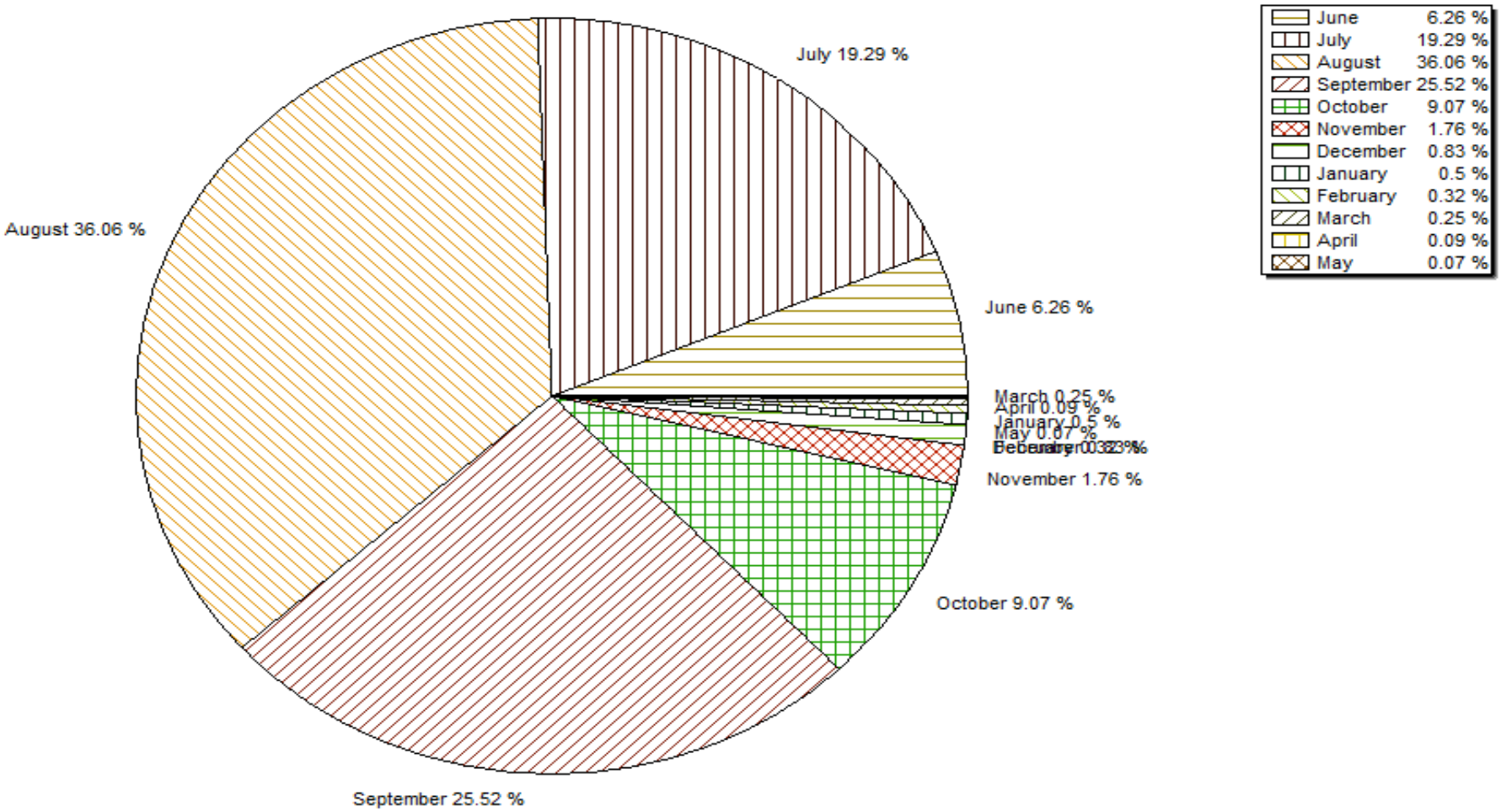
Monthly Average Runoff based on period : 1965-2015

Station Name : P.G.BRIDGE (AGH32D5)

Local River : Penganga

Division : Wainganga Div., Nagpur

Sub-Division : Penganga Sd, Yeotmal



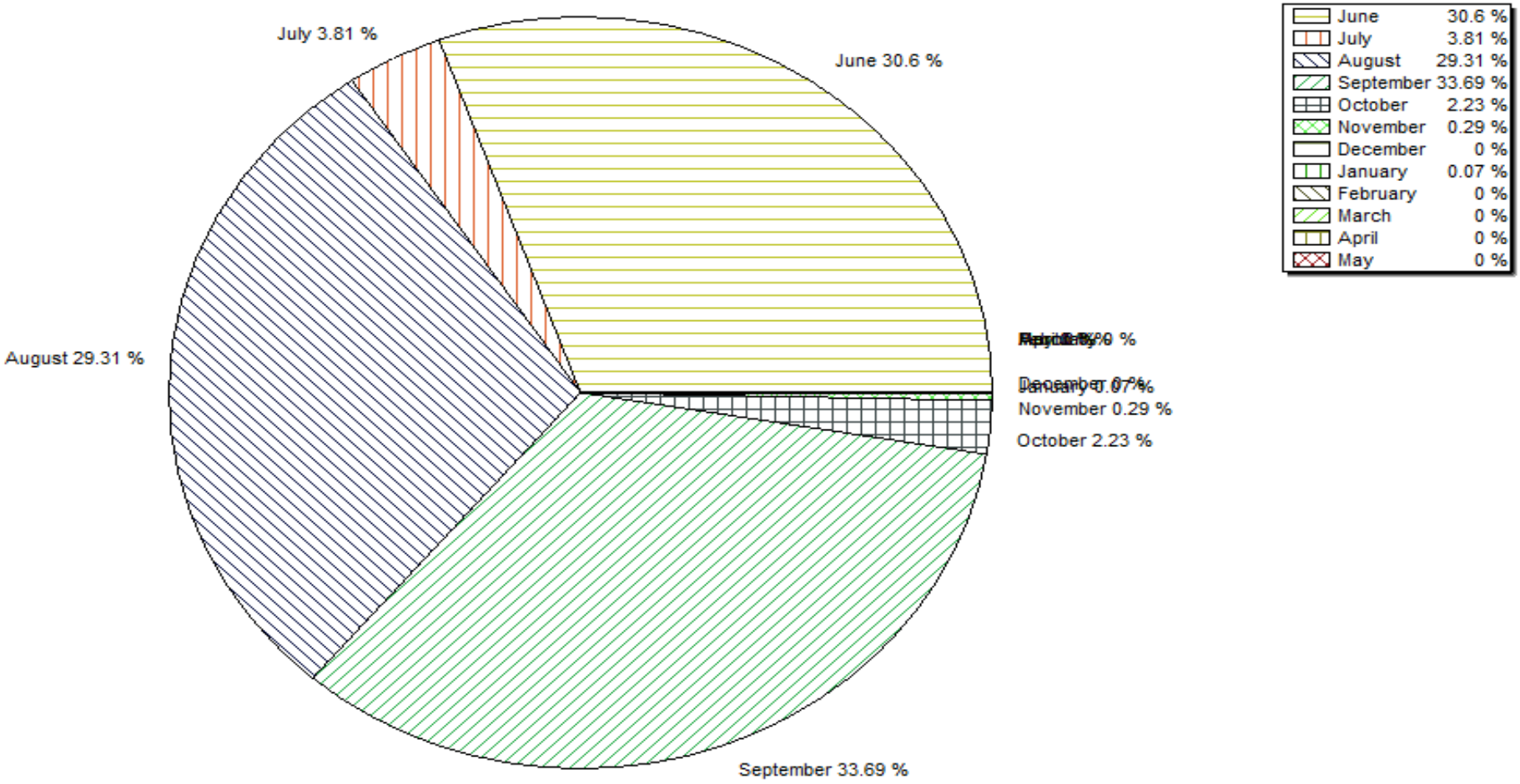
Monthly Runoff for the Year : 2015-2016

Station Name : P.G.BRIDGE (AGH32D5)

Division : Wainganga Div., Nagpur

Local River : Penganga

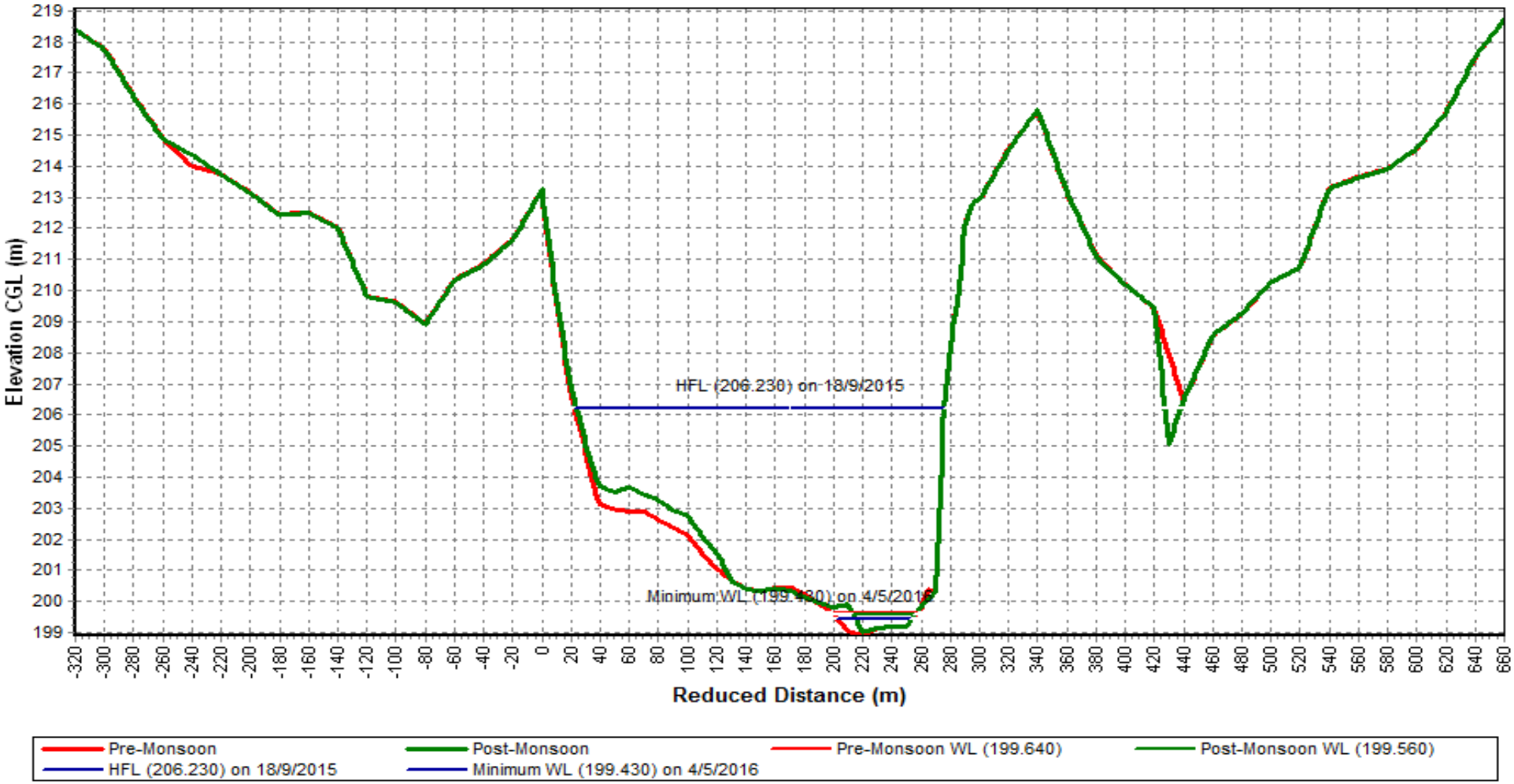
Sub-Division : Penganga Sd, Yeotmal



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

Station Name : P.G.BRIDGE (AGH32D5) **Division : Wainganga Div., Nagpur**

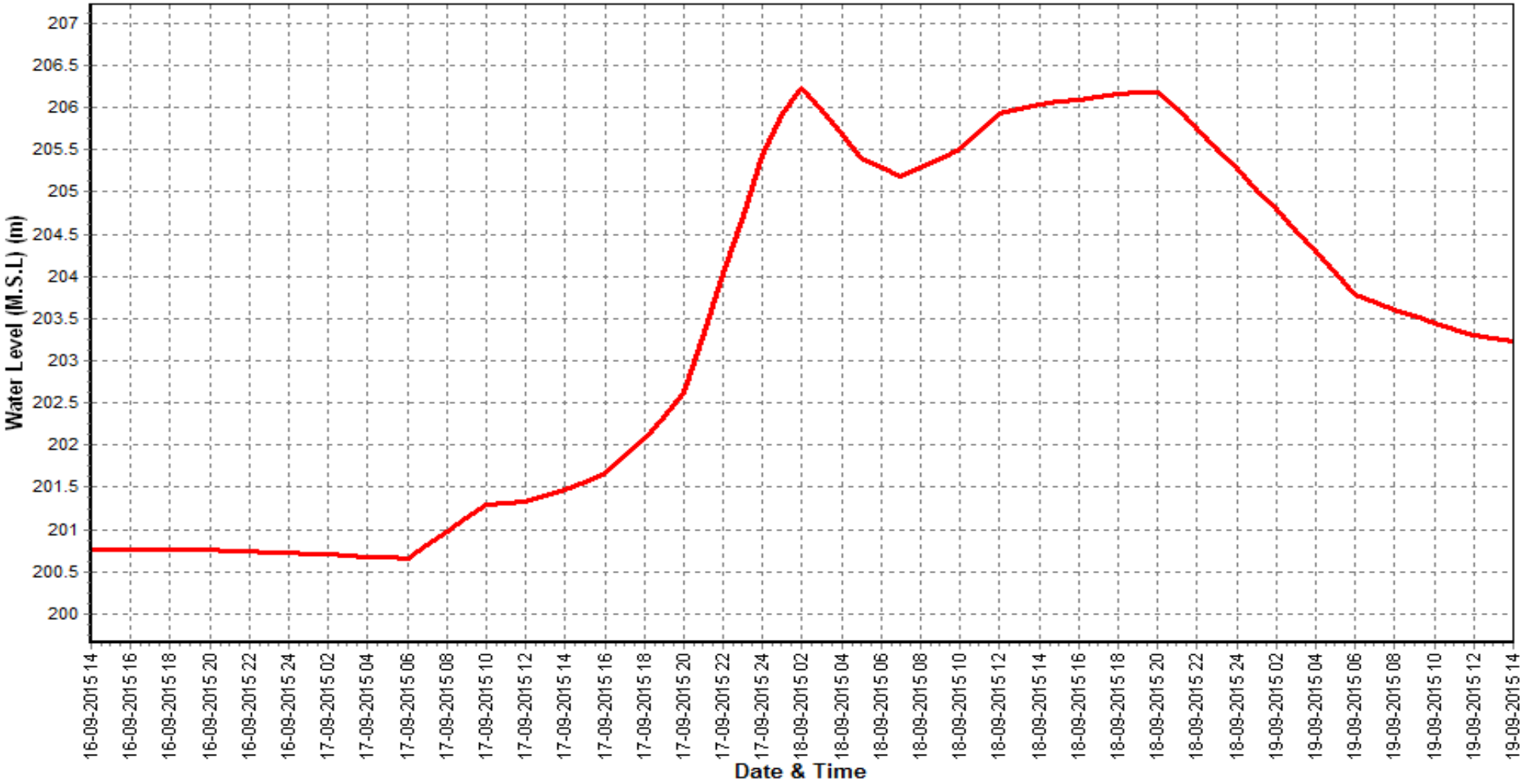
Local River : Penganga **Sub-Division : Penganga Sd, Yeotmal**



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

Station Name : P.G.BRIDGE (AGH32D5) **Division : Wainganga Div., Nagpur**

Local River : Penganga **Sub-Division : Penganga Sd, Yeotmal**

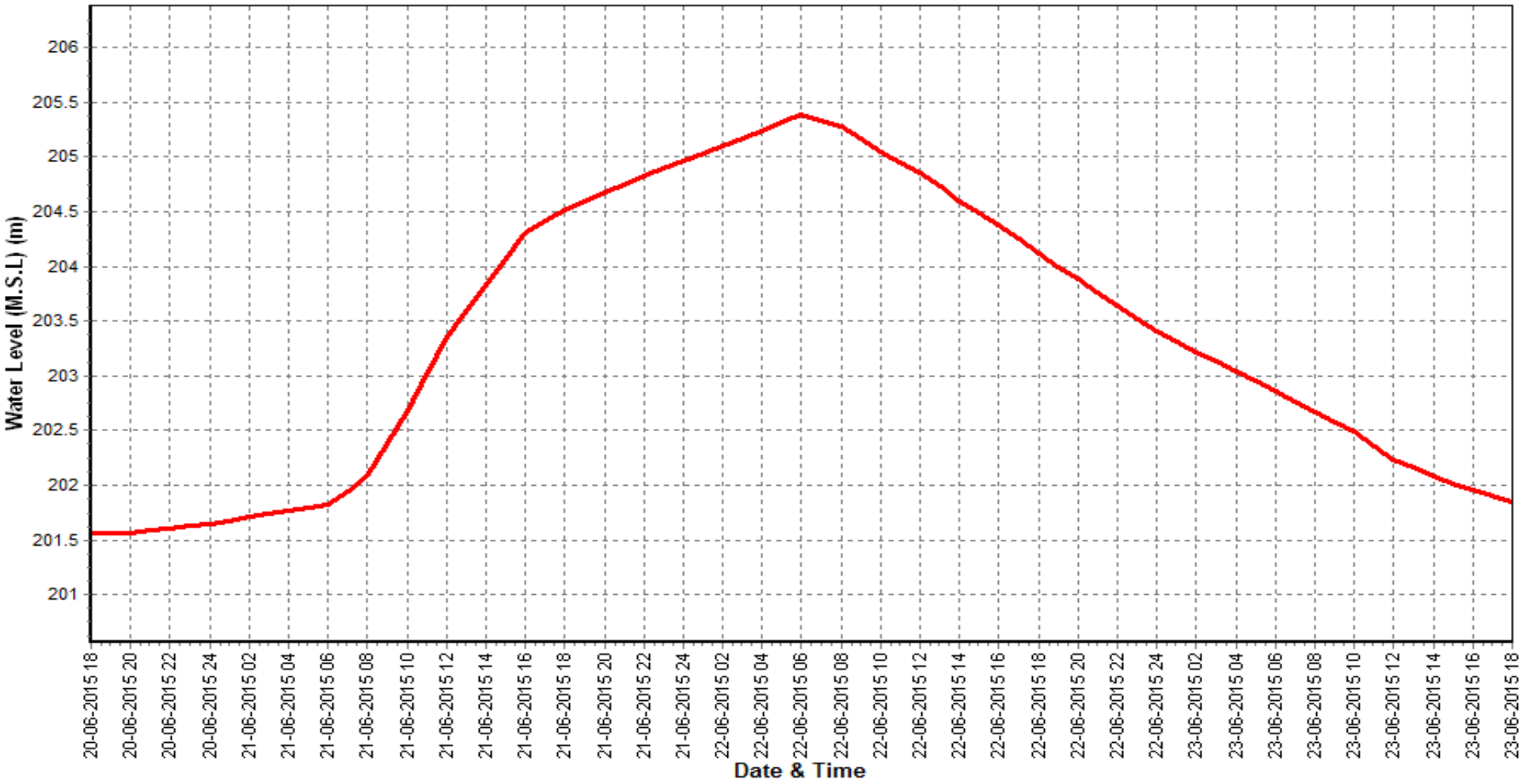


Time Span: 72 Hrs

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

Station Name : P.G.BRIDGE (AGH32D5) **Division : Wainganga Div., Nagpur**

Local River : Penganga **Sub-Division : Penganga Sd, Yeotmal**

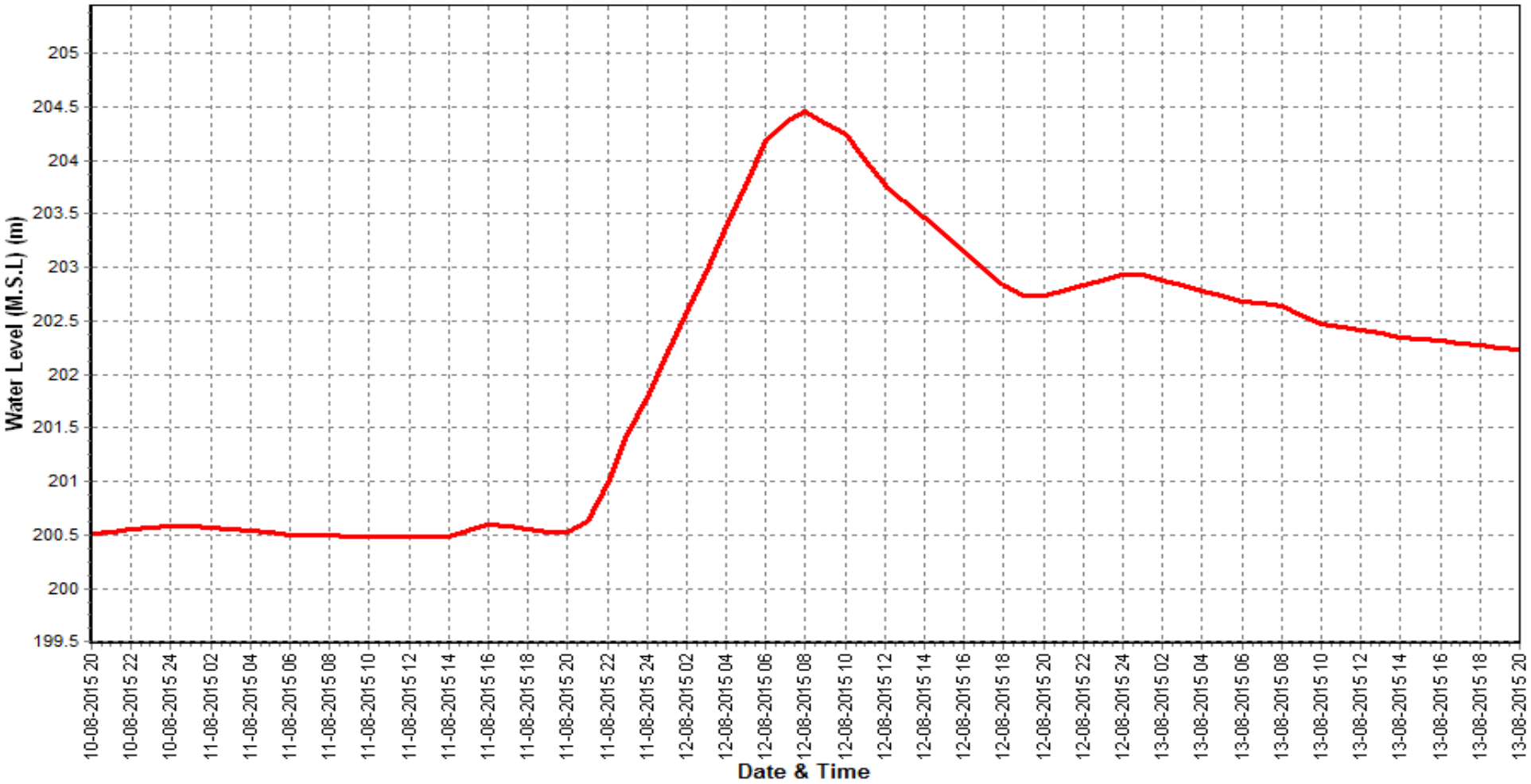


Time Span: 72 Hrs

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

Station Name : P.G.BRIDGE (AGH32D5) **Division : Wainganga Div., Nagpur**

Local River : Penganga **Sub-Division : Penganga Sd, Yeotmal**



Time Span: 72 Hrs

HISTORY SHEET

Water Year : 2015-2016

Site	**:**	**MANGRUL**	**Code**	**:**	**AGH35G0**
State	:	Maharashtra	District		Yeotmal
Basin	:	Godavari	Independent River	:	Godavari
Tributary	:	Pranhita	Sub Tributary	:	Wardha
Sub-Sub Tributary	:	Penganga	Local River	:	Aran
Division	:	Wainganga Div., Nagpur	Sub-Division	:	Penganga Sd, Yeotmal
Drainage Area	:	2500 Sq. Km.	Bank	:	Right
Latitude	:	20°11'19"	Longitude	:	77°59'12"
Zero of Gauge (m)	:	180 (m.s.l) 279.375 (m.s.l)	09.11.1992 01.06.1996	-	31.05.1996
		Opening Date	Closing Date		
Gauge	:	09.11.1992	**HFL During 2015-16**	**:**	**287.425**
			Corres. Discharge	**:**	**2368.932 Cumecs(Estimated)**
Discharge	:	09.11.1992	**Date & Time of**	**:**	**05.08.2015**
			Occurance	**:**	**07.00 hrs.**
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**
1993-1994	323.9	185.390	19.06.1993	0.010	181.480	03.02.1994
1994-1995	602.8	188.255	31.08.1994	0.035	181.510	03.06.1994
1995-1996	698.4	188.110	02.09.1995	0.075	181.400	31.05.1996
1996-1997	152.9	283.135	08.09.1996	0.000	280.745	05.07.1996
1997-1998	84.33	282.750	08.07.1997	0.000	280.975	12.02.1998
1998-1999	299.2	284.730	11.08.1998	0.000	280.705	20.04.1999
1999-2000	478.6	285.740	10.08.1999	0.000	280.735	09.06.1999
2000-2001	1039	289.885	19.07.2000	0.000	280.835	02.04.2001
2001-2002	732.7	286.875	15.06.2001	0.000	280.785	09.04.2002
2002-2003	1151	290.375	26.08.2002	0.000	280.525	10.04.2003
2003-2004	58.03	282.515	22.08.2003	0.000	280.635	04.04.2004
2004-2005	12.79	281.605	05.08.2004	0.000	280.505	25.01.2005
2005-2006	732.5	288.095	28.07.2005	0.000	280.575	05.12.2005
2006-2007	1211	290.125	07.08.2006	0.000	280.625	07.11.2006
2007-2008	251.3	284.275	02.09.2007	0.000	280.485	10.06.2007
2008-2009	27.55	282.125	27.07.2008	0.007	280.615	15.06.2008
2009-2010	154.0	283.475	28.06.2009	0.184	280.715	27.08.2009
2010-2011	306.4	283.575	10.09.2010	0.000	280.815	12.02.2011
2011-2012	173.8	283.025	11.09.2011	0.000	280.985	11.03.2012
2012-2013	454.9	285.675	05.09.2012	0.000	281.525	17.01.2013
2013-2014	997.0	288.895	16.06.2013	0.000	281.315	31.01.2014
2014-2015	262.5	283.895	31.08.2014	0.000	280.725	10.02.2015

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

Stage-Discharge Data for the period 2015 - 2016

Station Name : MANGRUL (AGH35G0) **Division : Wainganga Div., Nagpur**

Local River : Aran **Sub-Division : Penganga Sd, Yeotmal**

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	280.305	0.000	280.755	2.394	280.555	0.000	280.825	2.578	280.905	3.349	280.535	0.000
2	280.305	0.000	280.815	2.523	280.545	0.000	280.785	2.277	280.885	3.856 *	280.525	0.000
3	280.295	0.000	280.725	1.739	280.535	0.000	280.735	1.653	280.875	3.146	280.515	0.000
4	280.285	0.000	280.685	1.537	280.525	0.000	280.710	1.439	280.865	3.498 *	280.495	0.000
5	280.275	0.000	280.665	1.126 *	280.425	0.000	280.725	1.543	280.885	3.856 #	280.475	0.000
6	280.275	0.000	280.595	0.000	281.675	38.80	280.695	1.343 *	280.835	2.615	280.465	0.000
7	280.265	0.000	280.565	0.000	281.475	29.46	280.695	1.264	280.805	2.544	280.455	0.000
8	280.265	0.000	280.535	0.000	281.235	19.26	280.785	2.253	280.755	1.776	280.445	0.000
9	280.255	0.000	280.515	0.000	281.095	10.32 *	280.775	2.125	280.725	1.527	280.435	0.000
10	280.255	0.000	280.505	0.000	281.095	9.144	281.105	6.432 #	280.695	1.189	280.425	0.000
11	280.245	0.000	280.495	0.000	281.065	8.329	280.885	3.177	280.685	1.122 *	279.375	0.000
12	280.245	0.000	280.485	0.000	281.305	19.12 #	280.775	1.990	280.655	0.950	279.375	0.000
13	280.235	0.000	280.475	0.000	281.450	28.98	280.725	1.582 *	280.645	0.902	279.375	0.000
14	280.235	0.000	280.465	0.000	281.255	19.75	280.745	1.816	280.595	0.000	279.375	0.000
15	280.225	0.000	280.455	0.000	281.145	7.143 *	280.855	2.958	280.555	0.000	279.375	0.000
16	280.225	0.000	280.445	0.000	281.085	6.088 *	280.895	4.845	280.535	0.000	279.375	0.000
17	280.235	0.000	280.435	0.000	281.035	5.307	280.885	3.856 *	280.575	0.000	279.375	0.000
18	280.245	0.000	280.425	0.000	281.005	4.768	285.115	953.5 *	280.645	0.000	279.375	0.000
19	281.620	33.01	280.415	0.000	280.985	4.155	281.875	49.10	280.605	0.000	279.375	0.000
20	281.315	23.42	280.405	0.000	281.055	5.594 #	281.715	42.20 *	280.585	0.000	279.375	0.000
21	281.435	26.19 *	280.395	0.000	281.015	5.134	281.565	36.09	280.615	0.000	279.375	0.000
22	283.325	300.5 *	280.485	0.000	280.975	4.686	281.485	30.64	280.625	0.000	279.375	0.000
23	281.615	35.02	280.505	0.000	280.945	3.970 *	281.285	16.20 #	280.635	0.000	279.375	0.000
24	281.010	9.329	280.525	0.000	280.885	3.180	281.085	8.866	280.695	0.000	279.375	0.000
25	280.875	4.259 #	280.815	2.669	280.875	2.977	281.075	8.465 *	280.655	0.000	279.375	0.000
26	280.795	2.272	280.735	0.000	280.895	3.456	281.145	11.89	280.615	0.000	279.375	0.000
27	280.735	1.797	280.605	0.000	280.875	2.821	281.105	9.390 *	280.615	0.000	280.565	0.000
28	280.695	1.455 *	280.605	0.000	280.865	2.937	281.045	8.673	280.625	0.000	280.555	0.000
29	280.665	1.246	280.585	0.000	280.855	2.737	281.005	6.516 #	280.635	0.000	280.585	0.000
30	280.635	0.875 *	280.575	0.000	280.845	2.743 *	280.985	4.506	280.585	0.000	280.575	0.000
31			280.565	0.000	280.835	2.617			280.545	0.000		
Daily Mean												
Ten-Da	280.278	0.000	280.636	0.932	280.916	10.70	280.783	2.291	280.823	2.736	280.477	0.000
Ten-Da	280.482	5.643	280.450	0.000	281.138	10.92	281.447	106.5	280.608	0.297		
Ten-Da	281.179	38.29	280.581	0.243	280.897	3.387	281.178	14.12	280.622	0.000	280.570	0.000
Monthly												
Min.	280.225	0.000	280.395	0.000	280.425	0.000	280.695	1.264	280.535	0.000	280.425	0.000
Max.	283.325	300.5	280.815	2.669	281.675	38.80	285.115	953.5	280.905	3.856	280.585	0.000
Mean	280.646	14.65	280.557	0.387	280.981	8.176	281.136	40.97	280.682	0.978	280.504	0

Annual Runoff in MCM = 170 Annual Runoff in mm = 68

Peak Observed Discharge = 49.10 cumecs on 19-09-2015 Corres. Water Level :281.875 m

Lowest Observed Discharge = 0.000 cumecs on 01-06-2015 Corres. Water Level :280.305 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

Stage-Discharge Data for the period 2015 - 2016

Station Name : MANGRUL (AGH35G0) **Division : Wainganga Div., Nagpur**

Local River : Aran **Sub-Division : Penganga Sd, Yeotmal**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	280.585	0.000	280.555	0.000	280.815	0.000	280.435	0.000	279.375	0.00	279.375	0.00
2	280.595	0.000	280.945	0.000	280.795	0.000	280.435	0.000	279.375	0.00	279.375	0.00
3	280.615	0.000	280.925	0.000	280.785	0.000	280.415	0.000	279.375	0.00	279.375	0.00
4	280.625	0.000	280.845	0.000	280.755	0.000	280.425	0.000	279.375	0.00	279.375	0.00
5	280.615	0.000	280.835	0.000	280.725	0.000	280.415	0.000	279.375	0.00	279.375	0.00
6	280.605	0.000	280.825	0.000	280.705	0.000	280.435	0.000	279.375	0.00	279.375	0.00
7	280.625	0.000	280.875	0.000	280.665	0.000	280.425	0.000	279.375	0.00	279.375	0.00
8	280.635	0.000	280.895	0.000	280.575	0.000	280.415	0.000	279.375	0.00	279.375	0.00
9	280.645	0.000	280.875	0.000	280.525	0.000	280.435	0.000	279.375	0.00	279.375	0.00
10	280.805	0.000	280.775	0.000	279.375	0.000	280.435	0.000	279.375	0.00	279.375	0.00
11	280.825	0.000	280.625	0.000	279.375	0.000	280.425	0.000	279.375	0.00	279.375	0.00
12	280.965	0.000	280.615	0.000	279.375	0.000	280.395	0.000	279.375	0.00	279.375	0.00
13	281.045	0.000	280.445	0.000	279.375	0.000	280.425	0.000	279.375	0.00	279.375	0.00
14	281.015	0.000	280.425	0.000	280.625	0.000	280.635	0.000	279.375	0.00	279.375	0.00
15	281.015	0.000	280.405	0.000	280.495	0.000	280.635	0.000	279.375	0.00	279.375	0.00
16	280.985	0.000	280.395	0.000	280.505	0.000	280.715	0.000	279.375	0.00	279.375	0.00
17	281.015	0.000	280.385	0.000	280.715	0.000	280.745	0.000	279.375	0.00	279.375	0.00
18	281.015	0.000	280.375	0.000	280.675	0.000	280.665	0.000	279.375	0.00	279.375	0.00
19	280.985	0.000	280.375	0.000	280.655	0.000	280.495	0.000	279.375	0.00	279.375	0.00
20	281.005	0.000	280.375	0.000	280.665	0.000	280.475	0.000	279.375	0.00	279.375	0.00
21	280.935	0.000	280.675	0.000	280.665	0.000	280.405	0.000	279.375	0.00	279.375	0.00
22	280.755	0.000	280.665	0.000	280.715	0.000	280.375	0.000	279.375	0.00	279.375	0.00
23	280.635	0.000	280.775	0.000	280.725	0.000	280.275	0.000	279.375	0.00	279.375	0.00
24	280.495	0.000	280.765	0.000	280.715	0.000	279.375	0.00	279.375	0.00	279.375	0.00
25	280.485	0.000	280.735	0.000	280.575	0.000	279.375	0.000	279.375	0.00	279.375	0.00
26	280.475	0.000	280.715	0.000	280.535	0.000	279.375	0.000	279.375	0.00	279.375	0.00
27	280.455	0.000	280.765	0.000	280.475	0.000	279.375	0.000	279.375	0.00	279.375	0.00
28	280.435	0.000	280.795	0.000	280.455	0.000	279.375	0.000	279.375	0.00	279.375	0.00
29	280.425	0.000	280.825	0.000	280.445	0.000	279.375	0.000	279.375	0.00	279.375	0.00
30	280.415	0.000	280.815	0.000			279.375	0.000	279.375	0.00	279.375	0.00
31	280.535	0.000	280.815	0.000			279.375	0.000			279.375	0.00
Daily M												
Ten-Da	280.635	0.000	280.835	0.000	280.705	0.000	280.427	0.000	279.375	0.000	279.375	0.000
Ten-Da	280.987	0.000	280.442	0.000	280.619	0.000	280.561	0.000	279.375	0.000	279.375	0.000
Ten-Da	280.550	0.000	280.759	0.000	280.589	0.000	280.352	0.000	279.375	0.000	279.375	0.000
Monthl												
Min.	280.415	0.000	280.375	0.000	280.445	0.000	280.275	0.000	279.375	0.000	279.375	0.000
Max.	281.045	0.000	280.945	0.000	280.815	0.000	280.745	0.000	279.375	0.000	279.375	0.000
Mean	280.718	0	280.681	0	280.639	0	280.475	0	279.375	0	279.375	0

Peak Computed Discharge = 953.5 cumecs on 18-09-2015 Corres. Water Level :285.115 m

Lowest Computed Discharge = 0.875 cumecs on 30-06-2015 Corres. Water Level :280.635 m

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

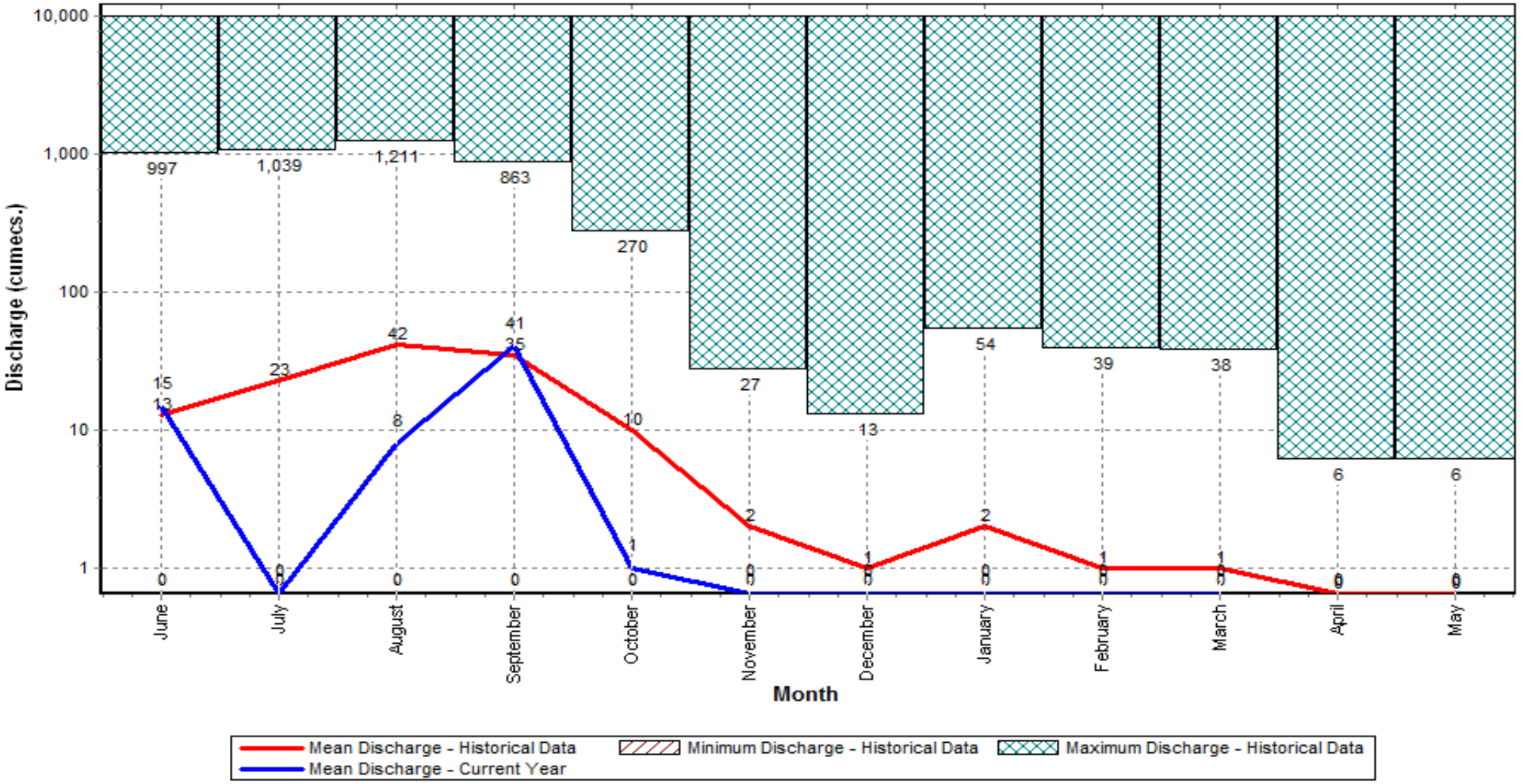
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016

Station Name : MANGRUL (AGH35G0) | **Data considered : 1993-2016** | **Division : Wainganga Div., Nagpur**

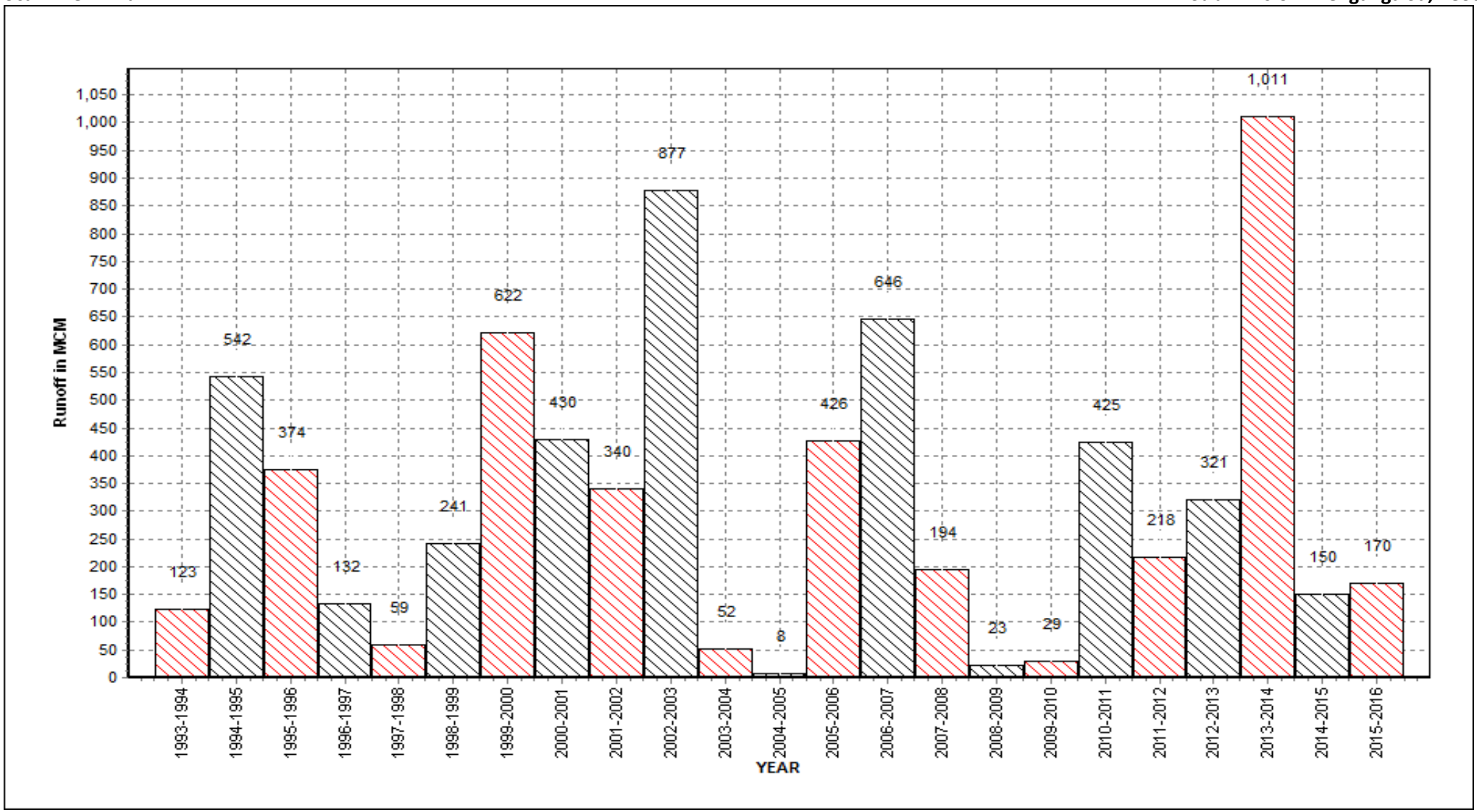
Local River : Aran | **Sub-Division : Penganga Sd, Yeotmal**



Annual Runoff Values for the period: 1993 - 2016

Station Name : MANGRUL (AGH35G0) **Division : Wainganga Div., Nagpur**

Local River : Aran **Sub-Division : Penganga Sd, Yeotmal**

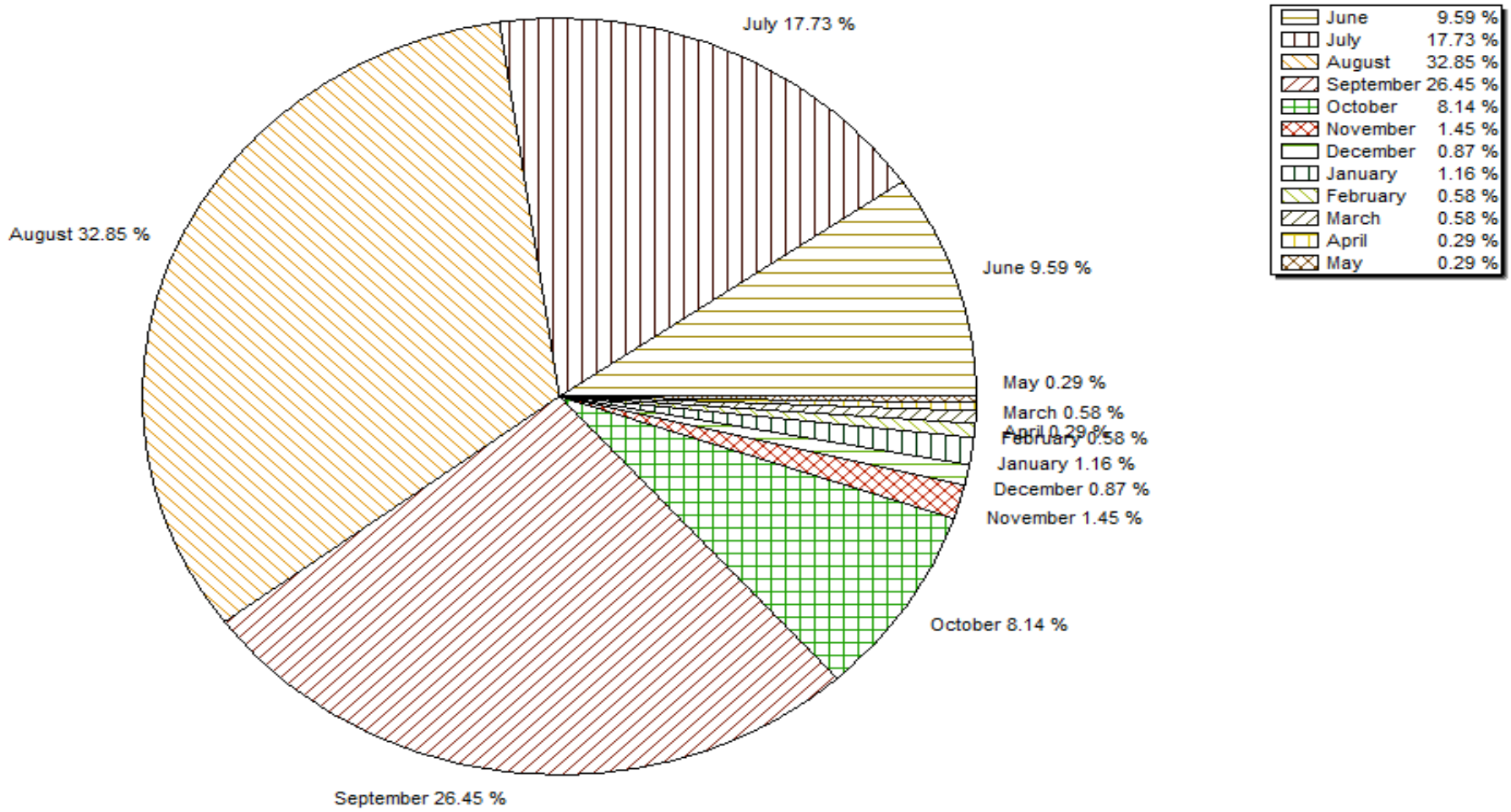


Note: Missing values have not been considered while arriving at Annual Runoff

Monthly Average Runoff based on period : 1993-2015

Station Name : MANGRUL (AGH35G0) **Division : Wainganga Div., Nagpur**

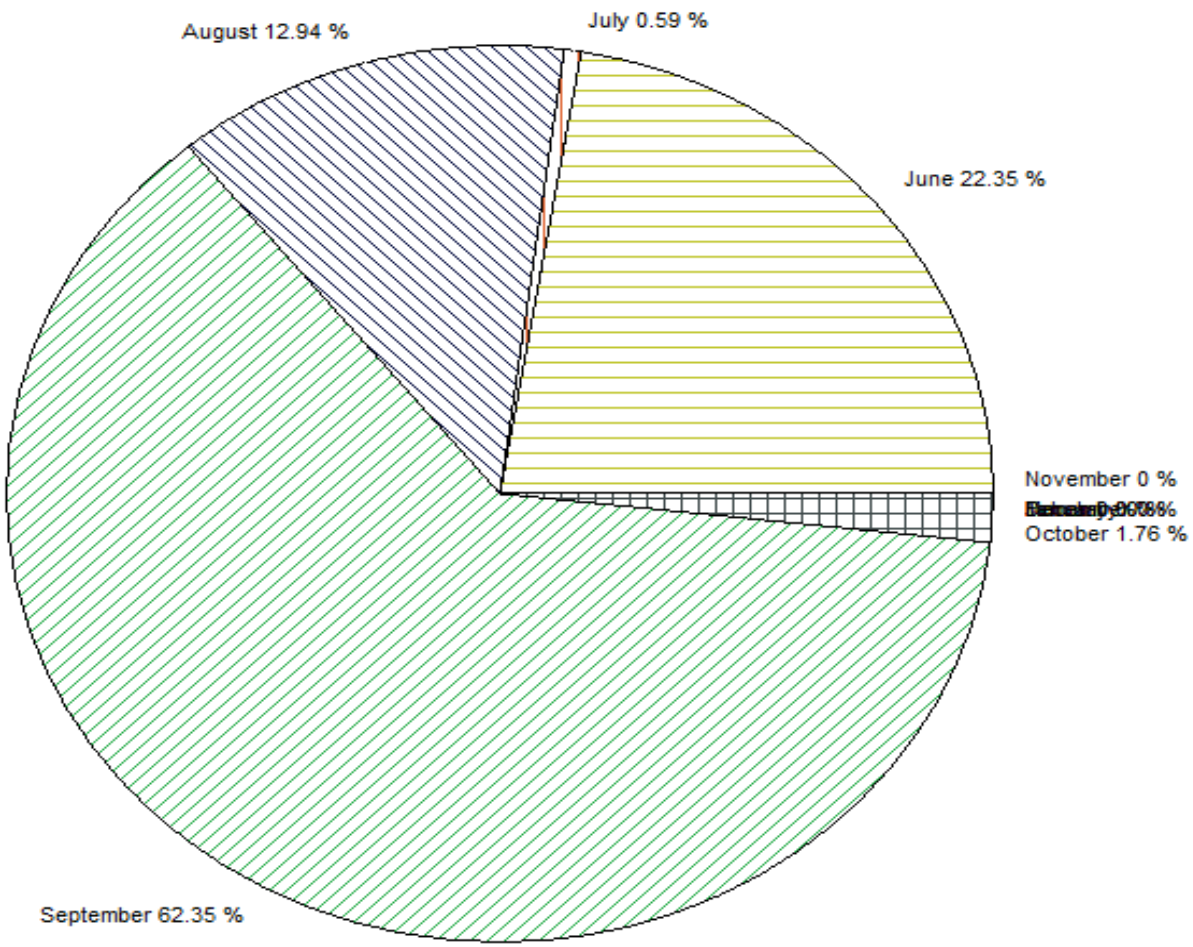
Local River : Aran **Sub-Division : Penganga Sd, Yeotmal**



Monthly Runoff for the Year : 2015-2016

Station Name : MANGRUL (AGH35G0) **Division : Wainganga Div., Nagpur**

Local River : Aran **Sub-Division : Penganga Sd, Yeotmal**

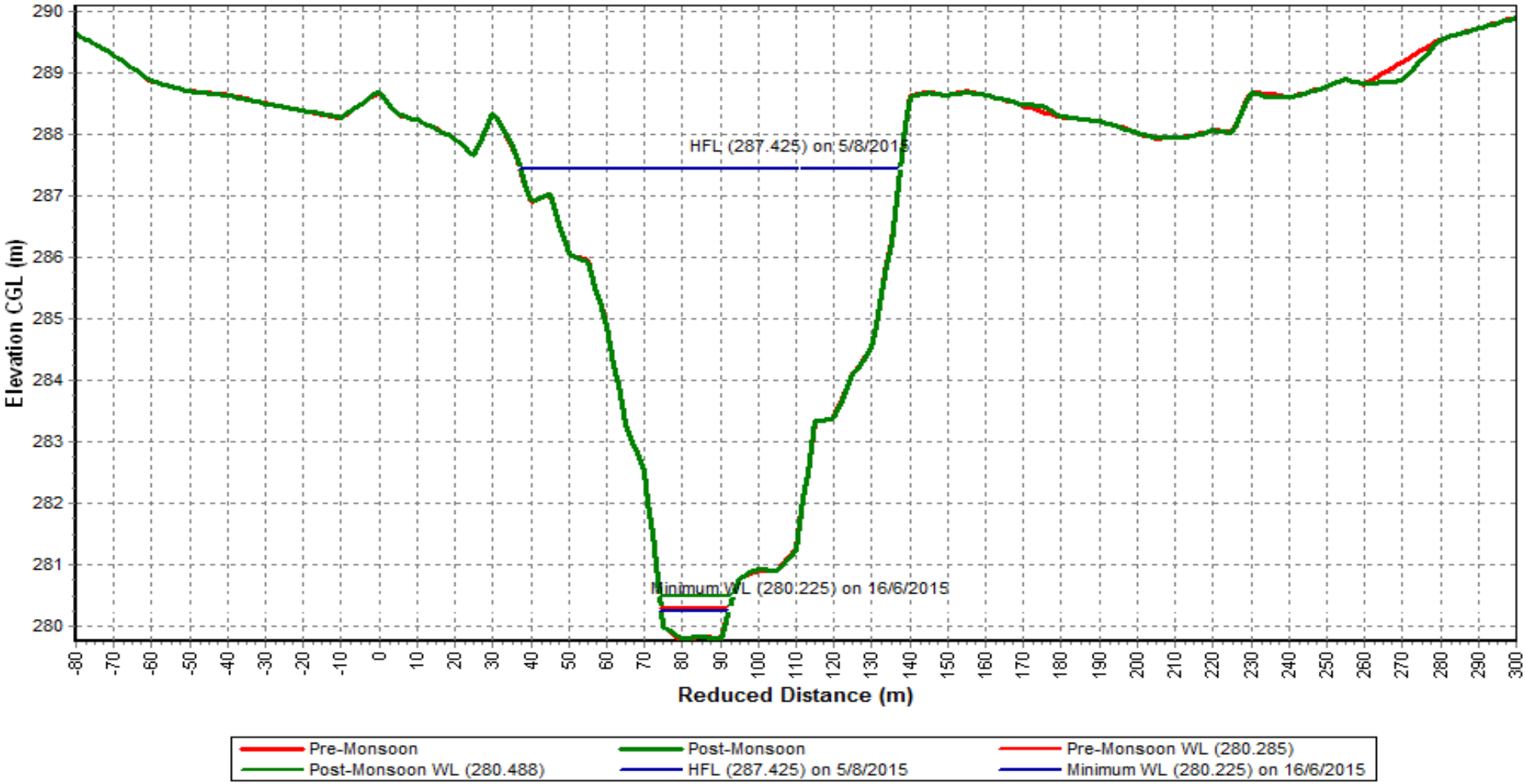


June	22.35 %
July	0.59 %
August	12.94 %
September	62.35 %
October	1.76 %
November	0 %
December	0 %
January	0 %
February	0 %
March	0 %

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

Station Name : MANGRUL (AGH35G0) **Division : Wainganga Div., Nagpur**

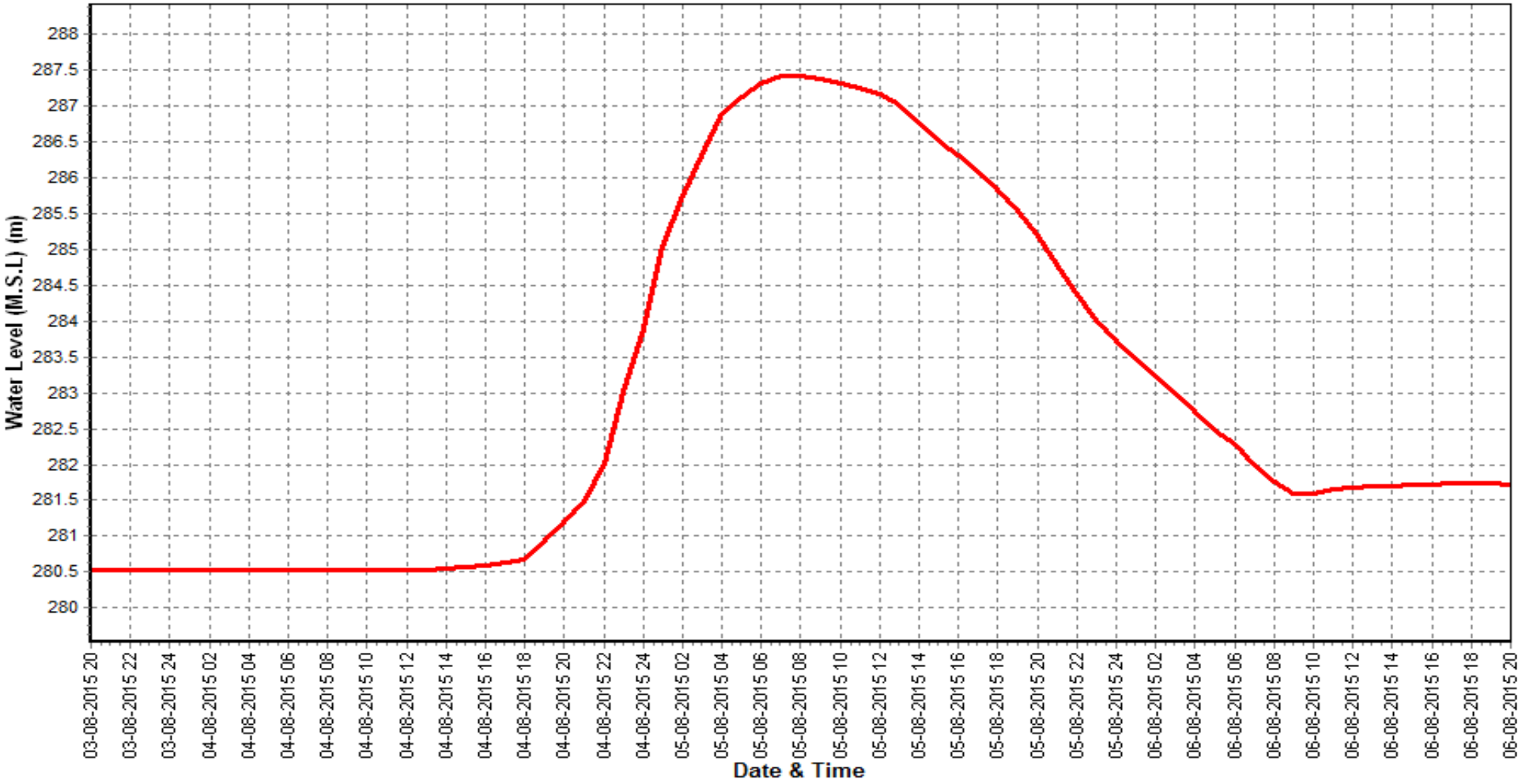
Local River : Aran **Sub-Division : Penganga Sd, Yeotmal**



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

Station Name : MANGRUL (AGH35G0) **Division : Wainganga Div., Nagpur**

Local River : Aran **Sub-Division : Penganga Sd, Yeotmal**

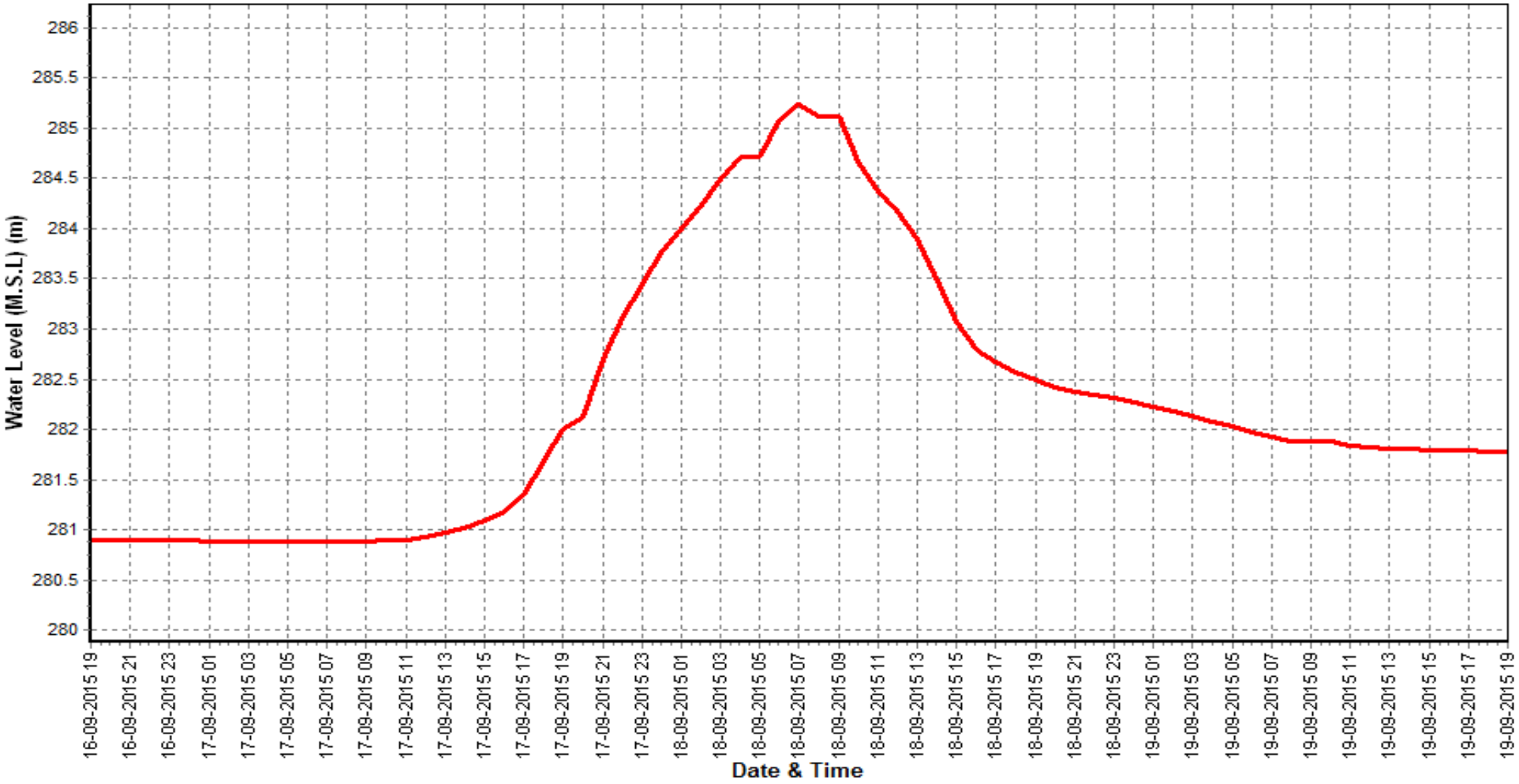


Time Span: 72 Hrs

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

Station Name : MANGRUL (AGH35G0) **Division : Wainganga Div., Nagpur**

Local River : Aran **Sub-Division : Penganga Sd, Yeotmal**

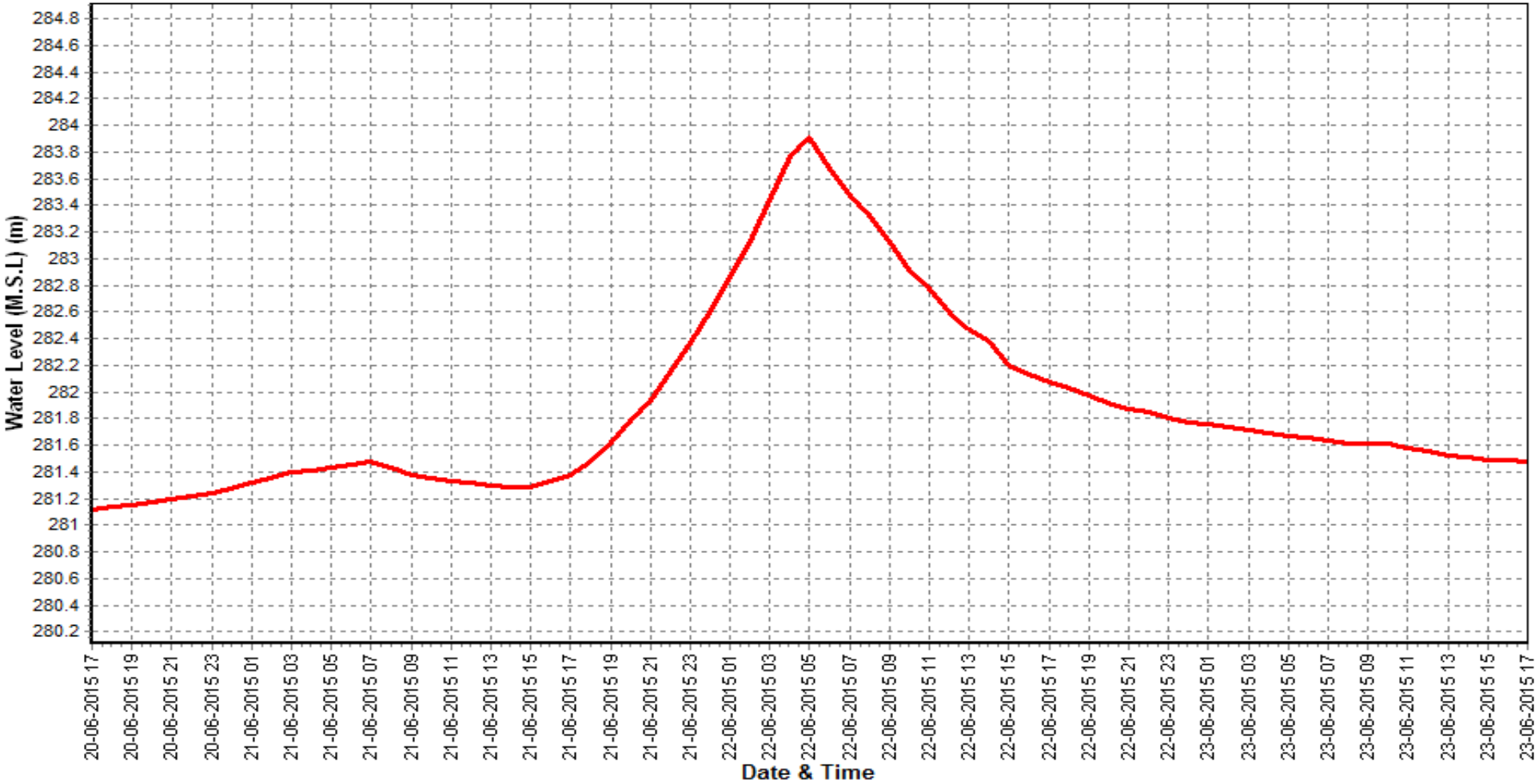


Time Span: 72 Hrs

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

Station Name : MANGRUL (AGH35G0) **Division : Wainganga Div., Nagpur**

Local River : Aran **Sub-Division : Penganga Sd, Yeotmal**



Time Span: 72 Hrs

HISTORY SHEET

			Water Year	:	**2015-2016**
Site	:	**KANERGAON**	**Code**	:	**AGH32R8**
State	:	Maharashtra	District		Hingoli
Basin	:	Godavari	Independent River	:	Godavari
Tributary	:	Pranhita	Sub Tributary	:	Wardha
Sub-Sub Tributary	:	Penganga	Local River	:	Penganga
Division	:	Wainganga Div., Nagpur	Sub-Division	:	Penganga Sd, Yeotmal
Drainage Area	:	3515 Sq. Km.	Bank	:	Right
Latitude	:	19°57'40"	Longitude	:	77°08'53"
Zero of Gauge (m)	:	465 (m.s.l) 465.015 (m.s.l)	01.01.1991 01.06.1996	-	31.05.1996
		Opening Date	Closing Date		
Gauge	:	10.02.1991	**HFL During 2015-16**	:	**468.685**
			Corres. Discharge	:	**650.1771 Cumecs(Estimated)**
Discharge	:	20.07.1992	**Date & Time of**	:	**18.09.2015**
			Occurance	:	**06.00 hrs.**
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**
1992-1993	377.3	470.670	02.09.1992	0.000		10.02.1993
1993-1994	480.2	472.130	19.06.1993	0.000		28.04.1994
1994-1995	619.3	469.508	31.08.1994	0.000		11.02.1995
1995-1996	550.4	471.100	02.09.1995	0.000		27.03.1996
1996-1997	263.9	468.765	08.09.1996	0.000		06.04.1997
1997-1998	292.3	468.215	24.08.1997	0.000		02.05.1998
1998-1999	1885	473.820	11.08.1998	0.000	465.765	23.02.1999
1999-2000	1798	474.615	02.08.1999	0.000	465.675	26.01.2000
2000-2001	961.9	471.095	03.07.2000	0.000		25.01.2001
2001-2002	965.0	472.095	02.10.2001	0.000	465.575	28.01.2002
2002-2003	2316	474.965	02.09.2002	0.000		25.01.2003
2003-2004	160.4	467.310	08.08.2003	0.000		26.01.2004
2004-2005	67.02	466.995	14.06.2004	0.000		25.01.2005
2005-2006	255.9	467.720	04.09.2005	0.000	465.465	23.01.2006
2006-2007	3009	477.345	07.08.2006	0.000		09.02.2007
2007-2008	237.4	467.975	29.09.2007	0.018	465.575	19.12.2007
2008-2009	229.4	467.585	21.09.2008	0.006	465.520	12.11.2008
2009-2010	141.1	467.435	04.09.2009	0.005	465.575	14.10.2009
2010-2011	1215	471.040	31.08.2010	0.000		25.02.2011
2011-2012	377.8	468.725	16.09.2011	0.000	465.195	13.11.2011
2012-2013	168.5	467.125	04.10.2012	0.000		07.04.2013

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**
2013-2014	1398	473.215	24.07.2013	0.000		27.12.2013
2014-2015	547.5	469.100	08.09.2014	0.000	465.115	11.11.2014

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

Stage-Discharge Data for the period 2015 - 2016

Station Name : KANERGAON (AGH32R8) **Division : Wainganga Div., Nagpur**

Local River : Penganga **Sub-Division : Penganga Sd, Yeotmal**

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	465.015	0.000	465.175	0.000	465.105	0.000	465.175	0.000	465.315	3.021	465.135	0.000
2	465.015	0.000	465.570	15.89	465.095	0.000	465.165	0.000	465.305	3.000	465.125	0.000
3	465.015	0.000	465.345	4.047	465.085	0.000	465.155	0.000	465.335	3.203	465.115	0.000
4	465.015	0.000	465.275	1.790	465.105	0.000	465.145	0.000	465.305	3.000	465.115	0.000
5	465.015	0.000	465.245	0.000	466.250	68.22	465.135	0.000	465.295	1.878	465.115	0.000
6	465.015	0.000	465.195	0.000	466.090	53.83	465.125	0.000	465.285	1.740	465.115	0.000
7	465.015	0.000	465.175	0.000	466.040	50.96	465.115	0.000	465.295	1.948	465.105	0.000
8	465.015	0.000	465.165	0.000	465.625	20.45	465.115	0.000	465.295	1.782	465.105	0.000
9	465.015	0.000	465.155	0.000	465.465	8.215 *	465.225	0.000	465.285	1.737	465.105	0.000
10	465.015	0.000	465.145	0.000	465.405	7.035	465.185	0.000	465.275	1.462	465.105	0.000
11	465.015	0.000	465.135	0.000	465.375	4.625 #	465.175	0.000	465.265	0.000	465.085	0.000
12	465.015	0.000	465.125	0.000	466.605	126.9	465.175	0.000	465.245	0.000	465.075	0.000
13	465.015	0.000	465.120	0.000	466.040	49.21	465.165	0.000	465.235	0.000	465.065	0.000
14	466.405	97.22 *	465.110	0.000	465.675	17.12	465.155	0.000	465.225	0.000	465.055	0.000
15	465.835	31.40	465.105	0.000	466.065	54.66 *	465.320	2.308	465.205	0.000	465.045	0.000
16	465.465	7.784	465.095	0.000	465.245	1.196 *	465.460	7.603	465.195	0.000	465.015	0.000
17	465.865	32.43	465.090	0.000	465.615	14.07	465.285	2.035 *	465.185	0.000	465.015	0.000
18	466.155	65.05	465.085	0.000	465.215	0.720 *	468.235	511.8	465.185	0.000	465.015	0.000
19	465.485	8.876	465.085	0.000	465.420	7.217	466.455	120.7	465.175	0.000	465.015	0.000
20	465.365	4.519	465.075	0.000	465.395	5.740	465.405	97.22	465.155	0.000	465.015	0.000
21	465.300	2.384 *	465.075	0.000	465.375	4.630 #	465.580	12.82	465.135	0.000	465.015	0.000
22	465.275	1.956	465.260	1.704	465.365	5.273	465.315	2.963	465.125	0.000	465.015	0.000
23	465.295	2.152	465.185	0.000	465.335	3.352 *	465.375	5.415	465.125	0.000	465.015	0.000
24	465.255	1.384 #	465.175	0.000	465.315	2.789 #	465.355	4.519	465.175	0.000	465.015	0.000
25	465.310	2.213	465.175	0.000	465.255	0.000	465.435	7.603	465.165	0.000	465.015	0.000
26	465.275	1.900	465.145	0.000	465.235	0.000	465.365	5.340	465.155	0.000	465.015	0.000
27	465.245	1.265	465.135	0.000	465.225	0.000	465.365	5.340	465.145	0.000	465.015	0.000
28	465.225	0.845 *	465.135	0.000	465.195	0.000	465.345	4.319	465.145	0.000	465.015	0.000
29	465.205	0.000	465.125	0.000	465.195	0.000	465.325	3.288	465.145	0.000	465.015	0.000
30	465.195	0.000	465.115	0.000	465.185	0.000	465.315	3.080	465.135	0.000	465.015	0.000
31			465.115	0.000	465.175	0.000			465.135	0.000		
n-Daily Mean												
I Ten-Daily			465.244	2.173	465.527	20.87	465.154	0.000	465.299	2.096	465.114	0.000
II Ten-Daily	465.796	35.33	465.103	0.000	465.665	28.14	465.683	71.60	465.207	0.000	465.065	0.000
III Ten-Daily	465.258	1.410	465.149	0.155	465.260	1.459	465.378	5.485	465.144	0.000		
Monthly												
Min.	465.195	0.000	465.075	0.000	465.085	0.000	465.115	0.000	465.125	0.000	465.045	0.000
Max.	466.405	97.22	465.570	15.89	466.605	126.9	468.235	511.8	465.335	3.203	465.135	0.000
Mean	465.480	15.38	465.165	0.756	465.476	16.33	465.405	27.09	465.214	0.645	465.098	0

Annual Runoff in MCM = 128 Annual Runoff in mm = 37

Peak Observed Discharge = 511.8 cumecs on 18-09-2015 Corres. Water Level :468.235 m

Lowest Observed Discharge = 0.000 cumecs on 29-06-2015 Corres. Water Level :465.205 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 : KANERGAON (AGH32R8) **Division : Wainganga Div., Nagpur**

Local River : Penganga **Sub-Division : Penganga Sd, Yeotmal**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	465.135	0.000	465.135	0.000	465.135	0.000	465.135	0.000	465.135	0.000	465.135	0.000
2	465.125	0.000	465.125	0.000	465.125	0.000	465.125	0.000	465.125	0.000	465.125	0.000
3	465.115	0.000	465.115	0.000	465.115	0.000	465.115	0.000	465.115	0.000	465.115	0.000
4	465.115	0.000	465.115	0.000	465.115	0.000	465.115	0.000	465.115	0.000	465.115	0.000
5	465.115	0.000	465.115	0.000	465.115	0.000	465.115	0.000	465.115	0.000	465.115	0.000
6	465.115	0.000	465.115	0.000	465.115	0.000	465.115	0.000	465.115	0.000	465.115	0.000
7	465.105	0.000	465.105	0.000	465.105	0.000	465.105	0.000	465.105	0.000	465.105	0.000
8	465.105	0.000	465.105	0.000	465.105	0.000	465.105	0.000	465.105	0.000	465.105	0.000
9	465.105	0.000	465.105	0.000	465.105	0.000	465.105	0.000	465.105	0.000	465.105	0.000
10	465.105	0.000	465.105	0.000	465.105	0.000	465.105	0.000	465.105	0.000	465.105	0.000
11	465.085	0.000	465.085	0.000	465.085	0.000	465.085	0.000	465.085	0.000	465.085	0.000
12	465.075	0.000	465.075	0.000	465.075	0.000	465.075	0.000	465.075	0.000	465.075	0.000
13	465.065	0.000	465.065	0.000	465.065	0.000	465.065	0.000	465.065	0.000	465.065	0.000
14	465.055	0.000	465.055	0.000	465.055	0.000	465.055	0.000	465.055	0.000	465.055	0.000
15	465.045	0.000	465.045	0.000	465.045	0.000	465.045	0.000	465.045	0.000	465.045	0.000
16	465.015	0.000	465.015	0.000	465.015	0.000	465.015	0.000	465.015	0.000	465.015	0.000
17	465.015	0.000	465.015	0.000	465.015	0.000	465.015	0.000	465.015	0.000	465.015	0.000
18	465.015	0.000	465.015	0.000	465.015	0.000	465.015	0.000	465.015	0.000	465.015	0.000
19	465.015	0.000	465.015	0.000	465.015	0.000	465.015	0.000	465.015	0.000	465.015	0.000
20	465.015	0.000	465.015	0.000	465.015	0.000	465.015	0.000	465.015	0.000	465.015	0.000
21	465.015	0.000	465.015	0.000	465.015	0.000	465.015	0.000	465.015	0.000	465.015	0.000
22	465.015	0.000	465.015	0.000	465.015	0.000	465.015	0.000	465.015	0.000	465.015	0.000
23	465.015	0.000	465.015	0.000	465.015	0.000	465.015	0.000	465.015	0.000	465.015	0.000
24	465.015	0.000	465.015	0.000	465.015	0.000	465.015	0.000	465.015	0.000	465.015	0.000
25	465.015	0.000	465.015	0.000	465.015	0.000	465.015	0.000	465.015	0.000	465.015	0.000
26	465.015	0.000	465.015	0.000	465.015	0.000	465.015	0.000	465.015	0.000	465.015	0.000
27	465.015	0.000	465.015	0.000	465.015	0.000	465.015	0.000	465.015	0.000	465.015	0.000
28	465.015	0.000	465.015	0.000	465.015	0.000	465.015	0.000	465.015	0.000	465.015	0.000
29	465.015	0.000	465.015	0.000	465.015	0.000	465.015	0.000	465.015	0.000	465.015	0.000
30	465.015	0.000	465.015	0.000			465.015	0.000	465.015	0.000	465.015	0.000
31	466.015	0.000	465.015	0.000			465.015	0.000			465.015	0.000
n-Daily Me												
I Ten-Daily	465.015	0.000	465.015	0.000	465.015	0.000	465.015	0.000	465.015	0.000	465.015	0.000
II Ten-Daily	465.015	0.000	465.015	0.000	465.015	0.000	465.015	0.000	465.015	0.000	465.015	0.000
II Ten-Daily	466.015	0.000	466.015	0.000	466.015	0.000	466.015	0.000	466.015	0.000	466.015	0.000
Monthly												
Min.	465.015	0.000	465.015	0.000	465.015	0.000	465.015	0.000	465.015	0.000	465.015	0.000
Max.	465.015	0.000	465.015	0.000	465.015	0.000	465.015	0.000	465.015	0.000	465.015	0.000
Mean	466.015	0.000	466.015	0.000	466.015	0.000	466.015	0.000	466.015	0.000	466.015	0.000

Peak Computed Discharge = 97.22 cumecs on 14-06-2015 Corres. Water Level :466.405 m

Lowest Computed Discharge = 0.720 cumecs on 18-08-2015 Corres. Water Level :465.215 m

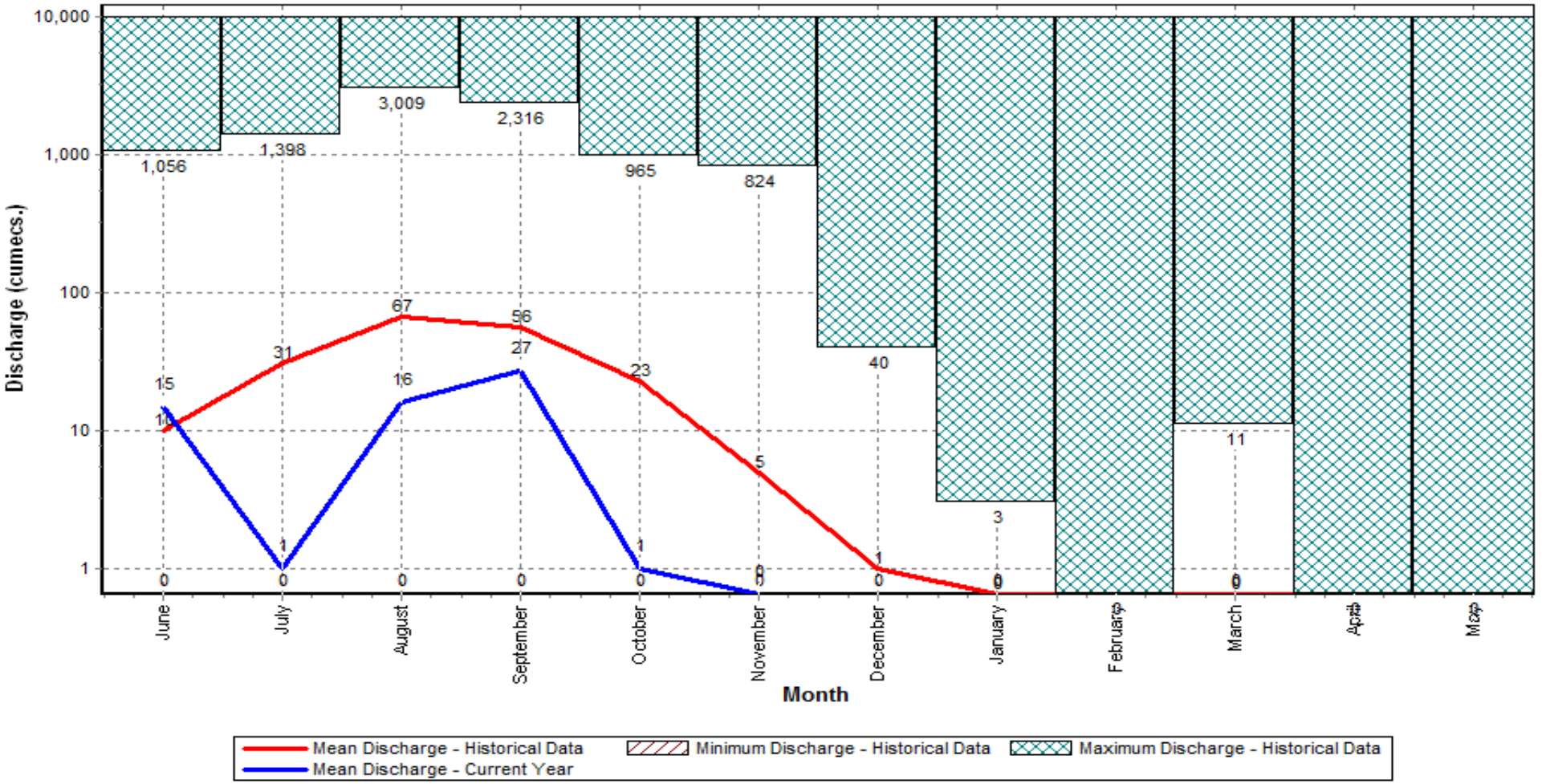
Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016

Station Name : KANERGAON (AGH32R8) | **Data considered : 1992-2016** | **Division : Wainganga Div., Nagpur**

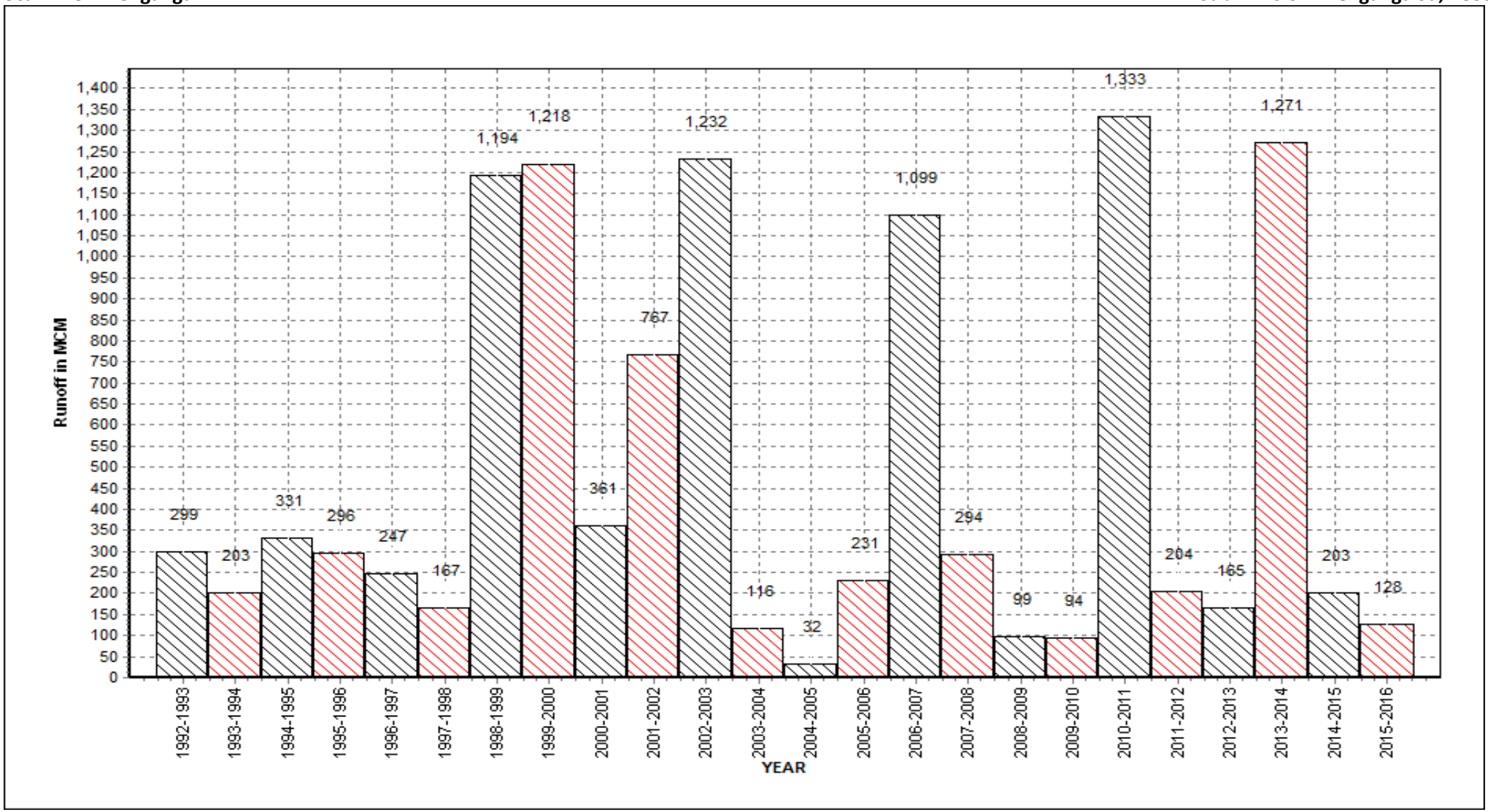
Local River : Penganga | **Sub-Division : Penganga Sd, Yeotmal**



Annual Runoff Values for the period: 1992 - 2016

Station Name : KANERGAON (AGH32R8) **Division : Wainganga Div., Nagpur**

Local River : Penganga **Sub-Division : Penganga Sd, Yeotmal**



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

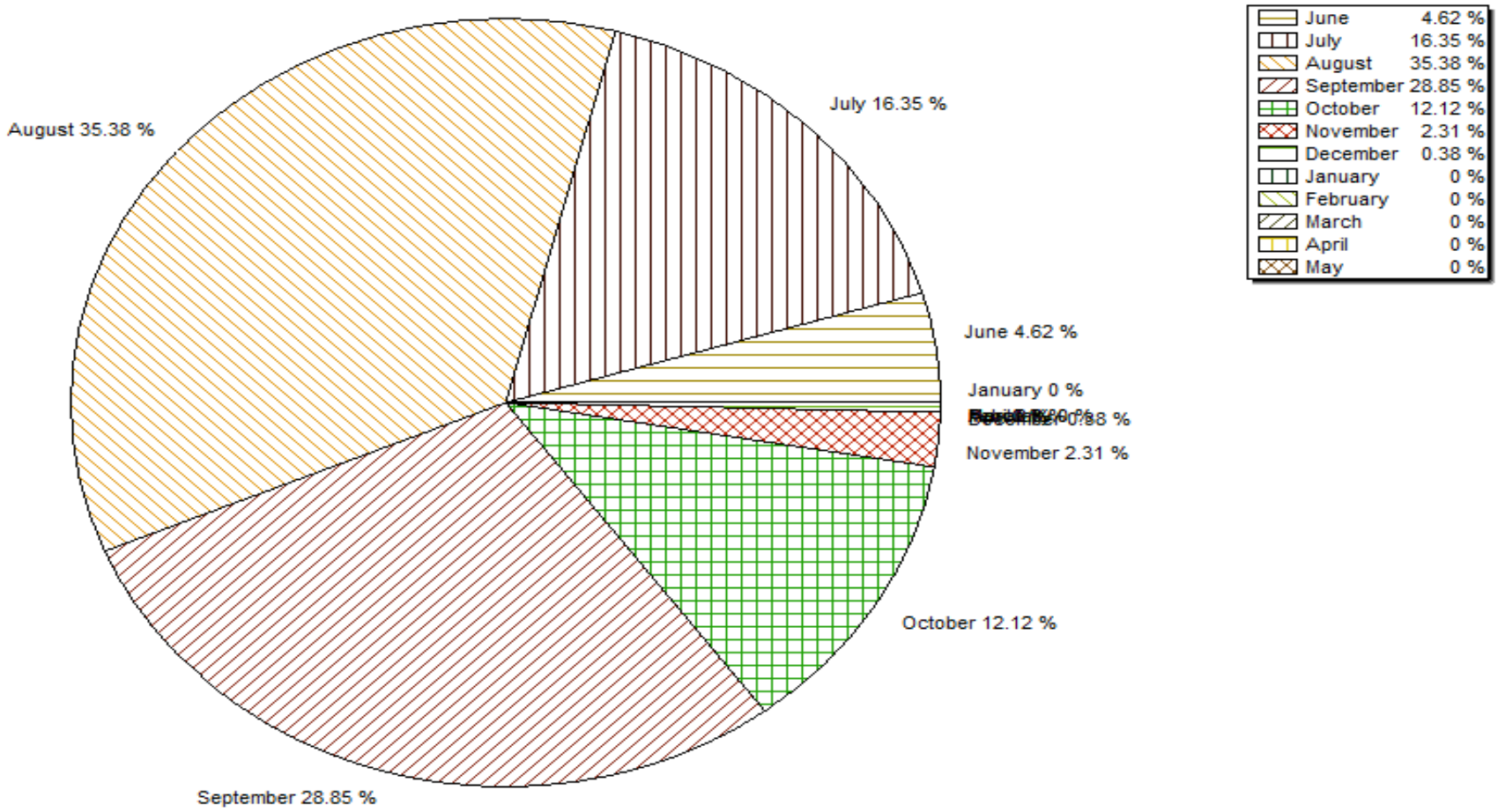
Monthly Average Runoff based on period : 1992-2015

Station Name : KANERGAON (AGH32R8)

Division : Wainganga Div., Nagpur

Local River : Penganga

Sub-Division : Penganga Sd, Yeotmal



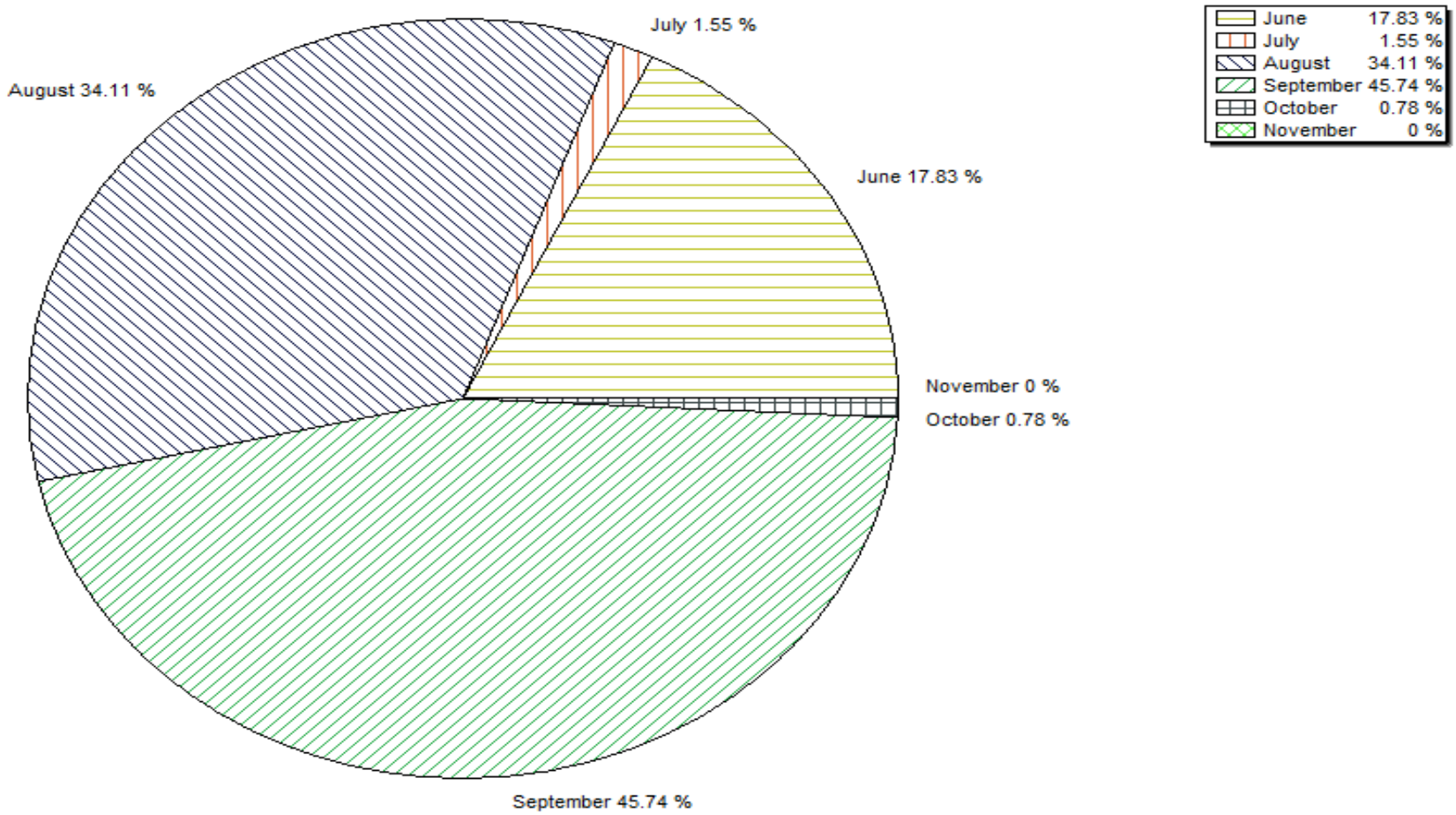
Monthly Runoff for the Year : 2015-2016

Station Name : KANERGAON (AGH32R8)

Local River : Penganga

Division : Wainganga Div., Nagpur

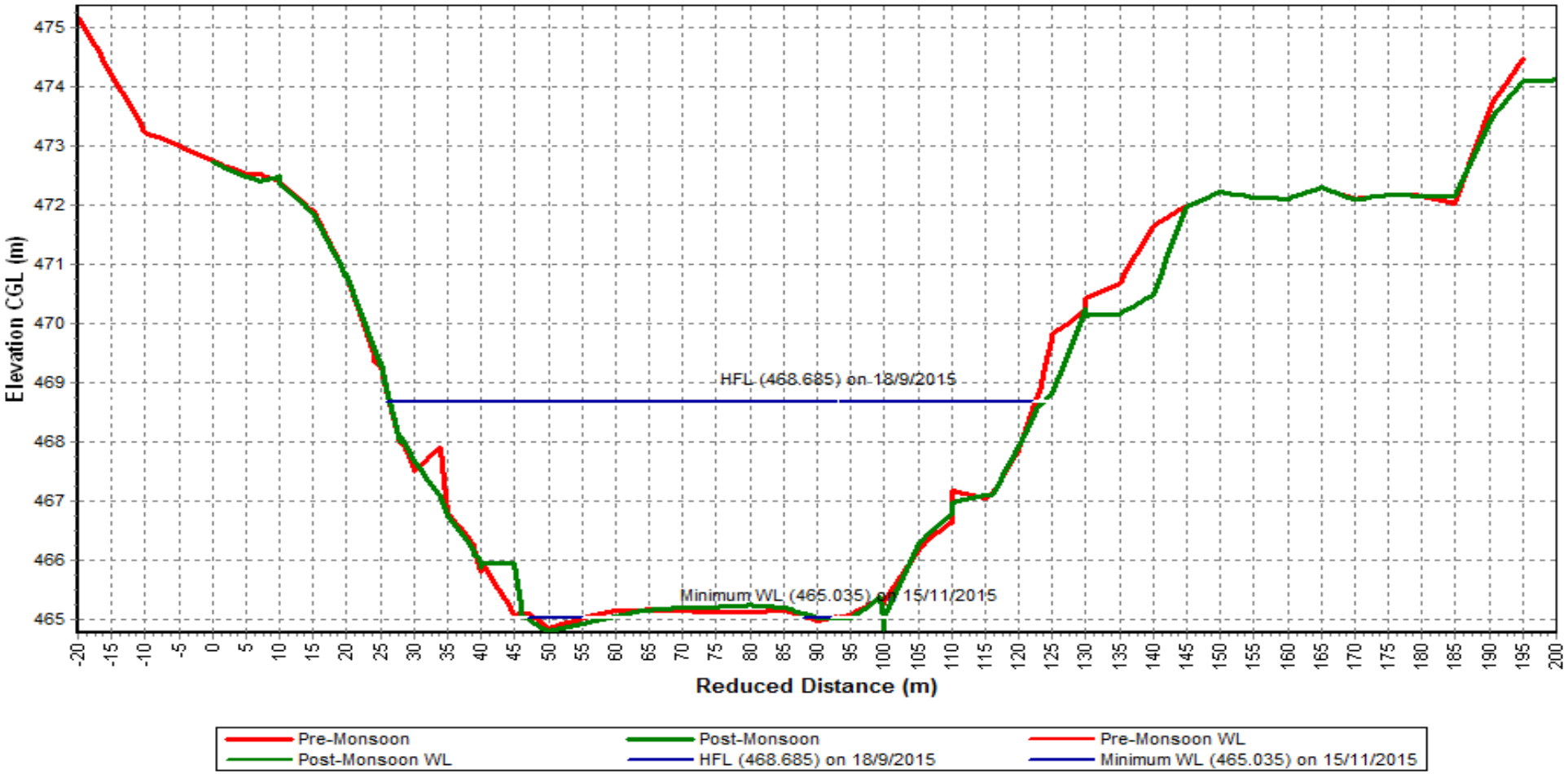
Sub-Division : Penganga Sd, Yeotmal



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

Station Name : KANERGAON (AGH32R8) **Division : Wainganga Div., Nagpur**

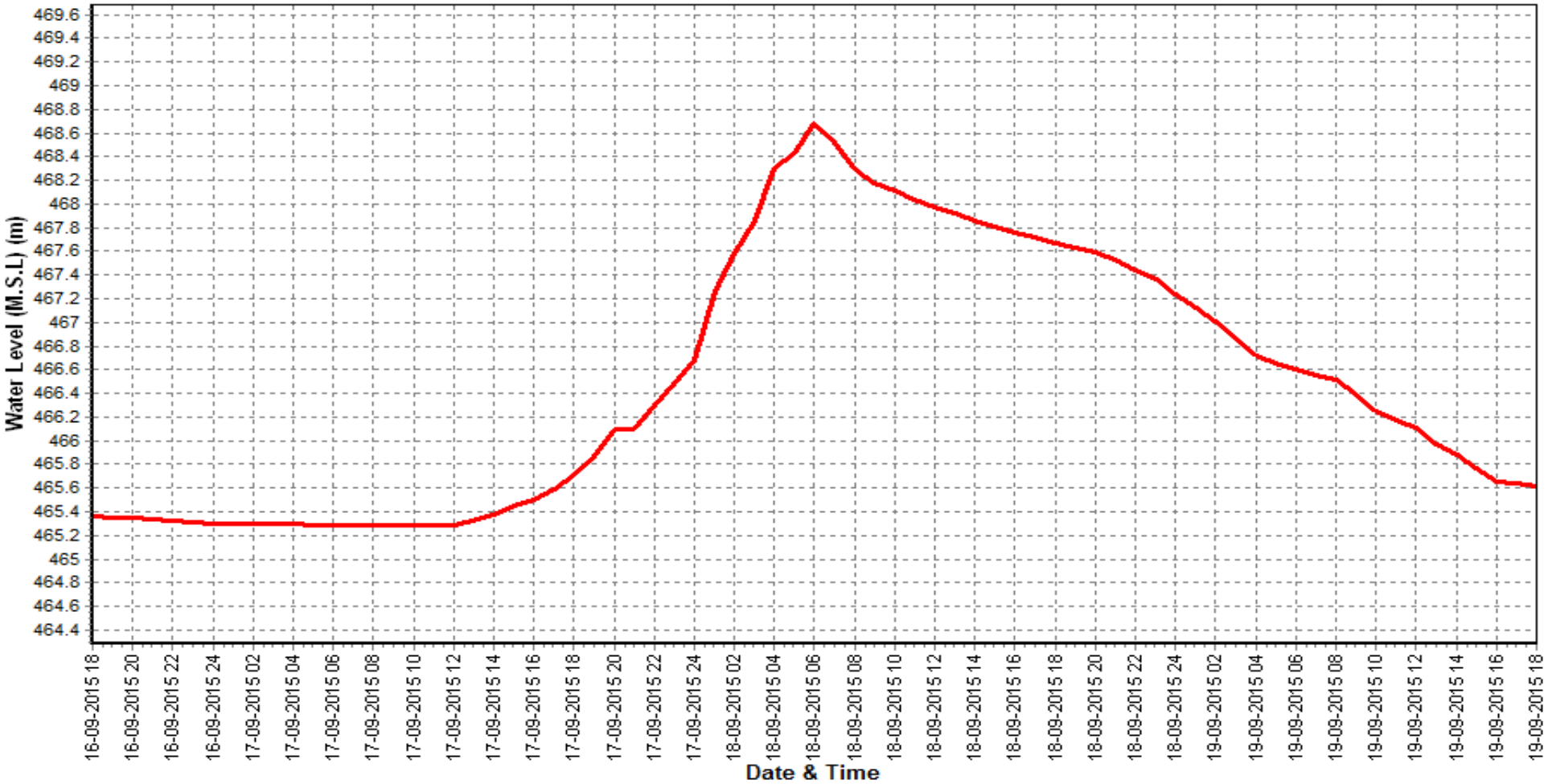
Local River : Penganga **Sub-Division : Penganga Sd, Yeotmal**



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

Station Name : KANERGAON (AGH32R8) **Division : Wainganga Div., Nagpur**

Local River : Penganga **Sub-Division : Penganga Sd, Yeotmal**

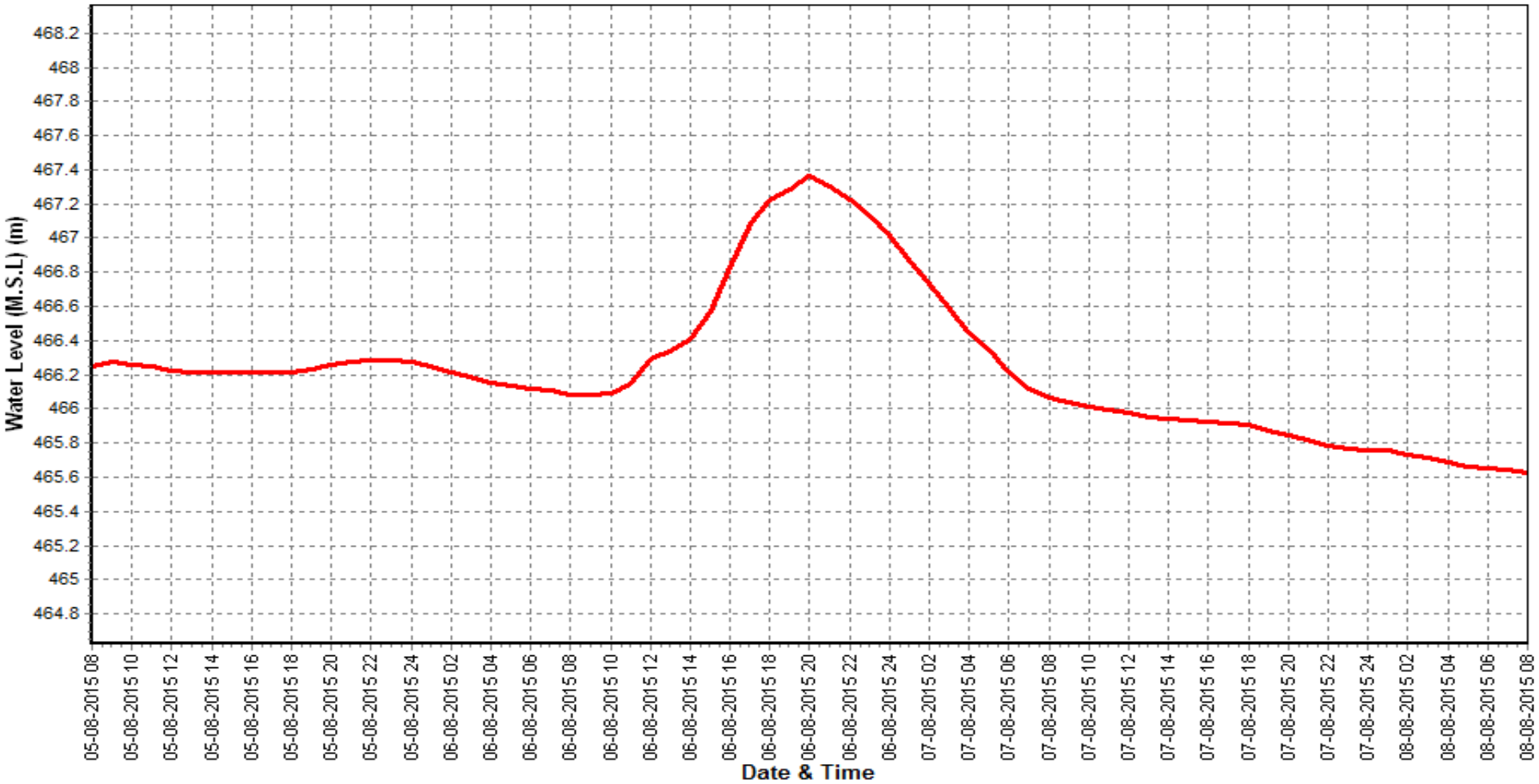


Time Span: 72 Hrs

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

Station Name : KANERGAON (AGH32R8) **Division : Wainganga Div., Nagpur**

Local River : Penganga **Sub-Division : Penganga Sd, Yeotmal**

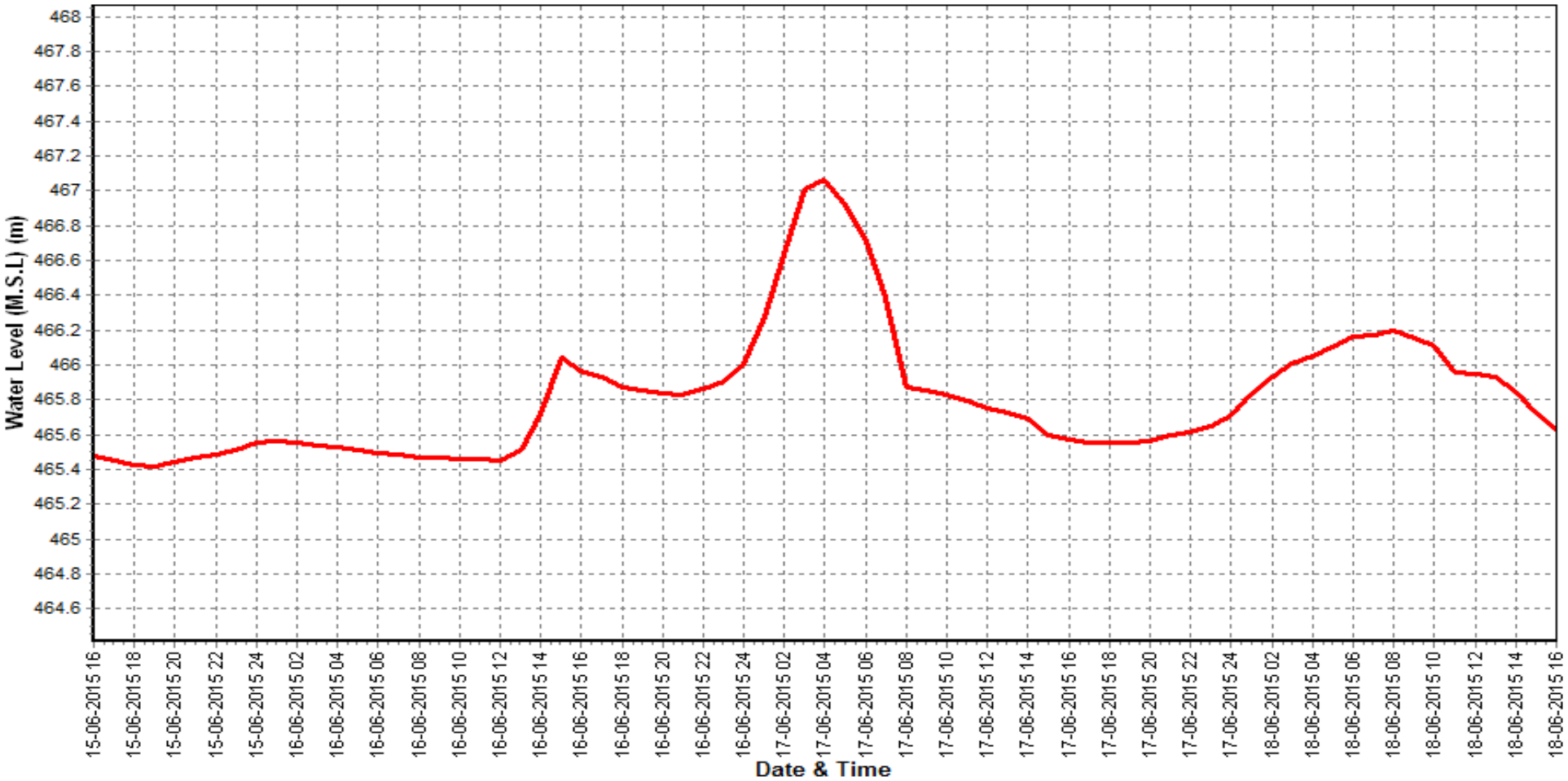


Time Span: 72 Hrs

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

Station Name : KANERGAON (AGH32R8) **Division : Wainganga Div., Nagpur**

Local River : Penganga **Sub-Division : Penganga Sd, Yeotmal**



Time Span: 72 Hrs

HISTORY SHEET

			Water Year	:	**2015-2016**
Site	:	**NANDGAON**	**Code**	:	**AGH3AF4**
State	:	Maharashtra	District		Wardha
Basin	:	Godavari	Independent River	:	Godavari
Tributary	:	Pranhita	Sub Tributary	:	Wardha
Sub-Sub Tributary	:	Wunna	Local River	:	Wunna
Division	:	Wainganga Div., Nagpur	Sub-Division	:	Penganga Sd, Yeotmal
Drainage Area	:	4580 Sq. Km.	Bank	:	Left
Latitude	:	20°32'00"	Longitude	:	78°49'33"
Zero of Gauge (m)	:	198 (m.s.l)	28.10.1985		
		Opening Date	Closing Date		
Gauge	:	28.10.1985	**HFL During 2015-16**	:	**208.440**
			Corres. Discharge	:	**1661.732 Cumecs(Estimated)**
Discharge	:	21.07.1986	**Date & Time of**	:	**14.08.2015**
			Occurance	:	**07.00 hrs.**
Sediment	:	13.07.1988			
Water Quality	:	01.01.1988			

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

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1986-1987	2505	211.100	14.08.1986	0.000		05.06.1986
1987-1988	68.30	202.270	29.08.1987	0.000		14.04.1988
1988-1989	624.0	208.375	07.09.1988	0.000	0.000	09.05.1989
1989-1990	478.1	205.425	01.09.1989	0.000		26.04.1990
1990-1991	3035	211.590	23.08.1990	0.000	0.000	04.05.1991
1991-1992	1883	209.175	16.08.1991	0.000	200.450	15.04.1992
1992-1993	2153	209.345	21.08.1992	0.000	200.455	13.05.1993
1993-1994	342.3	204.255	29.07.1993	0.000		06.05.1994
1994-1995	3205	212.550	13.07.1994	0.000	200.560	11.05.1995
1995-1996	1208	208.700	02.09.1995	0.000	200.580	13.06.1995
1996-1997	157.7	202.985	17.08.1996	0.000	200.390	30.05.1997
1997-1998	164.8	203.115	23.08.1997	0.000	200.380	14.06.1997
1998-1999	349.0	204.250	08.09.1998	0.140	200.785	06.06.1998
1999-2000	2522	211.270	10.08.1999	0.179	200.470	10.05.2000
2000-2001	2509	210.610	19.07.2000	0.318	200.560	05.05.2001
2001-2002	1094	206.850	14.06.2001	0.000	200.600	26.05.2002
2002-2003	2346	209.750	25.06.2002	0.000	200.610	23.04.2003
2003-2004	621.1	204.385	23.08.2003	0.000	200.520	14.06.2003
2004-2005	456.9	203.665	05.08.2004	0.000	200.560	10.06.2004
2005-2006	1287	207.650	15.09.2005	0.000	200.610	09.06.2005
2006-2007	788.6	205.215	07.09.2006	0.406	200.640	26.04.2007
2007-2008	3567	210.720	08.08.2007	0.186	200.490	18.05.2008

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**
2008-2009	597.4	204.615	29.07.2008	0.048	200.370	27.05.2009
2009-2010	404.3	203.735	01.09.2009	0.061	200.480	07.11.2009
2010-2011	3634	209.110	31.08.2010	0.000	200.590	18.05.2011
2011-2012	1454	207.660	02.09.2011	0.000	200.470	27.04.2012
2012-2013	1728	207.880	20.08.2012	0.000		19.05.2013
2013-2014	1949	211.270	20.07.2013	0.000	200.320	24.04.2014
2014-2015	1137	208.300	23.07.2014	0.000	200.380	20.03.2015

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

Stage-Discharge Data for the period 2015 - 2016

Station Name : NANDGAON (AGH3AF4) **Division : Wainganga Div., Nagpur**

Local River : Wunna **Sub-Division : Penganga Sd, Yeotmal**

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	198.000	0.000	200.360	3.301	200.560	9.713 #	202.455	165.7	200.520	9.578	200.680	13.84 *
2	198.000	0.000	200.350	4.209 #	200.540	9.094 *	201.140	36.69	200.490	7.634 *	200.690	16.05
3	198.000	0.000	200.290	0.000	200.480	7.357 #	200.950	21.14	200.460	8.340	200.690	16.05
4	198.000	0.000	200.280	0.000	200.530	8.793 #	200.885	17.83	200.450	6.555 *	200.690	15.77
5	198.000	0.000	200.270	0.000	204.760	550.4 *	200.770	16.22	200.430	6.984	200.690	14.69
6	198.000	0.000	200.270	0.000	202.610	134.0	200.710	14.98 *	200.390	5.899	200.730	16.53
7	198.000	0.000	200.270	0.000	201.790	92.10	200.660	10.40	200.370	5.487	200.730	15.69
8	198.000	0.000	200.280	0.000	203.460	289.7	200.630	10.13	200.350	4.825	200.730	15.77 *
9	198.000	0.000	200.280	0.000	201.460	57.54 *	200.780	14.85	200.320	3.670	200.720	14.68
10	198.000	0.000	200.280	0.000	201.330	58.78	200.880	18.79	200.300	3.013	200.710	14.43
11	198.000	0.000	200.270	0.000	201.145	43.44	200.770	14.62	200.280	2.866 *	200.690	14.21 *
12	198.000	0.000	200.270	0.000	204.070	382.3	200.655	11.10	200.280	3.304	200.650	11.81
13	200.230	0.000	200.270	0.000	202.795	201.8	200.600	11.01 *	200.305	3.651	200.650	11.57
14	200.240	0.000	200.270	0.000	208.440	1662 *	200.560	7.448	200.345	4.447	200.650	11.39
15	200.230	0.000	200.270	0.000	201.950	99.61 *	201.005	25.94	200.370	5.202	200.650	12.74 *
16	200.230	0.000	200.270	0.000	201.520	62.09 *	200.830	17.13	200.390	5.712	200.660	12.13
17	200.240	0.000	200.260	0.000	201.380	59.90	200.970	26.70 *	200.460	7.808	200.630	11.29
18	200.550	0.000	200.260	0.000	201.275	46.50	205.650	765.8 *	200.480	7.357 *	200.600	10.84
19	200.240	0.000	200.260	0.000	201.160	44.95	203.925	398.9	200.500	9.313	200.580	10.19
20	200.300	0.000	200.260	0.000	201.220	46.03	201.520	62.09 *	200.520	9.478	200.580	9.949
21	200.970	26.70 *	200.270	0.000	201.400	65.97	201.260	50.63	200.550	11.27	200.510	7.476
22	201.220	50.64	200.270	0.000	201.120	34.93 #	201.280	53.82	200.570	10.03 *	200.460	6.818 *
23	201.195	47.31	200.855	17.67	200.910	23.71 *	201.150	41.71	200.590	11.98	200.420	5.422
24	200.775	17.30	200.950	24.19	200.885	24.95	201.075	35.62	200.590	10.68 *	200.410	5.165
25	200.595	10.16	201.730	76.09	200.910	20.67	200.810	19.10 *	200.600	11.01 *	200.390	5.087 *
26	200.500	6.901	201.670	74.21 *	200.865	18.63	200.745	18.48	200.590	11.54	200.360	4.129
27	200.455	4.967	200.940	25.18 #	200.845	18.57	200.700	14.59 *	200.570	11.57	200.350	3.906
28	200.420	5.799 *	200.770	17.39 #	200.830	17.44	200.640	14.35	200.560	10.85	200.320	3.327
29	200.450	6.334	200.680	11.22	200.905	18.48	200.600	12.88	200.560	11.21	200.300	3.224 *
30	200.390	4.763	200.650	10.41	200.890	22.75 *	200.570	10.97	200.630	12.22	200.290	3.243
31			200.590	9.802	201.025	24.57			200.650	14.63		
-Daily Mean												
Ten-Dai	198.000	0.000	200.293	0.751	201.752	121.8	200.986	32.67	200.408	6.198	200.706	15.35
Ten-Dai	200.283	0.000	200.266	0.000	202.496	264.8	201.649	134.1	200.393	5.914	200.634	11.61
Ten-Da	200.697	18.09	200.852	24.20	200.962	26.42	200.883	27.22	200.587	11.54	200.381	4.780
Monthly												
Min.	200.230	0.000	200.260	0.000	200.480	7.357	200.560	7.448	200.280	2.866	200.290	3.224
Max.	201.220	50.64	201.730	76.09	208.440	1662	205.650	765.8	200.650	14.63	200.730	16.53
Mean	200.513	10.05	200.483	8.828	201.712	134.1	201.173	64.66	200.467	8.003	200.574	10.58

Annual Runoff in MCM = 683 Annual Runoff in mm = 149

Peak Observed Discharge = 398.9 cumecs on 19/09/2015 Corres. Water Level :203.925 m

Lowest Observed Discharge = 0.000 cumecs on 13/06/2015 Corres. Water Level :200.23 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 : NANDGAON (AGH3AF4) **Division : Wainganga Div., Nagpur**

Local River : Wunna **Sub-Division : Penganga Sd, Yeotmal**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	200.290	1.363 #	200.370	2.335	200.530	8.540	200.360	3.103	199.980	0.000	198.000	0.000
2	200.320	1.774 #	200.340	2.084 #	200.460	6.454	200.420	5.120	199.970	0.000	198.000	0.000
3	200.520	6.362 #	200.310	1.629 *	200.400	4.448	200.370	4.065	199.960	0.000	198.000	0.000
4	200.530	8.200	200.270	1.085	200.360	3.622	200.320	2.681	199.960	0.000	198.000	0.000
5	200.570	9.493	200.260	1.077	200.320	3.328	200.280	2.478	199.960	0.000	198.000	0.000
6	200.620	10.04 *	200.240	0.817 #	200.310	2.873	200.250	1.854 *	199.950	0.000	198.000	0.000
7	200.650	11.34 #	200.270	1.260	200.310	2.803 *	200.220	1.610	199.950	0.000	198.000	0.000
8	200.650	12.58	200.340	1.752	200.300	2.593	200.170	1.093	199.950	0.000	198.000	0.000
9	200.660	12.38	200.400	3.203 #	200.320	3.051	200.130	0.000	199.940	0.000	198.000	0.000
10	200.680	13.21	200.440	4.114 *	200.350	3.401	200.050	0.000	199.940	0.000	198.000	0.000
11	200.680	13.27	200.480	5.527	200.360	3.488	200.030	0.000	199.940	0.000	198.000	0.000
12	200.680	13.35	200.470	5.085	200.360	3.262	200.010	0.000	199.940	0.000	198.000	0.000
13	200.690	13.23 *	200.520	6.995	200.360	3.364	200.010	0.000	199.930	0.000	198.000	0.000
14	200.700	13.71	200.610	10.11	200.410	4.931 *	200.010	0.000	199.920	0.000	199.900	0.000
15	200.710	13.99	200.640	10.43	200.480	7.920	200.030	0.000	199.920	0.000	200.000	0.000
16	200.700	13.52	200.630	10.26	200.540	10.17	200.040	0.000	199.920	0.000	200.000	0.000
17	200.710	13.80	200.640	10.89 *	200.570	10.59	200.060	0.000	199.910	0.000	199.980	0.000
18	200.710	13.84	200.670	11.80	200.570	9.919	200.030	0.000	199.900	0.000	199.950	0.000
19	200.720	13.80	200.700	12.81	200.560	9.626	200.020	0.000	199.910	0.000	199.930	0.000
20	200.730	15.29 *	200.710	13.74	200.550	9.375	200.030	0.000	199.910	0.000	199.940	0.000
21	200.730	14.75	200.690	14.45	200.550	9.181 *	200.010	0.000	199.920	0.000	199.930	0.000
22	200.730	14.17	200.680	13.97	200.550	9.098	200.010	0.000	199.910	0.000	199.930	0.000
23	200.720	13.71	200.660	12.74	200.550	9.068	200.020	0.000	199.920	0.000	199.930	0.000
24	200.690	13.23 *	200.660	11.79 *	200.550	9.383	200.020	0.000	199.910	0.000	199.920	0.000
25	200.680	12.74 *	200.660	11.87	200.550	9.336	200.010	0.000	199.910	0.000	199.920	0.000
26	200.660	10.81	200.650	11.34 *	200.520	8.352	200.010	0.000	199.900	0.000	198.000	0.000
27	200.650	11.34 *	200.650	11.46	200.440	5.618	200.010	0.000	198.000	0.000	198.000	0.000
28	200.650	9.564	200.640	10.95	200.380	4.217 *	200.010	0.000	198.000	0.000	198.000	0.000
29	200.570	7.438	200.640	10.93	200.330	2.790	200.010	0.000	198.000	0.000	198.000	0.000
30	200.480	4.359	200.600	10.45			200.000	0.000	198.000	0.000	198.000	0.000
31	200.410	3.102	200.570	9.920 *			200.000	0.000			198.000	0.000
-Daily M												
Ten-Dai	200.549	8.674	200.324	1.936	200.366	4.111	200.257	2.200	199.956	0.000	198.000	0.000
Ten-Dai	200.703	13.78	200.607	9.766	200.476	7.265	200.027	0.000	199.920	0.000	199.957	0.000
Ten-Da	200.634	10.47	200.645	11.81	200.491	7.449	200.010	0.000	199.912	0.000	199.926	0.000
Monthly												
Min.	200.290	1.363	200.240	0.817	200.300	2.593	200.000	0.000	199.900	0.000	199.900	0.000
Max.	200.730	15.29	200.710	14.45	200.570	10.59	200.420	5.120	199.980	0.000	200.000	0.000
Mean	200.629	10.96	200.529	7.964	200.443	6.235	200.095	0.71	199.932	0	199.944	0

Peak Computed Discharge = 1662 cumecs on 14/08/2015 **Corres. Water Level :208.44 m**

Lowest Computed Discharge = 1.629 cumecs on 03/01/2016 **Corres. Water Level :200.31 m**

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

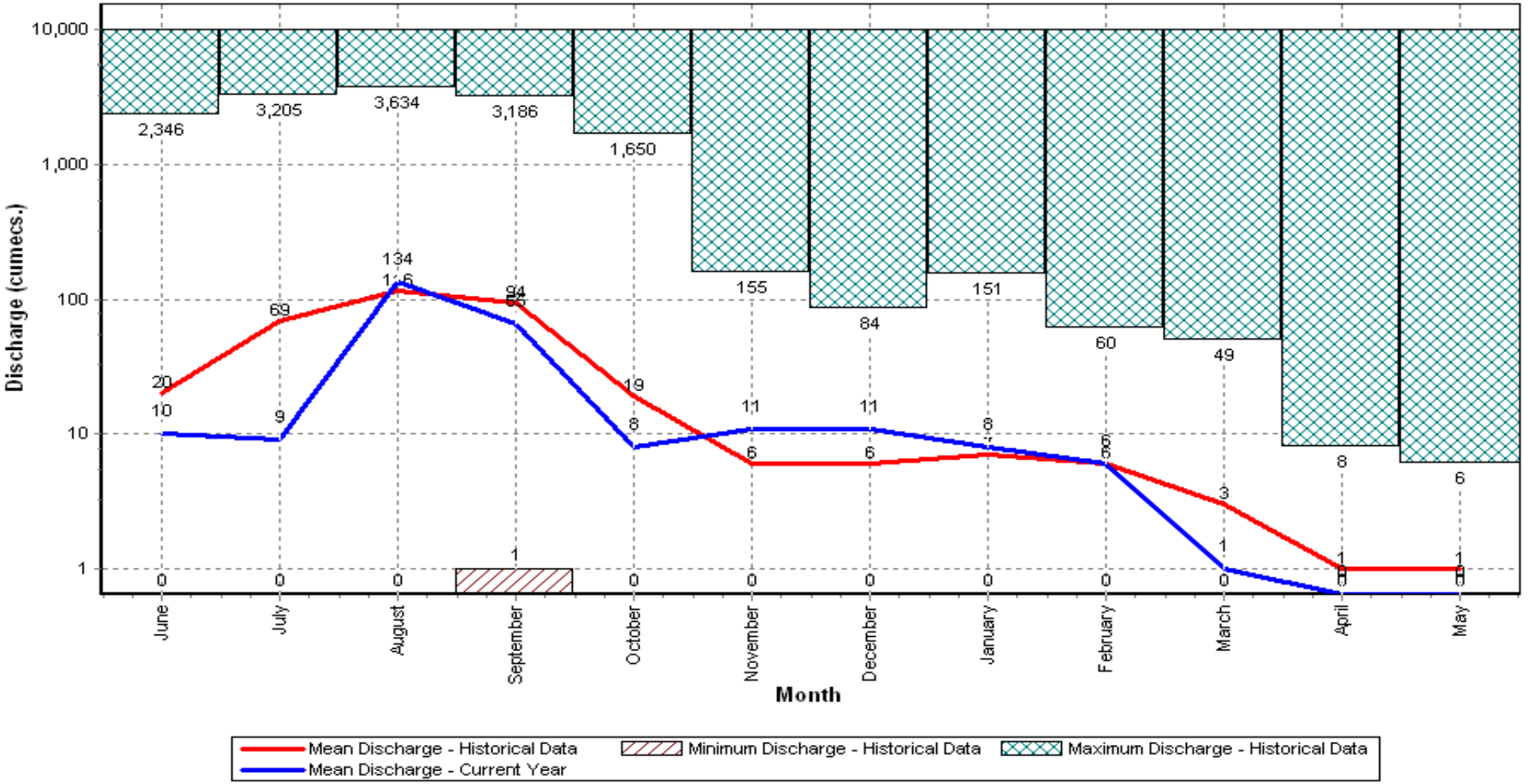
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016

Station Name : NANDGAON (AGH3AF4) | **Data considered : 1986-2016** | **Division : Wainganga Div., Nagpur**

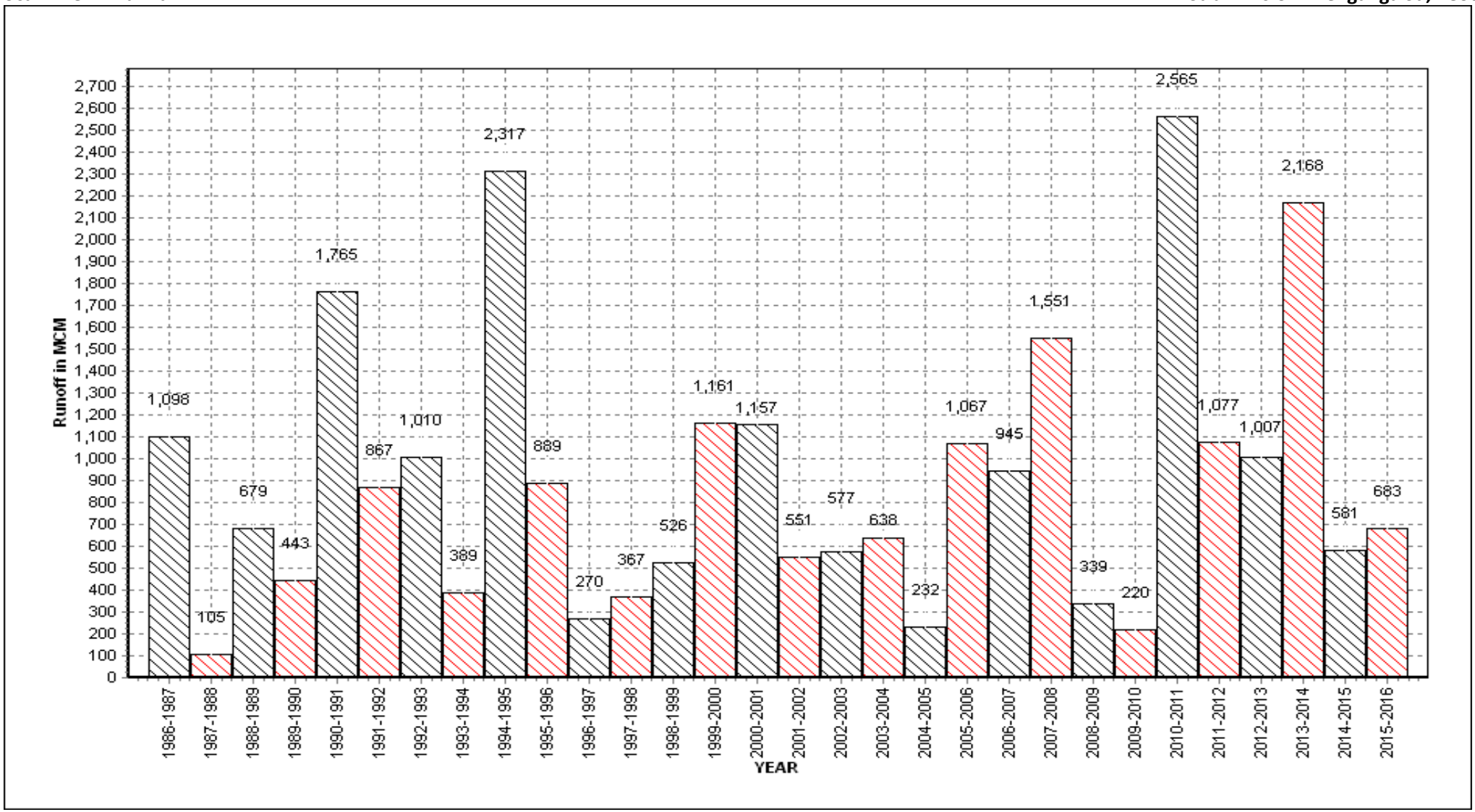
Local River : Wunna | **Sub-Division : Penganga Sd, Yeotmal**



Annual Runoff Values for the period: 1986 - 2016

Station Name : NANDGAON (AGH3AF4) **Division : Wainganga Div., Nagpur**

Local River : Wunna **Sub-Division : Penganga Sd, Yeotmal**

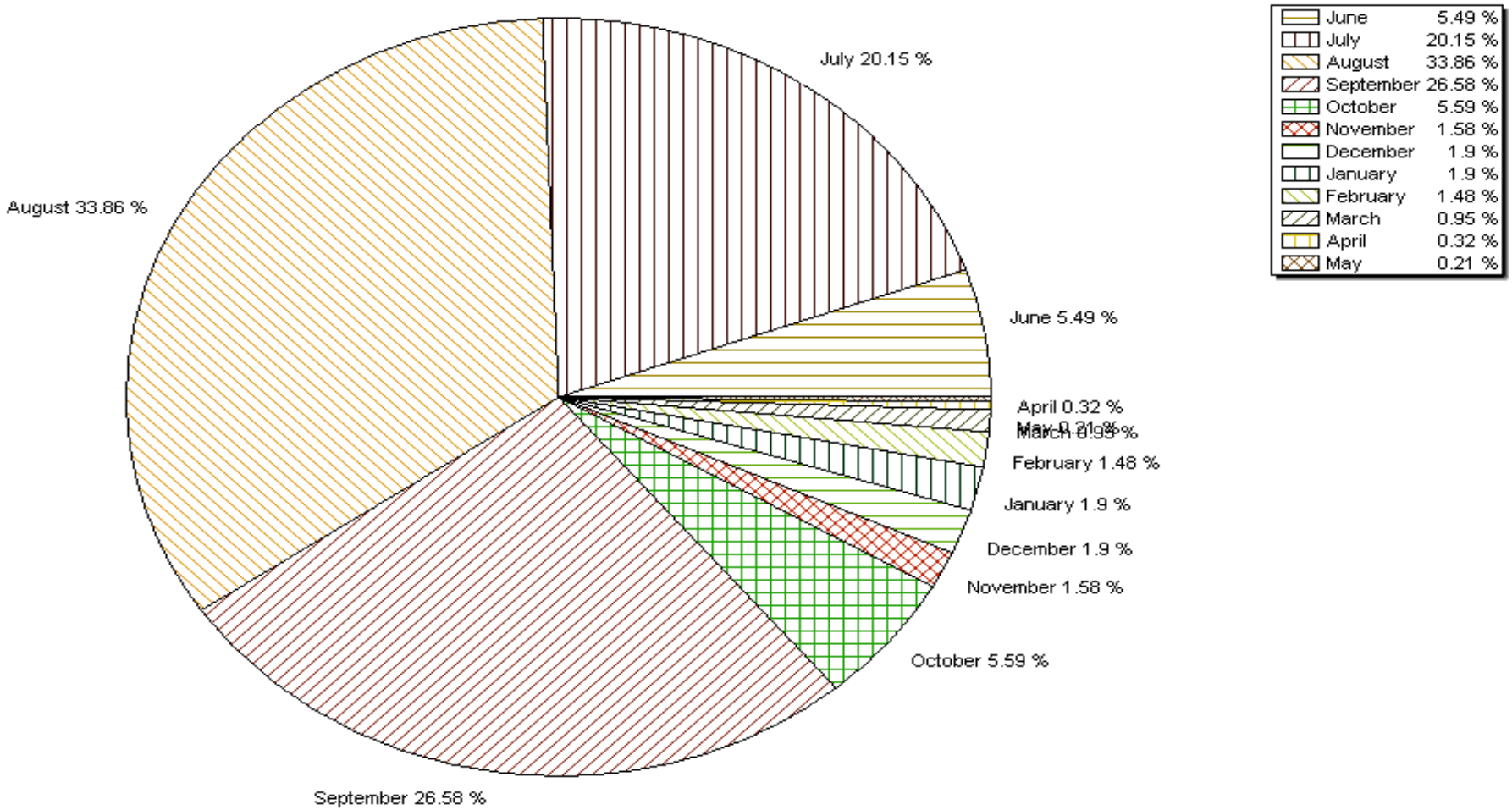


Note: Missing values have not been considered while arriving at Annual Runoff

Monthly Average Runoff based on period : 1986-2015

Station Name : NANDGAON (AGH3AF4) **Division : Wainganga Div., Nagpur**

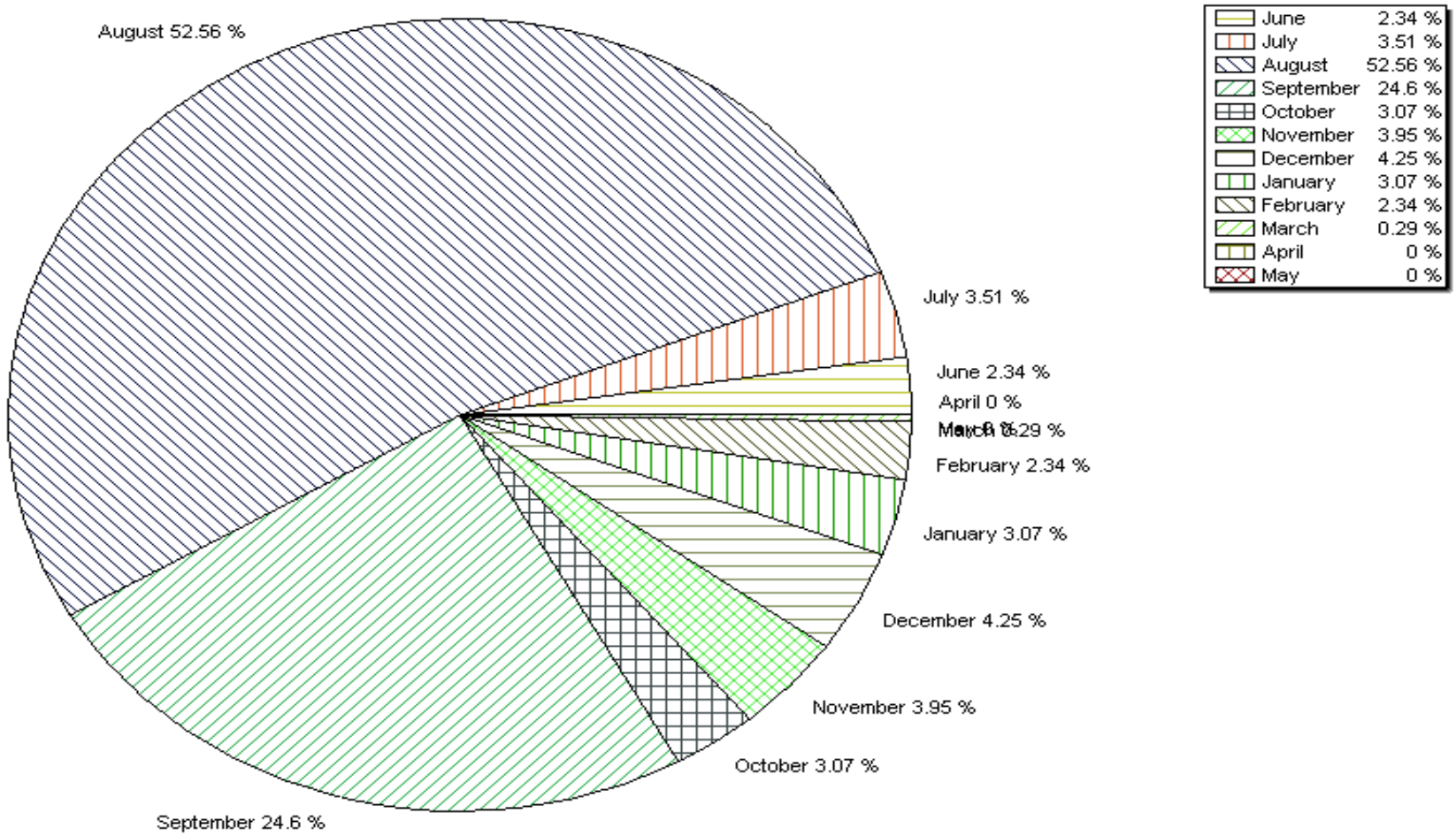
Local River : Wunna **Sub-Division : Penganga Sd, Yeotmal**



Monthly Runoff for the Year : 2015-2016

Station Name : NANDGAON (AGH3AF4) **Division : Wainganga Div., Nagpur**

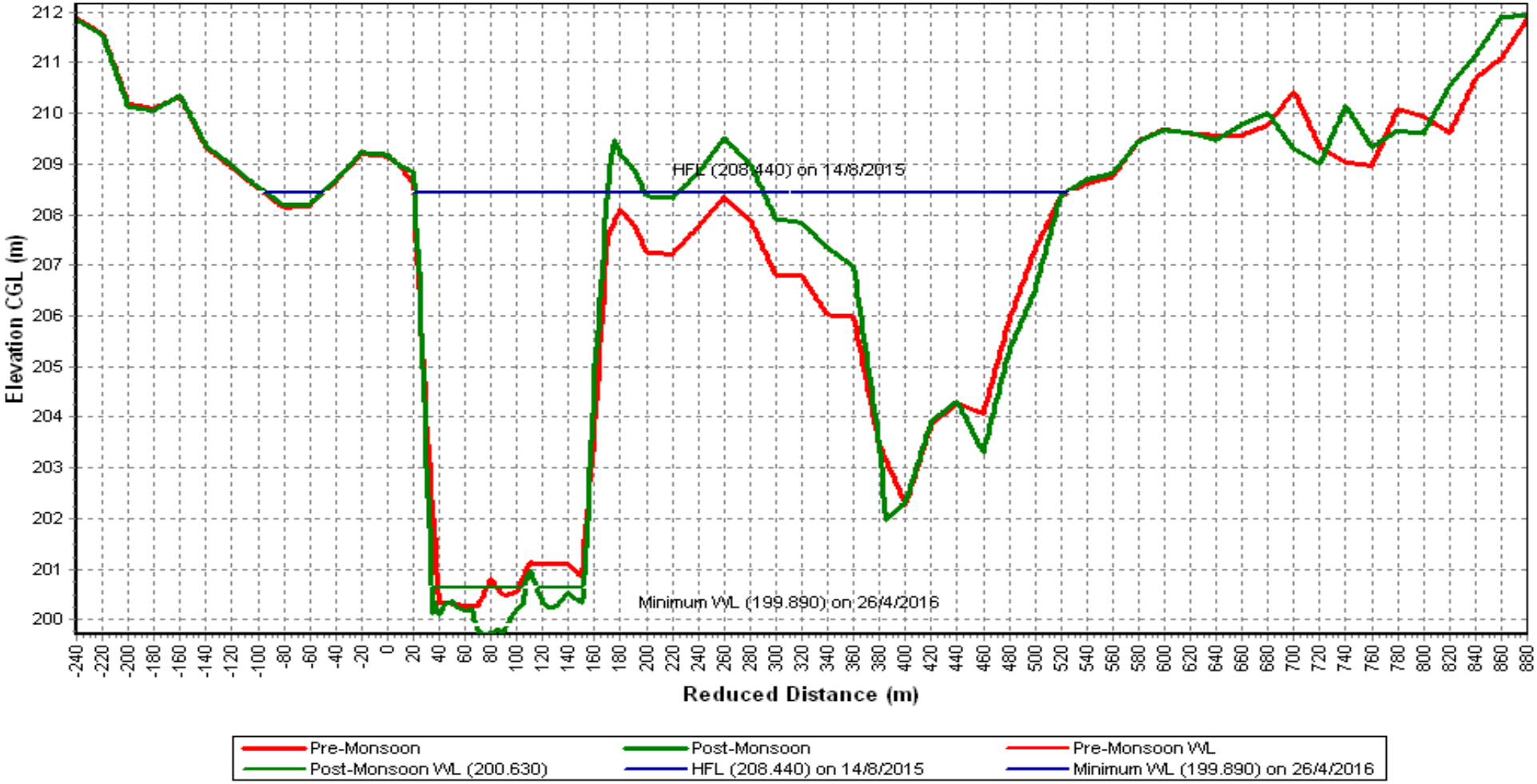
Local River : Wunna **Sub-Division : Penganga Sd, Yeotmal**



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

Station Name : NANDGAON (AGH3AF4) **Division : Wainganga Div., Nagpur**

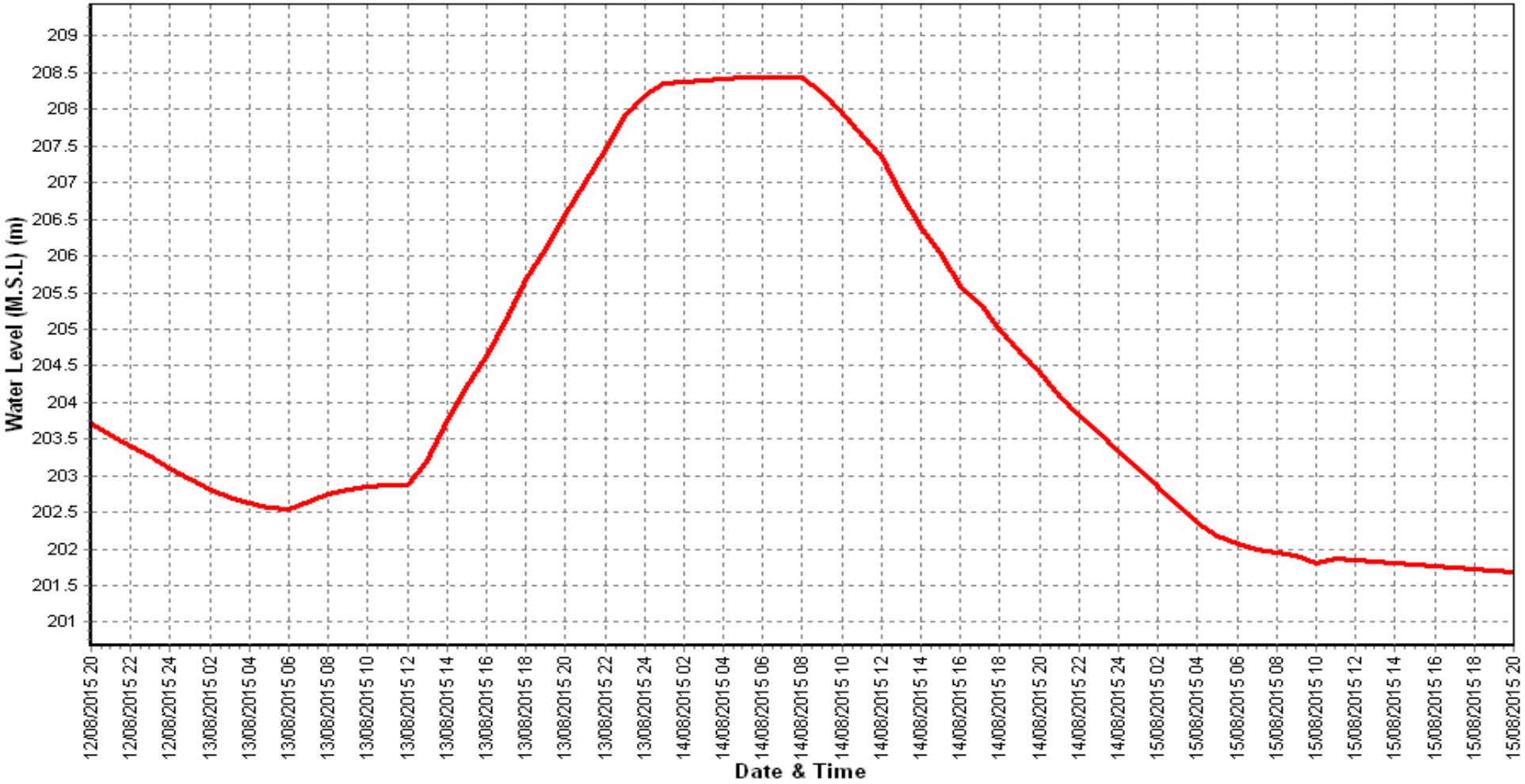
Local River : Wunna **Sub-Division : Penganga Sd, Yeotmal**



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

Station Name : NANDGAON (AGH3AF4) **Division : Wainganga Div., Nagpur**

Local River : Wunna **Sub-Division : Penganga Sd, Yeotmal**

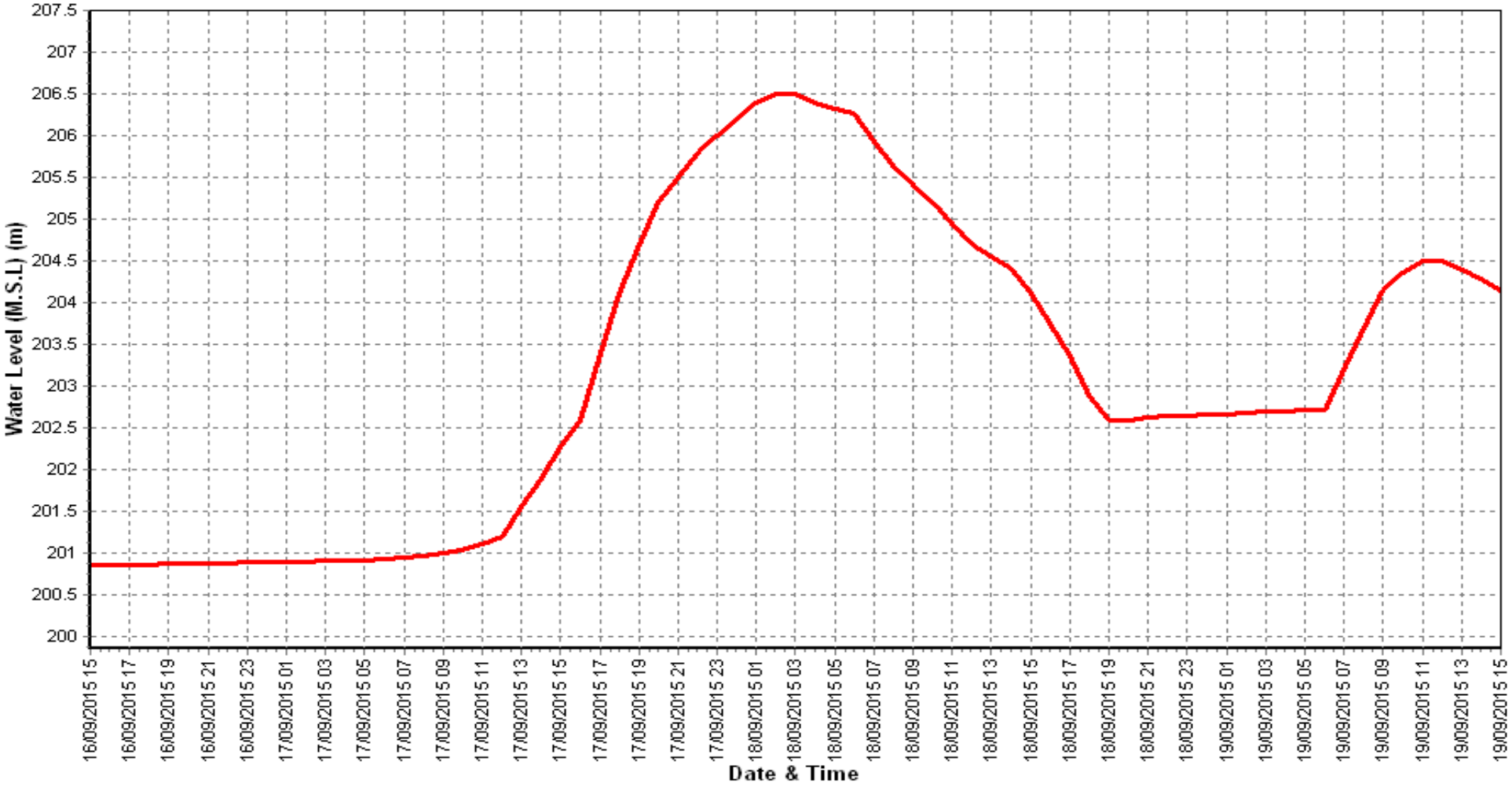


Time Span: 72 Hrs

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

Station Name : NANDGAON (AGH3AF4) **Division : Wainganga Div., Nagpur**

Local River : Wunna **Sub-Division : Penganga Sd, Yeotmal**

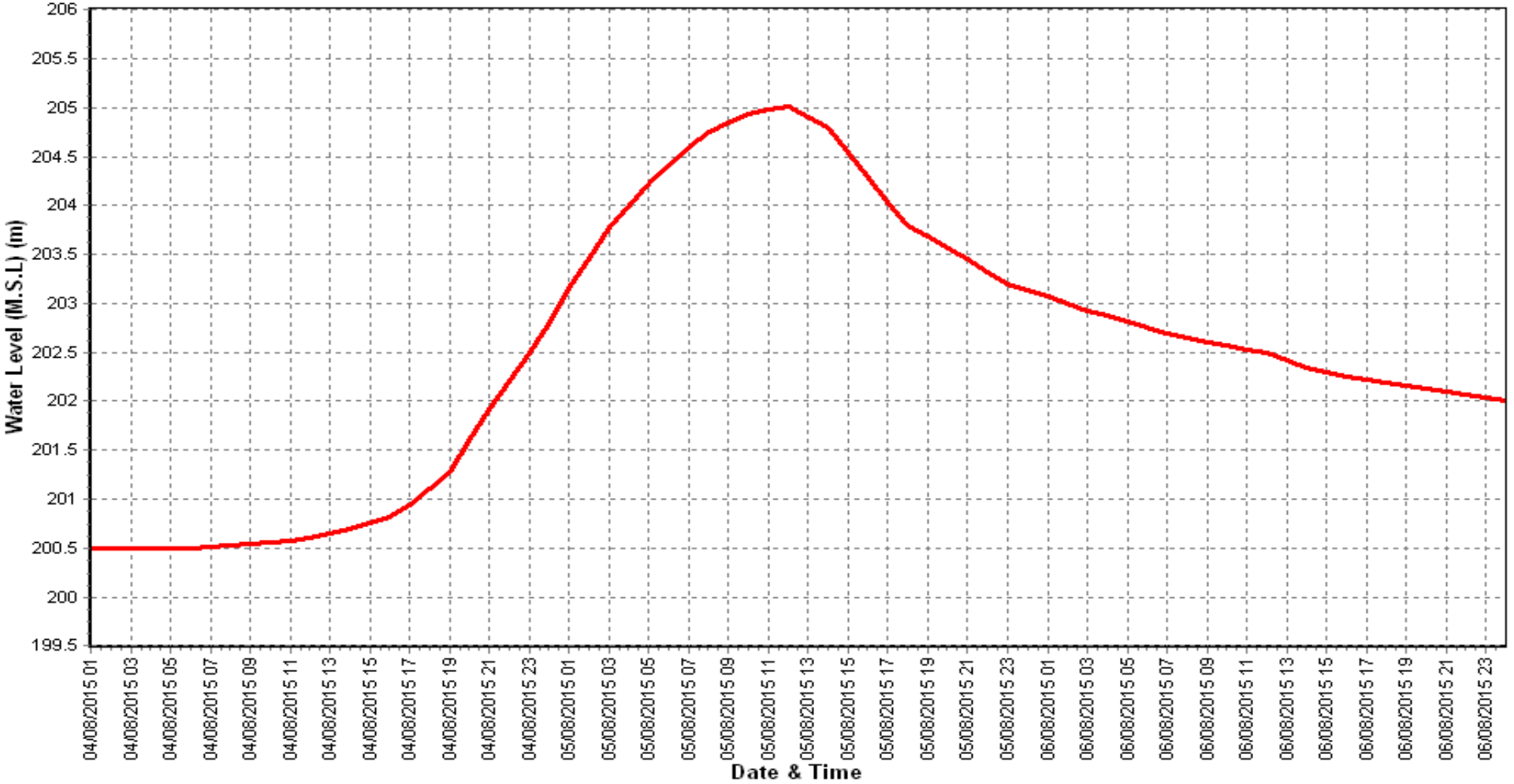


Time Span: 72 Hrs

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

Station Name : NANDGAON (AGH3AF4) **Division : Wainganga Div., Nagpur**

Local River : Wunna **Sub-Division : Penganga Sd, Yeotmal**



Time Span: 72 Hrs

HISTORY SHEET

			Water Year	:	**2015-2016**
Site	:	**HIVRA**	**Code**	:	**AGH30Q1**
State	:	Maharashtra	District		Wardha
Basin	:	Godavari	Independent River	:	Godavari
Tributary	:	Pranhita	Sub Tributary	:	Wardha
Sub-Sub Tributary	:	-	Local River	:	Wardha
Division	:	Wainganga Div., Nagpur	Sub-Division	:	Penganga Sd, Yeotmal
Drainage Area	:	10240 Sq. Km.	Bank	:	Left
Latitude	:	20°32'52"	Longitude	:	78°19'30"
Zero of Gauge (m)	:	230 (m.s.l)	20.11.1986		
		Opening Date	Closing Date		
Gauge	:	20.11.1986	**HFL During**	:	**241.6**
			Corres. Discharge	:	**3321.142 Cumecs(Estimated)**
Discharge	:	11.08.1987	**Date & Time of**	:	**06.08.2015**
			Occurance	:	**06.00 hrs.**
Sediment	:	26.06.1990			
Water Quality	:	16.12.1987			

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

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1987-1988	2238	235.300	20.08.1987	0.000	231.980	06.02.1988
1988-1989	2150	243.800	03.10.1988	0.000	232.050	02.05.1989
1989-1990	911.0	238.070	19.08.1989	0.003	231.565	18.05.1990
1990-1991	1940	240.555	31.08.1990	0.000	232.075	16.05.1991
1991-1992	5377	244.000	01.08.1991	0.000	232.035	25.03.1992
1992-1993	3050	241.980	22.08.1992	0.000	231.300	19.06.1992
1993-1994	263.2	234.670	01.09.1993	0.000	232.120	06.05.1994
1994-1995	6862	246.310	07.09.1994	0.000		02.06.1994
1995-1996	883.0	237.900	02.09.1995	0.000	231.945	07.05.1996
1996-1997	459.7	235.250	17.09.1996	0.000	231.180	30.05.1997
1997-1998	475.3	236.020	01.12.1997	0.000	231.990	12.06.1997
1998-1999	1889	239.250	16.09.1998	0.523	232.215	13.05.1999
1999-2000	3946	242.500	10.08.1999	0.512	232.125	17.05.2000
2000-2001	2425	240.360	19.07.2000	0.000	232.040	21.05.2001
2001-2002	4151	242.380	14.06.2001	0.000		11.05.2002
2002-2003	2415	240.400	25.06.2002	0.000	231.760	01.05.2003
2003-2004	322.4	234.490	10.08.2003	0.000	0.000	21.04.2004
2004-2005	675.6	236.190	05.08.2004	0.000	0.000	28.04.2005
2005-2006	2445	240.350	28.07.2005	0.000		21.06.2005
2006-2007	3039	241.025	05.08.2006	0.004	231.930	24.06.2006
2007-2008	4261	242.710	09.08.2007	2.313	232.070	07.06.2007
2008-2009	160.1	233.890	30.06.2008	0.059	232.390	24.06.2008

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	54.56	233.440	04.09.2009	3.924	232.630	08.09.2009
2010-2011	2936	239.470	31.08.2010	0.000	232.360	25.01.2011
2011-2012	2761	240.110	05.09.2011	0.000	232.280	25.01.2012
2012-2013	4698	242.950	06.09.2012	0.000	232.280	02.11.2012
2013-2014	2699	241.130	24.08.2013	0.000	231.800	04.06.2013
2014-2015	2740	241.100	24.07.2014	0.000	232.100	25.02.2015

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

Stage-Discharge Data for the period 2015 - 2016

Station Name : HIVRA (AGH30Q1) **Division : Wainganga Div., Nagpur**

Local River : Wardha **Sub-Division : Penganga Sd, Yeotmal**

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	231.780	0.000	232.480	15.25	232.550	29.50	232.200	17.47	231.890	5.098 #	231.950	3.500 *
2	231.730	0.000	232.530	17.19	232.440	29.38 *	232.720	49.80	231.890	5.098 *	231.940	2.673
3	231.690	0.000	232.450	12.97	232.430	24.11	232.970	83.67	231.880	4.908	231.950	2.814
4	231.660	0.000	232.430	12.21	232.515	27.82	232.460	29.92	231.870	4.591 *	231.990	4.433 #
5	231.620	0.000	232.430	13.33 *	237.100	1041	232.400	28.35	231.860	4.501	231.980	4.187 #
6	231.570	0.000	232.410	12.58	241.300	3128 *	232.390	26.35 *	231.820	3.438 #	231.970	3.950 #
7	231.650	0.000	232.410	11.74	234.520	300.2 #	232.320	20.70	231.800	0.000	231.960	3.721 #
8	231.650	0.000	232.400	12.31	233.070	90.05	232.610	46.45	231.770	0.000	231.960	3.721 *
9	231.640	0.000	232.400	12.22	233.000	74.51 *	232.250	18.26	231.760	0.000	231.850	2.024
10	231.660	0.000	232.400	12.06	232.940	76.74	232.160	13.13	231.750	0.000	231.860	2.088
11	231.670	0.000	232.400	12.01	232.590	33.02	232.120	12.04	231.750	0.000	231.860	1.862 *
12	231.640	0.000	232.410	12.58 *	235.500	525.2 #	232.100	11.33	231.740	1.801	231.860	2.076
13	231.680	0.000	232.410	15.51	235.560	541.0 #	232.080	11.24 *	231.730	1.766	231.850	1.968
14	231.660	0.000	232.430	13.33 #	238.500	1601 *	232.080	10.60	231.720	1.726	231.850	1.963
15	231.650	0.000	232.275	9.769	233.900	190.0 *	232.110	11.70	231.710	1.676	231.870	2.014 *
16	231.620	0.000	232.110	4.444	233.350	113.1 *	232.640	46.61	231.730	1.739	231.890	2.030
17	231.610	0.000	231.960	0.000	233.350	115.0	232.900	64.95 *	231.750	1.941	231.890	2.010
18	231.600	0.000	231.870	0.000	233.420	127.5	235.680	547.0	231.840	1.578 *	231.890	2.002
19	231.620	0.000	231.850	0.000	233.410	125.1	234.200	240.2 #	231.850	1.992	231.910	2.078
20	231.850	0.000	231.790	0.000	233.440	132.9	232.690	46.99 *	231.860	2.056	231.950	3.500 #
21	232.090	0.000	231.840	0.000	233.410	127.5	232.630	46.81	231.870	2.104	231.970	3.950 #
22	232.300	0.000	231.830	0.000	233.380	122.0	232.590	44.32	231.760	0.709 *	232.200	11.65 *
23	233.190	75.66	231.790	0.000	233.060	80.56 *	232.570	42.11	231.760	0.709 #	232.190	11.93
24	233.770	136.9	231.820	0.000	232.660	47.34	232.275	18.28	231.870	2.014 *	232.170	11.31
25	233.720	130.6	232.060	0.000	232.620	45.43	232.130	13.25 *	231.880	2.173 *	232.180	10.79 *
26	232.470	14.40	232.840	59.52 *	232.460	31.69	232.050	10.88	231.890	2.233	232.170	11.30
27	232.570	17.85	232.790	51.94	232.440	29.39	232.000	8.361 *	231.900	2.355	232.230	12.60
28	232.620	21.84 *	232.760	51.95	232.340	20.99	231.970	7.392 #	231.850	2.063	232.200	12.07
29	232.600	19.16	232.720	48.86	232.280	19.74	231.940	8.022	231.820	1.322 #	232.170	10.37 *
30	232.590	17.97	232.610	33.03	232.240	18.25 *	231.920	7.382	231.910	2.418	232.150	11.26
31			232.580	30.62	232.390	27.43			231.930	2.578		
Daily Mean												
Ten-Dai	231.665	0.000	232.434	13.19	234.186	482.1	232.448	33.41	231.829	2.763	231.941	3.311
Ten-Da	231.660	0.000	232.150	6.765	234.302	350.3	232.860	100.3	231.768	1.628	231.882	2.150
Ten-Da	232.792	43.44	232.331	25.08	232.662	51.84	232.207	20.68	231.858	1.880	232.163	10.72
Monthly												
Min.	231.570	0.000	231.790	0.000	232.240	18.25	231.920	7.382	231.710	0.000	231.850	1.862
Max.	233.770	136.9	232.840	59.52	241.300	3128	235.680	547.0	231.930	5.098	232.230	12.60
Mean	232.039	14.48	232.306	15.34	233.683	286.9	232.505	51.45	231.820	2.083	231.995	5.395

Annual Runoff in MCM = 1100 Annual Runoff in mm = 107

Peak Observed Discharge = 1041 cumecs on 05-08-2015 Corres. Water Level :237.1 m

Lowest Observed Discharge = 0.000 cumecs on 01-06-2015 Corres. Water Level :231.78 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 : HIVRA (AGH30Q1) **Division : Wainganga Div., Nagpur**

Local River : Wardha **Sub-Division : Penganga Sd, Yeotmal**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	232.140	4.415 #	231.960	2.199	232.230	6.014	232.240	5.764 #	231.800	0.789	231.610	0.000
2	232.140	4.415 #	231.990	2.440	232.170	4.492	232.300	6.281	231.700	0.000	231.600	0.000
3	232.160	4.668 #	232.020	3.066 *	232.130	3.966	232.660	13.86 #	231.690	0.000	231.610	0.000
4	232.170	4.798 #	232.090	4.178	232.120	4.014	232.170	4.432	231.680	0.000	231.660	0.000
5	232.180	4.929 #	232.120	4.407	232.110	3.874	232.070	3.951	231.670	0.000	231.660	0.000
6	232.180	4.929 *	232.050	3.835	232.070	3.696	232.050	3.376 *	231.660	0.000	231.680	0.000
7	232.160	4.668 #	232.070	3.978	232.070	3.593 *	232.030	3.598	231.650	0.000	231.680	0.000
8	232.170	4.798 #	232.170	4.435	232.080	3.800	232.020	3.418	231.640	0.000	231.680	0.000
9	232.230	5.364	232.200	5.520	232.170	4.159	232.010	2.971	231.630	0.000	231.690	0.000
10	232.250	5.868	232.220	5.477 *	232.250	6.409	231.980	2.783	231.630	0.000	231.700	0.000
11	232.340	7.480	232.170	4.515	232.330	6.997	231.970	2.733	231.620	0.000	231.690	0.000
12	232.320	6.774	232.160	4.303	232.360	7.522	231.960	2.649	231.610	0.000	231.690	0.000
13	232.280	6.363 *	232.160	4.258	232.570	12.56	231.950	2.408 *	231.600	0.000	231.710	0.000
14	232.270	6.067	232.220	5.936	232.490	10.09 *	231.920	1.933	231.600	0.000	231.750	0.000
15	232.200	5.202	232.310	6.604	232.420	8.953	231.910	1.884	231.590	0.000	231.800	0.000
16	232.270	6.093	232.320	6.785	232.360	7.539	231.900	1.816	231.590	0.000	231.770	0.000
17	232.260	5.956	232.360	7.665 *	232.300	6.862	231.890	1.742	231.580	0.000	231.770	0.000
18	232.270	6.137	232.370	7.911	232.240	6.721	231.880	1.662	231.580	0.000	231.760	0.000
19	232.230	5.214	232.320	6.857	232.270	6.867	231.870	1.598	231.580	0.000	231.750	0.000
20	232.230	5.619 *	232.270	6.059	232.300	7.019	231.870	1.844 *	231.640	0.000	232.310	22.75 #
21	232.270	6.095	232.300	6.423	232.290	6.518 *	231.820	1.041	231.660	0.000	233.000	120.1 *
22	232.280	6.455	232.340	7.239	232.230	5.619 #	231.810	0.994	231.650	0.000	233.000	120.1 *
23	232.290	6.553	232.280	6.206	232.200	3.962	231.800	0.955	231.650	0.000	232.900	75.34
24	232.300	6.675 *	232.190	5.063 *	232.060	3.624	231.790	0.675 *	231.640	0.000	232.560	46.98
25	232.300	6.675 *	232.140	4.113	232.000	3.136	231.780	0.574 *	231.640	0.000	232.480	42.99
26	232.300	6.746	232.120	4.170 *	231.980	2.810	231.780	0.574 #	231.630	0.000	232.460	40.10
27	232.250	5.910 *	232.040	3.846	231.970	2.753	231.780	0.574 *	231.620	0.000	232.430	38.74
28	232.250	5.850	232.020	3.643	231.970	2.586 *	231.830	1.068	231.620	0.000	232.400	35.25
29	232.200	5.272	232.020	3.656	232.120	4.170 #	231.820	1.023	231.620	0.000	232.340	25.22 *
30	231.970	2.271	232.100	4.451			231.820	0.997	231.610	0.000	232.130	10.91 #
31	231.970	2.279	232.170	4.798 *			231.810	0.927			232.080	8.469 #
Daily M												
Ten-Dai	232.178	4.885	232.089	3.953	232.140	4.402	232.153	5.043	231.675	0.079	231.657	0.000
Ten-Da	232.267	6.090	232.266	6.089	232.364	8.113	231.912	2.027	231.599	0.000	231.800	2.275
Ten-Da	232.216	5.525	232.156	4.873	232.091	3.909	231.804	0.855	231.634	0.000	232.525	51.29
Monthly												
Min.	231.970	2.271	231.960	2.199	231.970	2.586	231.780	0.574	231.580	0.000	231.600	0.000
Max.	232.340	7.480	232.370	7.911	232.570	12.56	232.660	13.86	231.800	0.789	233.000	120.1
Mean	232.220	5.501	232.170	4.969	232.202	5.528	231.951	2.584	231.636	0.026	232.011	18.93

Peak Computed Discharge = 3128 cumecs on 06-08-2015 Corres. Water Level :241.3 m

Lowest Computed Discharge = 0.574 cumecs on 25-03-2016 Corres. Water Level :231.78 m

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

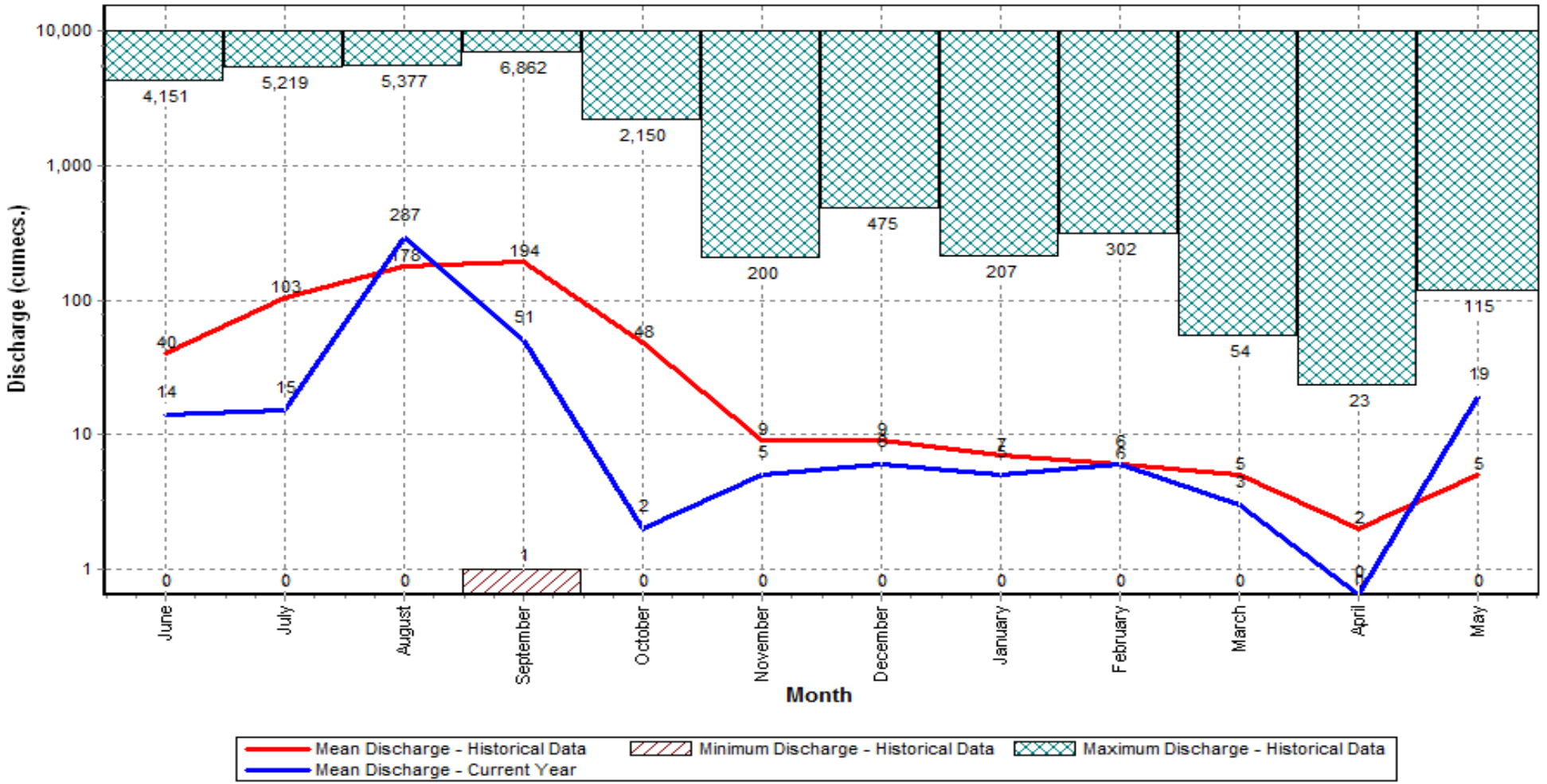
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016

Station Name : HIVRA (AGH30Q1) | **Data considered : 1987-2016** | **Division : Wainganga Div., Nagpur**

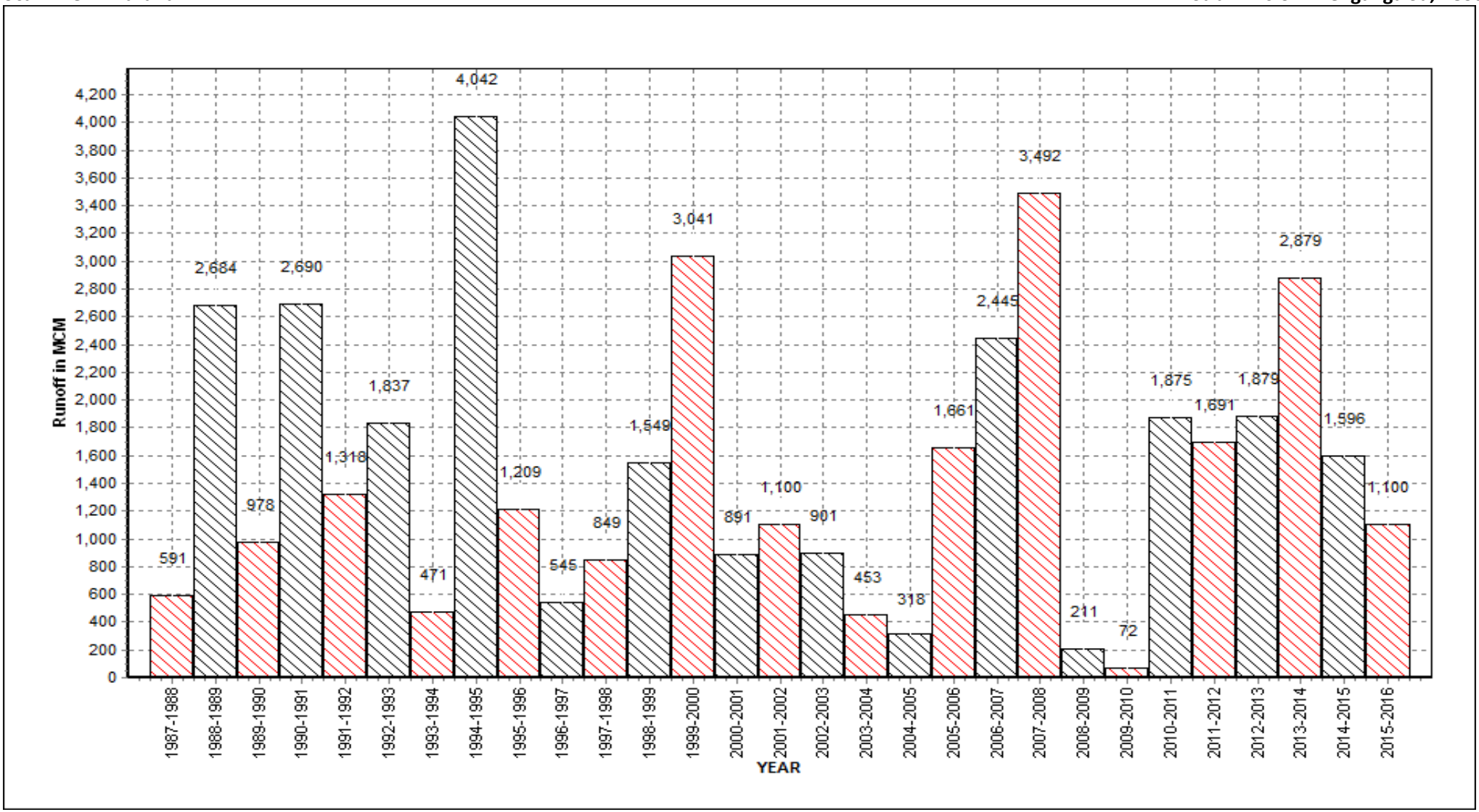
Local River : Wardha | **Sub-Division : Penganga Sd, Yeotmal**



Annual Runoff Values for the period: 1987 - 2016

Station Name : HIVRA (AGH30Q1) **Division : Wainganga Div., Nagpur**

Local River : Wardha **Sub-Division : Penganga Sd, Yeotmal**



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

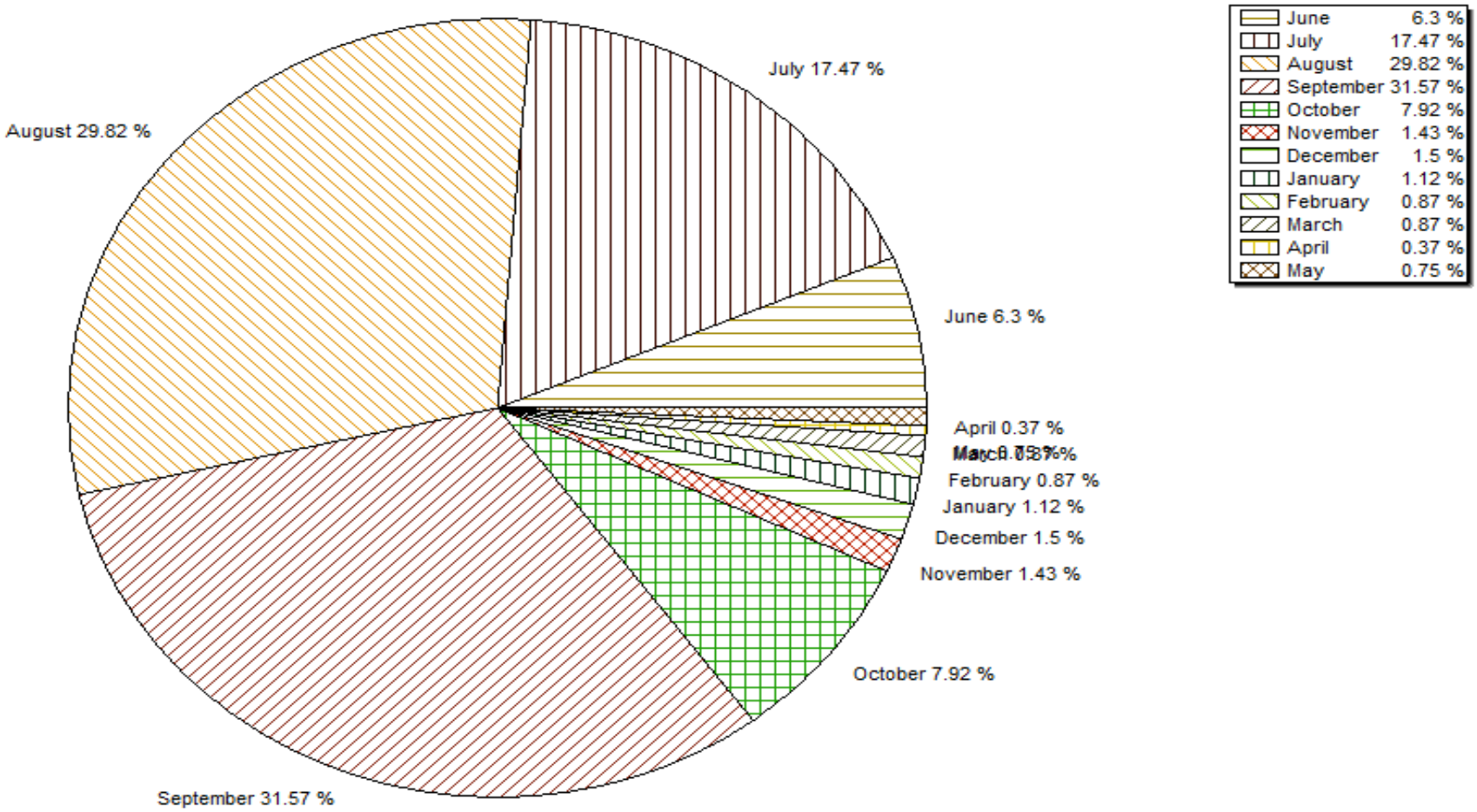
Monthly Average Runoff based on period : 1987-2015

Station Name : HIVRA (AGH30Q1)

Local River : Wardha

Division : Wainganga Div., Nagpur

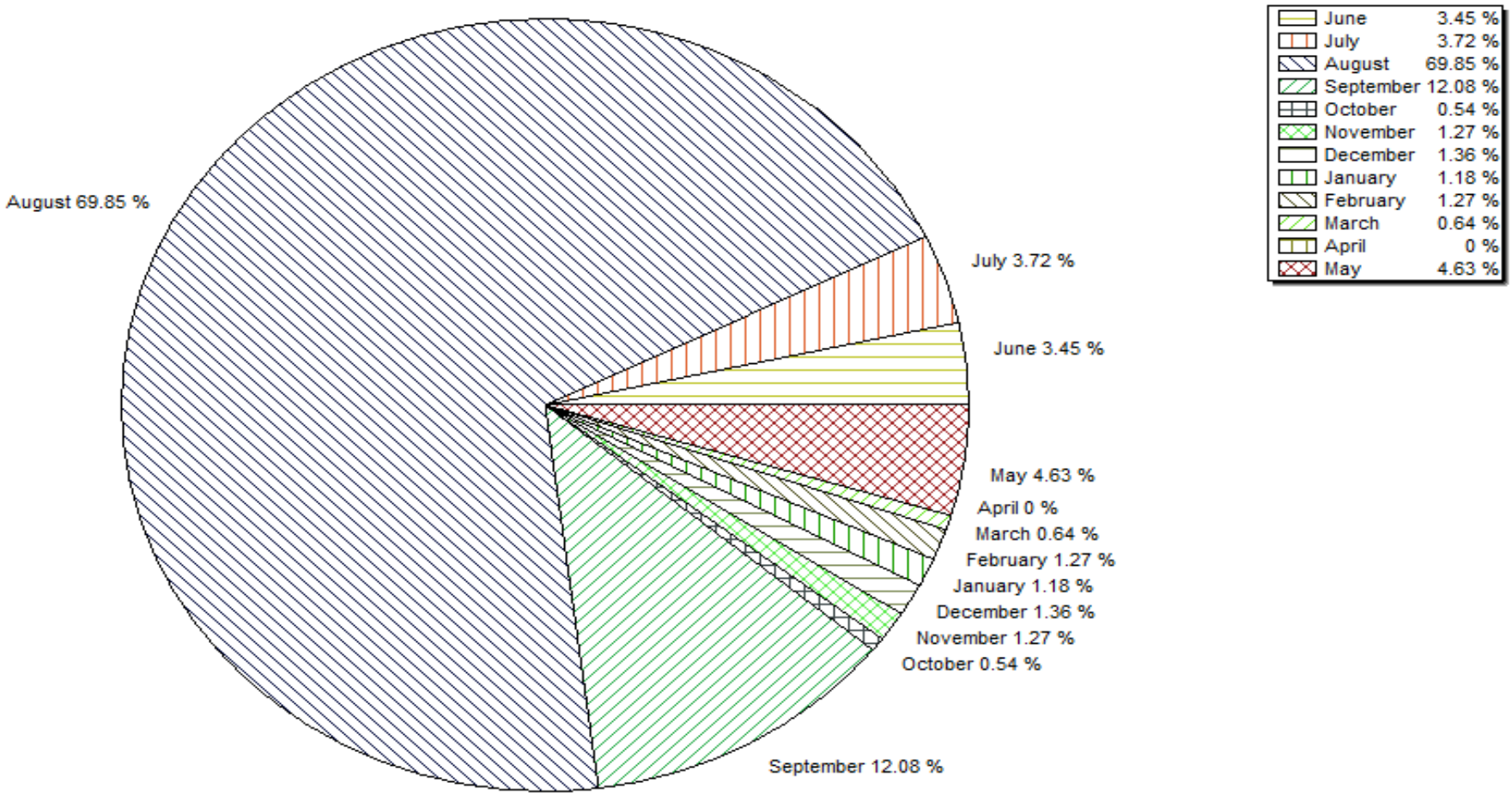
Sub-Division : Penganga Sd, Yeotmal



Monthly Runoff for the Year : 2015-2016

Station Name : HIVRA (AGH30Q1)
Local River : Wardha

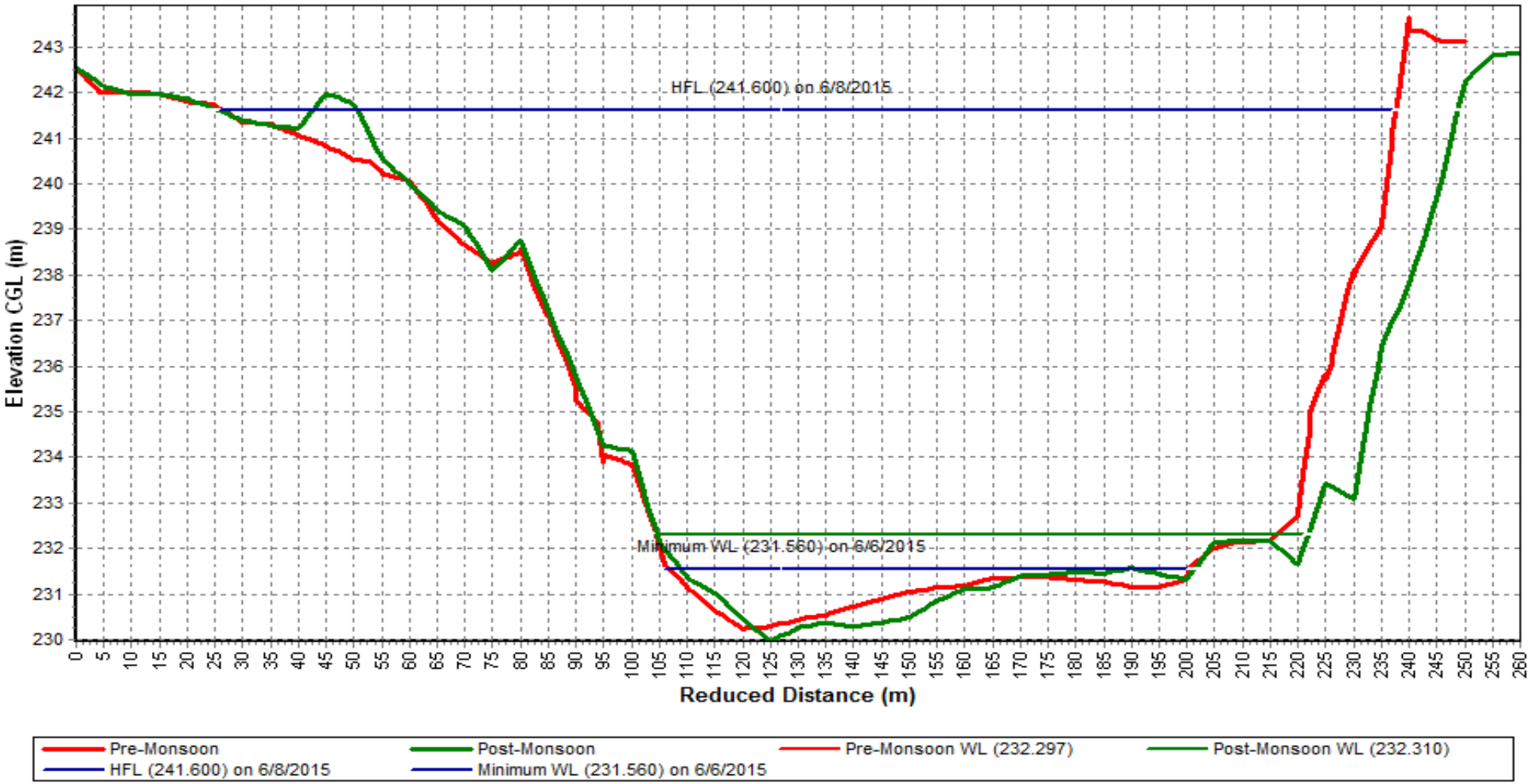
Division : Wainganga Div., Nagpur
Sub-Division : Penganga Sd, Yeotmal



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

Station Name : HIVRA (AGH30Q1) **Division : Wainganga Div., Nagpur**

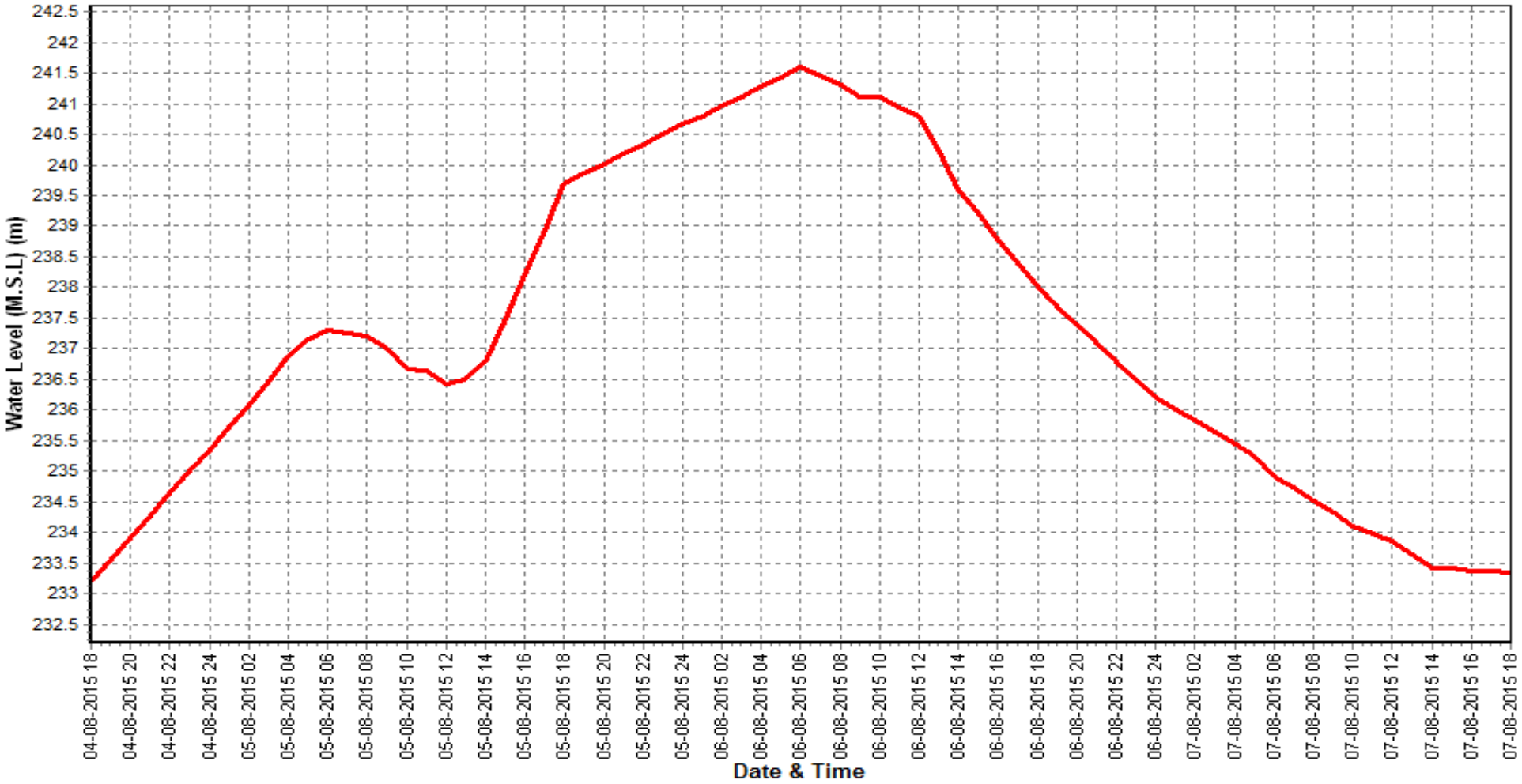
Local River : Wardha **Sub-Division : Penganga Sd, Yeotmal**



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

Station Name : HIVRA (AGH30Q1) **Division : Wainganga Div., Nagpur**

Local River : Wardha **Sub-Division : Penganga Sd, Yeotmal**

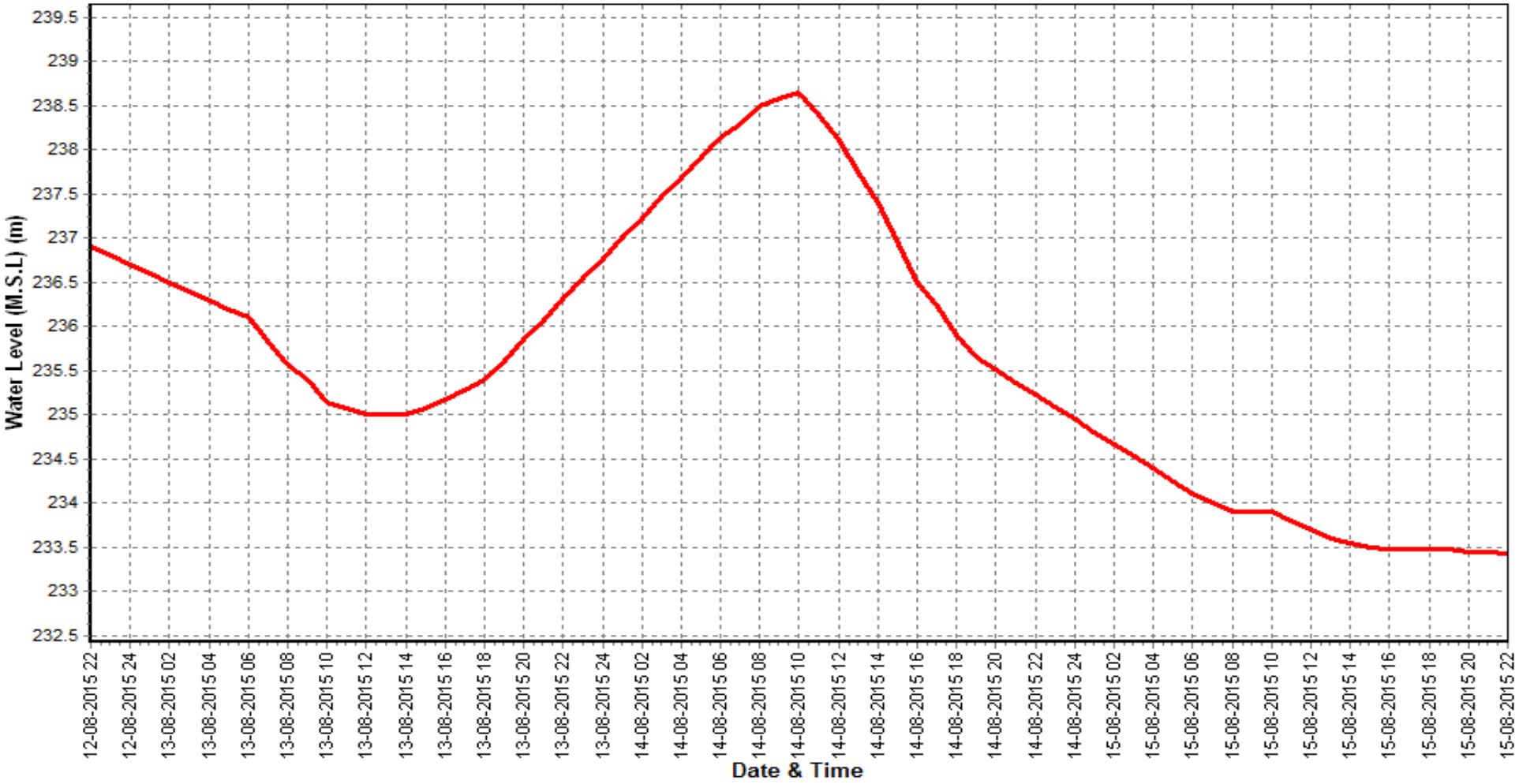


Time Span: 72 Hrs

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

Station Name : HIVRA (AGH30Q1) **Division : Wainganga Div., Nagpur**

Local River : Wardha **Sub-Division : Penganga Sd, Yeotmal**

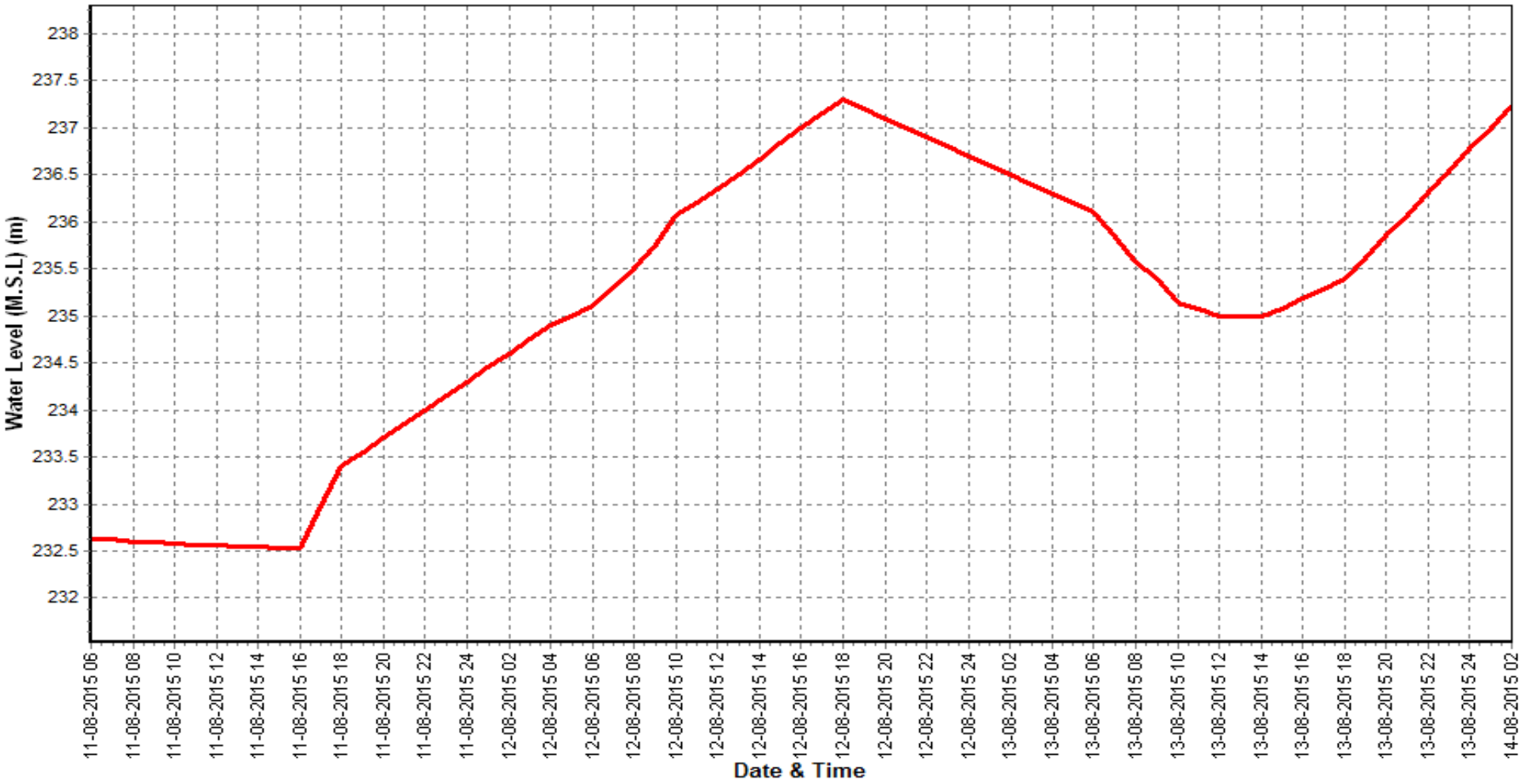


Time Span: 72 Hrs

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

Station Name : HIVRA (AGH30Q1) **Division : Wainganga Div., Nagpur**

Local River : Wardha **Sub-Division : Penganga Sd, Yeotmal**



Time Span: 72 Hrs

HISTORY SHEET

Water Year : 2015-2016

Site	**: ASHTI**		**Code**	**: AGH40A4**	
State	: Maharashtra		District	Gadchiroli	
Basin	: Godavari		Independent River	: Godavari	
Tributary	: Pranhita		Sub Tributary	: Wainganga	
Sub-Sub Tributary	: -		Local River	: Wainganga	
Division	: Wainganga Div., Nagpur		Sub-Division	: L Wainganga SD, Chandrapur	
Drainage Area	: 50990 Sq. Km.		Bank	: Left	
Latitude	: 19°41'12"		Longitude	: 79°47'13"	
Zero of Gauge (m)	: 137.276 (m.s.l) 141.42 (m.s.l)		01.08.1965 01.06.1993	- 31.05.1993	
	Opening Date		Closing Date		
Gauge	: 01.08.1965				
Discharge	: 14.07.1965		**HFL During 2015-16** **Corres. Discharge**	**: 151.310** **: 13189.15 Cumecs(Estimated)**	
Sediment	: 14.03.1966		**Date & Time of Occurance**	**: 15.08.2015 03.00 hrs.**	
Water Quality	: 01.06.1966				

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

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1965-1966	3780	143.546	03.09.1965	0.000		14.06.1965
1966-1967	6840	145.781	08.08.1966	0.800		10.06.1966
1967-1968	15300	148.026	03.08.1967	0.400	138.131	12.06.1967
1968-1969	16469	149.151	17.08.1968	1.800	138.121	24.05.1969
1969-1970	11500	148.076	03.08.1969	1.000	138.101	04.06.1969
1970-1971	20520	149.586	05.09.1970	2.700	138.276	05.06.1970
1971-1972	13470	148.141	01.09.1971	1.700	138.121	31.05.1972
1972-1973	9250	146.321	01.09.1972	0.900	138.071	18.06.1972
1973-1974	13945	148.556	10.07.1973	0.600	138.131	09.06.1973
1974-1975	21554	149.256	21.08.1974	1.300	138.066	28.05.1975
1975-1976	20416	149.256	29.06.1975	0.205	138.151	23.06.1975
1976-1977	9846	146.894	05.09.1976	3.800	138.376	26.05.1977
1977-1978	13452	148.016	15.09.1977	2.300	138.396	14.06.1977
1978-1979	28200	150.731	31.08.1978	8.200	138.631	14.06.1978
1979-1980	22700	150.076	12.08.1979	1.000	138.301	30.05.1980
1980-1981	13500	147.246	05.08.1980	1.300	138.356	05.06.1980
1981-1982	16500	150.326	10.08.1981	2.200	138.511	17.06.1981
1982-1983	5391	145.096	19.08.1982	2.300	138.216	30.05.1983
1983-1984	12729	147.951	22.08.1983	1.080	138.156	14.06.1983
1984-1985	16457	148.491	21.08.1984	1.700	138.281	28.05.1985
1985-1986	7421	145.696	17.07.1985	2.000	138.336	02.06.1985

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**
1986-1987	21000	150.596	15.08.1986	3.500	138.256	31.05.1987
1987-1988	5277	144.956	29.08.1987	0.800	137.986	30.05.1988
1988-1989	5390	145.246	31.07.1988	0.700	137.996	15.06.1988
1989-1990	6000	144.416	23.08.1989	0.900	138.256	11.05.1990
1990-1991	22320	150.226	23.08.1990	6.900	138.516	02.06.1990
1991-1992	17807	148.166	17.08.1991	2.500	138.336	23.05.1992
1992-1993	20000	147.996	23.08.1992	1.100	138.276	06.06.1992
1993-1994	8252	149.670	04.08.1993	2.980	142.430	31.05.1994
1994-1995	27874	155.100	13.07.1994	1.500	142.430	02.06.1994
1995-1996	13649	151.150	03.09.1995	1.000	142.600	26.05.1996
1996-1997	2660	146.760	22.08.1996	2.122	142.570	10.06.1996
1997-1998	10264	150.240	27.07.1997	0.392	142.330	17.06.1997
1998-1999	15084	151.870	16.09.1998	13.73	142.990	06.05.1999
1999-2000	20718	153.120	21.09.1999	11.25	142.960	12.06.1999
2000-2001	24276	154.750	20.07.2000	0.594	142.260	31.05.2001
2001-2002	15890	152.375	16.08.2001	0.412	142.250	02.06.2001
2002-2003	14178	151.740	21.08.2002	0.011	142.160	18.06.2002
2003-2004	15191	151.845	29.07.2003	4.500	142.590	04.06.2003
2004-2005	4609	148.440	23.08.2004	0.070	142.030	30.05.2005
2005-2006	24481	154.020	17.09.2005	0.177	141.990	15.06.2005
2006-2007	15551	152.670	17.08.2006	2.803	142.300	30.05.2007
2007-2008	20614	153.930	08.08.2007	2.417	142.280	07.06.2007
2008-2009	10718	150.270	01.08.2008	0.046	142.080	13.05.2009
2009-2010	8058	149.655	24.07.2009	1.721	142.230	27.06.2009
2010-2011	17500	152.570	09.09.2010	1.404	142.340	23.05.2011
2011-2012	16347	151.730	09.09.2011	1.337	142.300	28.05.2012
2012-2013	15830	151.700	07.09.2012	1.310	142.270	18.06.2012
2013-2014	18596	153.710	01.08.2013	1.229	142.240	10.06.2013
2014-2015	16908	152.435	25.07.2014	1.846	142.370	09.06.2014

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

Stage-Discharge Data for the period 2015 - 2016

Station Name : ASHTI (AGH40A4) **Division : Wainganga Div., Nagpur**

Local River : Wainganga **Sub-Division : L Wainganga SD, Chandrapur**

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	142.350	5.323	144.140	321.3 #	144.310	335.6	147.130	3426	143.990	187.6	144.020	245.6 *
2	142.360	5.792	144.060	291.1 #	144.080	298.5 *	146.725	2268	144.240	320.9 *	144.030	257.1
3	142.290	3.404	143.890	187.4	144.060	291.1 #	145.940	1652	144.150	225.0	143.980	254.7
4	142.270	3.182	143.530	151.5	143.915	184.9	146.000	1655	143.890	206.5 *	143.960	244.2
5	142.260	2.862	143.220	73.29 *	143.625	118.8	146.060	1701	144.060	210.8	143.930	234.8
6	142.250	2.754	143.205	71.67	143.350	98.75	145.420	1067 *	144.280	257.6	143.740	173.1
7	142.250	2.566 *	143.600	145.9	147.585	3645	144.935	690.4	144.010	231.3	143.660	141.8
8	142.370	6.012	143.465	126.5	146.420	2279	144.780	554.7	143.820	207.9	143.620	137.9 *
9	142.420	7.209	143.230	82.31	145.990	1577 *	144.320	340.6	143.790	180.3	143.610	130.4
10	142.440	7.709	143.015	50.57	145.730	1397	144.500	410.5	143.690	153.0	143.610	132.6
11	142.460	8.542	143.015	52.73	145.660	1349	144.565	466.1	143.960	227.0 *	143.710	159.0 *
12	142.490	9.807	143.030	46.35 *	145.260	977.4	144.440	384.0	144.030	233.7	143.680	162.8
13	142.550	14.77	142.960	44.14	146.545	2484	144.230	317.2 *	143.930	209.6	143.600	132.0
14	142.570	15.58 *	142.870	29.11 #	148.520	5229	144.070	206.5	143.790	180.4	143.550	133.9
15	142.560	17.31	143.850	234.6	151.080	12392 *	143.660	135.1	143.770	168.0	143.450	102.9 *
16	142.545	16.40	144.080	306.2	147.760	3973 *	144.445	391.8	143.975	228.8	143.335	103.1
17	142.675	23.02	144.305	319.3	147.165	3493	145.710	1167 *	143.995	254.8	143.290	90.06
18	142.720	22.11	144.270	374.1 *	146.430	2039	146.775	2376	143.860	198.1 *	143.240	70.30
19	142.730	29.68	144.020	276.7 *	146.000	1716	148.170	4324	143.995	255.1	143.230	67.45
20	144.200	383.4 #	143.715	209.4	146.345	1947	147.430	3052 *	144.070	271.9	143.280	88.16
21	144.530	538.7 *	143.510	129.3 #	145.900	1474	146.600	2136	143.800	184.8	143.130	57.21
22	146.710	2161	143.375	111.6	145.915	1581	146.060	1745	143.770	174.0 *	143.100	49.08 *
23	145.720	1400	144.385	349.8	145.740	1339 *	145.780	1344	143.720	142.0	143.000	33.06
24	146.600	2543	144.455	397.2	145.420	1034	146.220	1617 #	143.720	161.4 *	142.950	30.77
25	146.300	2184	144.890	650.8	144.915	683.9	145.820	1256 *	143.740	166.4 *	142.910	29.18 *
26	145.420	1082	147.170	3029 *	144.835	593.7	145.335	1011	143.730	147.2	142.890	26.40
27	144.950	640.5	146.780	2860	144.695	577.5	144.890	617.6 *	143.740	161.0	142.870	25.42
28	144.680	573.1 *	145.960	1454	144.580	456.5	144.555	458.6	143.900	213.9	142.850	25.14
29	144.390	427.2 #	145.400	1268	144.880	648.4	144.510	428.1	143.880	202.9	142.830	22.57 *
30	144.180	337.0 #	145.030	784.1 #	146.190	1784 *	144.210	249.5	143.580	142.0	142.875	29.03
31			144.680	554.5	146.760	2339			143.610	154.5		
n-Daily Mean												
I Ten-Daily	142.326	4.681	143.535	150.1	144.906	1023	145.581	1377	143.992	218.1	143.816	195.2
II Ten-Daily	142.750	54.06	143.611	189.3	147.076	3560	145.350	1282	143.938	222.7	143.437	111.0
III Ten-Daily	145.348	1189	145.058	1053	145.439	1137	145.398	1086	143.745	168.2	142.940	32.79
Monthly												
Min.	142.250	2.566	142.870	29.11	143.350	98.75	143.660	135.1	143.580	142.0	142.830	22.57
Max.	146.710	2543	147.170	3029	151.080	12392	148.170	4324	144.280	320.9	144.030	257.1
Mean	143.475	415.8	144.100	483.3	145.795	1882	145.443	1248	143.887	201.9	143.398	113

Annual Runoff in MCM = 11604 Annual Runoff in mm = 228

Peak Observed Discharge = 5229 cumecs on 14/08/2015 Corres. Water Level :148.52 m

Lowest Observed Discharge = 0.811 cumecs on 21/04/2016 Corres. Water Level :142.19 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 : ASHTI (AGH40A4) **Division : Wainganga Div., Nagpur**

Local River : Wainganga **Sub-Division : L Wainganga SD, Chandrapur**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	142.890	28.73	142.550	7.303	142.700	18.45	142.390	5.210	142.280	2.591	142.330	4.694 *
2	142.940	33.48	142.550	7.863	142.700	18.43	142.380	5.025	142.280	2.580	142.350	5.824
3	142.960	35.05	142.550	8.449 *	142.700	17.67	142.370	4.757	142.270	2.165 *	142.350	5.885
4	142.970	36.75	142.540	8.075	142.660	16.41	142.360	4.448	142.260	2.004	142.380	7.159
5	142.960	34.89	142.530	7.998	142.620	15.27	142.380	5.049	142.260	2.031	142.340	6.073
6	142.960	32.56 *	142.520	6.503	142.570	11.65	142.400	5.533 *	142.260	1.851	142.360	6.491
7	142.920	32.12	142.520	6.357	142.520	9.896 *	142.380	5.941	142.270	2.160	142.350	6.410
8	142.850	24.69	142.510	6.013	142.500	8.696	142.370	5.432	142.270	2.165 *	142.350	5.577 *
9	142.780	19.45	142.520	7.691	142.460	7.075	142.360	4.343 #	142.270	2.042	142.360	6.677
10	142.730	15.14	142.520	7.385 *	142.440	5.745	142.360	5.093	142.270	2.165 *	142.360	6.425
11	142.690	13.27	142.500	7.244	142.420	5.644	142.350	4.893	142.270	2.028	142.370	6.821
12	142.660	12.16	142.500	6.764	142.410	5.113	142.350	4.904	142.270	2.025	142.380	7.650
13	142.630	11.72 *	142.490	6.645	142.400	4.626	142.340	3.799 *	142.260	1.799	142.370	6.559
14	142.630	10.51	142.480	6.338	142.400	5.533 *	142.330	3.892	142.260	1.966 *	142.360	6.370
15	142.650	12.53	142.480	6.725	142.390	4.152	142.330	4.024	142.250	1.714	142.350	5.577 *
16	142.785	20.66	142.520	8.175	142.380	3.919	142.330	3.944	142.250	1.706	142.340	4.926
17	142.820	23.03	142.570	9.206 *	142.370	3.544	142.330	3.709	142.240	1.596 *	142.320	4.369
18	142.820	23.29	142.590	9.998	142.380	3.950	142.310	3.108	142.210	1.012	142.320	4.154
19	142.820	23.12	142.580	7.847	142.390	4.733	142.310	3.131	142.200	0.986 *	142.320	4.125
20	142.800	20.89 *	142.570	8.192	142.440	6.598	142.310	3.046 *	142.190	0.825	142.310	3.907
21	142.740	17.66	142.510	8.026	142.520	9.896 *	142.310	3.347	142.190	0.811	142.310	3.900 *
22	142.700	14.24	142.500	7.536	142.560	12.39	142.350	4.066 #	142.280	2.374	142.300	3.536 *
23	142.660	12.17	142.480	7.056	142.560	12.59	142.360	4.343 #	142.320	3.640	142.290	3.173
24	142.640	12.17 *	142.470	5.798 *	142.540	11.44	142.360	4.343 *	142.330	4.694 *	142.290	3.160
25	142.610	10.84 *	142.440	5.675	142.500	10.60	142.350	4.066 *	142.330	3.930	142.290	3.198
26	142.590	8.933	142.420	4.435 *	142.460	8.133	142.340	3.799 #	142.330	3.974	142.290	3.237
27	142.580	9.600 *	142.410	4.387	142.440	6.389	142.330	3.539 *	142.320	3.736	142.290	3.428
28	142.580	8.775	142.410	4.697	142.410	5.852 *	142.320	3.949	142.320	3.782	142.280	3.295
29	142.580	8.636	142.410	4.571	142.390	5.511	142.310	3.360	142.320	3.945	142.260	2.287 *
30	142.570	8.237	142.470	6.806			142.300	2.852	142.330	4.074	142.240	1.963
31	142.560	7.914	142.520	9.896 *			142.290	2.333			142.240	2.139
n-Daily Me												
I Ten-Daily	142.896	29.29	142.531	7.364	142.587	12.93	142.375	5.083	142.269	2.175	142.353	6.122
I Ten-Daily	142.731	17.12	142.528	7.713	142.398	4.781	142.329	3.845	142.240	1.566	142.344	5.446
II Ten-Dail	142.619	10.83	142.458	6.262	142.487	9.201	142.329	3.636	142.307	3.496	142.280	3.029
Monthly												
Min.	142.560	7.914	142.410	4.387	142.370	3.544	142.290	2.333	142.190	0.811	142.240	1.963
Max.	142.970	36.75	142.590	9.998	142.700	18.45	142.400	5.941	142.330	4.694	142.380	7.650
Mean	142.744	18.81	142.504	7.086	142.491	8.963	142.344	4.17	142.272	2.412	142.324	4.806

Peak Computed Discharge = 12392 cumecs on 15/08/2015 **Corres. Water Level :151.08 m**

Lowest Computed Discharge = 0.986 cumecs on 19/04/2016 **Corres. Water Level :142.2 m**

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

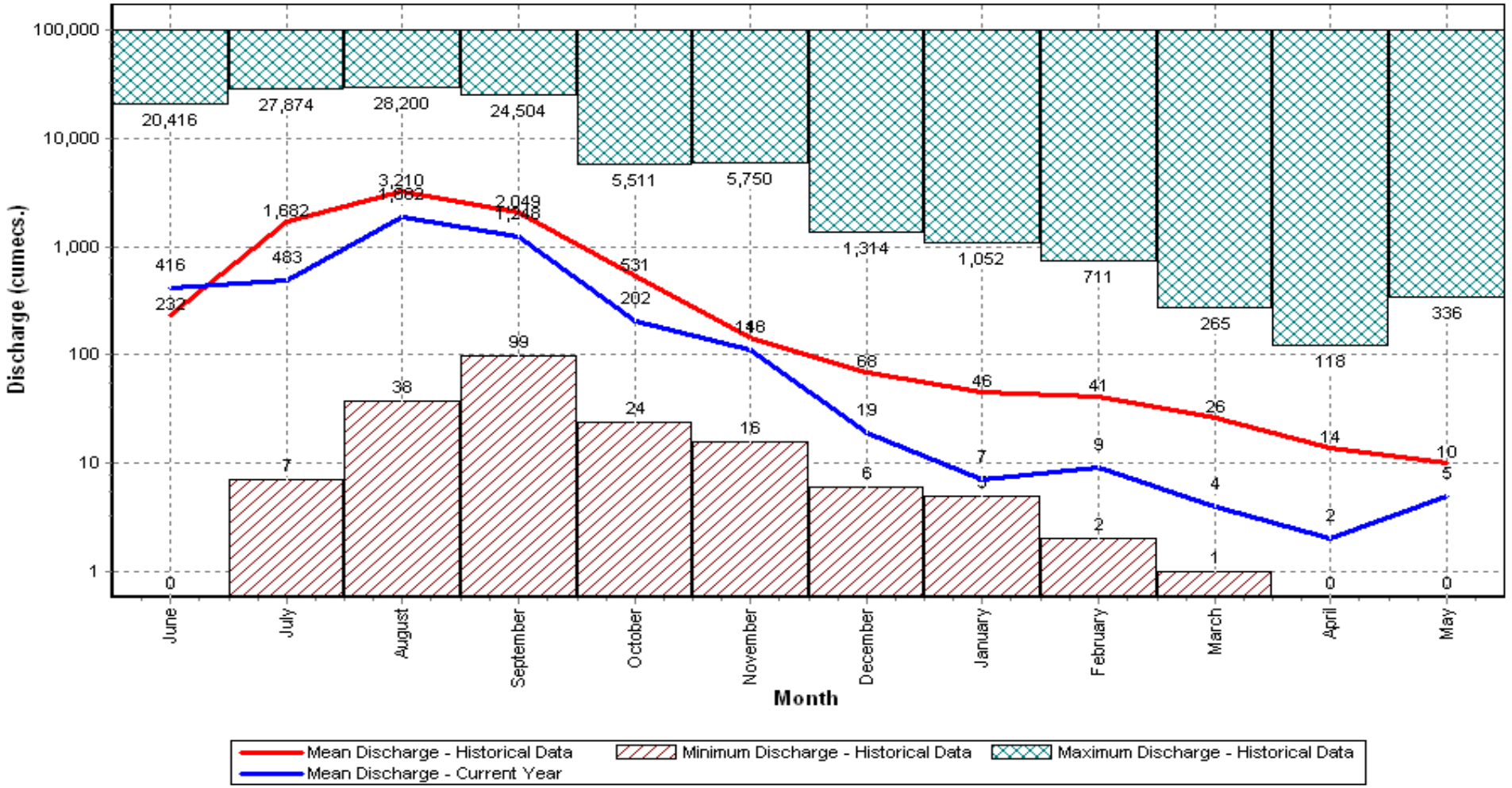
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016

Station Name : ASHTI (AGH40A4) | **Data considered : 1965-2016** | **Division : Wainganga Div., Nagpur**

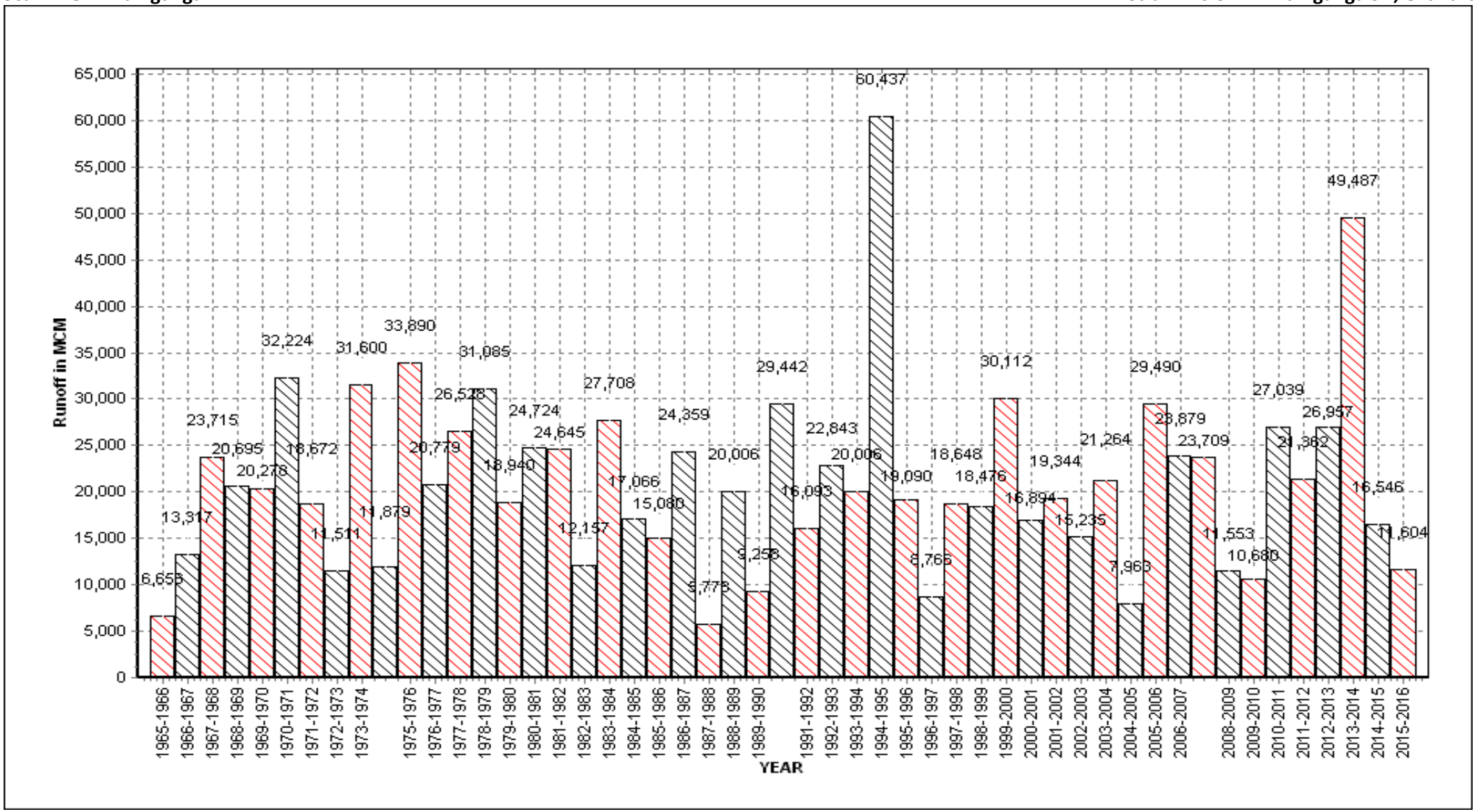
Local River : Wainganga | **Sub-Division : L Wainganga SD, Chandrapur**



Annual Runoff Values for the period: 1965 - 2016

Station Name : ASHTI (AGH40A4) **Division : Wainganga Div., Nagpur**

Local River : Wainganga **Sub-Division : L Wainganga SD, Chandrapur**

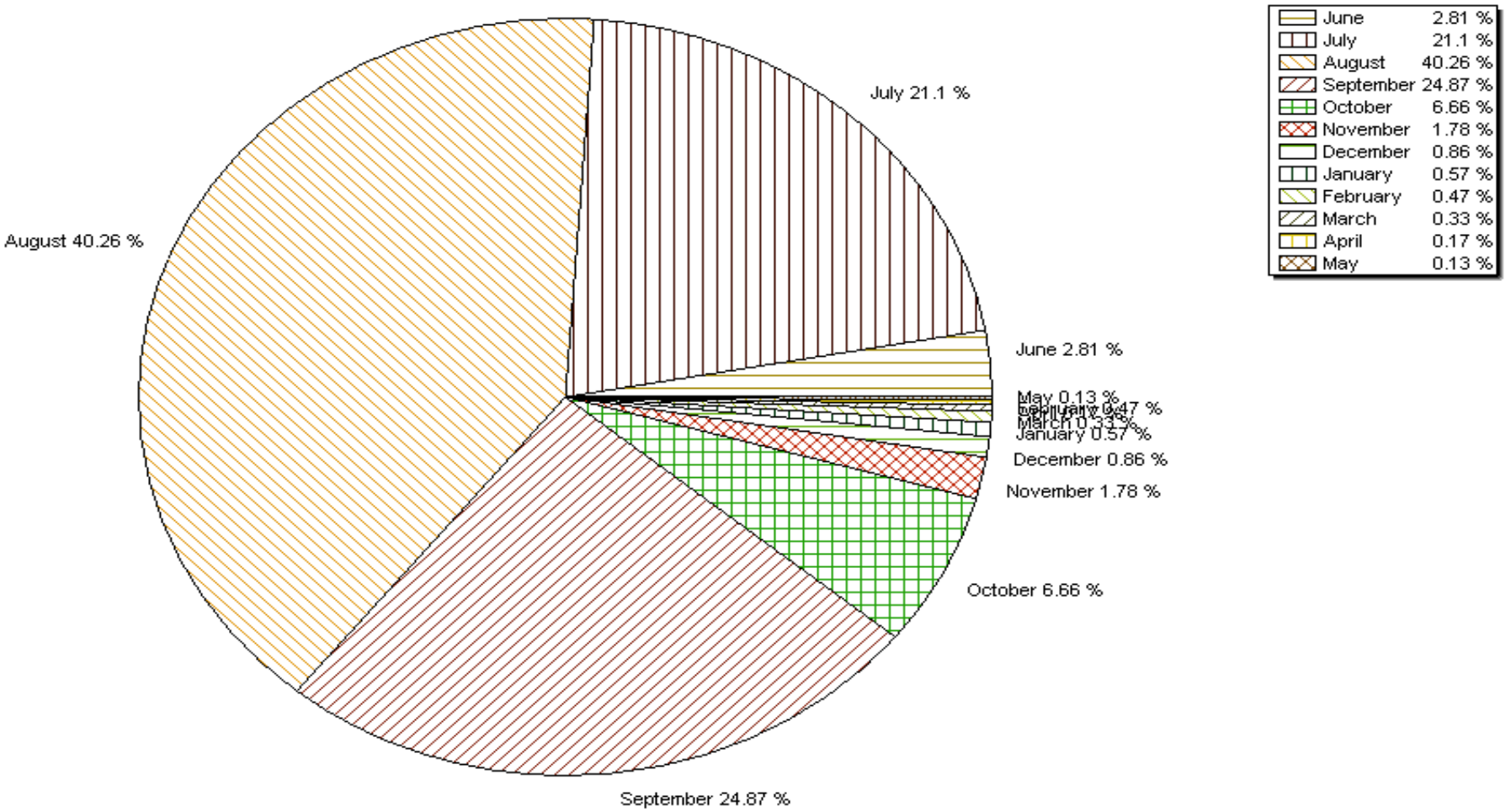


Note: Missing values have not been considered while arriving at Annual Runoff

Monthly Average Runoff based on period : 1965-2015

Station Name : ASHTI (AGH40A4) **Division : Wainganga Div., Nagpur**

Local River : Wainganga **Sub-Division : L Wainganga SD, Chandrapur**



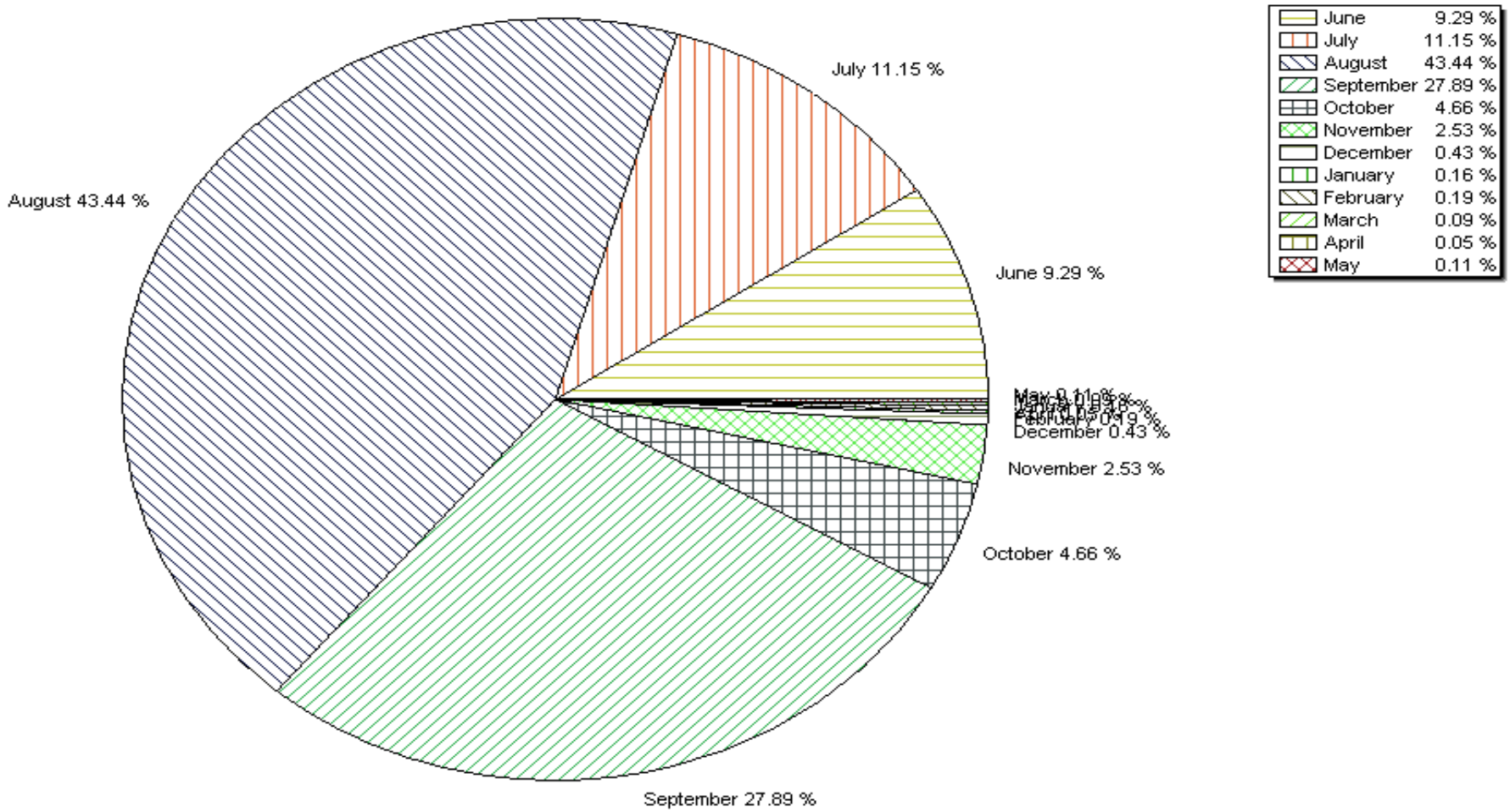
Monthly Runoff for the Year : 2015-2016

Station Name : ASHTI (AGH40A4)

Local River : Wainganga

Division : Wainganga Div., Nagpur

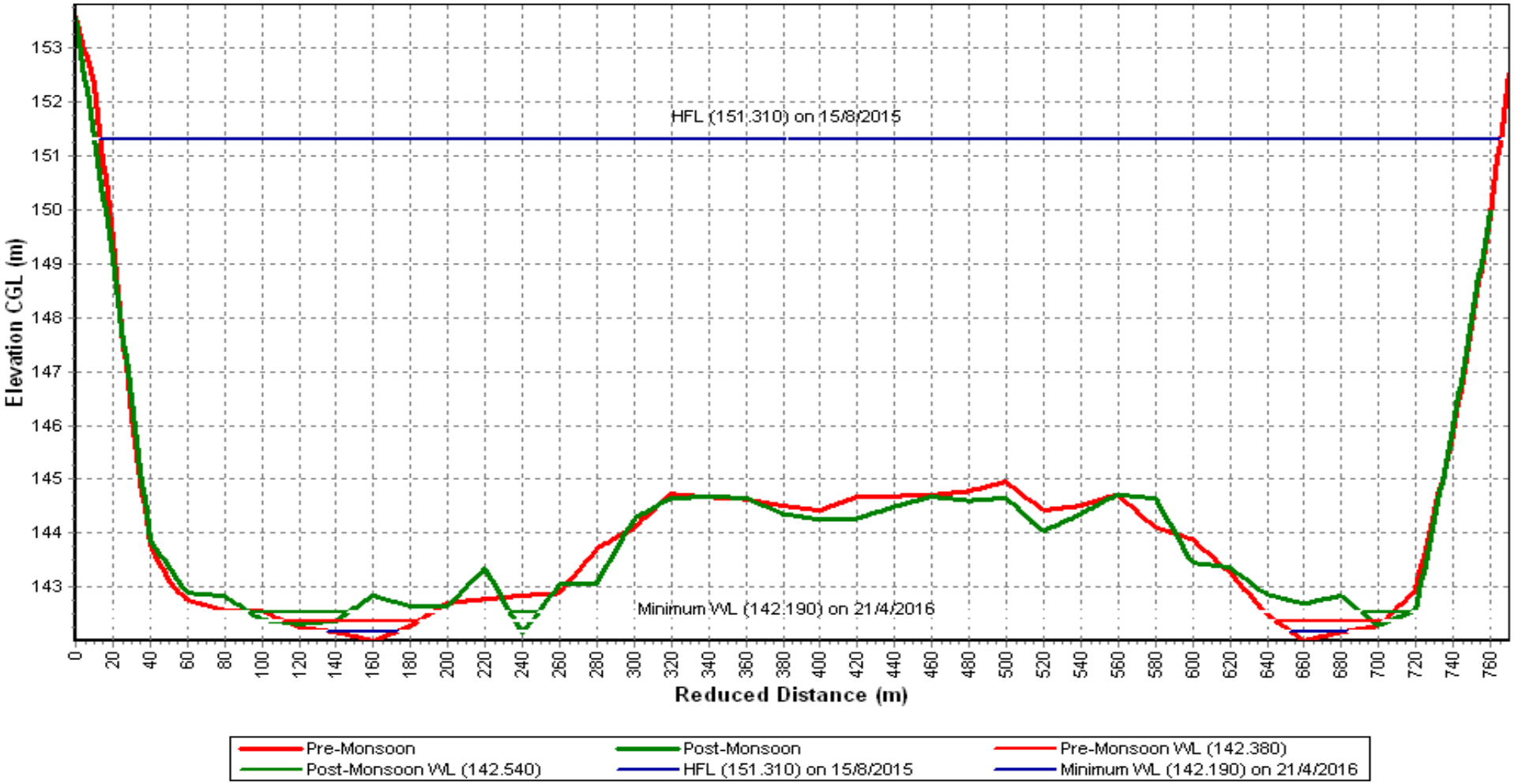
Sub-Division : L Wainganga SD, Chandrapur



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

Station Name : ASHTI (AGH40A4) **Division : Wainganga Div., Nagpur**

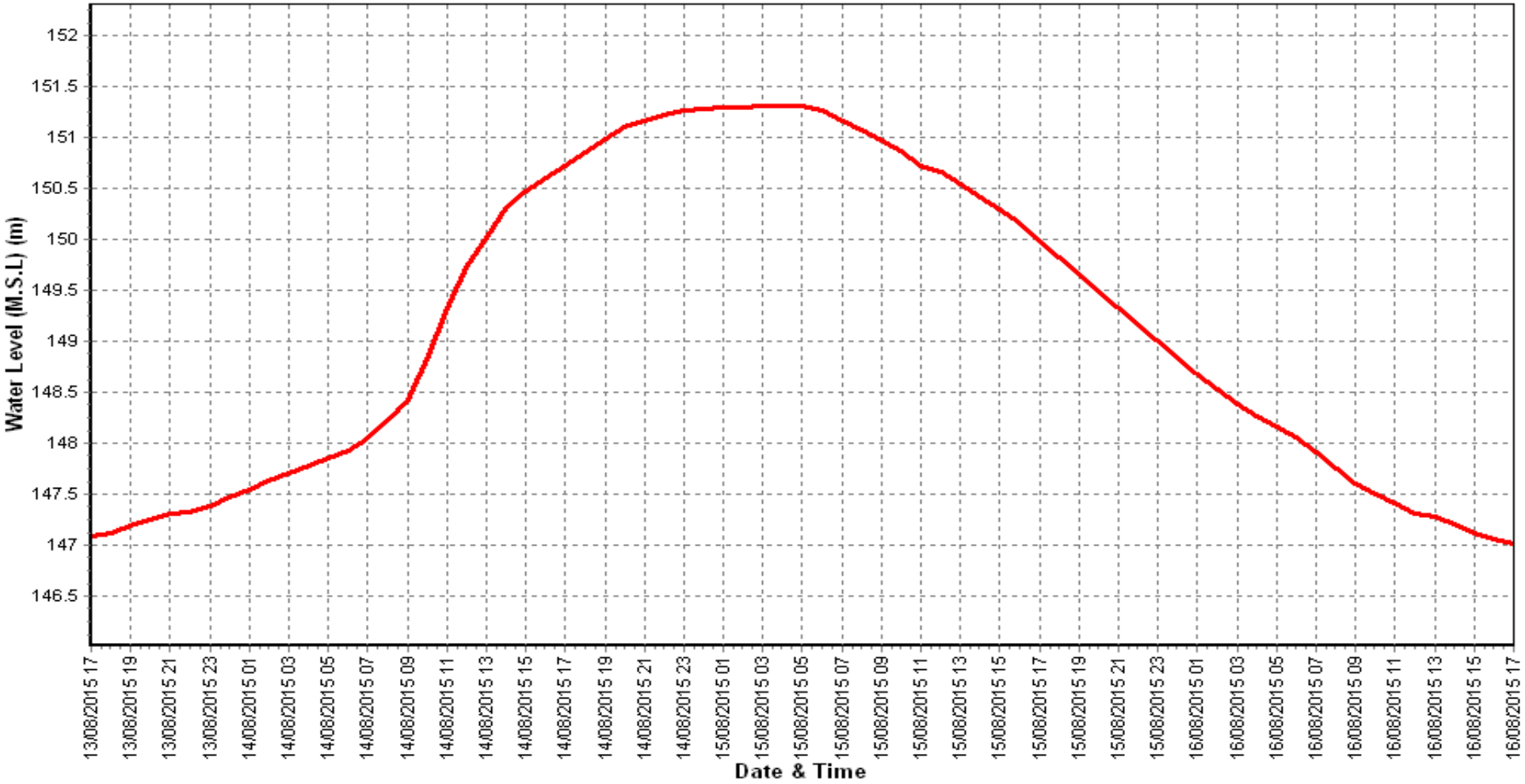
Local River : Wainganga **Sub-Division : L Wainganga SD, Chandrapur**



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

Station Name : ASHTI (AGH40A4) **Division : Wainganga Div., Nagpur**

Local River : Wainganga **Sub-Division : L Wainganga SD, Chandrapur**

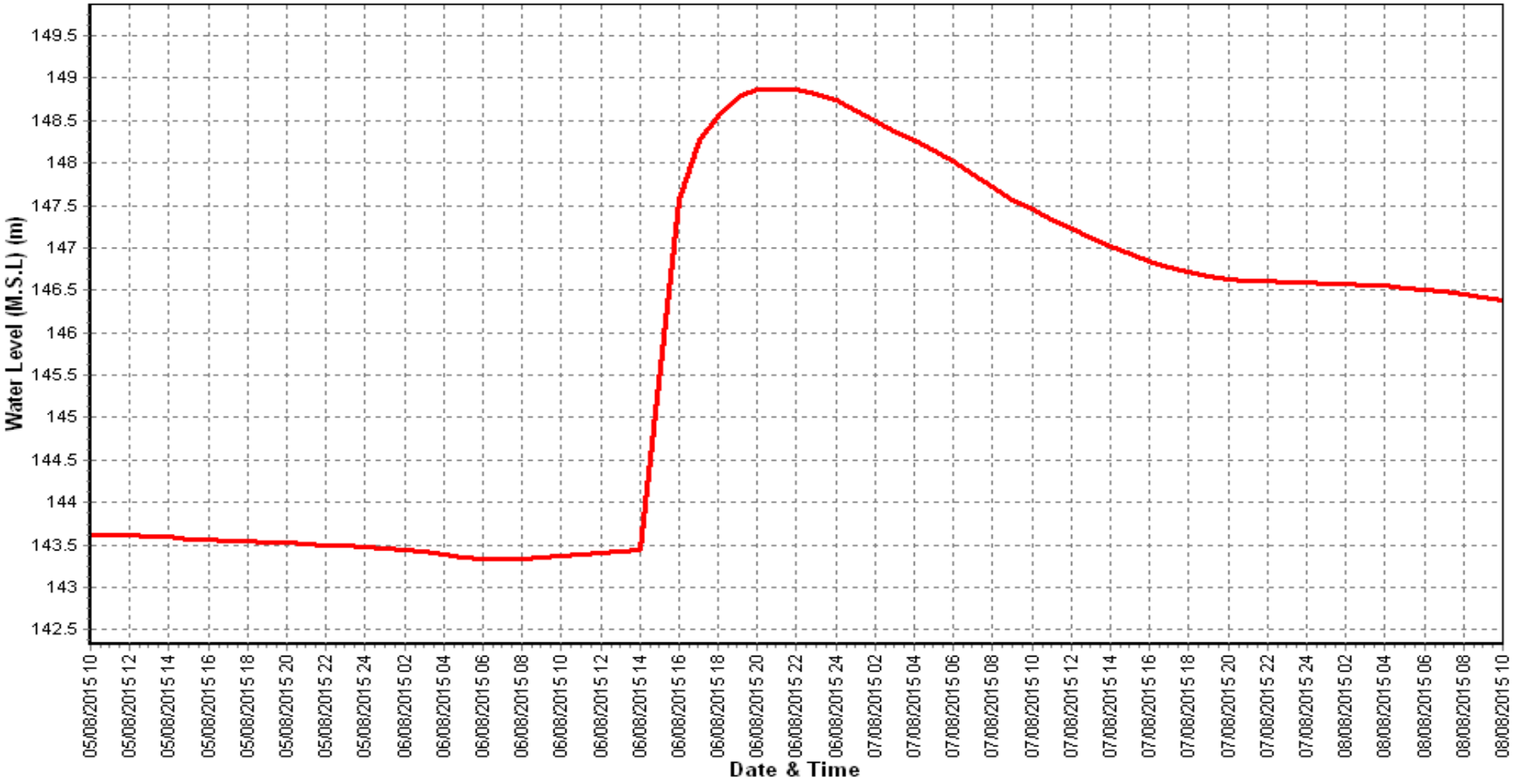


Time Span: 72 Hrs

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

Station Name : ASHTI (AGH40A4) **Division : Wainganga Div., Nagpur**

Local River : Wainganga **Sub-Division : L Wainganga SD, Chandrapur**

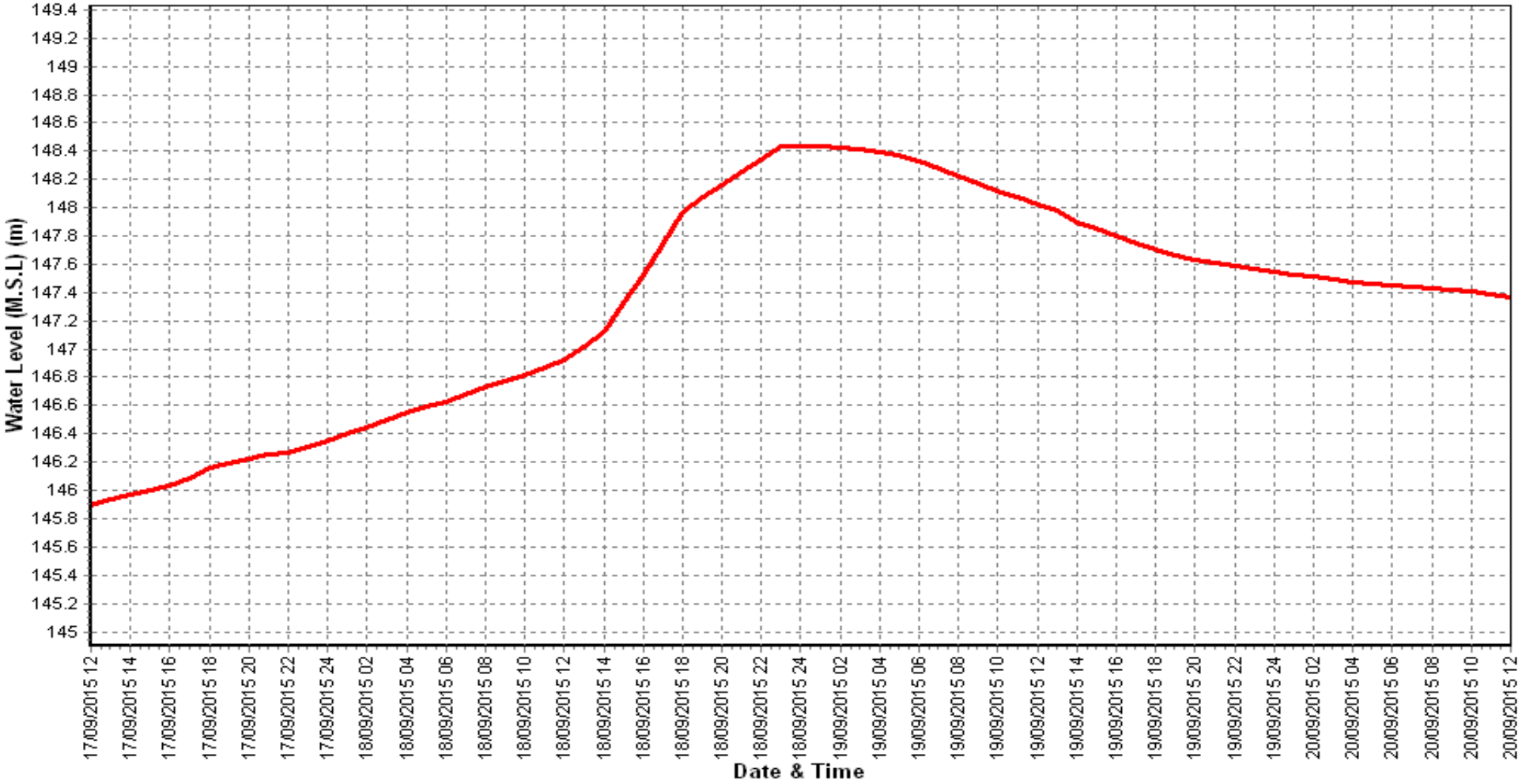


Time Span: 72 Hrs

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

Station Name : ASHTI (AGH40A4) **Division : Wainganga Div., Nagpur**

Local River : Wainganga **Sub-Division : L Wainganga SD, Chandrapur**



Time Span: 72 Hrs

HISTORY SHEET

			Water Year	:	**2015-2016**
Site	:	**RAJOLI**	**Code**	:	**AGH41Q4**
State	:	Maharashtra	District		Chandrapur
Basin	:	Godavari	Independent River	:	Godavari
Tributary	:	Pranhita	Sub Tributary	:	Wainganga
Sub-Sub Tributary	:	Andhari	Local River	:	Mul
Division	:	Wainganga Div., Nagpur	Sub-Division	:	Wardha SD, Chandrapur
Drainage Area	:	1900 Sq. Km.	Bank	:	Left
Latitude	:	20°11'37"	Longitude	:	79°39'59"
Zero of Gauge (m)	:	229 (m.s.l) 180.62 (m.s.l)	30.01.1985 01.06.1993	-	31.05.1993
		Opening Date	Closing Date		
Gauge	:	30.01.1985	**HFL During 2015-16**	:	**188.960**
			Corres. Discharge	:	**1418.293 Cumecs(Estimated)**
Discharge	:	25.06.1986	**Date & Time of**	:	**14.08.2015**
			Occurance	:	**04.00 hrs.**
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**
1986-1987	1830	239.615	14.08.1986	0.000		19.06.1986
1987-1988	252.6	235.110	29.08.1987	0.000	231.805	04.02.1988
1988-1989	617.4	236.140	27.07.1988	0.000		22.03.1989
1989-1990	393.3	235.300	01.09.1989	0.000		30.03.1990
1990-1991	1226	238.840	23.08.1990	0.000		17.03.1991
1991-1992	963.0	237.638	17.08.1991	0.000		03.03.1992
1992-1993	1354	238.920	22.08.1992	0.000		07.03.1993
1993-1994	583.6	187.285	02.08.1993	0.000		01.04.1994
1994-1995	1538	191.195	31.08.1994	0.000	183.195	17.04.1995
1995-1996	696.7	187.390	02.09.1995	0.000		20.02.1996
1996-1997	292.3	186.003	21.08.1996	0.000		05.02.1997
1997-1998	644.2	187.610	23.08.1997	0.000		25.03.1998
1998-1999	200.8	185.655	14.09.1998	0.000		01.03.1999
1999-2000	1227	189.385	03.08.1999	0.000		12.02.2000
2000-2001	1570	191.400	19.07.2000	0.000		19.02.2001
2001-2002	1076	189.520	15.08.2001	0.000		22.02.2002
2002-2003	902.7	188.660	24.08.2002	0.000		10.03.2003
2003-2004	734.8	187.275	24.08.2003	0.000	0.000	08.03.2004
2004-2005	491.4	186.260	06.08.2004	0.000		25.12.2004
2005-2006	1100	189.200	06.08.2005	0.000		19.03.2006
2006-2007	704.6	187.300	06.08.2006	0.000		04.04.2007

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**
2007-2008	2394	190.800	01.07.2007	0.176	182.700	20.01.2008
2008-2009	515.1	186.995	30.07.2008	0.059	182.890	18.01.2009
2009-2010	116.9	184.495	23.07.2009	0.001	182.650	24.01.2010
2010-2011	1381	189.030	07.08.2010	0.000		19.04.2011
2011-2012	734.0	187.480	08.09.2011	0.000		06.04.2012
2012-2013	1598	189.910	20.08.2012	0.000		05.04.2013
2013-2014	1562	189.960	01.08.2013	0.000		15.01.2014
2014-2015	652.5	187.275	23.07.2014	0.000	182.550	08.01.2015

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

Stage-Dischage Data for the period 2015 - 2016

Station Name : RAJOLI (AGH41Q4) **Division : Wainganga Div., Nagpur**

Local River : Mul **Sub-Division : Wardha SD, Chandrapur**

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	180.620	0.000	182.610	0.875	182.570	0.000	183.745	52.93	182.950	2.002	183.050	6.741 *
2	180.620	0.000	182.600	0.816	180.620	0.000	183.510	32.47	182.980	2.722 *	183.070	7.012
3	180.620	0.000	182.600	0.708	180.620	0.000	183.365	19.89	182.990	2.970	183.010	5.049
4	180.620	0.000	182.570	0.381 #	180.620	0.000	183.255	10.66	183.000	3.313 *	183.000	4.820
5	180.620	0.000	182.540	0.148 *	180.620	0.000	183.155	7.902	182.950	2.076	182.970	2.746 #
6	180.620	0.000	182.550	0.182	183.215	13.27	183.110	9.052 *	182.970	2.880	182.940	1.759 #
7	180.620	0.000	182.540	0.144	182.950	5.648	183.090	8.419 #	182.940	1.672 #	182.960	2.388 #
8	180.620	0.000	182.540	0.135	182.780	1.628 #	183.330	20.74	182.940	1.569	182.940	1.759 *
9	180.620	0.000	182.520	0.056	183.320	17.19 *	183.280	15.43 #	182.920	1.023	182.950	2.059 #
10	180.620	0.000	182.510	0.000	183.340	15.75	183.200	14.14	182.920	1.098	182.970	2.746 #
11	180.620	0.000	182.500	0.000	183.055	7.377	183.085	6.177	182.920	1.220 *	182.970	2.746 *
12	180.620	0.000	182.490	0.000	183.340	17.07	183.060	4.718	182.930	1.231	182.980	3.447
13	180.620	0.000	180.620	0.000	185.745	300.5	183.010	3.625 *	182.890	0.645 #	182.980	3.471
14	180.620	0.000	180.620	0.000	188.920	1400 *	183.020	3.283	182.870	0.413	182.970	2.754
15	180.620	0.000	180.620	0.000	185.160	214.4 *	182.960	1.670	182.860	0.250	182.970	2.746 *
16	180.620	0.000	180.620	0.000	184.270	89.80 *	183.195	11.58	182.860	0.258	182.960	2.288
17	180.620	0.000	180.620	0.000	183.920	56.02 #	183.900	59.61 *	182.840	0.039 #	182.970	2.511
18	180.620	0.000	180.620	0.000	183.765	40.34	186.095	332.2	182.800	0.000	182.970	2.469
19	180.620	0.000	180.620	0.000	183.800	43.57	184.585	139.7	180.620	0.000	182.960	2.107
20	180.620	0.000	180.620	0.000	183.900	56.46	183.920	61.37 *	180.620	0.000	182.950	1.987
21	180.620	0.000	180.620	0.000	183.660	32.78	183.610	42.83	180.620	0.000	182.940	2.153
22	183.915	60.37	180.620	0.000	183.510	24.74	183.470	29.83	180.620	0.000	182.940	1.759 *
23	183.640	45.02	180.620	0.000	183.420	22.04 *	183.320	17.48 #	180.620	0.000	182.950	1.924
24	183.165	16.50	184.020	59.23	183.360	19.05 #	183.220	14.01	180.620	0.000	182.940	1.740
25	182.940	7.823	184.365	105.5	183.260	14.58 #	183.130	8.086 *	180.620	0.000	182.940	1.759 *
26	182.830	6.295	183.470	24.70 *	183.210	12.59 #	183.070	5.350	180.620	0.000	182.940	1.661
27	182.750	3.269 #	183.180	9.682	183.160	10.74 #	183.020	3.946 *	180.620	0.000	182.930	1.557
28	182.670	1.705 *	182.915	4.299	183.830	50.91	182.970	2.384	180.620	0.000	182.940	1.727
29	182.660	1.356	182.785	2.009	184.150	80.05	182.960	2.268	180.620	0.000	182.940	1.759 *
30	182.640	1.072	182.690	0.675 #	184.850	164.6 *	183.015	3.244	180.620	0.000	182.940	1.663
31			182.600	0.132	184.115	85.42			180.620	0.000		
Daily Mean												
Ten-Dai	180.620	0.000	182.558	0.345	182.065	5.348	183.304	19.16	182.956	2.133	182.986	3.708
Ten-Da	180.620	0.000	180.995	0.000	184.588	222.5	183.683	62.40	182.421	0.405	182.968	2.653
Ten-Da	182.783	14.34	182.535	18.75	183.684	47.04	183.178	12.94	180.620	0.000	182.940	1.770
Monthly												
Min.	180.620	0.000	180.620	0.000	180.620	0.000	182.960	1.670	180.620	0.000	182.930	1.557
Max.	183.915	60.37	184.365	105.5	188.920	1400	186.095	332.2	183.000	3.313	183.070	7.012
Mean	181.341	4.78	182.046	6.765	183.453	90.2	183.389	31.5	181.955	0.819	182.965	2.71

Annual Runoff in MCM = 364 Annual Runoff in mm = 191

Peak Observed Discharge = 332.2 cumecs on 18-09-2015 Corres. Water Level :186.095 m

Lowest Observed Discharge = 0.000 cumecs on 01-06-2015 Corres. Water Level :180.62 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-Dischage Data for the period 2015 - 2016

Station Name : RAJOLI (AGH41Q4) **Division : Wainganga Div., Nagpur**

Local River : Mul **Sub-Division : Wardha SD, Chandrapur**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	182.940	1.611	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000
2	182.930	1.219	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000
3	182.930	1.016	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000
4	182.920	1.048	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000
5	182.920	1.092	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000
6	182.920	0.963 *	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000
7	182.910	0.777 #	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000
8	182.900	0.488	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000
9	182.890	0.439	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000
10	182.890	0.419	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000
11	182.880	0.286	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000
12	182.860	0.122	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000
13	182.860	0.000	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000
14	182.850	0.000	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000
15	182.850	0.000	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000
16	182.850	0.000	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000
17	182.850	0.000	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000
18	182.860	0.000	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000
19	182.920	0.000	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000
20	182.920	0.000	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000
21	182.920	0.000	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000
22	182.920	0.000	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000
23	182.820	0.000	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000
24	182.820	0.000	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000
25	182.830	0.000	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000
26	182.830	0.000	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000
27	182.830	0.000	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000
28	182.830	0.000	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000
29	182.820	0.000	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000
30	182.820	0.000	180.620	0.000			180.620	0.000	180.620	0.000	180.620	0.000
31	182.820	0.000	180.620	0.000			180.620	0.000				0.000
Daily M												
Ten-Dai	182.915	0.907	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000
Ten-Da	182.870	0.041	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000
Ten-Da	182.842	0.000	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000
Monthl												
Min.	182.820	0.000	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000
Max.	182.940	1.611	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000
Mean	182.875	0.306	180.620	0	180.620	0	180.620	0	180.620	0	180.620	0

Peak Computed Discharge = 1400 cumecs on 14-08-2015 Corres. Water Level :188.92 m

Lowest Computed Discharge = 0.148 cumecs on 05-07-2015 Corres. Water Level :182.54 m

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

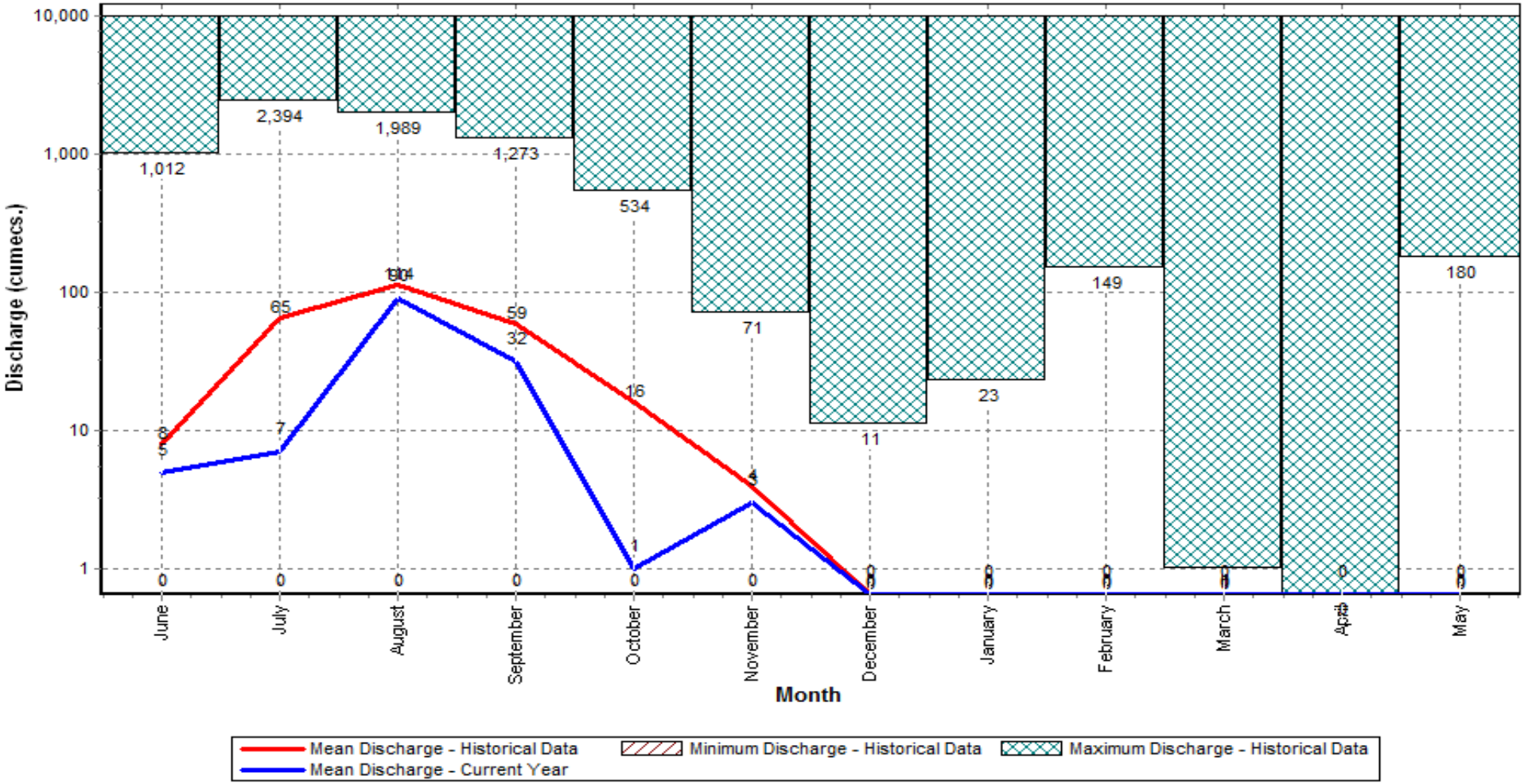
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016

Station Name : RAJOLI (AGH41Q4) | **Data considered : 1986-2016** | **Division : Wainganga Div., Nagpur**

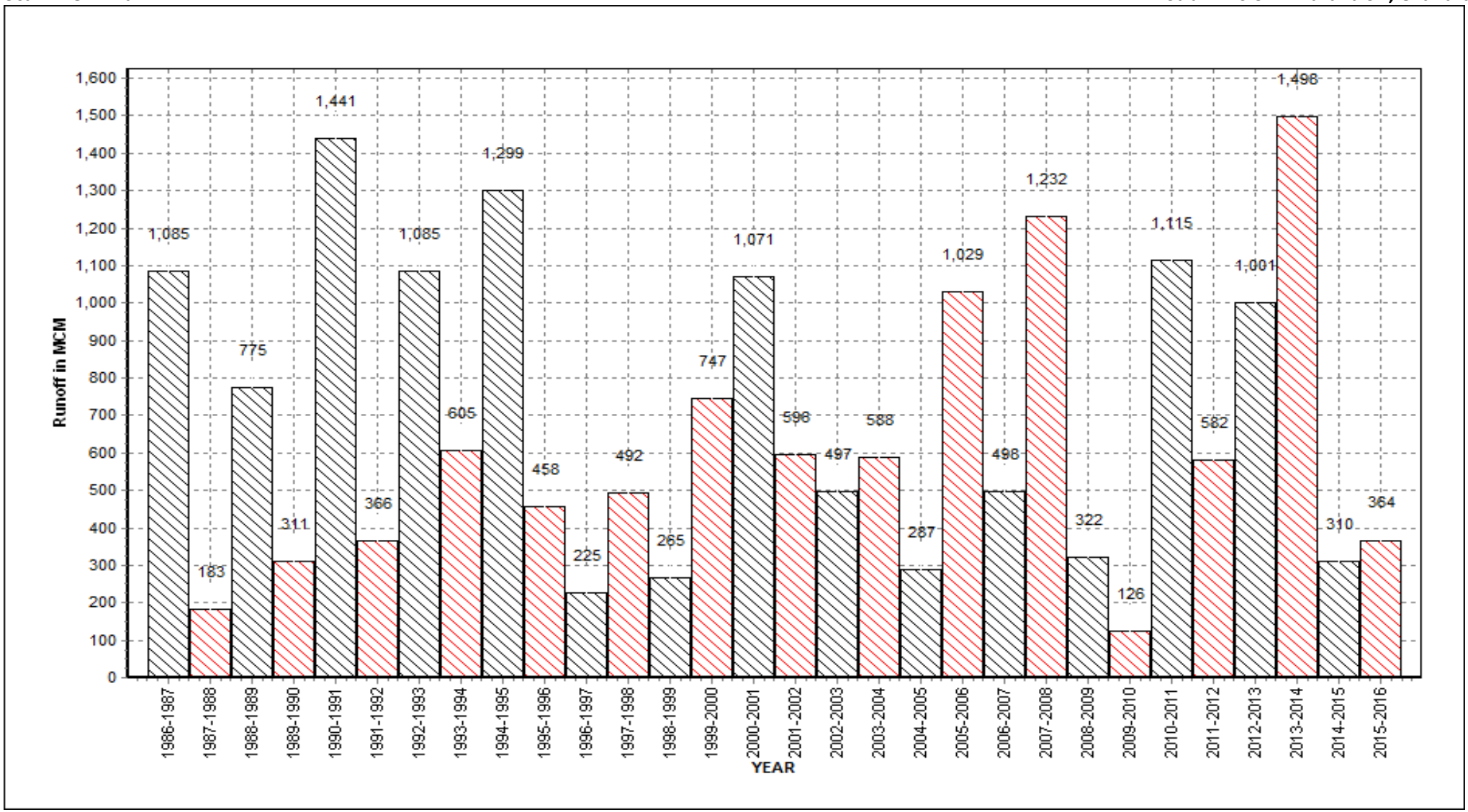
Local River : Mul | **Sub-Division : Wardha SD, Chandrapur**



Annual Runoff Values for the period: 1986 - 2016

Station Name : RAJOLI (AGH41Q4) **Division : Wainganga Div., Nagpur**

Local River : Mul **Sub-Division : Wardha SD, Chandrapur**



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

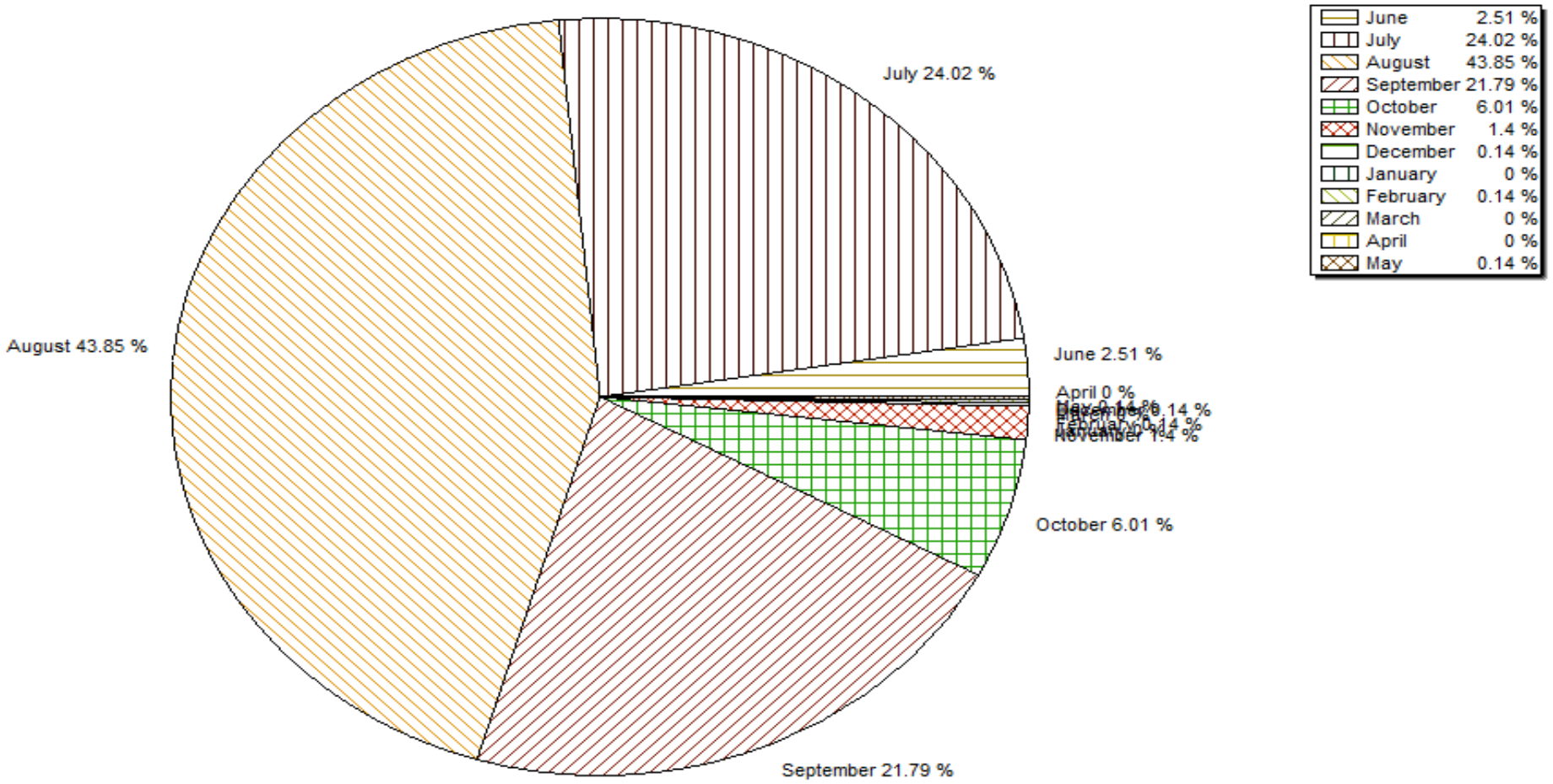
Monthly Average Runoff based on period : 1986-2015

Station Name : RAJOLI (AGH41Q4)

Local River : Mul

Division : Wainganga Div., Nagpur

Sub-Division : Wardha SD, Chandrapur



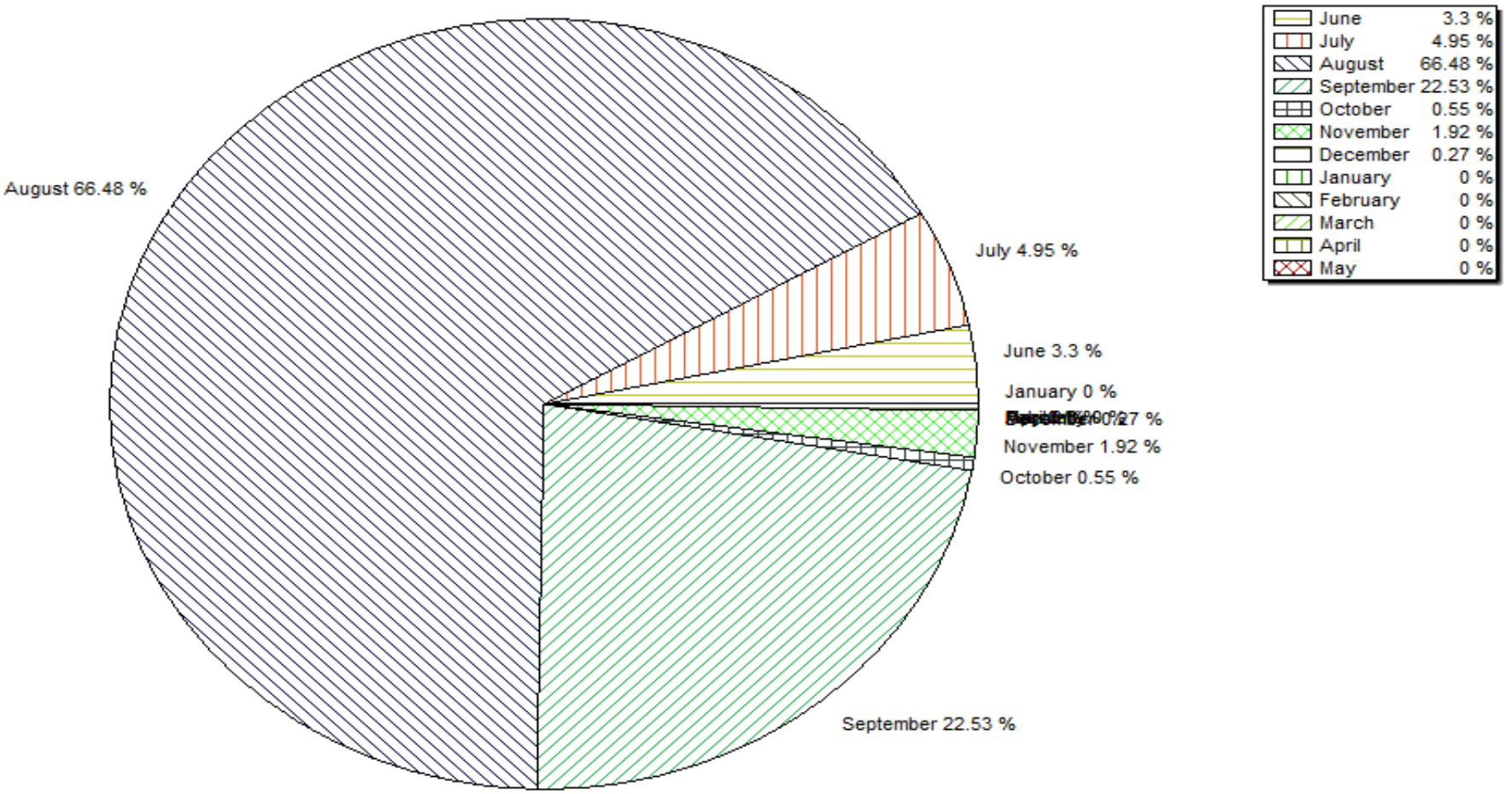
Monthly Runoff for the Year : 2015-2016

Station Name : RAJOLI (AGH41Q4)

Local River : Mul

Division : Wainganga Div., Nagpur

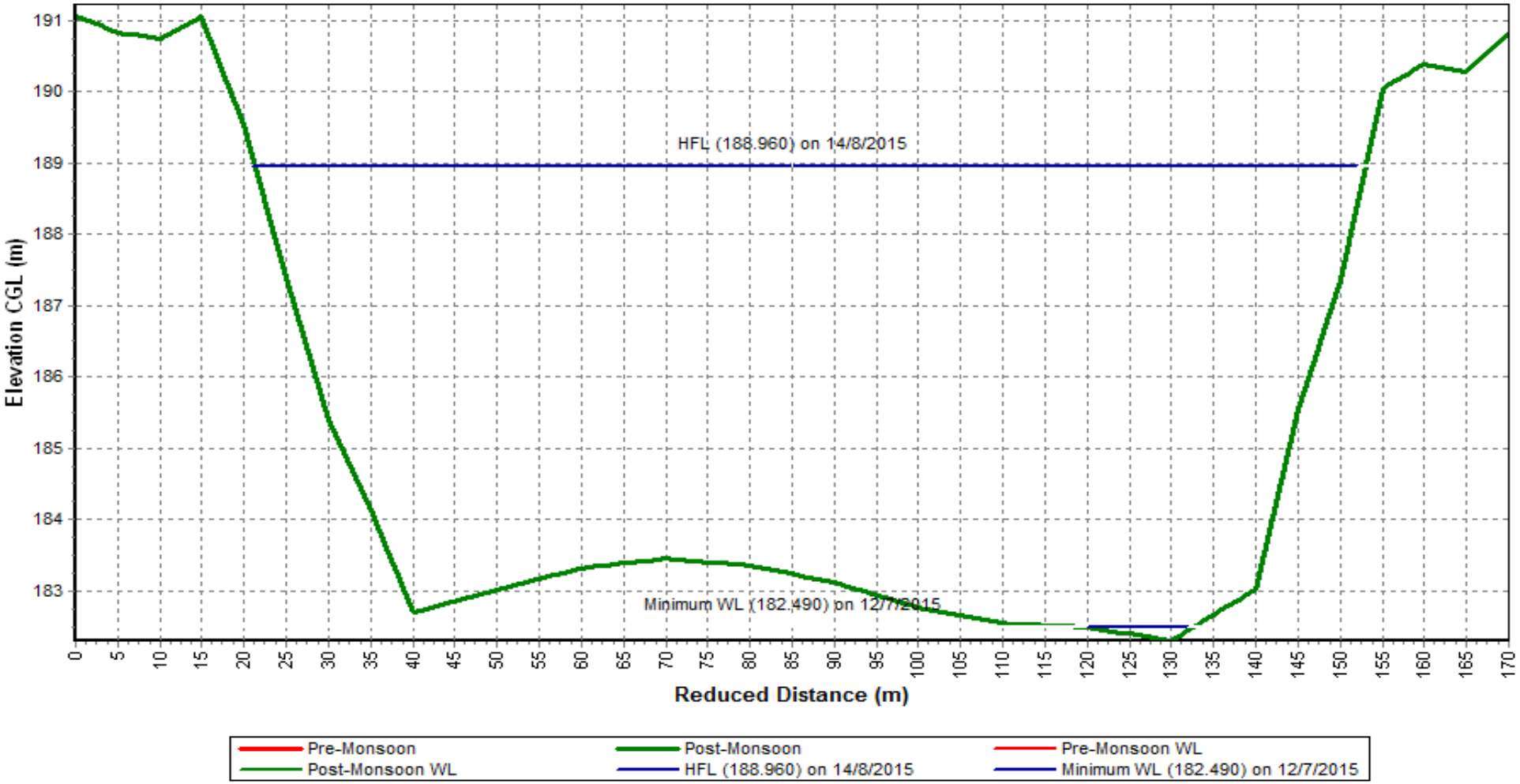
Sub-Division : Wardha SD, Chandrapur



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

Station Name : RAJOLI (AGH41Q4) **Division : Wainganga Div., Nagpur**

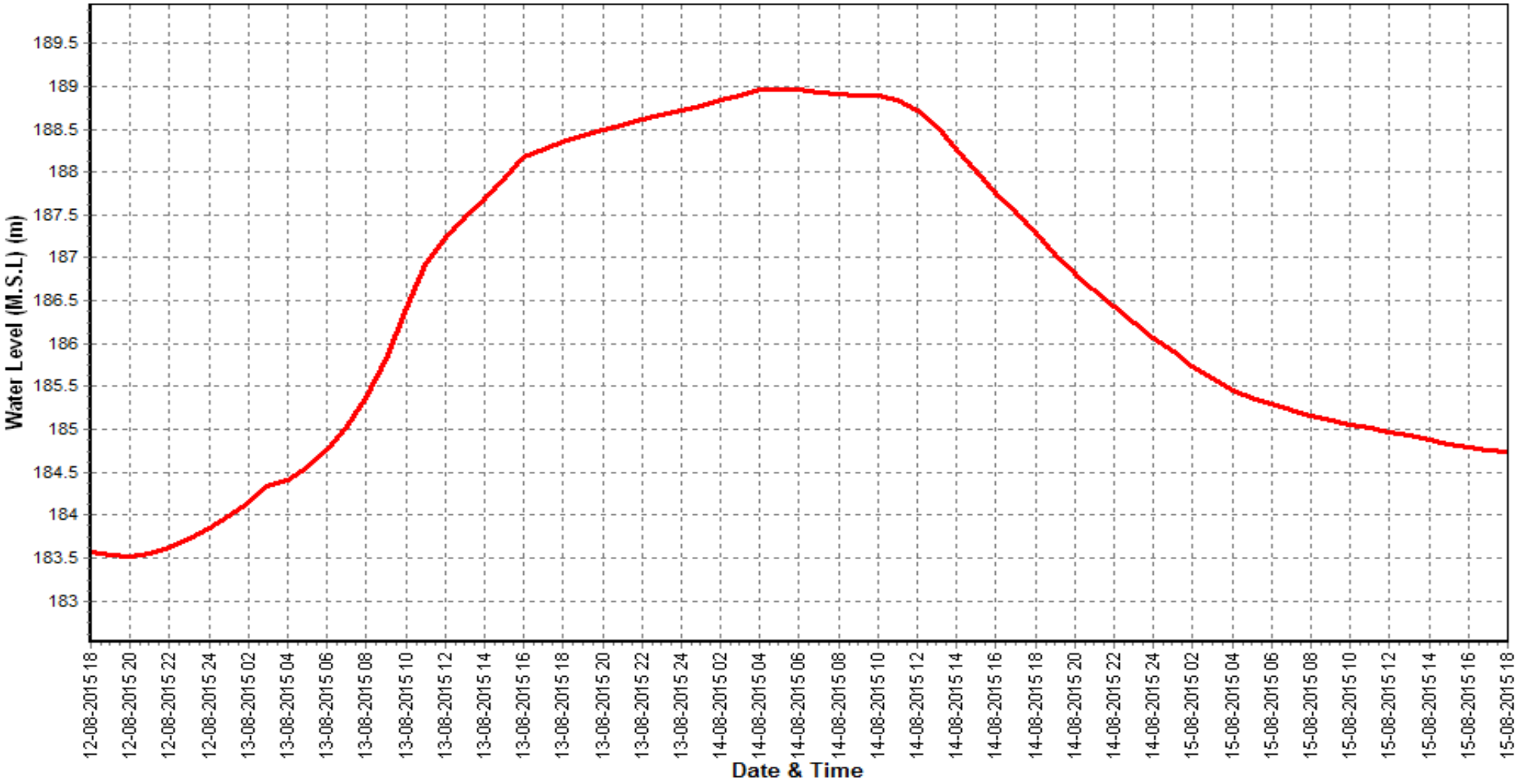
Local River : Mul **Sub-Division : Wardha SD, Chandrapur**



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

Station Name : RAJOLI (AGH41Q4) **Division : Wainganga Div., Nagpur**

Local River : Mul **Sub-Division : Wardha SD, Chandrapur**

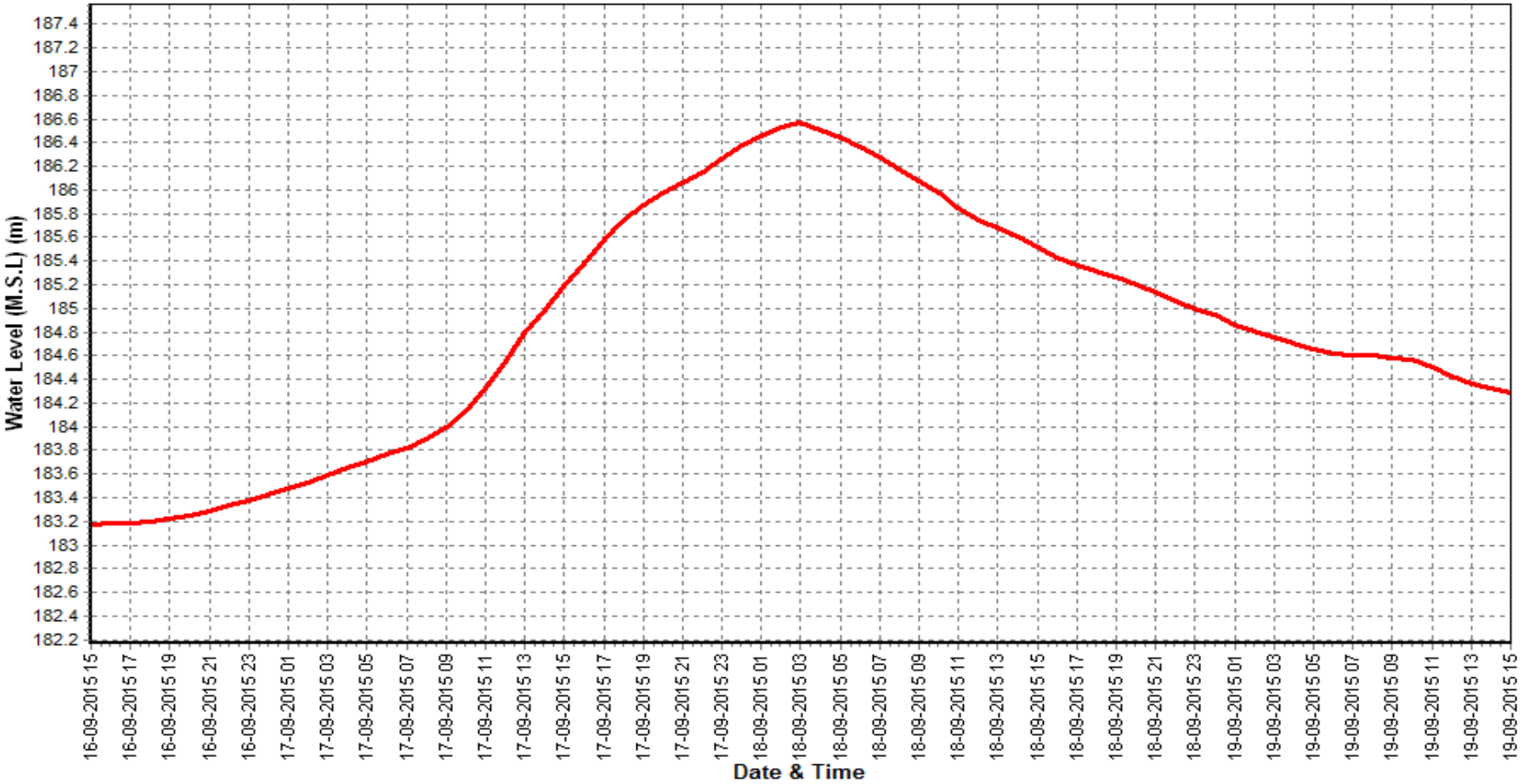


Time Span: 72 Hrs

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

Station Name : RAJOLI (AGH41Q4) **Division : Wainganga Div., Nagpur**

Local River : Mul **Sub-Division : Wardha SD, Chandrapur**

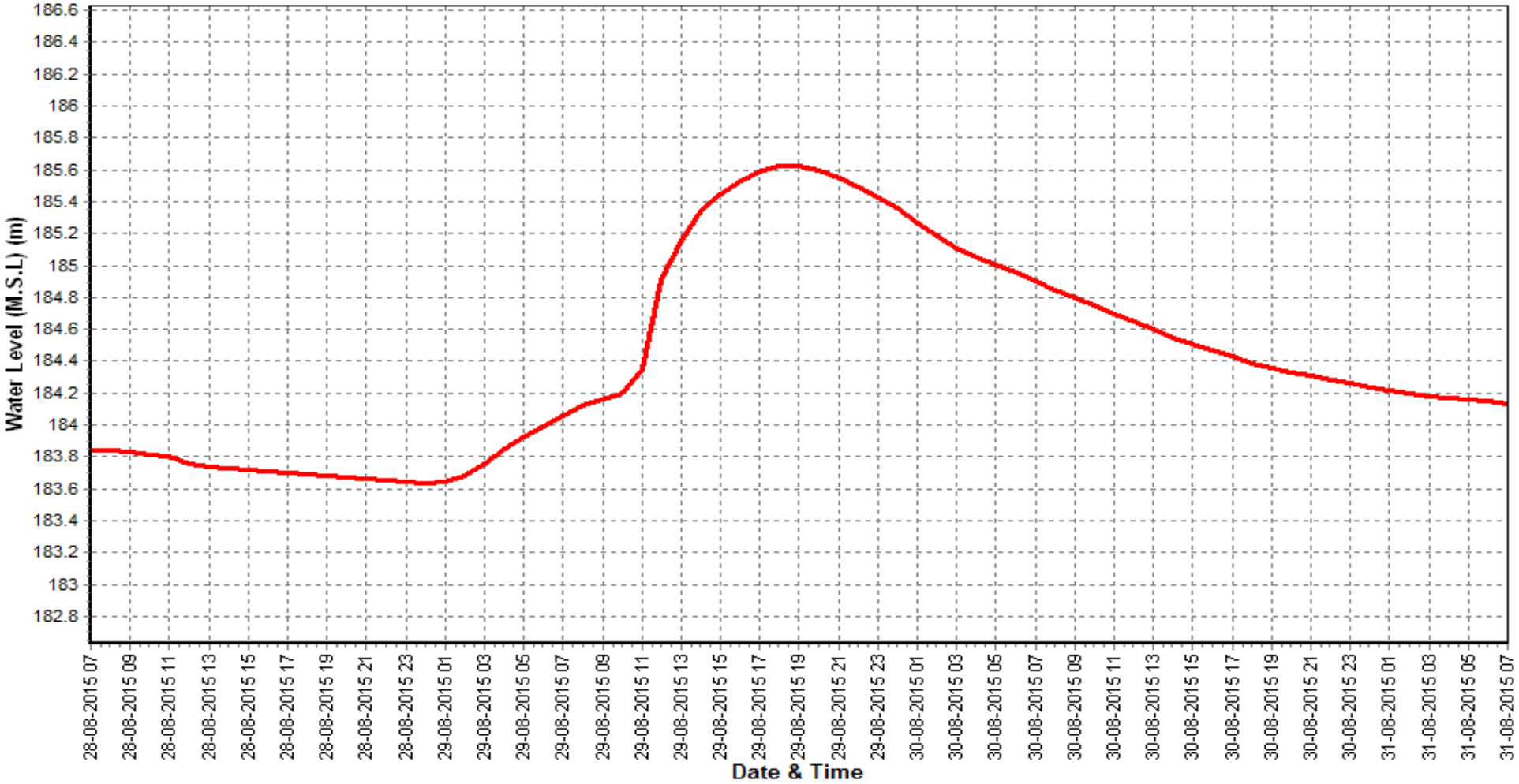


Time Span: 72 Hrs

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

Station Name : RAJOLI (AGH41Q4) **Division : Wainganga Div., Nagpur**

Local River : Mul **Sub-Division : Wardha SD, Chandrapur**



Time Span: 72 Hrs

HISTORY SHEET

Water Year : 2015-2016

Site	**: WAIRAGARH**		**Code**	**: AGH46D4**	
State	: Maharashtra		District	Gadchiroli	
Basin	: Godavari		Independent River	: Godavari	
Tributary	: Pranhita		Sub Tributary	: Wainganga	
Sub-Sub Tributary	: Khobragarhi		Local River	: Khobragarhi	
Division	: Wainganga Div., Nagpur		Sub-Division	: L Wainganga SD, Chandrapur	
Drainage Area	: 2600 Sq. Km.		Bank	: Right	
Latitude	: 20°25'19"		Longitude	: 80°05'30"	
Zero of Gauge (m)	: 95 (m.s.l) 208.705 (m.s.l)		18.07.1992 01.06.1996	- 31.05.1996	
	Opening Date		Closing Date		
Gauge	: 18.07.1992		**HFL During 2015-16**	**: 213.205**	
			Corres. Discharge	**: 521.4959 Cumecs(Estimated)**	
Discharge	: 07.08.1992		**Date & Time of Occurance**	**: 17.09.2015 : 20.00 hrs.**	
Sediment	:				
Water Quality	: 01.10.2014				

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

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1993-1994	485.5	97.480	04.08.1993	0.000		20.02.1994
1994-1995	1405	100.750	11.07.1994	0.000		07.04.1995
1995-1996	766.8	98.600	02.09.1995	0.000		29.02.1996
1996-1997	455.0	213.435	02.08.1996	0.000		09.02.1997
1997-1998	418.1	213.000	12.09.1997	0.000	210.315	04.04.1998
1998-1999	363.7	212.740	13.09.1998	0.000		19.02.1999
1999-2000	299.2	212.505	09.08.1999	0.000		28.02.2000
2000-2001	1736	214.605	18.07.2000	0.000		06.02.2001
2001-2002	1543	213.955	14.06.2001	0.000		10.02.2002
2002-2003	960.0	213.275	24.08.2002	0.000	210.345	12.02.2003
2003-2004	659.7	212.880	03.08.2003	0.000	209.995	02.04.2004
2004-2005	1002	213.535	22.08.2004	0.000		06.03.2005
2005-2006	985.0	214.005	06.08.2005	0.000		11.03.2006
2006-2007	1124	214.235	31.08.2006	0.000		01.03.2007
2007-2008	2732	215.905	07.08.2007	0.002	210.725	17.01.2008
2008-2009	1011	214.305	01.08.2008	0.009	210.715	14.12.2008
2009-2010	565.5	213.355	16.07.2009	0.011	210.885	10.01.2010
2010-2011	933.6	214.065	07.08.2010	0.000		15.02.2011
2011-2012	1330	214.455	07.09.2011	0.000		01.02.2012
2012-2013	2104	215.005	05.09.2012	0.000		26.04.2013
2013-2014	2351	215.105	23.07.2013	0.000		12.04.2014
2014-2015	1144	214.095	23.07.2014	0.000	210.815	07.02.2015

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

Stage-Dischage Data for the period 2015 - 2016

Station Name : WAIRAGARH (AGH46D4) **Division : Wainganga Div., Nagpur**

Local River : Khobragarhi **Sub-Division : L Wainganga SD, Chandrapur**

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	208.705	0.000	211.118	3.352	211.225	2.327	211.790	60.55	211.175	10.51	210.955	2.512 *
2	208.705	0.000	211.215	6.031	211.205	2.045 *	211.680	36.34	211.175	9.874 *	210.935	2.090
3	208.705	0.000	211.195	5.715 #	211.155	1.130 #	211.635	33.85	211.165	9.356	210.935	2.145
4	208.705	0.000	211.055	3.197	211.185	1.896	211.500	24.63	211.165	9.308 *	210.925	1.897
5	208.705	0.000	211.015	2.052 *	211.198	2.189	211.415	20.39	211.155	8.813	210.905	1.314 #
6	208.705	0.000	210.995	1.673	211.235	2.460	211.375	16.06 *	211.135	7.981	210.905	1.314 #
7	208.705	0.000	210.965	1.086	211.255	3.105	211.335	12.92	211.115	6.749	210.895	1.416
8	208.705	0.000	210.945	1.023	211.670	38.75	211.350	14.47	211.085	5.768	210.885	0.958 *
9	208.705	0.000	210.925	0.924	211.785	45.55 *	211.425	20.86	211.075	5.188	210.875	0.745
10	208.705	0.000	210.950	1.013	211.540	19.17	211.345	14.42	211.065	3.677	210.875	0.718
11	208.705	0.000	211.175	5.240 #	211.430	11.65	211.285	11.88	211.055	4.340 *	210.865	0.665 *
12	208.705	0.000	211.325	9.100 *	211.730	34.34	211.245	8.185	211.035	2.893	210.855	0.545
13	208.705	0.000	211.215	6.195 #	212.260	165.9	211.225	7.713 *	211.015	2.474	210.855	0.538
14	208.705	0.000	211.415	11.76 #	212.180	99.95	211.255	8.323	210.995	2.270	210.845	0.460
15	208.705	0.000	211.265	7.550 #	211.895	62.43 *	211.520	25.08	210.985	2.173	210.845	0.435 *
16	208.705	0.000	211.155	5.805	211.765	42.79 *	211.440	24.29	210.995	2.234	210.835	0.315
17	208.705	0.000	211.080	3.441	211.635	28.09	211.935	84.24 *	210.995	2.328	210.835	0.309
18	208.705	0.000	211.015	2.052 *	211.545	19.88	212.535	252.5	210.975	2.042 *	210.825	0.266
19	210.905	0.000 *	211.025	2.219 *	211.525	19.29	211.920	84.80	210.955	1.648	210.825	0.245
20	210.895	0.000 *	211.185	1.643 #	211.775	38.49	211.685	45.97 *	210.945	1.407	210.815	0.212
21	211.375	0.000 *	211.680	30.31	211.635	28.95	211.860	79.11	210.925	1.374	210.805	0.135 #
22	212.895	0.000 *	211.525	17.65	211.535	19.27	211.655	43.63	210.925	1.097 *	210.795	0.090 *
23	212.475	0.000 *	211.405	11.12	211.455	12.48 *	211.530	29.37	210.915	0.949 #	210.795	0.090 #
24	212.075	0.000 *	211.635	25.80	211.395	8.977 #	211.485	27.66	210.915	0.949 *	210.785	0.055 #
25	211.475	13.35 *	211.565	20.86	211.345	6.573 #	211.415	29.93 *	210.905	0.813 *	210.775	0.034 *
26	211.375	9.682 *	211.465	13.25 *	211.305	4.963 #	211.345	26.69	210.905	0.813 #	210.775	0.034 #
27	211.205	5.734 *	211.438	10.85	211.305	4.963 #	211.295	18.28 *	210.885	0.632	210.775	0.034 #
28	211.165	5.010 *	211.365	7.704	212.065	108.7	211.255	15.98	210.875	0.552	210.765	0.013 #
29	211.125	3.373 *	211.325	5.077	211.995	92.41	211.235	14.87	210.875	0.536	210.765	0.013 *
30	211.105	3.243 *	211.275	3.361	212.515	230.2 *	211.205	12.96	210.915	0.850	210.755	0.005 #
31			211.245	2.801	212.080	109.6			210.965	2.262		
Daily Mean												
Ten-Da	208.705	0.000	211.038	2.607	211.345	11.86	211.485	25.45	211.131	7.722	210.909	1.511
Ten-Da	209.144	0.000	211.186	5.500	211.774	52.28	211.605	55.30	210.995	2.381	210.840	0.399
Ten-Da	211.627	4.039	211.447	13.53	211.694	57.01	211.428	29.85	210.910	0.984	210.779	0.050
Monthly												
Min.	208.705	0.000	210.925	0.924	211.155	1.130	211.205	7.713	210.875	0.536	210.755	0.005
Max.	212.895	13.35	211.680	30.31	212.515	230.2	212.535	252.5	211.175	10.51	210.955	2.512
Mean	209.825	1.346	211.231	7.415	211.607	40.92	211.506	36.86	211.009	3.608	210.843	0.653

Annual Runoff in MCM = 240 Annual Runoff in mm = 92

Peak Observed Discharge = 252.5 cumecs on 18-09-2015 Corres. Water Level :212.535 m

Lowest Observed Discharge = 0.000 cumecs on 01-06-2015 Corres. Water Level :208.705 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-Dischage Data for the period 2015 - 2016

Station Name : WAIRAGARH (AGH46D4) **Division : Wainganga Div., Nagpur**

Local River : Khobragarhi **Sub-Division : L Wainganga SD, Chandrapur**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	210.755	0.068	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000
2	210.755	0.065	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000
3	210.755	0.064	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000
4	210.755	0.064	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000
5	210.755	0.055	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000
6	210.755	0.048 *	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000
7	210.755	0.046	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000
8	210.745	0.038	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000
9	210.745	0.034	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000
10	210.745	0.033	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000
11	210.735	0.000 *	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000
12	210.735	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000
13	210.725	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000
14	210.725	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000
15	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000
16	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000
17	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000
18	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000
19	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000
20	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000
21	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000
22	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000
23	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000
24	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000
25	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000
26	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000
27	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000
28	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000
29	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000
30	208.705	0.000	208.705	0.000			208.705	0.000	208.705	0.000	208.705	0.000
31	208.705	0.000	208.705	0.000			208.705	0.000			208.705	0.000
Daily M												
Ten-Da	210.752	0.051	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000
Ten-Da	209.515	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000
Ten-Da	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000
Monthl												
Min.	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000
Max.	210.755	0.068	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000
Mean	209.627	0.017	208.705	0	208.705	0	208.705	0	208.705	0	208.705	0

Peak Computed Discharge = 230.2 cumecs on 30-08-2015 Corres. Water Level :212.515 m

Lowest Computed Discharge = 0.000 cumecs on 19-06-2015 Corres. Water Level :210.905 m

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

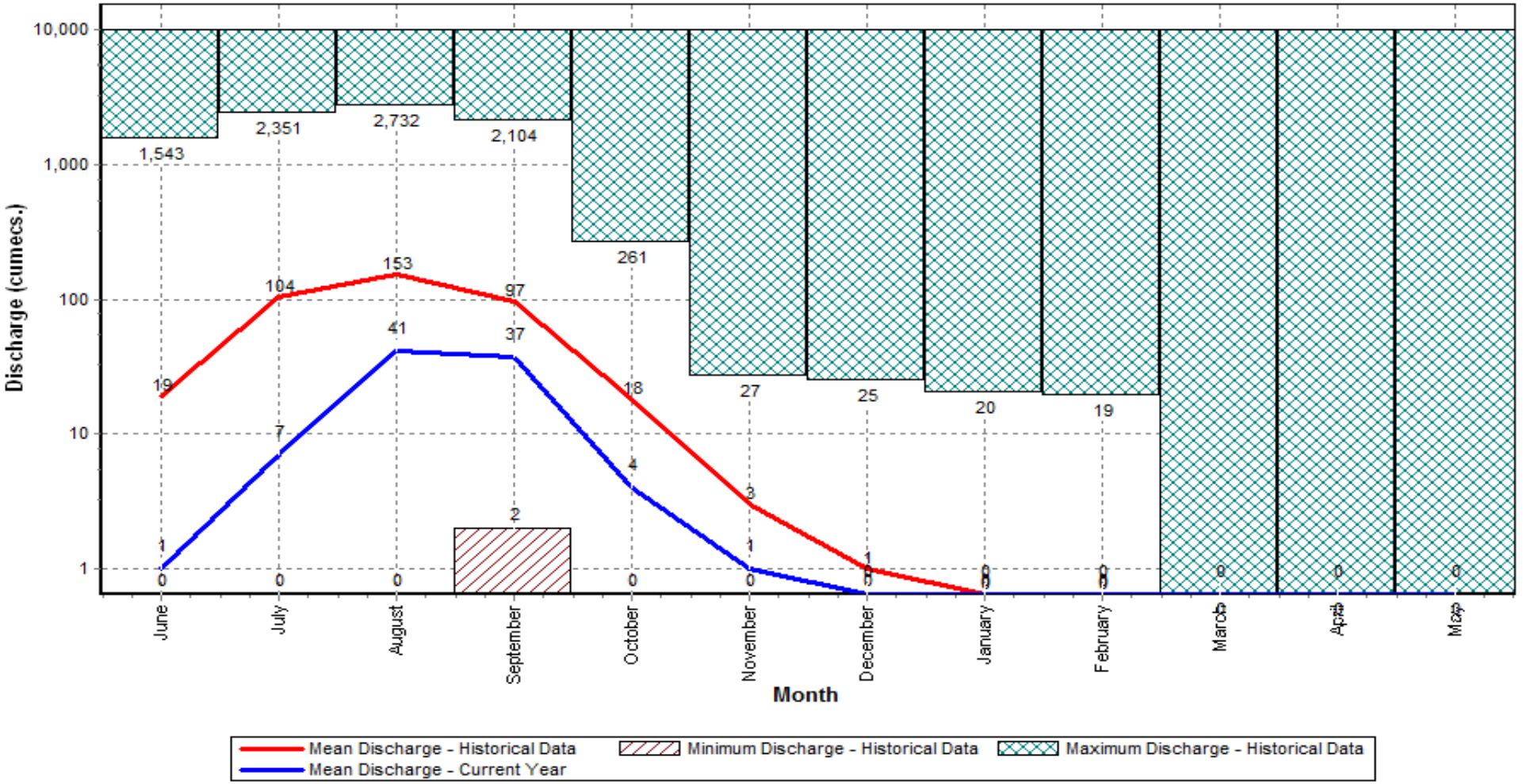
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016

Station Name : WAIRAGARH (AGH46D4) **Data considered : 1993-2016** **Division : Wainganga Div., Nagpur**

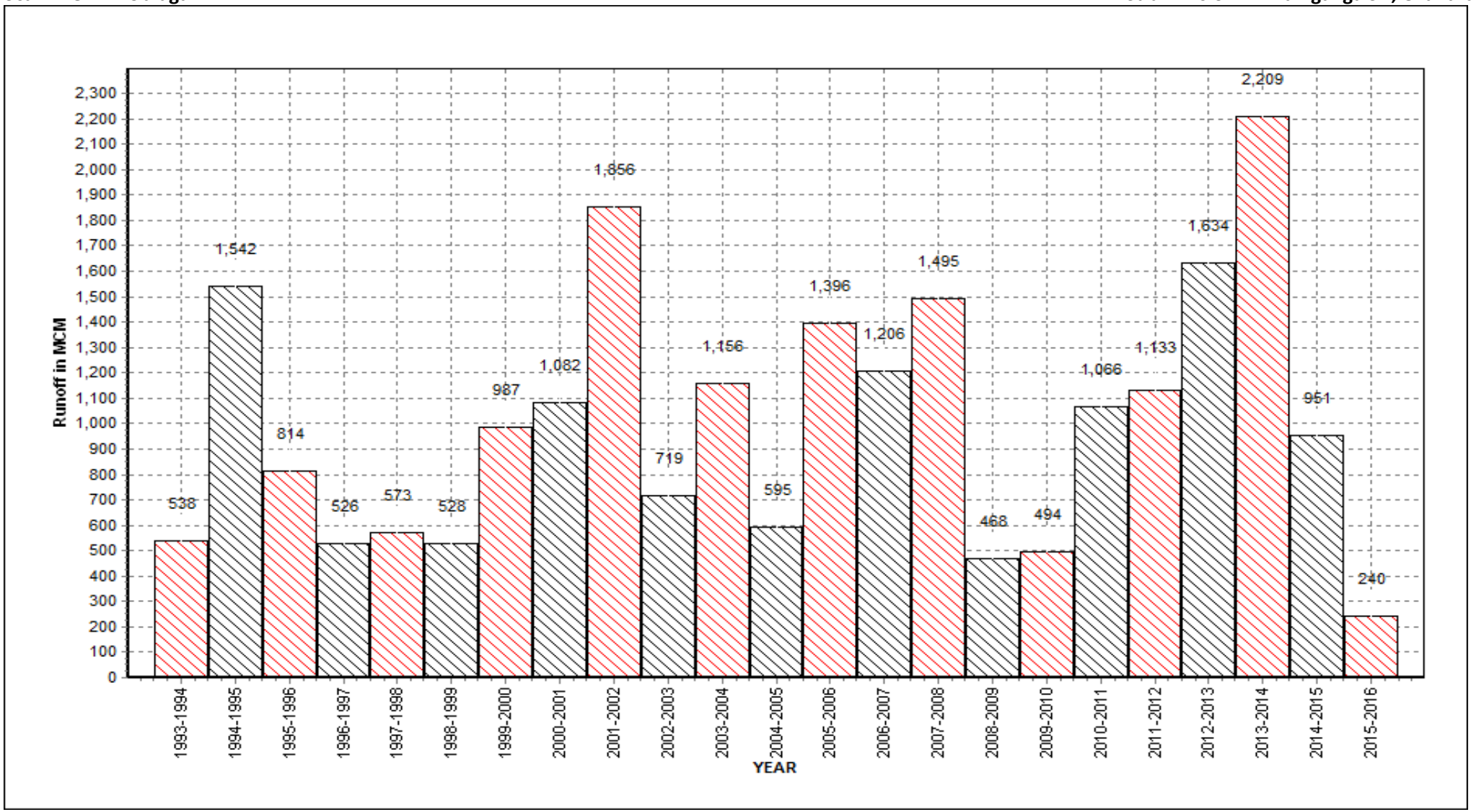
Local River : Khobragarhi **Sub-Division : L Wainganga SD, Chandrapur**



Annual Runoff Values for the period: 1993 - 2016

Station Name : WAIRAGARH (AGH46D4) **Division : Wainganga Div., Nagpur**

Local River : Khobragarhi **Sub-Division : L Wainganga SD, Chandrapur**



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

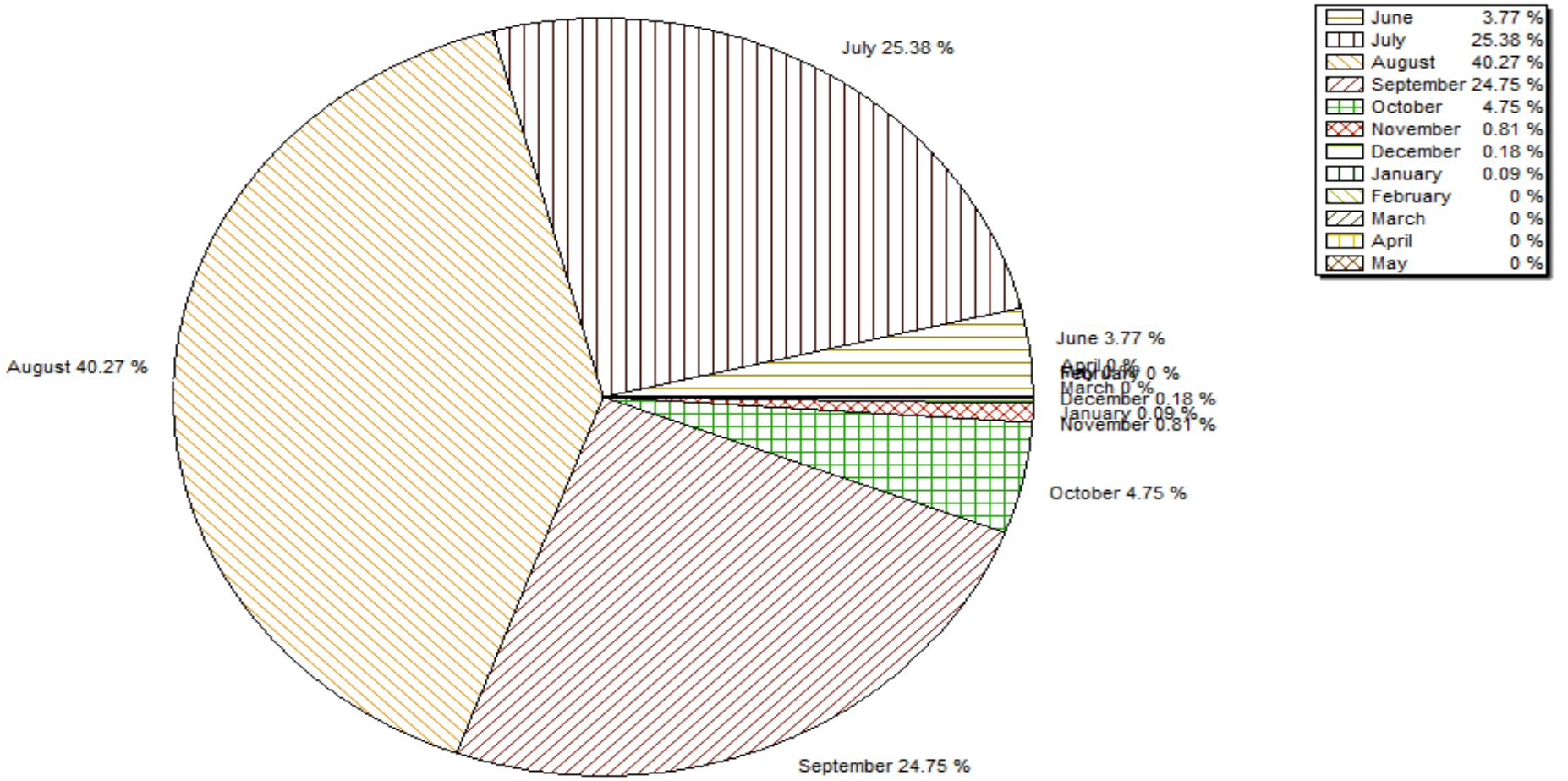
Monthly Average Runoff based on period : 1993-2015

Station Name : WAIRAGARH (AGH46D4)

Local River : Khobragarhi

Division : Wainganga Div., Nagpur

Sub-Division : L Wainganga SD, Chandrapur



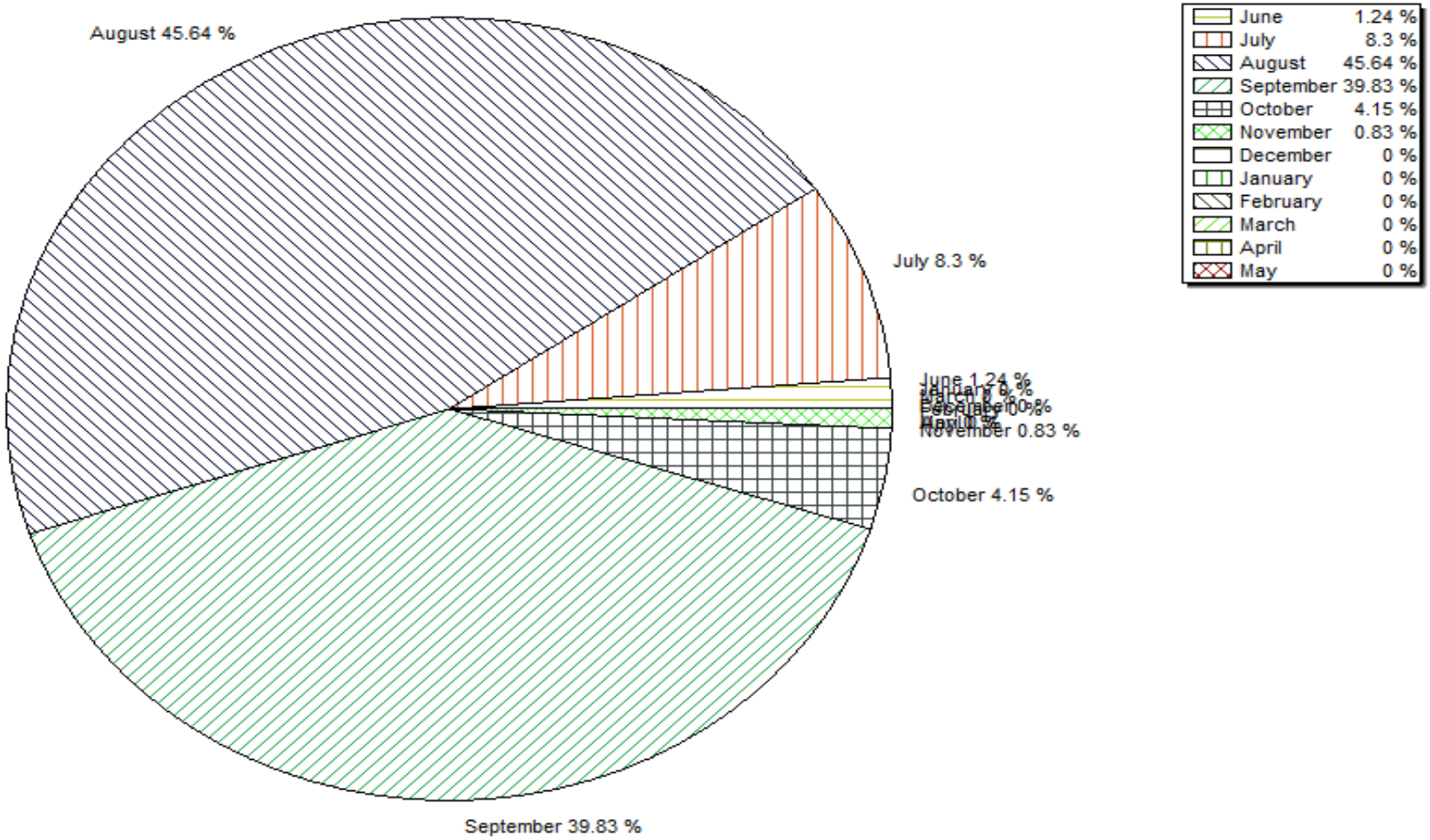
Monthly Runoff for the Year : 2015-2016

Station Name : WAIRAGARH (AGH46D4)

Division : Wainganga Div., Nagpur

Local River : Khobragarhi

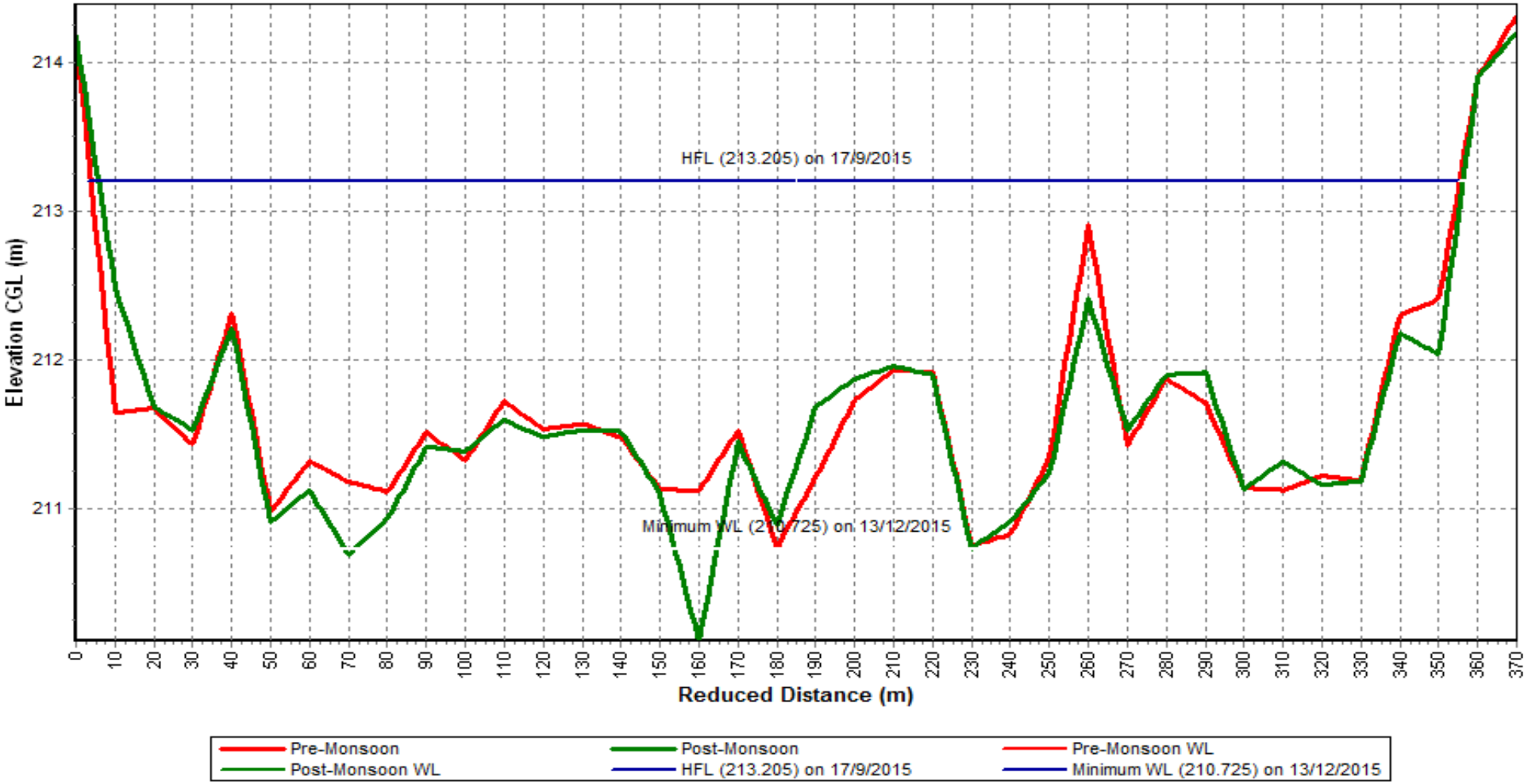
Sub-Division : L Wainganga SD, Chandrapur



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

Station Name : WAIRAGARH (AGH46D4) **Division : Wainganga Div., Nagpur**

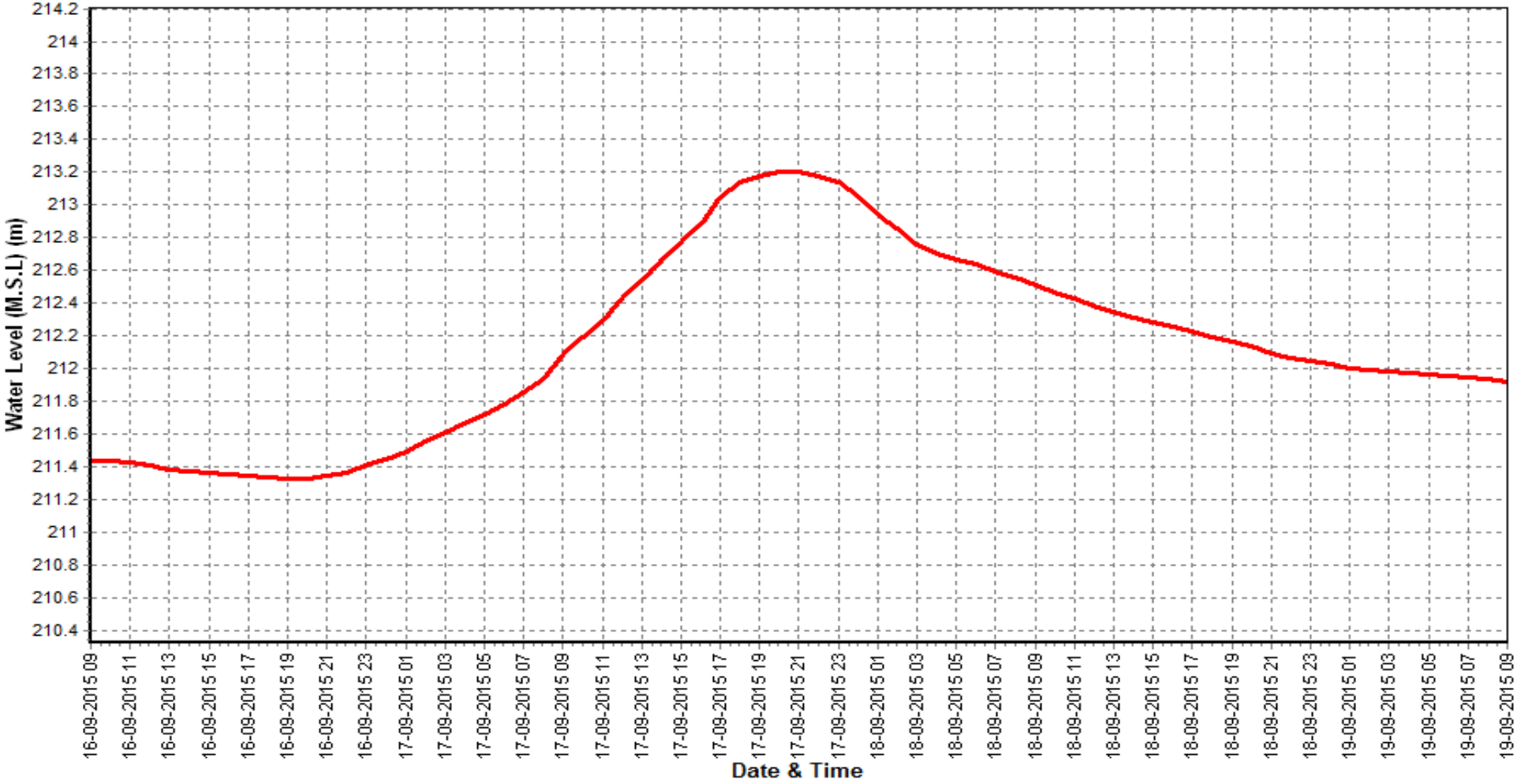
Local River : Khobragarhi **Sub-Division : L Wainganga SD, Chandrapur**



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

Station Name : WAIRAGARH (AGH46D4) **Division : Wainganga Div., Nagpur**

Local River : Khobragarhi **Sub-Division : L Wainganga SD, Chandrapur**

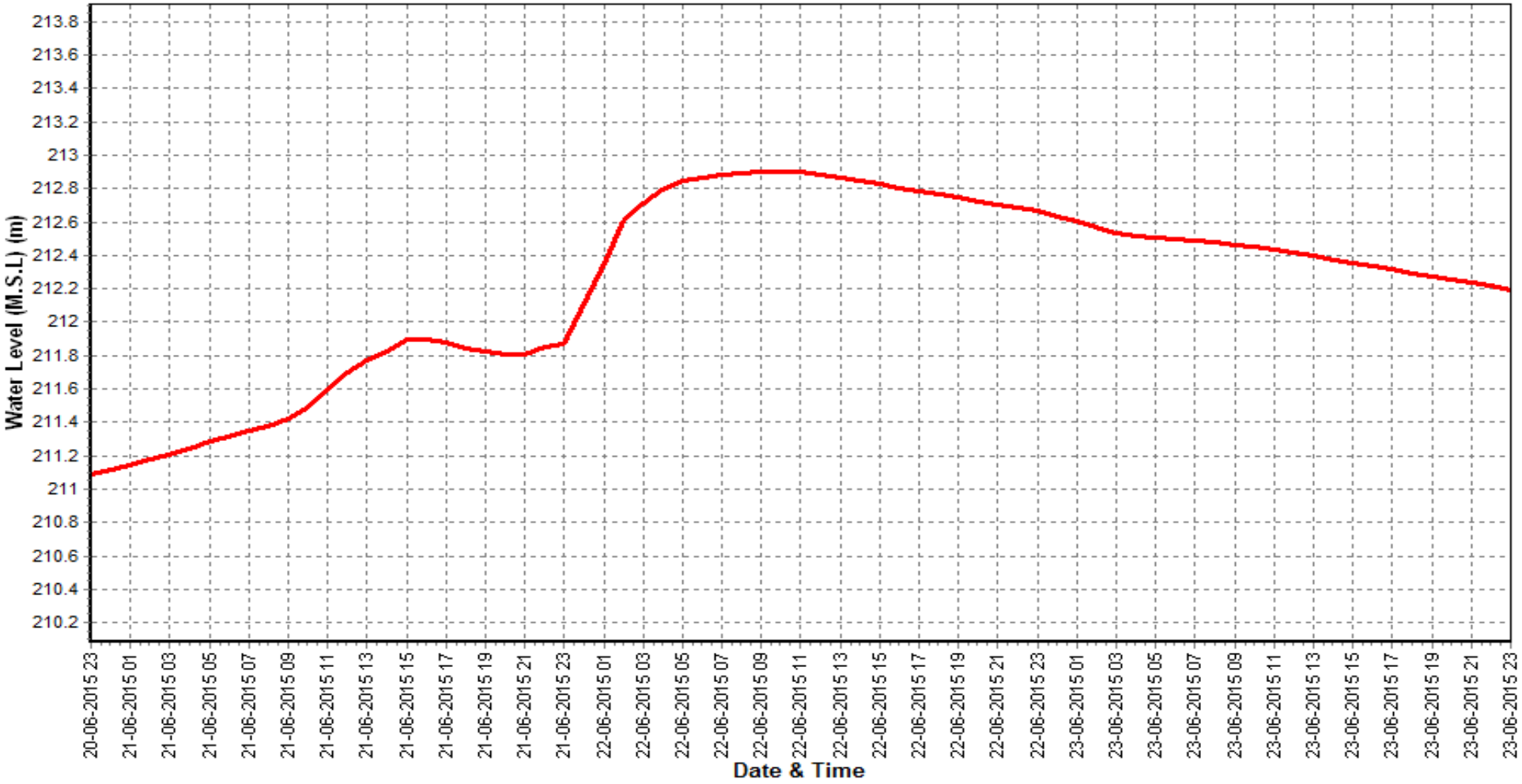


Time Span: 72 Hrs

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

Station Name : WAIRAGARH (AGH46D4) **Division : Wainganga Div., Nagpur**

Local River : Khobragarhi **Sub-Division : L Wainganga SD, Chandrapur**

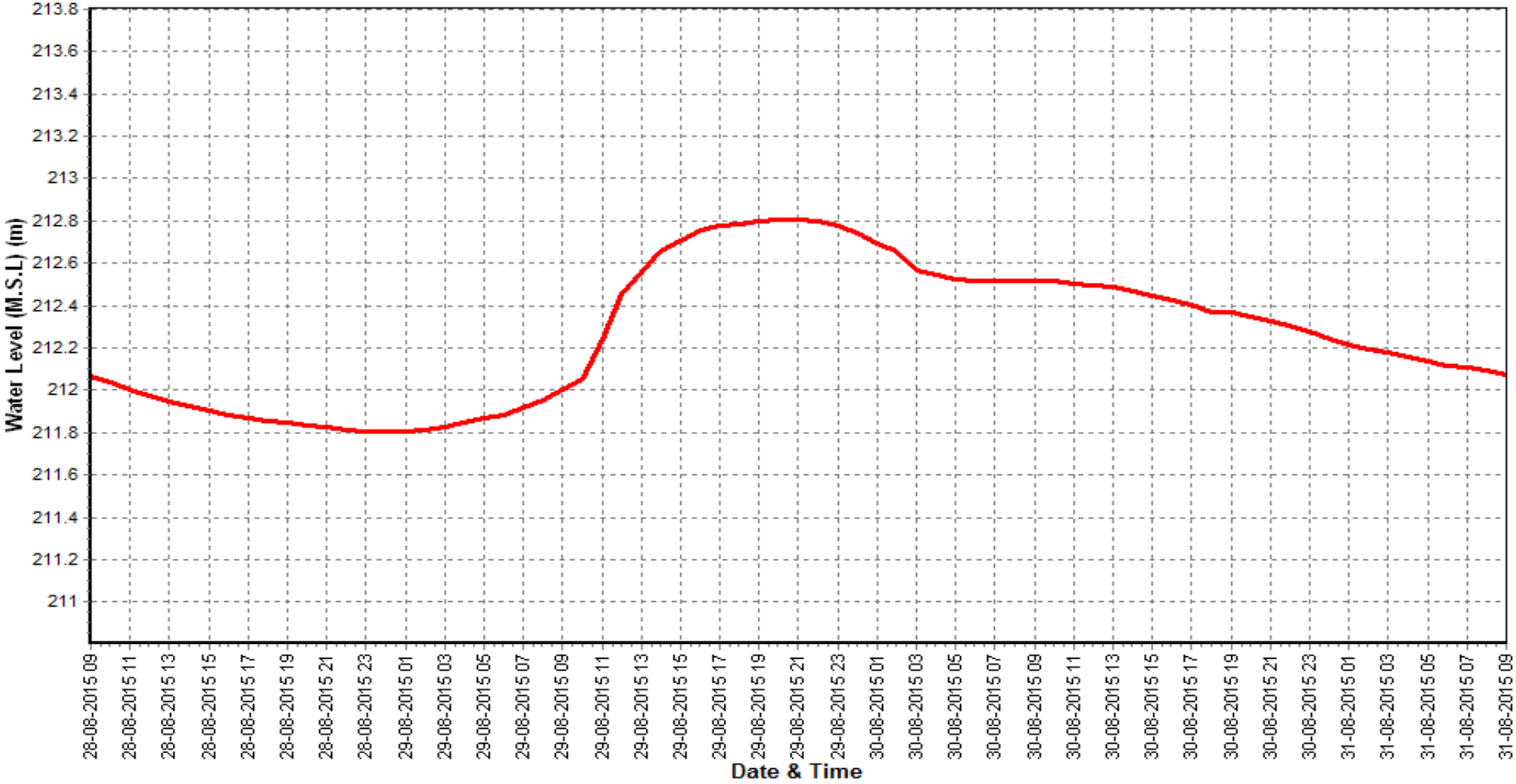


Time Span: 72 Hrs

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

Station Name : WAIRAGARH (AGH46D4) **Division : Wainganga Div., Nagpur**

Local River : Khobragarhi **Sub-Division : L Wainganga SD, Chandrapur**



Time Span: 72 Hrs

HISTORY SHEET

			Water Year	:	**2015-2016**
Site	:	**SALEBARDI**	**Code**	:	**AGH49I1**
State	:	Maharashtra	District		Bhandra
Basin	:	Godavari	Independent River	:	Godavari
Tributary	:	Pranhita	Sub Tributary	:	Wainganga
Sub-Sub Tributary	:	Chulband	Local River	:	Chulband
Division	:	Wainganga Div., Nagpur	Sub-Division	:	Upper Wainganga SD, Nagpur
Drainage Area	:	1800 Sq. Km.	Bank	:	Left
Latitude	:	20°54'44"	Longitude	:	79°55'40"
Zero of Gauge (m)	:	223.8 (m.s.l) 224.3 (m.s.l)	26.07.1985 01.06.1993	-	31.05.1993
		Opening Date	Closing Date		
Gauge	:	26.07.1985	**HFL During 2015-16**	:	**230.600**
			Corres. Discharge	:	**1003.699 Cumecs(Estimated)**
Discharge	:	21.06.1986	**Date & Time of**	:	**29.08.2015**
			Occurance	:	**18.00 hrs.**
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**
1986-1987	2100	230.300	15.08.1986	0.000		18.04.1987
1987-1988	73.20	226.180	29.08.1987	0.000		14.04.1988
1988-1989	968.7	230.105	27.07.1988	0.000		27.03.1989
1989-1990	357.3	228.315	23.08.1989	0.000	0.000	15.03.1990
1990-1991	329.9	228.490	15.09.1990	0.000		11.05.1991
1991-1992	1266	230.565	30.07.1991	0.000		28.02.1992
1992-1993	853.7	229.775	21.08.1992	0.000		01.03.1993
1993-1994	1099	230.670	02.08.1993	0.000		20.04.1994
1994-1995	1537	231.980	11.07.1994	0.000		28.09.1994
1995-1996	868.0	230.300	02.09.1995	0.000		13.03.1996
1996-1997	332.4	229.060	27.07.1996	0.000		01.04.1997
1997-1998	630.7	229.285	23.08.1997	0.000		15.04.1998
1998-1999	1017	230.570	14.09.1998	0.000		01.04.1999
1999-2000	985.6	231.105	09.08.1999	0.000		09.03.2000
2000-2001	1860	233.130	19.07.2000	0.000		25.01.2001
2001-2002	505.1	229.090	15.06.2001	0.000		05.02.2002
2002-2003	1321	231.600	23.08.2002	0.000		14.02.2003
2003-2004	508.8	229.085	02.09.2003	0.000		20.02.2004
2004-2005	283.8	228.390	22.08.2004	0.000		10.01.2005
2005-2006	3017	233.520	15.09.2005	0.000		19.03.2006
2006-2007	1690	231.840	14.08.2006	0.000		22.02.2007
2007-2008	1281	230.350	08.08.2007	0.015	225.380	10.01.2008
2008-2009	244.7	228.400	11.08.2008	0.001	226.070	10.12.2008

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	466.6	228.850	15.07.2009	0.041	226.150	09.07.2009
2010-2011	2399	232.440	08.09.2010	0.000		24.02.2011
2011-2012	825.8	231.010	08.09.2011	0.000		21.02.2012
2012-2013	312.5	228.845	31.07.2012	0.000		02.02.2013
2013-2014	735.4	230.580	01.08.2013	0.000		28.02.2014
2014-2015	1745	231.200	23.07.2014	0.000	226.460	16.12.2014

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

Stage-Dischage Data for the period 2015 - 2016

Station Name : SALEBARDI (AGH49I1) **Division : Wainganga Div., Nagpur**

Local River : Chulband **Sub-Division : Upper Wainganga SD, Nagpur**

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	224.300	0.000	226.500	0.000 #	226.680	1.897	228.370	266.9	226.840	9.418	226.810	4.622 *
2	224.300	0.000	226.520	0.012 #	226.610	0.369 *	227.605	88.42	226.830	8.257 *	226.750	2.843
3	224.300	0.000	226.725	2.189	226.580	0.034 #	227.230	57.91	226.830	9.005	226.790	4.624
4	224.300	0.000	226.630	0.708	226.640	1.083	227.055	32.56	226.850	9.677 *	226.700	1.545
5	224.300	0.000	226.560	0.125 *	227.020	25.59	226.950	22.88	226.840	10.11	226.730	2.592
6	224.300	0.000	226.530	0.027 #	227.030	29.94	226.890	14.46 *	226.830	7.712	226.680	1.242
7	224.300	0.000	226.520	0.012 #	226.995	22.41	226.850	10.43	226.810	6.058	226.710	1.994
8	224.300	0.000	226.500	0.000 #	227.010	24.31	226.830	9.198	226.780	4.733	226.720	2.323 *
9	224.300	0.000	226.500	0.000 #	226.930	18.16 *	226.865	14.53	226.870	12.26	226.680	1.633
10	224.300	0.000	226.520	0.012 #	226.985	22.07	226.920	21.16	226.800	7.734	226.680	1.448
11	224.300	0.000	227.220	43.98	226.950	20.04	226.850	12.18	226.840	8.957 *	226.670	1.296 *
12	224.300	0.000	226.950	15.56 *	227.155	44.80	226.810	6.518	226.790	5.428	226.670	1.218
13	224.300	0.000	226.760	4.072 #	228.360	262.5	226.790	5.657 *	226.820	7.448	226.660	0.916
14	224.300	0.000	226.700	1.884	228.365	282.4	226.800	6.185	226.820	7.550	226.660	1.006
15	224.300	0.000	226.650	0.863	228.540	325.2 *	226.870	11.17 #	226.790	5.269	226.650	0.945 *
16	224.300	0.000	226.560	0.148	227.600	114.0 *	227.185	44.92	226.840	9.295	226.660	1.187
17	224.300	0.000	226.550	0.082 #	227.470	91.21 #	229.340	483.7 *	226.780	4.913	226.660	1.170
18	224.300	0.000	226.530	0.027 *	227.165	48.91	229.870	634.1	226.830	8.257 *	226.650	0.943
19	224.300	0.000	226.530	0.027 *	227.215	60.42	228.160	202.8 #	226.790	4.864	226.640	0.981
20	224.300	0.000	226.760	4.072 #	227.430	84.41	227.530	89.99 *	226.810	7.320	226.630	0.553
21	224.300	0.000	226.790	6.048	227.155	52.11	227.525	75.22	226.800	6.206	226.620	0.541
22	224.300	0.000	226.750	4.322	226.960	24.74	227.650	105.1	226.800	6.276 *	226.610	0.368 *
23	227.140	36.99 *	226.920	13.14 #	226.930	18.16 *	227.310	63.76	226.780	4.485	226.610	0.359
24	226.920	15.62	228.450	282.1	226.870	12.04	227.175	36.87	226.800	6.276 *	226.600	0.293
25	226.790	6.121	228.260	234.6	226.820	7.900	227.020	24.42 *	226.800	6.276 *	226.620	0.495 *
26	226.770	4.821	227.410	70.50 *	226.780	4.842	226.930	20.04	226.770	4.221	226.610	0.368 #
27	226.700	2.087	227.010	25.54	226.750	3.319	226.890	12.73 *	226.820	4.909 #	226.600	0.254 #
28	226.560	0.125 *	226.890	13.27	226.965	24.60	226.860	10.41 #	226.750	2.905	226.600	0.254 #
29	226.480	0.000 #	226.810	7.627	228.900	424.4 *	226.850	10.51	226.810	4.622 #	226.600	0.254 *
30	226.430	0.000 #	226.760	5.286	229.510	612.4 *	226.830	8.831	226.760	3.499	226.570	0.017 #
31			226.710	3.206 #	228.260	231.8			226.800	5.407		
Daily Mean												
Ten-Dai	224.300	0.000	226.551	0.308	226.848	14.59	227.156	53.84	226.828	8.497	226.725	2.487
Ten-Da	224.300	0.000	226.721	7.071	227.625	133.4	227.620	149.7	226.811	6.930	226.655	1.022
Ten-Da	226.239	6.576	227.160	60.51	227.445	128.8	227.104	36.79	226.790	5.007	226.604	0.320
Monthly												
Min.	224.300	0.000	226.500	0.000	226.580	0.034	226.790	5.657	226.750	2.905	226.570	0.017
Max.	227.140	36.99	228.450	282.1	229.510	612.4	229.870	634.1	226.870	12.26	226.810	4.624
Mean	224.946	2.192	226.822	23.85	227.311	93.42	227.294	80.12	226.809	6.753	226.661	1.276

Annual Runoff in MCM = 549 Annual Runoff in mm = 305

Peak Observed Discharge = 634.1 cumecs on 18-09-2015 Corres. Water Level :229.87 m

Lowest Observed Discharge = 0.000 cumecs on 01-06-2015 Corres. Water Level :224.3 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-Dischage Data for the period 2015 - 2016

Station Name : SALEBARDI (AGH49I1) **Division : Wainganga Div., Nagpur**

Local River : Chulband **Sub-Division : Upper Wainganga SD, Nagpur**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	226.580	0.222	226.150	0.000	224.300	0.000	224.300	0.000	224.300	0.000	224.300	0.000
2	226.580	0.203	226.150	0.000	224.300	0.000	224.300	0.000	224.300	0.000	224.300	0.000
3	226.570	0.206	226.150	0.000	224.300	0.000	224.300	0.000	224.300	0.000	224.300	0.000
4	226.570	0.218	226.140	0.000	224.300	0.000	224.300	0.000	224.300	0.000	224.300	0.000
5	226.580	0.181	226.140	0.000	224.300	0.000	224.300	0.000	224.300	0.000	224.300	0.000
6	226.570	0.155 *	226.130	0.000	224.300	0.000	224.300	0.000	224.300	0.000	224.300	0.000
7	226.560	0.114	226.120	0.000	224.300	0.000	224.300	0.000	224.300	0.000	224.300	0.000
8	226.550	0.118	226.120	0.000	224.300	0.000	224.300	0.000	224.300	0.000	224.300	0.000
9	226.540	0.024	226.110	0.000	224.300	0.000	224.300	0.000	224.300	0.000	224.300	0.000
10	226.290	0.000	226.100	0.000	224.300	0.000	224.300	0.000	224.300	0.000	224.300	0.000
11	226.280	0.000	226.090	0.000	224.300	0.000	224.300	0.000	224.300	0.000	224.300	0.000
12	226.270	0.000	226.090	0.000	224.300	0.000	224.300	0.000	224.300	0.000	224.300	0.000
13	226.270	0.000	226.090	0.000	224.300	0.000	224.300	0.000	224.300	0.000	224.300	0.000
14	226.260	0.000	226.080	0.000	224.300	0.000	224.300	0.000	224.300	0.000	224.300	0.000
15	226.260	0.000	226.070	0.000	224.300	0.000	224.300	0.000	224.300	0.000	224.300	0.000
16	226.260	0.000	226.050	0.000	224.300	0.000	224.300	0.000	224.300	0.000	224.300	0.000
17	226.260	0.000	226.040	0.000	224.300	0.000	224.300	0.000	224.300	0.000	224.300	0.000
18	226.260	0.000	226.040	0.000	224.300	0.000	224.300	0.000	224.300	0.000	224.300	0.000
19	226.250	0.000	226.030	0.000	224.300	0.000	224.300	0.000	224.300	0.000	224.300	0.000
20	226.250	0.000	226.030	0.000	224.300	0.000	224.300	0.000	224.300	0.000	224.300	0.000
21	226.240	0.000	226.030	0.000	224.300	0.000	224.300	0.000	224.300	0.000	224.300	0.000
22	226.230	0.000	226.020	0.000	224.300	0.000	224.300	0.000	224.300	0.000	224.300	0.000
23	226.230	0.000	226.020	0.000	224.300	0.000	224.300	0.000	224.300	0.000	224.300	0.000
24	226.220	0.000	226.010	0.000	224.300	0.000	224.300	0.000	224.300	0.000	224.300	0.000
25	226.220	0.000	226.010	0.000	224.300	0.000	224.300	0.000	224.300	0.000	224.300	0.000
26	226.210	0.000	226.000	0.000	224.300	0.000	224.300	0.000	224.300	0.000	224.300	0.000
27	226.180	0.000	224.300	0.000	224.300	0.000	224.300	0.000	224.300	0.000	224.300	0.000
28	226.180	0.000	224.300	0.000	224.300	0.000	224.300	0.000	224.300	0.000	224.300	0.000
29	226.170	0.000	224.300	0.000	224.300	0.000	224.300	0.000	224.300	0.000	224.300	0.000
30	226.160	0.000	224.300	0.000								
31	226.160	0.000	224.300	0.000								
Daily M												
Ten-Dai	226.539	0.144	226.131	0.000	224.300	0.000	224.300	0.000	224.300	0.000	224.300	0.000
Ten-Da	226.262	0.000	226.061	0.000	224.300	0.000	224.300	0.000	224.300	0.000	224.300	0.000
Ten-Da	226.200	0.000	225.235	0.000	224.300	0.000	224.300	0.000	224.300	0.000	224.300	0.000
Monthly												
Min.	226.160	0.000	224.300	0.000	224.300	0.000	224.300	0.000	224.300	0.000	224.300	0.000
Max.	226.580	0.222	226.150	0.000	224.300	0.000	224.300	0.000	224.300	0.000	224.300	0.000
Mean	226.329	0.047	225.791	0	224.300	0	224.300	0	224.300	0	224.300	0

Peak Computed Discharge = 612.4 cumecs on 30-08-2015 Corres. Water Level :229.51 m

Lowest Computed Discharge = 0.027 cumecs on 18-07-2015 Corres. Water Level :226.53 m

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

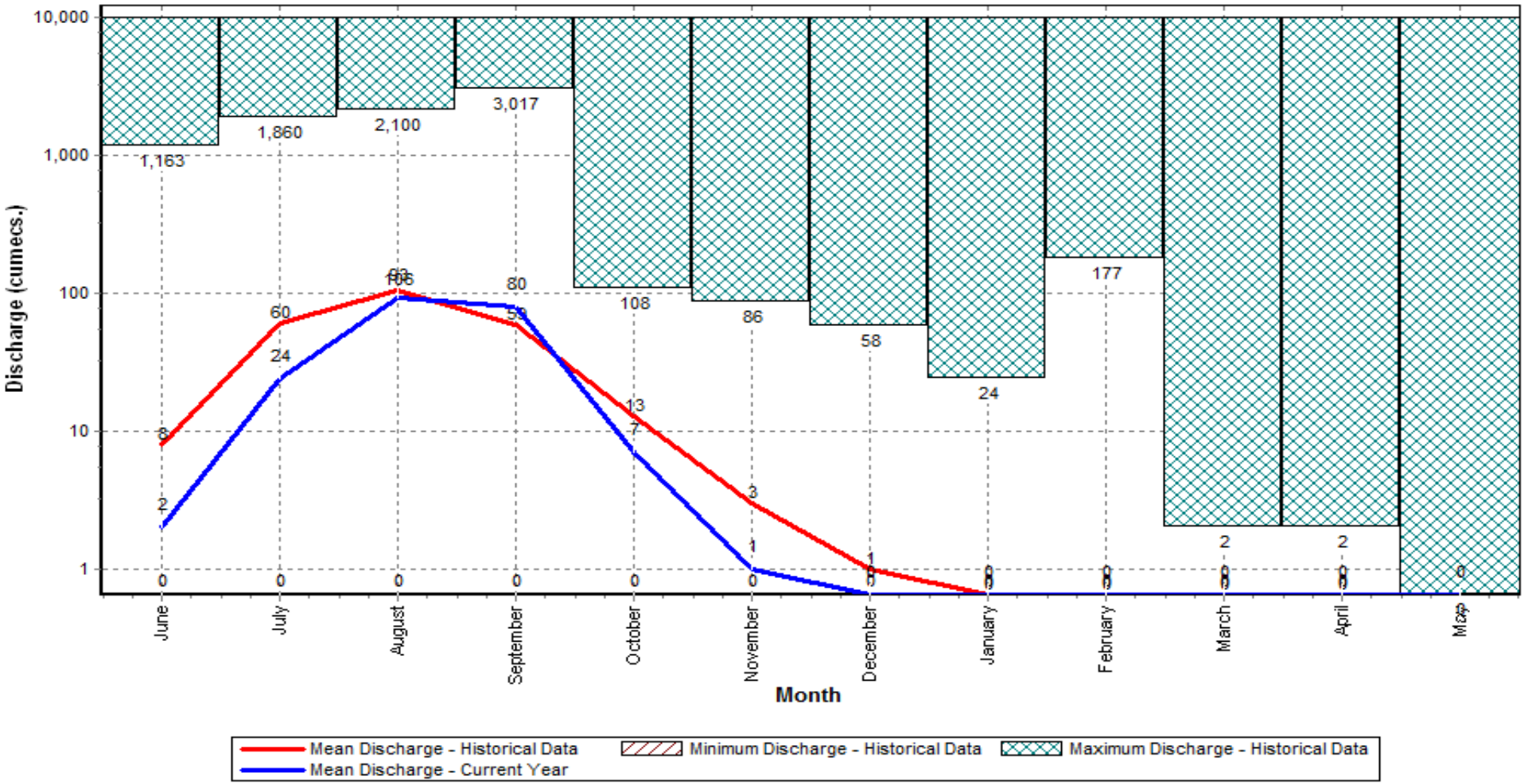
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016

Station Name : SALEBARDI (AGH49I1) | **Data considered : 1986-2016** | **Division : Wainganga Div., Nagpur**

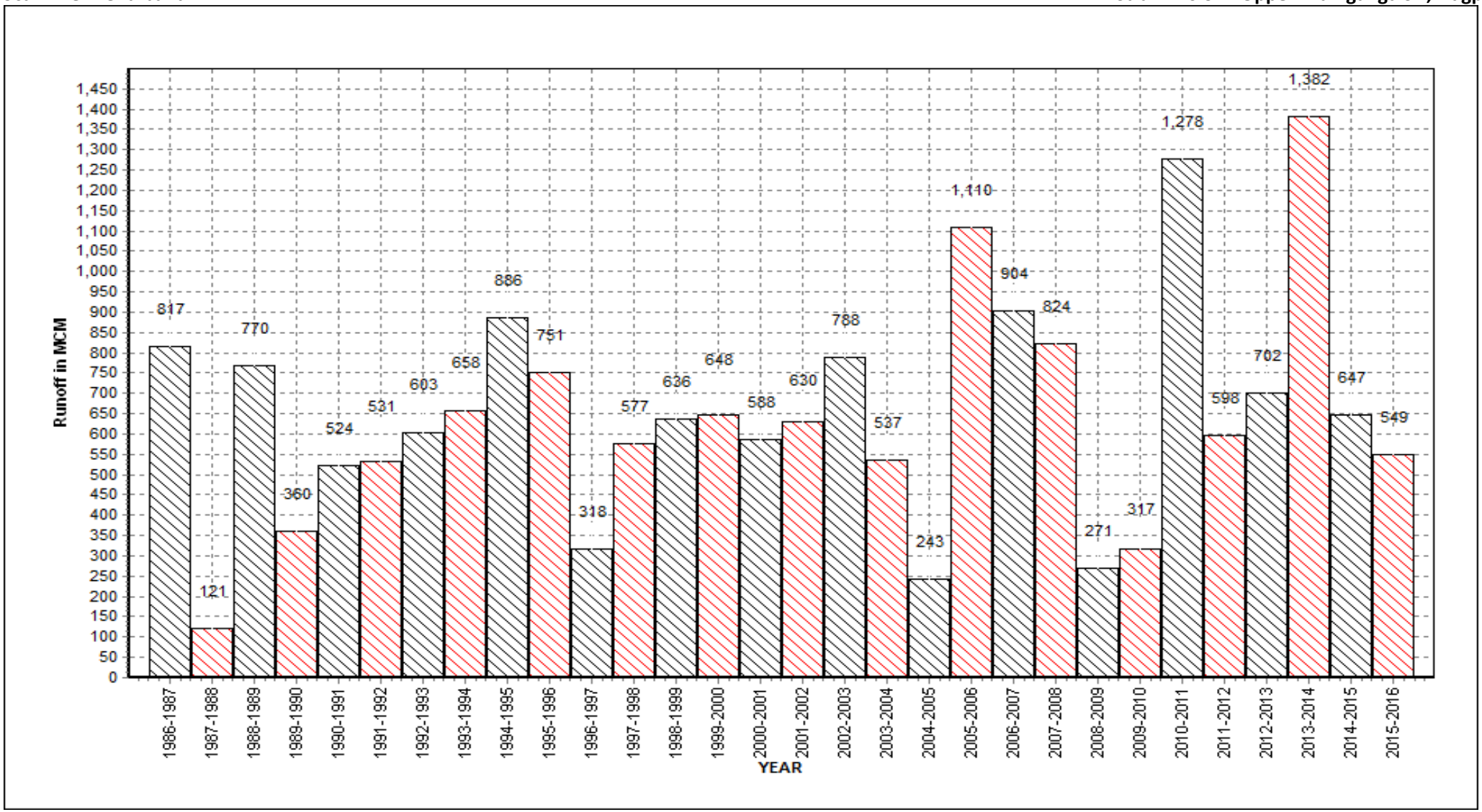
Local River : Chulband | **Sub-Division : Upper Wainganga SD, Nagpur**



Annual Runoff Values for the period: 1986 - 2016

Station Name : SALEBARDI (AGH49I1) **Division : Wainganga Div., Nagpur**

Local River : Chulband **Sub-Division : Upper Wainganga SD, Nagpur**



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

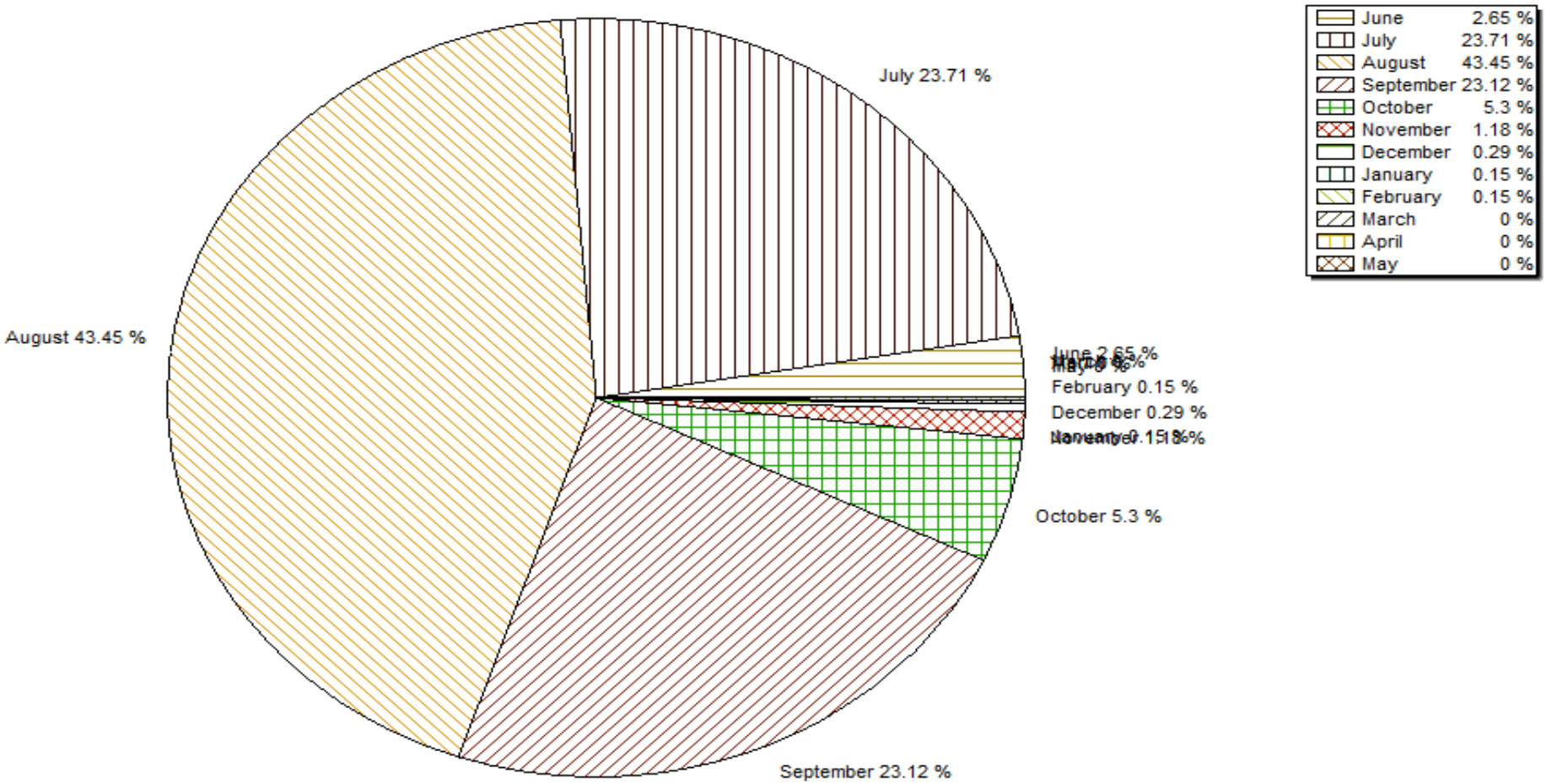
Monthly Average Runoff based on period : 1986-2015

Station Name : SALEBARDI (AGH49I1)

Local River : Chulband

Division : Wainganga Div., Nagpur

Sub-Division : Upper Wainganga SD, Nagpur



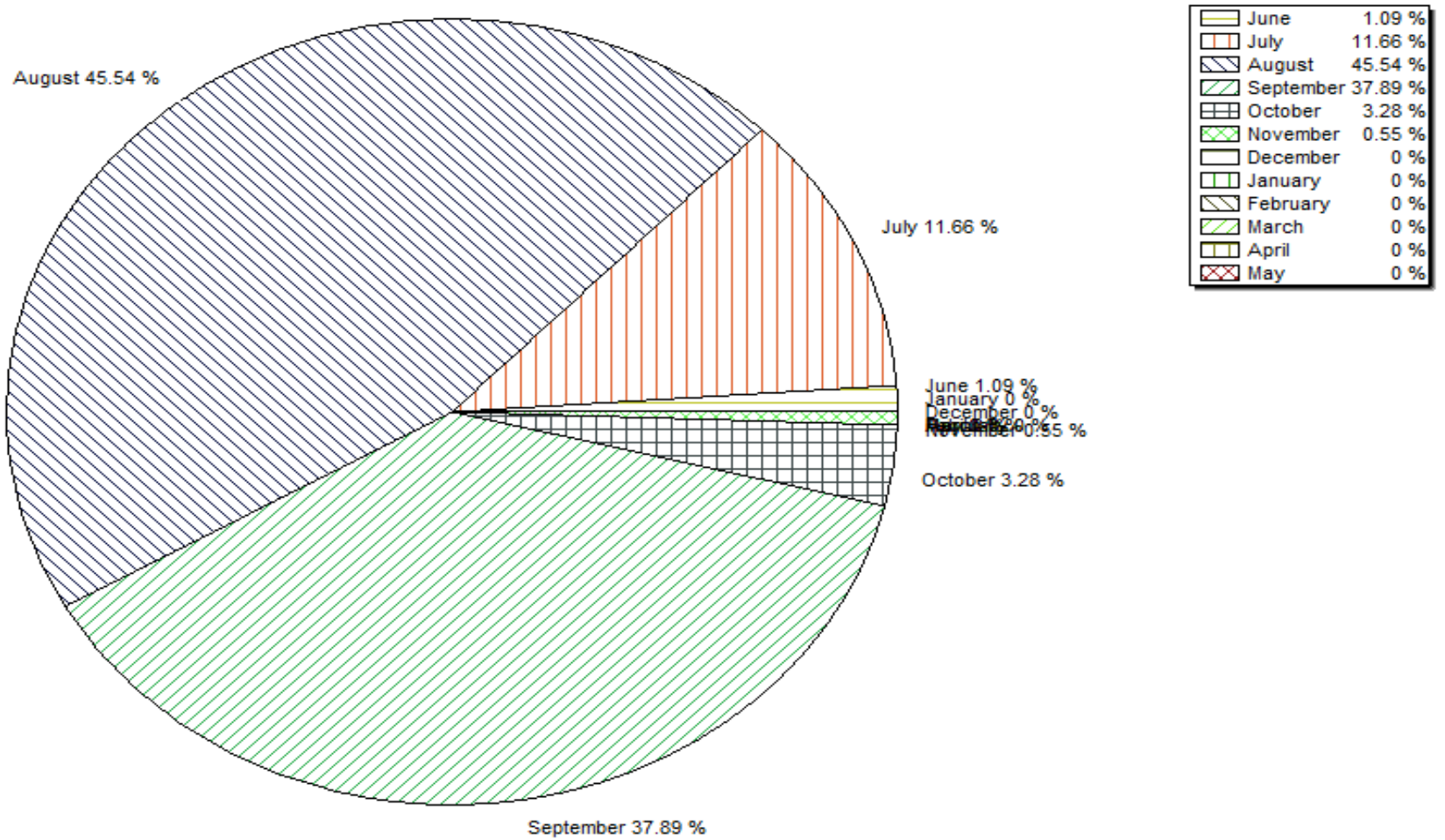
Monthly Runoff for the Year : 2015-2016

Station Name : SALEBARDI (AGH49I1)

Local River : Chulband

Division : Wainganga Div., Nagpur

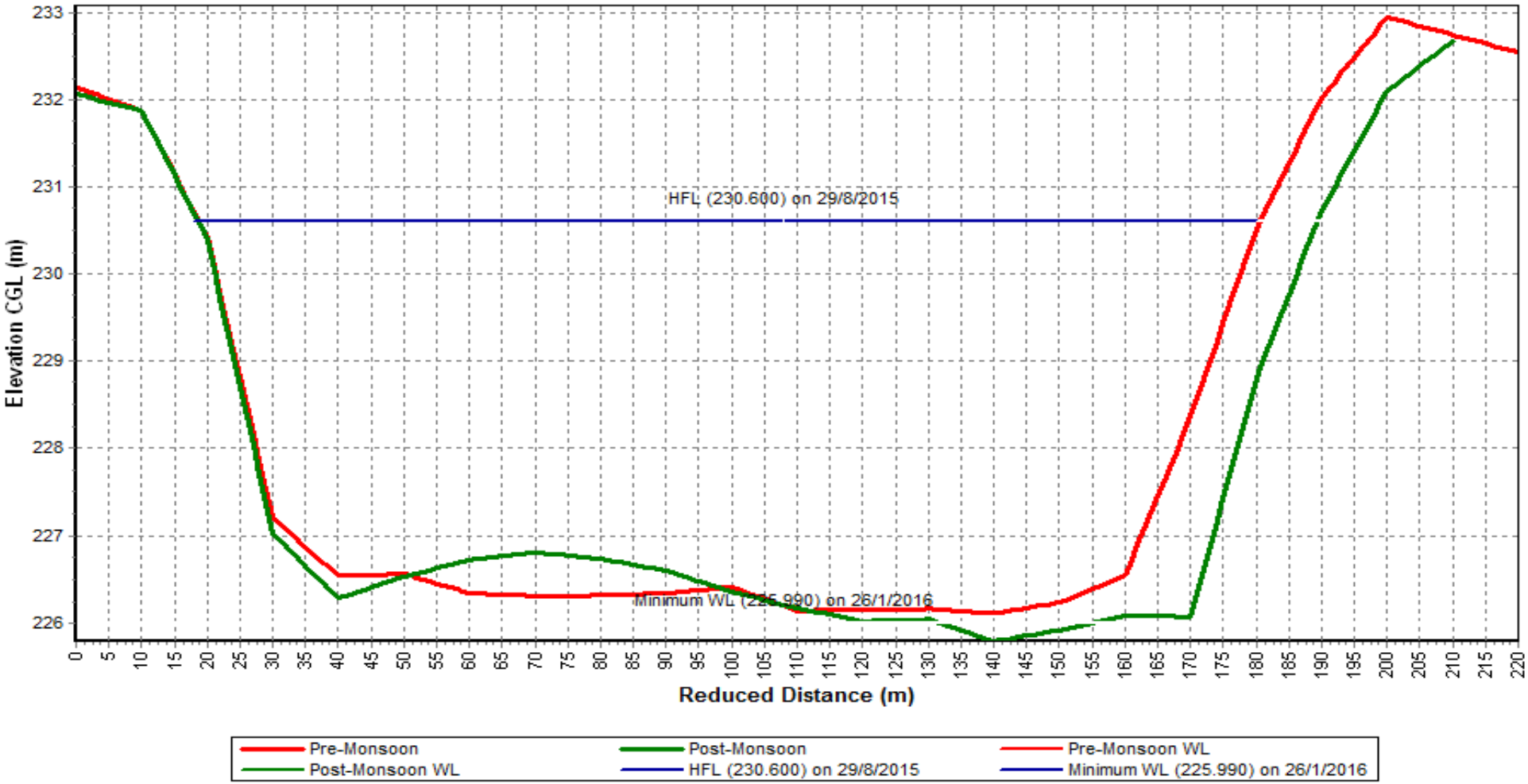
Sub-Division : Upper Wainganga SD, Nagpur



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

Station Name : SALEBARDI (AGH49I1) **Division : Wainganga Div., Nagpur**

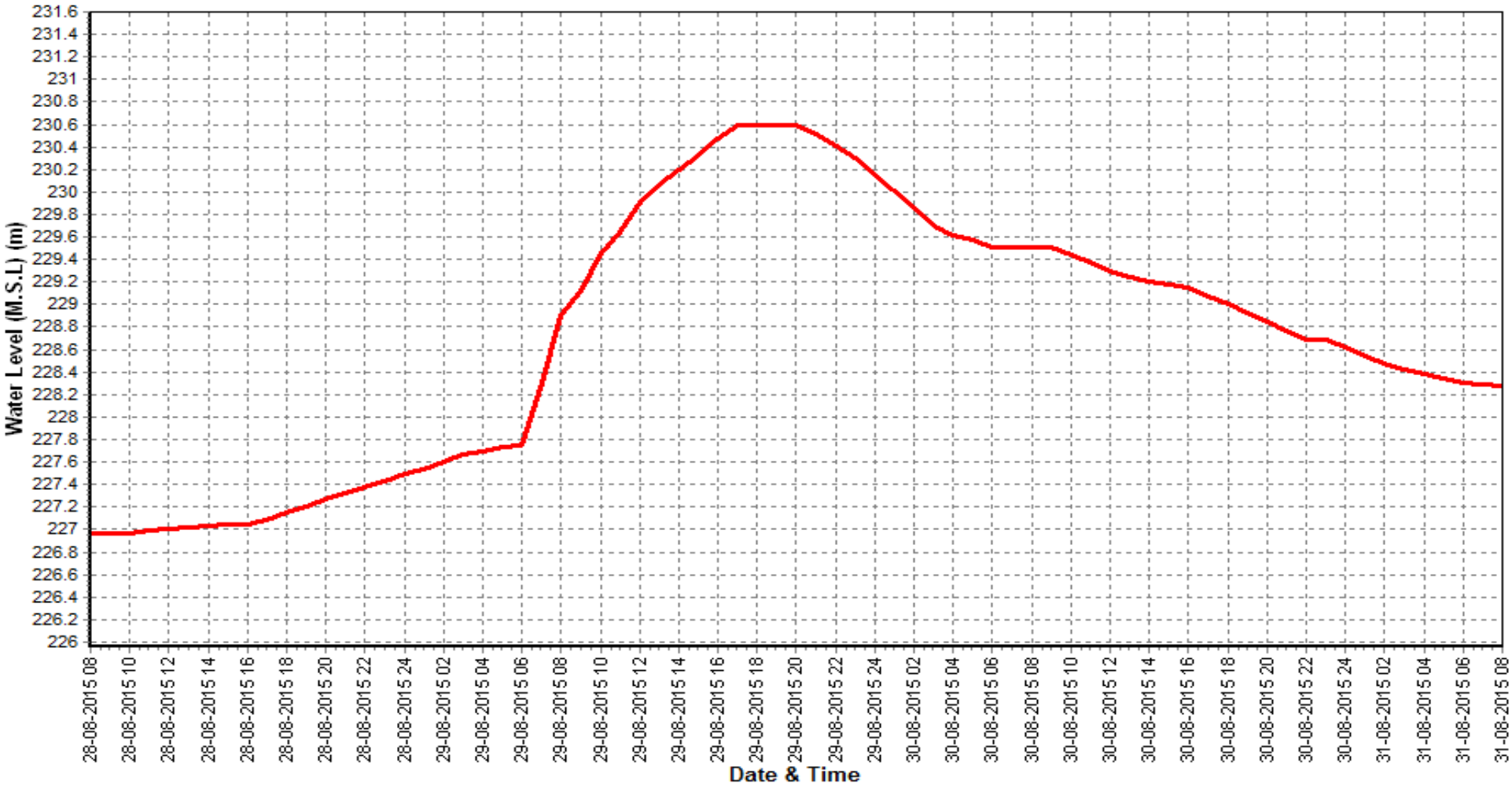
Local River : Chulband **Sub-Division : Upper Wainganga SD, Nagpur**



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

Station Name : SALEBARDI (AGH49I1) **Division : Wainganga Div., Nagpur**

Local River : Chulband **Sub-Division : Upper Wainganga SD, Nagpur**

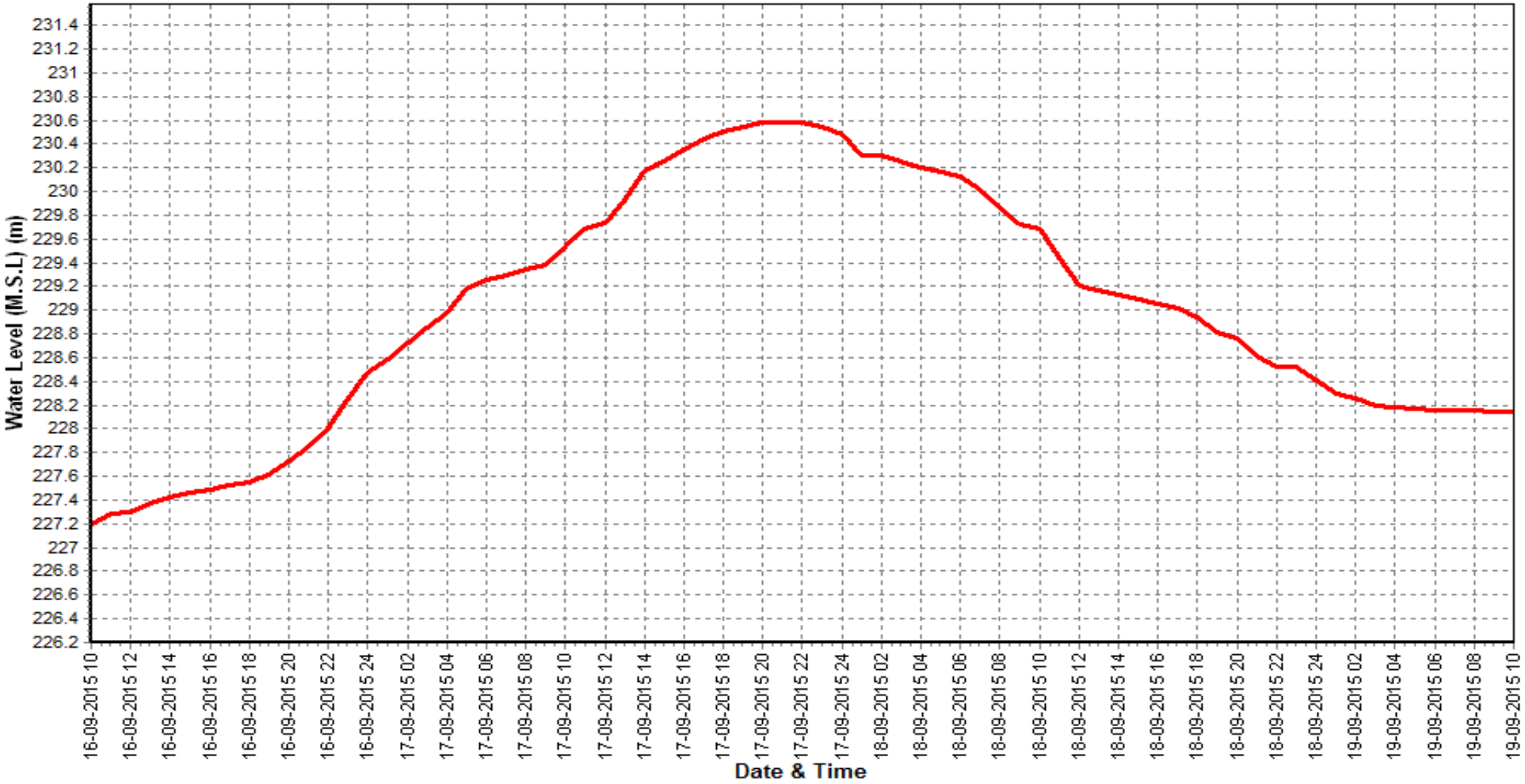


Time Span: 72 Hrs

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

Station Name : SALEBARDI (AGH49I1) **Division : Wainganga Div., Nagpur**

Local River : Chulband **Sub-Division : Upper Wainganga SD, Nagpur**

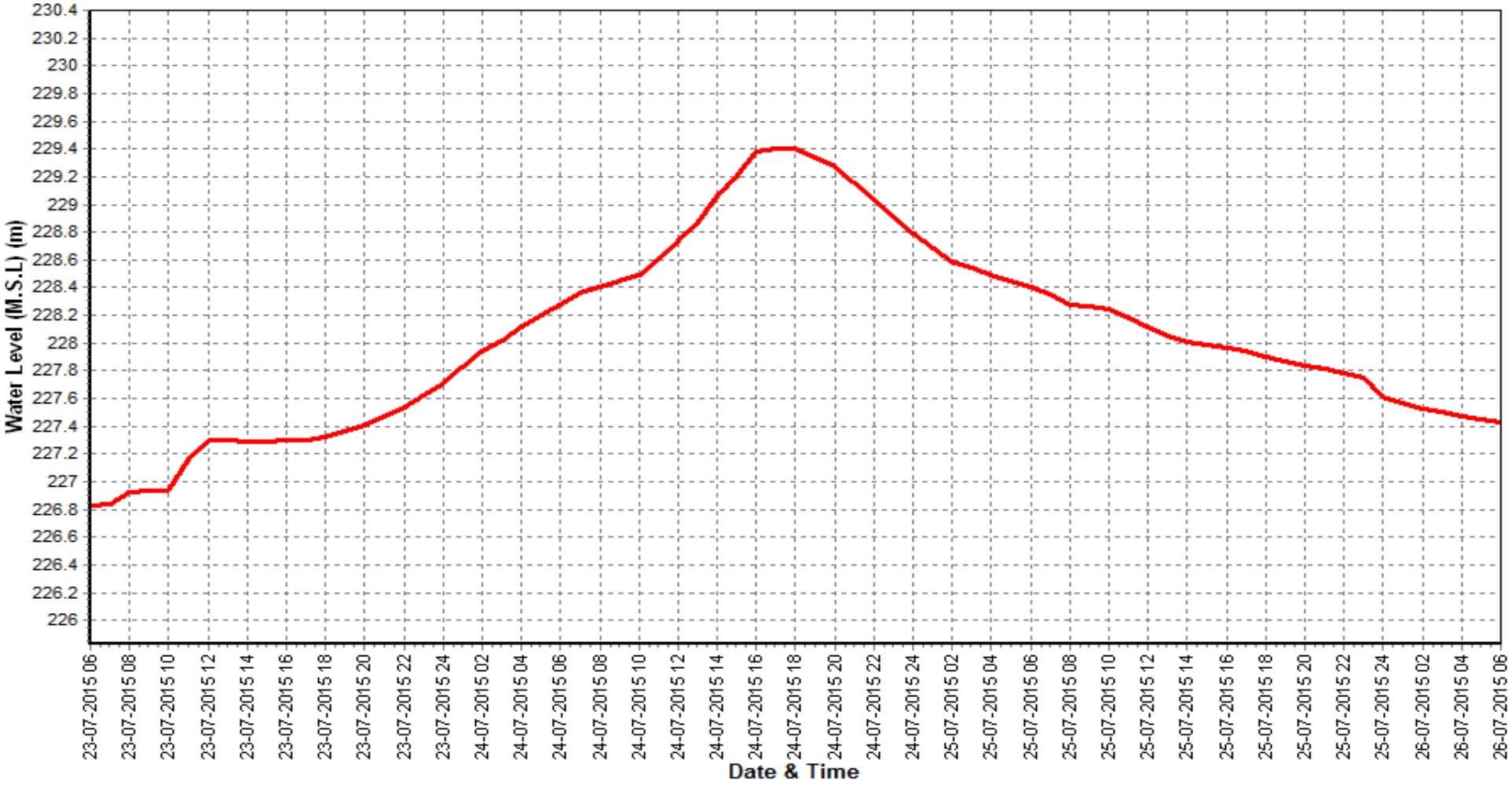


Time Span: 72 Hrs

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

Station Name : SALEBARDI (AGH49I1) **Division : Wainganga Div., Nagpur**

Local River : Chulband **Sub-Division : Upper Wainganga SD, Nagpur**



Time Span: 72 Hrs

HISTORY SHEET

Water Year : 2015-2016

Site	**:**	**SATRAPUR**	**Code**	**:**	**AGH4BF6**
State	:	Maharashtra	District		Nagpur
Basin	:	Godavari	Independent River	:	Godavari
Tributary	:	Pranhita	Sub Tributary	:	Wainganga
Sub-Sub Tributary	:	Khanan	Local River	:	Khanan
Division	:	Wainganga Div., Nagpur	Sub-Division	:	Upper Wainganga SD, Nagpur
Drainage Area	:	11100 Sq. Km.	Bank	:	Left
Latitude	:	21°13'00"	Longitude	:	79°13'59"
Zero of Gauge (m)	:	264.3 (m.s.l) 263.3 (m.s.l)	07.09.1984 01.04.1987	-	31.03.1987
		Opening Date	Closing Date		
Gauge	:	07.09.1984	**HFL During 2015-16**	**:**	**271.850**
			Corres. Discharge	**:**	**5281.481 Cumecs(Estimated)**
Discharge	:	30.05.1986	**Date & Time of**	**:**	**13.08.2015**
			Occurance	**:**	**23.00 hrs.**
Sediment	:	01.08.1988			
Water Quality	:	09.12.1987			

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	3000	275.695	15.08.1986	0.900	265.115	23.05.1987
1987-1988	218.0	267.130	29.08.1987	0.300	265.000	13.03.1988
1988-1989	1111	269.025	05.08.1988	0.500	265.050	09.06.1988
1989-1990	700.0	267.240	23.08.1989	0.370	264.630	23.04.1990
1990-1991	1698	269.295	30.08.1990	2.000	264.660	29.05.1991
1991-1992	3464	271.350	31.07.1991	0.240	264.540	31.05.1992
1992-1993	3569	271.315	17.08.1992	0.185	264.540	02.06.1992
1993-1994	1656	269.005	28.09.1993	0.980	264.760	09.06.1993
1994-1995	14161	277.610	06.09.1994	1.910	264.720	03.06.1994
1995-1996	1078	267.795	02.09.1995	1.670	264.175	08.05.1996
1996-1997	853.6	267.555	27.07.1996	0.630	264.105	29.05.1997
1997-1998	2817	270.250	26.07.1997	1.000	264.300	05.04.1998
1998-1999	2609	270.260	15.09.1998	2.700	264.010	03.05.1999
1999-2000	4968	272.890	19.09.1999	1.760	264.070	14.05.2000
2000-2001	1117	267.385	13.07.2000	0.150	263.620	13.04.2001
2001-2002	1476	267.900	14.06.2001	0.090	263.630	11.05.2002
2002-2003	554.1	266.750	19.08.2002	0.137	263.700	05.06.2002
2003-2004	3396	271.513	28.07.2003	1.683	263.970	14.04.2004
2004-2005	857.1	267.810	05.08.2004	0.225	263.830	12.04.2005
2005-2006	3655	271.980	15.09.2005	1.187	263.750	15.05.2006
2006-2007	3173	271.295	01.09.2006	0.611	263.740	17.05.2007

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**
2007-2008	1850	269.710	08.07.2007	1.718	263.850	06.06.2007
2008-2009	121.2	265.050	22.09.2008	1.263	263.930	09.03.2009
2009-2010	1562	268.850	23.07.2009	0.931	263.850	06.05.2010
2010-2011	994.2	267.930	07.08.2010	1.421	263.870	10.06.2010
2011-2012	869.1	267.555	15.09.2011	1.308	263.760	14.04.2012
2012-2013	5685	273.265	06.09.2012	1.066	263.840	13.04.2013
2013-2014	7955	274.340	24.08.2013	0.741	263.880	05.06.2013
2014-2015	2615	269.625	23.07.2014	0.626	263.870	21.02.2015

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

Stage-Discharge Data for the period 2015 - 2016

Station Name : SATRAPUR (AGH4BF6) **Division : Wainganga Div., Nagpur**

Local River : Khanan **Sub-Division : Upper Wainganga SD, Nagpur**

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	263.810	2.302	264.130	16.37	264.370	27.97	264.540	62.54	264.300	25.26	264.120	17.28 *
2	263.820	2.496	264.360	27.70	264.320	30.06 *	264.515	60.12	264.290	30.11 *	264.120	16.07
3	263.830	2.493	264.140	17.07	264.290	24.77	264.475	56.58	264.270	24.18	264.130	16.34
4	263.900	3.527	264.080	11.76	264.340	27.39	264.500	58.05	264.250	26.71 *	264.110	15.28
5	263.820	2.411	264.040	11.38 *	269.150	2138	264.470	56.08	264.230	21.90	264.100	14.88
6	263.810	2.341	264.000	10.25	266.190	535.9	264.420	42.87 *	264.210	21.00	264.090	14.48
7	263.840	2.772 *	263.980	9.482	265.720	310.6	264.485	57.36	264.200	20.48	264.080	14.16
8	263.870	3.074	263.940	8.340	265.370	189.8	264.505	58.23	264.180	19.89	264.080	14.85 *
9	263.850	2.872	263.910	7.390	265.240	164.9 *	264.520	59.08	264.180	18.94	264.070	13.89
10	263.830	2.705	263.890	5.219 #	265.495	242.4	264.455	55.43	264.160	18.04	264.060	13.56
11	263.840	2.790	263.970	9.061	265.625	271.8	264.510	59.09	264.160	19.92 *	264.050	13.18 *
12	263.840	2.787	263.960	7.773 *	265.950	444.9	264.380	32.42	264.140	17.10	264.040	13.00
13	263.850	2.858	263.960	8.721	267.050	919.5	264.340	34.70 *	264.140	17.08	264.040	12.60
14	263.980	7.443 *	264.265	24.01	268.835	1769	264.310	26.45	264.135	16.59	264.030	12.29
15	263.880	3.091	264.230	21.61	266.170	427.7 *	264.410	48.43	264.120	16.19	264.030	12.12 *
16	263.800	2.251	264.130	16.60	265.610	253.5 *	264.635	77.12	264.120	16.14	264.030	12.12
17	263.980	7.443 #	264.080	11.56	265.320	154.7	264.630	69.37 *	264.110	15.82	264.020	11.41
18	263.990	7.877 #	264.030	10.89 *	265.270	139.4	264.990	108.0	264.110	16.65 *	264.010	11.73
19	264.010	10.84	264.020	10.41 *	265.045	120.4	265.970	452.5	264.110	15.78	263.990	11.42
20	264.235	22.53	264.100	12.19	265.010	112.3	265.420	244.3 *	264.100	15.37	263.990	11.37
21	264.960	127.4 *	264.355	27.67	264.925	103.1	264.895	98.20	264.100	15.35	263.980	11.22
22	266.300	632.4	264.200	20.28	264.800	92.50	264.730	86.18	264.090	15.44 *	263.970	9.272 *
23	266.000	496.3	264.375	28.20	264.720	83.10 *	264.610	74.61	264.080	14.34	263.960	10.51
24	264.865	98.25	266.320	482.8 #	264.660	79.85	264.540	62.32	264.080	14.85 *	263.960	10.39
25	264.560	64.97	265.590	263.6	264.615	78.94	264.500	52.09 *	264.080	14.85 *	263.950	8.419 *
26	264.430	49.94	265.780	301.2 *	264.570	69.87	264.450	54.22	264.070	13.96	263.940	9.650
27	264.320	26.91	264.940	105.6	264.535	62.10	264.400	40.73 *	264.090	14.89	263.940	9.557
28	264.310	29.58 *	264.625	76.67	264.500	57.83	264.360	27.43	264.080	14.44	263.930	9.069
29	264.240	22.19	264.525	60.85	264.655	70.93	264.340	26.92	264.155	18.04	263.930	7.617 *
30	264.190	19.33	264.450	42.09 #	264.440	45.08 *	264.320	26.61	264.115	16.02	263.920	8.210
31			264.390	32.51	264.535	62.31			264.130	16.46		
Daily Mean												
Ten-Dai	263.838	2.699	264.047	12.50	265.448	369.1	264.488	56.63	264.227	22.65	264.096	15.08
Ten-Da	263.940	6.991	264.075	13.28	265.988	461.3	264.759	115.2	264.125	16.66	264.023	12.12
Ten-Da	264.818	156.7	264.868	131.0	264.632	73.24	264.515	54.93	264.097	15.33	263.948	9.392
Monthly												
Min.	263.800	2.251	263.890	5.219	264.290	24.77	264.310	26.45	264.070	13.96	263.920	7.617
Max.	266.300	632.4	266.320	482.8	269.150	2138	265.970	452.5	264.300	30.11	264.130	17.28
Mean	264.199	55.47	264.347	54.81	265.333	293.9	264.587	75.6	264.148	18.12	264.022	12.2

Annual Runoff in MCM = 1401 Annual Runoff in mm = 126

Peak Observed Discharge = 2138 cumecs on 05/08/2015 Corres. Water Level :269.15 m

Lowest Observed Discharge = 0.621 cumecs on 19/05/2016 Corres. Water Level :263.72 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

Stage-Discharge Data for the period 2015 - 2016

Station Name : SATRAPUR (AGH4BF6) **Division : Wainganga Div., Nagpur**

Local River : Khanan **Sub-Division : Upper Wainganga SD, Nagpur**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	263.920	8.113	263.880	4.148	263.840	3.245	263.850	3.457	263.810	1.348 #	263.740	0.870 *
2	263.910	5.910 #	263.880	4.138	263.840	3.240	263.850	3.519	263.810	1.348 #	263.730	0.730
3	263.910	5.910 #	263.900	4.660 *	263.840	3.202	263.850	3.492	263.790	1.194 *	263.720	0.691
4	263.920	8.109	263.890	5.010	263.840	3.246	263.840	3.318	263.780	1.115	263.720	0.689
5	263.910	5.910 #	263.890	4.867	263.870	3.967	263.840	3.280	263.780	1.215	263.720	0.713
6	263.910	5.910 *	263.890	4.874	263.870	3.938	263.830	2.957 *	263.780	1.105	263.750	0.910
7	263.910	5.910 #	263.890	4.724	263.860	3.923 *	263.830	3.187	263.780	1.084	263.750	0.881
8	263.910	5.910 #	263.910	6.113	263.860	3.815	263.820	2.783	263.760	0.974 *	263.740	0.870 *
9	263.900	6.115	263.910	6.149	263.870	4.018	263.820	2.749	263.750	0.912	263.740	0.838
10	263.900	6.048	263.910	5.910 *	263.870	3.982	263.820	2.735	263.750	0.905 *	263.740	0.851
11	263.900	6.021	263.910	6.072	263.870	4.027	263.790	1.189	263.750	0.905	263.750	0.842
12	263.900	6.046	263.900	5.458	263.870	4.043	263.790	1.204	263.750	0.890	263.750	0.825
13	263.900	5.475 *	263.980	10.81	263.870	4.019	263.780	1.119 *	263.740	0.849	263.750	0.844
14	263.900	5.840	263.990	11.45	263.850	3.583 *	263.780	1.138	263.740	0.837 *	263.740	0.801
15	263.890	5.092	263.890	4.899	263.830	3.040	263.780	1.123	263.740	0.836	263.740	0.870 *
16	263.890	5.061	263.880	4.122	263.830	3.084	263.780	1.120	263.740	0.816	263.730	0.713
17	263.890	4.974	263.880	4.660 *	263.820	2.824	263.770	1.046	263.740	0.837 *	263.730	0.700
18	263.890	4.922	263.870	3.983	263.820	2.839	263.770	1.035	263.740	0.812	263.730	0.696
19	263.880	4.551	263.870	3.935	263.820	2.836	263.770	1.012	263.820	2.837 *	263.720	0.621
20	263.880	4.660 *	263.860	3.843	263.820	2.802	263.770	1.046 *	263.830	3.053	263.820	2.919
21	263.880	4.487	263.860	3.814	263.820	2.671 *	263.770	0.999	263.830	3.034	263.820	2.837 *
22	263.880	4.321	263.850	3.345	263.820	2.772	263.750	0.898	263.820	2.939	263.820	2.837 *
23	263.880	4.362	263.850	3.486	263.820	2.744	263.740	0.858	263.820	2.921	263.820	2.917
24	263.880	4.660 *	263.850	3.583 *	263.810	2.673	263.740	0.837 *	263.790	1.952 *	263.810	2.651
25	263.880	4.660 *	263.850	3.460	263.810	2.655	263.750	0.905 *	263.780	1.697 #	263.810	2.629
26	263.880	4.338	263.840	3.583 *	263.810	2.651	263.750	0.915	263.780	1.697 #	263.800	2.535
27	263.880	4.660 *	263.840	3.324	263.810	2.622	263.750	0.905 *	263.780	1.697 #	263.800	2.506
28	263.880	4.268	263.840	3.289	263.810	2.402 *	263.750	0.932	263.780	1.697 #	263.800	2.546
29	263.880	4.186	263.840	3.258	263.860	3.788	263.750	0.910	263.780	1.697 #	263.780	1.697 *
30	263.880	4.204	263.840	3.267			263.740	0.850	263.770	1.462 #	263.760	1.246 #
31	263.880	4.188	263.840	3.262 *			263.740	0.839			263.740	0.803
Daily M												
Ten-Dai	263.910	6.385	263.895	5.059	263.856	3.658	263.835	3.148	263.779	1.120	263.735	0.804
Ten-Da	263.892	5.264	263.903	5.924	263.840	3.310	263.778	1.103	263.759	1.267	263.746	0.983
Ten-Da	263.880	4.394	263.845	3.425	263.819	2.775	263.748	0.895	263.793	2.080	263.796	2.291
Monthl												
Min.	263.880	4.186	263.840	3.258	263.810	2.402	263.740	0.837	263.740	0.812	263.720	0.621
Max.	263.920	8.113	263.990	11.45	263.870	4.043	263.850	3.519	263.830	3.053	263.820	2.919
Mean	263.894	5.317	263.880	4.758	263.839	3.264	263.786	1.689	263.777	1.489	263.760	1.39

Peak Computed Discharge = 427.7 cumecs on 15/08/2015 Corres. Water Level :266.17 m

Lowest Computed Discharge = 0.837 cumecs on 24/03/2016 Corres. Water Level :263.74 m

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

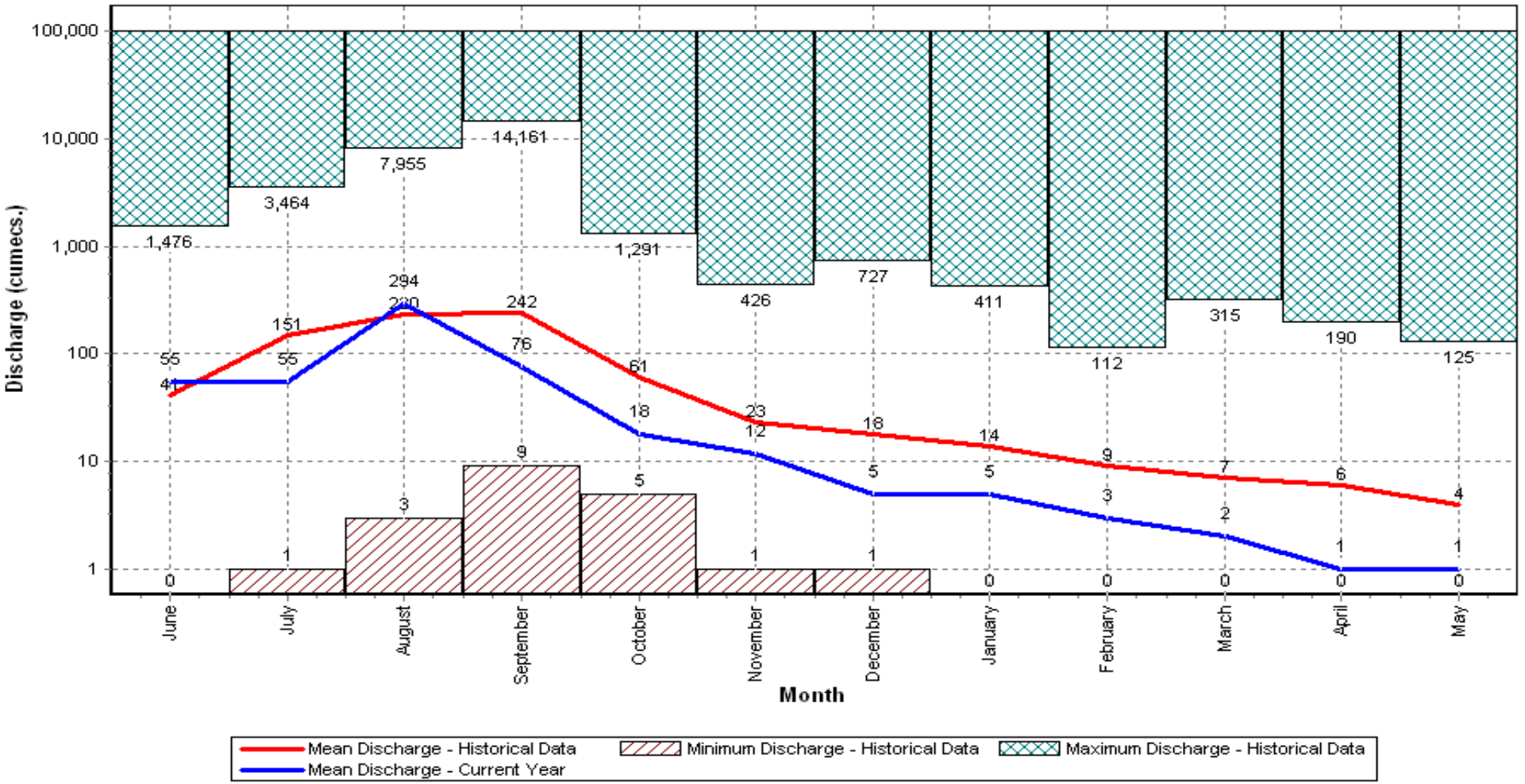
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016

Station Name : SATRAPUR (AGH4BF6) | **Data considered : 1986-2016** | **Division : Wainganga Div., Nagpur**

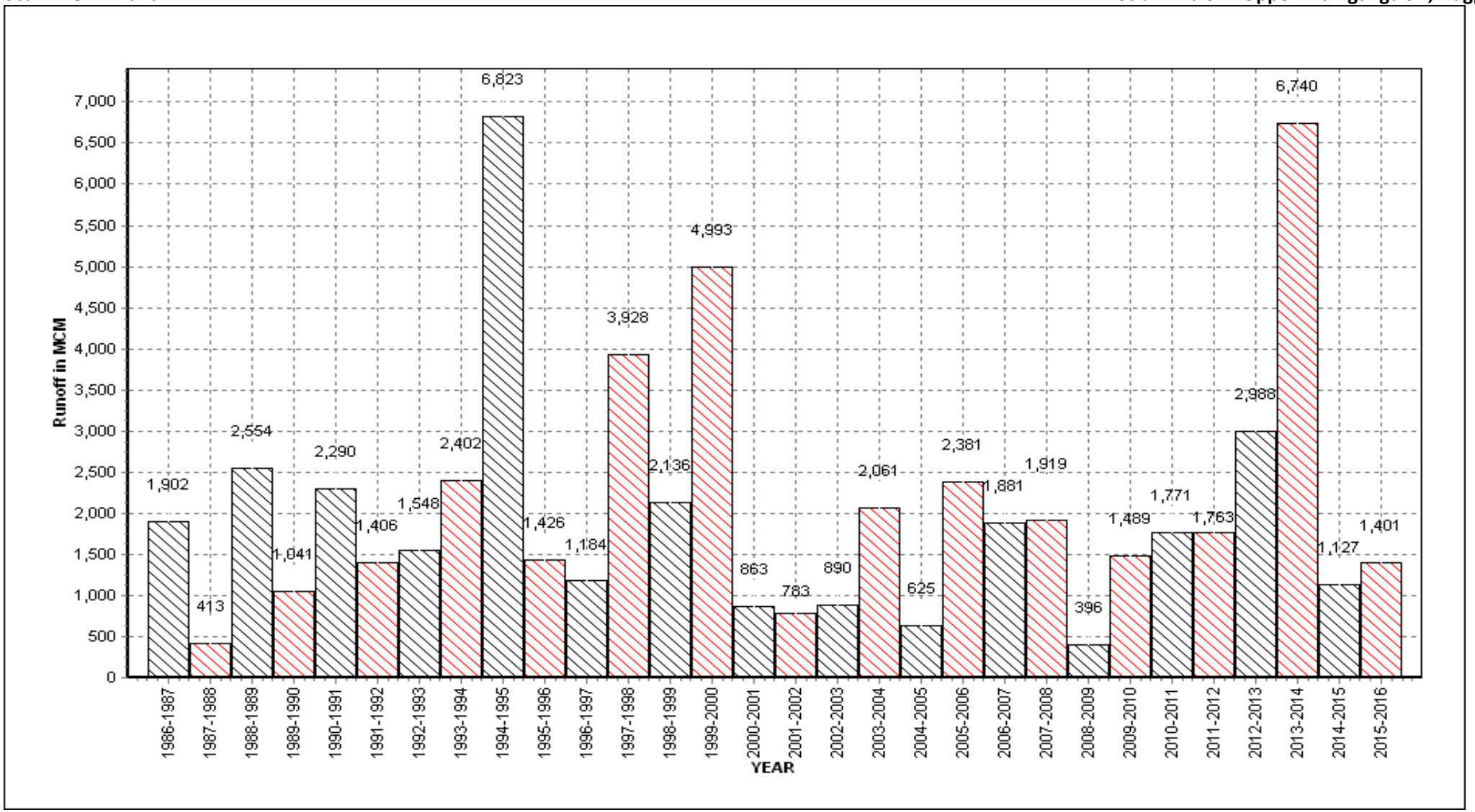
Local River : Khanan | **Sub-Division : Upper Wainganga SD, Nagpur**



Annual Runoff Values for the period: 1986 - 2016

Station Name : SATRAPUR (AGH4BF6) **Division : Wainganga Div., Nagpur**

Local River : Khanan **Sub-Division : Upper Wainganga SD, Nagpur**



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

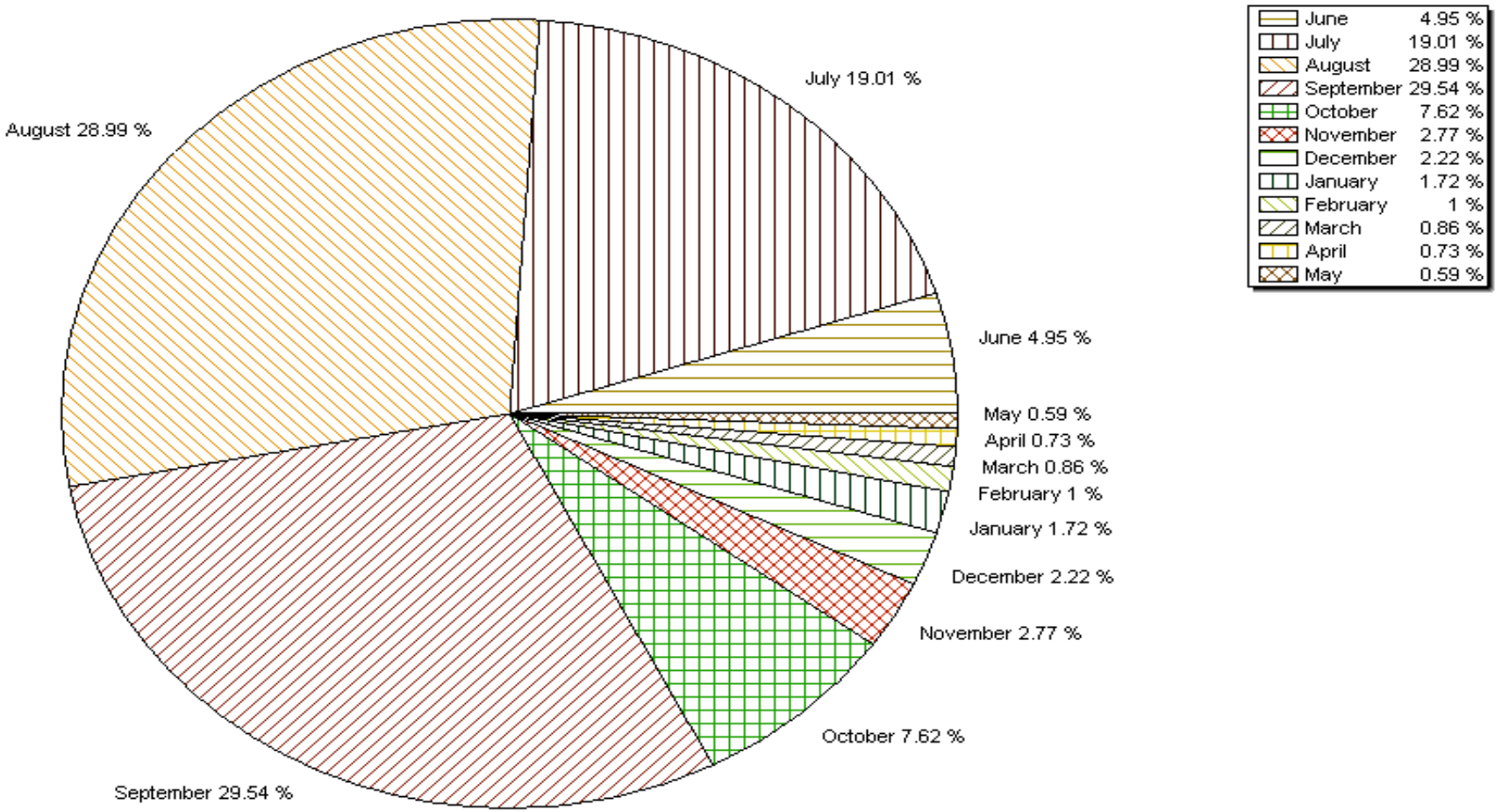
Monthly Average Runoff based on period : 1986-2015

Station Name : SATRAPUR (AGH4BF6)

Local River : Khanan

Division : Wainganga Div., Nagpur

Sub-Division : Upper Wainganga SD, Nagpur



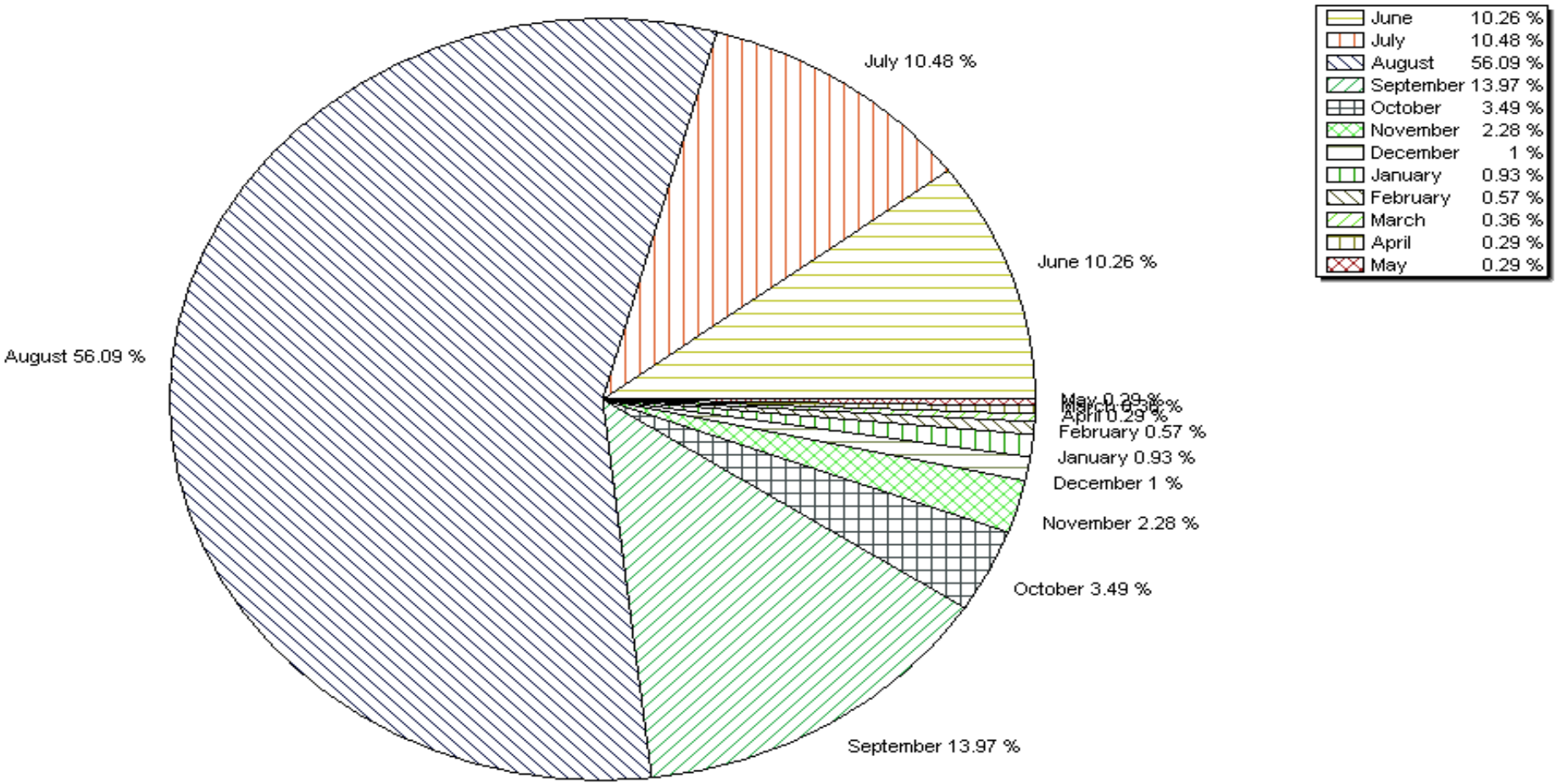
Monthly Runoff for the Year : 2015-2016

Station Name : SATRAPUR (AGH4BF6)

Division : Wainganga Div., Nagpur

Local River : Khanan

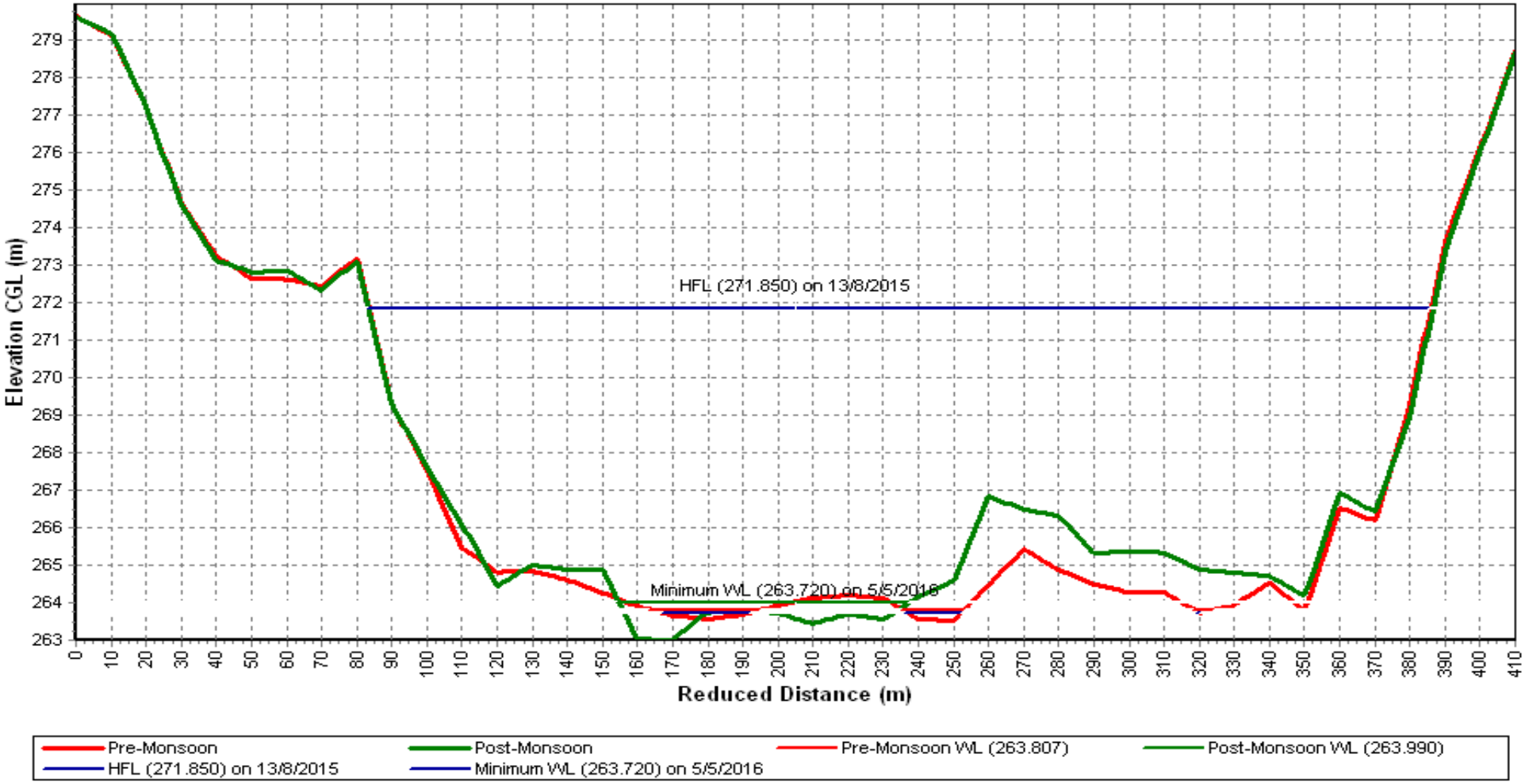
Sub-Division : Upper Wainganga SD, Nagpur



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

Station Name : SATRAPUR (AGH4BF6) **Division : Wainganga Div., Nagpur**

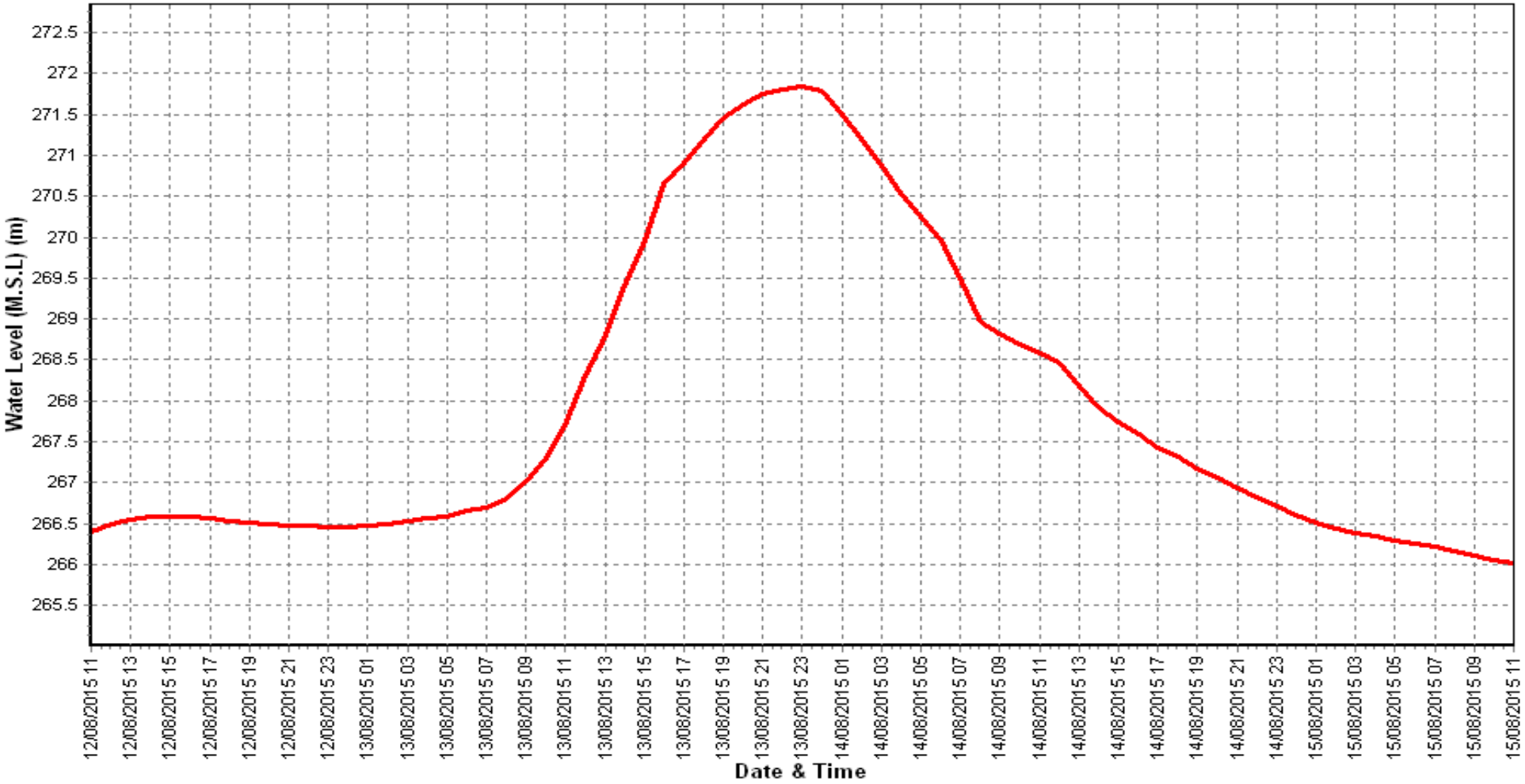
Local River : Khanan **Sub-Division : Upper Wainganga SD, Nagpur**



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

Station Name : SATRAPUR (AGH4BF6) **Division : Wainganga Div., Nagpur**

Local River : Khanan **Sub-Division : Upper Wainganga SD, Nagpur**

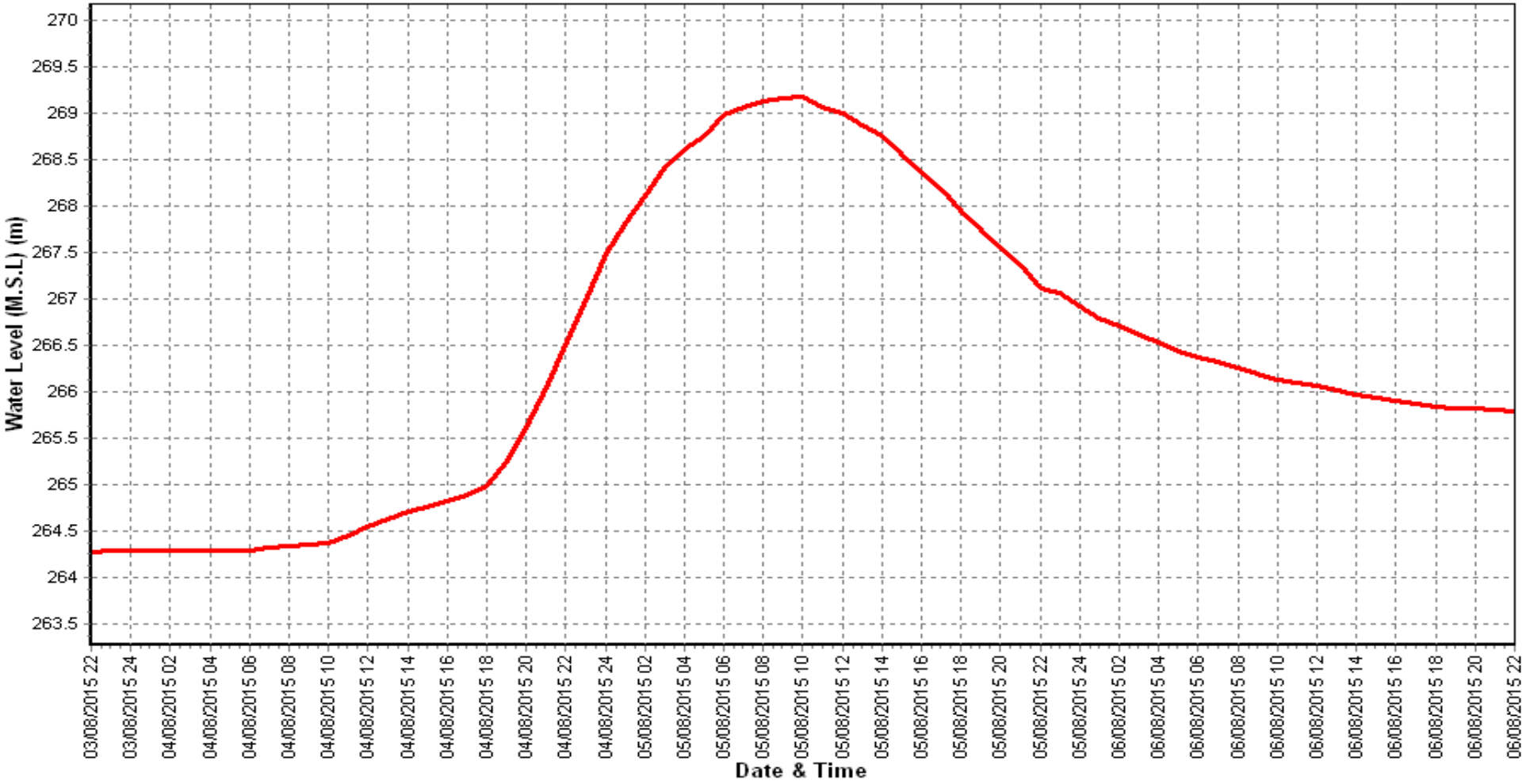


Time Span: 72 Hrs

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

Station Name : SATRAPUR (AGH4BF6) **Division : Wainganga Div., Nagpur**

Local River : Khanan **Sub-Division : Upper Wainganga SD, Nagpur**

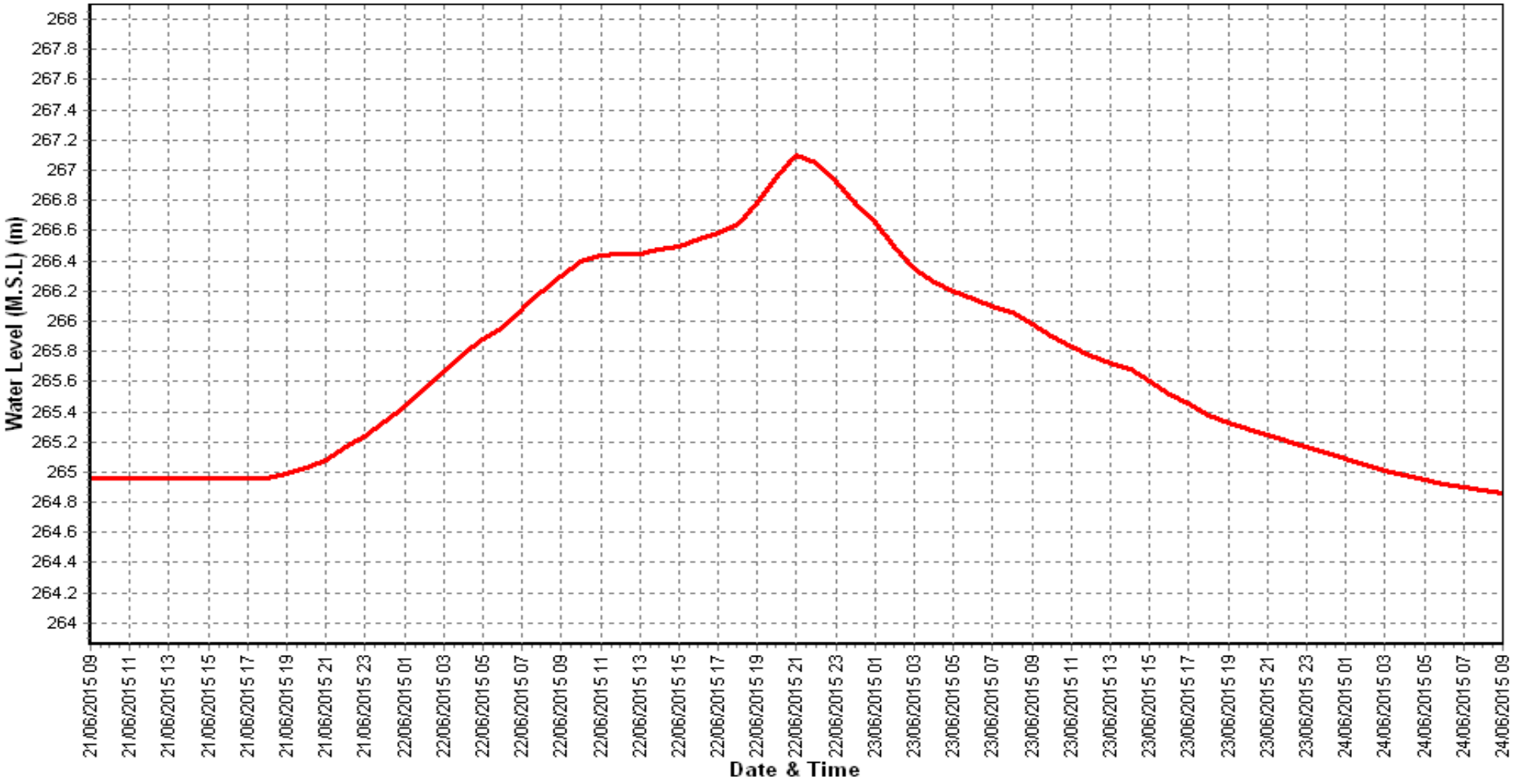


Time Span: 72 Hrs

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

Station Name : SATRAPUR (AGH4BF6) **Division : Wainganga Div., Nagpur**

Local River : Khanan **Sub-Division : Upper Wainganga SD, Nagpur**



Time Span: 72 Hrs

HISTORY SHEET

Water Year : 2015-2016

Site	**: RAMAKONA**		**Code**	**: AGH4BQ3**	
State	: Madhya Pradesh		District	Chhindwara	
Basin	: Godavari		Independent River	: Godavari	
Tributary	: Pranhita		Sub Tributary	: Wainganga	
Sub-Sub Tributary	: Khanan		Local River	: Khanan	
Division	: Wainganga Div., Nagpur		Sub-Division	: Upper Wainganga SD, Nagpur	
Drainage Area	: 2500 Sq. Km.		Bank	: Left	
Latitude	: 21°43'12"		Longitude	: 78°49'27"	
Zero of Gauge (m)	: 338 (m.s.l) 336.38 (m.s.l) 335.95 (m.s.l)		01.01.1985 01.06.1996 01.06.2002	- 31.05.1996 - 31.05.2002	
	Opening Date		Closing Date		
Gauge	: 13.02.1986		**HFL During 2015-16**	**: 342.250**	
			Corres. Discharge	**: 812.798 Cumecs(Estimated)**	
Discharge	: 21.11.1986		**Date & Time of**	**: 04.08.2015**	
			Occurance	**: 00.00 hrs.**	
Sediment	: 12.11.2014				
Water Quality	: 01.06.2014				

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

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1987-1988	480.0	342.195	28.08.1987	0.000		01.06.1987
1988-1989	450.0	342.500	22.08.1988	0.004	339.910	03.05.1989
1989-1990	710.0	343.540	13.06.1989	0.001	339.930	08.03.1990
1990-1991	1253	344.545	23.08.1990	0.000	339.910	22.03.1991
1991-1992	3560	349.500	30.07.1991	0.000	339.340	26.01.1992
1992-1993	1099	344.220	16.08.1992	0.000	339.395	20.02.1993
1993-1994	1044	344.740	16.07.1993	0.000	339.660	06.05.1994
1994-1995	2490	347.000	06.09.1994	0.000	339.485	09.05.1995
1995-1996	372.5	342.560	02.09.1995	0.076	339.670	22.05.1996
1996-1997	452.6	341.108	27.07.1996	0.029	338.005	30.06.1996
1997-1998	2126	344.980	25.07.1997	0.100	338.130	18.06.1997
1998-1999	1510	343.590	15.09.1998	0.117	338.005	30.05.1999
1999-2000	996.9	343.110	18.09.1999	0.210	338.195	20.05.2000
2000-2001	533.2	341.218	19.07.2000	0.103	338.190	20.04.2001
2001-2002	906.5	341.680	15.08.2001	0.042	338.225	05.05.2002
2002-2003	638.1	340.950	25.06.2002	0.055	337.675	29.05.2003
2003-2004	1537	342.950	27.07.2003	0.047	337.690	11.06.2003
2004-2005	516.4	340.570	23.08.2004	0.038	337.550	17.05.2005
2005-2006	2049	344.250	15.09.2005	0.042	337.555	23.06.2005
2006-2007	1362	341.350	14.08.2006	0.058	337.400	09.05.2007

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**
2007-2008	3071	344.150	08.07.2007	0.029	337.405	12.06.2007
2008-2009	87.78	338.710	11.08.2008	0.051	337.340	25.05.2009
2009-2010	2238	343.970	20.07.2009	0.058	337.340	16.06.2009
2010-2011	416.3	340.090	19.08.2010	0.000	337.230	15.06.2010
2011-2012	315.4	339.880	28.08.2011	0.104	337.200	30.05.2012
2012-2013	4548	346.450	07.08.2012	0.066	336.700	30.05.2013
2013-2014	3027	348.550	23.08.2013	0.067	336.700	01.06.2013
2014-2015	2627	342.500	23.07.2014	0.000	336.890	31.05.2015

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

Stage-Dischage Data for the period 2015 - 2016

Station Name : RAMAKONA (AGH4BQ3) **Division : Wainganga Div., Nagpur**

Local River : Khanan **Sub-Division : Upper Wainganga SD, Nagpur**

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	336.900	0.000	337.130	3.264	337.360	8.796 #	337.540	34.81	337.260	13.15	337.140	6.775 *
2	336.890	0.000	337.100	2.473	337.320	7.650 *	337.505	32.83	337.250	12.20 *	337.110	5.877
3	336.890	0.000	337.040	1.904 #	338.250	43.54	337.520	33.59	337.240	11.71	337.090	5.148
4	336.890	0.000	337.130	3.895	339.250	160.4 #	337.445	29.66	337.230	11.09 *	337.080	4.401
5	336.890	0.000	337.070	2.331 *	340.300	366.6	337.410	24.08	337.220	10.55	337.080	4.610
6	336.890	0.000	337.000	1.403 #	338.830	109.8 #	337.360	19.03 *	337.210	10.14	337.080	4.543
7	336.890	0.000	337.010	1.804	338.500	92.12	337.360	15.68	337.200	9.921	337.070	3.962
8	336.890	0.000	336.990	1.201	338.290	110.2 #	337.350	15.91	337.190	9.676	337.070	4.190 *
9	336.890	0.000	336.980	1.085	338.750	171.2 *	337.350	17.63	337.180	10.05	337.060	3.796
10	336.920	0.000	337.000	1.172	339.100	223.4 #	337.490	26.99	337.170	9.891	337.060	3.348
11	336.910	0.000	337.010	1.400	338.180	96.95 #	337.430	22.10	337.170	8.087 *	337.050	3.573 *
12	336.910	0.000	337.850	29.60 *	339.850	349.7 #	337.300	13.72	337.160	7.355	337.040	2.952
13	336.910	0.000	337.450	14.00	338.840	184.2 #	337.280	13.85 *	337.150	7.640	337.030	2.808
14	337.010	0.000	337.270	7.278	339.850	344.0	337.595	37.75	337.140	6.794	337.020	2.528
15	336.970	1.078 #	337.220	6.476	338.740	169.8 *	337.580	34.89	337.130	6.899	337.020	2.744 *
16	337.135	4.269	337.130	3.326	338.360	118.9 *	337.480	24.37	337.130	6.802	337.010	2.262
17	337.180	4.283 #	337.060	2.184 #	338.170	95.77 #	337.310	15.72 *	337.130	6.739	337.000	2.030
18	337.830	26.19	337.040	1.904 *	338.180	96.95 #	338.590	137.2	337.130	6.364 *	337.000	2.158
19	337.540	17.24	337.100	2.804 *	338.065	87.63	338.330	124.7	337.130	6.556	336.990	1.899
20	338.120	45.77	337.060	2.184 #	338.010	77.66 #	337.930	69.10 *	337.120	6.241	336.990	1.853
21	339.030	132.7 *	337.600	17.55	337.885	58.02	337.660	40.64	337.110	5.238	336.980	1.799
22	338.610	86.37	337.495	14.68	337.805	53.63	337.560	38.28	337.110	5.586 *	336.980	1.819 *
23	337.950	33.53	337.830	24.14	337.750	51.09 *	337.495	33.72	337.110	4.954	336.970	1.619
24	337.550	11.84	338.750	101.3 #	337.695	41.38	337.450	31.53	337.110	5.586 *	336.960	1.656
25	337.390	9.126	338.150	48.63 #	337.650	41.08	337.420	23.26 *	337.110	5.586 *	336.960	1.432 *
26	337.380	8.346	338.140	47.92 *	337.610	39.02	337.380	20.40 #	337.100	4.170	336.940	1.093 #
27	337.340	7.380	337.665	16.58	337.560	35.86	337.350	18.63 *	337.100	4.106	336.930	0.939
28	337.320	7.650 *	337.540	15.04	337.950	68.95	337.320	15.61	337.090	4.024	336.930	1.170
29	337.200	4.227	337.450	13.45	337.650	41.30	337.300	14.83	337.100	5.688	336.930	0.943 *
30	337.150	3.681	337.525	14.65	337.540	32.53 *	337.280	14.06	337.190	10.47	336.920	0.986
31			337.425	13.24	337.600	40.40			337.225	11.75		
Daily Mean												
Ten-Dai	336.894	0.000	337.045	2.053	338.595	129.4	337.433	25.02	337.215	10.84	337.084	4.665
Ten-Da	337.252	9.882	337.219	7.115	338.624	162.2	337.682	49.34	337.139	6.948	337.015	2.481
Ten-Da	337.692	30.48	337.779	29.75	337.700	45.75	337.422	25.10	337.123	6.105	336.950	1.346
Monthly												
Min.	336.890	0.000	336.980	1.085	337.320	7.650	337.280	13.72	337.090	4.024	336.920	0.939
Max.	339.030	132.7	338.750	101.3	340.300	366.6	338.590	137.2	337.260	13.15	337.140	6.775
Mean	337.279	13.46	337.362	13.51	338.287	110.3	337.512	33.15	337.158	7.903	337.016	2.83

Annual Runoff in MCM = 483 Annual Runoff in mm = 193

Peak Observed Discharge = 366.6 cumecs on 05-08-2015 Corres. Water Level :340.3 m

Lowest Observed Discharge = 0.000 cumecs on 01-06-2015 Corres. Water Level :336.9 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

Stage-Dischage Data for the period 2015 - 2016

Station Name : RAMAKONA (AGH4BQ3) **Division : Wainganga Div., Nagpur**

Local River : Khanan **Sub-Division : Upper Wainganga SD, Nagpur**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	336.920	0.507 #	336.840	0.291 #	336.800	0.252	336.830	0.131	336.800	0.000	335.950	0.000
2	336.900	0.449 #	336.840	0.291 #	336.800	0.229	336.830	0.126	336.800	0.000	335.950	0.000
3	336.900	0.449 #	336.840	0.291 *	336.800	0.215	336.830	0.128	336.800	0.000	335.950	0.000
4	336.900	0.449 #	336.840	0.335	336.800	0.191	336.820	0.125	336.790	0.000	335.950	0.000
5	336.890	0.397	336.830	0.335	336.800	0.183	336.830	0.137	336.790	0.000	335.950	0.000
6	336.890	0.421 *	336.830	0.327	336.800	0.178	336.820	0.120 *	336.790	0.000	335.950	0.000
7	336.890	0.436	336.830	0.306	336.800	0.199 *	336.820	0.124	336.790	0.000	335.950	0.000
8	336.890	0.326	336.830	0.293	336.800	0.161	336.820	0.121	336.790	0.000	335.950	0.000
9	336.890	0.320	336.830	0.296	336.800	0.158	336.810	0.115	336.790	0.000	335.950	0.000
10	336.890	0.421 #	336.830	0.267 *	336.800	0.154	336.810	0.115	336.790	0.000	335.950	0.000
11	336.890	0.312	336.820	0.307	336.800	0.159	336.810	0.113	336.790	0.000	335.950	0.000
12	336.890	0.468	336.820	0.287	336.800	0.154	336.810	0.110	336.790	0.000	335.950	0.000
13	336.890	0.421 *	336.820	0.273	336.800	0.150	336.810	0.105 *	336.790	0.000	335.950	0.000
14	336.880	0.394 #	336.820	0.270	336.800	0.199 *	336.810	0.106	336.790	0.000	335.950	0.000
15	336.880	0.394 #	336.820	0.269	336.800	0.153	336.810	0.109	336.790	0.000	335.950	0.000
16	336.880	0.485	336.820	0.262	336.800	0.158	336.810	0.104	336.790	0.000	335.950	0.000
17	336.880	0.394 #	336.820	0.243 *	336.800	0.150	336.810	0.105 #	336.790	0.000	335.950	0.000
18	336.880	0.387	336.820	0.266	336.800	0.152	336.810	0.085	336.790	0.000	335.950	0.000
19	336.870	0.367 #	336.820	0.289	336.820	0.138	336.810	0.085	336.790	0.000	335.950	0.000
20	336.860	0.341 *	336.820	0.271	336.820	0.138	336.810	0.105 *	336.790	0.000	335.950	0.000
21	336.860	0.341 #	336.820	0.284	336.820	0.120 *	336.810	0.083	336.790	0.000	335.950	0.000
22	336.860	0.307	336.810	0.277	336.820	0.136	336.810	0.105 #	336.780	0.000	335.950	0.000
23	336.860	0.291	336.810	0.254	336.820	0.135	336.810	0.105 #	336.780	0.000	335.950	0.000
24	336.850	0.315 *	336.810	0.221 *	336.820	0.133	336.810	0.105 *	336.780	0.000	335.950	0.000
25	336.840	0.291 *	336.810	0.248	336.830	0.139	336.810	0.105 *	336.780	0.000	335.950	0.000
26	336.840	0.255	336.810	0.221 *	336.830	0.131	336.810	0.105 #	336.780	0.000	335.950	0.000
27	336.840	0.291 *	336.810	0.266	336.830	0.126	336.800	0.091 *	336.780	0.000	335.950	0.000
28	336.840	0.291 #	336.800	0.199 #	336.830	0.137 *	336.800	0.000	336.780	0.000	335.950	0.000
29	336.840	0.291 #	336.800	0.233	336.830	0.127	336.800	0.000	336.780	0.000	335.950	0.000
30	336.840	0.291 #	336.800	0.232			336.800	0.000	336.780	0.000	335.950	0.000
31	336.840	0.291 #	336.800	0.199 *			336.800	0.000			335.950	0.000
Daily M												
Ten-Dai	336.896	0.417	336.834	0.303	336.800	0.192	336.822	0.124	336.793	0.000	335.950	0.000
Ten-Da	336.880	0.396	336.820	0.274	336.804	0.155	336.810	0.103	336.790	0.000	335.950	0.000
Ten-Da	336.846	0.296	336.807	0.239	336.826	0.132	336.805	0.064	336.781	0.000	335.950	0.000
Monthly												
Min.	336.840	0.255	336.800	0.199	336.800	0.120	336.800	0.000	336.780	0.000	335.950	0.000
Max.	336.920	0.507	336.840	0.335	336.830	0.252	336.830	0.137	336.800	0.000	335.950	0.000
Mean	336.873	0.367	336.820	0.271	336.809	0.16	336.812	0.096	336.788	0	335.950	0

Peak Computed Discharge = 171.2 cumecs on 09-08-2015 Corres. Water Level :338.75 m

Lowest Computed Discharge = 0.091 cumecs on 27-03-2016 Corres. Water Level :336.8 m

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

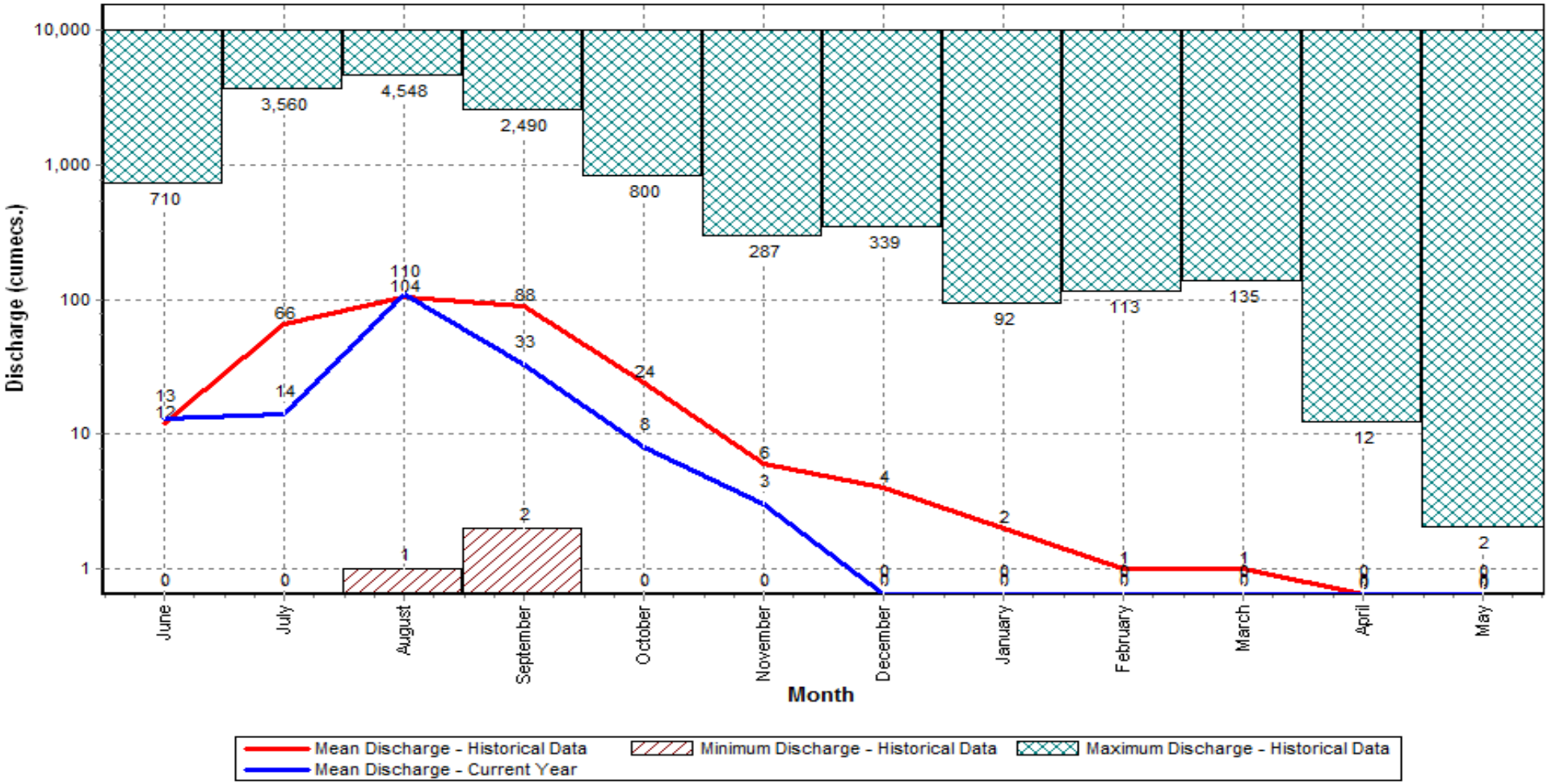
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016

Station Name : RAMAKONA (AGH4BQ3) | **Data considered : 1987-2016** | **Division : Wainganga Div., Nagpur**

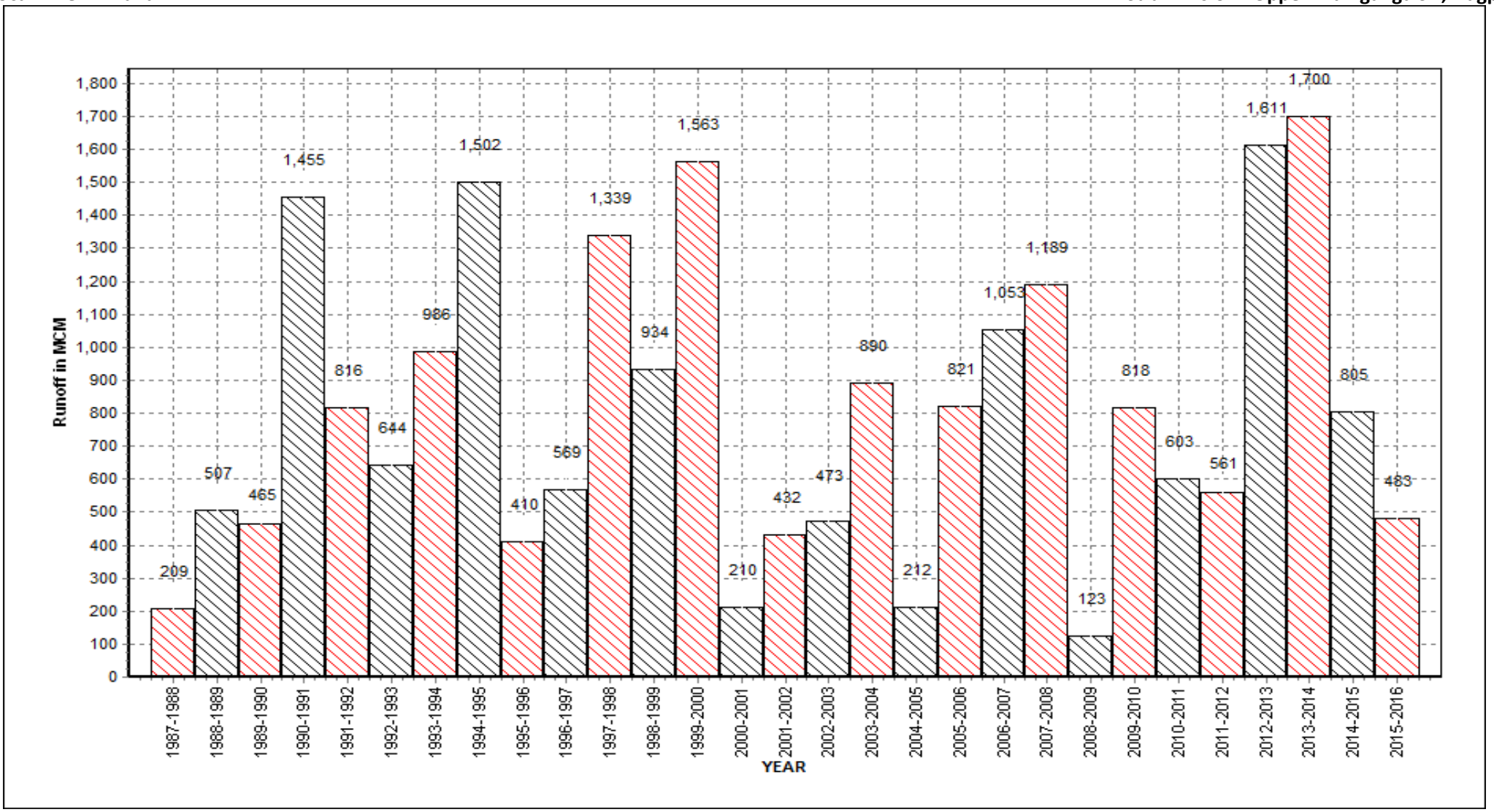
Local River : Khanan | **Sub-Division : Upper Wainganga SD, Nagpur**



Annual Runoff Values for the period: 1987 - 2016

Station Name : RAMAKONA (AGH4BQ3) **Division : Wainganga Div., Nagpur**

Local River : Khanan **Sub-Division : Upper Wainganga SD, Nagpur**



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

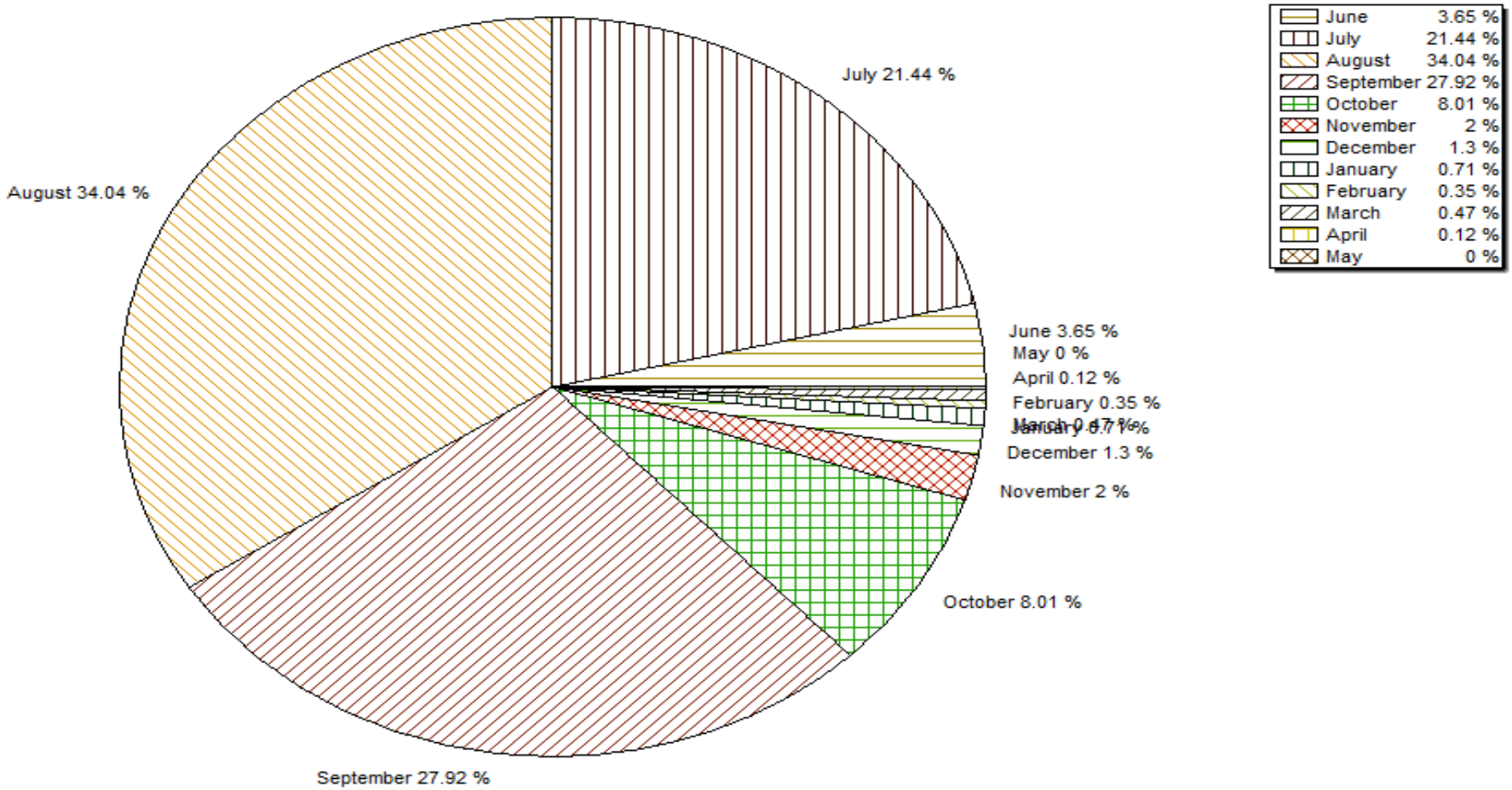
Monthly Average Runoff based on period : 1987-2015

Station Name : RAMAKONA (AGH4BQ3)

Local River : Khanan

Division : Wainganga Div., Nagpur

Sub-Division : Upper Wainganga SD, Nagpur



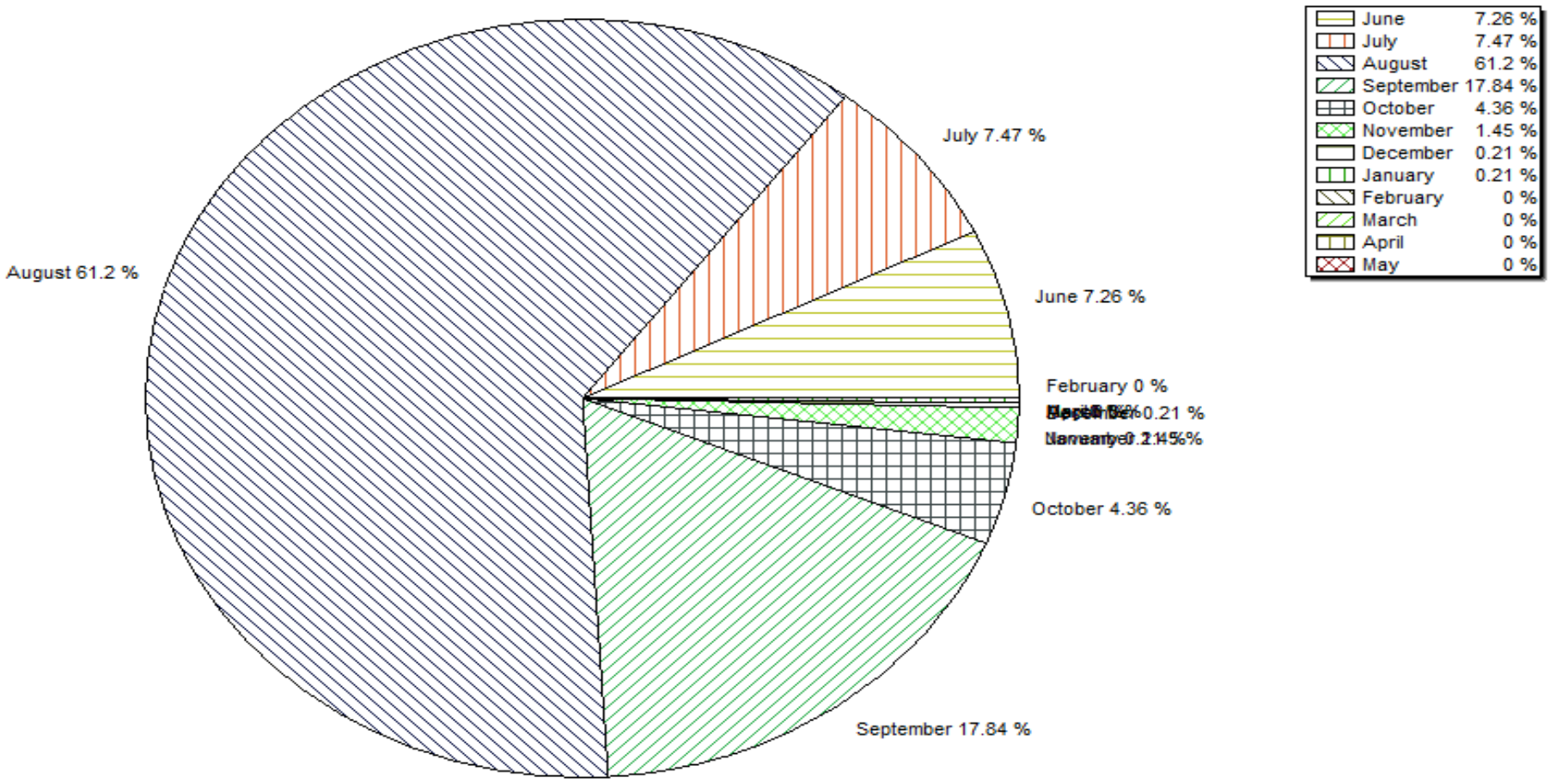
Monthly Runoff for the Year : 2015-2016

Station Name : RAMAKONA (AGH4BQ3)

Local River : Khanan

Division : Wainganga Div., Nagpur

Sub-Division : Upper Wainganga SD, Nagpur



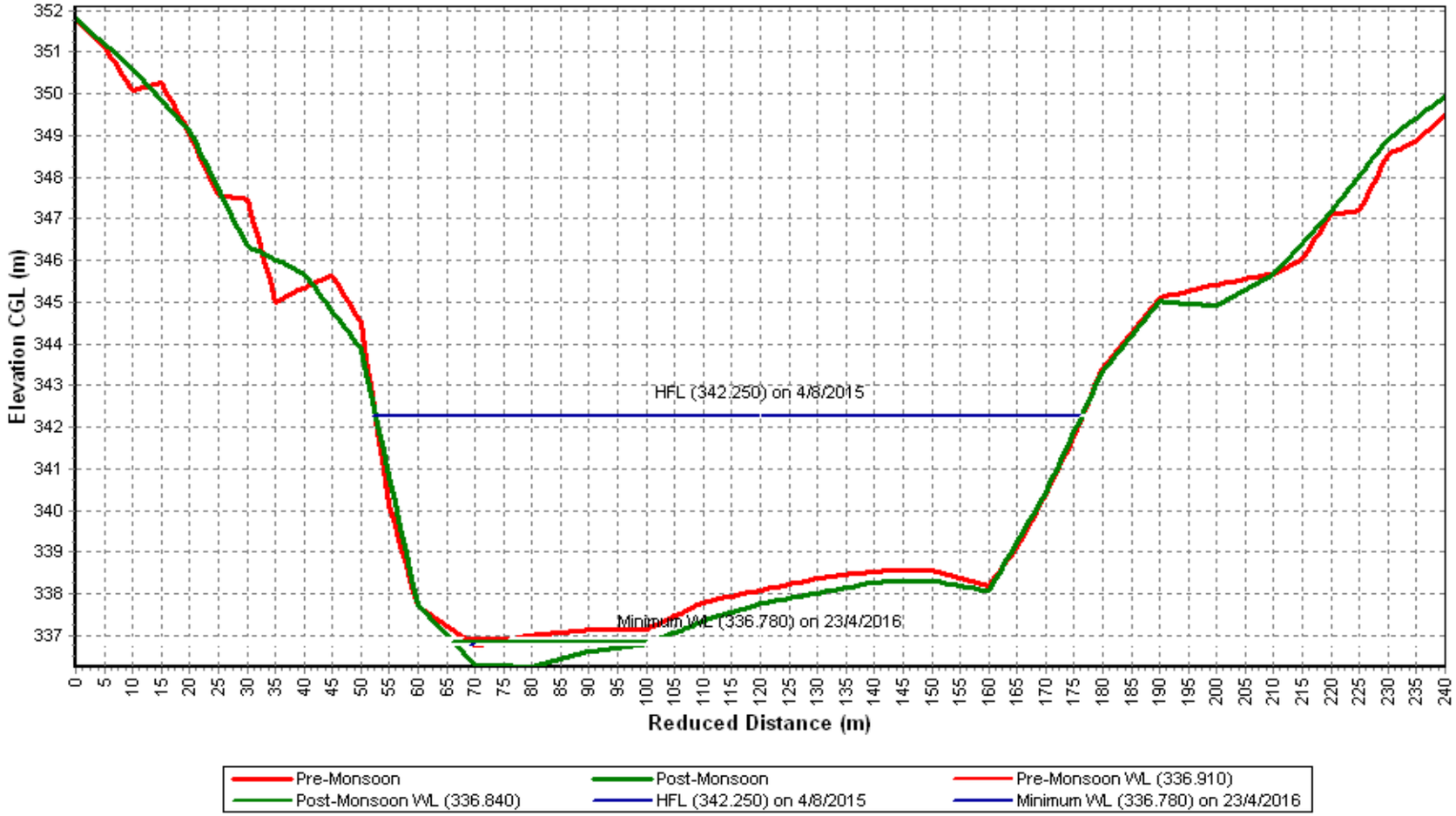
Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2015-2016

Division : Wainganga Div., Nagpur

Station Name : RAMAKONA (AGH4BQ3)

Sub-Division : Upper Wainganga SD, Nagpur

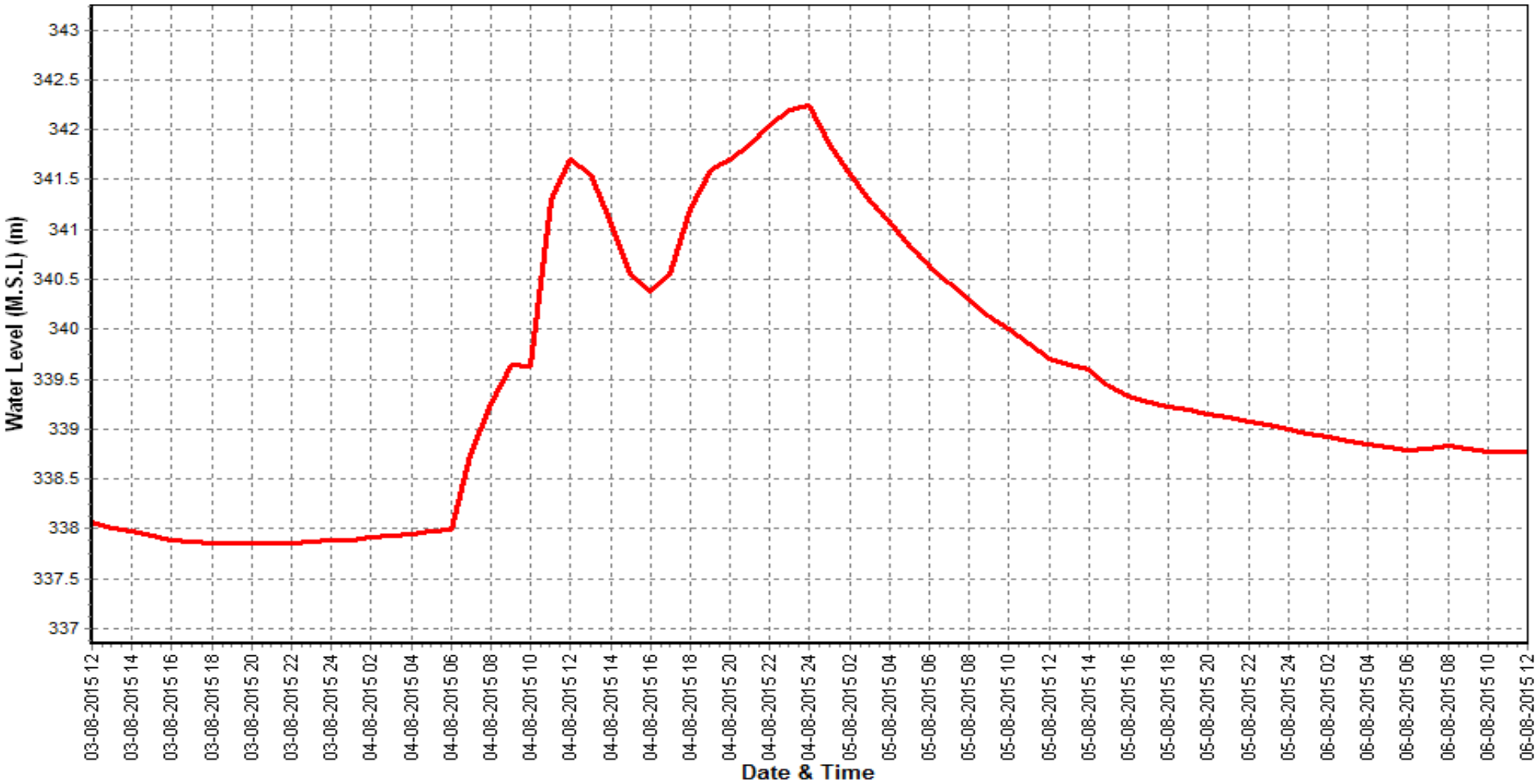
Local River : Khanan



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

Station Name : RAMAKONA (AGH4BQ3) **Division : Wainganga Div., Nagpur**

Local River : Khanan **Sub-Division : Upper Wainganga SD, Nagpur**

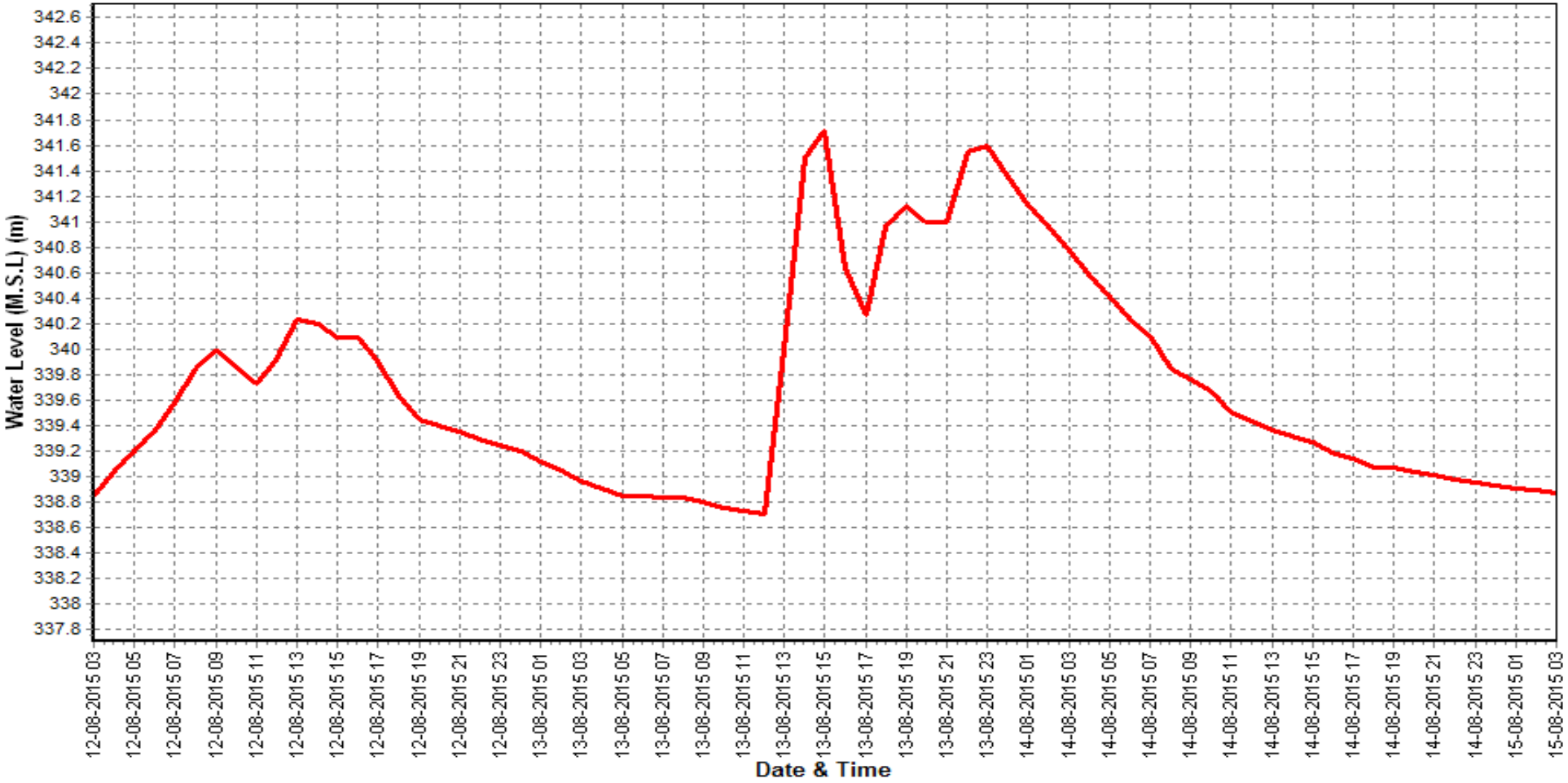


Time Span: 72 Hrs

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

Station Name : RAMAKONA (AGH4BQ3) **Division : Wainganga Div., Nagpur**

Local River : Khanan **Sub-Division : Upper Wainganga SD, Nagpur**

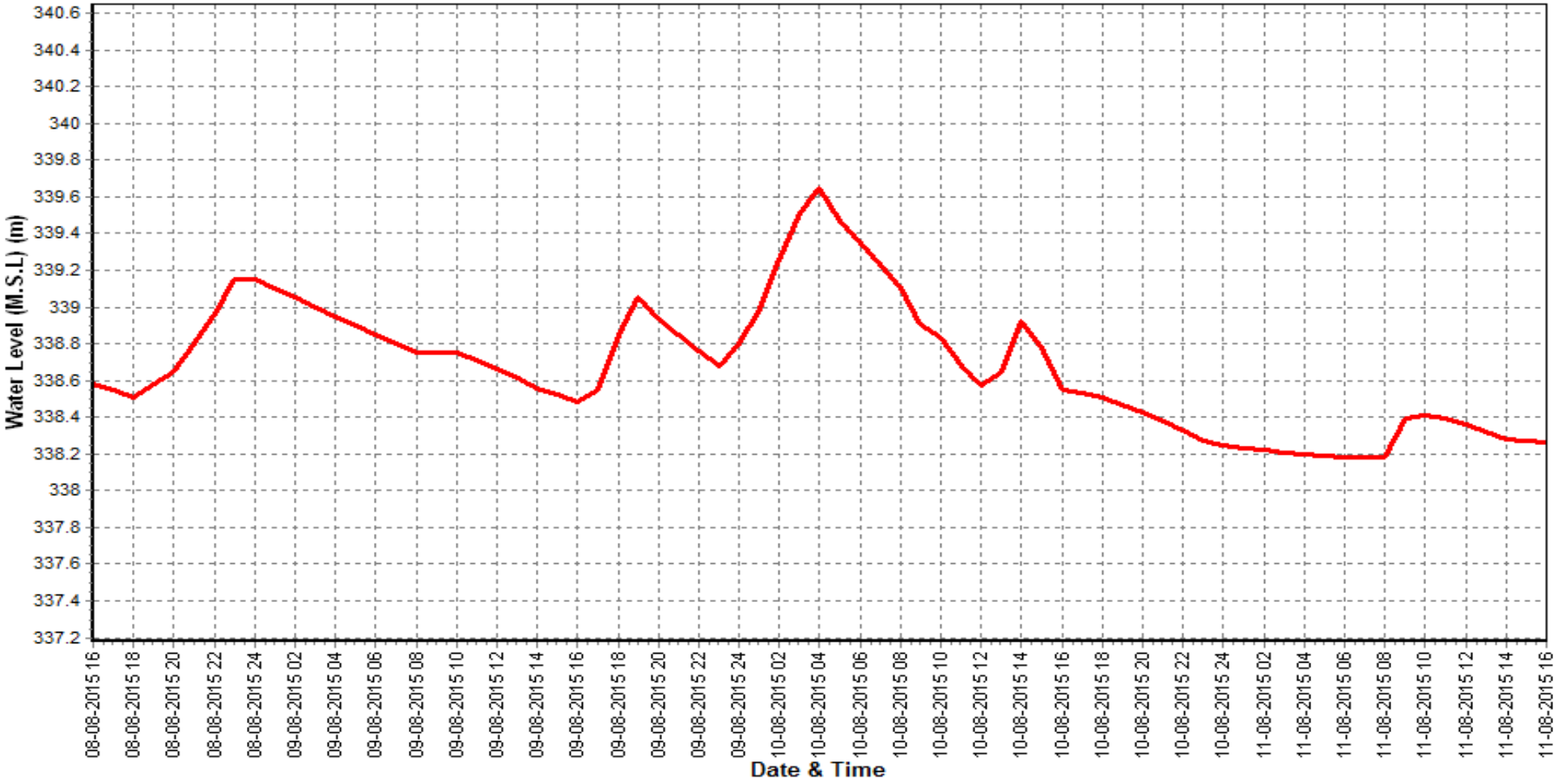


Time Span: 72 Hrs

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

Station Name : RAMAKONA (AGH4BQ3) **Division : Wainganga Div., Nagpur**

Local River : Khanan **Sub-Division : Upper Wainganga SD, Nagpur**



Time Span: 72 Hrs

HISTORY SHEET

Water Year : 2015-2016

Site	**:**	**RAJEGAON**	**Code**	**:**	**AGH4MC3**
State	:	Madhya Pradesh	District		Balaghat
Basin	:	Godavari	Independent River	:	Godavari
Tributary	:	Pranhita	Sub Tributary	:	Wainganga
Sub-Sub Tributary	:	Bagh	Local River	:	Bagh
Division	:	Wainganga Div., Nagpur	Sub-Division	:	Upper Wainganga SD, Nagpur
Drainage Area	:	5380 Sq. Km.	Bank	:	Right
Latitude	:	21°37'32"	Longitude	:	80°15'14"
Zero of Gauge (m)	:	272 (m.s.l)	01.12.1985		
		Opening Date	Closing Date		
Gauge	:	06.12.1985			
Discharge	:	26.07.1986			
Sediment	:	01.09.2014			
Water Quality	:	01.02.2012			

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	3095	280.670	15.08.1986	0.000	0.000	15.07.1986
1987-1988	323.6	276.100	24.08.1987	0.000	273.380	26.04.1988
1988-1989	2192	279.465	01.08.1988	0.060	273.390	27.05.1989
1989-1990	1176	277.625	25.08.1989	0.000	273.520	11.04.1990
1990-1991	3785	280.730	22.07.1990	0.000	0.000	02.06.1990
1991-1992	2739	280.535	24.08.1991	0.000		26.04.1992
1992-1993	3248	280.480	21.08.1992	0.000		02.04.1993
1993-1994	1905	279.530	16.07.1993	0.000		07.05.1994
1994-1995	7431	283.035	06.09.1994	0.000		12.06.1994
1995-1996	3985	280.695	25.07.1995	0.000		10.05.1996
1996-1997	928.7	277.420	17.08.1996	0.000		22.04.1997
1997-1998	4478	282.170	30.07.1997	0.000		14.06.1997
1998-1999	4232	282.400	13.09.1998	0.000	273.910	06.04.1999
1999-2000	3612	281.660	18.09.1999	0.000	273.940	20.03.2000
2000-2001	1892	279.730	20.07.2000	0.000	274.360	25.01.2001
2001-2002	2532	280.025	19.07.2001	0.000		25.01.2002
2002-2003	3973	281.830	18.08.2002	0.000	274.480	25.01.2003
2003-2004	2517	280.300	28.07.2003	0.000	273.290	13.04.2004
2004-2005	603.9	276.630	10.08.2004	0.000	273.160	01.05.2005
2005-2006	6891	284.200	15.09.2005	0.000		19.06.2005
2006-2007	5519	284.070	14.08.2006	0.000		04.05.2007

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**
2007-2008	2132	279.505	08.07.2007	0.020	273.260	25.06.2007
2008-2009	2646	279.945	11.08.2008	0.001	273.010	03.04.2009
2009-2010	1314	277.630	15.07.2009	0.043	273.100	14.03.2010
2010-2011	2427	279.455	08.09.2010	0.000		03.04.2011
2011-2012	2907	279.780	08.09.2011	0.000		24.04.2012
2012-2013	2567	279.620	05.09.2012	0.000		25.05.2013
2013-2014	3000	280.795	26.07.2013	0.000		01.06.2013
2014-2015	9682	284.260	23.07.2014	0.000	272.800	03.05.2015

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

Stage-Dischage Data for the period 2015 - 2016

Station Name : RAJEGAON (AGH4MC3) **Division : Wainganga Div., Nagpur**

Local River : Bagh **Sub-Division : Upper Wainganga SD, Nagpur**

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	272.000	0.000	273.870	34.52	273.760	26.81	275.430	249.3	274.140	52.99	273.650	22.03 *
2	272.000	0.000	273.755	29.92	273.600	19.62 *	276.305	539.5	274.120	53.57 *	273.540	18.55
3	272.000	0.000	273.895	38.15	273.645	25.26	275.305	213.4	274.130	51.79	273.470	13.82
4	272.000	0.000	273.885	33.45	274.560	99.27 #	274.790	126.6	274.150	56.16 *	273.430	10.67
5	272.000	0.000	273.580	18.70 *	275.750	286.8	274.530	100.1	274.100	51.27	273.410	10.97
6	272.000	0.000	273.485	18.12	275.220	207.8	274.360	76.41 *	274.030	43.53	273.390	11.78
7	272.000	0.000	273.340	9.640 #	274.940	151.2	274.260	64.78	274.000	44.66	273.360	10.68
8	272.000	0.000	273.240	6.875 #	274.690	113.2	274.100	54.01	273.960	42.85	273.350	9.948 *
9	272.000	0.000	273.390	13.11	274.530	95.61 *	274.415	78.50	273.960	42.90	273.340	9.131
10	272.000	0.000	274.120	52.65	274.355	69.58	274.395	85.34	273.940	42.28	273.330	8.934
11	272.000	0.000	275.480	256.5	274.680	104.3	274.115	54.36	273.900	36.74 *	273.340	9.640 *
12	272.000	0.000	275.030	167.8 *	274.435	80.06	274.015	47.79	273.910	38.70	273.350	9.501
13	272.000	0.000	274.730	92.15	275.045	178.0	274.110	52.72 *	273.900	38.07	273.340	9.061
14	272.000	0.000	274.370	69.28	276.305	532.3	273.975	40.07	273.890	33.79	273.340	9.062
15	272.000	0.000	273.950	38.79	276.380	496.6 *	274.150	52.43	273.880	38.01	273.300	8.467 *
16	272.000	0.000	273.695	27.38	275.870	347.6 *	274.530	101.9	273.870	36.55	273.270	8.076
17	272.000	0.000	273.550	18.59	275.760	319.5 #	275.340	225.1 *	273.870	36.45	273.260	7.315
18	272.000	0.000	273.720	25.70 *	275.290	210.6	277.450	1035	273.880	35.40 *	273.250	7.001
19	272.000	0.000	274.650	110.7 *	275.070	182.0	275.890	373.3	273.870	36.30	273.260	7.471
20	272.000	0.000	274.670	114.2	275.540	276.9	275.480	254.4 *	273.860	35.35	273.250	7.698
21	272.000	0.000	274.490	92.99	274.890	147.2	276.760	710.1	273.850	34.79	273.240	7.660
22	274.010	40.00	275.020	195.0	274.830	130.6	276.310	479.6	273.840	32.80 *	273.240	6.875 *
23	275.860	311.2	274.860	140.5 #	274.620	106.8 *	275.455	249.3	273.820	31.37	273.230	7.599
24	274.840	142.4	275.460	246.7	274.400	74.47	274.975	153.9	273.810	30.93 *	273.230	7.531
25	274.320	55.45	276.260	539.8	274.190	56.55	274.750	124.4 *	273.800	30.32 *	273.230	6.630 *
26	273.890	30.66	275.520	263.2 *	274.080	50.50	274.595	107.2	273.730	25.81	273.220	5.917
27	273.685	19.16	274.800	125.4	274.035	48.38	274.510	93.22 *	273.670	24.12	273.210	5.928
28	273.500	15.28 *	274.410	76.19	274.410	81.96	274.365	75.59	273.650	24.01	273.210	6.208
29	273.730	22.30	274.130	55.08	274.710	101.5	274.270	66.77	273.630	21.38	273.200	5.923 *
30	274.485	73.87	273.890	33.68	276.740	621.5 *	274.185	59.73	273.650	24.42	273.190	5.720
31			273.765	27.11	275.645	316.8			273.670	24.00		
Daily Mean												
Ten-Da	272.000	0.000	273.656	25.51	274.505	109.5	274.789	158.8	274.053	48.20	273.427	12.65
Ten-Da	272.000	0.000	274.384	92.11	275.438	272.8	274.906	223.7	273.883	36.54	273.296	8.329
Ten-Da	274.032	71.03	274.782	163.2	274.777	157.8	275.018	212.0	273.738	27.63	273.220	6.599
Monthly												
Min.	272.000	0.000	273.240	6.875	273.600	19.62	273.975	40.07	273.630	21.38	273.190	5.720
Max.	275.860	311.2	276.260	539.8	276.740	621.5	277.450	1035	274.150	56.16	273.650	22.03
Mean	272.677	23.68	274.291	95.86	274.902	179.3	274.904	198.2	273.886	37.14	273.314	9.193

Annual Runoff in MCM = 1457 Annual Runoff in mm = 271

Peak Observed Discharge = 1035 cumecs on 18-09-2015 Corres. Water Level :277.45 m

Lowest Observed Discharge = 0.000 cumecs on 01-06-2015 Corres. Water Level :272 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-Dischage Data for the period 2015 - 2016

Station Name : RAJEGAON (AGH4MC3) **Division : Wainganga Div., Nagpur**

Local River : Bagh **Sub-Division : Upper Wainganga SD, Nagpur**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	273.200	5.917	273.140	4.303	273.740	0.000	273.050	1.224 #	272.000	0.000	272.000	0.000
2	273.190	5.337	273.140	4.268	273.710	0.000	273.040	1.023 #	272.000	0.000	272.000	0.000
3	273.190	5.343	273.140	4.096 *	273.680	0.000	273.030	0.843 #	272.000	0.000	272.000	0.000
4	273.190	5.692	273.130	4.032	273.620	0.000	273.030	0.843 #	272.000	0.000	272.000	0.000
5	273.180	5.318	273.130	4.010	273.550	0.000	273.030	0.843 #	272.000	0.000	272.000	0.000
6	273.180	6.061 *	273.120	3.753	273.460	0.000	273.010	0.544 *	272.000	0.000	272.000	0.000
7	273.170	5.787	273.120	3.834	273.400	0.000	272.990	0.319 #	272.000	0.000	272.000	0.000
8	273.170	5.775	273.110	3.336	273.280	0.000	272.970	0.161 #	272.000	0.000	272.000	0.000
9	273.170	5.479	273.110	3.296	273.200	0.000	272.930	0.013 #	272.000	0.000	272.000	0.000
10	273.170	5.419	273.110	2.912 *	273.170	0.000	272.960	0.079	272.000	0.000	272.000	0.000
11	273.170	5.767	273.110	3.125	273.100	0.000	272.940	0.034	272.000	0.000	272.000	0.000
12	273.170	5.440	273.100	3.189	273.020	0.509	272.930	0.013 #	272.000	0.000	272.000	0.000
13	273.170	5.527 *	273.100	3.163	273.010	0.558	272.940	0.033 *	272.000	0.000	272.000	0.000
14	273.180	5.678	273.110	3.232	273.010	0.544 *	272.960	0.105 #	272.000	0.000	272.000	0.000
15	273.180	5.492	273.100	3.167	273.020	0.550	272.940	0.031	272.000	0.000	272.000	0.000
16	273.170	5.387	273.100	3.135	273.010	0.489	272.940	0.032	272.000	0.000	272.000	0.000
17	273.170	5.383	273.140	4.096 *	273.000	0.445	272.920	0.000	272.000	0.000	272.000	0.000
18	273.170	5.301	273.190	6.625 #	273.000	0.469	272.910	0.000	272.000	0.000	272.000	0.000
19	273.170	5.280	273.340	0.000	273.000	0.459	272.900	0.000	272.000	0.000	272.000	0.000
20	273.170	5.527 *	273.500	0.000	273.000	0.457	272.000	0.000	272.000	0.000	272.000	0.000
21	273.170	5.428	273.620	0.000	272.990	0.319 *	272.000	0.000	272.000	0.000	272.000	0.000
22	273.170	5.427	273.710	0.000	272.980	0.250	272.000	0.000	272.000	0.000	272.000	0.000
23	273.170	5.344	273.810	0.000	272.940	0.033 #	272.000	0.000	272.000	0.000	272.000	0.000
24	273.170	5.527 *	273.840	0.000	272.950	0.063 #	272.000	0.000	272.000	0.000	272.000	0.000
25	273.170	5.527 *	273.900	0.000	272.940	0.033 #	272.000	0.000	272.000	0.000	272.000	0.000
26	273.170	5.340	273.920	0.000	272.930	0.013 #	272.000	0.000	272.000	0.000	272.000	0.000
27	273.170	5.527 *	273.940	0.000	272.950	0.063 #	272.000	0.000	272.000	0.000	272.000	0.000
28	273.160	4.754	273.910	0.000	272.950	0.063 *	272.000	0.000	272.000	0.000	272.000	0.000
29	273.160	4.766	273.890	0.000	272.950	0.063 #	272.000	0.000	272.000	0.000	272.000	0.000
30	273.150	4.199	273.800	0.000			272.000	0.000	272.000	0.000	272.000	0.000
31	273.140	4.443	273.780	0.000			272.000	0.000			272.000	0.000
Daily M												
Ten-Da	273.181	5.613	273.125	3.784	273.481	0.000	273.004	0.589	272.000	0.000	272.000	0.000
Ten-Da	273.172	5.478	273.179	2.973	273.017	0.448	272.838	0.025	272.000	0.000	272.000	0.000
Ten-Da	273.164	5.117	273.829	0.000	272.953	0.100	272.000	0.000	272.000	0.000	272.000	0.000
Monthl												
Min.	273.140	4.199	273.100	0.000	272.930	0.000	272.000	0.000	272.000	0.000	272.000	0.000
Max.	273.200	6.061	273.940	6.625	273.740	0.558	273.050	1.224	272.000	0.000	272.000	0.000
Mean	273.172	5.393	273.392	2.18	273.157	0.185	272.594	0.198	272.000	0	272.000	0

Peak Computed Discharge = 621.5 cumecs on 30-08-2015 Corres. Water Level :276.74 m

Lowest Computed Discharge = 0.033 cumecs on 13-03-2016 Corres. Water Level :272.94 m

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

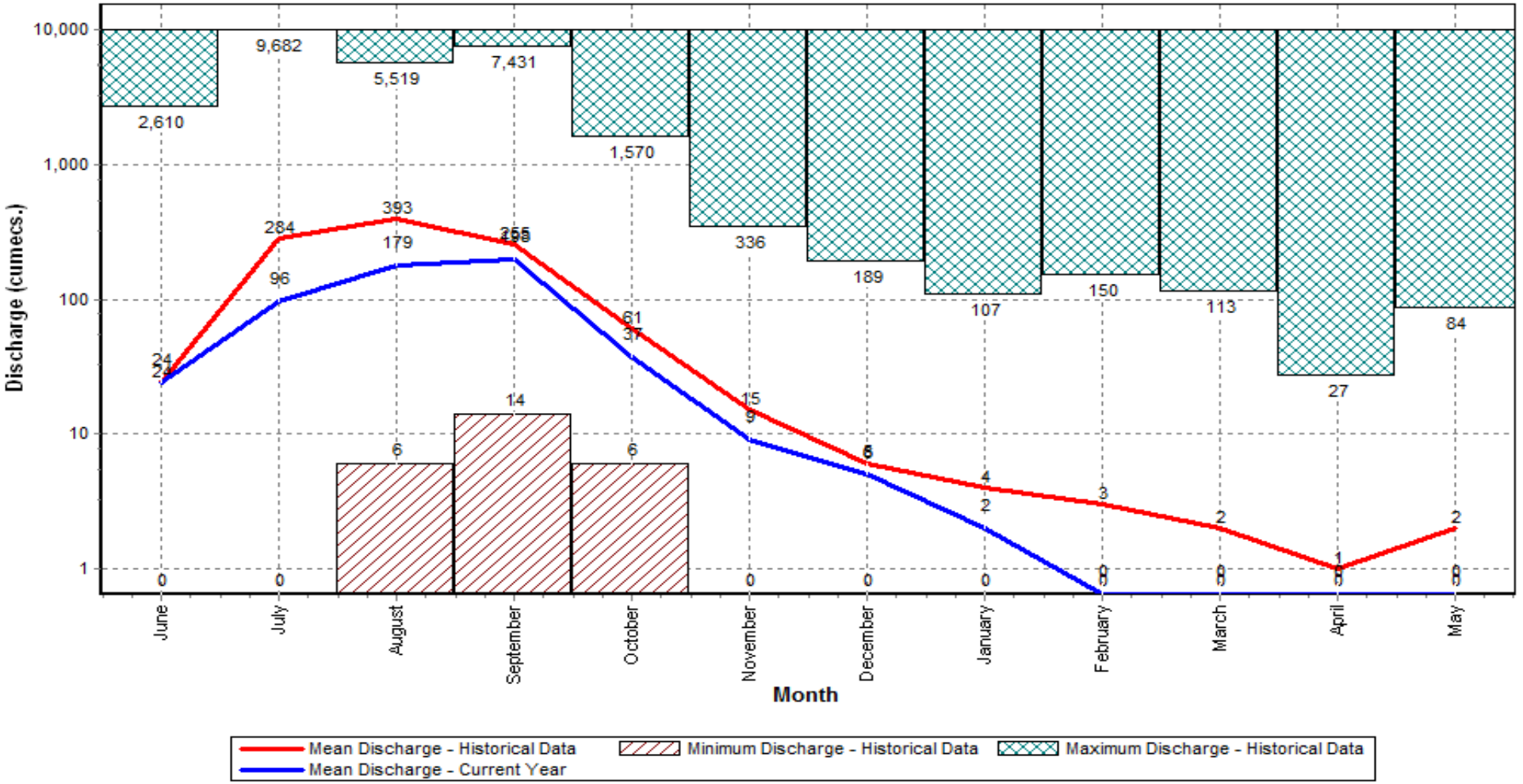
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016

Station Name : RAJEGAON (AGH4MC3) | **Data considered : 1986-2016** | **Division : Wainganga Div., Nagpur**

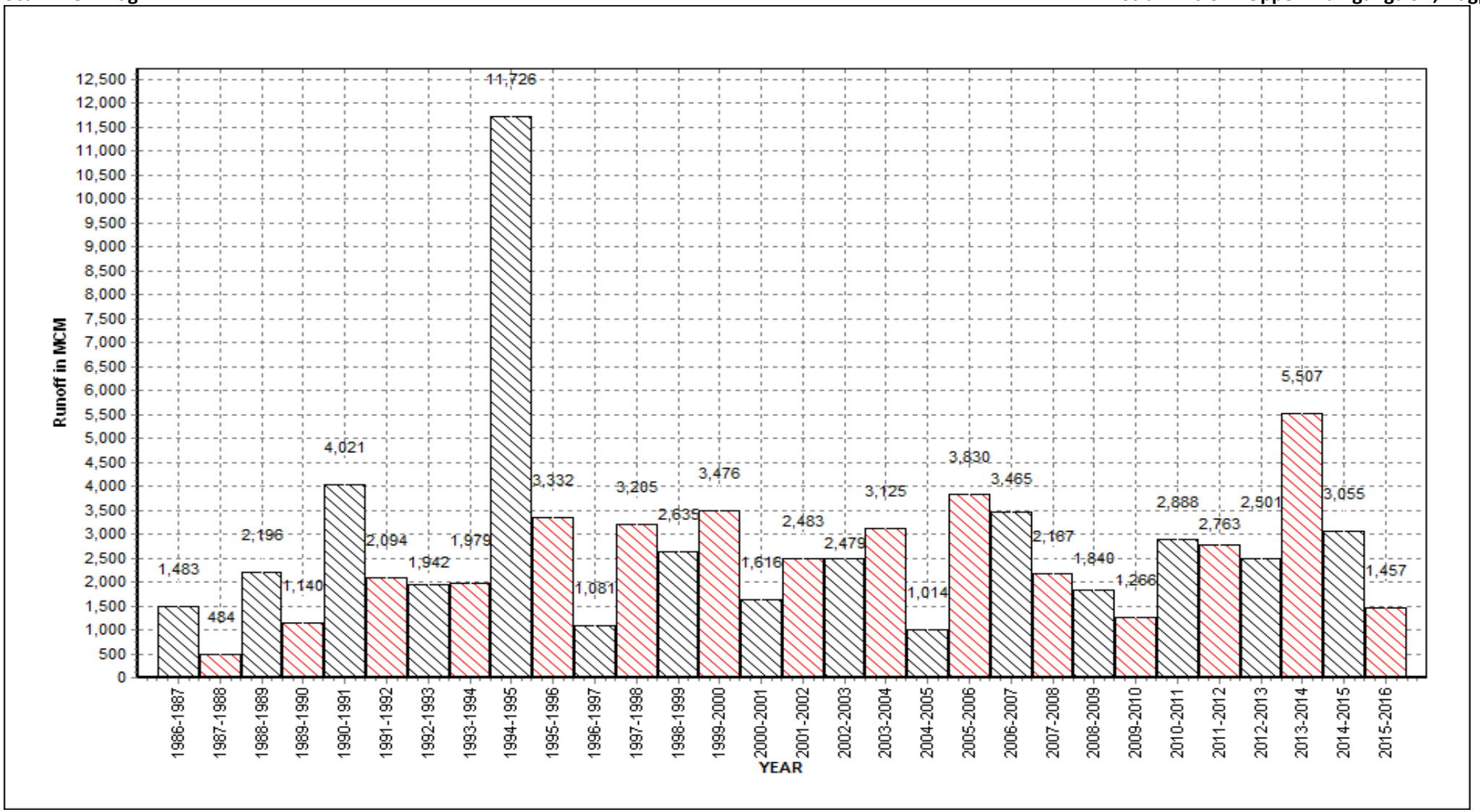
Local River : Bagh | **Sub-Division : Upper Wainganga SD, Nagpur**



Annual Runoff Values for the period: 1986 - 2016

Station Name : RAJEGAON (AGH4MC3) **Division : Wainganga Div., Nagpur**

Local River : Bagh **Sub-Division : Upper Wainganga SD, Nagpur**



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

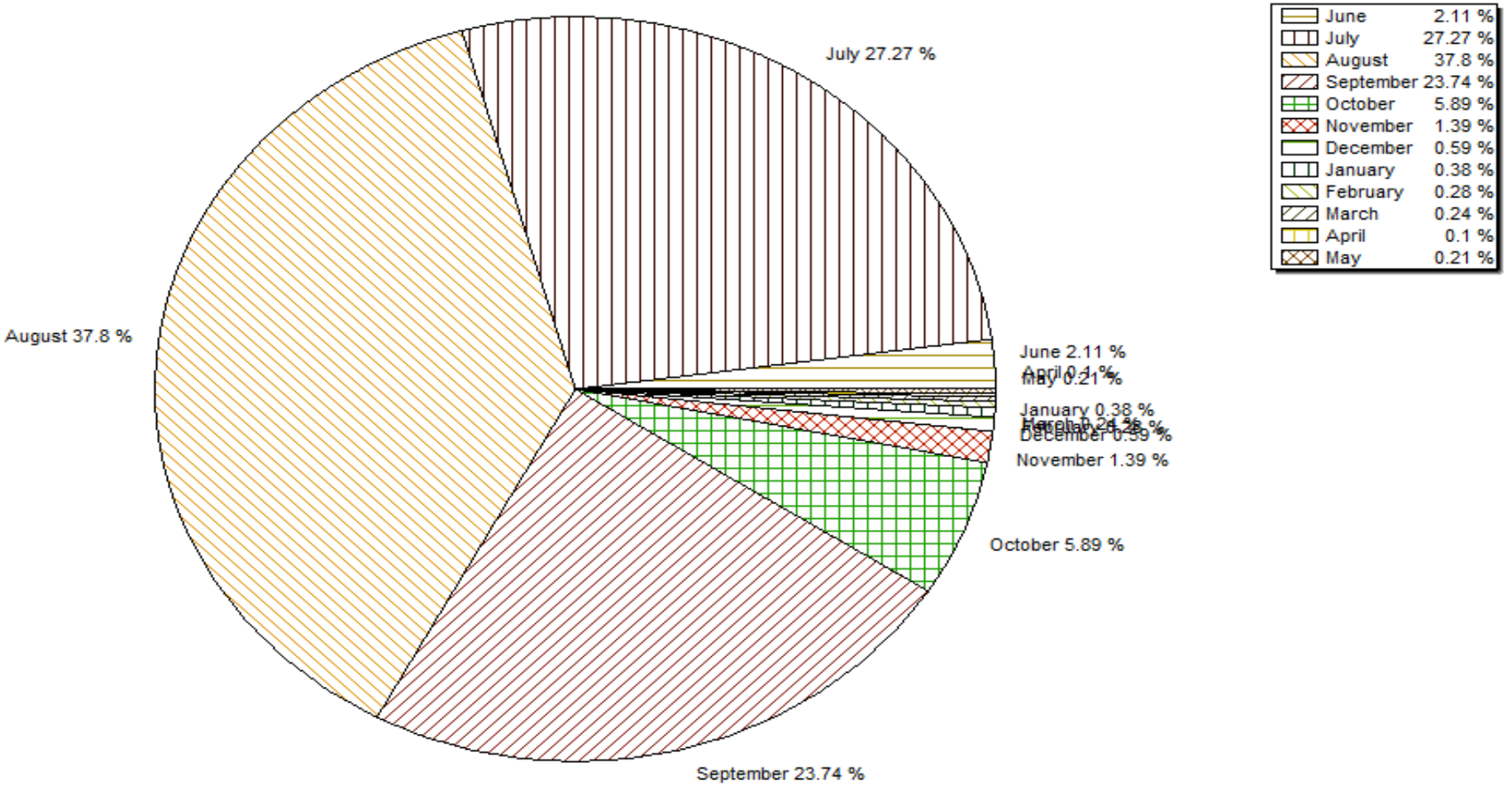
Monthly Average Runoff based on period : 1986-2015

Station Name : RAJEGAON (AGH4MC3)

Local River : Bagh

Division : Wainganga Div., Nagpur

Sub-Division : Upper Wainganga SD, Nagpur



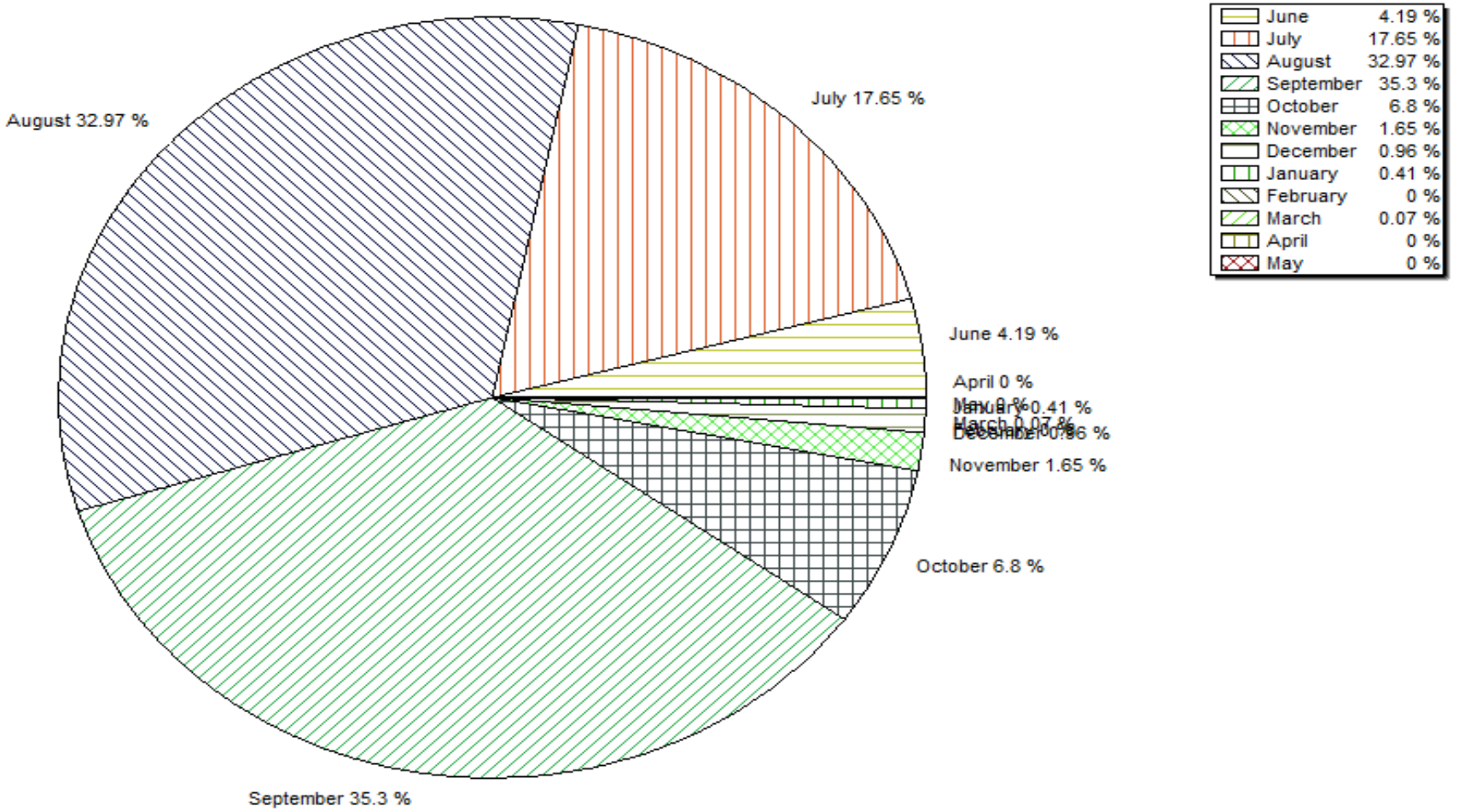
Monthly Runoff for the Year : 2015-2016

Station Name : RAJEGAON (AGH4MC3)

Local River : Bagh

Division : Wainganga Div., Nagpur

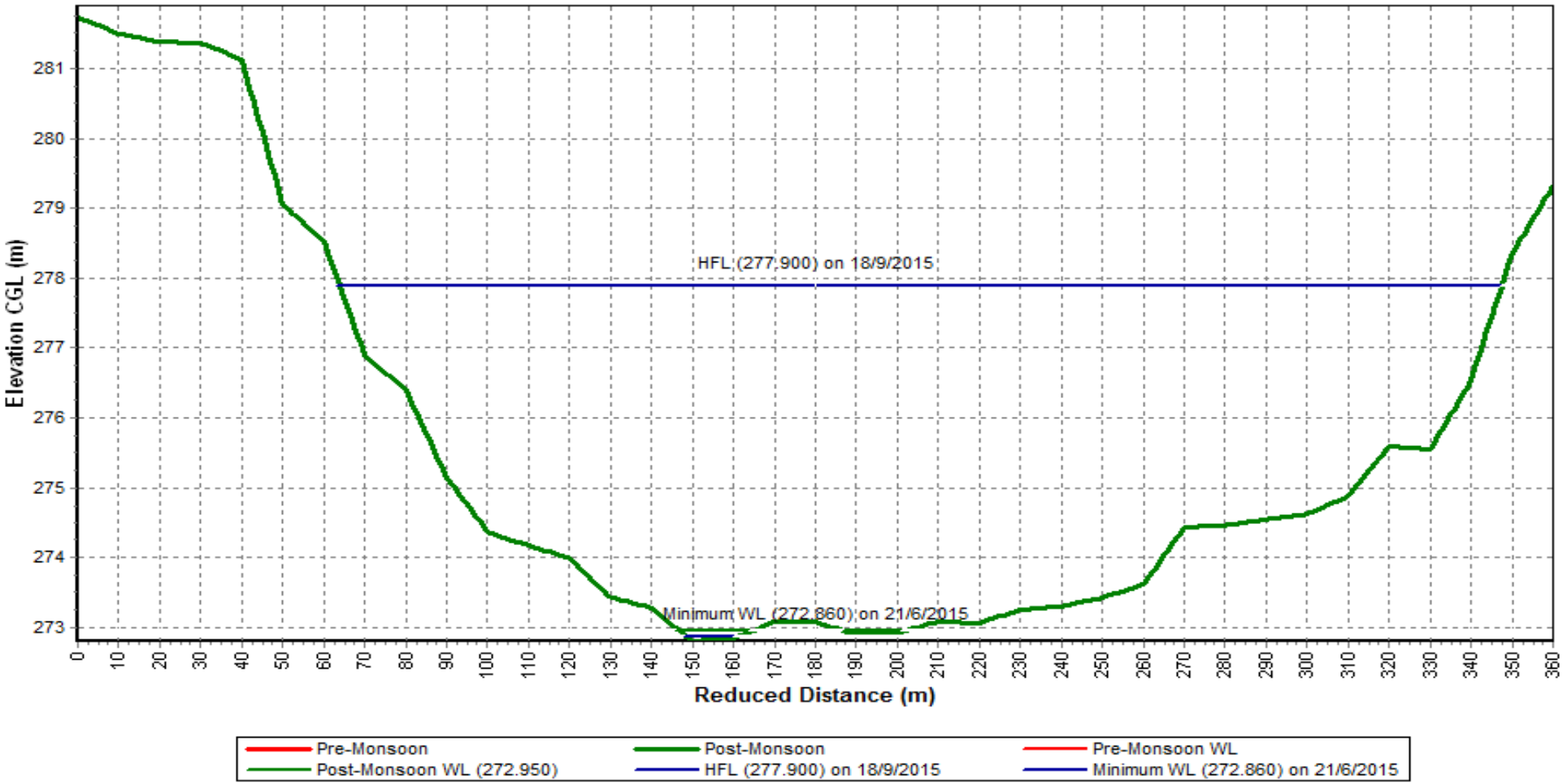
Sub-Division : Upper Wainganga SD, Nagpur



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

Station Name : RAJEGAON (AGH4MC3) **Division : Wainganga Div., Nagpur**

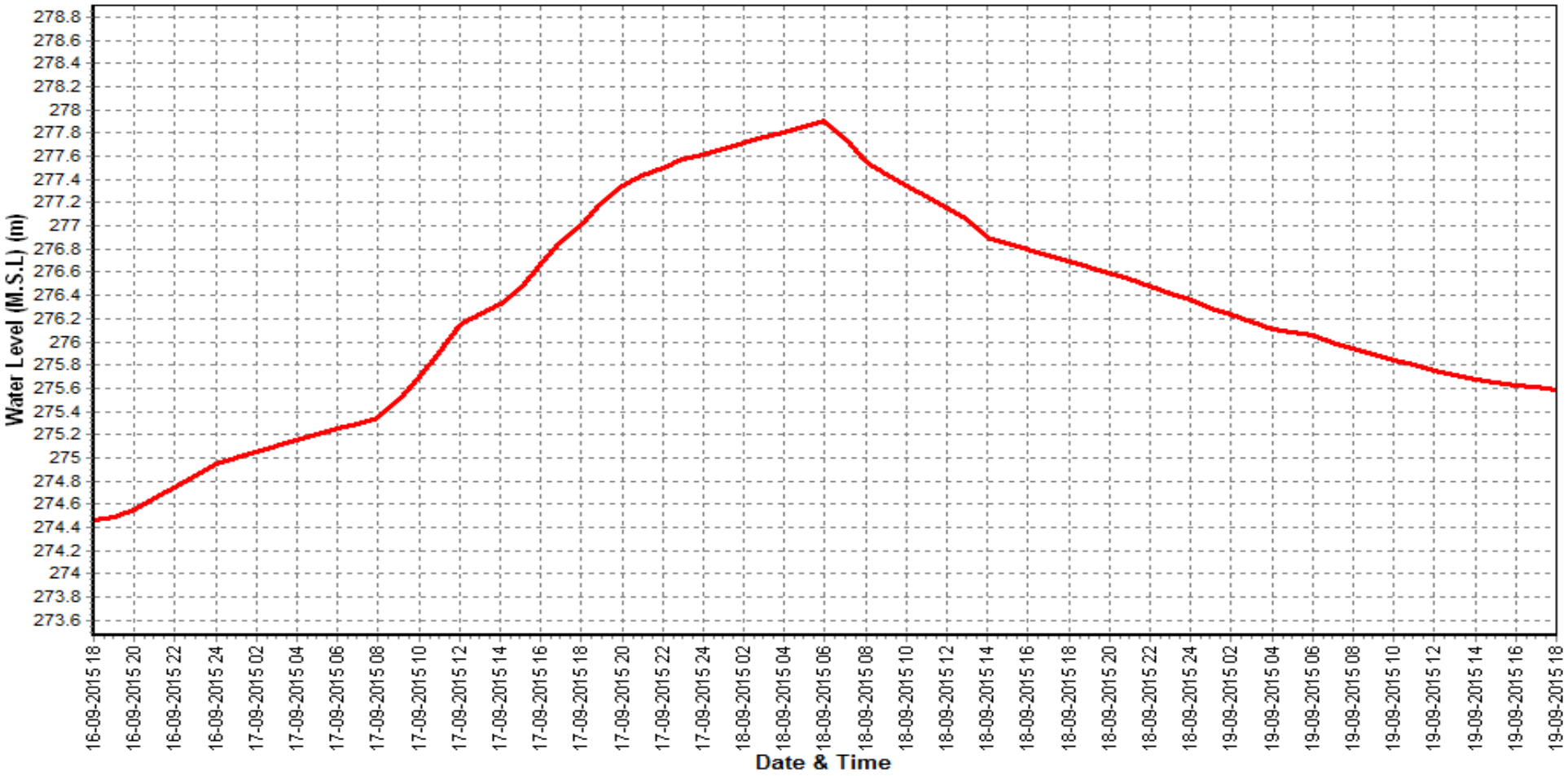
Local River : Bagh **Sub-Division : Upper Wainganga SD, Nagpur**



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

Station Name : RAJEGAON (AGH4MC3) **Division : Wainganga Div., Nagpur**

Local River : Bagh **Sub-Division : Upper Wainganga SD, Nagpur**

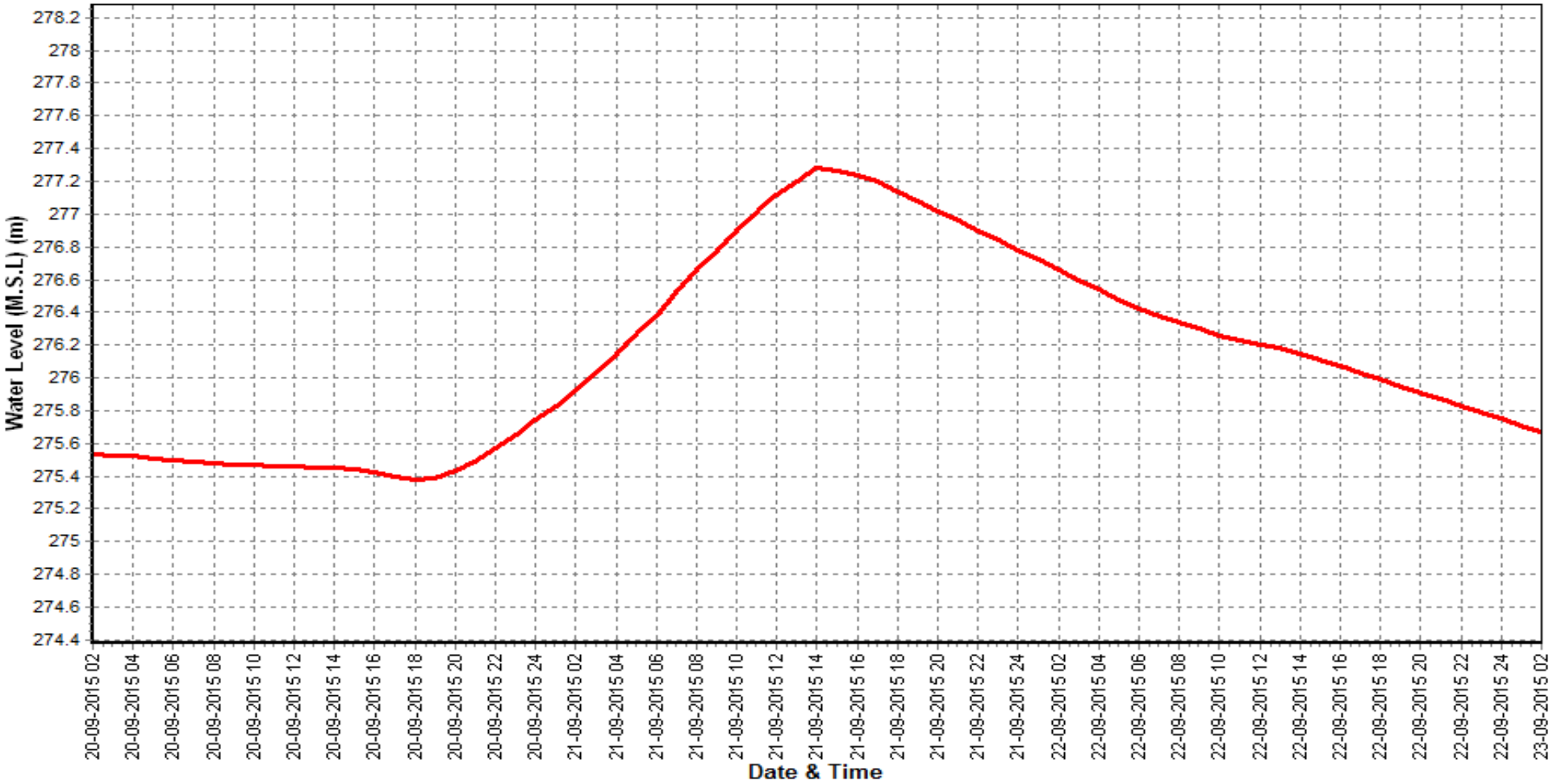


Time Span: 72 Hrs

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

Station Name : RAJEGAON (AGH4MC3) **Division : Wainganga Div., Nagpur**

Local River : Bagh **Sub-Division : Upper Wainganga SD, Nagpur**

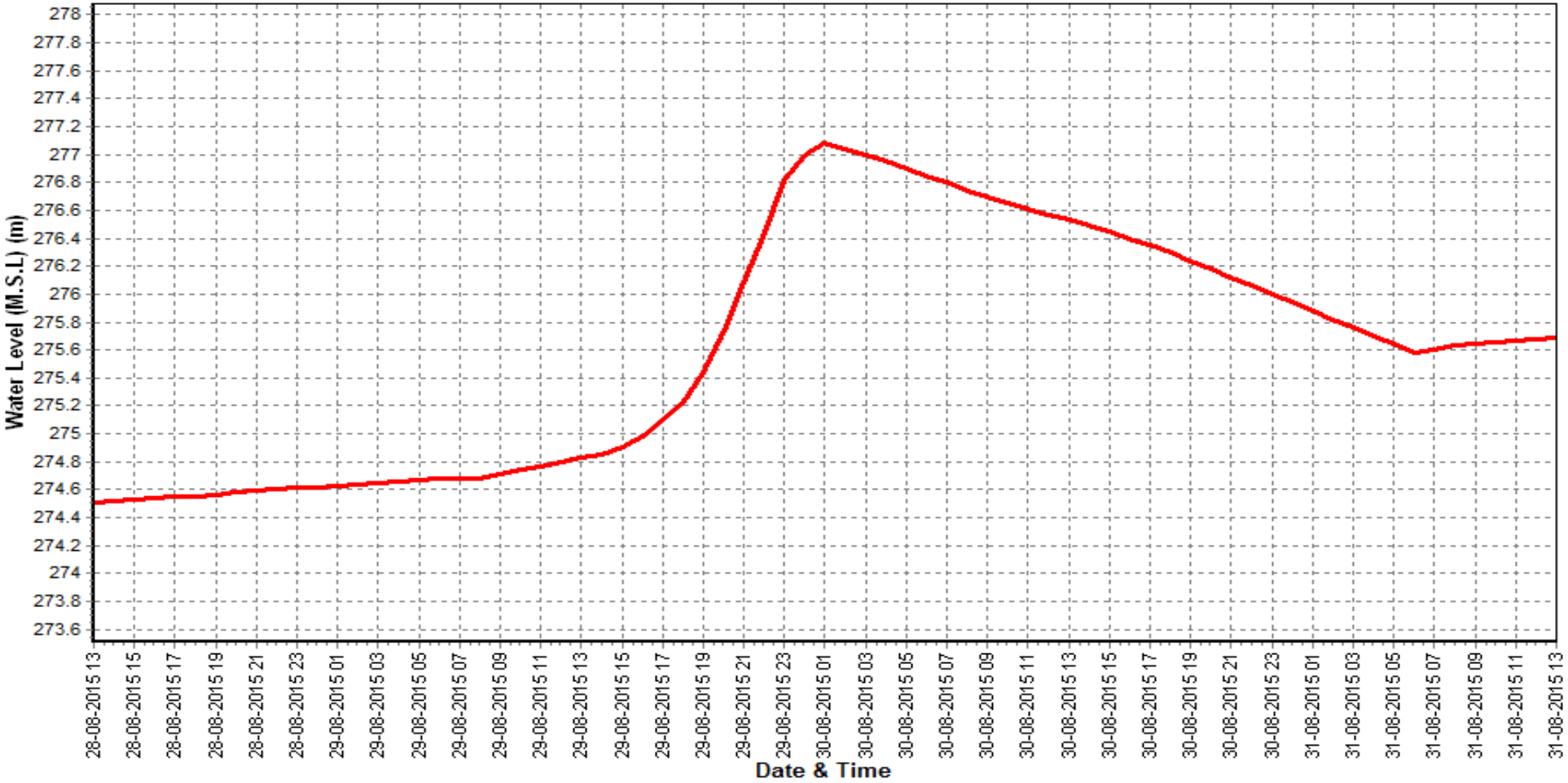


Time Span: 72 Hrs

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

Station Name : RAJEGAON (AGH4MC3) **Division : Wainganga Div., Nagpur**

Local River : Bagh **Sub-Division : Upper Wainganga SD, Nagpur**



Time Span: 72 Hrs

HISTORY SHEET

Water Year : 2015-2016

Site	**: KUMHARI**		**Code**	**: AGH40R6**	
State	: Madhya Pradesh		District	Balaghat	
Basin	: Godavari		Independent River	: Godavari	
Tributary	: Pranhita		Sub Tributary	: Wainganga	
Sub-Sub Tributary	: -		Local River	: Wainganga	
Division	: Wainganga Div., Nagpur		Sub-Division	: Upper Wainganga SD, Nagpur	
Drainage Area	: 8070 Sq. Km.		Bank	: Left	
Latitude	: 21°53'03"		Longitude	: 80°10'36"	
Zero of Gauge (m)	: 289 (m.s.l)		01.12.1986		
	Opening Date		Closing Date		
Gauge	: 01.12.1986		**HFL During 2015-16**	**: 296.960**	
			Corres. Discharge	**: 4419.911 Cumecs(Estimated)**	
Discharge	: 01.12.1986		**Date & Time of Occurance**	**: 04.08.2015 : 15.00 hrs.**	
Sediment	: 01.09.2014				
Water Quality	: 01.02.2012				

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	17.80	293.075	19.02.1987	0.000		08.10.1986
1987-1988	372.0	294.230	14.07.1987	0.000	291.325	18.06.1987
1988-1989	1784	296.830	28.07.1988	0.420	291.535	25.05.1989
1989-1990	897.5	294.723	26.08.1989	0.529	291.520	10.06.1989
1990-1991	2651	297.900	16.07.1990	0.700	291.550	06.06.1990
1991-1992	3289	299.175	24.08.1991	0.320	291.550	25.05.1992
1992-1993	2798	300.125	16.08.1992	0.190	291.680	20.05.1993
1993-1994	1414	295.105	16.07.1993	0.240	291.660	15.06.1993
1994-1995	8158	304.030	22.07.1994	0.400	291.470	04.06.1994
1995-1996	1748	296.550	20.07.1995	0.500	291.400	28.05.1996
1996-1997	1023	294.840	17.08.1996	0.280	291.320	28.04.1997
1997-1998	4380	300.120	25.07.1997	0.726	291.350	16.06.1997
1998-1999	2823	298.195	14.09.1998	0.990	291.440	27.04.1999
1999-2000	7269	303.920	17.09.1999	0.470	291.680	06.04.2000
2000-2001	2498	297.320	28.07.2000	0.263	291.390	10.05.2001
2001-2002	3434	298.670	14.08.2001	0.658	291.380	04.06.2001
2002-2003	16747	304.335	18.08.2002	0.562	291.210	23.05.2003
2003-2004	3410	298.250	15.09.2003	0.006	290.230	01.06.2003
2004-2005	1165	294.085	23.08.2004	0.439	290.560	23.05.2005
2005-2006	4645	299.600	16.09.2005	0.336	290.530	19.06.2005
2006-2007	8767	302.620	14.08.2006	1.490	290.650	29.06.2006
2007-2008	1348	294.550	10.09.2007	0.000	290.860	26.07.2007

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	1431	294.405	01.08.2008	0.417	290.270	12.05.2009
2009-2010	3331	298.150	22.07.2009	0.461	290.260	01.06.2009
2010-2011	2740	296.700	08.09.2010	0.584	290.370	06.06.2010
2011-2012	2654	296.100	07.09.2011	0.750	290.640	28.05.2012
2012-2013	3096	296.450	31.07.2012	0.649	290.640	17.06.2012
2013-2014	10236	300.200	26.07.2013	0.640	290.550	02.06.2013
2014-2015	1969	295.500	23.07.2014	0.409	290.500	12.07.2014

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

Stage-Discharge Data for the period 2015 - 2016

Station Name : KUMHARI (AGH40R6) **Division : Wainganga Div., Nagpur**

Local River : Wainganga **Sub-Division : Upper Wainganga SD, Nagpur**

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	290.470	1.076	290.600	8.967	290.580	7.360	291.765	229.2	290.590	10.96	290.480	7.674 *
2	290.470	1.064	290.600	9.586	290.560	5.957 *	291.935	257.6	290.590	13.19 *	290.450	5.629
3	290.470	1.095	290.560	5.243 #	290.560	5.957 #	291.645	215.0	290.590	10.03	290.450	5.624
4	290.470	1.018	290.600	9.002	292.600	460.4	291.245	93.40	290.640	16.31 *	290.440	5.784
5	290.470	1.327	290.580	6.569 *	294.060	1091	291.040	63.00	290.590	10.53	290.430	5.048
6	290.470	1.038	290.610	9.357	292.185	360.3	290.900	35.48 *	290.580	11.97	290.430	5.839
7	290.470	1.076 *	290.590	7.996	291.800	206.7	290.820	27.53	290.580	11.58	290.420	5.313
8	290.470	1.157	290.570	6.607	291.580	131.7	290.830	27.42 #	290.540	10.45	290.430	5.731 *
9	290.480	1.314	290.590	7.858	291.960	280.1 *	290.760	20.39 #	290.560	13.64	290.440	5.790
10	290.470	1.138	290.660	12.72	291.305	121.3	290.730	19.62	290.530	9.963 #	290.440	5.692
11	290.470	1.126	290.880	43.01 #	291.515	184.9	290.690	14.38 #	290.520	9.476 *	290.440	6.093 *
12	290.470	1.030	291.540	155.9 *	291.580	192.1	290.670	12.85 #	290.510	9.005 #	290.470	7.530
13	290.470	1.074	291.235	88.33	292.000	262.0	290.650	11.40 *	290.510	9.005 #	290.470	6.656
14	290.480	1.390 *	291.180	77.85 #	293.280	906.1	290.690	17.35	290.510	9.005 #	290.440	6.148
15	290.550	4.632 #	290.835	28.77	292.430	460.9 *	290.800	25.47	290.490	8.102 #	290.440	6.093 *
16	290.510	2.395	290.685	11.29	292.360	431.2 *	290.895	35.77	290.490	8.102 #	290.440	6.296
17	290.510	2.274	290.620	7.052	292.950	671.2	290.960	43.20 *	290.480	9.060	290.430	6.559
18	290.510	2.235	290.610	8.770 *	291.820	217.2	291.215	102.4	290.480	7.674 *	290.460	7.404
19	290.510	1.985	290.640	10.72 *	291.665	205.4	291.240	99.20	290.470	6.049	290.500	8.830
20	290.510	1.953	290.690	11.75	291.620	215.3	290.950	41.87 *	290.480	8.900	290.510	9.602
21	290.510	2.558 *	290.720	14.19	291.510	155.4	291.105	73.59	290.470	8.432	290.530	11.58
22	290.600	8.064	290.700	13.13	291.310	103.0 #	291.440	131.6 #	290.470	7.258 *	290.540	10.46 *
23	290.760	18.90	291.000	48.27	291.160	74.29 *	291.310	117.8	290.460	7.173	290.550	12.84
24	291.070	81.47 #	292.290	402.5 #	291.015	51.16	291.015	45.23	290.460	6.855 *	290.560	12.58
25	291.090	86.19 #	291.490	156.2	290.910	40.06	290.830	31.93 *	290.460	6.855 *	290.560	11.51 *
26	290.745	20.18	291.320	105.1 *	290.870	27.25	290.740	21.13	290.450	6.819	290.550	12.76
27	290.580	7.862	291.300	93.91	290.820	21.08	290.690	19.82 *	290.440	5.923	290.600	16.07
28	290.590	7.286 *	291.050	56.17 #	290.800	24.28 #	290.650	18.13	290.440	5.786	290.600	15.44
29	290.500	2.131 #	290.730	20.73	290.785	17.99	290.620	17.36	290.430	5.731 #	290.610	14.39 *
30	290.590	8.569	290.630	11.90	291.480	141.1 *	290.600	11.30	290.515	7.246	290.610	16.40
31			290.600	8.737	291.205	84.67			290.510	9.279		
Daily Mean												
Ten-Dai	290.471	1.130	290.596	8.391	291.719	267.1	291.167	98.86	290.579	11.86	290.441	5.812
Ten-Da	290.499	2.009	290.892	44.34	292.122	374.6	290.876	40.39	290.494	8.438	290.460	7.121
Ten-Da	290.703	24.32	291.075	84.62	291.079	67.30	290.900	48.79	290.464	7.033	290.571	13.40
Monthly												
Min.	290.470	1.018	290.560	5.243	290.560	5.957	290.600	11.30	290.430	5.731	290.420	5.048
Max.	291.090	86.19	292.290	402.5	294.060	1091	291.935	257.6	290.640	16.31	290.610	16.40
Mean	290.558	9.154	290.861	47.04	291.622	230.9	290.981	62.68	290.511	9.044	290.491	8.779

Annual Runoff in MCM = 1085 Annual Runoff in mm = 134

Peak Observed Discharge = 1091 cumecs on 05-08-2015 Corres. Water Level :294.06 m

Lowest Observed Discharge = 0.473 cumecs on 27-05-2016 Corres. Water Level :290.28 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 : KUMHARI (AGH40R6) **Division : Wainganga Div., Nagpur**

Local River : Wainganga **Sub-Division : Upper Wainganga SD, Nagpur**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	290.620	16.34	290.620	15.37	290.540	9.673	290.400	3.094	290.320	1.041	290.290	0.539 *
2	290.600	15.40	290.630	15.50	290.540	9.390	290.380	2.565	290.320	1.035	290.290	0.537
3	290.620	16.12	290.650	17.02 *	290.550	10.89	290.400	2.752	290.320	1.026 *	290.290	0.566
4	290.620	16.14	290.670	18.23	290.550	11.13	290.430	3.423	290.310	0.983	290.290	0.525
5	290.620	16.18	290.680	18.54	290.560	11.69	290.430	3.449	290.310	0.910	290.290	0.589
6	290.620	14.75 *	290.680	19.24	290.560	10.65	290.430	4.179 *	290.310	0.932	290.290	0.581
7	290.570	11.78	290.680	18.95	290.570	11.33 *	290.430	3.280	290.310	0.858	290.290	0.540
8	290.570	11.44	290.690	19.90	290.500	7.213	290.420	3.133	290.300	0.683 *	290.290	0.539 *
9	290.590	13.89	290.680	18.64	290.460	5.833	290.410	2.891	290.310	0.834	290.290	0.504
10	290.600	14.49	290.680	19.45 *	290.500	8.331	290.400	2.705	290.310	0.846 *	290.290	0.490
11	290.560	11.84	290.680	18.31	290.500	8.788	290.380	2.061	290.310	0.702	290.290	0.542
12	290.540	10.43	290.680	18.48	290.570	11.39	290.390	2.408	290.310	0.782	290.290	0.559
13	290.540	9.502 *	290.680	19.78	290.570	10.60	290.390	2.784 *	290.300	0.727	290.290	0.534
14	290.540	10.31	290.680	19.62	290.560	10.70 *	290.380	1.972	290.300	0.683 *	290.290	0.537
15	290.540	11.57	290.670	18.47	290.550	9.937	290.360	1.567	290.360	1.567	290.290	0.539 *
16	290.550	10.09 #	290.660	17.86	290.540	7.972	290.350	1.488	290.300	0.656	290.290	0.532
17	290.560	11.76	290.680	19.45 *	290.510	6.891	290.340	1.285	290.300	0.683 *	290.290	0.526
18	290.580	13.48	290.720	21.92	290.490	5.995	290.340	1.265	290.300	0.661	290.290	0.537
19	290.580	13.24	290.870	39.14	290.470	4.532	290.340	1.313	290.300	0.683 *	290.290	0.532
20	290.590	12.64 *	290.770	29.72	290.460	4.406	290.340	1.439 *	290.300	0.701	290.290	0.516
21	290.590	13.27	290.640	19.05	290.440	4.573 *	290.340	1.303	290.290	0.646	290.290	0.539 *
22	290.610	15.35	290.620	14.90	290.430	3.727	290.330	1.158	290.290	0.642	290.290	0.539 *
23	290.710	20.69	290.520	8.371 #	290.430	3.637	290.330	1.037	290.290	0.598	290.290	0.535
24	290.710	22.05 *	290.480	6.328 *	290.420	3.449	290.330	1.224 *	290.290	0.539 *	290.290	0.536
25	290.680	19.45 *	290.450	4.985 #	290.420	3.463	290.330	1.224 *	290.290	0.628	290.280	0.475
26	290.610	15.78	290.420	3.804 *	290.420	3.535	290.320	1.037	290.290	0.653	290.280	0.490
27	290.590	12.64 *	290.420	3.804 #	290.400	3.591	290.310	0.846 *	290.290	0.608	290.280	0.473
28	290.590	13.38	290.410	3.445 #	290.450	4.985 *	290.330	1.243	290.290	0.600	290.280	0.488
29	290.590	13.08	290.430	4.179 #	290.410	3.120	290.330	1.134	290.290	0.571	290.280	0.411 *
30	290.600	15.42	290.510	8.061			290.330	1.065	290.290	0.626	290.290	0.519
31	290.600	15.37	290.530	8.927 *			290.320	1.036			290.290	0.511
Daily M												
Ten-Dai	290.603	14.65	290.666	18.08	290.533	9.613	290.413	3.147	290.312	0.915	290.290	0.541
Ten-Da	290.558	11.49	290.709	22.27	290.522	8.122	290.361	1.758	290.308	0.785	290.290	0.535
Ten-Da	290.625	16.04	290.494	7.805	290.424	3.787	290.327	1.119	290.290	0.611	290.285	0.501
Monthl												
Min.	290.540	9.502	290.410	3.445	290.400	3.120	290.310	0.846	290.290	0.539	290.280	0.411
Max.	290.710	22.05	290.870	39.14	290.570	11.69	290.430	4.179	290.360	1.567	290.290	0.589
Mean	290.596	14.13	290.619	15.79	290.496	7.29	290.366	1.979	290.303	0.77	290.288	0.525

Peak Computed Discharge = 460.9 cumecs on 15-08-2015 Corres. Water Level :292.43 m

Lowest Computed Discharge = 0.411 cumecs on 29-05-2016 Corres. Water Level :290.28 m

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

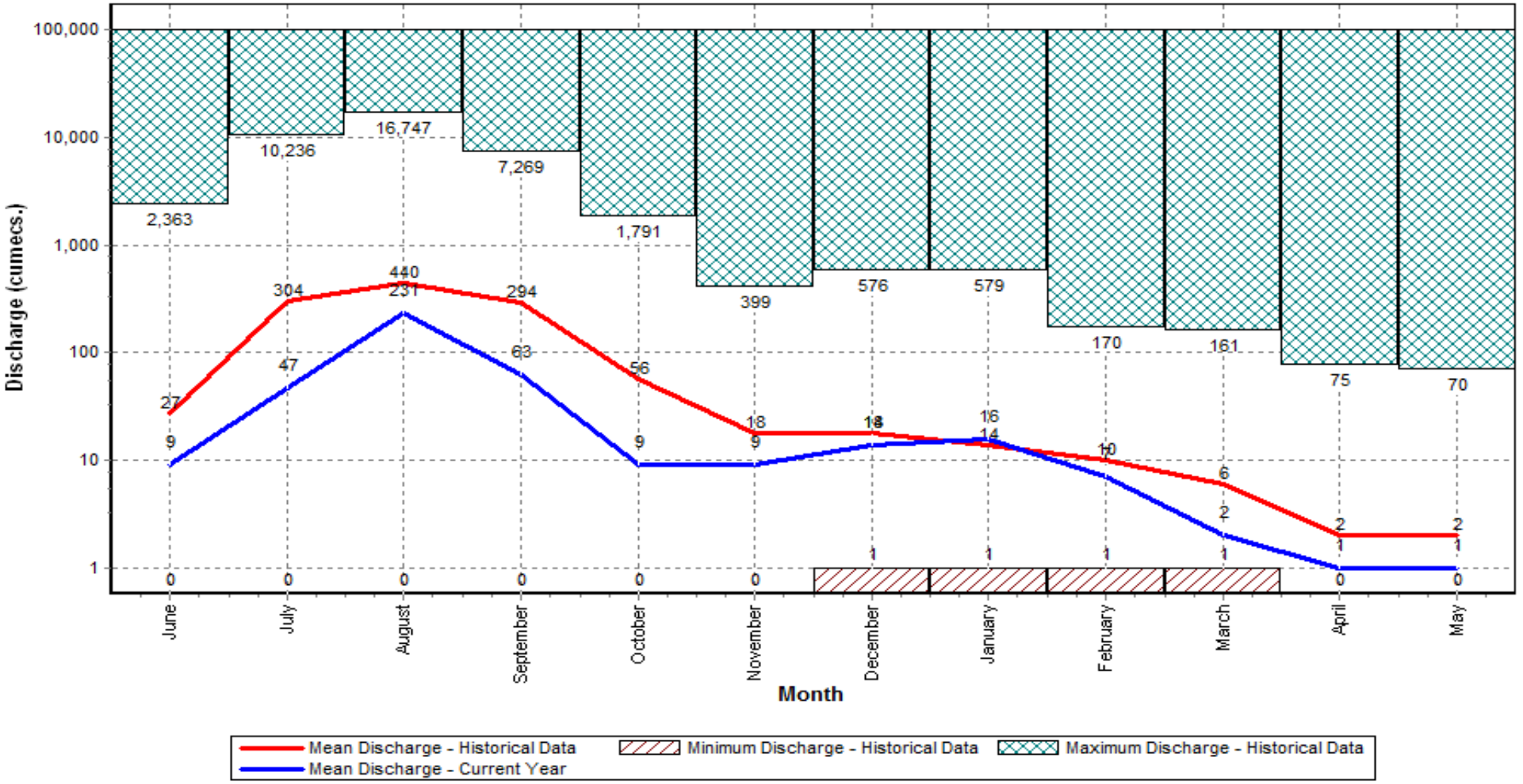
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016

Station Name : KUMHARI (AGH40R6) | **Data considered : 1986-2016** | **Division : Wainganga Div., Nagpur**

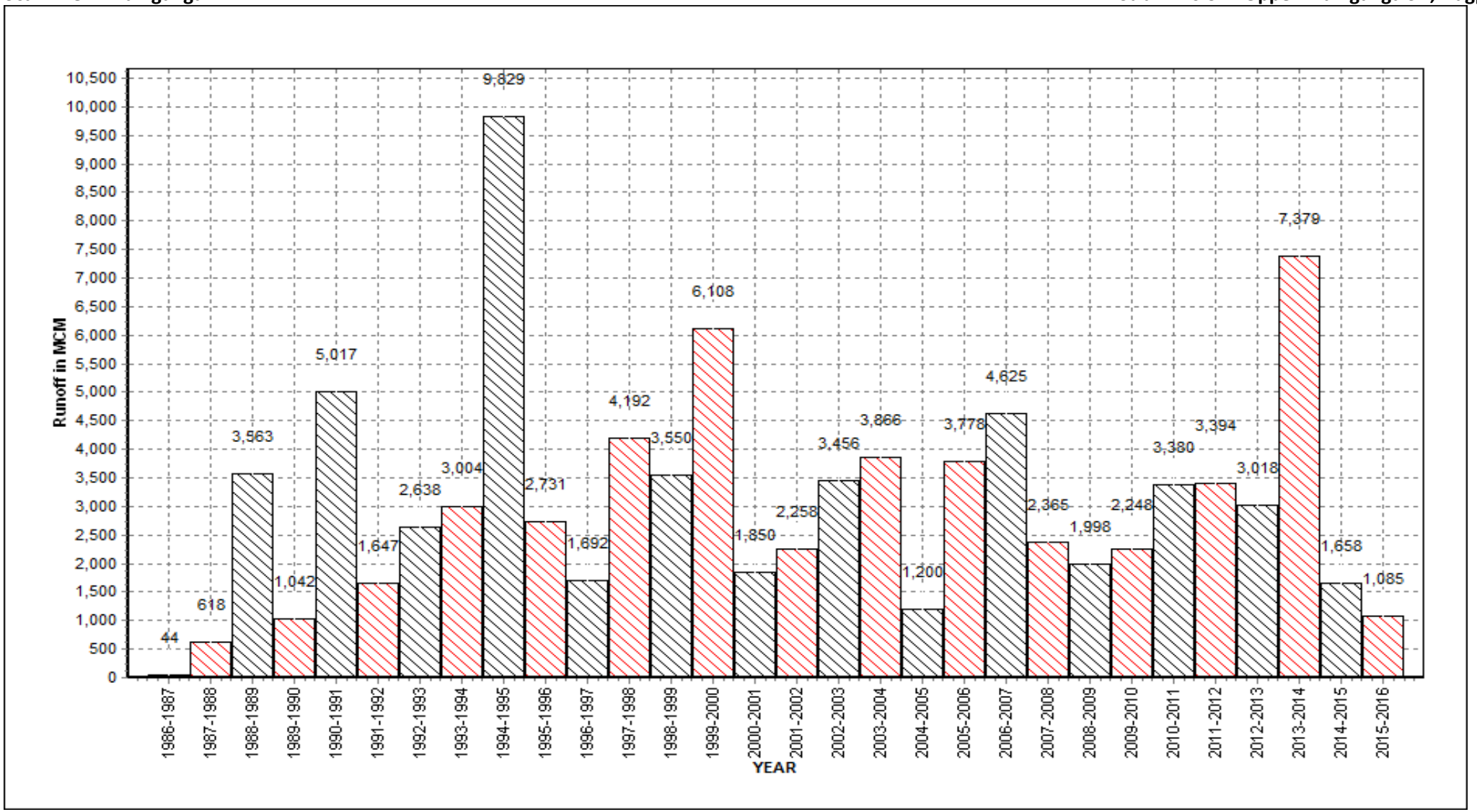
Local River : Wainganga | **Sub-Division : Upper Wainganga SD, Nagpur**



Annual Runoff Values for the period: 1986 - 2016

Station Name : KUMHARI (AGH40R6) **Division : Wainganga Div., Nagpur**

Local River : Wainganga **Sub-Division : Upper Wainganga SD, Nagpur**



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

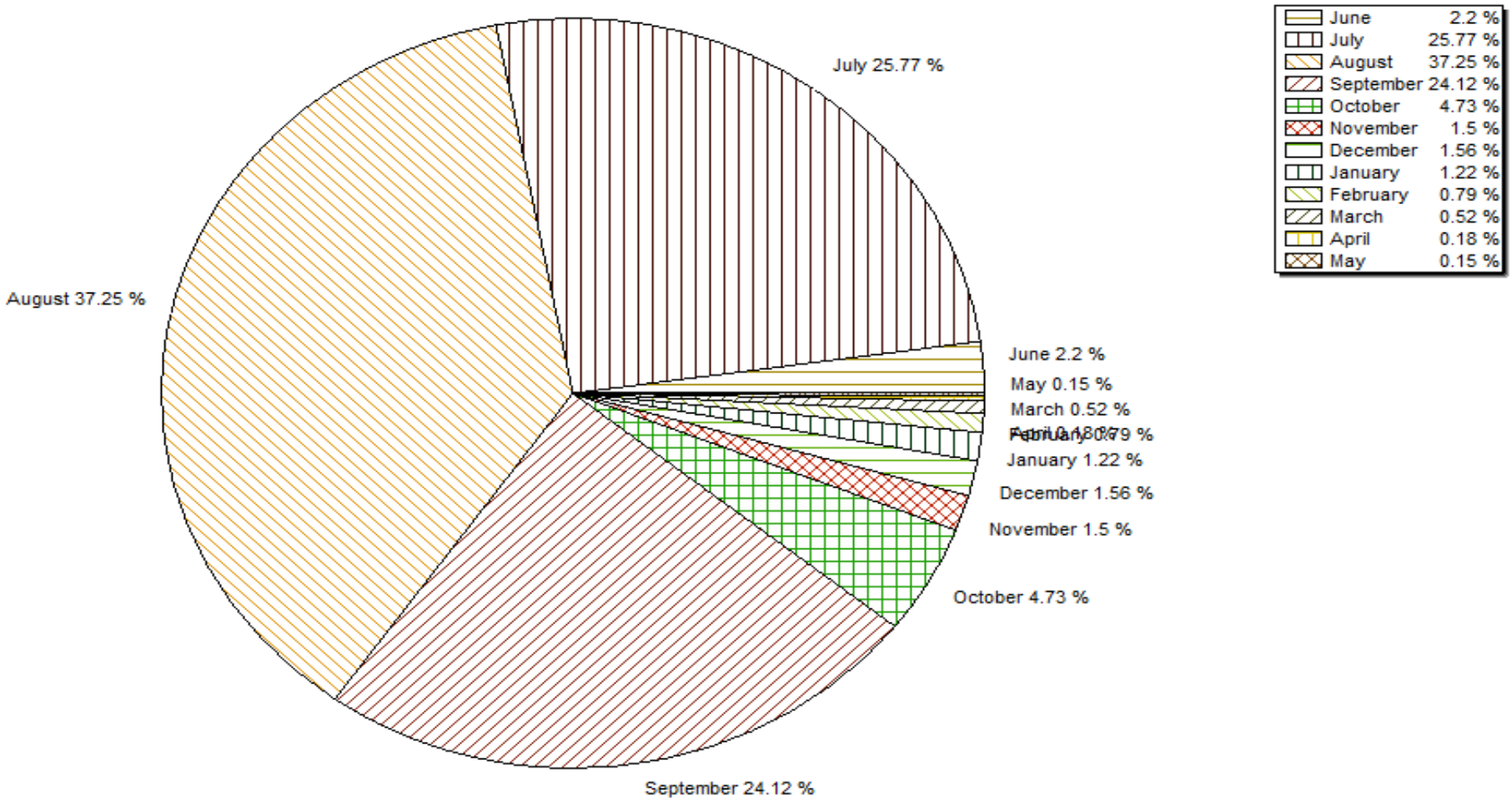
Monthly Average Runoff based on period : 1986-2015

Station Name : KUMHARI (AGH40R6)

Local River : Wainganga

Division : Wainganga Div., Nagpur

Sub-Division : Upper Wainganga SD, Nagpur



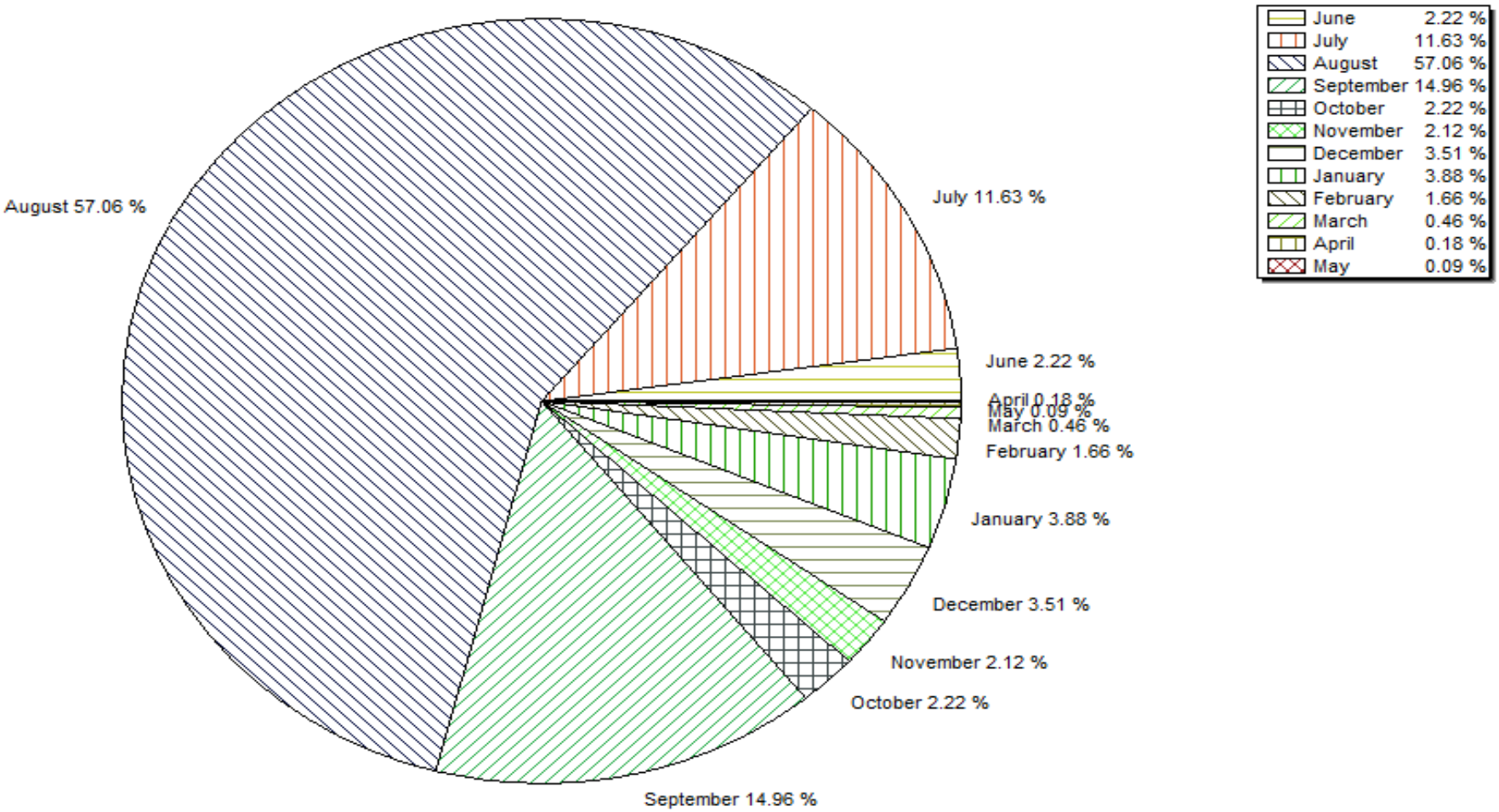
Monthly Runoff for the Year : 2015-2016

Station Name : KUMHARI (AGH40R6)

Local River : Wainganga

Division : Wainganga Div., Nagpur

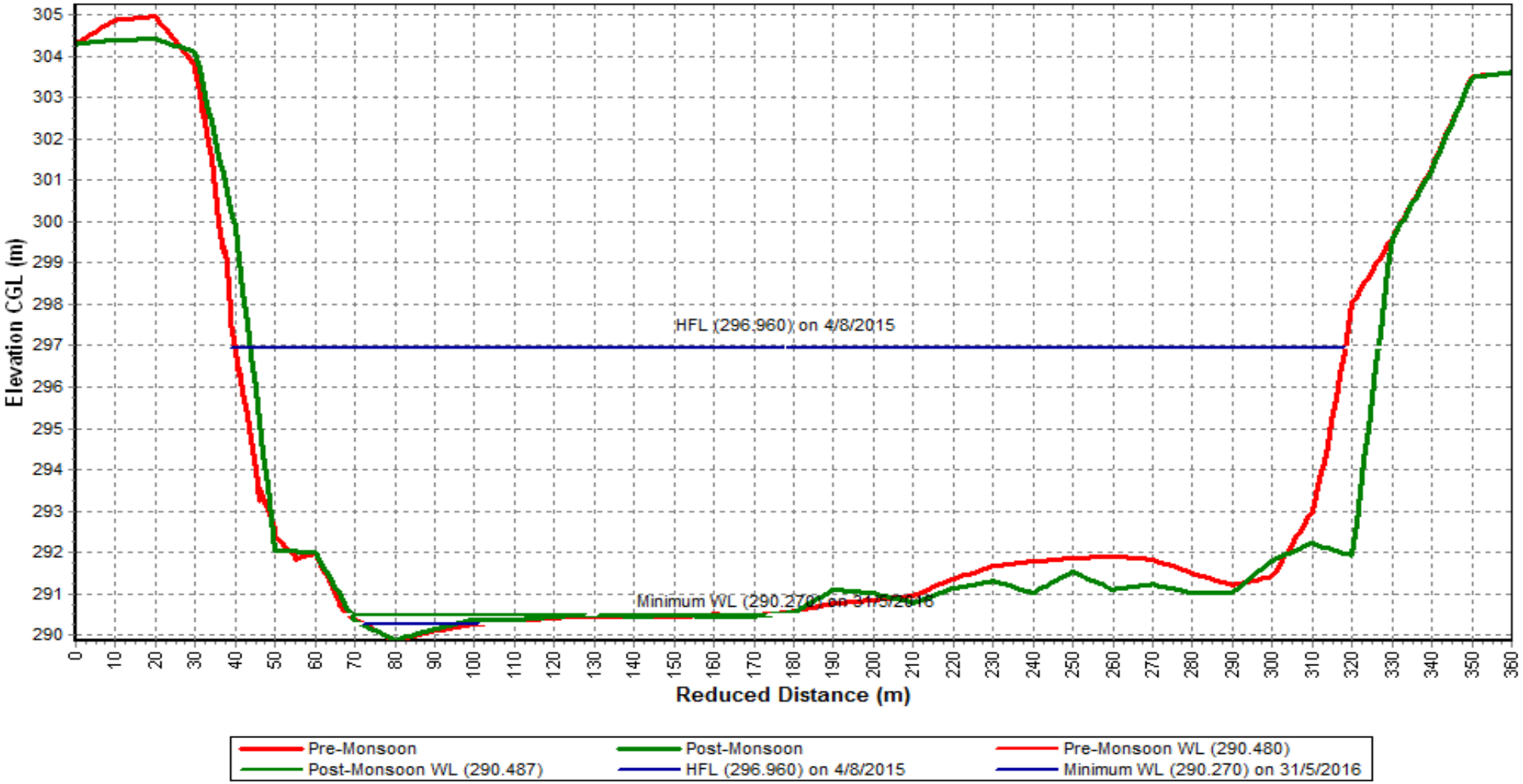
Sub-Division : Upper Wainganga SD, Nagpur



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

Station Name : KUMHARI (AGH40R6) **Division : Wainganga Div., Nagpur**

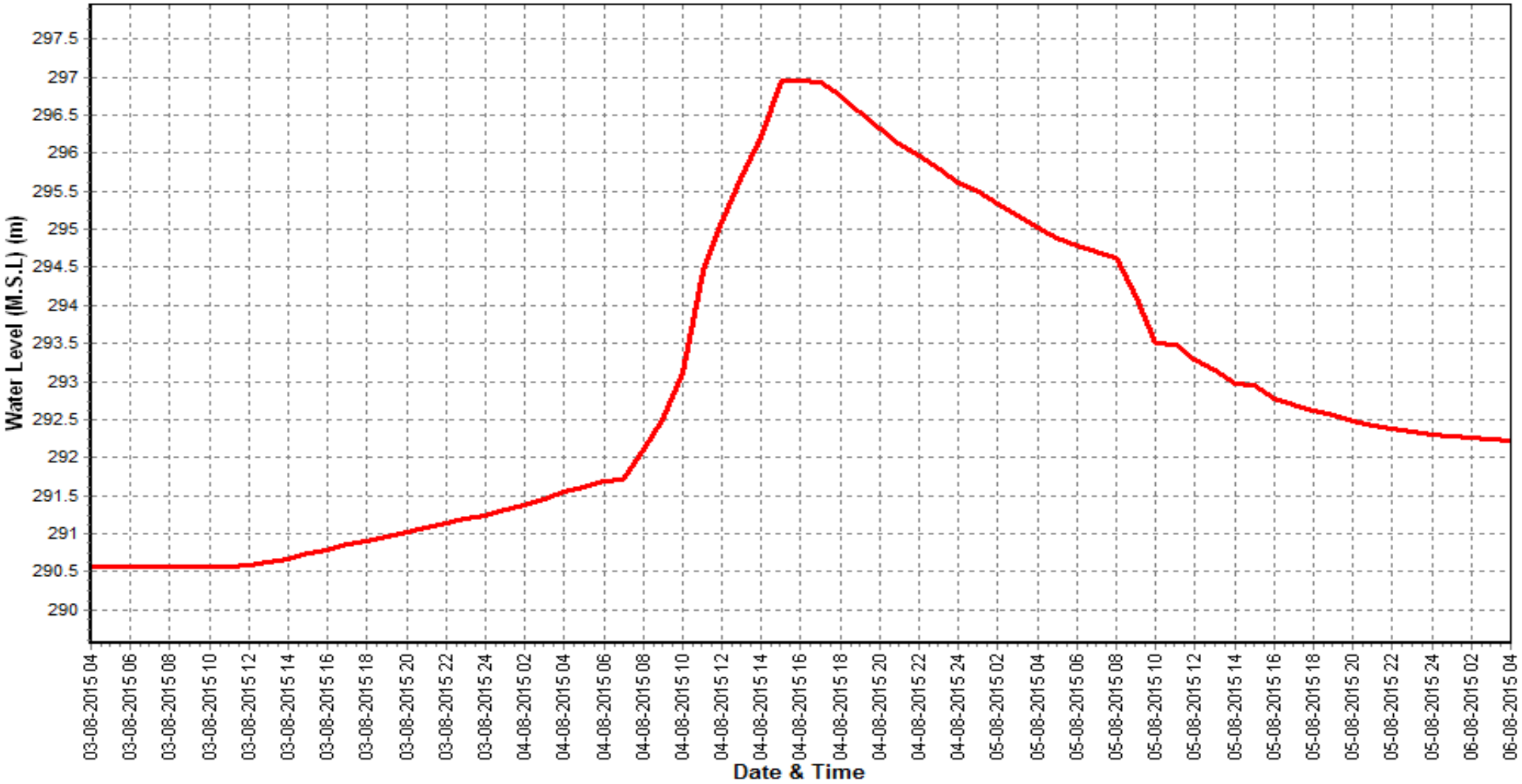
Local River : Wainganga **Sub-Division : Upper Wainganga SD, Nagpur**



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

Station Name : KUMHARI (AGH40R6) **Division : Wainganga Div., Nagpur**

Local River : Wainganga **Sub-Division : Upper Wainganga SD, Nagpur**

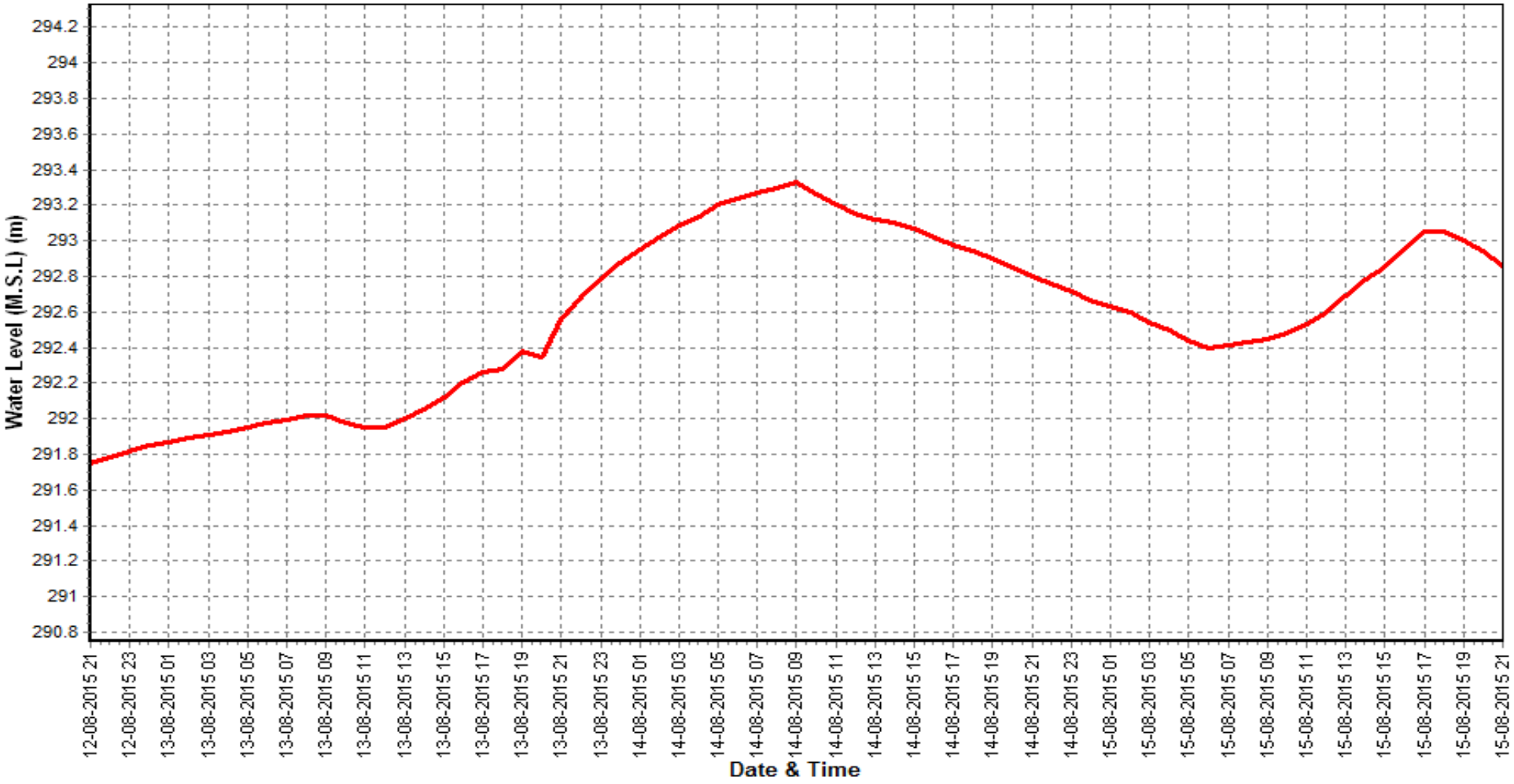


Time Span: 72 Hrs

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

Station Name : KUMHARI (AGH40R6) **Division : Wainganga Div., Nagpur**

Local River : Wainganga **Sub-Division : Upper Wainganga SD, Nagpur**

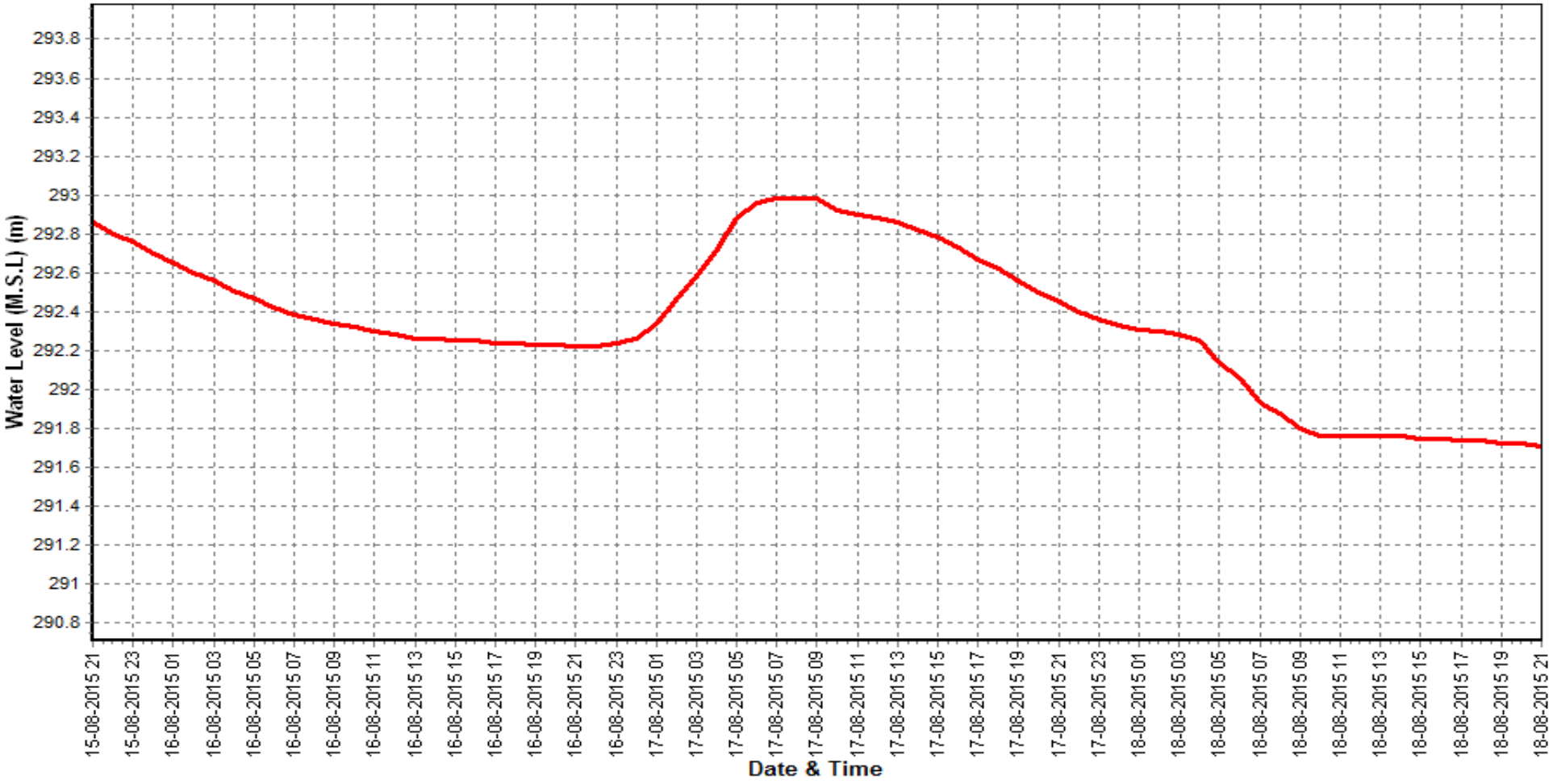


Time Span: 72 Hrs

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

Station Name : KUMHARI (AGH40R6) **Division : Wainganga Div., Nagpur**

Local River : Wainganga **Sub-Division : Upper Wainganga SD, Nagpur**



Time Span: 72 Hrs

HISTORY SHEET

			Water Year	:	**2015-2016**
Site	:	**KEOLARI**	**Code**	:	**AGH40V3**
State	:	Madhya Pradesh	District		Seoni
Basin	:	Godavari	Independent River	:	Godavari
Tributary	:	Pranhita	Sub Tributary	:	Wainganga
Sub-Sub Tributary	:	-	Local River	:	Wainganga
Division	:	Wainganga Div., Nagpur	Sub-Division	:	Upper Wainganga SD, Nagpur
Drainage Area	:	2970 Sq. Km.	Bank	:	Right
Latitude	:	22°22'50"	Longitude	:	79°54'00"
Zero of Gauge (m)	:	425 (m.s.l) 424.52 (m.s.l)	27.11.1986 01.06.2005	-	31.05.2005
		Opening Date	Closing Date		
Gauge	:	27.11.1986	**HFL During 2015-16**	:	**430.170**
			Corres. Discharge	:	**626.6096 Cumecs(Estimated)**
Discharge	:	29.06.1987	**Date & Time of**	:	**04.08.2015**
			Occurance	:	**07.00 hrs.**
Sediment	:				
Water Quality	:	01.06.2014			

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

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1987-1988	100.4	428.260	30.08.1987	0.000		12.04.1988
1988-1989	483.6	430.030	14.07.1988	0.000		03.05.1989
1989-1990	525.2	430.122	26.08.1989	0.000		11.04.1990
1990-1991	1065	432.335	18.08.1990	0.000		27.05.1991
1991-1992	307.6	429.400	24.08.1991	0.000		13.05.1992
1992-1993	989.3	431.645	17.08.1992	0.000	426.480	13.02.1993
1993-1994	860.0	431.825	16.07.1993	0.000		17.05.1994
1994-1995	5500	440.500	21.07.1994	0.000	427.065	30.04.1995
1995-1996	1200	432.705	20.07.1995	0.000	426.560	09.05.1996
1996-1997	694.0	431.020	06.09.1996	0.000	426.605	10.05.1997
1997-1998	1308	433.255	25.07.1997	0.000	426.460	16.06.1997
1998-1999	1779	433.910	14.09.1998	1.600	426.700	28.05.1999
1999-2000	3554	436.985	15.09.1999	0.690	426.640	20.05.2000
2000-2001	643.5	431.095	28.07.2000	0.000	426.990	25.04.2001
2001-2002	247.0	429.220	15.08.2001	0.000	426.530	02.06.2001
2002-2003	3008	435.925	18.08.2002	0.000	426.430	08.06.2002
2003-2004	2363	435.650	14.09.2003	0.114	426.515	16.06.2003
2004-2005	166.6	428.860	22.08.2004	0.000	426.570	01.06.2004
2005-2006	2802	435.220	15.09.2005	0.000	425.940	16.06.2005
2006-2007	4058	437.920	14.08.2006	0.001	426.130	30.05.2007
2007-2008	862.8	431.435	08.09.2007	0.167	426.300	03.05.2008

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**
2008-2009	295.6	429.120	10.07.2008	0.017	426.020	02.03.2009
2009-2010	2997	436.920	22.07.2009	0.016	426.270	30.05.2010
2010-2011	1115	432.160	05.09.2010	0.000	426.000	15.06.2010
2011-2012	1234	432.430	16.09.2011	0.077	426.220	31.05.2012
2012-2013	394.8	429.220	06.09.2012	0.000	426.360	30.05.2013
2013-2014	4518	436.170	23.08.2013	0.000	426.370	23.05.2014
2014-2015	642.1	430.170	10.09.2014	0.000	426.410	22.03.2015

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

Stage-Discharge Data for the period 2015 - 2016

Station Name : KEOLARI (AGH40V3) **Division : Wainganga Div., Nagpur**

Local River : Wainganga **Sub-Division : Upper Wainganga SD, Nagpur**

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	426.430	0.000	426.300	1.830	426.625	18.32	427.550	85.56 #	427.270	48.90	426.510	5.461 *
2	426.430	0.000	426.290	1.691	426.580	19.70 *	426.805	17.50	427.270	49.45 *	426.460	4.006
3	426.400	0.000	426.600	8.236	426.555	16.40	426.665	13.08	427.270	48.13	426.460	3.975
4	426.340	0.000	426.520	5.759 #	430.170	626.5	426.610	10.78	427.290	51.37 *	426.450	3.885
5	426.270	0.000	426.360	2.381 *	427.680	108.4	426.610	11.32	427.310	50.61	426.450	3.745
6	426.250	0.000	426.350	1.866	427.520	93.21	426.550	9.064 *	427.300	50.14	426.440	3.720
7	426.250	0.000	426.340	1.581	427.360	80.82	426.500	7.984	427.300	49.13	426.440	3.719
8	426.270	0.000	426.320	1.526	427.060	52.78	426.480	5.636	427.285	48.84	426.420	3.451 *
9	426.270	0.000	426.310	1.503	427.120	56.31 *	427.220	53.30	427.275	50.73	426.410	3.531
10	426.260	0.000	426.700	27.44	426.970	46.79	427.105	44.31	427.190	50.87	426.390	3.399
11	426.250	0.000	427.700	110.4	427.370	81.56	427.080	43.52	427.200	43.05 *	426.390	2.900 *
12	426.240	0.000	427.380	80.75 *	428.470	201.0	427.120	44.18	427.270	51.86	426.390	3.380
13	426.240	0.000	427.150	64.70	427.300	59.51 #	427.170	47.76 *	427.245	47.84	426.380	3.293
14	426.260	0.000	426.880	36.77	428.320	193.7 #	427.360	78.88	427.260	53.35	426.380	3.263
15	426.270	0.000	426.770	30.93	427.680	100.9 *	427.220	61.89	427.250	50.72	426.430	3.648 *
16	426.620	0.000	426.710	27.93	427.500	79.99 *	427.075	43.52	427.250	50.36	426.510	4.628
17	426.430	0.000	426.630	22.29 #	427.110	34.63	427.060	38.78 *	426.830	13.59	426.540	5.297
18	426.610	0.000	426.600	20.72 *	427.040	29.23	427.240	62.39	426.530	5.985 *	426.560	5.468
19	426.420	0.000	426.930	41.26 *	427.145	41.73	426.855	15.64	426.475	4.356	426.540	5.241
20	426.360	0.000	426.700	27.44	426.890	26.68 #	426.760	14.20 *	426.440	4.082	426.540	5.002
21	426.770	14.78 *	426.720	28.42	426.850	22.15	426.580	8.714	426.440	4.044	426.530	4.880
22	426.660	8.800	426.980	42.44	426.750	18.65	426.780	18.02	426.430	3.648 *	426.530	5.985 *
23	427.700	106.3	427.020	50.08	426.690	15.24 *	426.590	8.921	426.420	3.900	426.530	4.956
24	426.750	13.88 #	427.570	97.31	426.640	14.56	426.530	6.771	426.420	3.451 *	426.530	5.376
25	426.530	6.029 #	427.120	56.94	426.590	11.02	426.510	5.461 *	426.420	3.451 *	426.550	6.537 *
26	426.445	4.635	427.470	90.26 *	426.550	9.583	426.500	6.012	426.410	3.834	426.560	5.517
27	426.380	2.711 #	427.080	54.15	426.520	9.025	426.490	4.967 *	426.400	3.418	426.550	5.490
28	426.340	2.076 *	426.880	36.77	427.195	48.97	427.170	46.89	426.380	3.257	426.550	5.169
29	426.320	1.908	426.780	31.44	427.135	46.76	427.205	51.45	426.370	3.204	426.540	6.257 *
30	426.300	1.890	426.720	28.42	426.910	28.00 *	427.170	48.44	426.430	3.913	426.520	5.212
31			426.690	26.95	427.050	38.01 #			426.510	4.456		
n-Daily Mean												
Ten-Daily	426.317	0.000	426.409	5.381	427.364	111.9	426.810	25.85	427.276	49.82	426.443	3.889
I Ten-Dail	426.370	0.000	426.945	46.32	427.483	84.89	427.094	45.08	426.975	32.52	426.466	4.212
I Ten-Dail	426.619	16.30	427.003	49.38	426.807	23.82	426.753	20.57	426.421	3.688	426.539	5.538
Monthly												
Min.	426.240	0.000	426.290	1.503	426.520	9.025	426.480	4.967	426.370	3.204	426.380	2.900
Max.	427.700	106.3	427.700	110.4	430.170	626.5	427.550	85.56	427.310	53.35	426.560	6.537
Mean	426.435	5.434	426.793	34.2	427.205	71.94	426.885	30.5	426.875	27.87	426.483	4.546

Annual Runoff in MCM = 530 Annual Runoff in mm = 179

Peak Observed Discharge = 626.5 cumecs on 04-08-2015 Corres. Water Level :430.17 m

Lowest Observed Discharge = 0.000 cumecs on 01-06-2015 Corres. Water Level :426.43 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 : KEOLARI (AGH40V3) **Division : Wainganga Div., Nagpur**

Local River : Wainganga **Sub-Division : Upper Wainganga SD, Nagpur**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	426.520	5.004	426.540	6.983	426.520	6.113	426.460	4.315	426.410	3.822	426.340	0.000
2	426.520	5.004	426.540	7.140	426.520	6.182	426.460	4.588	426.400	3.585	426.340	0.000
3	426.510	4.953	426.540	6.407 *	426.530	5.928	426.460	4.532	426.400	3.503 *	426.340	0.000
4	426.510	4.931	426.540	6.492	426.530	6.122	426.440	4.401	426.400	3.601	426.340	0.000
5	426.510	4.920	426.530	6.825	426.590	6.224	426.420	4.296	426.400	3.553	426.340	0.000
6	426.500	5.356 *	426.530	6.951	426.470	4.392	426.420	3.884 *	426.400	3.573	426.340	0.000
7	426.490	4.598	426.530	6.707	426.490	5.110 *	426.420	4.263	426.400	3.532	426.340	0.000
8	426.500	4.610	426.550	6.963	426.520	4.638	426.460	4.456	426.410	3.590	426.340	0.000
9	426.500	4.767	426.580	7.548	426.570	6.940	426.460	4.198	426.410	3.590	426.340	0.000
10	426.490	4.734	426.580	7.571 *	426.590	8.158	426.440	4.430	426.420	3.884 *	426.340	0.000
11	426.480	5.677	426.580	7.158	426.570	7.031	426.440	4.446	426.420	3.624	426.340	0.000
12	426.490	5.402	426.570	7.153	426.550	6.615	426.440	4.460	426.420	3.601	426.340	0.000
13	426.490	5.110 *	426.570	7.249	426.530	6.222	426.440	4.291 *	426.420	3.606	426.340	0.000
14	426.490	5.108	426.560	6.552	426.520	6.161 *	426.440	4.446	426.420	3.884 *	426.340	0.000
15	426.520	6.098	426.550	6.984	426.500	5.848	426.450	4.456	426.420	3.605	426.340	0.000
16	426.520	6.116	426.540	6.830	426.500	6.199	426.450	4.443	426.420	3.634	426.340	0.000
17	426.530	5.992	426.600	8.196 *	426.500	6.230	426.440	4.233	426.420	3.884 *	426.330	0.000
18	426.530	6.024	426.620	8.843	426.480	5.249	426.430	4.241	426.420	3.601	426.330	0.000
19	426.550	6.362	426.620	9.394	426.480	5.496	426.420	4.141	426.420	3.884 *	426.330	0.000
20	426.550	6.687 *	426.580	7.334	426.480	5.416	426.410	3.691 *	426.420	3.637	426.330	0.000
21	426.620	8.774	426.550	6.926	426.470	4.945 *	426.410	4.058	426.420	3.627	426.330	0.000
22	426.580	8.556	426.480	4.870 #	426.470	4.840	426.410	3.956	426.420	3.623	426.330	0.000
23	426.550	7.175	426.420	3.611	426.460	4.610	426.400	3.947	426.420	3.611	426.330	0.000
24	426.550	6.687 *	426.410	3.382 *	426.460	4.573	426.400	3.503 *	426.420	3.592	426.330	0.000
25	426.540	6.407 *	426.400	3.417	426.460	4.592	426.400	3.503 *	426.420	3.884 *	426.320	0.000
26	426.540	6.988	426.410	3.382 *	426.440	4.384	426.400	3.864	426.420	3.621	426.310	0.000
27	426.540	6.407 *	426.420	3.770	426.440	4.481	426.410	3.691 *	426.400	2.790	426.310	0.000
28	426.550	7.007	426.420	3.545	426.440	4.291 *	426.410	3.975	426.370	0.000	426.300	0.000
29	426.560	7.422	426.440	3.981 #	426.440	4.392	426.400	3.872	426.350	0.000	426.290	0.000
30	426.550	7.494	426.490	5.890			426.400	3.713	426.340	0.000	426.290	0.000
31	426.550	7.569	426.520	5.867 *			426.410	3.771			426.280	0.000
n-Daily Me												
Ten-Daily	426.505	4.888	426.546	6.959	426.533	5.981	426.444	4.336	426.405	3.623	426.340	0.000
I Ten-Daily	426.515	5.858	426.579	7.569	426.511	6.047	426.436	4.285	426.420	3.696	426.336	0.000
I Ten-Daily	426.557	7.317	426.451	4.422	426.453	4.567	426.405	3.805	426.398	2.475	426.311	0.000
Monthly												
Min.	426.480	4.598	426.400	3.382	426.440	4.291	426.400	3.503	426.340	0.000	426.280	0.000
Max.	426.620	8.774	426.620	9.394	426.590	8.158	426.460	4.588	426.420	3.884	426.340	0.000
Mean	426.527	6.062	426.523	6.255	426.501	5.565	426.427	4.131	426.408	3.265	426.328	0

Peak Computed Discharge = 100.9 cumecs on 15-08-2015 Corres. Water Level :427.68 m

Lowest Computed Discharge = 2.076 cumecs on 28-06-2015 Corres. Water Level :426.34 m

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

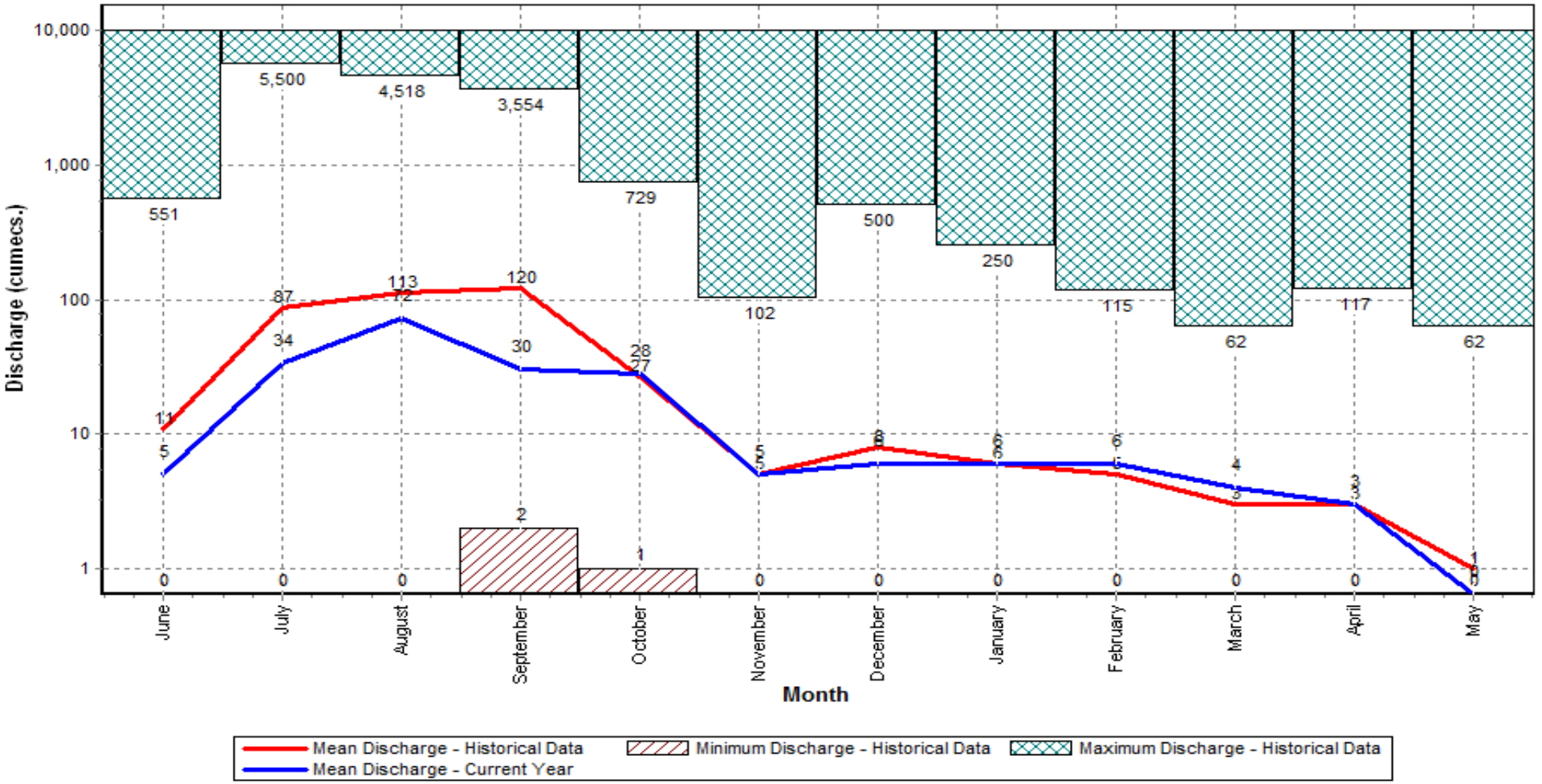
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016

Station Name : KEOLARI (AGH40V3) | **Data considered : 1987-2016** | **Division : Wainganga Div., Nagpur**

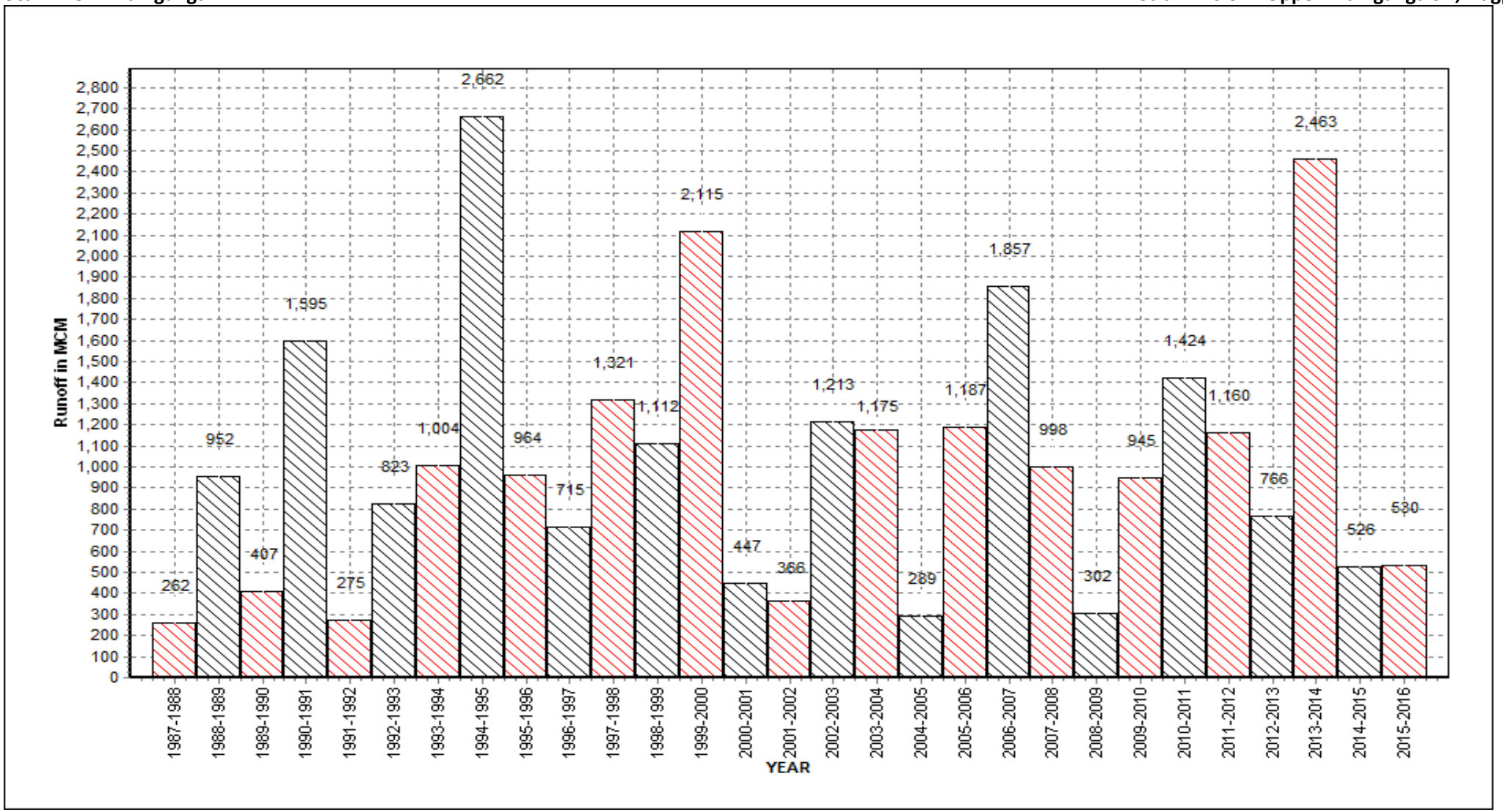
Local River : Wainganga | **Sub-Division : Upper Wainganga SD, Nagpur**



Annual Runoff Values for the period: 1987 - 2016

Station Name : KEOLARI (AGH40V3) **Division : Wainganga Div., Nagpur**

Local River : Wainganga **Sub-Division : Upper Wainganga SD, Nagpur**



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

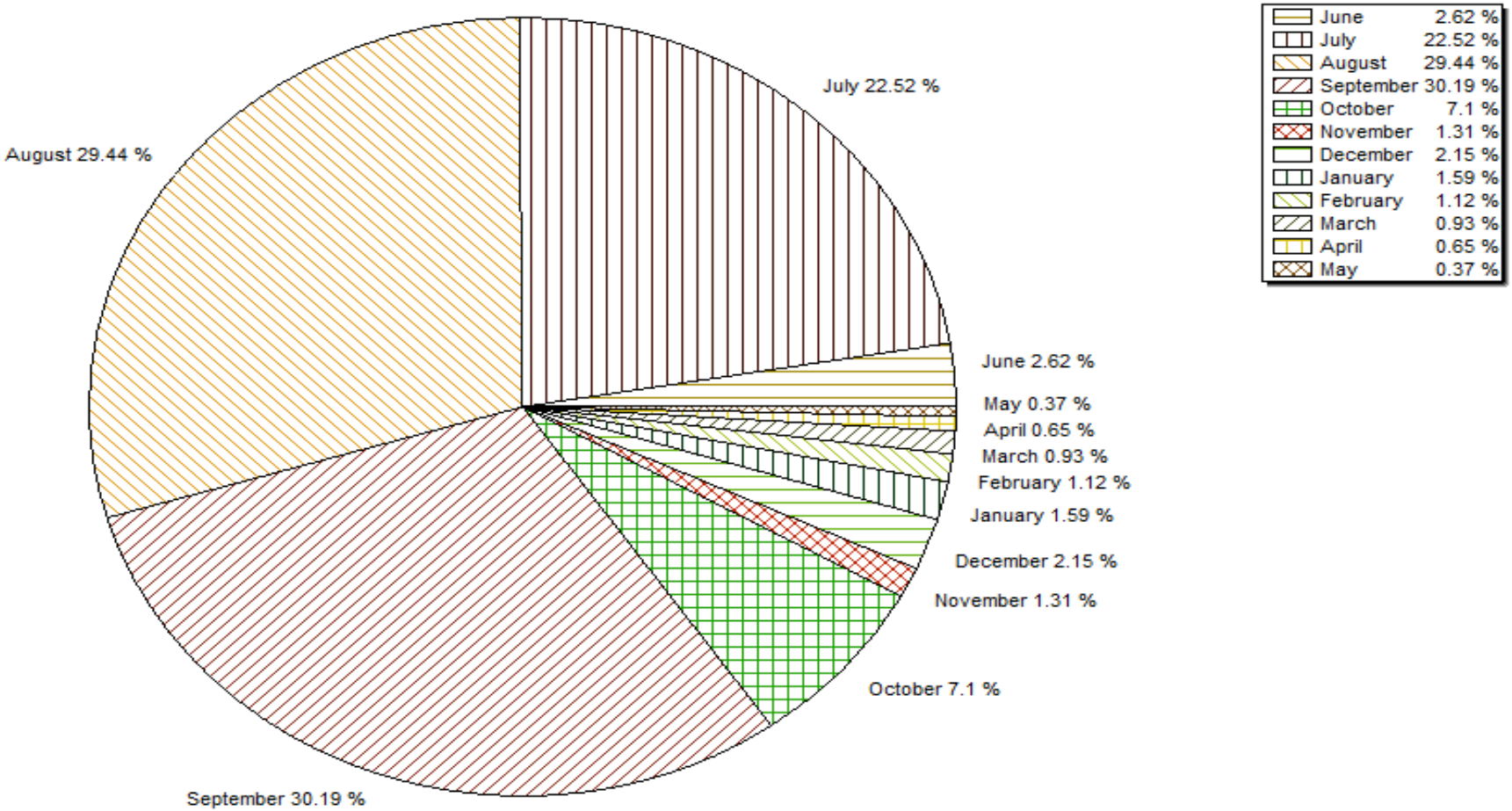
Monthly Average Runoff based on period : 1987-2015

Station Name : KEOLARI (AGH40V3)

Local River : Wainganga

Division : Wainganga Div., Nagpur

Sub-Division : Upper Wainganga SD, Nagpur



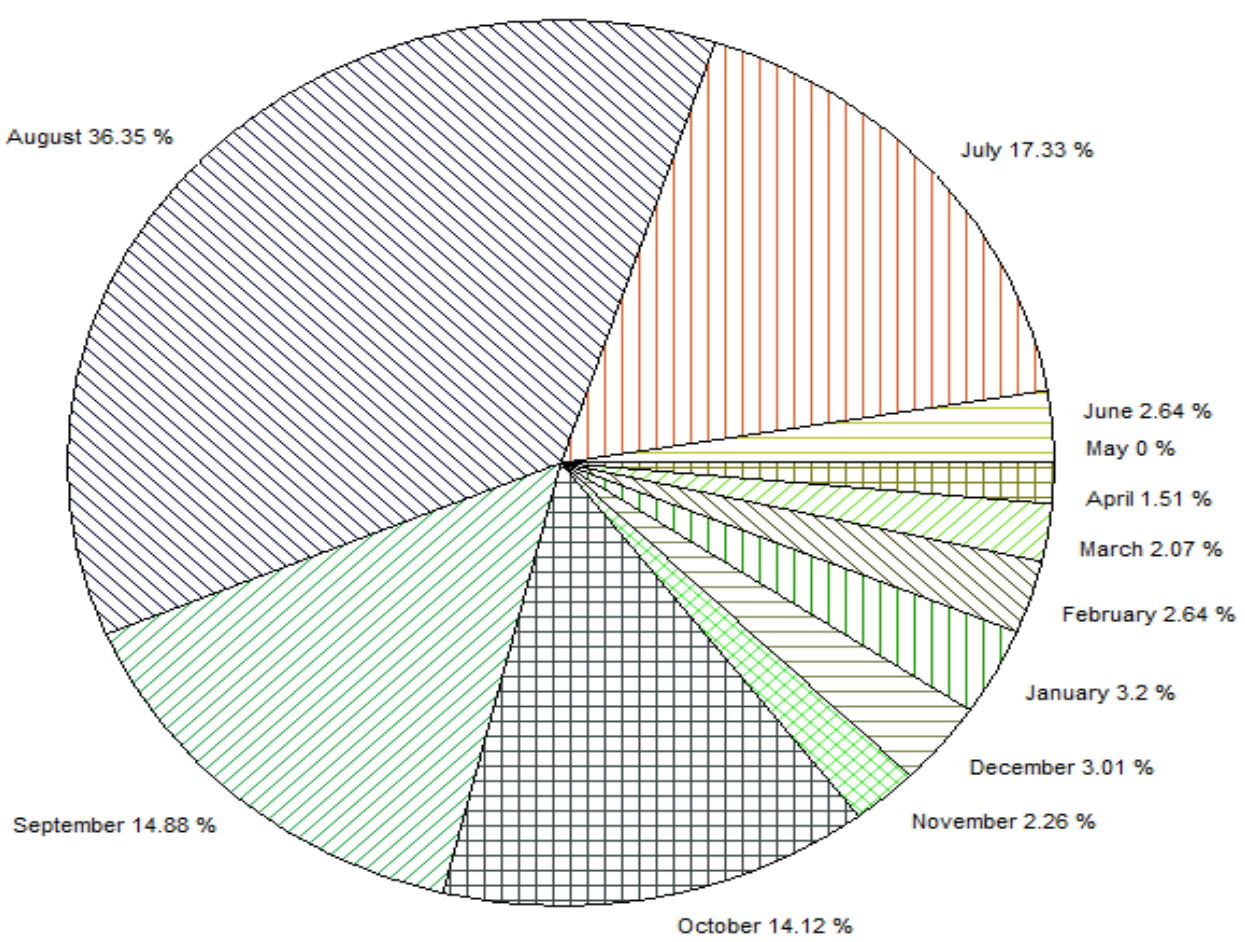
Monthly Runoff for the Year : 2015-2016

Station Name : KEOLARI (AGH40V3)

Local River : Wainganga

Division : Wainganga Div., Nagpur

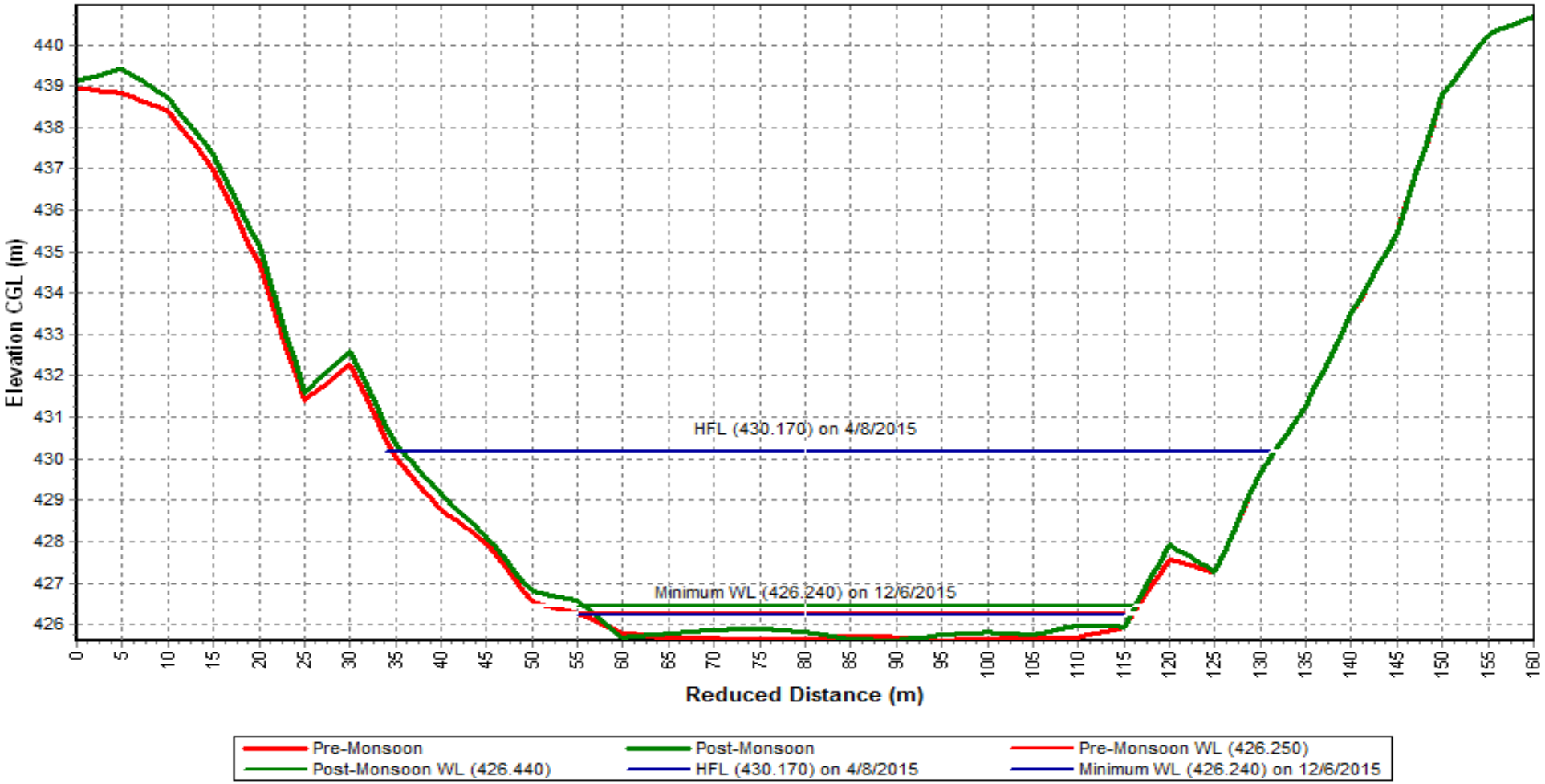
Sub-Division : Upper Wainganga SD, Nagpur



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

Station Name : KEOLARI (AGH40V3) **Division : Wainganga Div., Nagpur**

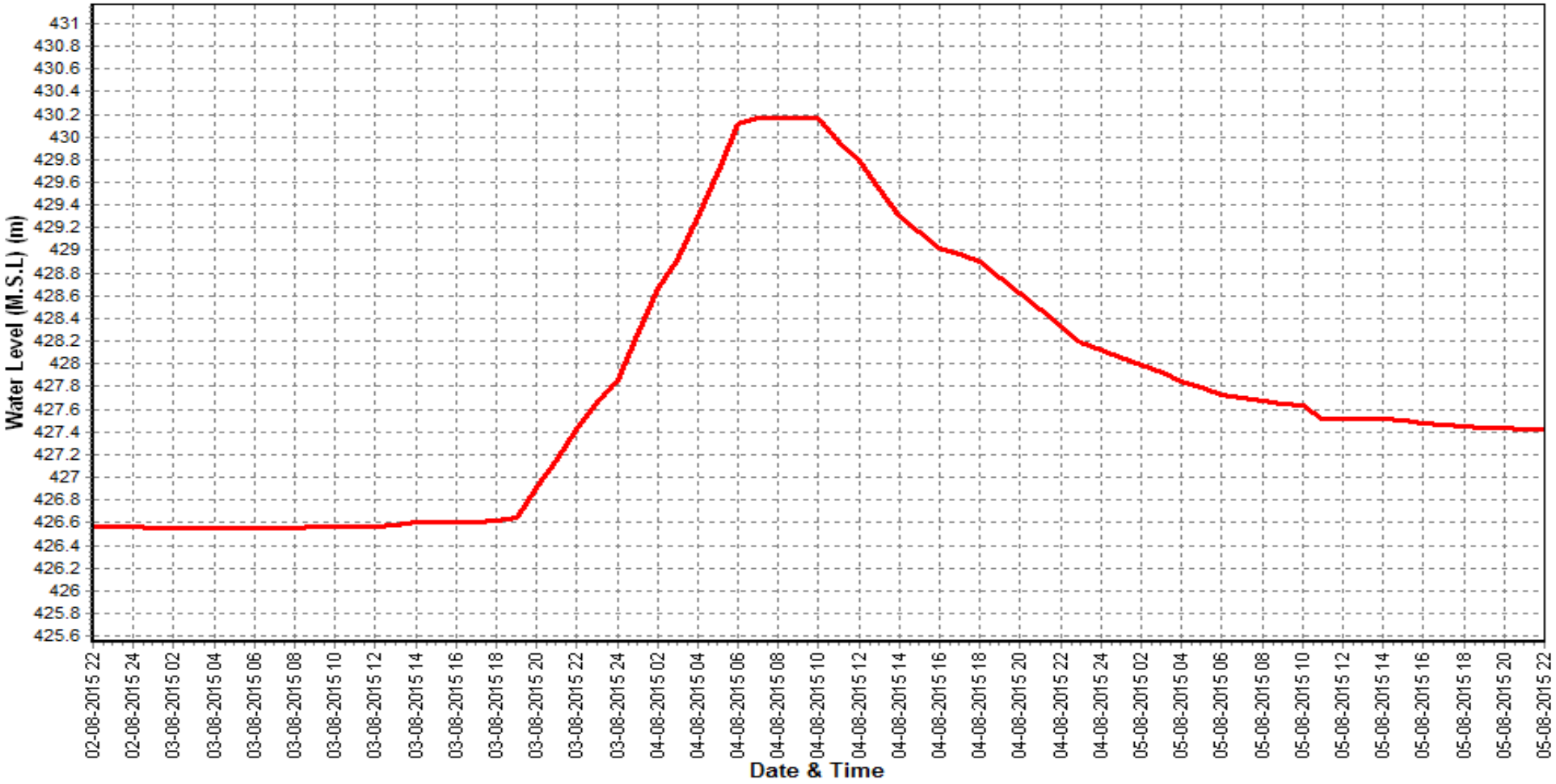
Local River : Wainganga **Sub-Division : Upper Wainganga SD, Nagpur**



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

Station Name : KEOLARI (AGH40V3) **Division : Wainganga Div., Nagpur**

Local River : Wainganga **Sub-Division : Upper Wainganga SD, Nagpur**

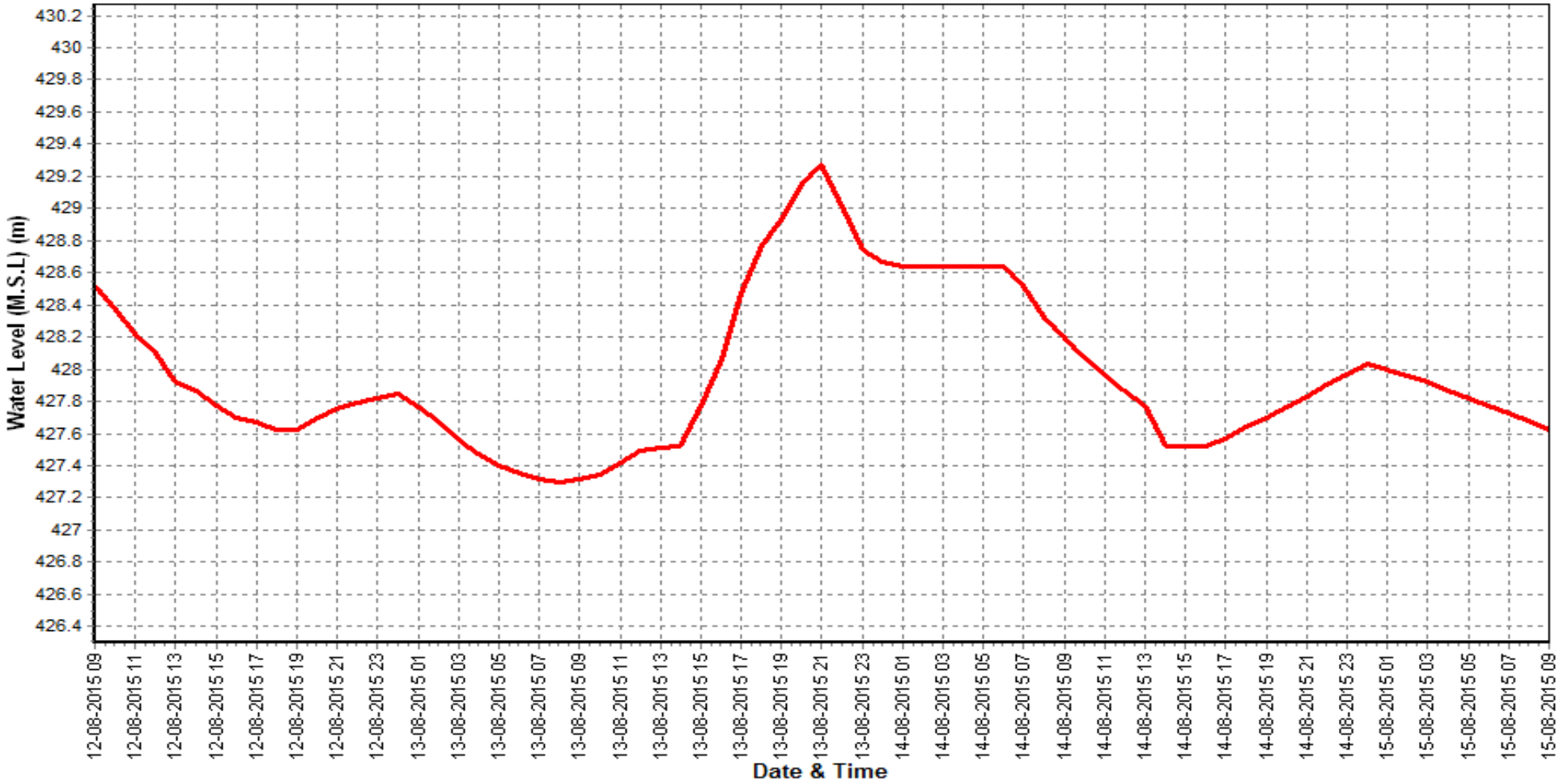


Time Span: 72 Hrs

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

Station Name : KEOLARI (AGH40V3) **Division : Wainganga Div., Nagpur**

Local River : Wainganga **Sub-Division : Upper Wainganga SD, Nagpur**

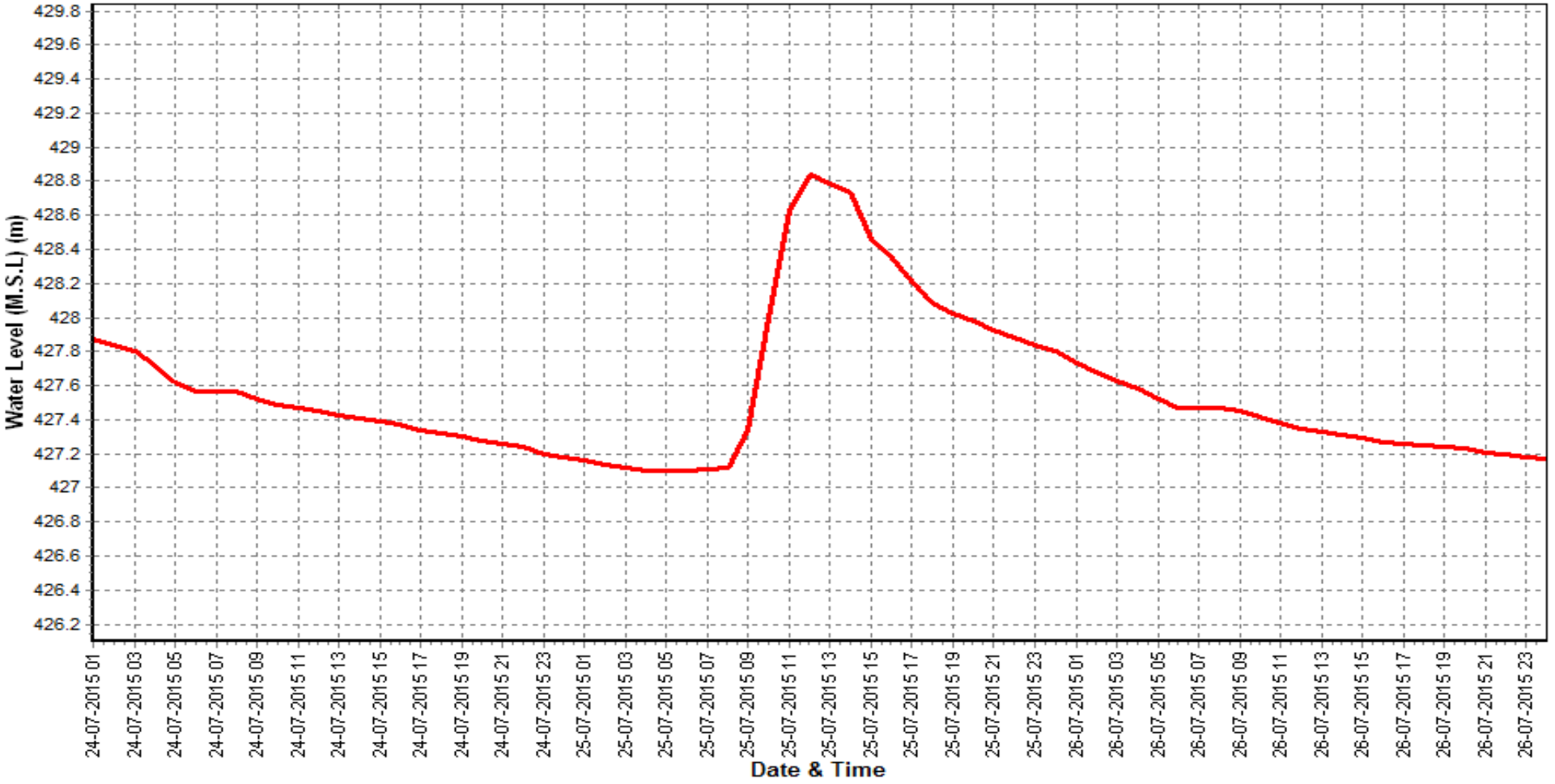


Time Span: 72 Hrs

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

Station Name : KEOLARI (AGH40V3) **Division : Wainganga Div., Nagpur**

Local River : Wainganga **Sub-Division : Upper Wainganga SD, Nagpur**



Time Span: 72 Hrs

HISTORY SHEET

Water Year : 2015-2016

Site	:	**Mancherial**	**Code**	:	**AG000J3**
State	:	Telangana	District		Adilabad
Basin	:	Ganga-Brahm-Meghna Basin	Independent River	:	Godavari
Tributary	:	-	Sub Tributary	:	-
Sub-Sub Tributary	:	-	Local River	:	Godavari
Division	:	U Godavari Div., Hyderabad	Sub-Division	:	Manjira SD, Nizamabad
Drainage Area	:	102900 Sq. Km.	Bank	:	Left
Latitude	:	18°50'08"	Longitude	:	79°27'00"
Zero of Gauge (m)	:	124.316 (m.s.l)	7/3/1964		
		Opening Date	Closing Date		
Gauge	:	3/1/1964	**HFL During 2015-16**	:	**126.916**
			Corres. Discharge	:	**553.372 Cumes(Estimated)**
Discharge	:	7/3/1964	**Date & Time of**	:	**9/17/2015**
			Occurance	:	**19:00 hrs.**
Sediment	:	7/1/1965			
Water Quality	:	12/1/1979			

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

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1966-1967	18538	134.226	9/5/1966	0.924	125.196	5/29/1967
1967-1968	9460	131.721	7/25/1967	0.800	125.176	6/12/1967
1968-1969	4740	129.906	8/12/1968	3.200	125.436	6/4/1968
1969-1970	18138	133.621	9/9/1969	5.300	125.766	5/29/1970
1970-1971	26537	136.486	8/20/1970	6.318	125.711	4/25/1971
1971-1972	6306	130.336	8/28/1971	2.018	125.636	5/28/1972
1972-1973	1490	128.206	7/4/1972	0.117	125.341	5/25/1973
1973-1974	14136	133.111	8/24/1973	0.180	125.321	6/2/1973
1974-1975	4767	130.021	10/25/1974	7.800	125.836	5/30/1975
1975-1976	11804	132.476	9/11/1975	4.245	126.060	5/4/1976
1976-1977	10527	132.206	9/3/1976	2.592	125.806	5/29/1977
1977-1978	5786	130.196	9/3/1977	2.600	125.816	6/6/1977
1978-1979	5670	130.206	8/17/1978	8.200	125.866	6/2/1978
1979-1980	6860	130.836	8/4/1979	7.958	125.791	5/30/1980
1980-1981	9000	131.526	9/5/1980	9.200	125.791	6/3/1980
1981-1982	5140	130.166	9/28/1981	9.000	125.616	5/31/1982
1982-1983	1698	128.191	10/22/1982	4.500	125.371	5/31/1983
1983-1984	29531	137.846	8/12/1983	3.000	125.336	6/13/1983
1984-1985	377.7	127.261	9/13/1984	3.300	125.696	5/31/1985
1985-1986	871.5	127.666	8/3/1985	1.012	125.531	5/31/1986
1986-1987	10982	131.976	8/13/1986	0.800	125.581	5/30/1987
1987-1988	1694	128.441	7/9/1987	0.670	125.556	6/8/1987

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**
1988-1989	20944	135.191	7/31/1988	2.141	125.616	6/4/1988
1989-1990	24900	136.876	7/25/1989	18.00	125.426	5/5/1990
1990-1991	23846	136.211	8/31/1990	8.496	125.516	5/27/1991
1991-1992	6463	130.759	7/13/1991	2.009	125.066	5/31/1992
1992-1993	5066	129.781	9/5/1992	0.925	125.016	6/9/1992
1993-1994	2257	128.641	8/4/1993	0.253	125.066	5/29/1994
1994-1995	2317	128.549	7/12/1994	0.205	125.046	6/8/1994
1995-1996	31820	137.386	10/20/1995	1.607	125.206	6/16/1995
1996-1997	4618	129.821	9/17/1996	4.407	125.336	6/13/1996
1997-1998	552.7	126.961	10/29/1997	0.577	125.096	5/31/1998
1998-1999	8209	131.896	10/18/1998	0.288	125.026	6/12/1998
1999-2000	8340	131.061	9/9/1999	2.278	125.416	6/10/1999
2000-2001	15840	133.336	8/28/2000	4.352	125.426	5/30/2001
2001-2002	2805	128.591	10/12/2001	2.017	125.316	8/4/2001
2002-2003	4252	129.331	8/25/2002	0.198	124.836	5/31/2003
2003-2004	4475	129.506	8/8/2003	0.000	124.766	6/10/2003
2004-2005	122.6	125.966	7/14/2004	0.000	124.666	5/6/2005
2005-2006	7376	131.511	9/23/2005	0.000	124.596	6/13/2005
2006-2007	9901	132.791	8/7/2006	0.849	125.046	6/22/2006
2007-2008	611.5	127.106	10/2/2007	3.440	125.236	5/23/2008
2008-2009	2560	128.331	9/25/2008	0.000	125.236	7/3/2008
2009-2010	296.8	126.716	9/4/2009	0.000	124.786	4/1/2010
2010-2011	7085	131.301	9/8/2010	0.000		7/2/2010
2011-2012	2133	127.676	8/30/2011	1.411	124.966	5/11/2012
2012-2013	1181	127.376	9/11/2012	0.000	124.856	5/20/2013
2013-2014	5748	129.756	7/24/2013	0.000	124.816	6/12/2013
2014-2015	2212	127.681	9/8/2014	0.000	124.866	4/29/2015

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

Stage-Discharge Data for the period 2015 - 2016

Station Name : Mancherial (AG000J3) **Division : U Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Manjira SD, Nizamabad**

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	124.836	0.000	125.446	76.89	125.516	88.56	125.396	69.54	125.536	89.10	125.206	32.38 *
2	124.836	0.000	125.436	76.43	125.516	86.81 *	125.426	73.37	125.516	86.81 *	125.206	29.40
3	124.836	0.000	125.436	76.63	125.516	88.24	125.426	73.24	125.516	86.29	125.206	29.44
4	124.836	0.000	125.436	76.20	125.516	89.12	125.426	73.45	125.466	76.62 *	125.186	27.13
5	124.836	0.000	125.436	70.75 *	125.516	88.83	125.426	73.82	125.456	75.99	125.186	27.29
6	124.836	0.000	125.436	76.76	125.056	13.10	125.426	68.84 *	125.456	76.27	125.186	27.38
7	124.836	0.000	125.436	76.97	125.416	72.81	125.416	72.53	125.466	77.36	125.166	25.93
8	124.836	0.000	125.436	76.41	125.436	73.09	125.416	72.08	125.456	76.29	125.166	26.98 *
9	124.856	0.000	125.436	75.63	125.436	70.75 *	125.416	72.38	125.436	74.23	125.166	25.85
10	124.866	0.000	125.436	75.79	125.446	74.03	125.416	72.46	125.436	75.11	125.166	25.86
11	124.866	0.000	125.416	73.53	125.496	85.91	125.416	72.57	125.436	70.75 *	125.166	26.98 *
12	124.866	0.000	125.416	66.95 *	125.471	83.97	125.406	69.98	125.456	76.00	125.166	25.55
13	124.866	0.000	125.416	75.27	125.426	73.64	125.376	59.59 *	125.336	64.05	125.166	25.37
14	124.866	0.000	125.426	75.24	125.416	73.75	125.356	64.94	125.336	63.23	125.166	25.37
15	124.866	0.000	125.726	105.8	125.416	66.95 *	125.486	84.10	125.336	63.70	125.166	26.98 *
16	124.866	0.000	125.706	103.9	125.416	66.95 *	125.541	89.68	125.336	63.08	125.156	24.35
17	124.866	0.000	125.556	88.31	125.411	72.88	125.736	137.6 *	125.356	66.99	125.156	24.55
18	124.866	0.000	125.556	95.34 *	125.406	70.42	126.486	369.1	125.356	56.05 *	125.156	24.69
19	124.886	0.000	125.516	86.81 *	125.406	71.25	125.621	94.68	125.336	62.83	125.156	24.63
20	124.896	0.000	125.541	89.50	125.406	71.17	125.536	91.04 *	125.336	63.98	125.156	24.63
21	124.936	0.000	125.606	92.37	125.406	72.28	125.536	88.96	125.216	29.24	125.156	24.69
22	125.526	84.38	125.616	93.44	125.406	71.47	125.496	85.51	125.216	33.79 *	125.156	25.69 *
23	125.506	82.38	125.596	90.98	125.406	65.07 *	125.526	88.39	125.216	29.27	125.156	24.57
24	125.506	82.77	125.729	102.5	125.406	71.36	125.526	88.50	125.216	33.79 *	125.156	24.85
25	125.456	78.37	125.639	95.80	125.396	64.48	125.516	86.81 *	125.216	33.79 *	125.146	24.43 *
26	125.446	76.39	125.556	95.34 *	125.391	68.42	125.516	87.71	125.216	29.55	125.146	23.58
27	125.456	78.53	125.536	88.78	125.366	66.62	125.536	91.04 *	125.206	28.31	125.146	23.58
28	125.456	74.64 *	125.696	103.7	125.366	66.54	125.546	89.97	125.206	28.72	125.146	23.69
29	125.461	76.30	125.571	90.67	125.366	66.67	125.546	89.97	125.206	29.43	125.146	24.43 *
30	125.466	79.16	125.516	87.79	125.366	57.81 *	125.536	89.53	125.206	29.24	125.146	23.73
31			125.516	88.24	125.396	69.72			125.206	29.41		
-Daily Mean												
Ten-Dail	124.841	0.000	125.437	75.85	125.437	74.54	125.419	72.17	125.474	79.41	125.184	27.76
Ten-Dai	124.871	0.000	125.528	86.07	125.427	73.69	125.596	113.3	125.362	65.07	125.161	25.31
Ten-Dai	125.422	71.29	125.598	93.60	125.388	67.31	125.528	88.64	125.211	30.42	125.150	24.32
Monthly												
Min.	124.836	0.000	125.416	66.95	125.056	13.10	125.356	59.59	125.206	28.31	125.146	23.58
Max.	125.526	84.38	125.729	105.8	125.516	89.12	126.486	369.1	125.536	89.10	125.206	32.38
Mean	125.045	23.76	125.523	85.45	125.416	71.7	125.514	91.38	125.345	57.4	125.165	25.8

Annual Runoff in MCM = 1124 Annual Runoff in mm = 11

Peak Observed Discharge = 369.1 cumecs on 18/09/2015 Corres. Water Level :126.486 m

Lowest Observed Discharge = 0.000 cumecs on 01/06/2015 Corres. Water Level :124.836 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 : Mancherial (AG000J3) **Division : U Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Manjira SD, Nizamabad**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	125.146	23.87	125.126	22.19	125.116	20.99	125.076	15.60	124.876	1.304	124.816	0.000
2	125.146	23.72	125.126	22.22	125.116	21.28	125.076	15.14	124.886	1.789 #	124.816	0.000
3	125.146	23.72	125.126	21.99 *	125.106	19.38	125.076	15.04	124.886	1.789 *	124.816	0.000
4	125.146	23.83	125.126	22.43	125.106	19.10	125.076	14.95	124.876	1.322	124.816	0.000
5	125.146	24.19	125.126	22.03	125.106	19.05	125.076	15.00	124.876	1.329	124.816	0.000
6	125.146	24.43 *	125.116	21.16	125.106	19.11	125.076	16.35 *	124.866	1.114	124.826	0.000
7	125.146	23.80	125.116	21.36	125.096	18.52 *	125.076	15.00	124.866	1.106	124.826	0.000
8	125.126	22.62	125.116	21.42	125.096	17.88	125.076	15.20	124.866	1.014 *	124.826	0.000
9	125.126	22.82	125.116	21.75	125.086	16.89	125.076	15.07	124.866	1.105	124.826	0.000
10	125.126	22.71	125.116	20.81 *	125.086	16.93	125.076	15.05	124.866	1.014 *	124.826	0.000
11	125.126	22.48	125.116	21.50	125.086	16.54	125.076	14.98	124.866	1.100	124.826	0.000
12	125.126	22.25	125.116	21.61	125.096	17.62	125.076	15.05	124.866	1.109	124.826	0.000
13	125.126	21.99 *	125.116	21.63	125.096	17.42	125.076	16.35 *	124.866	1.106	124.826	0.000
14	125.126	22.27	125.116	21.54	125.096	18.52 *	125.076	15.02	124.866	1.014 *	124.826	0.000
15	125.126	22.23	125.116	20.81 *	125.086	16.35	124.896	1.722	124.856	0.696 #	124.826	0.000
16	125.126	22.09	125.116	21.74	125.086	16.23	124.856	0.696 #	124.846	0.000	124.826	0.000
17	125.126	22.22	125.116	20.81 *	125.086	16.16	124.856	0.696 #	124.846	0.000	124.826	0.000
18	125.126	22.10	125.126	22.44	125.096	16.82	124.856	0.696 #	124.836	0.000	124.826	0.000
19	125.126	22.25	125.126	22.63	125.096	17.13	124.866	1.093	124.816	0.000	124.826	0.000
20	125.116	20.81 *	125.126	22.70	125.096	17.13	124.866	1.014 *	124.816	0.000	124.826	0.000
21	125.116	21.30	125.126	22.68	125.096	18.52 *	124.866	1.125	124.816	0.000	124.826	0.000
22	125.116	21.30	125.126	22.49	125.096	17.05	124.866	1.116	124.816	0.000	124.826	0.000
23	125.116	21.28	125.126	22.41	125.096	17.07	124.866	1.124	124.816	0.000	124.826	0.000
24	125.116	20.81 *	125.126	21.99 *	125.096	17.02	124.866	1.131	124.816	0.000	124.826	0.000
25	125.116	20.81 *	125.116	21.48	125.086	16.35	124.886	1.789 *	124.816	0.000	124.826	0.000
26	125.116	21.18	125.116	20.81 *	125.086	16.36	124.896	1.708	124.816	0.000	124.826	0.000
27	125.116	20.81 *	125.116	21.67	125.086	16.19	124.886	1.789 *	124.816	0.000	124.826	0.000
28	125.126	22.11	125.116	21.42	125.086	17.42 *	124.876	1.310	124.816	0.000	124.826	0.000
29	125.126	22.11	125.116	21.21	125.086	16.16	124.876	1.326	124.816	0.000	124.826	0.000
30	125.126	22.02	125.116	21.26			124.866	1.125	124.816	0.000	124.826	0.000
31	125.126	22.20	125.116	20.81 *			124.866	1.113			124.826	0.000
-Daily M												
Ten-Dail	125.140	23.57	125.121	21.74	125.102	18.91	125.076	15.24	124.873	1.289	124.821	0.000
Ten-Dai	125.125	22.07	125.119	21.74	125.092	16.99	124.950	6.730	124.848	0.502	124.826	0.000
Ten-Dai	125.120	21.45	125.120	21.66	125.090	16.90	124.874	1.332	124.816	0.000	124.826	0.000
Monthly												
Min.	125.116	20.81	125.116	20.81	125.086	16.16	124.856	0.696	124.816	0.000	124.816	0.000
Max.	125.146	24.43	125.126	22.70	125.116	21.28	125.076	16.35	124.886	1.789	124.826	0.000
Mean	125.128	22.33	125.120	21.71	125.095	17.63	124.964	7.56	124.846	0.597	124.824	0

Peak Computed Discharge = 137.6 cumecs on 17/09/2015 Corres. Water Level :125.736 m

Lowest Computed Discharge = 1.014 cumecs on 20/03/2016 Corres. Water Level :124.866 m

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

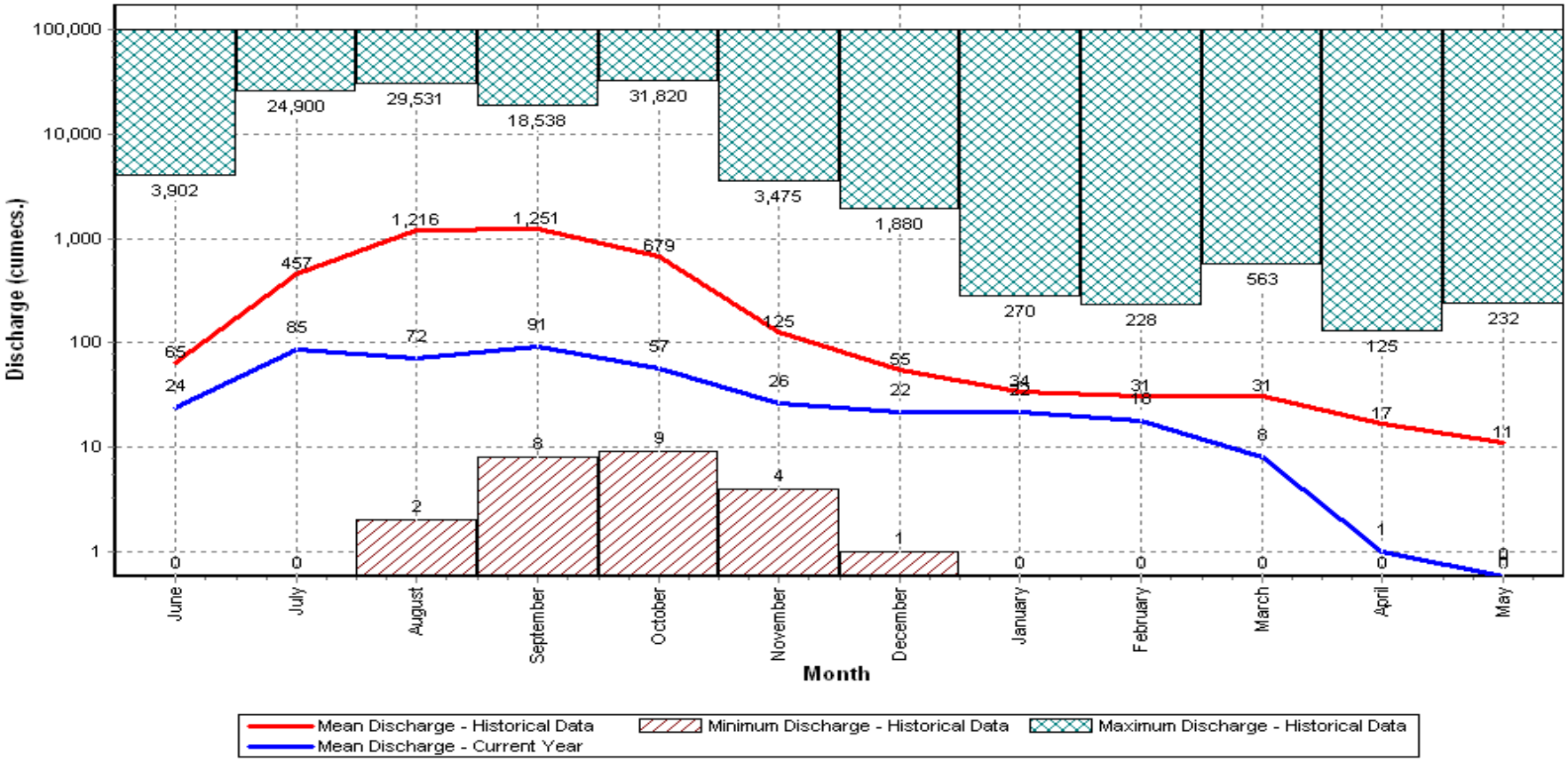
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016

Station Name : Mancherial (AG000J3) | **Data considered : 1966-2016** | **Division : U Godavari Div., Hyderabad**

Local River : Godavari | **Sub-Division : Manjira SD, Nizamabad**



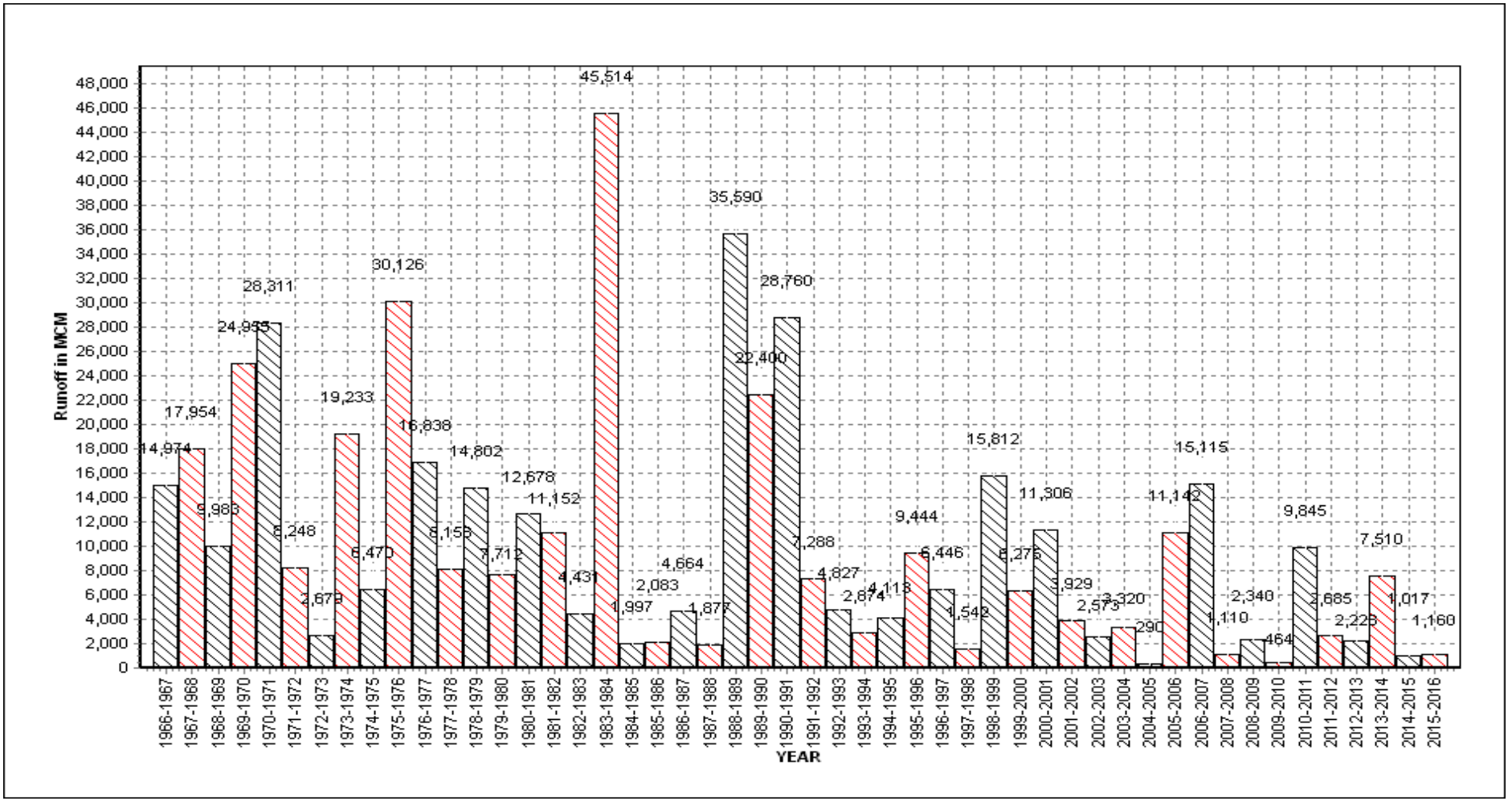
Annual Runoff Values for the period: 1966 - 2016

Station Name : Mancherial (AG000J3)

Local River : Godavari

Division : U Godavari Div., Hyderabad

Sub-Division : Manjira SD, Nizamabad



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

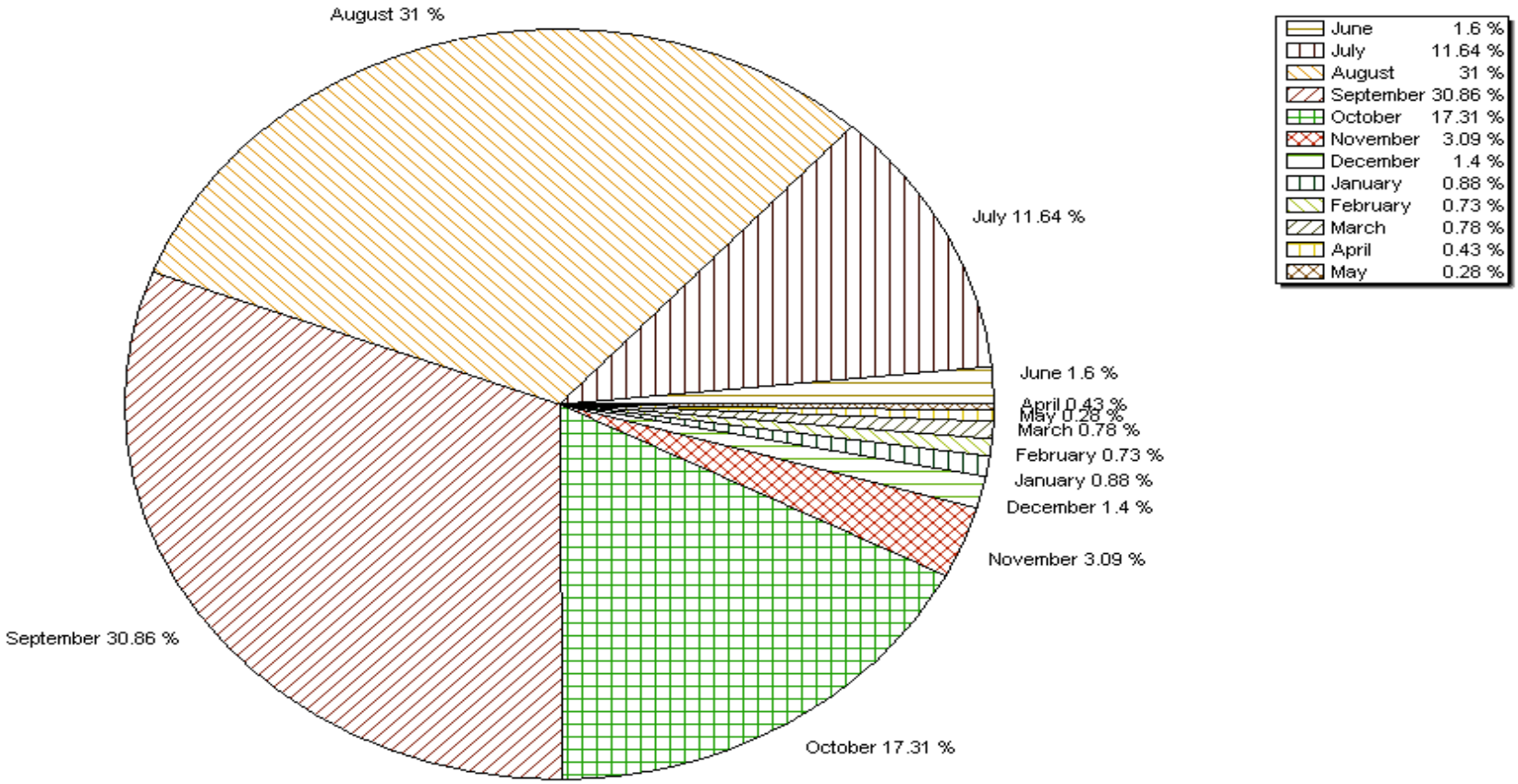
Monthly Average Runoff based on period : 1966-2015

Station Name : Mancherial (AG000J3)

Division : U Godavari Div., Hyderabad

Local River : Godavari

Sub-Division : Manjira SD, Nizamabad



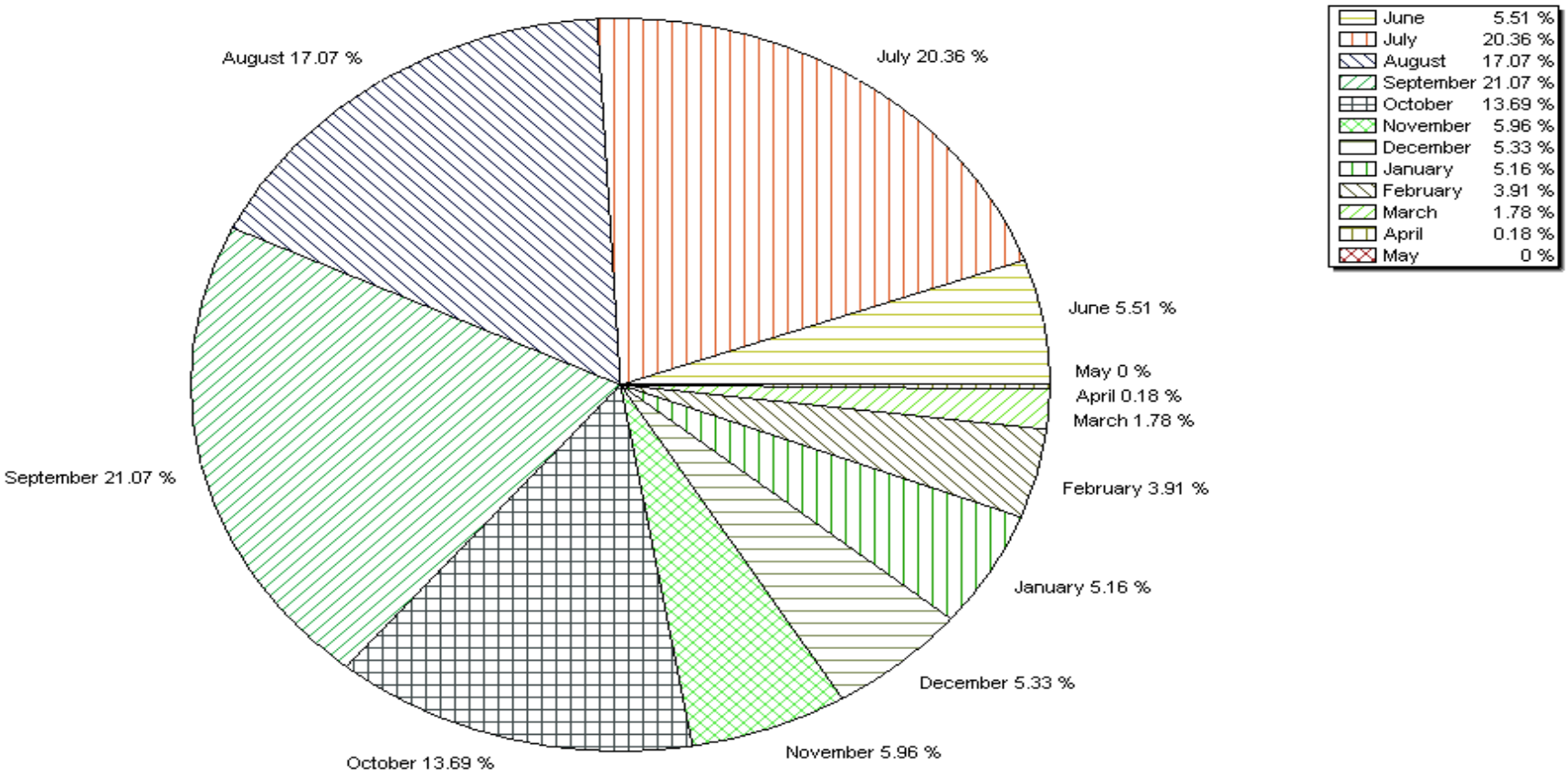
Monthly Runoff for the Year : 2015-2016

Station Name : Mancherial (AG000J3)

Local River : Godavari

Division : U Godavari Div., Hyderabad

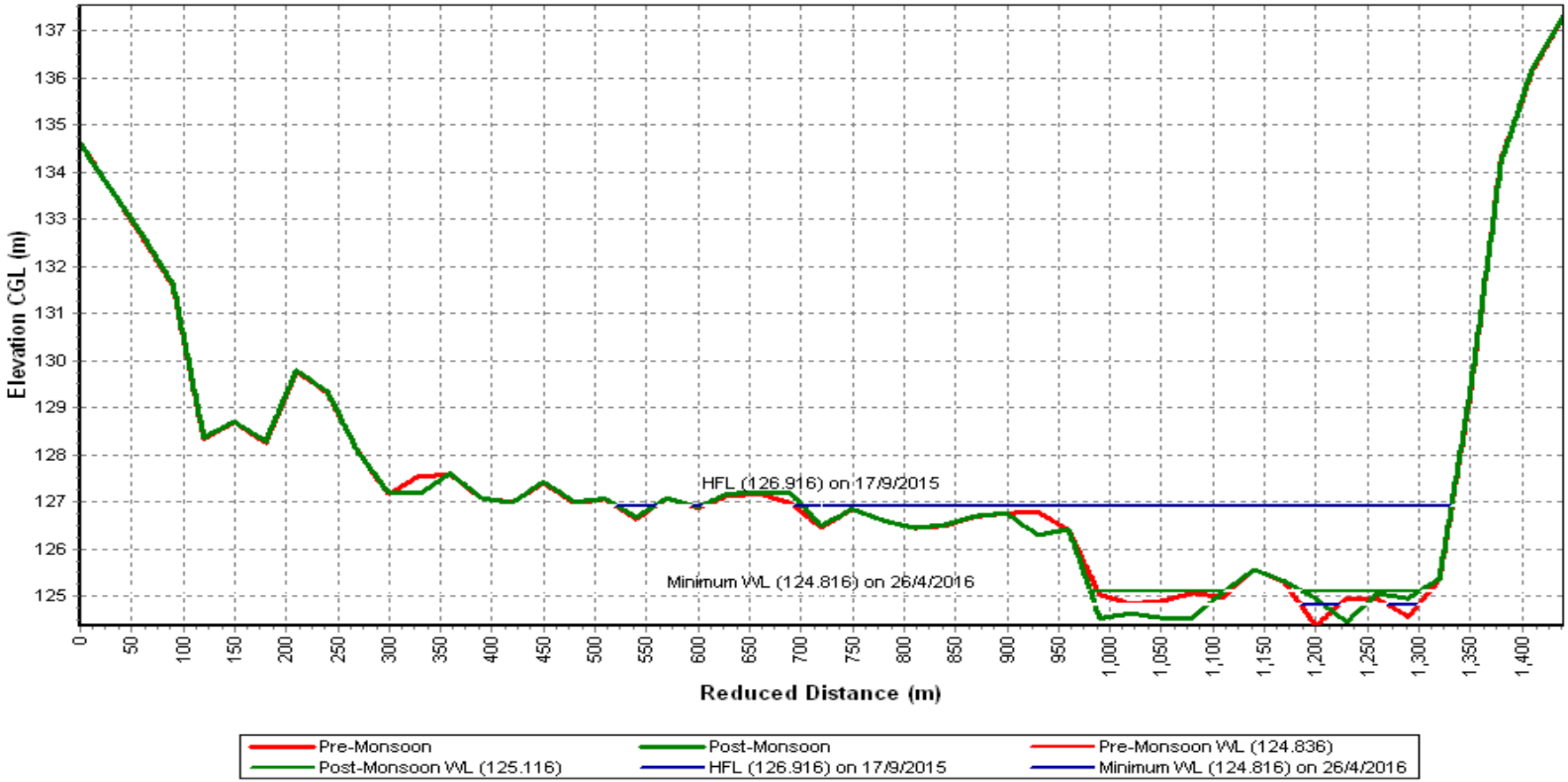
Sub-Division : Manjira SD, Nizamabad



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

Station Name : Mancherial (AG000J3) **Division : U Godavari Div., Hyderabad**

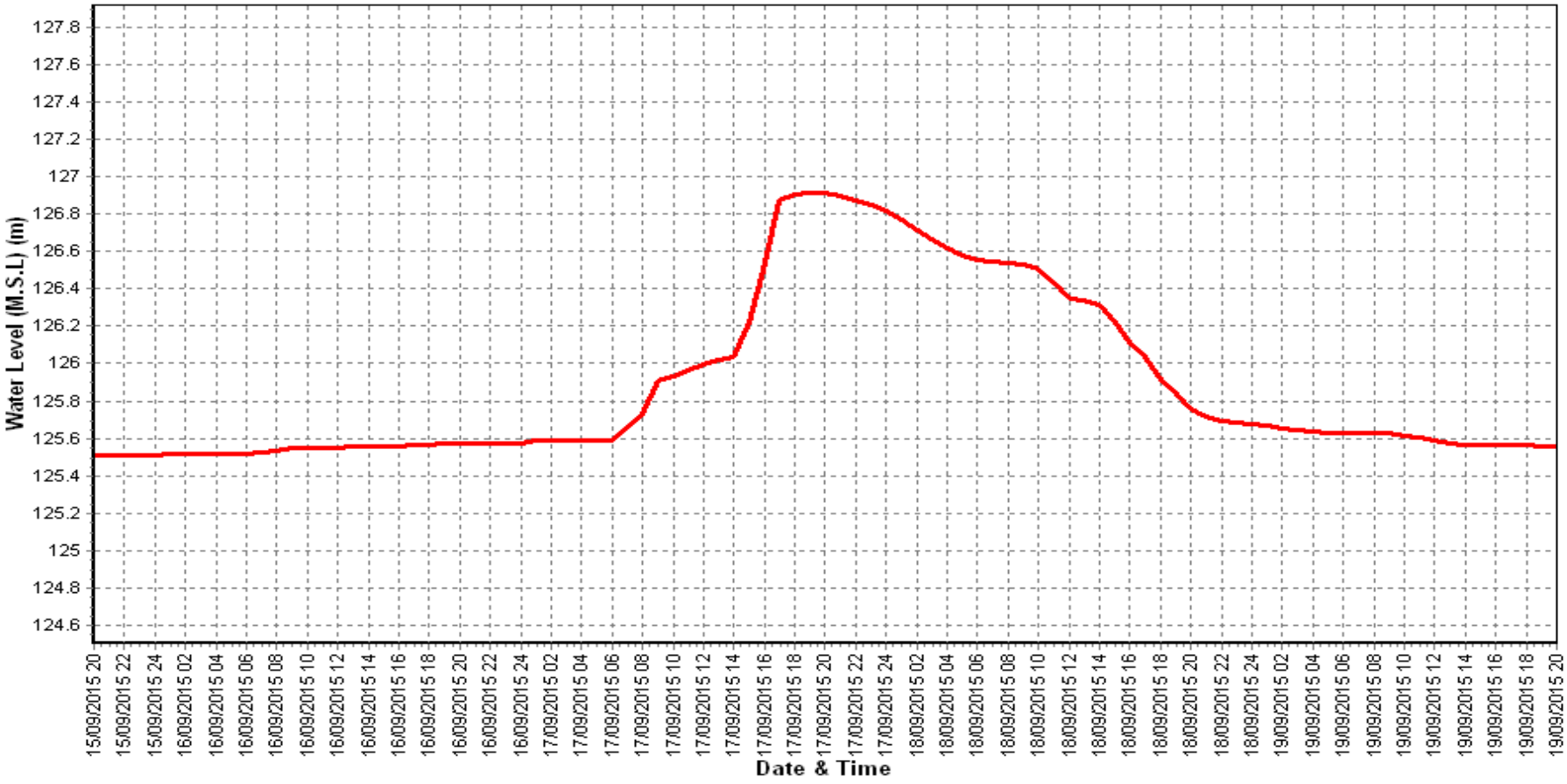
Local River : Godavari **Sub-Division : Manjira SD, Nizamabad**



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

Station Name : Mancherial (AG000J3) **Division : U Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Manjira SD, Nizamabad**

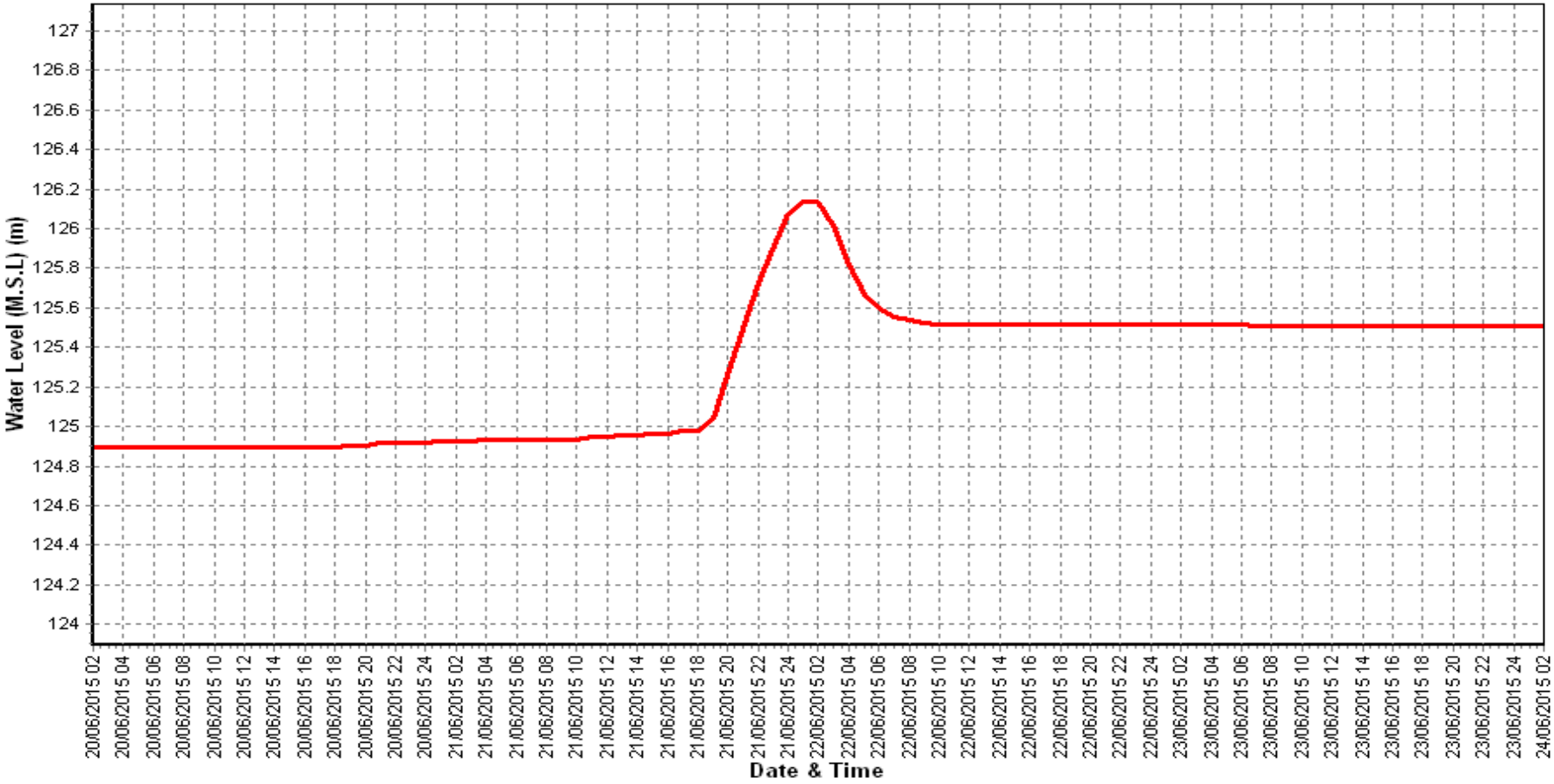


Time Span: 96 Hrs

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

Station Name : Mancherial (AG000J3) **Division : U Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Manjira SD, Nizamabad**

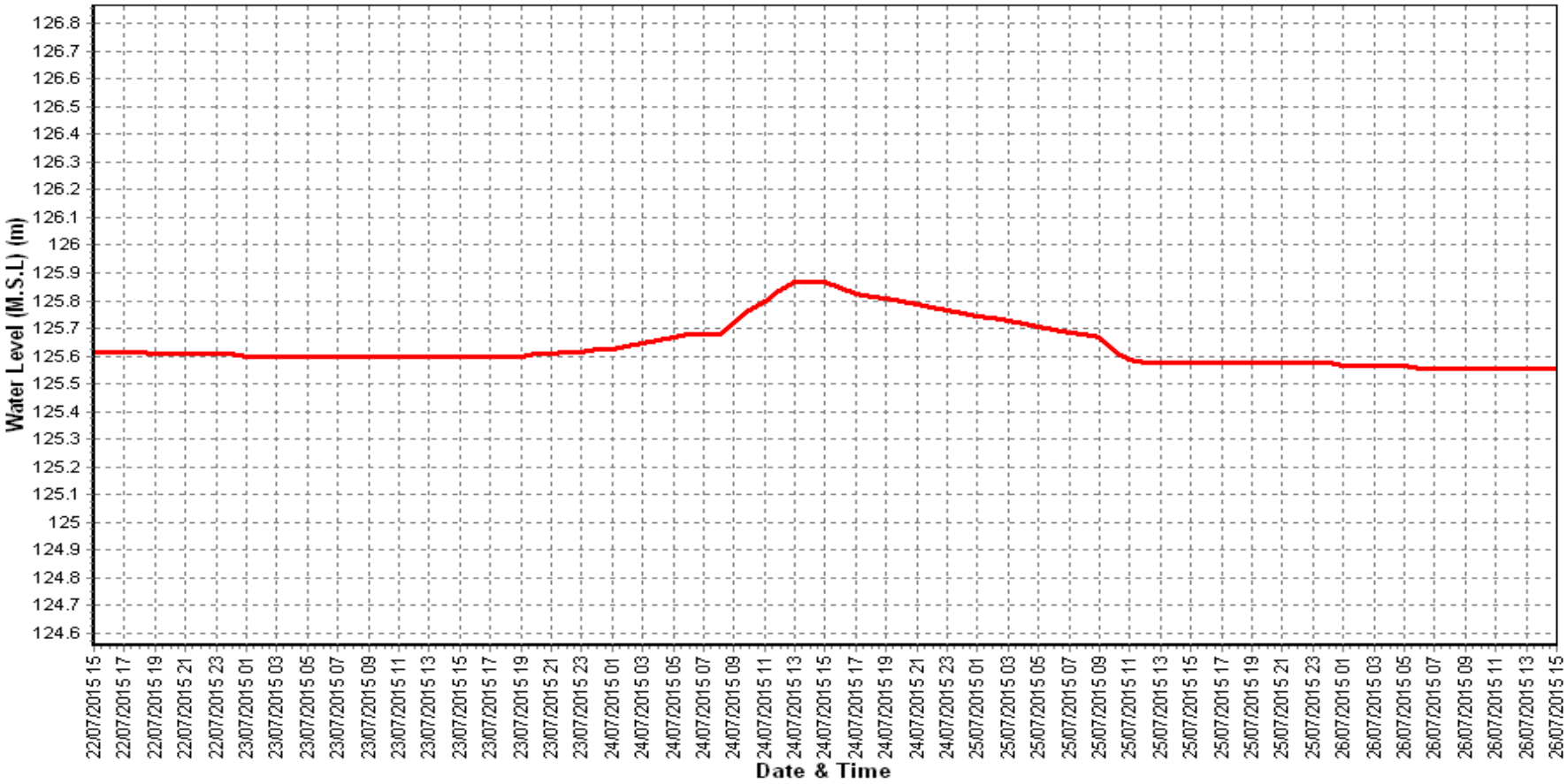


Time Span: 96 Hrs

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

Station Name : Mancherial (AG000J3) **Division : U Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Manjira SD, Nizamabad**



Time Span: 96 Hrs

HISTORY SHEET

Water Year : 2015-2016

Site	**:**	**Gandlapet**	**Code**	**:**	**AGM00G6**
State	:	Telangana	District		Nizamabad
Basin	:	Godavari	Independent River	:	Godavari
Tributary	:	Peddavagu	Sub Tributary	:	
Sub-Sub Tributary	:	-	Local River	:	Peddavagu
Division	:	U Godavari Div., Hyderabad	Sub-Division	:	Manjira SD, Nizamabad
Drainage Area	:	1360 Sq. Km.	Bank	:	
Latitude	:	18°49'16"	Longitude	:	78°26'17"
Zero of Gauge (m)	:	312.000 (m.s.l)	7/18/1986		-
		Opening Date	Closing Date		
Gauge	:	7/18/1986	**HFL During 2015-16**	**:**	**0(DRY BED)**
Discharge	:	9/10/1986	**Corres.Discharge**	**:**	**0.000cumecs(Observed)**
Sediment	:				
Water Quality	:	7/31/1988			

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

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1987-1988	9.489	313.760	11/20/1987	0.000		1/3/1988
1988-1989	1326	317.215	8/20/1988	0.000		2/18/1989
1989-1990	1155	317.000	7/24/1989	0.000		1/25/1990
1990-1991	1656	317.900	8/30/1990	0.000		2/22/1991
1991-1992	1240	317.175	7/12/1991	0.000		1/26/1992
1992-1993	29.86	314.160	8/16/1992	0.000		1/25/1993
1993-1994	359.6	315.400	7/30/1993	0.000		1/25/1994
1994-1995	64.97	314.450	10/7/1994	0.000		3/1/1995
1995-1996	1072	317.150	10/19/1995	0.000		3/11/1996
1996-1997	254.0	315.010	10/2/1996	0.000		3/3/1997
1997-1998	8.252	313.885	10/29/1997	0.000		1/16/1998
1998-1999	327.8	315.515	10/16/1998	0.000		2/22/1999
1999-2000	494.8	315.800	9/10/1999	0.000		2/10/2000
2000-2001	808.5	316.420	8/11/2000	0.000		1/25/2001
2001-2002	182.3	314.880	8/23/2001	0.000		2/16/2002
2002-2003	12.90	313.820	8/25/2002	0.000		1/25/2003
2003-2004	23.90	313.940	8/24/2003	0.000		1/26/2004
2004-2005	4.835	313.470	9/12/2004	0.000		1/25/2005
2005-2006	42.22	313.850	9/22/2005	0.000		1/27/2006
2006-2007	457.5	315.300	8/5/2006	0.000		1/25/2007
2007-2008	0.000	312.770	9/24/2007	0.000		2/5/2008
2008-2009	0.000	313.610	10/4/2008	0.000		1/25/2009

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		10/4/2009	0.000		1/25/2010
2010-2011	86.16	313.850	9/24/2010	0.000		1/25/2011
2011-2012	97.32	313.920	7/29/2011	0.000		1/26/2012
2012-2013	136.9	314.140	10/3/2012	0.000	312.265	11/7/2012
2013-2014	175.4	314.100	8/1/2013	0.000		2/16/2014
2014-2015	13.50	312.785	9/1/2014	0.000	312.000	12/16/2014

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

Stage-Discharge Data for the period 2015 - 2016

Station Name : Gandlapet (AGM00G6) **Division : U Godavari Div., Hyderabad**

Local River : Peddavagu **Sub-Division : Manjira SD, Nizamabad**

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	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
2	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
3	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
4	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
5	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
6	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
7	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
8	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
9	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
10	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
11	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
12	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
13	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
14	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
15	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
16	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
17	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
18	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
19	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
20	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
21	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
22	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
23	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
24	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
25	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
26	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
27	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
28	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
29	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
30	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
31			312.000	0.000	312.000	0.000			312.000	0.000		
n-Daily Mean												
I Ten-Daily	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
II Ten-Daily	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
II Ten-Daily	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
Monthly												
Min.	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
Max.	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
Mean	312.000	0	312.000	0	312.000	0	312.000	0	312.000	0	312.000	0

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

Peak Observed Discharge = 0.000 cumecs on 01/06/2015 Corres. Water Level :312 m

Lowest Observed Discharge = 0.000 cumecs on 01/06/2015 Corres. Water Level :312 m

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 : Gandlapet (AGM00G6) **Division : U Godavari Div., Hyderabad**

Local River : Peddavagu **Sub-Division : Manjira SD, Nizamabad**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
2	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
3	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
4	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
5	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
6	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
7	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
8	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
9	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
10	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
11	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
12	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
13	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
14	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
15	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
16	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
17	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
18	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
19	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
20	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
21	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
22	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
23	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
24	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
25	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
26	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
27	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
28	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
29	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
30	312.000	0.000	312.000	0.000			312.000	0.000	312.000	0.000	312.000	0.000
31	312.000	0.000	312.000	0.000			312.000	0.000			312.000	0.000
n-Daily Me												
I Ten-Daily	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
II Ten-Daily	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
II Ten-Daily	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
Monthly												
Min.	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
Max.	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000	312.000	0.000
Mean	312.000	0	312.000	0	312.000	0	312.000	0	312.000	0	312.000	0

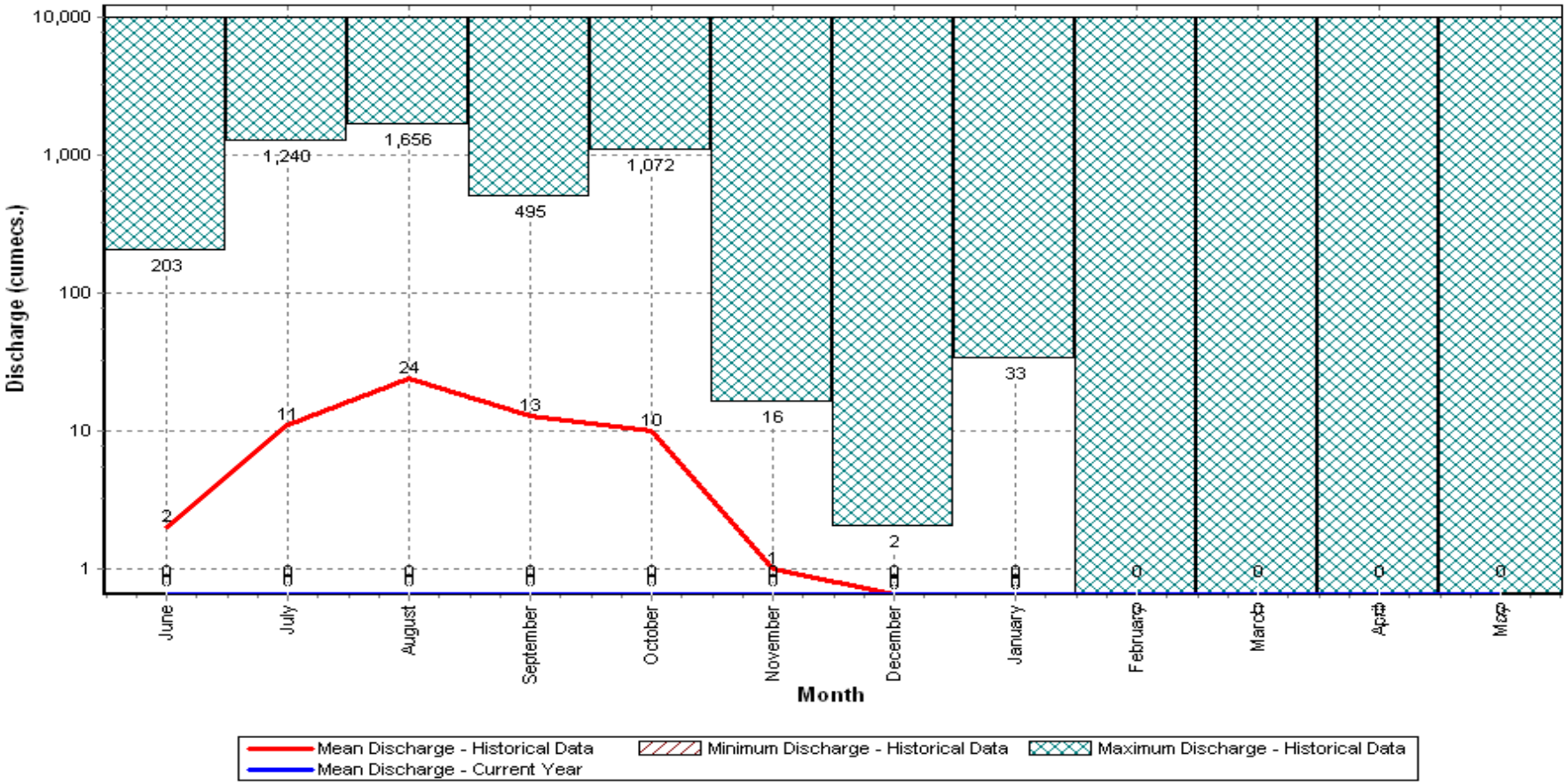
Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016

Station Name : Gandlapet (AGM00G6) **Data considered : 1987-2016** **Division : U Godavari Div., Hyderabad**

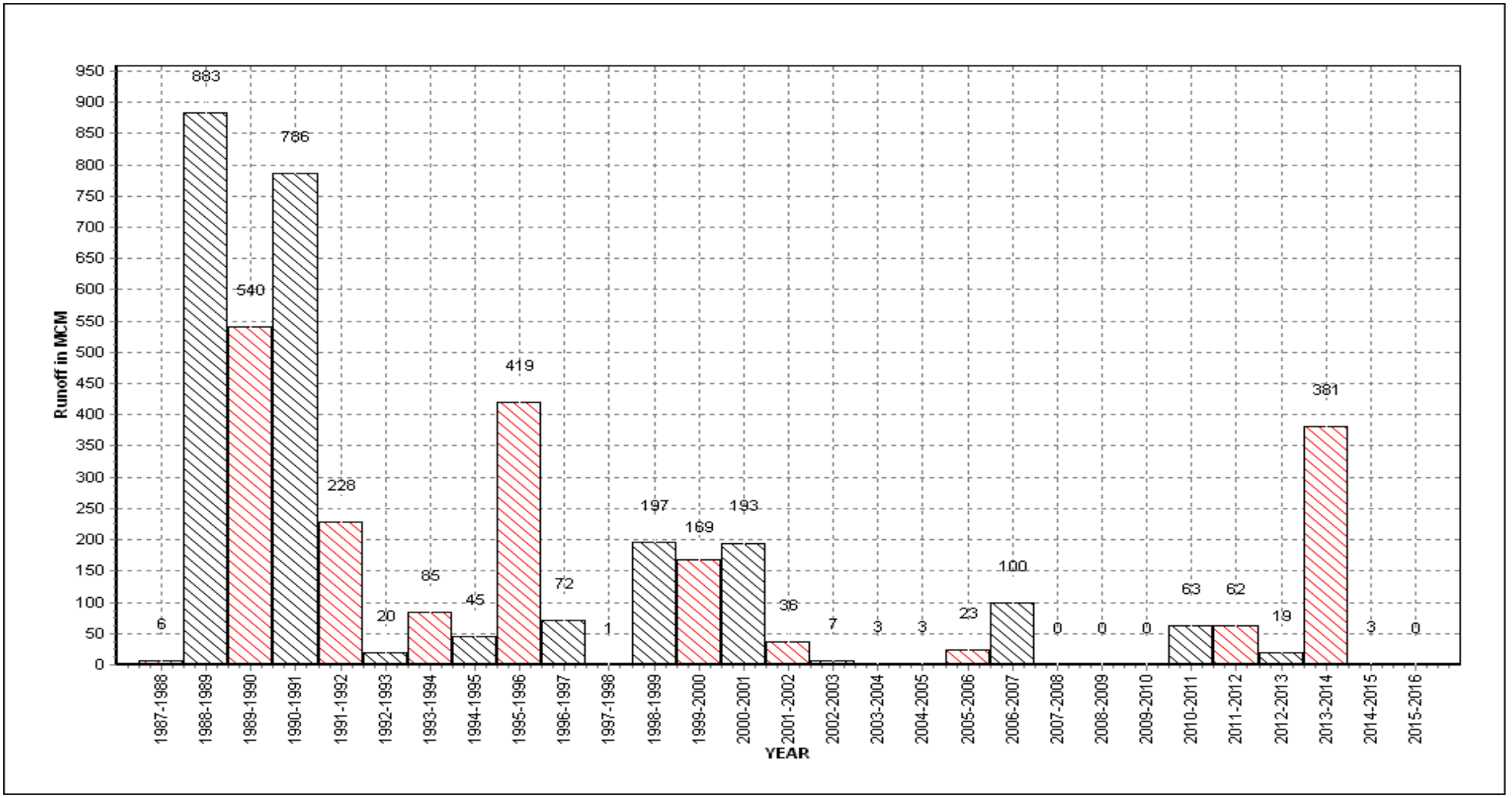
Local River : Peddavagu **Sub-Division : Manjira SD, Nizamabad**



Annual Runoff Values for the period: 1987 - 2016

Station Name : Gandlapet (AGM00G6)
Local River : Peddavagu

Division : U Godavari Div., Hyderabad
Sub-Division : Manjira SD, Nizamabad



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

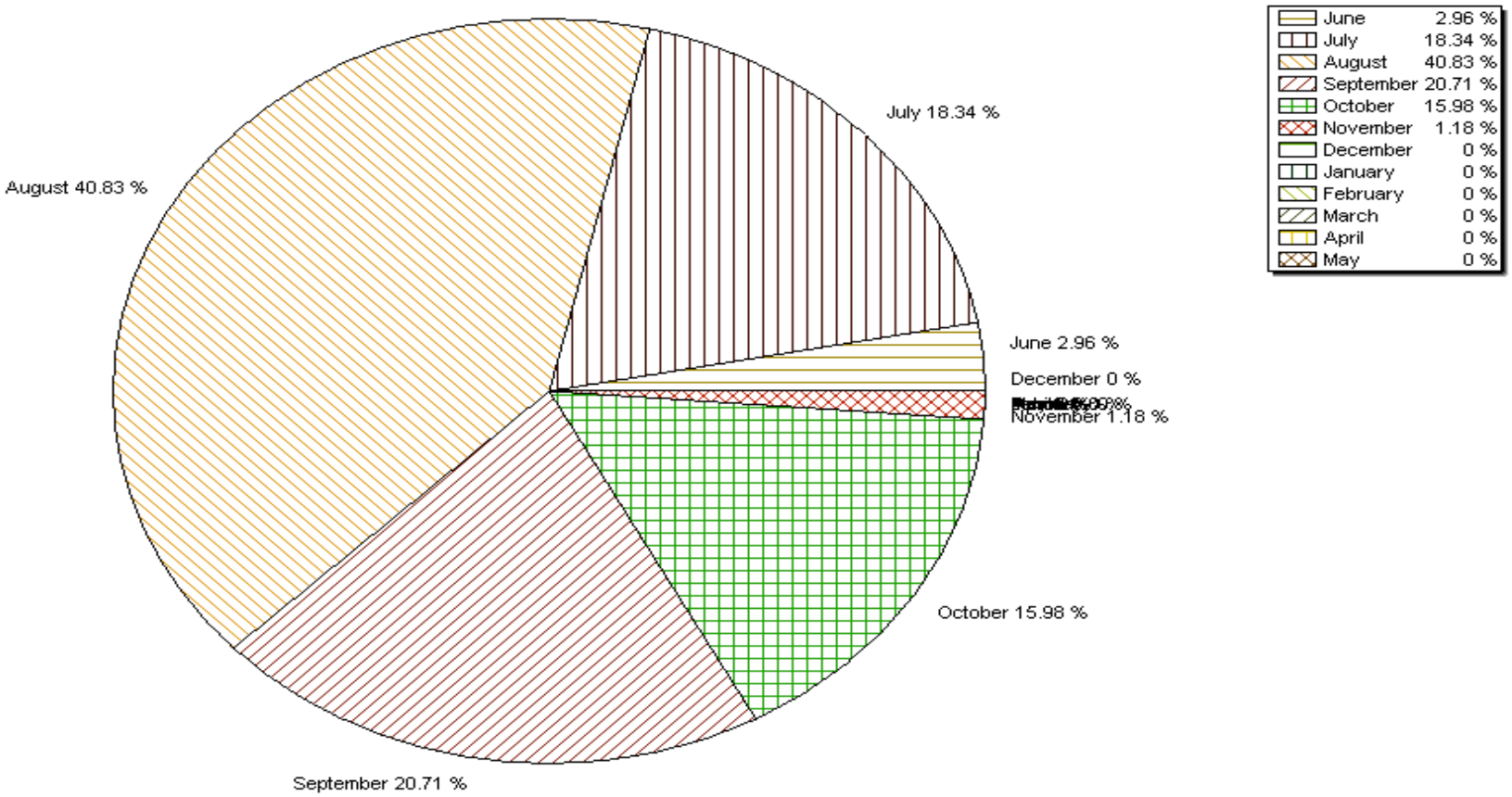
Monthly Average Runoff based on period : 1987-2015

Station Name : Gandlapet (AGM00G6)

Local River : Peddavagu

Division : U Godavari Div., Hyderabad

Sub-Division : Manjira SD, Nizamabad



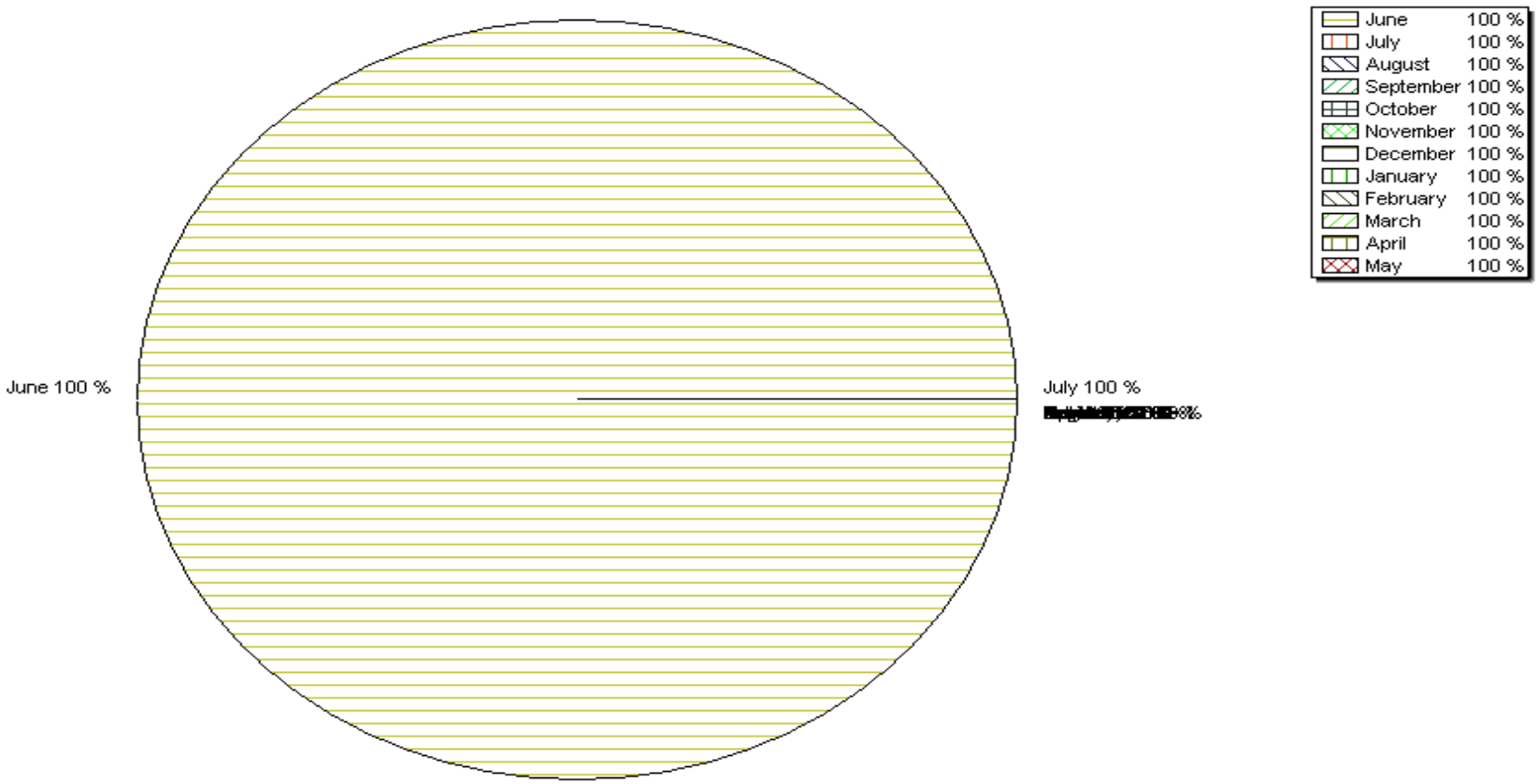
Monthly Runoff for the Year : 2015-2016

Station Name : Gandlapet (AGM00G6)

Local River : Peddavagu

Division : U Godavari Div., Hyderabad

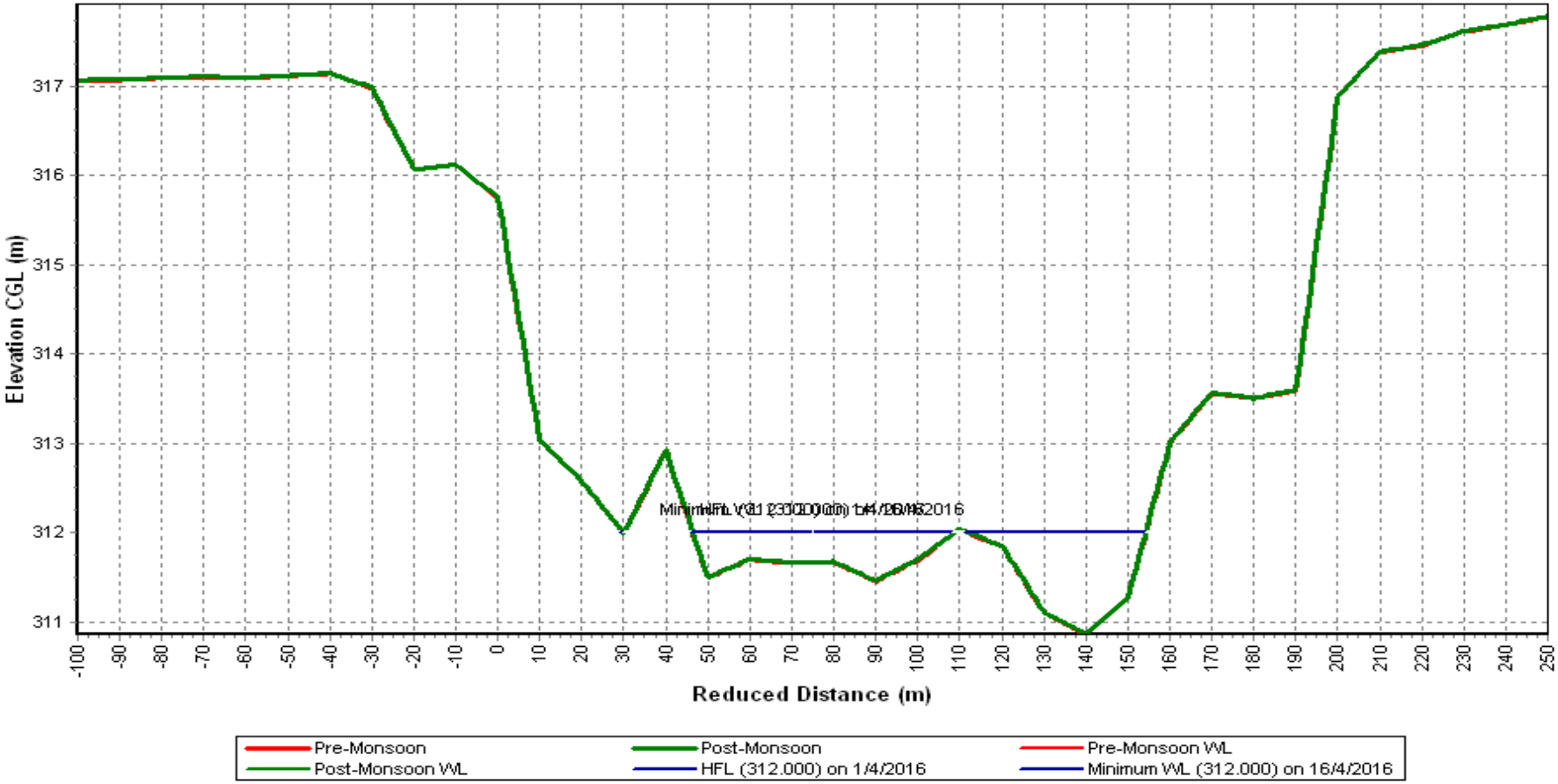
Sub-Division : Manjira SD, Nizamabad



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

Station Name : Gandlapet (AGM00G6) **Division : U Godavari Div., Hyderabad**

Local River : Peddavagu **Sub-Division : Manjira SD, Nizamabad**



HISTORY SHEET

Water Year : 2015-2016

Site	:	**Betmogrra**	**Code**	:	**AGP10F7**
State	:	Maharashtra	District		Nanded
Basin	:	Godavari	Independent River	:	Godavari
Tributary	:	Manjera	Sub Tributary	:	
Sub-Sub Tributary	:	-	Local River	:	Maner/Godavari
Division	:	U Godavari Div., Hyderabad	Sub-Division	:	Manjira SD, Nizamabad
Drainage Area	:	2105 Sq. Km.	Bank	:	
Latitude	:	18°42'18"	Longitude	:	77°32'42"
Zero of Gauge (m)	:	347.500 (m.s.l)	6/1/1997		-
		Opening Date	Closing Date		
Gauge	:	6/1/1997	**HFL During 2014-15**	:	**350.2**
			Corres.Discharge	:	**0.000cumecs(No flow)**
Discharge	:	7/3/1997	**Date & Time of**	:	**6/14/2015**
			Occurance	:	**08.00 hrs.**
Sediment	:				
Water Quality	:	7/15/1997			

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	119.8	351.450	10/29/1997	0.000		4/30/1998
1998-1999	611.6	354.140	8/26/1998	0.000	348.640	2/19/1999
1999-2000	166.2	351.855	10/13/1999	0.000	348.590	3/10/2000
2000-2001	1074	355.675	8/25/2000	0.000		3/28/2001
2001-2002	1129	355.715	10/2/2001	0.000	348.640	1/11/2002
2002-2003	310.8	352.450	9/6/2002	0.000		1/22/2003
2003-2004	612.3	354.110	9/27/2003	0.000		3/22/2004
2004-2005	56.22	350.115	9/11/2004	0.000		1/10/2005
2005-2006	1212	356.200	10/16/2005	0.000	348.300	2/10/2006
2006-2007	547.1	354.290	8/5/2006	0.000	348.430	2/26/2007
2007-2008	133.2	350.845	9/6/2007	0.000	348.420	12/20/2007
2008-2009	65.81	350.280	9/12/2008	0.000		1/25/2009
2009-2010	0.000		10/4/2009	0.000		1/25/2010
2010-2011	909.1	355.510	8/26/2010	0.000	348.560	4/25/2011
2011-2012	606.6	354.335	8/27/2011	0.000	348.490	3/21/2012
2012-2013	11.05	349.380	10/3/2012	0.000		11/30/2012
2013-2014	236.5	351.900	8/18/2013	0.000	348.530	1/27/2014
2014-2015	149.6	350.920	8/27/2014	0.000	347.500	1/25/2015

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

Stage-Discharge Data for the period 2015 - 2016

Station Name : Betmogrra (AGP10F7) **Division : U Godavari Div., Hyderabad**

Local River : Maner/Godavari **Sub-Division : Manjira SD, Nizamabad**

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	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
2	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
3	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
4	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
5	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
6	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
7	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
8	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
9	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
10	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
11	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
12	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
13	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
14	350.200	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
15	348.750	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
16	348.470	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
17	348.620	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
18	348.460	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
19	348.020	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
20	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
21	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
22	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
23	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
24	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
25	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
26	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
27	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
28	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
29	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
30	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
31			347.500	0.000	347.500	0.000			347.500	0.000		
Ten-Daily Mean												
I Ten-Daily	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
II Ten-Daily	348.252	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
III Ten-Daily	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
Monthly												
Min.	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
Max.	350.200	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
Mean	347.751	0	347.500	0	347.500	0	347.500	0	347.500	0	347.500	0

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

Peak Observed Discharge = 0.000 cumecs on 01/06/2015 Corres. Water Level :347.5 m

Lowest Observed Discharge = 0.000 cumecs on 01/06/2015 Corres. Water Level :347.5 m

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 : Betmogrra (AGP10F7) **Division : U Godavari Div., Hyderabad**

Local River : Maner/Godavari **Sub-Division : Manjira SD, Nizamabad**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
2	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
3	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
4	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
5	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
6	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
7	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
8	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
9	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
10	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
11	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
12	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
13	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
14	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
15	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
16	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
17	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
18	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
19	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
20	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
21	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
22	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
23	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
24	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
25	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
26	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
27	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
28	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
29	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
30	347.500	0.000	347.500	0.000			347.500	0.000	347.500	0.000	347.500	0.000
31	347.500	0.000	347.500	0.000			347.500	0.000			347.500	0.000
en-Daily Mea												
I Ten-Daily	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
II Ten-Daily	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
III Ten-Daily	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
Monthly												
Min.	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
Max.	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000	347.500	0.000
Mean	347.500	0	347.500	0	347.500	0	347.500	0	347.500	0	347.500	0

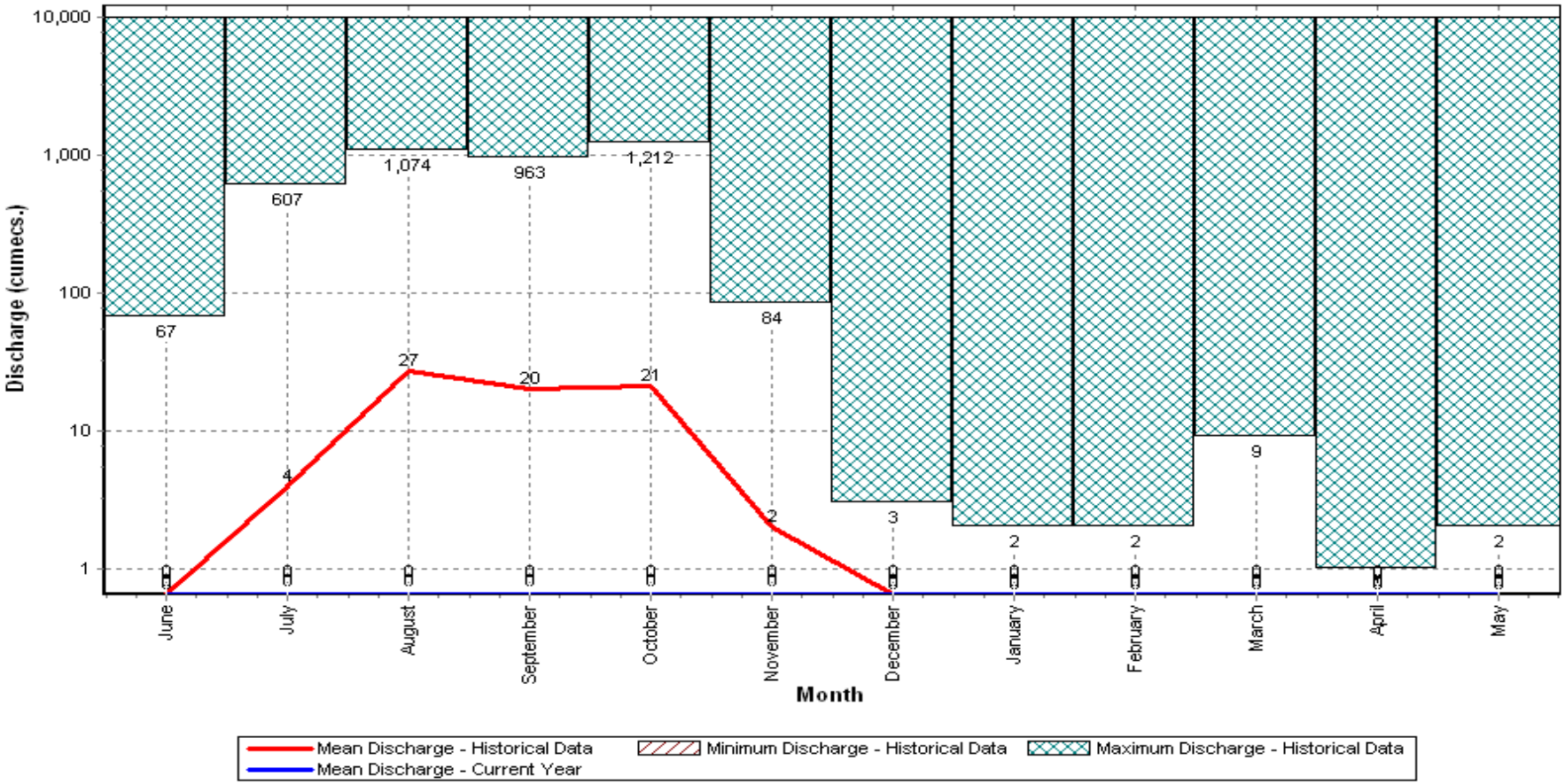
Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016

Station Name : Betmogrra (AGP10F7) | **Data considered : 1997-2016** | **Division : U Godavari Div., Hyderabad**

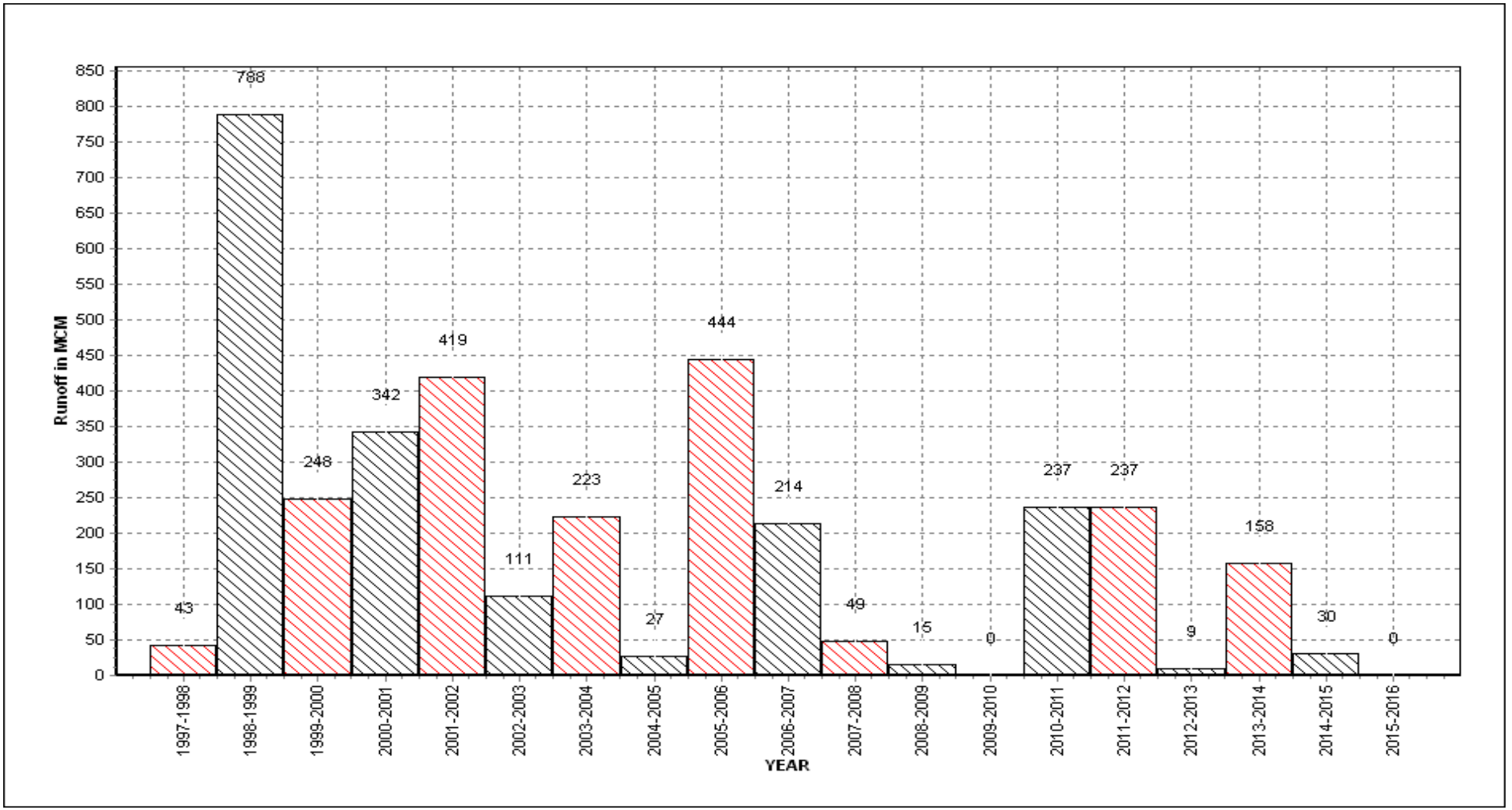
Local River : Maner/Godavari | **Sub-Division : Manjira SD, Nizamabad**



Annual Runoff Values for the period: 1997 - 2016

Station Name : Betmogrra (AGP10F7)
Division : U Godavari Div., Hyderabad

Local River : Maner/Godavari
Sub-Division : Manjira SD, Nizamabad



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

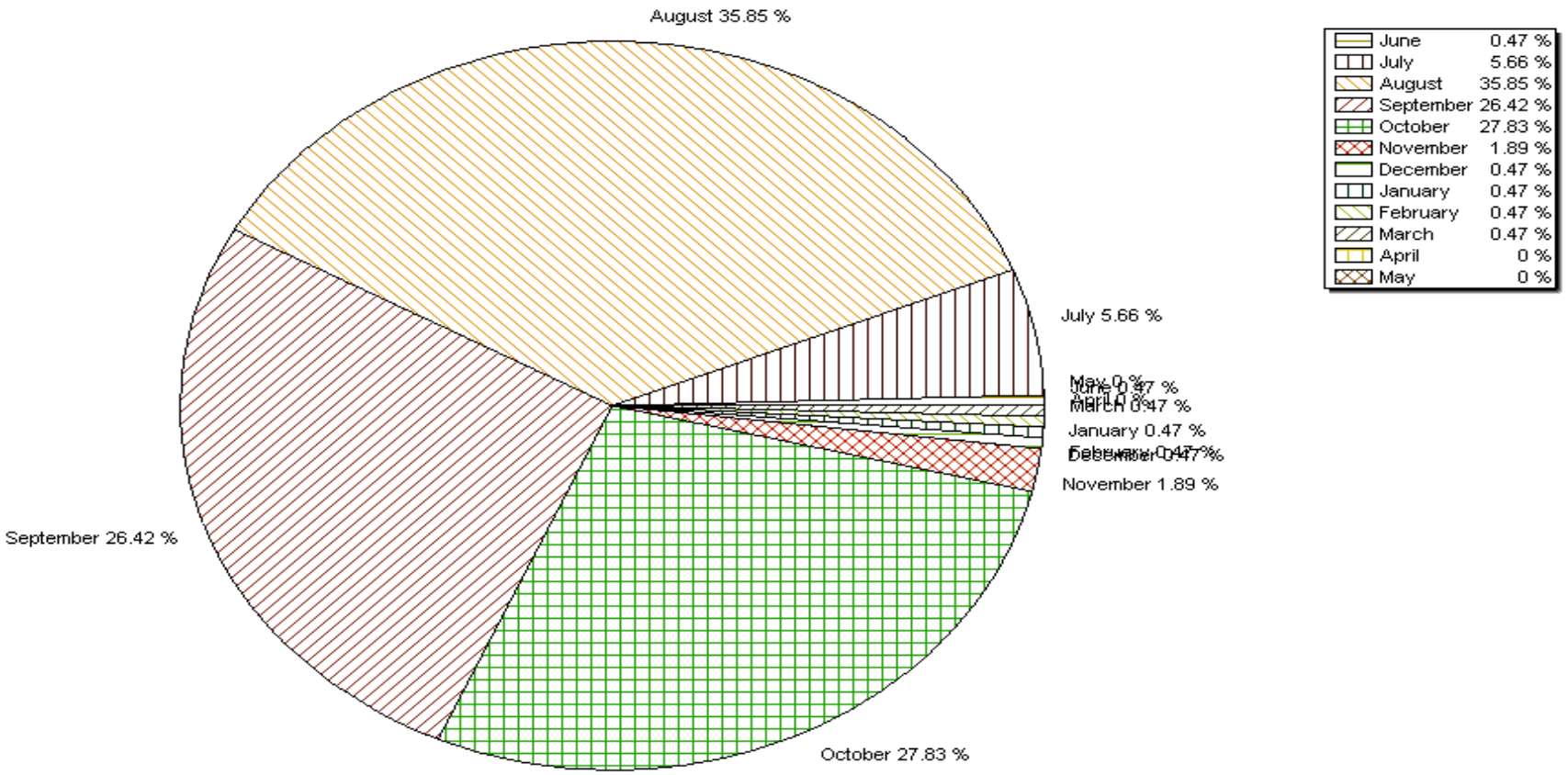
Monthly Average Runoff based on period : 1997-2015

Station Name : Betmogrra (AGP10F7)

Division : U Godavari Div., Hyderabad

Local River : Maner/Godavari

Sub-Division : Manjira SD, Nizamabad



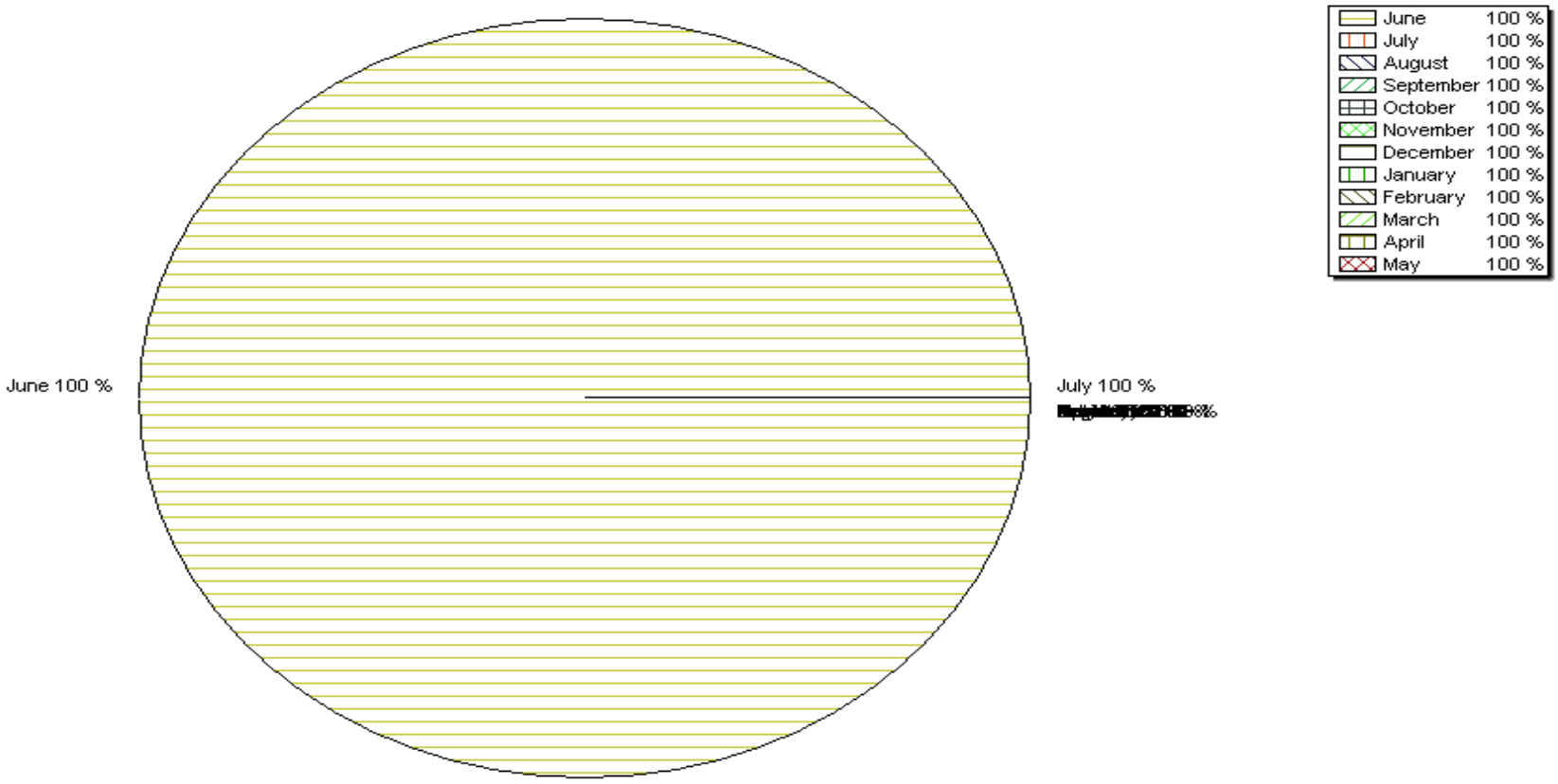
Monthly Runoff for the Year : 2015-2016

Station Name : Betmogrra (AGP10F7)

Local River : Maner/Godavari

Division : U Godavari Div., Hyderabad

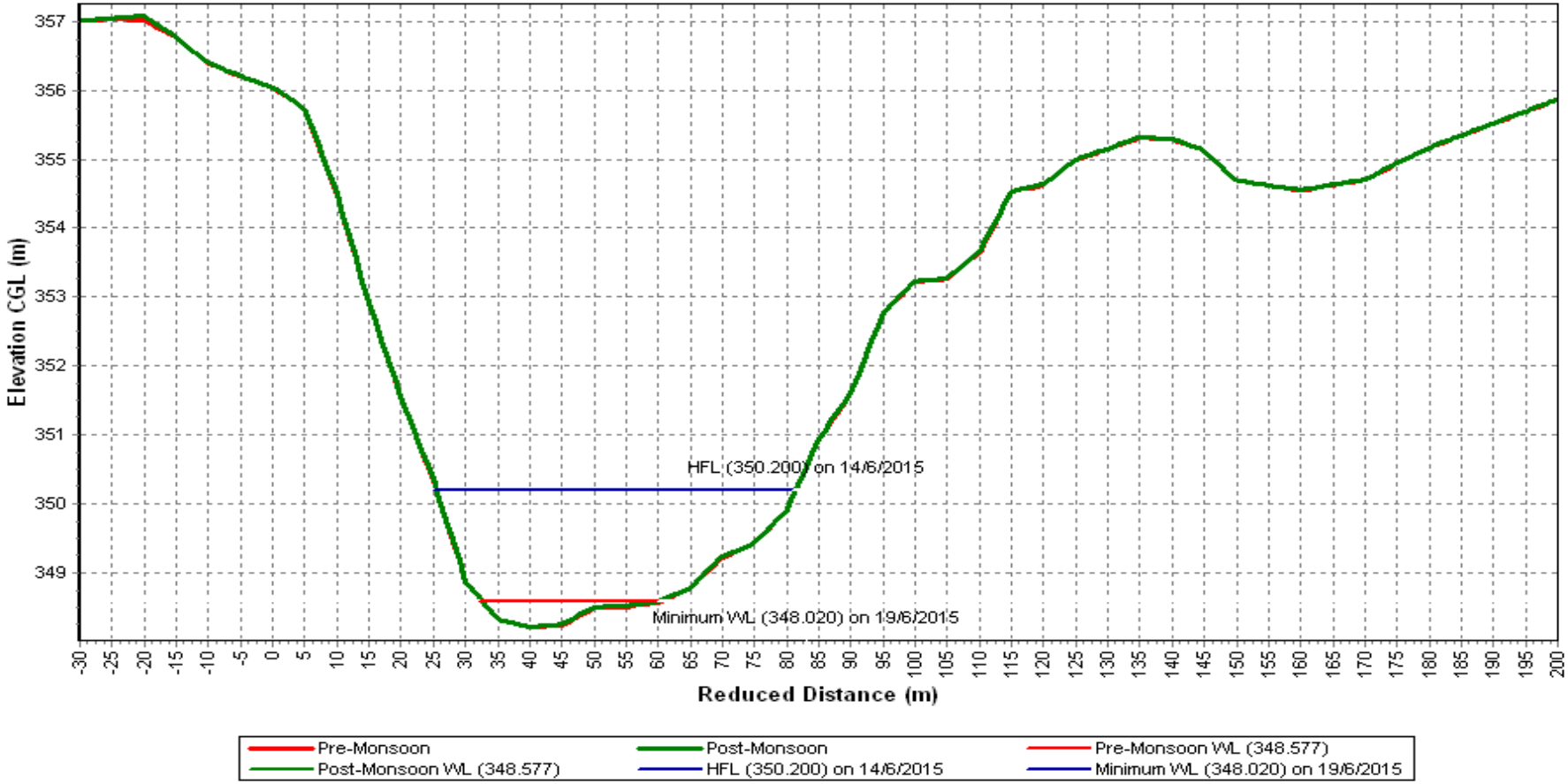
Sub-Division : Manjira SD, Nizamabad



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

Station Name : Betmogrra (AGP10F7) **Division : U Godavari Div., Hyderabad**

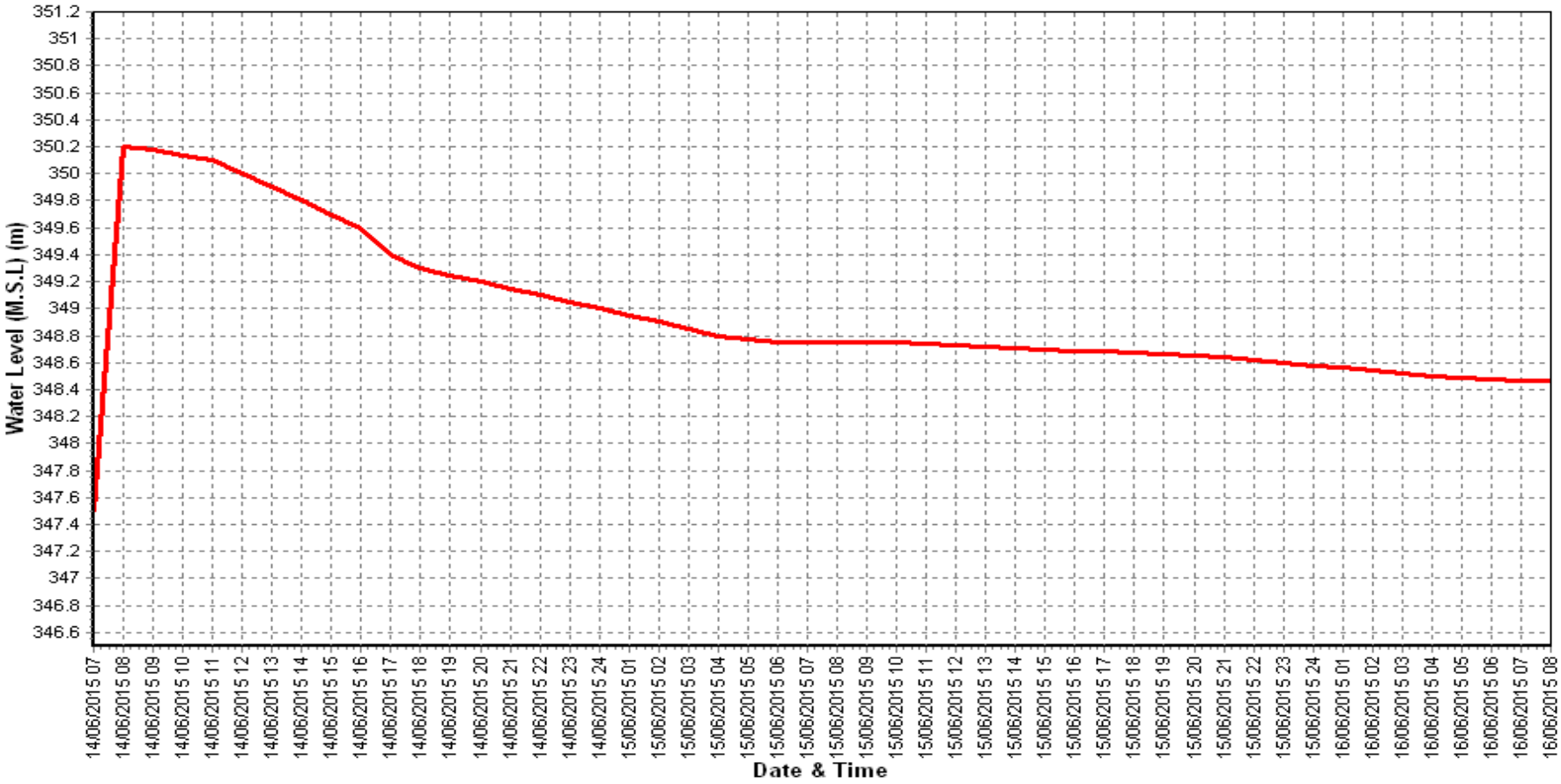
Local River : Maner/Godavari **Sub-Division : Manjira SD, Nizamabad**



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

Station Name : Betmogrra (AGP10F7) **Division : U Godavari Div., Hyderabad**

Local River : Maner/Godavari **Sub-Division : Manjira SD, Nizamabad**

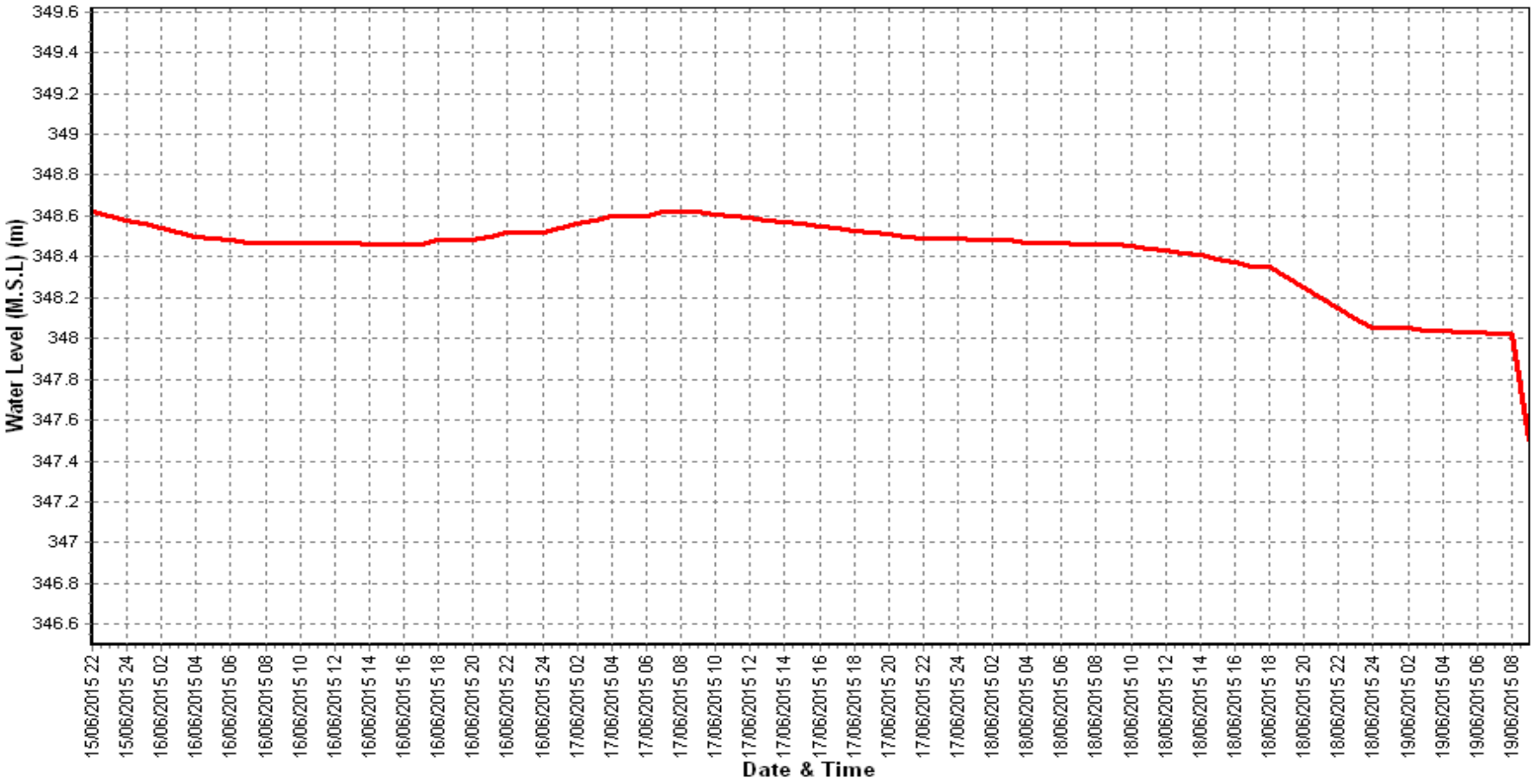


Time Span: 96 Hrs

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

Station Name : Betmogrra (AGP10F7) **Division : U Godavari Div., Hyderabad**

Local River : Maner/Godavari **Sub-Division : Manjira SD, Nizamabad**



Time Span: 96 Hrs

HISTORY SHEET

Water Year : 2015-2016

Site	:	**Degloor**	**Code**	:	**AGP20F4**
State	:	Maharashtra	District		Nanded
Basin	:	Godavari	Independent River	:	Godavari
Tributary	:	Manjira	Sub Tributary	:	-
Sub-Sub Tributary	:	-	Local River	:	Lendi
Division	:	U Godavari Div., Hyderabad	Sub-Division	:	Manjira SD, Nizamabad
Drainage Area	:	1900 Sq. Km.	Bank	:	Right
Latitude	:	18°33'43"	Longitude	:	77°34'56"
Zero of Gauge (m)	:	352.000 (m.s.l)	8/16/1984		-
		Opening Date	Closing Date		
Gauge	:	8/16/1984	**HFL During 2015-16**	:	**0(DRY BED)**
Discharge	:	7/17/1987	**Corres.Discharge**	:	**0.000cumecs(Observed)**
Sediment	:	1/1/1994			
Water Quality	:	9/15/1988			

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	1867	361.250	9/2/1988	0.000		5/12/1989
1989-1990	1103	360.205	7/24/1989	0.000		3/2/1990
1990-1991	1678	361.045	8/16/1990	0.000		2/16/1991
1991-1992	215.9	355.985	7/11/1991	0.000		1/26/1992
1992-1993	329.4	356.865	9/2/1992	0.000		1/25/1993
1993-1994	126.6	355.150	10/19/1993	0.000		2/9/1994
1994-1995	47.58	354.380	8/31/1994	0.000		1/15/1995
1995-1996	1990	362.320	10/19/1995	0.000		2/23/1996
1996-1997	651.5	358.645	9/8/1996	0.000	352.800	3/27/1997
1997-1998	318.1	356.500	10/29/1997	0.000	352.760	1/22/1998
1998-1999	731.8	359.400	8/10/1998	0.000	352.650	2/11/1999
1999-2000	265.6	356.275	8/2/1999	0.000		1/26/2000
2000-2001	2732	363.850	8/24/2000	0.000		1/25/2001
2001-2002	358.1	356.860	8/5/2001	0.000		2/8/2002
2002-2003	135.5	355.120	8/25/2002	0.000		1/25/2003
2003-2004	1812	361.585	8/21/2003	0.000		1/26/2004
2004-2005	1000	358.815	7/30/2004	0.000	352.150	1/25/2005
2005-2006	1426	360.235	9/21/2005	0.000		7/1/2005
2006-2007	1743	361.280	8/5/2006	0.000	352.620	12/24/2006
2007-2008	90.61	354.750	9/23/2007	0.000	352.510	1/26/2008
2008-2009	94.79	354.720	8/10/2008	0.000	352.380	1/25/2009
2009-2010	121.5	355.270	10/4/2009	0.000		1/25/2010

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**
2010-2011	1110	359.800	8/26/2010	0.000	353.580	1/25/2011
2011-2012	441.3	357.900	8/1/2011	0.000	352.720	1/23/2012
2012-2013	541.2	358.500	10/3/2012	0.000	352.590	4/27/2013
2013-2014	199.1	355.390	7/23/2013	0.000	352.720	2/14/2014
2014-2015	102.9	354.970	8/31/2014	0.000	352.000	1/25/2015

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

Stage-Discharge Data for the period 2015 - 2016

Station Name : Degloor (AGP20F4) **Division : U Godavari Div., Hyderabad**

Local River : Lendi **Sub-Division : Manjira SD, Nizamabad**

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	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000
2	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000
3	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000
4	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000
5	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000
6	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000
7	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000
8	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000 *
9	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000
10	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000
11	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000
12	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000
13	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000
14	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000
15	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000
16	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000
17	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000
18	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000
19	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000
20	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000
21	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000
22	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000
23	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000
24	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000
25	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000
26	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000
27	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000
28	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000
29	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000
30	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000
31			352.000	0.000	352.000	0.000			352.000	0.000		
en-Daily Mean												
I Ten-Daily	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000
II Ten-Daily	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000
III Ten-Daily	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000
Monthly												
Min.	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000
Max.	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000
Mean	352.000	0	352.000	0	352.000	0	352.000	0	352.000	0	352.000	0

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

Peak Observed Discharge = 0.000 cumecs on 01/06/2015 Corres. Water Level :352 m

Lowest Observed Discharge = 0.000 cumecs on 01/06/2015 Corres. Water Level :352 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

Stage-Discharge Data for the period 2015 - 2016

Station Name : Degloor (AGP20F4) **Division : U Godavari Div., Hyderabad**

Local River : Lendi **Sub-Division : Manjira SD, Nizamabad**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000
2	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000
3	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000
4	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000
5	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000
6	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000
7	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000
8	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000
9	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000
10	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000
11	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000
12	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000
13	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000
14	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000
15	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000
16	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000
17	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000
18	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000
19	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000
20	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000
21	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000
22	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000
23	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000
24	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000
25	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000
26	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000
27	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000
28	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000
29	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000
30	352.000	0.000	352.000	0.000			352.000	0.000	352.000	0.000	352.000	0.000
31	352.000	0.000	352.000	0.000			352.000	0.000			352.000	0.000
en-Daily Mea												
I Ten-Daily	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000
II Ten-Daily	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000
III Ten-Daily	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000
Monthly												
Min.	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000
Max.	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000	352.000	0.000
Mean	352.000	0	352.000	0	352.000	0	352.000	0	352.000	0	352.000	0

Peak Computed Discharge = 0.000 cumecs on 08/11/2015 Corres. Water Level :352 m

Lowest Computed Discharge = 0.000 cumecs on 08/11/2015 Corres. Water Level :352 m

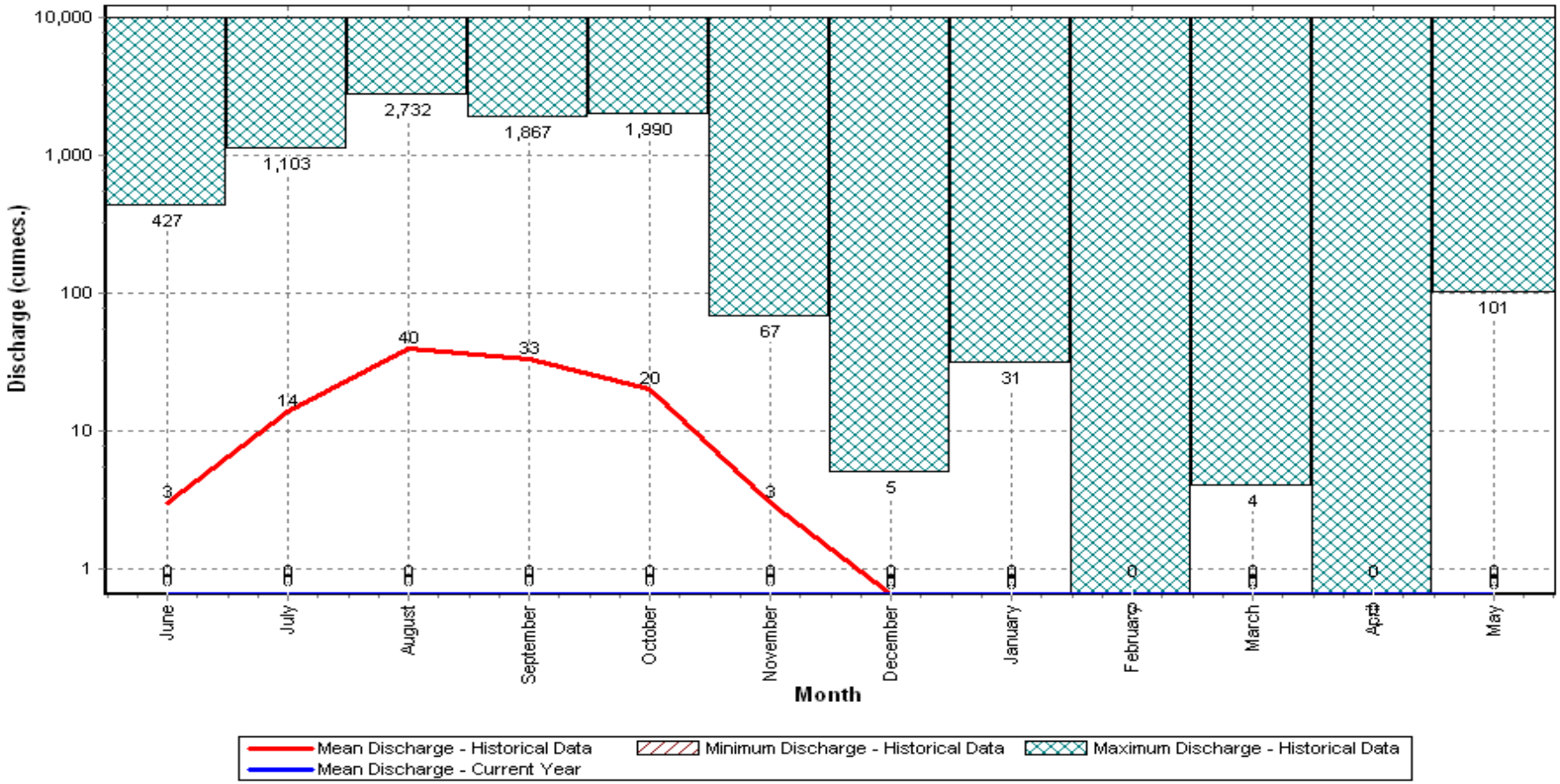
Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016

Station Name : Degloor (AGP20F4) | **Data considered : 1988-2016** | **Division : U Godavari Div., Hyderabad**

Local River : Lendi | **Sub-Division : Manjira SD, Nizamabad**


10,000
1,000
100
10
1
Discharge (cumecs.)
427
1,103
2,732
1,867
1,990
67
5
31
0
4
0
101
3
14
40
33
20
3
0
0
0

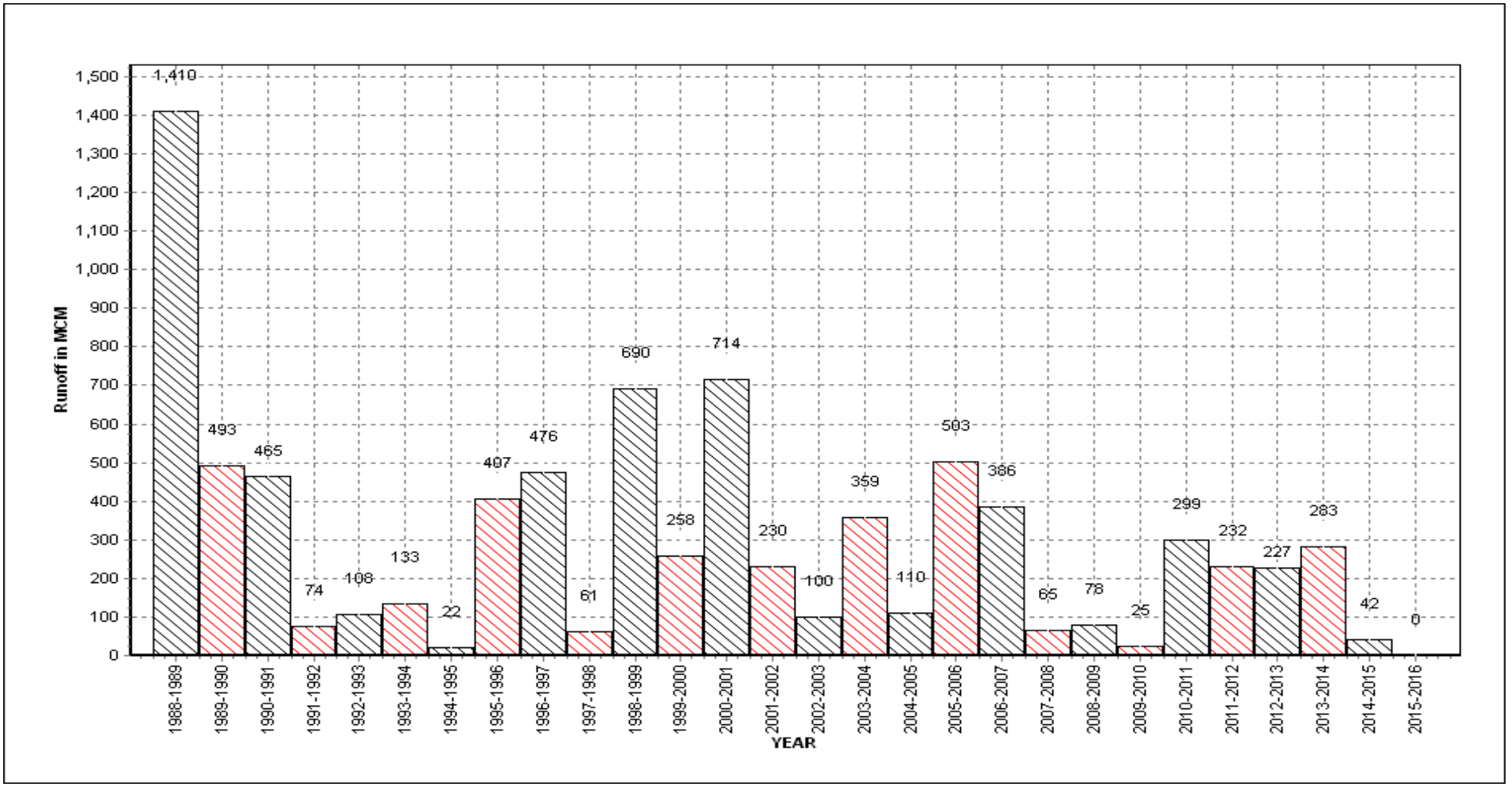
Annual Runoff Values for the period: 1988 - 2016

Station Name : Degloor (AGP20F4)

Local River : Lendi

Division : U Godavari Div., Hyderabad

Sub-Division : Manjira SD, Nizamabad



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

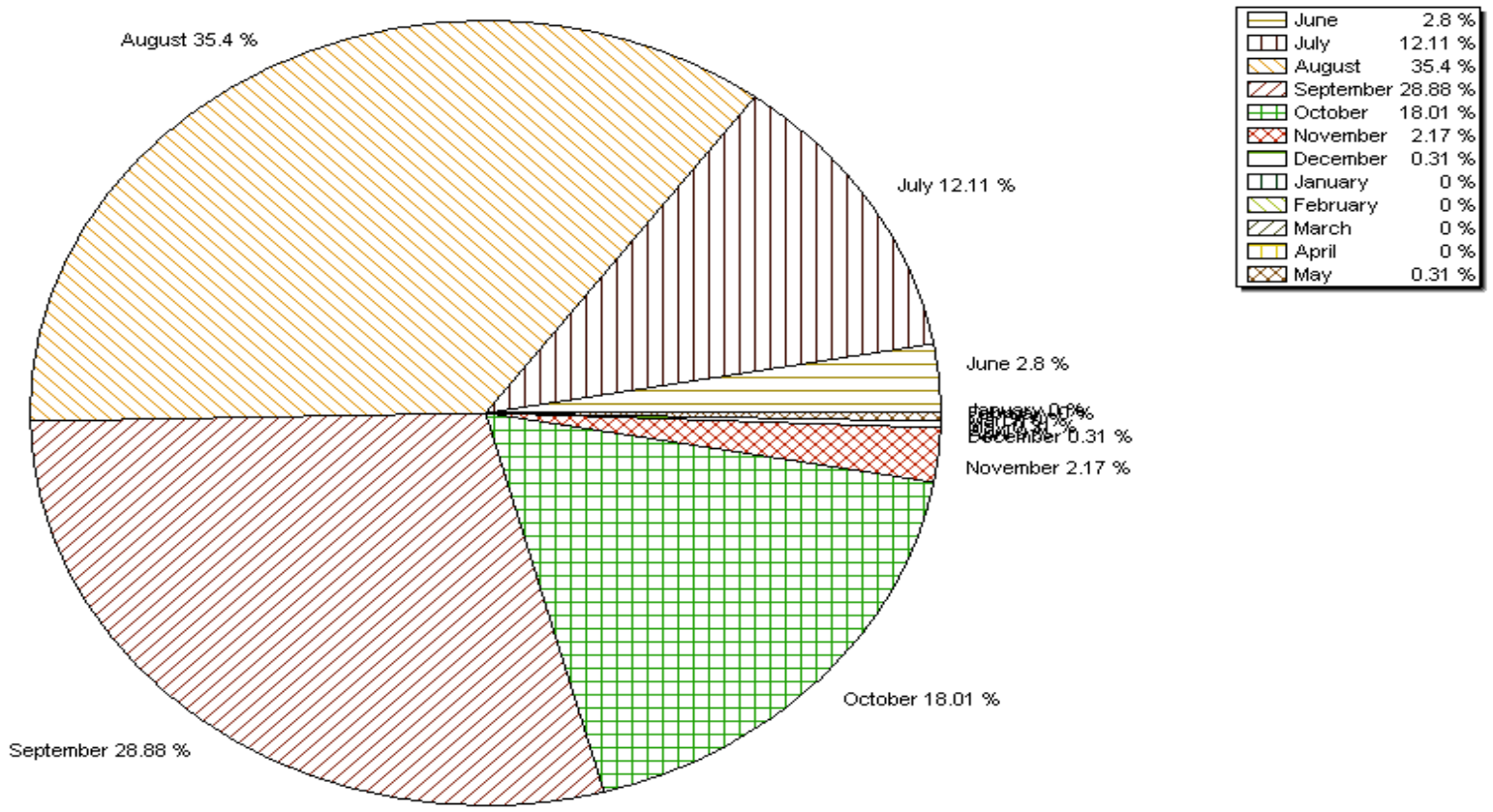
Monthly Average Runoff based on period : 1988-2015

Station Name : Degloor (AGP20F4)

Local River : Lendi

Division : U Godavari Div., Hyderabad

Sub-Division : Manjira SD, Nizamabad



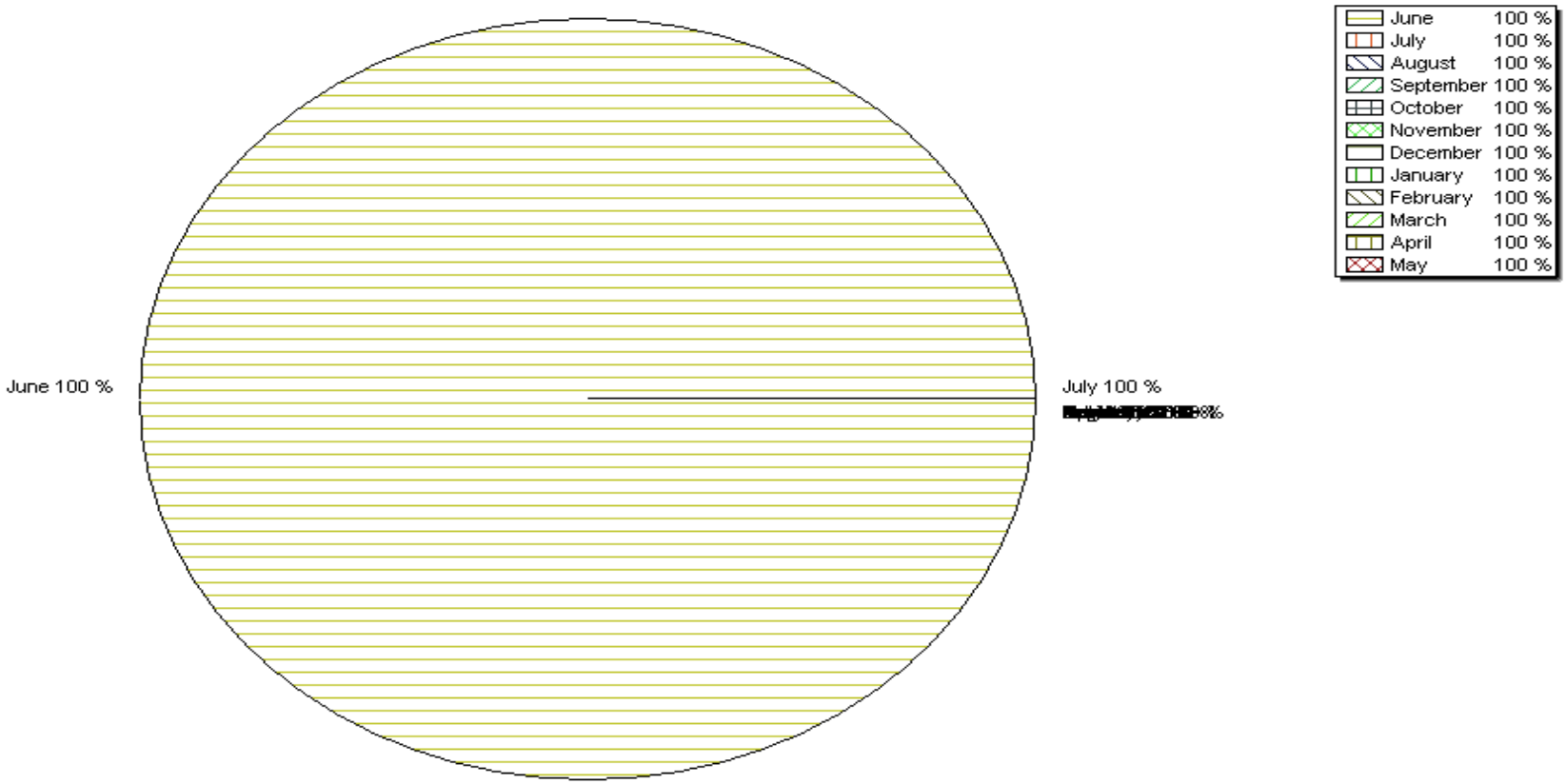
Monthly Runoff for the Year : 2015-2016

Station Name : Degloor (AGP20F4)

Local River : Lendi

Division : U Godavari Div., Hyderabad

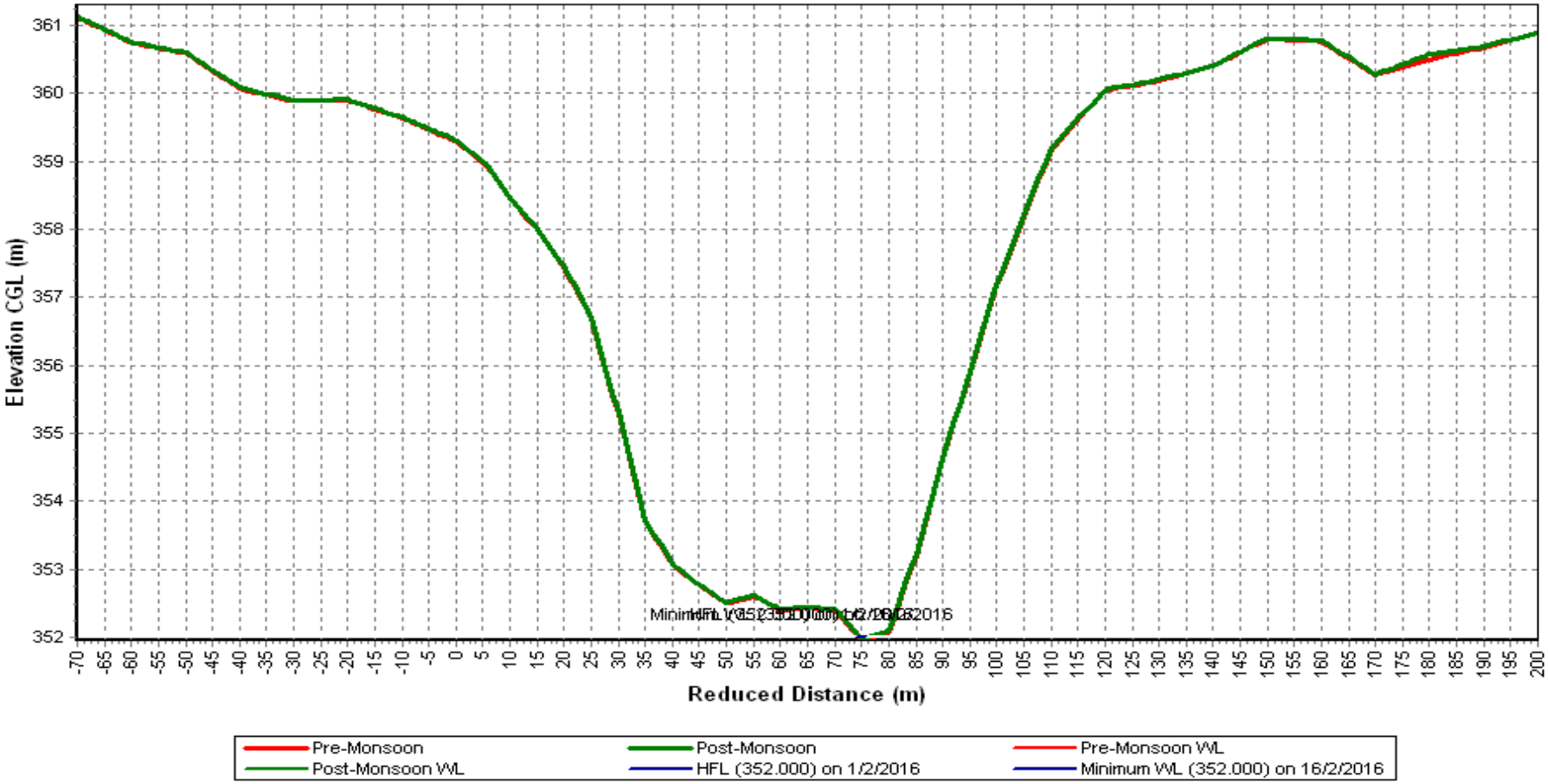
Sub-Division : Manjira SD, Nizamabad



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

Station Name : Degloor (AGP20F4) **Division : U Godavari Div., Hyderabad**

Local River : Lendi **Sub-Division : Manjira SD, Nizamabad**



HISTORY SHEET

			Water Year	:	**2015-2016**
Site	:	**Saigaon**	**Code**	:	**AGP00N8**
State	:	Karnataka	District		Bidar
Basin	:	Godavari	Independent River	:	Godavari
Tributary	:	Manjera	Sub Tributary	:	-
Sub-Sub Tributary	:	-	Local River	:	Manjera/Godavari
Division	:	U Godavari Div., Hyderabad	Sub-Division	:	Manjira SD, Nizamabad
Drainage Area	:	9960 Sq. Km.	Bank	:	Right
Latitude	:	18°04'33"	Longitude	:	77°03'09"
Zero of Gauge (m)	:	542.723 (m.s.l)	8/1/1964		-
		Opening Date	Closing Date		
Gauge	:	8/1/1964	**HFL During 2014-15**	:	**544.623**
			Corres.Discharge	:	**281.954 cumecs(Estimated)**
Discharge	:	11/10/1967	**Date & Time of**	:	**6/14/2015**
			Occurance	:	**08.00 hrs.**
Sediment	:	7/19/1973			
Water Quality	:	8/16/1973			

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

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1967-1968	1992	551.838	9/29/1967	0.000		6/10/1967
1968-1969	1169	550.096	10/2/1968	0.000		5/4/1969
1969-1970	2991	552.798	9/7/1969	0.000		5/8/1970
1970-1971	2716	553.143	9/20/1970	0.000		5/14/1971
1971-1972	899.1	549.308	8/25/1971	0.000		5/27/1972
1972-1973	325.2	546.238	6/24/1972	0.000		10/25/1972
1973-1974	856.8	548.683	7/2/1973	0.000		5/9/1974
1974-1975	613.9	548.233	10/24/1974	0.000		5/11/1975
1975-1976	1297	550.861	10/6/1975	0.000	543.303	5/17/1976
1976-1977	365.4	547.485	8/26/1976	0.000		4/22/1977
1977-1978	704.7	548.033	11/30/1977	0.000	543.113	5/5/1978
1978-1979	901.5	548.973	6/16/1978	0.000	543.013	4/16/1979
1979-1980	1125	550.308	9/28/1979	0.000	542.958	5/11/1980
1980-1981	791.7	549.003	8/24/1980	0.000	543.003	3/31/1981
1981-1982	676.0	548.708	9/18/1981	0.000	543.063	4/2/1982
1982-1983	462.2	547.593	9/22/1982	0.000	542.918	2/14/1983
1983-1984	3395	554.253	10/7/1983	0.000	543.093	5/7/1984
1984-1985	192.0	546.083	8/2/1984	0.000	543.233	1/12/1985
1985-1986	438.4	547.498	10/5/1985	0.000		1/25/1986
1986-1987	119.7	545.543	9/18/1986	0.000		1/25/1987
1987-1988	499.6	548.198	8/16/1987	0.000		2/22/1988
1988-1989	1760	552.073	9/30/1988	0.000		5/9/1989
1989-1990	1507	551.553	7/25/1989	0.000		3/13/1990
1990-1991	2697	554.443	8/17/1990	0.000	543.203	3/21/1991
1991-1992	1091	550.368	7/9/1991	0.000		1/26/1992
1992-1993	1219	550.643	9/3/1992	0.000		3/21/1993
1993-1994	335.9	546.923	10/22/1993	0.000	543.153	1/25/1994
1994-1995	91.42	545.048	6/14/1994	0.000		1/25/1995
1995-1996	318.4	546.998	10/20/1995	0.000		2/9/1996
1996-1997	2486	552.653	9/17/1996	0.000	543.023	2/21/1997
1997-1998	67.33	545.028	7/4/1997	0.000		12/30/1997
1998-1999	3285	553.693	10/17/1998	0.000		3/5/1999

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**
1999-2000	588.9	548.763	10/14/1999	0.000		2/8/2000
2000-2001	2858	553.483	8/26/2000	0.000	542.913	1/25/2001
2001-2002	822.7	548.863	10/1/2001	0.000	542.843	1/25/2002
2002-2003	87.51	545.388	8/24/2002	0.000	542.793	3/2/2003
2003-2004	277.3	546.558	8/25/2003	0.000	542.793	1/23/2004
2004-2005	169.0	546.543	7/31/2004	0.000		1/22/2005
2005-2006	1922	551.683	9/24/2005	0.000	542.793	2/7/2006
2006-2007	901.8	549.478	8/7/2006	0.000	542.983	1/25/2007
2007-2008	1206	549.658	9/20/2007	0.000		1/26/2008
2008-2009	2142	552.473	9/14/2008	0.000	542.773	12/19/2008
2009-2010	170.4	546.483	10/5/2009	0.000		1/25/2010
2010-2011	2012	552.008	8/26/2010	0.000		2/17/2011
2011-2012	803.2	549.273	8/27/2011	0.000		1/25/2012
2012-2013	275.8	546.933	9/4/2012	0.000		5/5/2013
2013-2014	160.0	546.223	7/20/2013	0.000		6/20/2013
2014-2015	45.33	546.113	8/31/2014	0.000	542.723	1/25/2015

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

Stage-Discharge Data for the period 2015 - 2016

Station Name : Saigaon (AGP00N8) **Division : U Godavari Div., Hyderabad**

Local River : Manjera/Godavari **Sub-Division : Manjira SD, Nizamabad**

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	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	543.063	0.000	542.723	0.000
2	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	543.043	0.000	542.723	0.000
3	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	543.033	0.000	542.723	0.000
4	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	543.013	0.000	542.723	0.000
5	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	543.003	0.000	542.723	0.000
6	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.983	0.000	542.723	0.000
7	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.973	0.000	542.723	0.000
8	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.963	0.000	542.723	0.000
9	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.963	0.000	542.723	0.000
10	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.933	0.000	542.723	0.000
11	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.923	0.000	542.723	0.000
12	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.903	0.000	542.723	0.000
13	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.883	0.000	542.723	0.000
14	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.853	0.000	542.723	0.000
15	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.843	0.000	542.723	0.000
16	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.803	0.000	542.723	0.000
17	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.763	0.000	542.723	0.000
18	542.723	0.000	542.723	0.000	542.723	0.000	543.373	0.104	542.743	0.000	542.723	0.000
19	542.723	0.000	542.723	0.000	542.723	0.000	543.428	1.647	542.723	0.000	542.723	0.000
20	542.723	0.000	542.723	0.000	542.723	0.000	543.283	0.131	542.723	0.000	542.723	0.000
21	542.723	0.000	542.723	0.000	542.723	0.000	543.263	0.145	542.723	0.000	542.723	0.000
22	542.723	0.000	542.723	0.000	542.723	0.000	543.123	0.000	542.723	0.000	542.723	0.000
23	542.723	0.000	542.723	0.000	542.723	0.000	543.123	0.000	542.723	0.000	542.723	0.000
24	542.723	0.000	542.723	0.000	542.723	0.000	543.123	0.000	542.723	0.000	542.723	0.000
25	542.723	0.000	542.723	0.000	542.723	0.000	543.123	0.000	542.723	0.000	542.723	0.000
26	542.723	0.000	542.723	0.000	542.723	0.000	543.123	0.000	542.723	0.000	542.723	0.000
27	542.723	0.000	542.723	0.000	542.723	0.000	543.123	0.000	542.723	0.000	542.723	0.000
28	542.723	0.000	542.723	0.000	542.723	0.000	543.103	0.000	542.723	0.000	542.723	0.000
29	542.723	0.000	542.723	0.000	542.723	0.000	543.083	0.000	542.723	0.000	542.723	0.000
30	542.723	0.000	542.723	0.000	542.723	0.000	543.073	0.000	542.723	0.000	542.723	0.000
31			542.723	0.000	542.723	0.000			542.723	0.000		
n-Daily Mean												
Ten-Daily	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.997	0.000	542.723	0.000
I Ten-Dail	542.723	0.000	542.723	0.000	542.723	0.000	542.915	0.188	542.816	0.000	542.723	0.000
I Ten-Dail	542.723	0.000	542.723	0.000	542.723	0.000	543.126	0.014	542.723	0.000	542.723	0.000
Monthly												
Min.	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000
Max.	542.723	0.000	542.723	0.000	542.723	0.000	543.428	1.647	543.063	0.000	542.723	0.000
Mean	542.723	0	542.723	0	542.723	0	542.921	0.068	542.841	0	542.723	0

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

Peak Observed Discharge = 1.647 cumecs on 19/09/2015 Corres. Water Level :543.428 m

Lowest Observed Discharge = 0.000 cumecs on 01/06/2015 Corres. Water Level :542.723 m

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 : Saigaon (AGP00N8) **Division : U Godavari Div., Hyderabad**

Local River : Manjera/Godavari **Sub-Division : Manjira SD, Nizamabad**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000
2	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000
3	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000
4	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000
5	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000
6	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000
7	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000
8	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000
9	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000
10	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000
11	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000
12	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000
13	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000
14	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000
15	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000
16	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000
17	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000
18	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000
19	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000
20	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000
21	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000
22	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000
23	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000
24	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000
25	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000
26	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000
27	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000
28	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000
29	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000
30	542.723	0.000	542.723	0.000			542.723	0.000	542.723	0.000	542.723	0.000
31	542.723	0.000	542.723	0.000			542.723	0.000			542.723	0.000
n-Daily Me												
Ten-Daily	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000
l Ten-Dail	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000
l Ten-Dail	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000
Monthly												
Min.	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000
Max.	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000	542.723	0.000
Mean	542.723	0	542.723	0	542.723	0	542.723	0	542.723	0	542.723	0

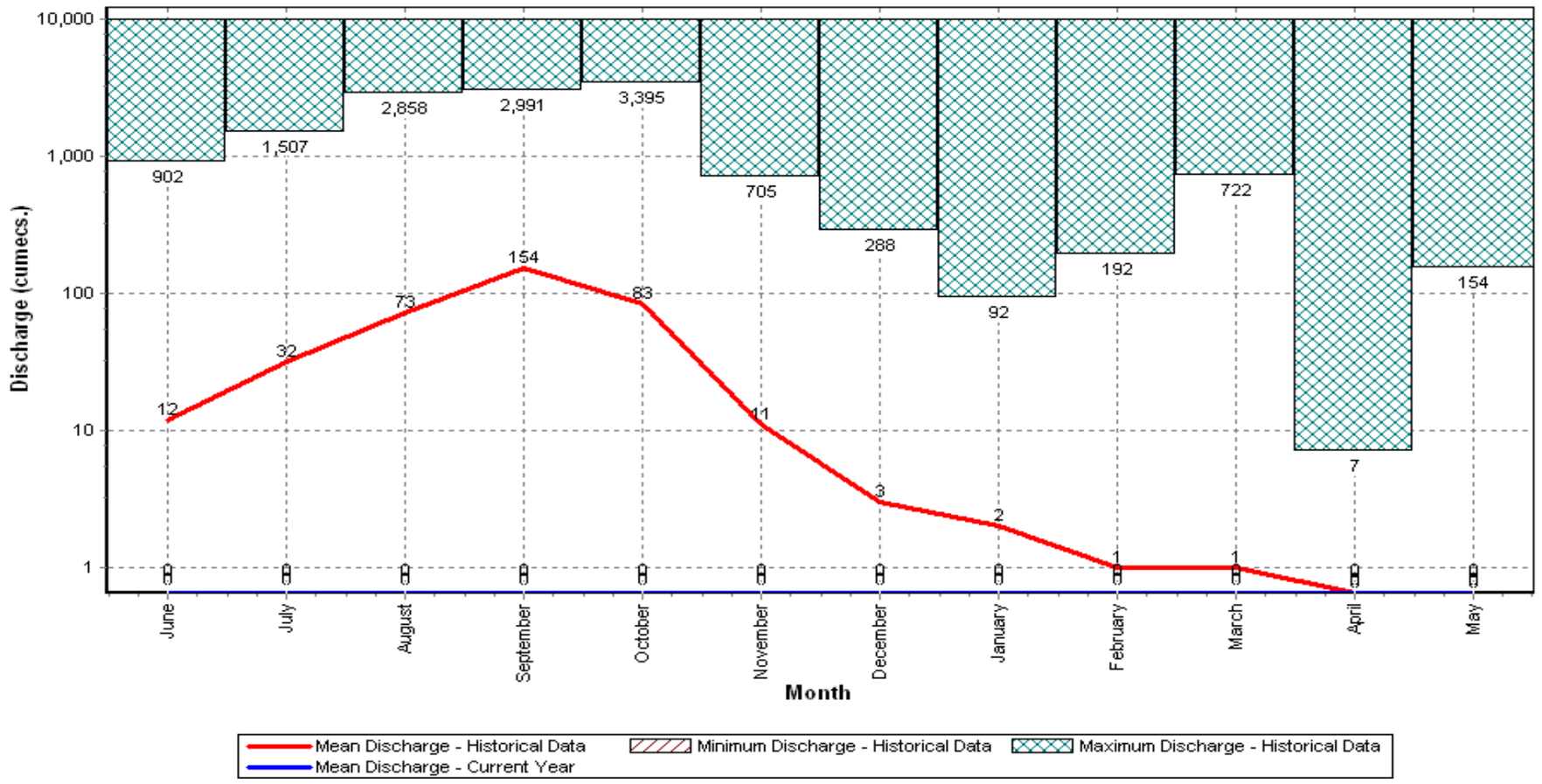
Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016

Station Name : Saigaon (AGP00N8) | **Data considered : 1967-2016** | **Division : U Godavari Div., Hyderabad**

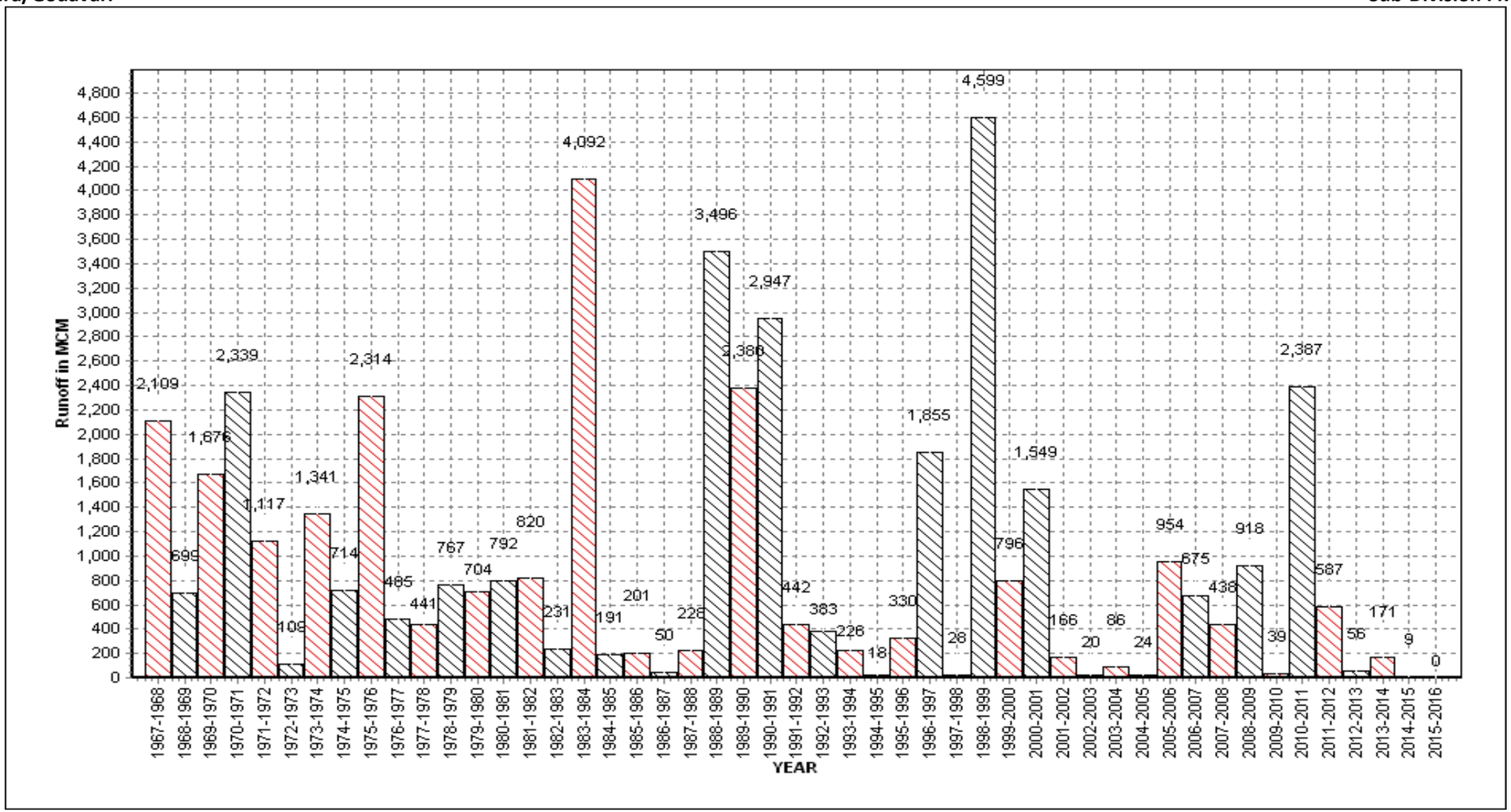
Local River : Manjera/Godavari | **Sub-Division : Manjira SD, Nizamabad**



Annual Runoff Values for the period: 1967 - 2016

Station Name : Saigaon (AGP00N8) **Division : U Godavari Div., Hyderabad**

Local River : Manjera/Godavari **Sub-Division : Manjira SD, Nizamabad**

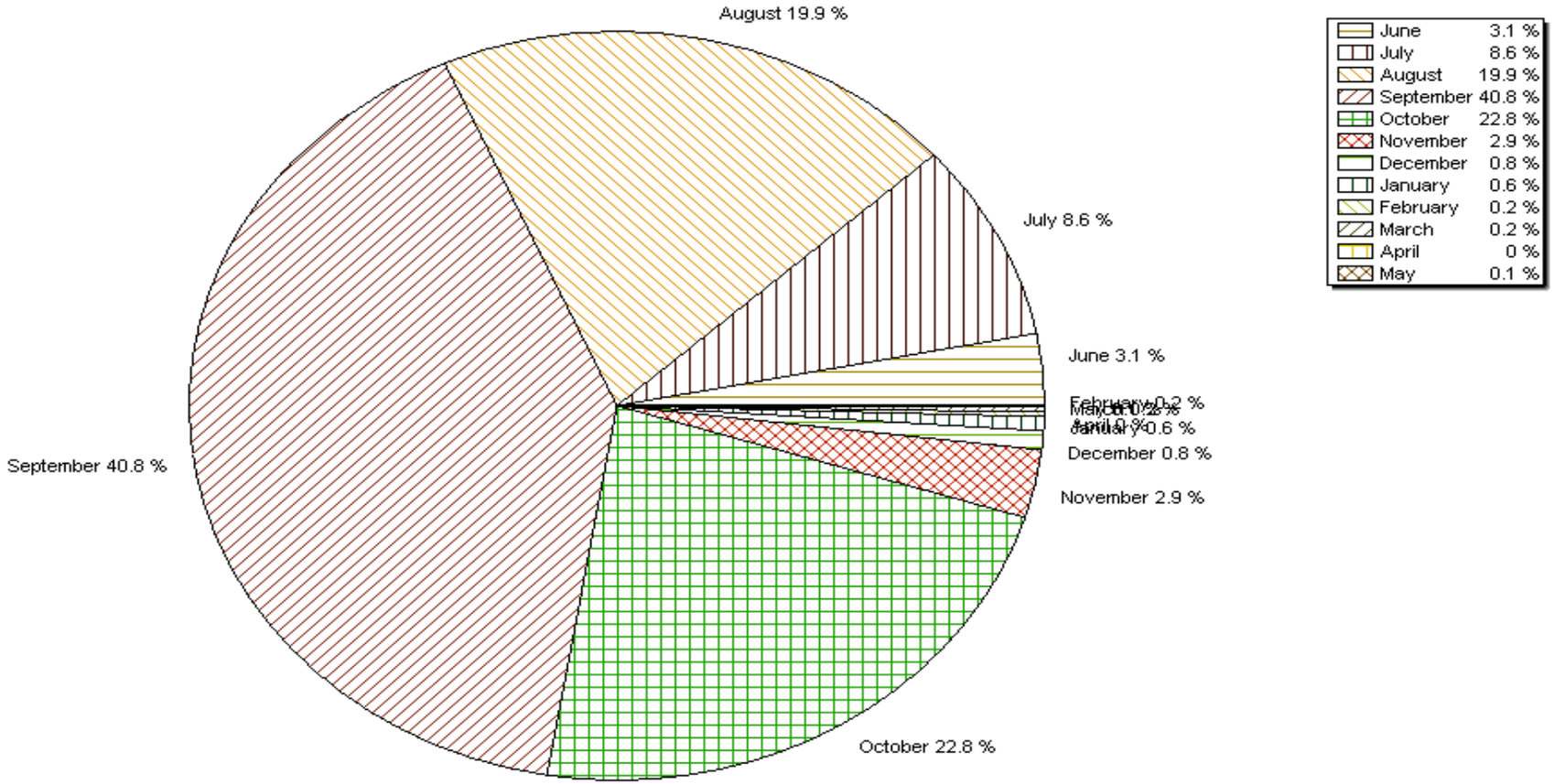


Note: Missing values have not been considered while arriving at Annual Runoff

Monthly Average Runoff based on period : 1967-2015

Station Name : Saigaon (AGP00N8)
Local River : Manjera/Godavari

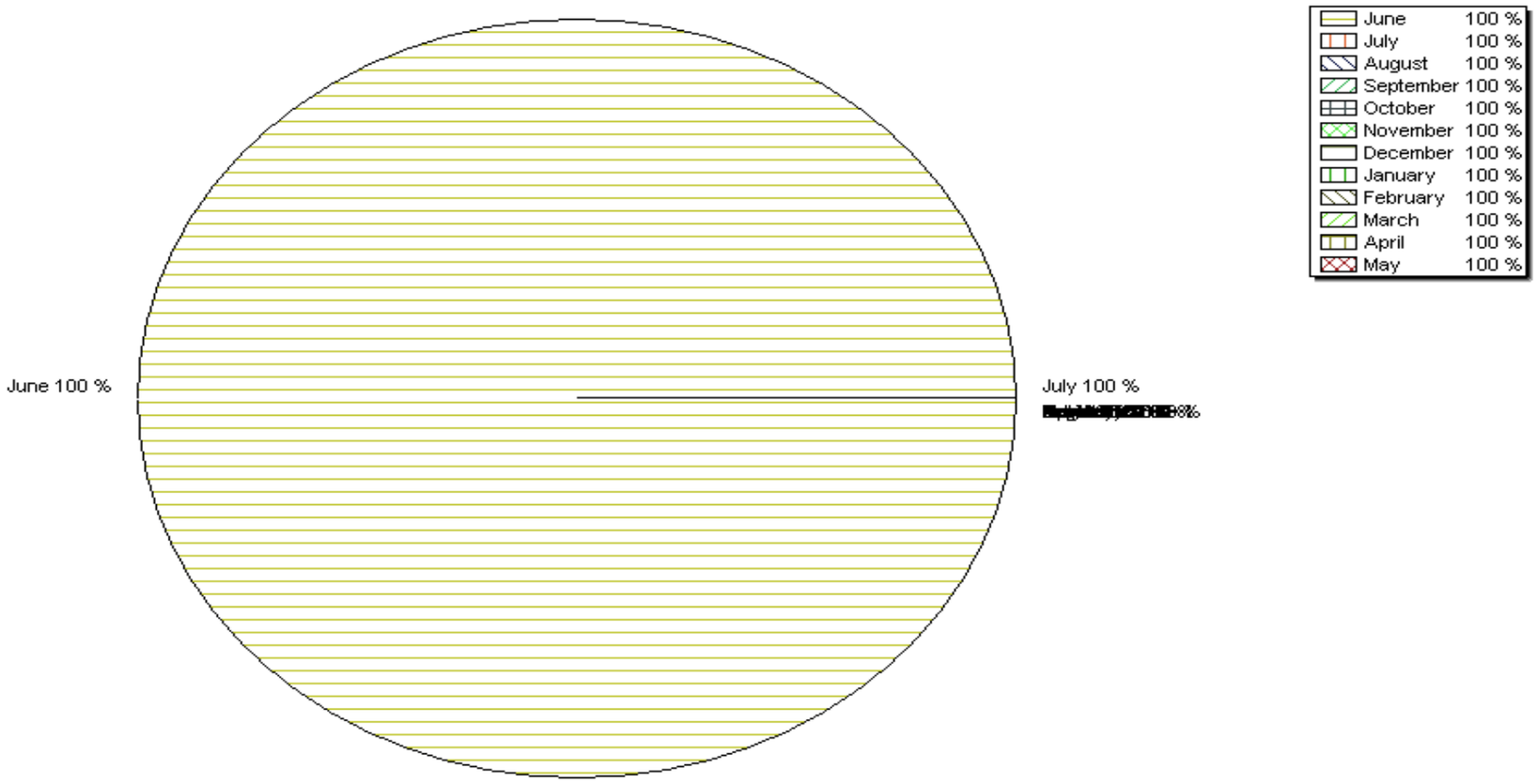
Division : U Godavari Div., Hyderabad
Sub-Division : Manjira SD, Nizamabad



Monthly Runoff for the Year : 2015-2016

Station Name : Saigaon (AGP00N8)
Local River : Manjera/Godavari

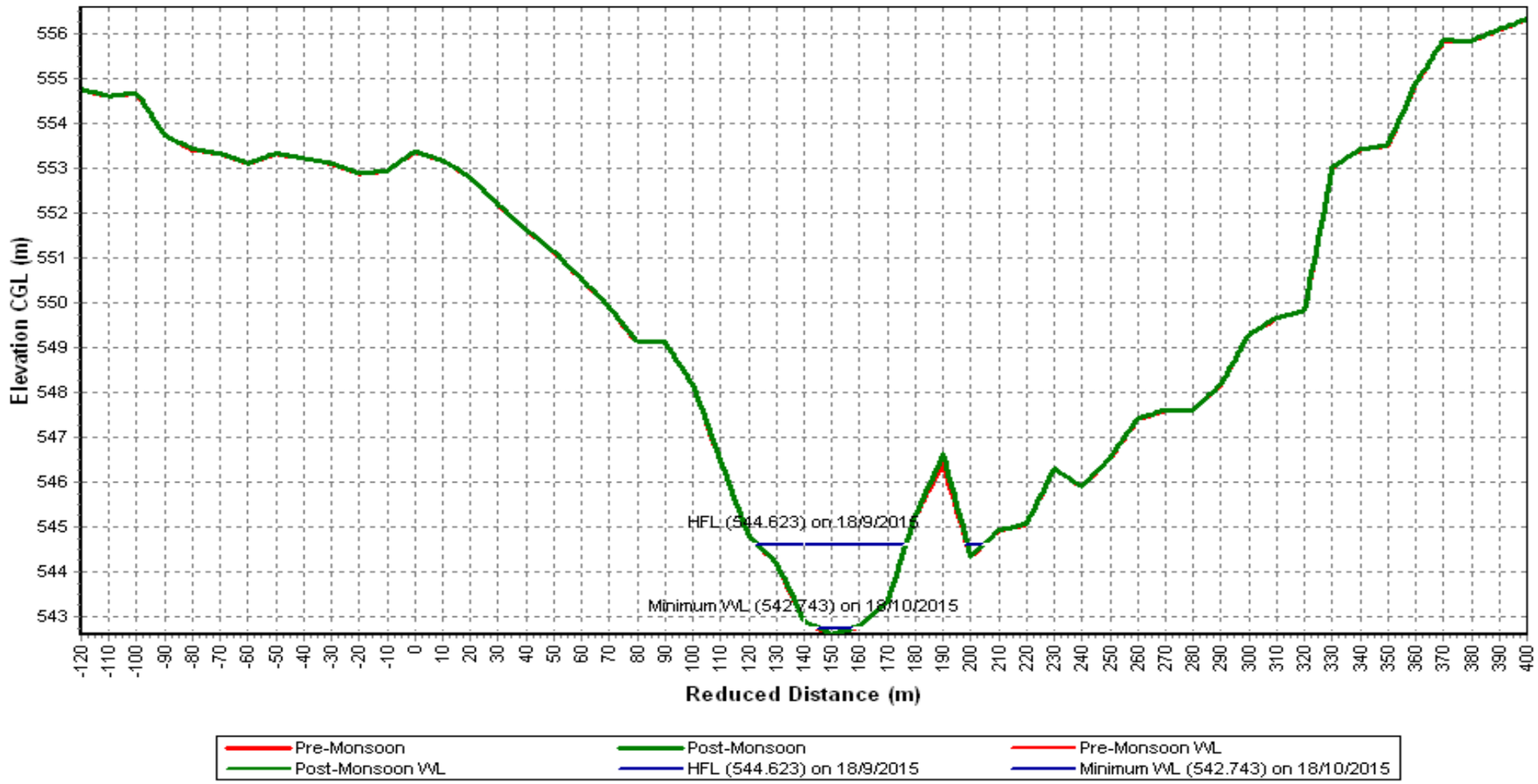
Division : U Godavari Div., Hyderabad
Sub-Division : Manjira SD, Nizamabad



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

Station Name : Saigaon (AGP00N8)
Local River : Manjera/Godavari

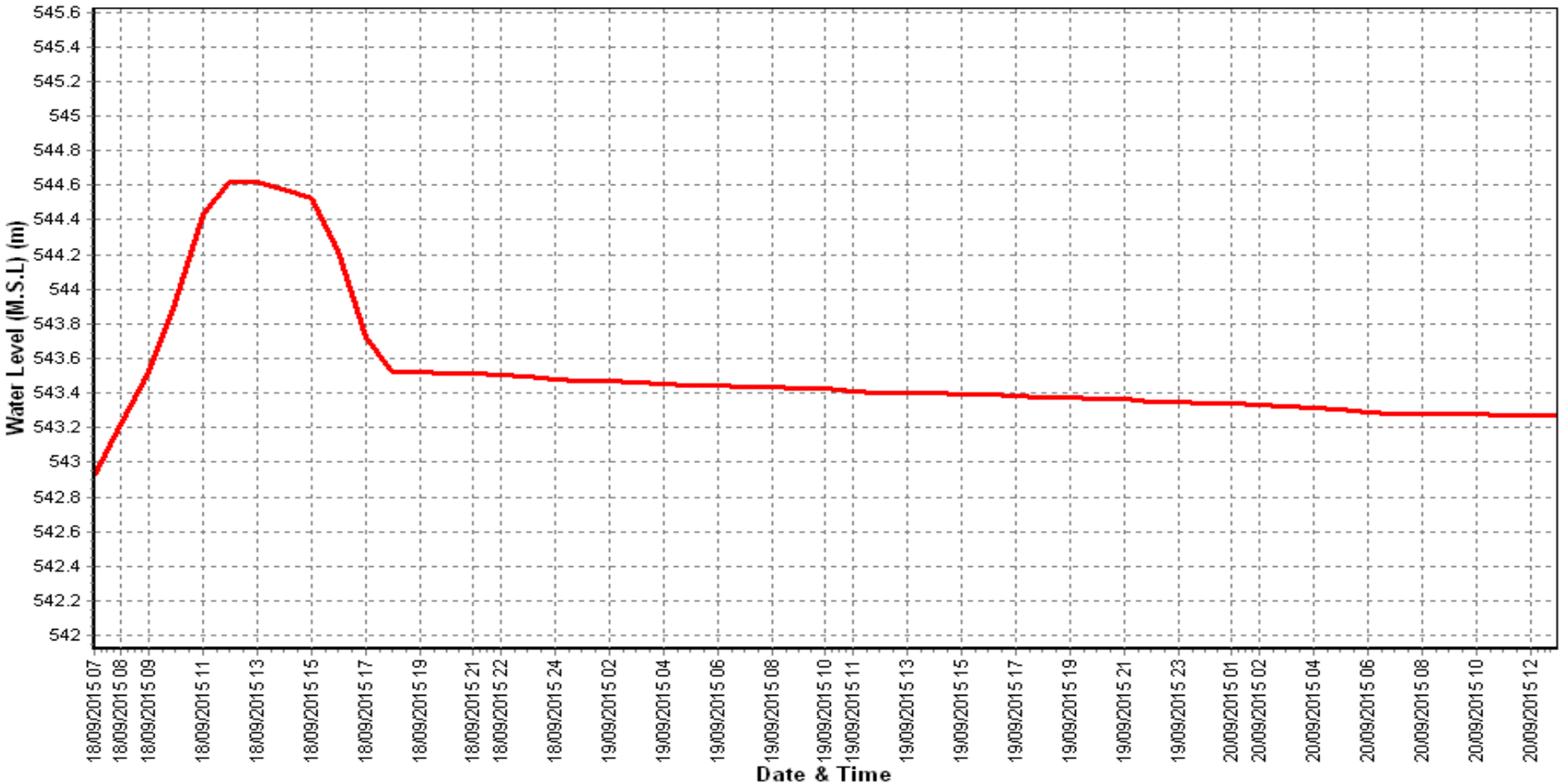
Division : U Godavari Div., Hyderabad
Sub-Division : Manjira SD, Nizamabad



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

Station Name : Saigaon (AGP00N8)
Local River : Manjera/Godavari

Division : U Godavari Div., Hyderabad
Sub-Division : Manjira SD, Nizamabad

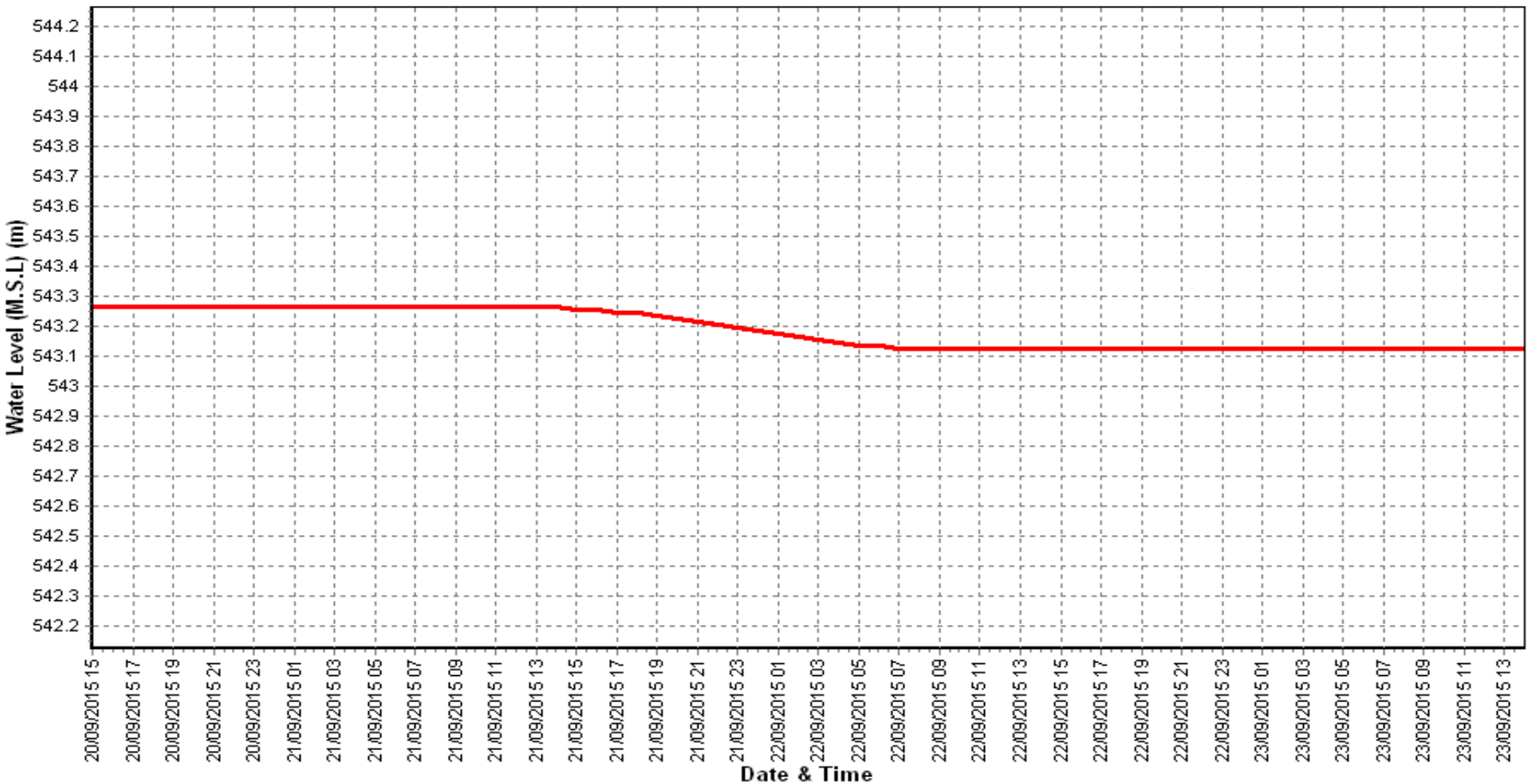


Time Span: 96 Hrs

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

Station Name : Saigaon (AGP00N8)
Local River : Manjera/Godavari

Division : U Godavari Div., Hyderabad
Sub-Division : Manjira SD, Nizamabad

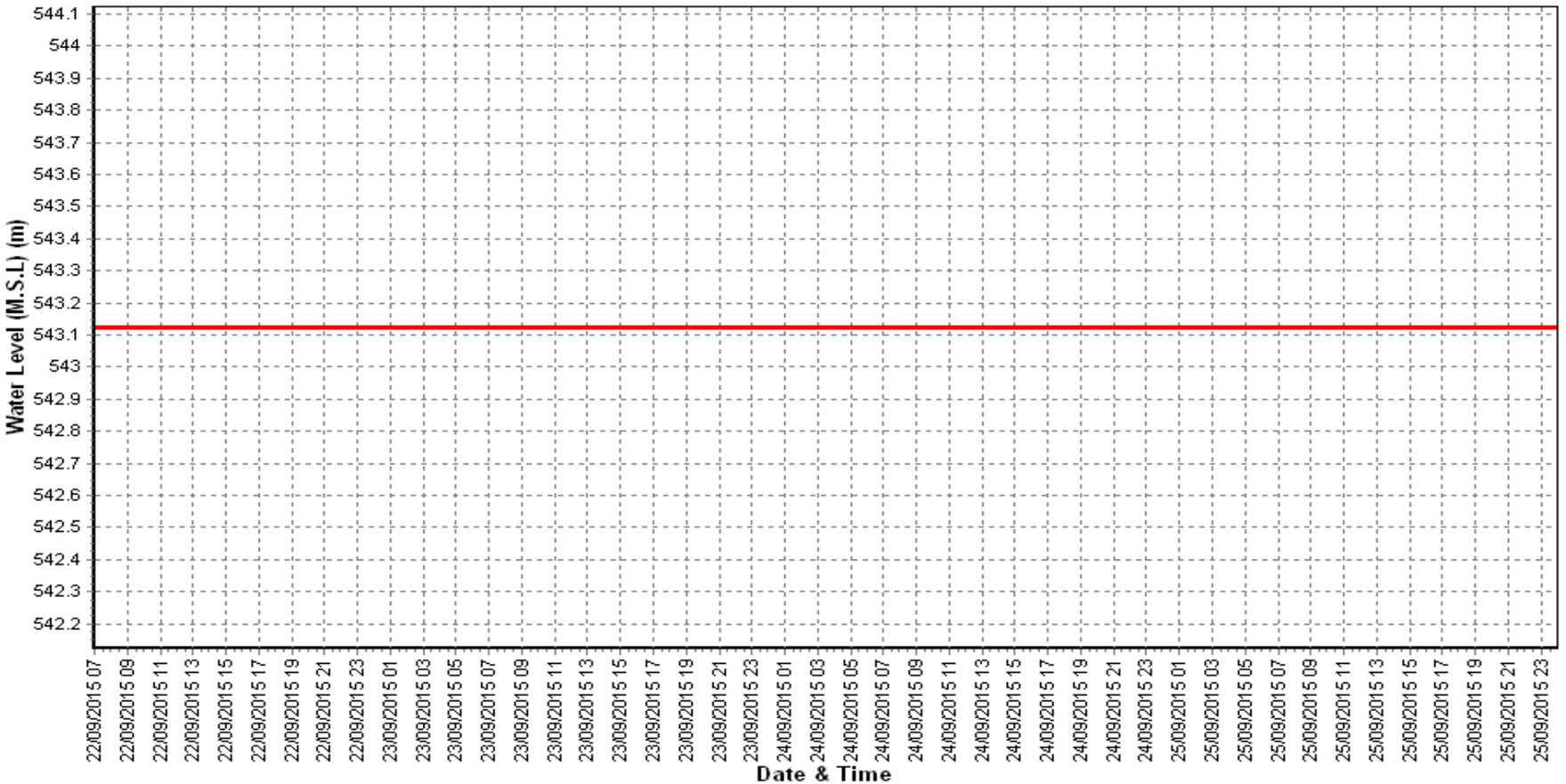


Time Span: 96 Hrs

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

Station Name : Saigaon (AGP00N8)
Local River : Manjera/Godavari

Division : U Godavari Div., Hyderabad
Sub-Division : Manjira SD, Nizamabad



Time Span: 96 Hrs

HISTORY SHEET

Water Year : 2015-2016

Site	**: Yelli**		**Code**	**: AG000P3**	
State	: Maharashtra		District	Nanded	
Basin	: Godavari		Independent River	: Godavari	
Tributary	: -		Sub Tributary	: --'	
Sub-Sub Tributary	: ---		Local River	: Godavari	
Division	: U Godavari Div., Hyderabad		Sub-Division	: Purna SD, Nanded	
Drainage Area	: 53630 Sq. Km.		Bank	: Right	
Latitude	: 19°02'00"		Longitude	: 77°28'00"	
Zero of Gauge (m)	: 334.300 (m.s.l)		6/21/1976	-	
	Opening Date		Closing Date		
Gauge	: 6/21/1976		HFL During 2014-15	: 335.15	
			Corres.Discharge	: 0.000cumecs(No flow)	
Discharge	: 4/22/1978		Date & Time of	: 6/29/2015	
			Occurance	: 12.00 hrs.	
Sediment	: 6/1/1978				
Water Quality	: 7/1/1978				

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	1390	339.930	7/8/1978	7.000	335.670	4/28/1979
1979-1980	5018	345.065	9/27/1979	3.900	335.780	4/19/1980
1980-1981	5343	345.953	8/22/1980	6.064	335.790	4/29/1981
1981-1982	2284	342.338	9/24/1981	6.404	335.905	7/21/1981
1982-1983	1475	340.313	7/12/1982	0.567	335.415	5/20/1983
1983-1984	9815	351.100	8/13/1983	3.200	335.505	6/2/1983
1984-1985	2050	341.825	10/11/1984	4.000	335.750	3/11/1985
1985-1986	574.1	338.100	10/8/1985	0.000		4/20/1986
1986-1987	1655	340.118	7/19/1986	0.000		3/10/1987
1987-1988	2811	342.170	10/7/1987	0.000		6/2/1987
1988-1989	6763	347.800	7/31/1988	2.358	335.550	6/2/1988
1989-1990	8552	349.733	7/26/1989	0.002	335.640	2/6/1990
1990-1991	8720	348.025	8/17/1990	10.20	335.800	12/29/1990
1991-1992	3804	343.450	7/12/1991	0.114	335.320	5/31/1992
1992-1993	5075	345.145	9/3/1992	0.000		5/4/1993
1993-1994	1775	341.078	7/30/1993	0.000		4/29/1994
1994-1995	2490	341.990	9/10/1994	0.000		6/2/1994
1995-1996	1800	341.073	10/20/1995	0.000		2/6/1996
1996-1997	3533	343.280	9/17/1996	0.000		3/10/1997
1997-1998	3487	343.608	9/19/1997	0.000		2/20/1998
1998-1999	5864	347.400	7/30/1998	0.000	335.300	5/5/1999
1999-2000	2958	342.970	9/9/1999	0.000	335.310	5/2/2000

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**
2000-2001	6803	348.293	8/29/2000	0.000	335.450	4/11/2001
2001-2002	5007	345.935	10/2/2001	0.000	335.440	4/27/2002
2002-2003	2918	343.850	9/7/2002	0.000		5/1/2003
2003-2004	1882	340.922	7/20/2003	0.000		2/6/2004
2004-2005	207.0	337.415	10/7/2004	0.000		1/21/2005
2005-2006	8576	350.920	7/28/2005	0.000		2/11/2006
2006-2007	12535	354.200	8/7/2006	0.000	335.530	3/29/2007
2007-2008	2362	341.670	9/23/2007	0.000		2/14/2008
2008-2009	4106	344.110	9/23/2008	0.000		1/25/2009
2009-2010	1582	340.210	8/26/2009	0.000		1/25/2010
2010-2011	2917	342.490	8/14/2010	0.000	335.410	2/8/2011
2011-2012	1781	340.940	8/27/2011	0.000		1/26/2012
2012-2013	665.3	338.790	9/5/2012	0.000	334.870	11/5/2012
2013-2014	1603	341.545	9/20/2013	0.000	335.000	3/16/2014
2014-2015	218.3	336.370	9/8/2014	0.000	334.300	1/21/2015

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

Stage-Discharge Data for the period 2015 - 2016

Station Name : Yelli (AG000P3) **Division : U Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Purna SD, Nanded**

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	334.300	0.000	335.130	0.000	334.600	0.000	334.450	0.000	334.550	0.000	334.300	0.000
2	334.300	0.000	335.100	0.000	334.560	0.000	334.450	0.000	334.570	0.000	334.300	0.000
3	334.300	0.000	335.090	0.000	334.500	0.000	334.440	0.000	334.570	0.000	334.300	0.000
4	334.300	0.000	335.070	0.000	334.480	0.000	334.440	0.000	334.560	0.000	334.300	0.000
5	334.300	0.000	335.060	0.000	334.500	0.000	334.430	0.000	334.550	0.000	334.300	0.000
6	334.300	0.000	335.050	0.000	334.500	0.000	334.420	0.000	334.550	0.000	334.300	0.000
7	334.300	0.000	335.040	0.000	334.470	0.000	334.400	0.000	334.540	0.000	334.300	0.000
8	334.300	0.000	335.030	0.000	334.460	0.000	334.380	0.000	334.540	0.000	334.300	0.000
9	334.300	0.000	335.030	0.000	334.450	0.000	334.380	0.000	334.500	0.000	334.300	0.000
10	334.300	0.000	335.020	0.000	334.440	0.000	334.470	0.000	334.490	0.000	334.300	0.000
11	334.300	0.000	335.010	0.000	334.430	0.000	334.470	0.000	334.460	0.000	334.300	0.000
12	334.300	0.000	335.000	0.000	334.430	0.000	334.470	0.000	334.450	0.000	334.300	0.000
13	334.300	0.000	335.000	0.000	334.430	0.000	334.470	0.000	334.420	0.000	334.300	0.000
14	334.300	0.000	335.000	0.000	334.420	0.000	334.480	0.000	334.400	0.000	334.300	0.000
15	334.300	0.000	335.000	0.000	334.610	0.000	334.490	0.000	334.400	0.000	334.300	0.000
16	334.300	0.000	334.980	0.000	334.600	0.000	334.530	0.000	334.380	0.000	334.300	0.000
17	334.800	0.000	334.960	0.000	334.580	0.000	334.530	0.000	334.370	0.000	334.300	0.000
18	334.820	0.000	334.960	0.000	334.570	0.000	334.570	0.000	334.350	0.000	334.300	0.000
19	334.780	0.000	334.950	0.000	334.560	0.000	334.580	0.000	334.340	0.000	334.300	0.000
20	334.770	0.000	334.940	0.000	334.550	0.000	334.640	0.000	334.300	0.000	334.300	0.000
21	334.790	0.000	334.930	0.000	334.550	0.000	334.630	0.000	334.300	0.000	334.300	0.000
22	334.800	0.000	334.920	0.000	334.540	0.000	334.620	0.000	334.300	0.000	334.300	0.000
23	334.770	0.000	334.910	0.000	334.540	0.000	334.610	0.000	334.300	0.000	334.300	0.000
24	334.760	0.000	334.910	0.000	334.530	0.000	334.600	0.000	334.300	0.000	334.300	0.000
25	334.750	0.000	334.950	0.000	334.510	0.000	334.590	0.000	334.300	0.000	334.300	0.000
26	334.740	0.000	334.990	0.000	334.510	0.000	334.560	0.000	334.300	0.000	334.300	0.000
27	334.740	0.000	334.990	0.000	334.500	0.000	334.540	0.000	334.300	0.000	334.300	0.000
28	334.860	0.000	334.980	0.000	334.470	0.000	334.550	0.000	334.300	0.000	334.300	0.000
29	335.120	0.000	334.970	0.000	334.490	0.000	334.550	0.000	334.300	0.000	334.300	0.000
30	335.140	0.000	334.920	0.000	334.500	0.000	334.550	0.000	334.300	0.000	334.300	0.000
31			334.740	0.000	334.480	0.000			334.300	0.000		
n-Daily Mean												
I Ten-Daily	334.300	0.000	335.062	0.000	334.496	0.000	334.426	0.000	334.542	0.000	334.300	0.000
II Ten-Daily	334.497	0.000	334.980	0.000	334.518	0.000	334.523	0.000	334.387	0.000	334.300	0.000
III Ten-Daily	334.847	0.000	334.928	0.000	334.511	0.000	334.580	0.000	334.300	0.000	334.300	0.000
Monthly												
Min.	334.300	0.000	334.740	0.000	334.420	0.000	334.380	0.000	334.300	0.000	334.300	0.000
Max.	335.140	0.000	335.130	0.000	334.610	0.000	334.640	0.000	334.570	0.000	334.300	0.000
Mean	334.548	0	334.988	0	334.508	0	334.510	0	334.406	0	334.300	0

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

Peak Observed Discharge = 0.000 cumecs on 01/06/2015 Corres. Water Level :334.3 m

Lowest Observed Discharge = 0.000 cumecs on 01/06/2015 Corres. Water Level :334.3 m

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 : Yelli (AG000P3) **Division : U Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Purna SD, Nanded**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000
2	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000
3	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000
4	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000
5	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000
6	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000
7	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000
8	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000
9	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000
10	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000
11	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000
12	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000
13	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000
14	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000
15	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000
16	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000
17	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000
18	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000
19	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000
20	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000
21	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000
22	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000
23	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000
24	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000
25	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000
26	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000
27	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000
28	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000
29	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000
30	334.300	0.000	334.300	0.000			334.300	0.000	334.300	0.000	334.300	0.000
31	334.300	0.000	334.300	0.000			334.300	0.000			334.300	0.000
n-Daily Me												
I Ten-Daily	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000
II Ten-Daily	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000
III Ten-Daily	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000
Monthly												
Min.	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000
Max.	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000	334.300	0.000
Mean	334.300	0	334.300	0	334.300	0	334.300	0	334.300	0	334.300	0

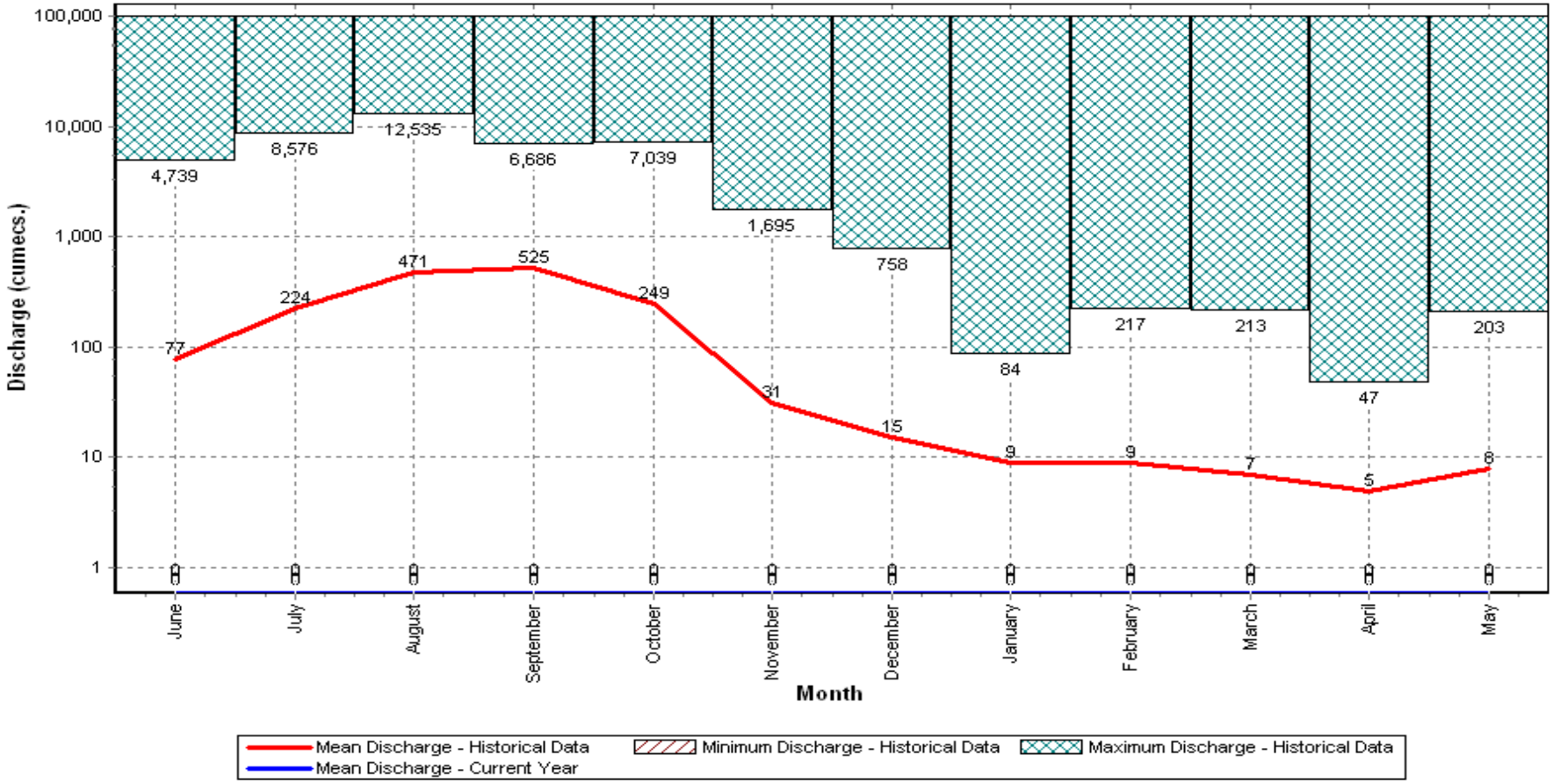
Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016

Station Name : Yelli (AG000P3) **Data considered : 1978-2016** **Division : U Godavari Div., Hyderabad**

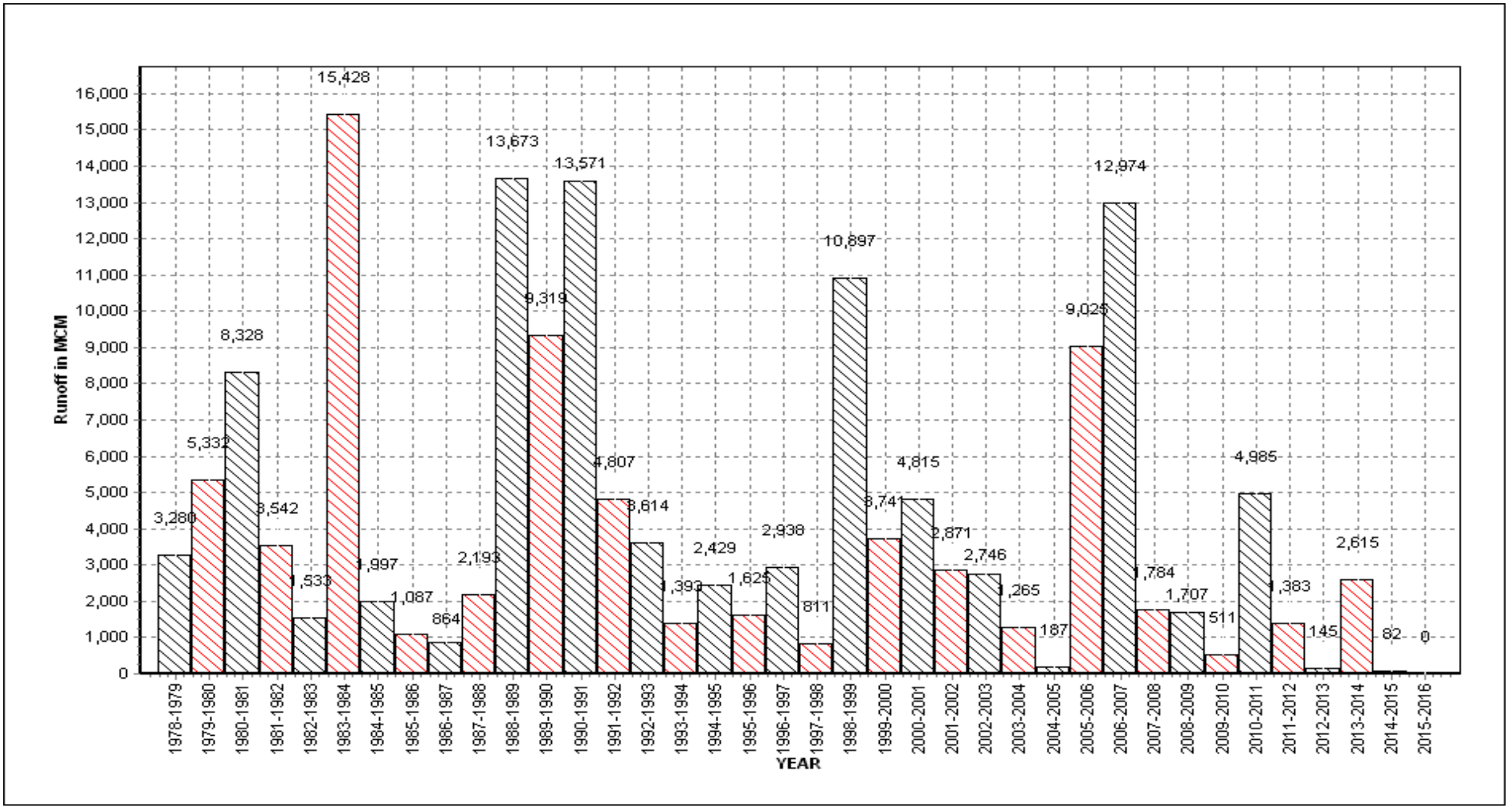
Local River : Godavari **Sub-Division : Purna SD, Nanded**



Annual Runoff Values for the period: 1978 - 2016

Station Name : Yelli (AG000P3) **Division : U Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Purna SD, Nanded**



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

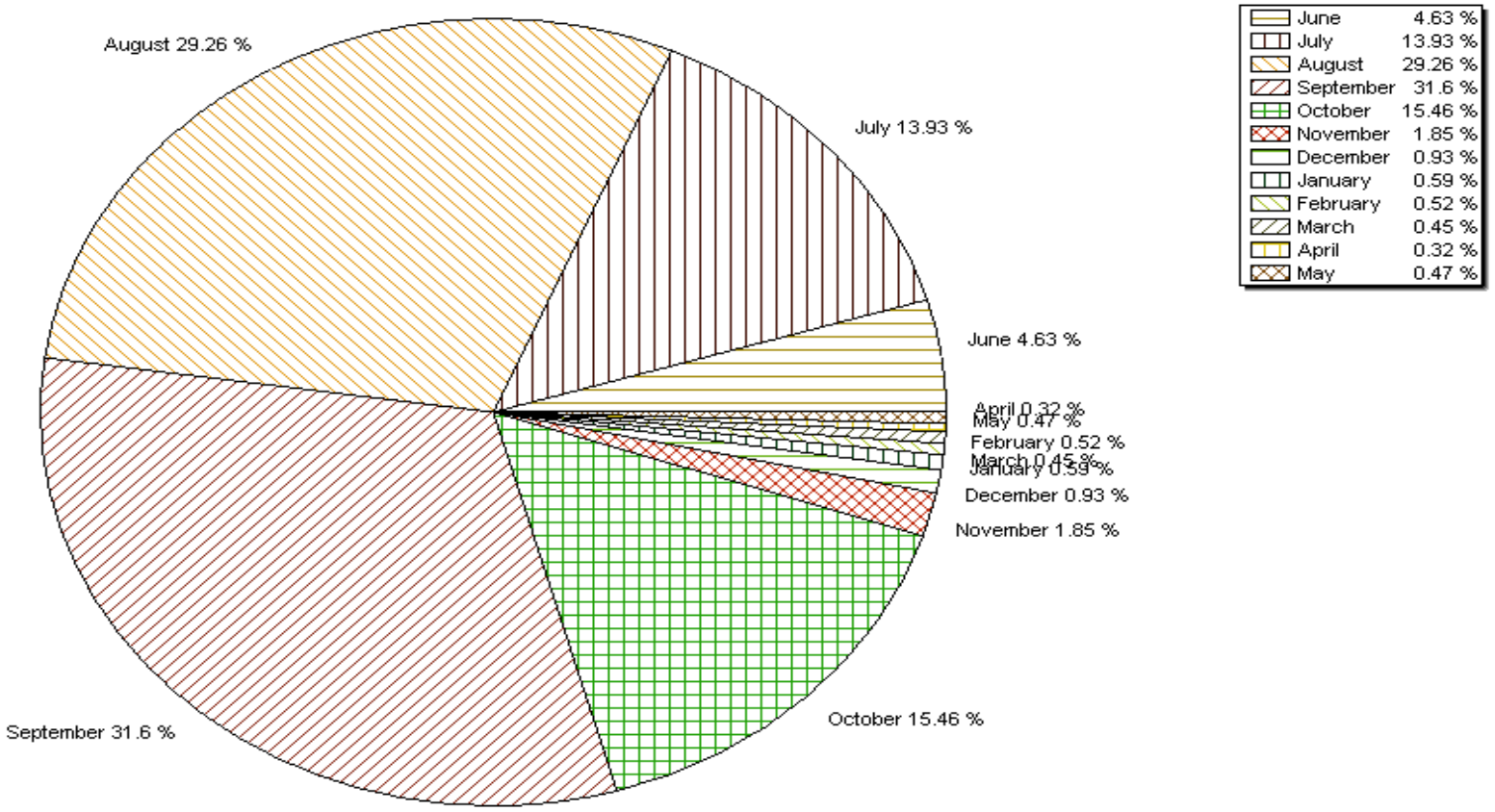
Monthly Average Runoff based on period : 1978-2015

Station Name : Yelli (AG000P3)

Local River : Godavari

Division : U Godavari Div., Hyderabad

Sub-Division : Purna SD, Nanded



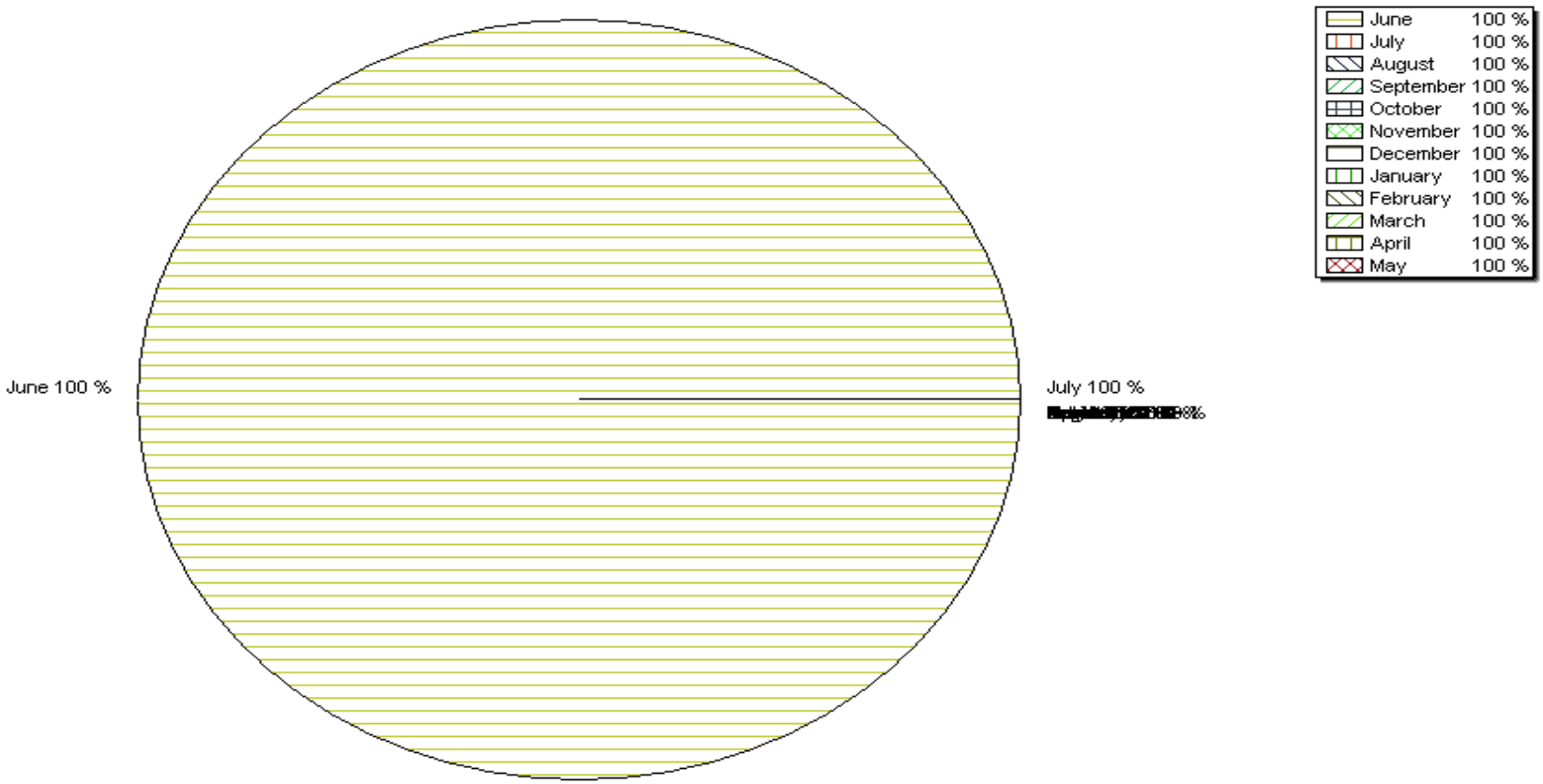
Monthly Runoff for the Year : 2015-2016

Station Name : Yelli (AG000P3)

Local River : Godavari

Division : U Godavari Div., Hyderabad

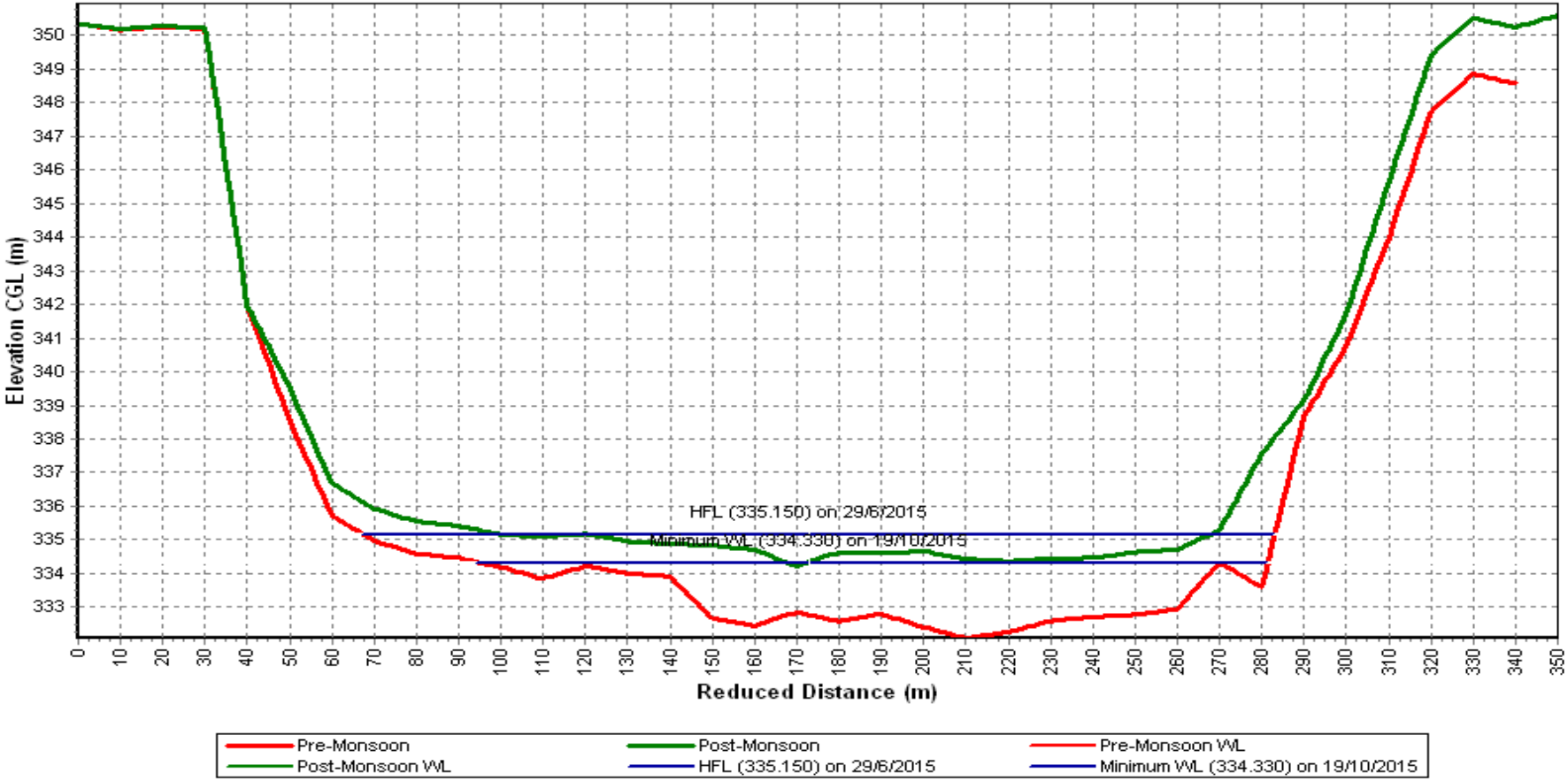
Sub-Division : Purna SD, Nanded



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

Station Name : Yelli (AG000P3) **Division : U Godavari Div., Hyderabad**

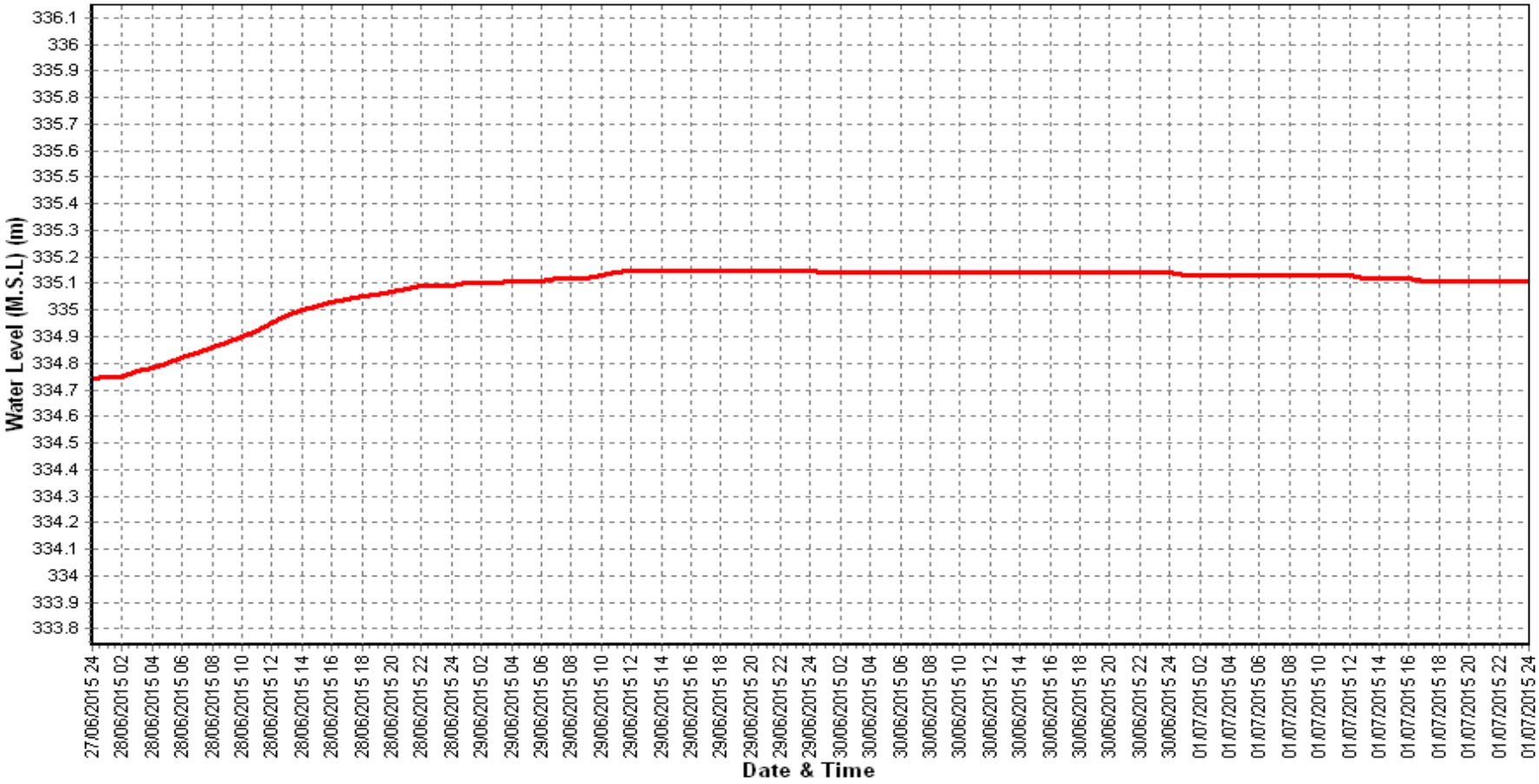
Local River : Godavari **Sub-Division : Purna SD, Nanded**



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

Station Name : Yelli (AG000P3) **Division : U Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Purna SD, Nanded**

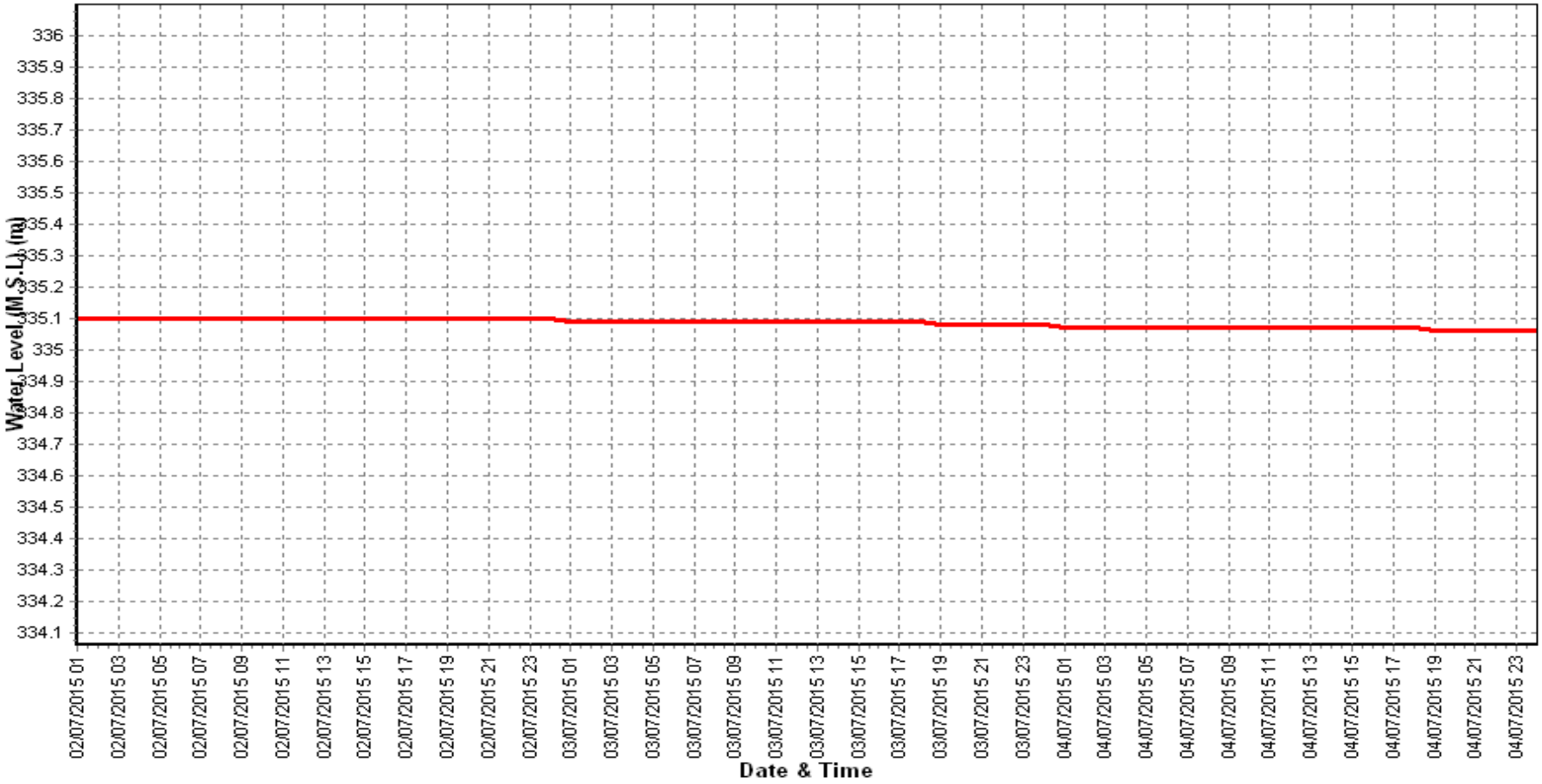


Time Span: 96 Hrs

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

Station Name : Yelli (AG000P3) **Division : U Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Purna SD, Nanded**

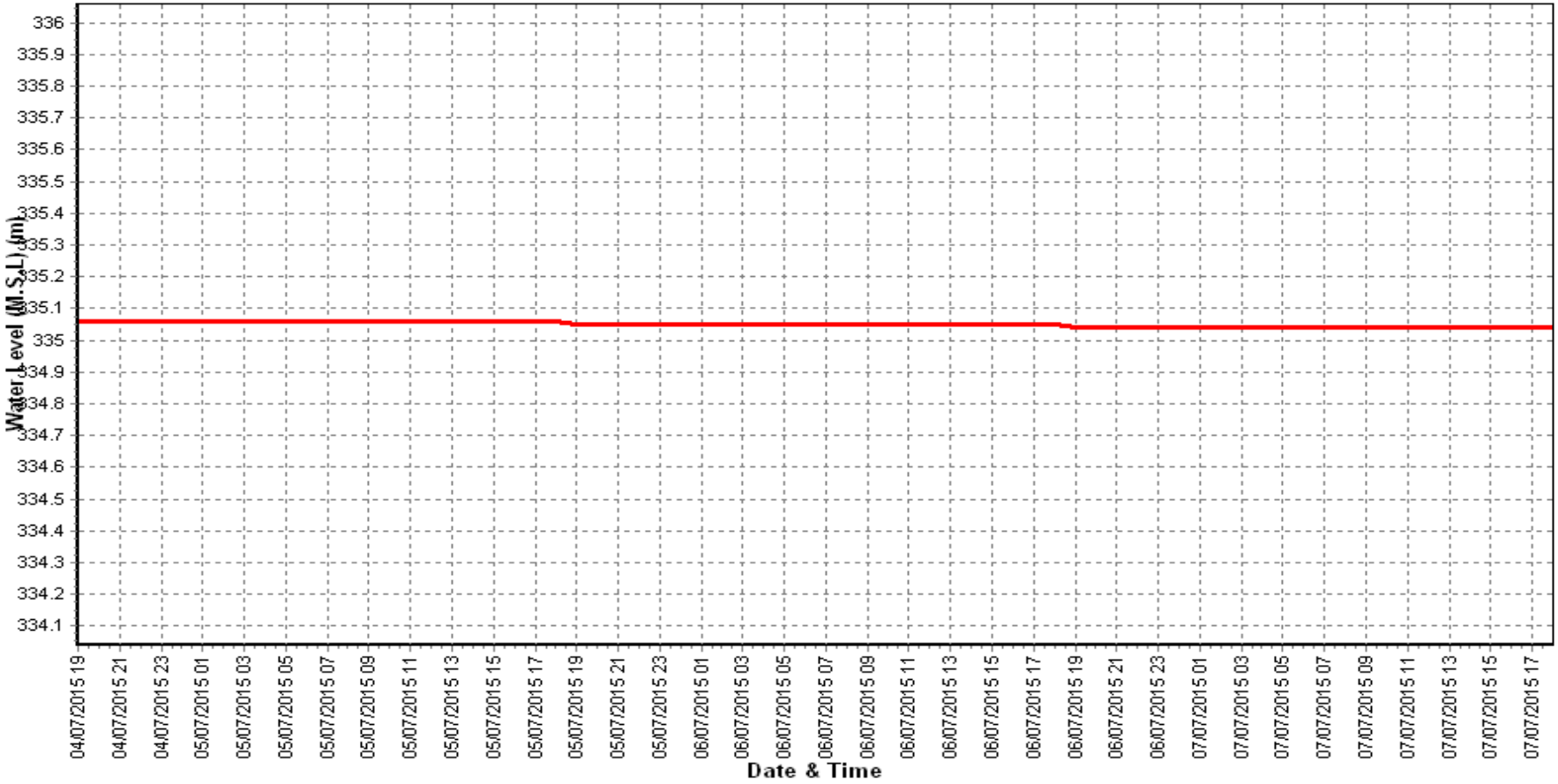


Time Span: 96 Hrs

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

Station Name : Yelli (AG000P3) **Division : U Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Purna SD, Nanded**



Time Span: 96 Hrs

HISTORY SHEET

Water Year : 2015-2016

Site	:	**Purna**	**Code**	:	**AGR00A5**
State	:	Maharashtra	District		Parbhani
Basin	:	Godavari	Independent River	:	Godavari
Tributary	:	Purna	Sub Tributary	:	---
Sub-Sub Tributary	:	---	Local River	:	Purna
Division	:	U Godavari Div., Hyderabad	Sub-Division	:	Purna SD, Nanded
Drainage Area	:	15000 Sq. Km.	Bank	:	Left
Latitude	:	19°10'33"	Longitude	:	77°02'00"
Zero of Gauge (m)	:	358.000 (m.s.l)	6/23/1968	-	
		Opening Date	Closing Date		
Gauge	:	6/23/1968	**HFL During 2015-16**	:	**361.200**
			Corres. Discharge	:	**402.296 Cumes(Estimated)**
Discharge	:	9/2/1969	**Date & Time of**	:	**9/19/2015**
			Occurance	:	**01:00 hrs.**
Sediment	:	10/10/1972			
Water Quality	:	11/1/1972			

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

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1969-1970	5037	369.610	9/4/1969	0.424	358.500	4/23/1970
1970-1971	2655	365.515	8/17/1970	1.272	358.480	4/13/1971
1971-1972	4133	368.165	8/26/1971	1.000	358.460	4/1/1972
1972-1973	441.7	361.240	6/28/1972	0.000		4/20/1973
1973-1974	4738	368.880	8/22/1973	0.000		6/2/1973
1974-1975	620.6	361.195	8/5/1974	0.300	358.330	4/28/1975
1975-1976	6113	371.610	9/5/1975	1.605	358.470	6/8/1975
1976-1977	2887	365.635	8/31/1976	0.855	358.415	4/6/1977
1977-1978	2329	364.930	9/2/1977	2.100	358.540	6/6/1977
1978-1979	645.1	361.628	7/25/1978	0.728	358.390	5/20/1979
1979-1980	1750	364.570	9/26/1979	1.500	358.440	4/19/1980
1980-1981	4125	367.500	8/18/1980	1.500	358.440	3/11/1981
1981-1982	507.2	361.230	9/11/1981	0.918	358.520	4/11/1982
1982-1983	637.0	361.608	7/11/1982	0.000	358.390	5/13/1983
1983-1984	4358	367.570	8/13/1983	0.000	358.300	6/12/1983
1984-1985	677.0	361.575	10/10/1984	0.100	358.500	4/25/1985
1985-1986	320.6	360.710	10/7/1985	0.000		4/24/1986
1986-1987	707.3	361.980	7/18/1986	0.000		5/20/1987
1987-1988	1734	364.270	10/6/1987	0.000		6/2/1987
1988-1989	5776	368.740	9/21/1988	1.530	358.780	6/16/1988
1989-1990	6133	369.540	7/24/1989	0.930	358.480	3/6/1990
1990-1991	3625	367.030	8/30/1990	1.121	358.615	3/15/1991

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	1903	363.800	7/11/1991	0.272	358.230	5/7/1992
1992-1993	5543	367.770	6/20/1992	0.174	358.310	6/12/1992
1993-1994	469.2	361.100	9/2/1993	0.000	358.120	2/13/1994
1994-1995	433.9	361.070	8/25/1994	0.000	358.190	2/6/1995
1995-1996	786.7	361.580	9/2/1995	0.000		1/26/1996
1996-1997	911.4	361.975	8/29/1996	0.000		1/12/1997
1997-1998	428.3	361.000	9/23/1997	0.000		4/2/1998
1998-1999	4376	366.825	7/30/1998	0.000		6/10/1998
1999-2000	1229	362.400	9/13/1999	0.000		2/7/2000
2000-2001	4972	367.235	8/28/2000	0.000		3/31/2001
2001-2002	4479	366.800	10/2/2001	0.000		1/25/2002
2002-2003	2456	364.400	9/6/2002	0.000		6/11/2002
2003-2004	842.5	361.650	7/20/2003	0.000		1/14/2004
2004-2005	519.9	360.800	9/11/2004	0.000		1/25/2005
2005-2006	10811	371.800	7/27/2005	0.000		11/27/2005
2006-2007	10463	371.600	8/7/2006	0.000		12/10/2006
2007-2008	268.7	360.485	9/21/2007	0.000	358.080	11/9/2007
2008-2009	641.3	361.760	9/22/2008	0.000	358.120	1/25/2009
2009-2010	466.5	361.260	8/26/2009	0.000	358.020	1/25/2010
2010-2011	1577	364.760	9/9/2010	0.000		6/30/2010
2011-2012	617.4	361.830	7/14/2011	0.000		1/9/2012
2012-2013	912.8	363.000	9/4/2012	0.000		11/22/2012
2013-2014	1475	363.780	7/24/2013	0.000	358.080	5/13/2014
2014-2015	470.3	360.990	9/1/2014	0.000	358.000	1/26/2015

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

Stage-Discharge Data for the period 2015 - 2016

Station Name : Purna (AGR00A5) **Division : U Godavari Div., Hyderabad**

Local River : Purna **Sub-Division : Purna SD, Nanded**

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	358.000	0.000	358.070	0.000	358.000	0.000	358.000	0.000	358.050	0.000	358.000	0.000
2	358.000	0.000	358.070	0.000	358.000	0.000	358.000	0.000	358.020	0.000	358.000	0.000
3	358.000	0.000	358.060	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000
4	358.000	0.000	358.060	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000
5	358.000	0.000	358.030	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000
6	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000
7	358.730	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000
8	358.120	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000
9	358.130	0.000	358.000	0.000	358.000	0.000	358.970	28.31	358.000	0.000	358.000	0.000
10	358.900	33.00	358.000	0.000	358.000	0.000	359.325	30.75	358.000	0.000	358.000	0.000
11	358.580	8.999	358.000	0.000	358.000	0.000	358.700	9.888	358.000	0.000	358.000	0.000
12	358.790	18.47	358.000	0.000	358.440	5.202	358.495	4.633	358.000	0.000	358.000	0.000
13	358.740	18.58	358.000	0.000	358.620	10.18	358.900	26.72 *	358.000	0.000	358.000	0.000
14	358.840	23.56 *	358.000	0.000	358.580	9.930	358.600	7.138	358.000	0.000	358.000	0.000
15	358.700	18.04	358.000	0.000	358.480	0.000	358.830	11.71	358.000	0.000	358.000	0.000
16	358.770	17.10	358.000	0.000	358.340	0.000	358.600	8.499	358.000	0.000	358.000	0.000
17	358.900	32.56	358.000	0.000	358.130	0.000	358.650	15.76 *	358.000	0.000	358.000	0.000
18	358.935	24.10	358.000	0.000	358.100	0.000	358.965	26.49	358.000	0.000	358.000	0.000
19	358.665	14.83	358.000	0.000	358.090	0.000	360.348	203.9	358.000	0.000	358.000	0.000
20	358.600	6.393	358.000	0.000	358.090	0.000	359.150	43.54 *	358.000	0.000	358.000	0.000
21	358.520	6.391 *	358.000	0.000	358.000	0.000	358.880	19.89	358.000	0.000	358.000	0.000
22	358.440	5.263	358.000	0.000	358.000	0.000	358.770	18.77	358.000	0.000	358.000	0.000
23	358.380	4.600	358.000	0.000	358.000	0.000	358.625	10.46	358.000	0.000	358.000	0.000
24	358.340	3.615	358.000	0.000	358.000	0.000	358.530	9.022	358.000	0.000	358.000	0.000
25	358.450	5.560	358.000	0.000	358.000	0.000	358.490	9.021 *	358.000	0.000	358.000	0.000
26	358.350	3.154	358.000	0.000	358.000	0.000	358.440	5.748	358.000	0.000	358.000	0.000
27	358.140	0.000	358.000	0.000	358.000	0.000	358.360	5.747 *	358.000	0.000	358.000	0.000
28	358.110	0.000	358.000	0.000	358.000	0.000	358.300	4.979	358.000	0.000	358.000	0.000
29	358.100	0.000	358.000	0.000	358.000	0.000	358.170	0.000	358.000	0.000	358.000	0.000
30	358.080	0.000	358.000	0.000	358.000	0.000	358.100	0.000	358.000	0.000	358.000	0.000
31			358.000	0.000	358.000	0.000			358.000	0.000		
n-Daily Mean												
I Ten-Daily	358.188	3.300	358.029	0.000	358.000	0.000	358.229	5.906	358.007	0.000	358.000	0.000
II Ten-Daily	358.752	18.26	358.000	0.000	358.287	2.531	358.924	35.83	358.000	0.000	358.000	0.000
II Ten-Daily	358.291	2.858	358.000	0.000	358.000	0.000	358.467	8.364	358.000	0.000	358.000	0.000
Monthly												
Min.	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000
Max.	358.935	33.00	358.070	0.000	358.620	10.18	360.348	203.9	358.050	0.000	358.000	0.000
Mean	358.410	8.14	358.009	0	358.093	0.816	358.540	16.7	358.002	0	358.000	0

Annual Runoff in MCM = 67 Annual Runoff in mm = 4

Peak Observed Discharge = 203.9 cumecs on 19/09/2015 Corres. Water Level :360.3475 m

Lowest Observed Discharge = 0.000 cumecs on 01/06/2015 Corres. Water Level :358 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

Stage-Discharge Data for the period 2015 - 2016

Station Name : Purna (AGR00A5) **Division : U Godavari Div., Hyderabad**

Local River : Purna **Sub-Division : Purna SD, Nanded**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000
2	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000
3	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000
4	358.000	0.000	358.000	0.000	358.110	0.000	358.000	0.000	358.000	0.000	358.000	0.000
5	358.000	0.000	358.000	0.000	358.100	0.000	358.000	0.000	358.000	0.000	358.000	0.000
6	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000
7	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000
8	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000
9	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000
10	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000
11	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000
12	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000
13	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000
14	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000
15	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000
16	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000
17	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000
18	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000
19	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000
20	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000
21	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000
22	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000
23	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000
24	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000
25	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000
26	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000
27	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000
28	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000
29	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000
30	358.000	0.000	358.000	0.000			358.000	0.000	358.000	0.000	358.000	0.000
31	358.000	0.000	358.000	0.000			358.000	0.000			358.000	0.000
n-Daily Me												
I Ten-Daily	358.000	0.000	358.000	0.000	358.021	0.000	358.000	0.000	358.000	0.000	358.000	0.000
II Ten-Daily	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000
III Ten-Daily	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000
Monthly												
Min.	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000	358.000	0.000
Max.	358.000	0.000	358.000	0.000	358.110	0.000	358.000	0.000	358.000	0.000	358.000	0.000
Mean	358.000	0	358.000	0	358.007	0	358.000	0	358.000	0	358.000	0

Peak Computed Discharge = 43.54 cumecs on 20/09/2015 **Corres. Water Level :359.15 m**

Lowest Computed Discharge = 5.747 cumecs on 27/09/2015 **Corres. Water Level :358.36 m**

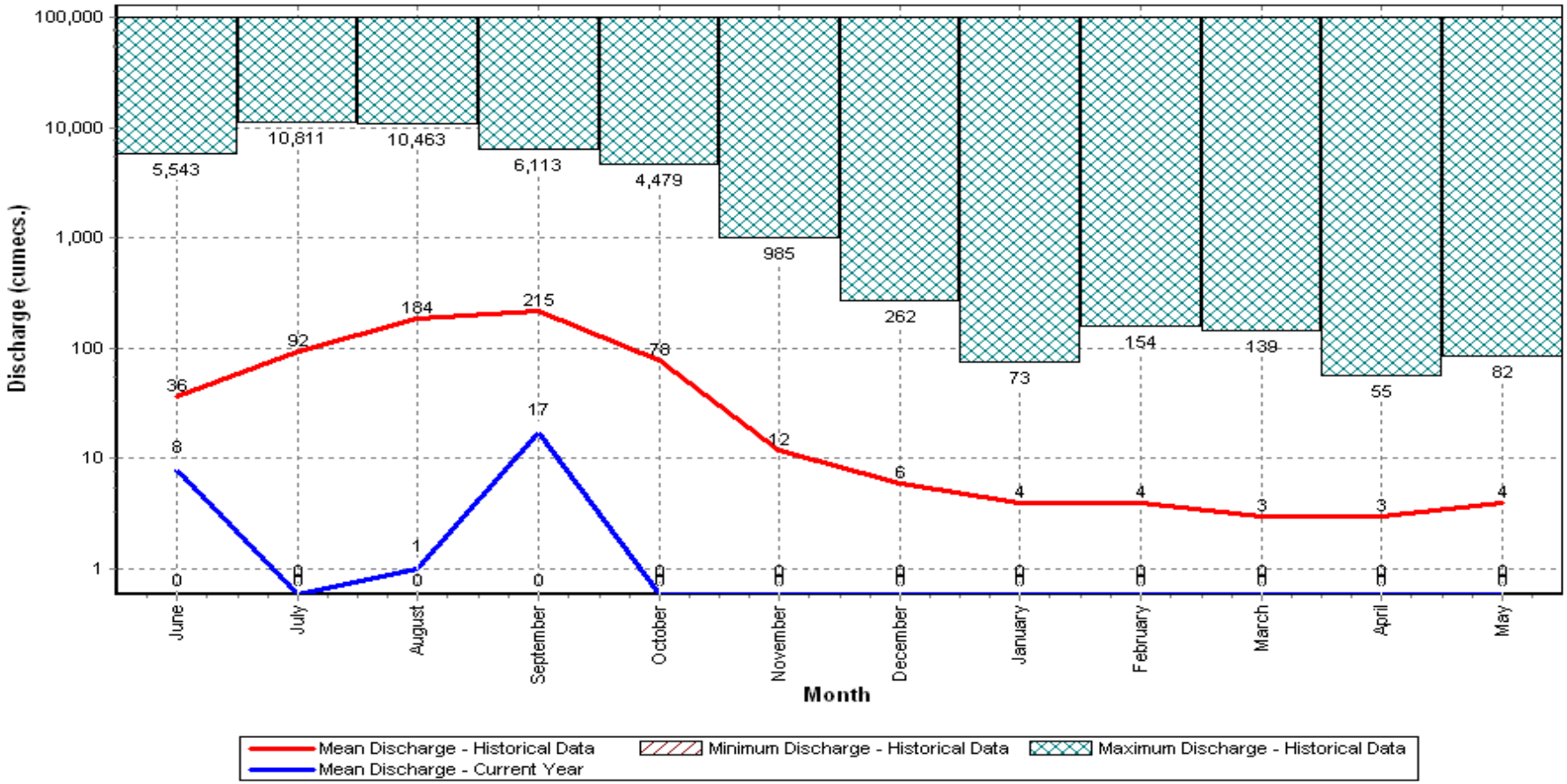
Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016

Station Name : Purna (AGR00A5) | **Data considered : 1969-2016** | **Division : U Godavari Div., Hyderabad**

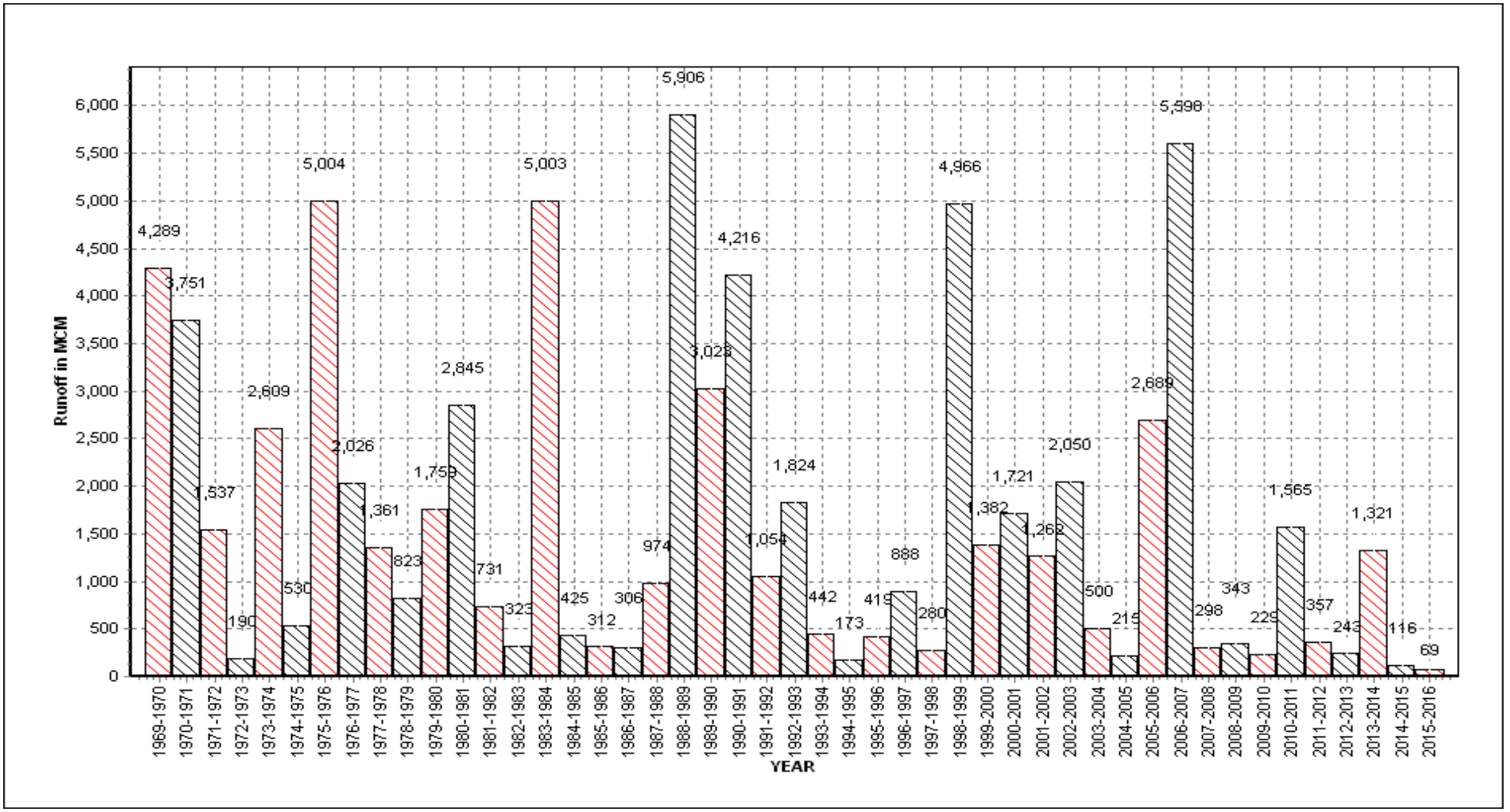
Local River : Purna | **Sub-Division : Purna SD, Nanded**



Annual Runoff Values for the period: 1969 - 2016

Station Name : Purna (AGR00A5) **Division : U Godavari Div., Hyderabad**

Local River : Purna **Sub-Division : Purna SD, Nanded**

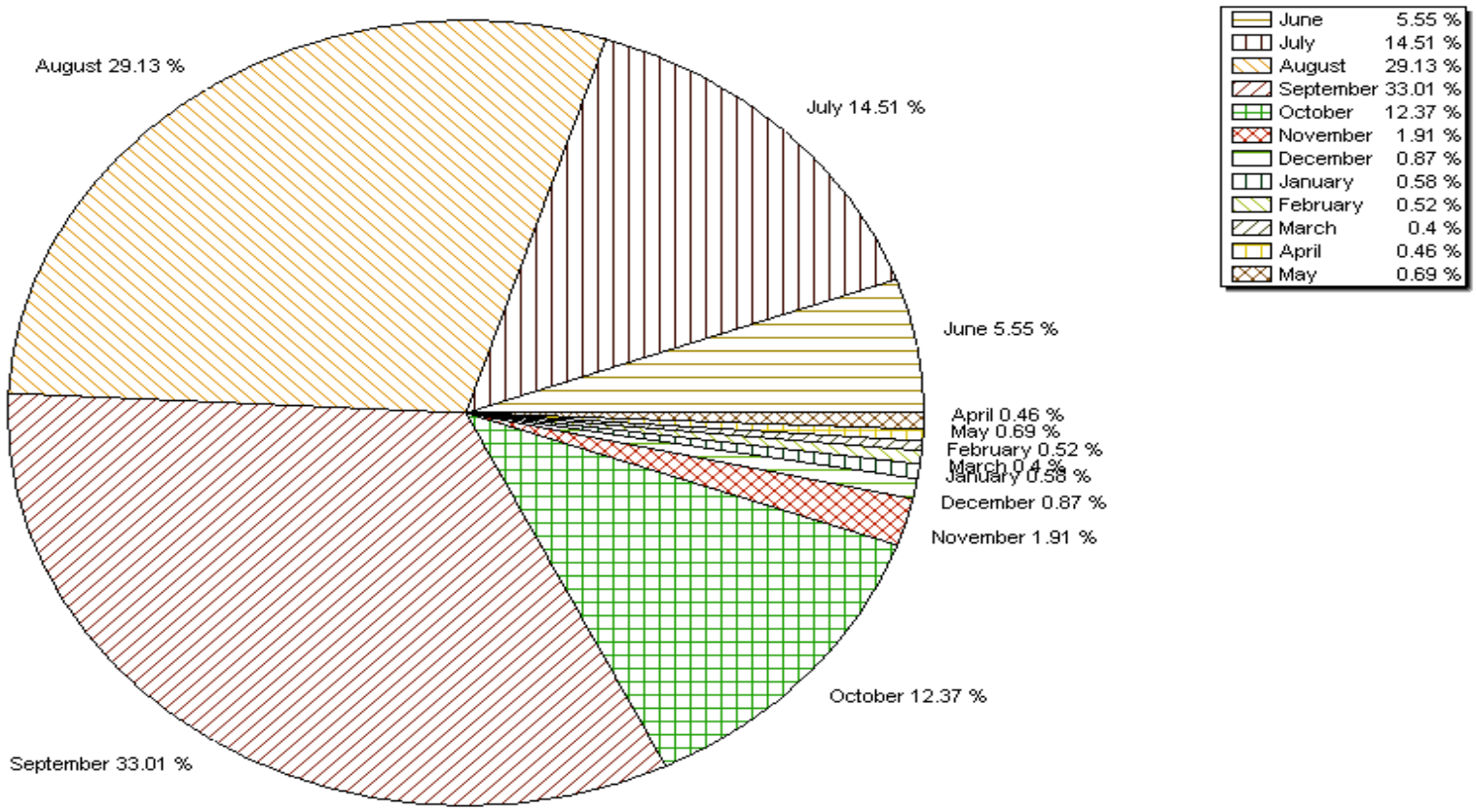


Note: Missing values have not been considered while arriving at Annual Runoff

Monthly Average Runoff based on period : 1969-2015

Station Name : Purna (AGR00A5) **Division : U Godavari Div., Hyderabad**

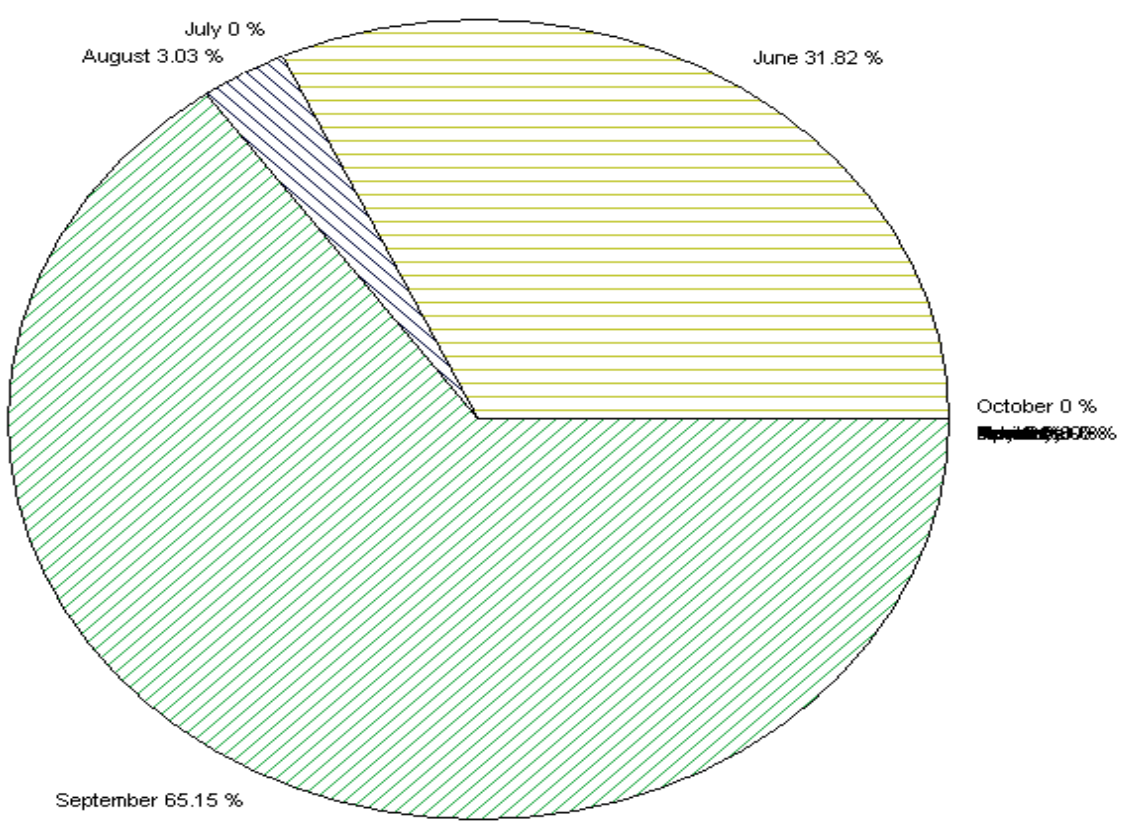
Local River : Purna **Sub-Division : Purna SD, Nanded**



Monthly Runoff for the Year : 2015-2016

Station Name : Purna (AGR00A5) **Division : U Godavari Div., Hyderabad**

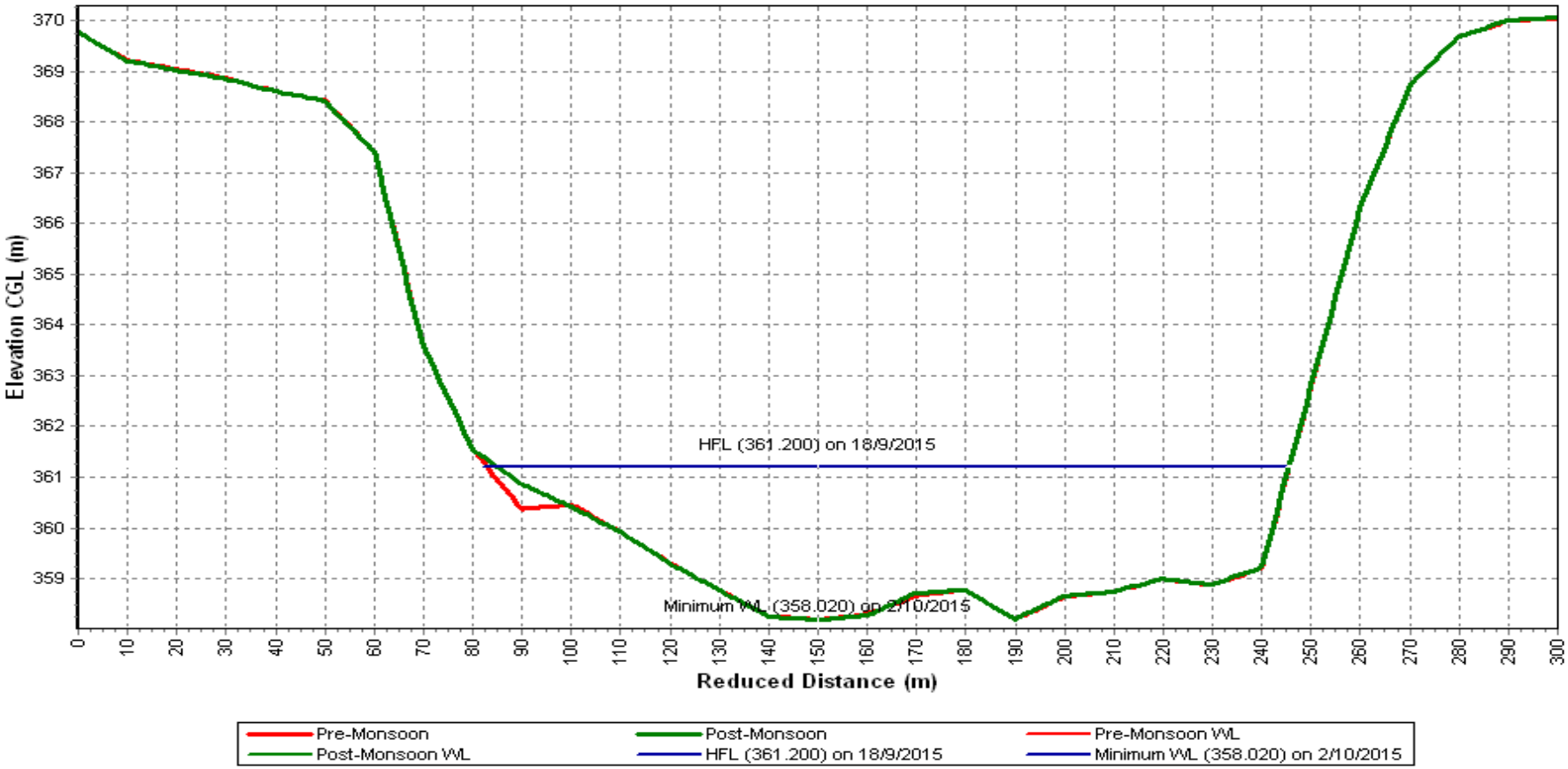
Local River : Purna **Sub-Division : Purna SD, Nanded**



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

Station Name : Purna (AGR00A5) **Division : U Godavari Div., Hyderabad**

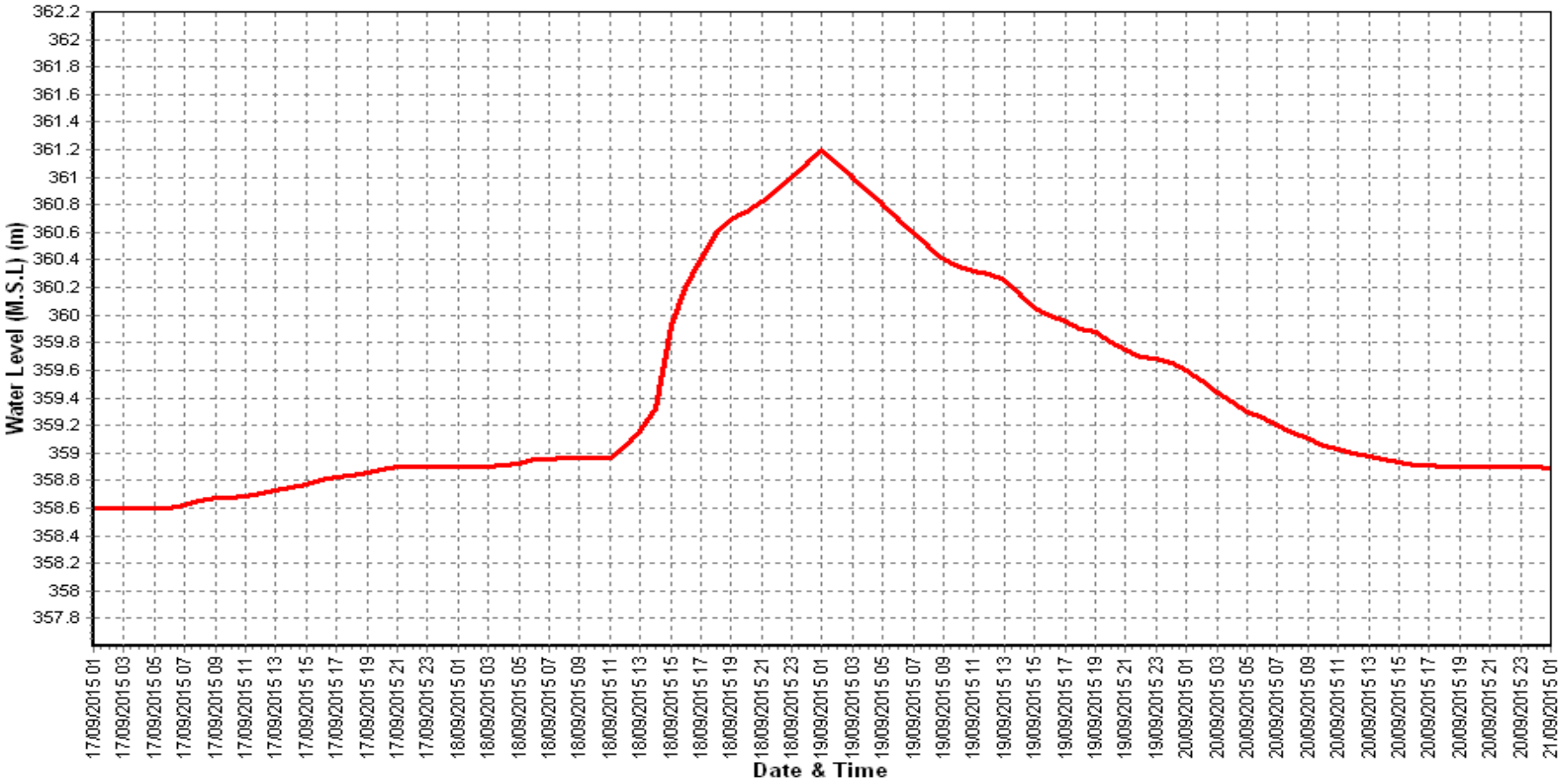
Local River : Purna **Sub-Division : Purna SD, Nanded**



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

Station Name : Purna (AGR00A5) **Division : U Godavari Div., Hyderabad**

Local River : Purna **Sub-Division : Purna SD, Nanded**

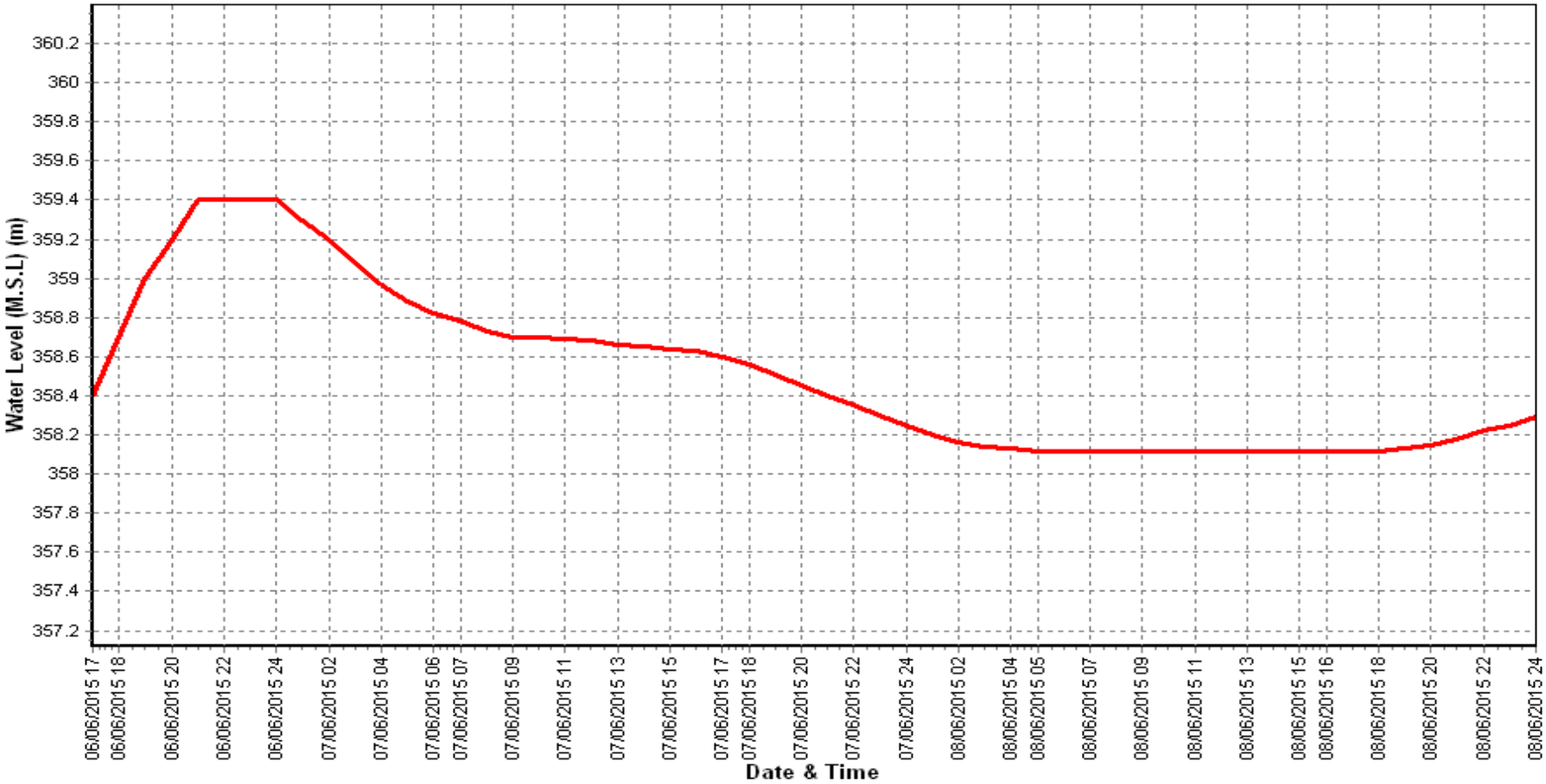


Time Span: 96 Hrs

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

Station Name : Purna (AGR00A5) **Division : U Godavari Div., Hyderabad**

Local River : Purna **Sub-Division : Purna SD, Nanded**

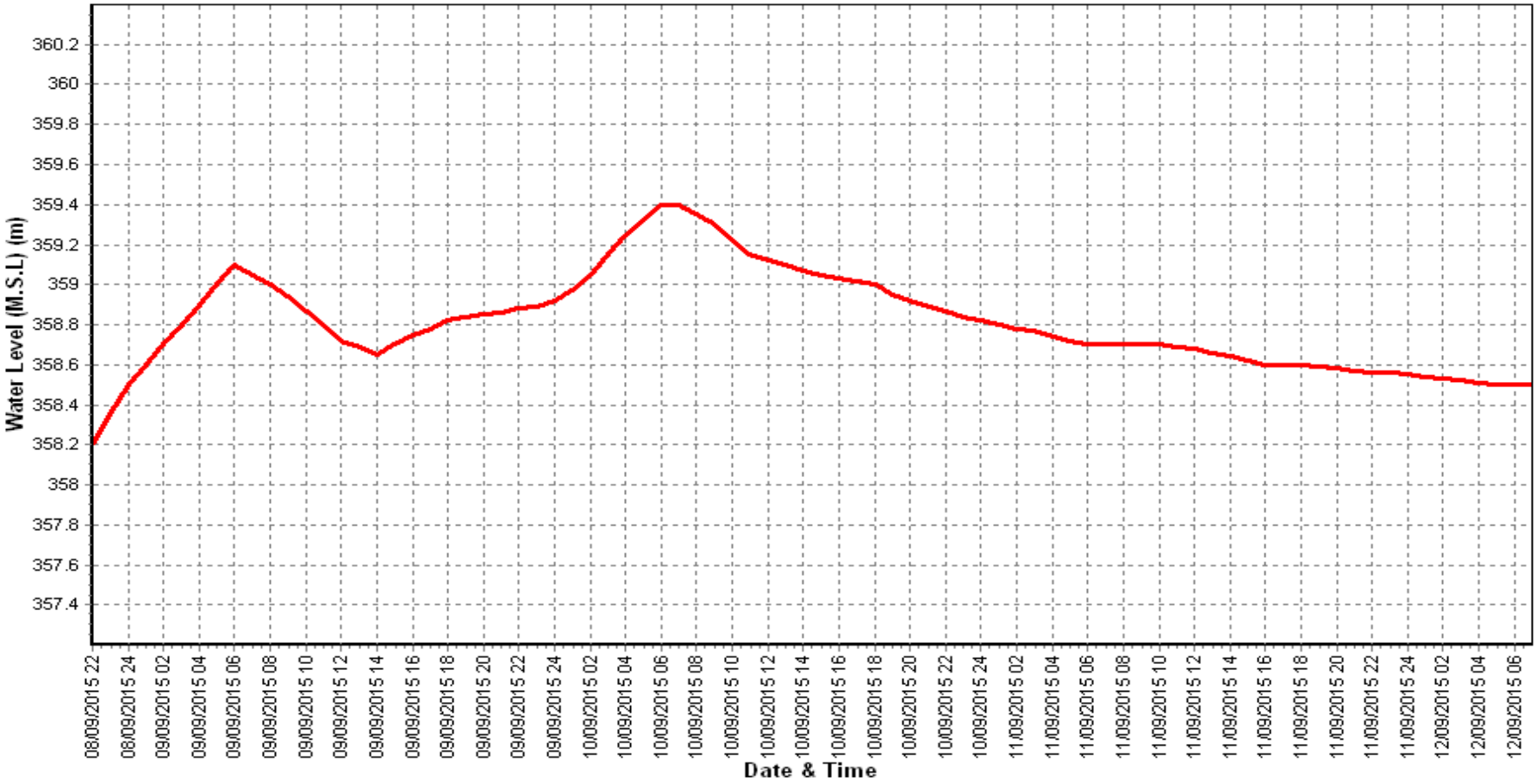


Time Span: 96 Hrs

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

Station Name : Purna (AGR00A5) **Division : U Godavari Div., Hyderabad**

Local River : Purna **Sub-Division : Purna SD, Nanded**



Time Span: 96 Hrs

HISTORY SHEET

Water Year : 2015-2016

Site	**: Zari**		**Code**	**: AGR10C6**	
State	: Maharashtra		District	Parbhani	
Basin	: Godavari		Independent River	: Godavari	
Tributary	: Purna		Sub Tributary	: Dudhna	
Sub-Sub Tributary	: ---		Local River	: Dudhna	
Division	: U Godavari Div., Hyderabad		Sub-Division	: Purna SD, Nanded	
Drainage Area	: 5550 Sq. Km.		Bank	: Right	
Latitude	: 19°23'43"		Longitude	: 76°46'15"	
Zero of Gauge (m)	: 373 (m.s.l)		7/12/1986	-	
	Opening Date		Closing Date		
Gauge	: 7/23/1986		**HFL During 2014-15**	**: 377.5**	
			Corres.Discharge	**: 0.000cumecs(No flow)**	
Discharge	: 6/18/1987		**Date & Time of Occurance**	**: 9/18/2015 : 18.00 hrs.**	
Sediment	:				
Water Quality	: 8/1/1988				

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

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1987-1988	1405	382.780	10/6/1987	0.000	373.035	2/9/1988
1988-1989	1920	384.560	9/21/1988	0.000		5/10/1989
1989-1990	1943	384.780	7/25/1989	0.000		3/26/1990
1990-1991	1149	381.760	8/17/1990	0.000	373.520	4/16/1991
1991-1992	824.5	381.125	6/11/1991	0.000		1/26/1992
1992-1993	1474	382.725	9/3/1992	0.000		2/2/1993
1993-1994	216.3	376.635	7/4/1993	0.000		3/6/1994
1994-1995	150.6	375.905	8/25/1994	0.000		1/25/1995
1995-1996	393.9	377.840	9/2/1995	0.000		1/26/1996
1996-1997	255.7	376.820	8/29/1996	0.000		1/25/1997
1997-1998	203.5	376.400	9/24/1997	0.000		1/25/1998
1998-1999	2223	385.510	7/30/1998	0.000		2/7/1999
1999-2000	576.3	378.865	9/12/1999	0.000		1/26/2000
2000-2001	1343	383.135	8/28/2000	0.000		1/25/2001
2001-2002	779.1	381.065	10/2/2001	0.000		1/25/2002
2002-2003	907.2	380.900	6/27/2002	0.000		1/25/2003
2003-2004	481.3	379.000	8/10/2003	0.000		1/26/2004
2004-2005	210.2	376.505	9/11/2004	0.000		1/25/2005
2005-2006	2471	385.710	7/27/2005	0.000		1/25/2006
2006-2007	1875	384.800	8/7/2006	0.000	373.380	11/14/2006
2007-2008	152.7	375.750	8/30/2007	0.000		1/23/2008
2008-2009	398.4	377.205	9/14/2008	0.000	373.170	1/25/2009

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	566.1	378.455	8/25/2009	0.000		1/23/2010
2010-2011	891.3	381.295	8/31/2010	0.000	373.500	1/25/2011
2011-2012	419.0	377.350	9/2/2011	0.000		1/26/2012
2012-2013	156.6	376.375	9/4/2012	0.000		8/24/2012
2013-2014	584.3	378.525	9/20/2013	0.000		3/15/2014
2014-2015	386.2	376.750	9/1/2014	0.000	373.000	1/17/2015

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

Stage-Discharge Data for the period 2015 - 2016

Station Name : Zari (AGR10C6) **Division : U Godavari Div., Hyderabad**

Local River : Dudhna **Sub-Division : Purna SD, Nanded**

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	373.000	0.000	373.240	0.000	373.000	0.000	373.000	0.000	374.780	0.000	373.000	0.000
2	373.000	0.000	373.270	0.000	373.000	0.000	373.000	0.000	374.760	0.000	373.000	0.000
3	373.000	0.000	373.150	0.000	373.000	0.000	373.000	0.000	374.720	0.000	373.000	0.000
4	373.000	0.000	373.140	0.000	373.000	0.000	373.000	0.000	374.670	0.000	373.000	0.000
5	373.000	0.000	373.140	0.000	373.000	0.000	373.000	0.000	374.630	0.000	373.000	0.000
6	373.000	0.000	373.140	0.000	373.000	0.000	373.000	0.000	374.610	0.000	373.000	0.000
7	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000	374.580	0.000	373.000	0.000
8	373.200	0.000	373.000	0.000	373.000	0.000	373.150	0.000	374.540	0.000	373.000	0.000
9	374.620	0.000	373.000	0.000	373.000	0.000	374.000	0.000	374.480	0.000	373.000	0.000
10	375.100	0.000	373.000	0.000	373.000	0.000	373.270	0.000	374.430	0.000	373.000	0.000
11	374.680	0.000	373.000	0.000	373.000	0.000	373.260	0.000	374.390	0.000	373.000	0.000
12	374.640	0.000	373.000	0.000	373.000	0.000	373.270	0.000	374.350	0.000	373.000	0.000
13	375.240	0.000	373.000	0.000	373.000	0.000	373.380	0.000	374.310	0.000	373.000	0.000
14	375.270	0.000	373.000	0.000	373.000	0.000	373.600	4.637	374.260	0.000	373.000	0.000
15	375.000	0.000	373.000	0.000	373.000	0.000	373.380	1.224	374.210	0.000	373.000	0.000
16	374.880	0.000	373.000	0.000	373.000	0.000	373.305	1.004	374.160	0.000	373.000	0.000
17	375.070	0.000	373.000	0.000	373.000	0.000	373.750	0.000	374.110	0.000	373.000	0.000
18	374.780	0.000	373.000	0.000	373.000	0.000	374.530	0.000	374.050	0.000	373.000	0.000
19	374.810	0.000	373.000	0.000	373.000	0.000	376.650	0.000	373.970	0.000	373.000	0.000
20	374.770	0.000	373.000	0.000	373.000	0.000	374.460	0.000	373.910	0.000	373.000	0.000
21	374.720	0.000	373.000	0.000	373.000	0.000	374.480	0.000	373.830	0.000	373.000	0.000
22	374.650	0.000	373.000	0.000	373.000	0.000	374.980	0.000	373.760	0.000	373.000	0.000
23	374.620	0.000	373.000	0.000	373.000	0.000	374.990	0.000	373.650	0.000	373.000	0.000
24	373.300	0.000	373.000	0.000	373.000	0.000	374.990	0.000	373.550	0.000	373.000	0.000
25	373.230	0.000	373.000	0.000	373.000	0.000	374.940	0.000	373.450	0.000	373.000	0.000
26	373.190	0.000	373.000	0.000	373.000	0.000	374.900	0.000	373.330	0.000	373.000	0.000
27	373.170	0.000	373.000	0.000	373.000	0.000	374.870	0.000	373.000	0.000	373.000	0.000
28	373.160	0.000	373.000	0.000	373.000	0.000	374.850	0.000	373.000	0.000	373.000	0.000
29	373.150	0.000	373.000	0.000	373.000	0.000	374.820	0.000	373.000	0.000	373.000	0.000
30	373.200	0.000	373.000	0.000	373.000	0.000	374.800	0.000	373.000	0.000	373.000	0.000
31			373.000	0.000	373.000	0.000			373.000	0.000		
en-Daily Mean												
I Ten-Daily	373.392	0.000	373.108	0.000	373.000	0.000	373.142	0.000	374.620	0.000	373.000	0.000
II Ten-Daily	374.914	0.000	373.000	0.000	373.000	0.000	373.958	0.687	374.172	0.000	373.000	0.000
III Ten-Daily	373.639	0.000	373.000	0.000	373.000	0.000	374.862	0.000	373.325	0.000	373.000	0.000
Monthly												
Min.	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000
Max.	375.270	0.000	373.270	0.000	373.000	0.000	376.650	4.637	374.780	0.000	373.000	0.000
Mean	373.982	0	373.035	0	373.000	0	373.987	0.229	374.016	0	373.000	0

Annual Runoff in MCM = 1 Annual Runoff in mm = 0

Peak Observed Discharge = 4.637 cumecs on 14/09/2015 Corres. Water Level :373.6 m

Lowest Observed Discharge = 0.000 cumecs on 01/06/2015 Corres. Water Level :373 m

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 : Zari (AGR10C6) **Division : U Godavari Div., Hyderabad**

Local River : Dudhna **Sub-Division : Purna SD, Nanded**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000
2	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000
3	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000
4	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000
5	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000
6	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000
7	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000
8	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000
9	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000
10	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000
11	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000
12	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000
13	373.000	0.000	373.000	0.000	373.800	0.000	373.000	0.000	373.000	0.000	373.000	0.000
14	373.000	0.000	373.000	0.000	373.610	0.000	373.000	0.000	373.000	0.000	373.000	0.000
15	373.000	0.000	373.000	0.000	373.500	0.000	373.000	0.000	373.000	0.000	373.000	0.000
16	373.000	0.000	373.000	0.000	373.450	0.000	373.000	0.000	373.000	0.000	373.000	0.000
17	373.000	0.000	373.000	0.000	373.380	0.000	373.000	0.000	373.000	0.000	373.000	0.000
18	373.000	0.000	373.000	0.000	373.340	0.000	373.000	0.000	373.000	0.000	373.000	0.000
19	373.000	0.000	373.000	0.000	373.280	0.000	373.000	0.000	373.000	0.000	373.000	0.000
20	373.000	0.000	373.000	0.000	373.200	0.000	373.000	0.000	373.000	0.000	373.000	0.000
21	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000
22	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000
23	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000
24	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000
25	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000
26	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000	374.600	0.000
27	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000	373.700	0.000
28	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000	373.400	0.000
29	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000	373.200	0.000
30	373.000	0.000	373.000	0.000			373.000	0.000	373.000	0.000	373.000	0.000
31	373.000	0.000	373.000	0.000			373.000	0.000			373.000	0.000
en-Daily Mea												
I Ten-Daily	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000
II Ten-Daily	373.000	0.000	373.000	0.000	373.356	0.000	373.000	0.000	373.000	0.000	373.000	0.000
III Ten-Daily	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000	373.264	0.000
Monthly												
Min.	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000	373.000	0.000
Max.	373.000	0.000	373.000	0.000	373.800	0.000	373.000	0.000	373.000	0.000	374.600	0.000
Mean	373.000	0	373.000	0	373.123	0	373.000	0	373.000	0	373.094	0

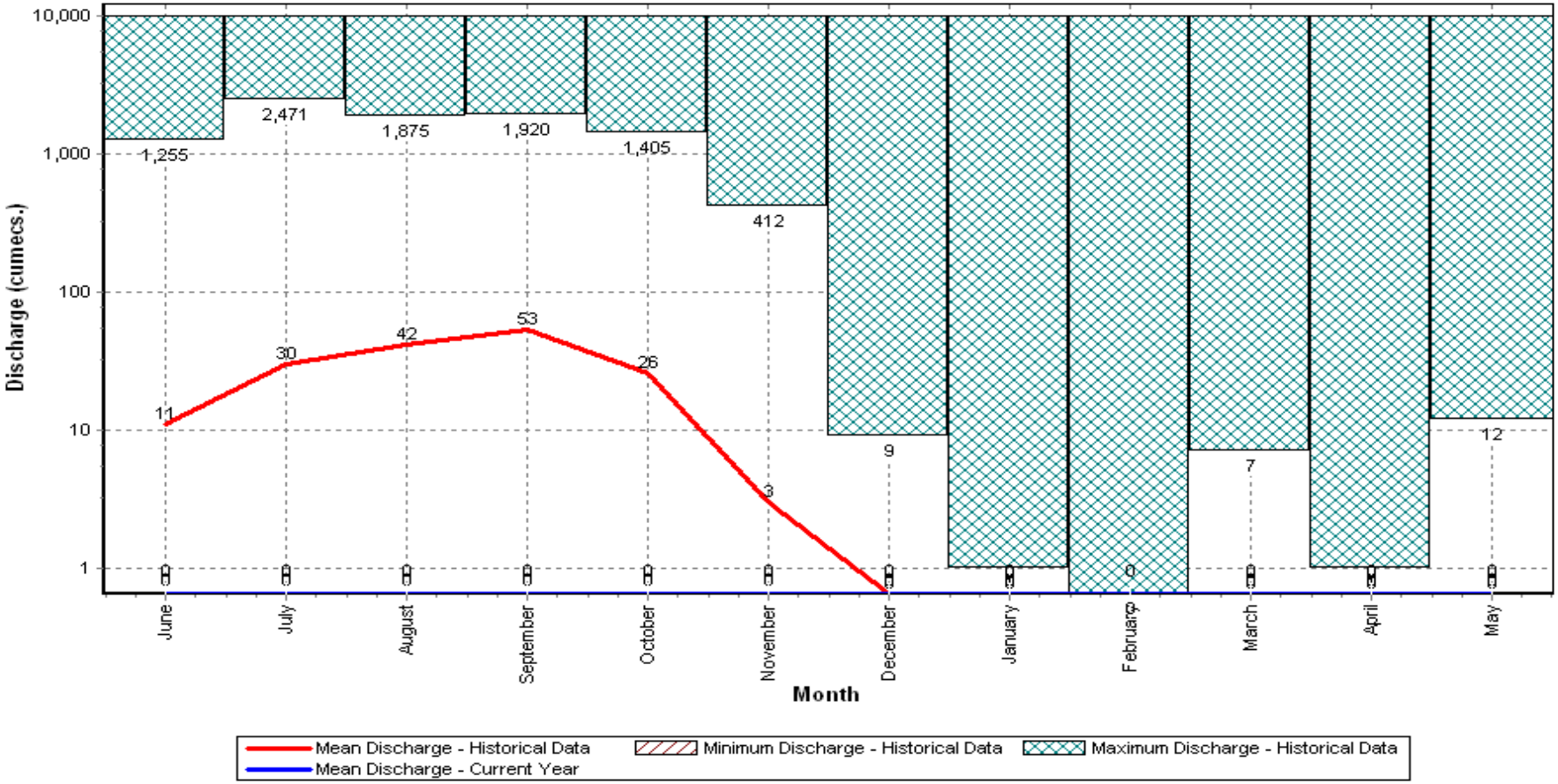
Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016

Station Name : Zari (AGR10C6) | **Data considered : 1987-2016** | **Division : U Godavari Div., Hyderabad**

Local River : Dudhna | **Sub-Division : Purna SD, Nanded**



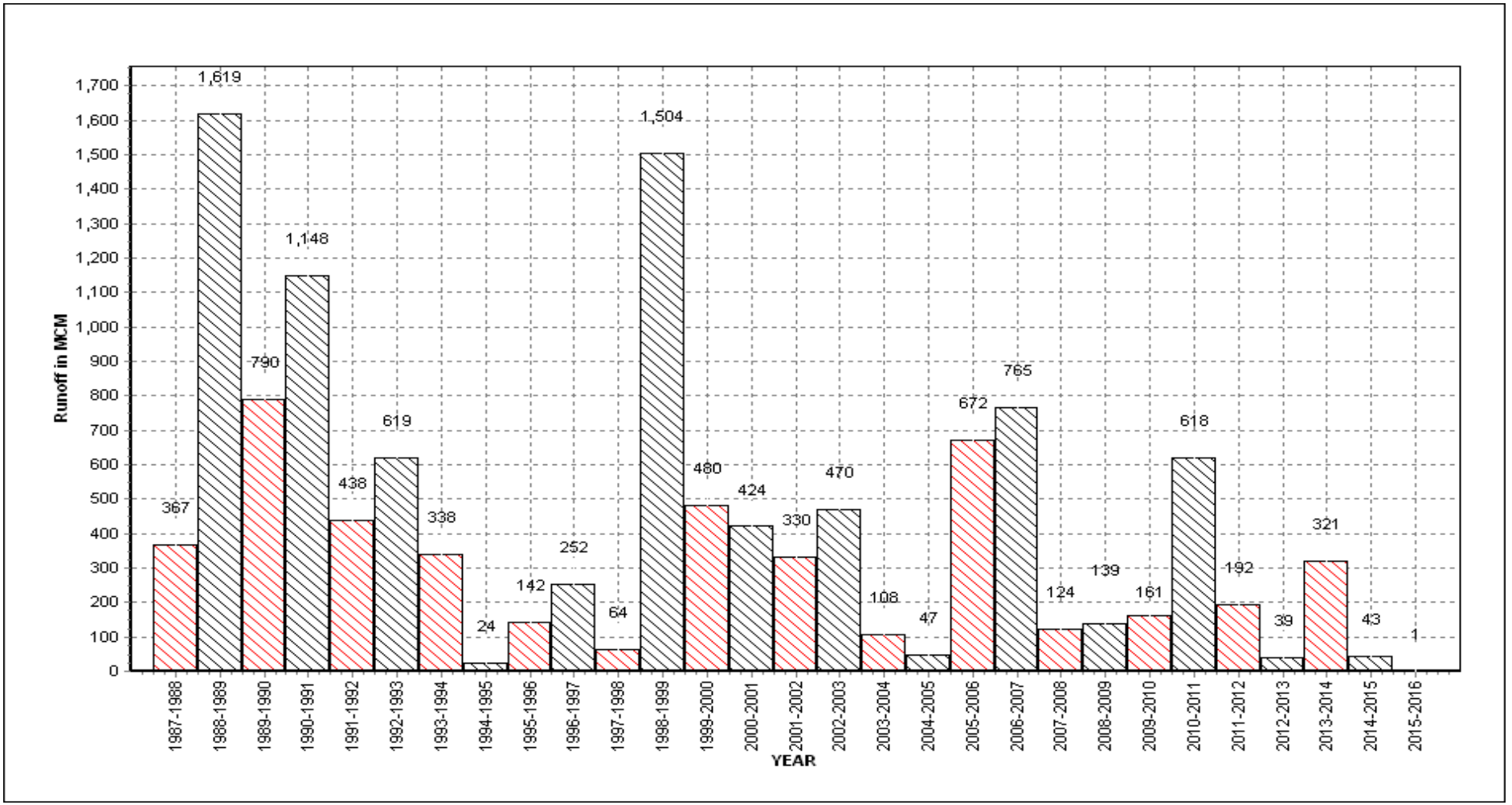
Annual Runoff Values for the period: 1987 - 2016

Station Name : Zari (AGR10C6)

Local River : Dudhna

Division : U Godavari Div., Hyderabad

Sub-Division : Purna SD, Nanded

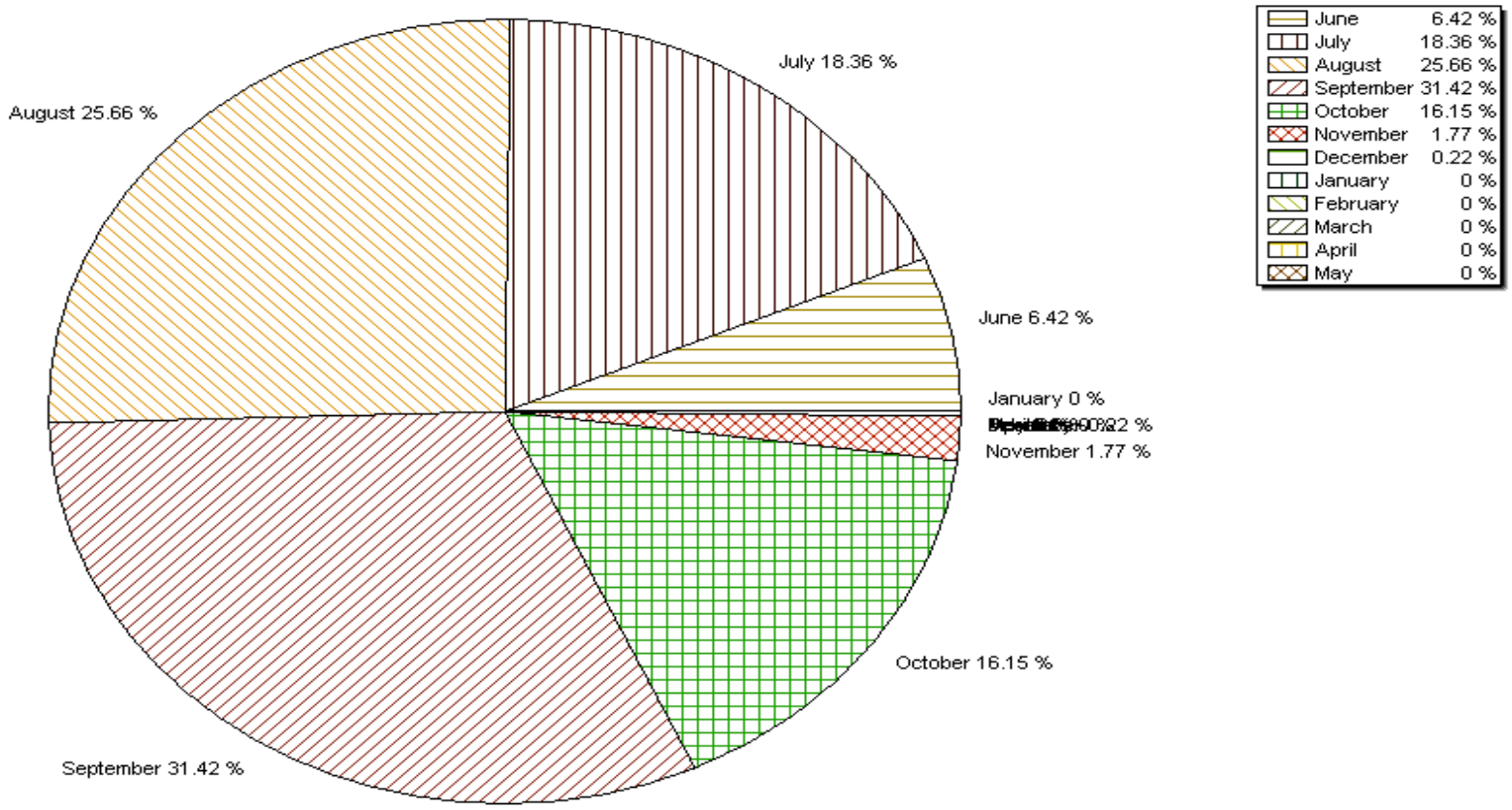


Note: Missing values have not been considered while arriving at Annual Runoff

Monthly Average Runoff based on period : 1987-2015

Station Name : Zari (AGR10C6) **Division : U Godavari Div., Hyderabad**

Local River : Dudhna **Sub-Division : Purna SD, Nanded**



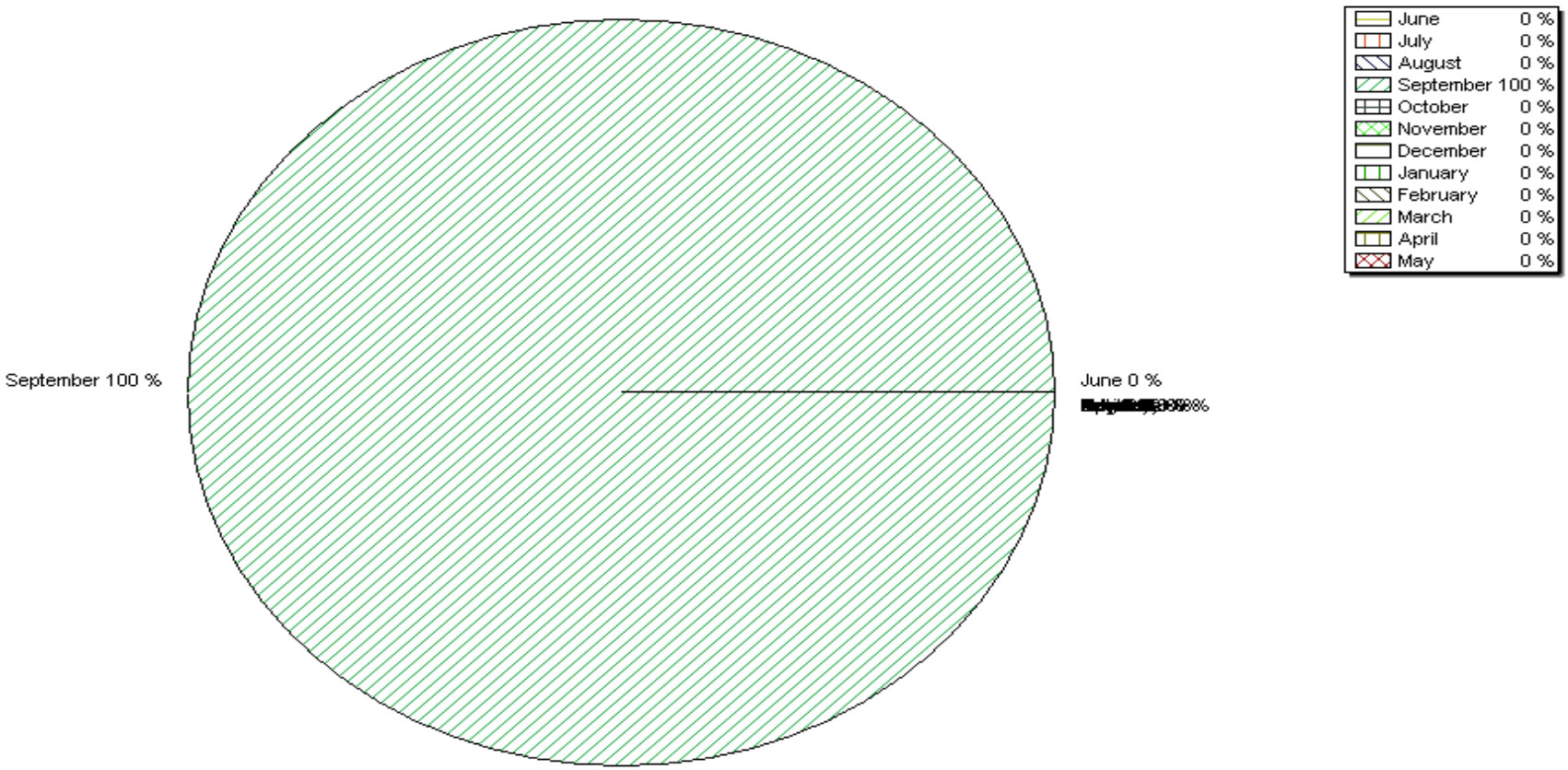
Monthly Runoff for the Year : 2015-2016

Station Name : Zari (AGR10C6)

Division : U Godavari Div., Hyderabad

Local River : Dudhna

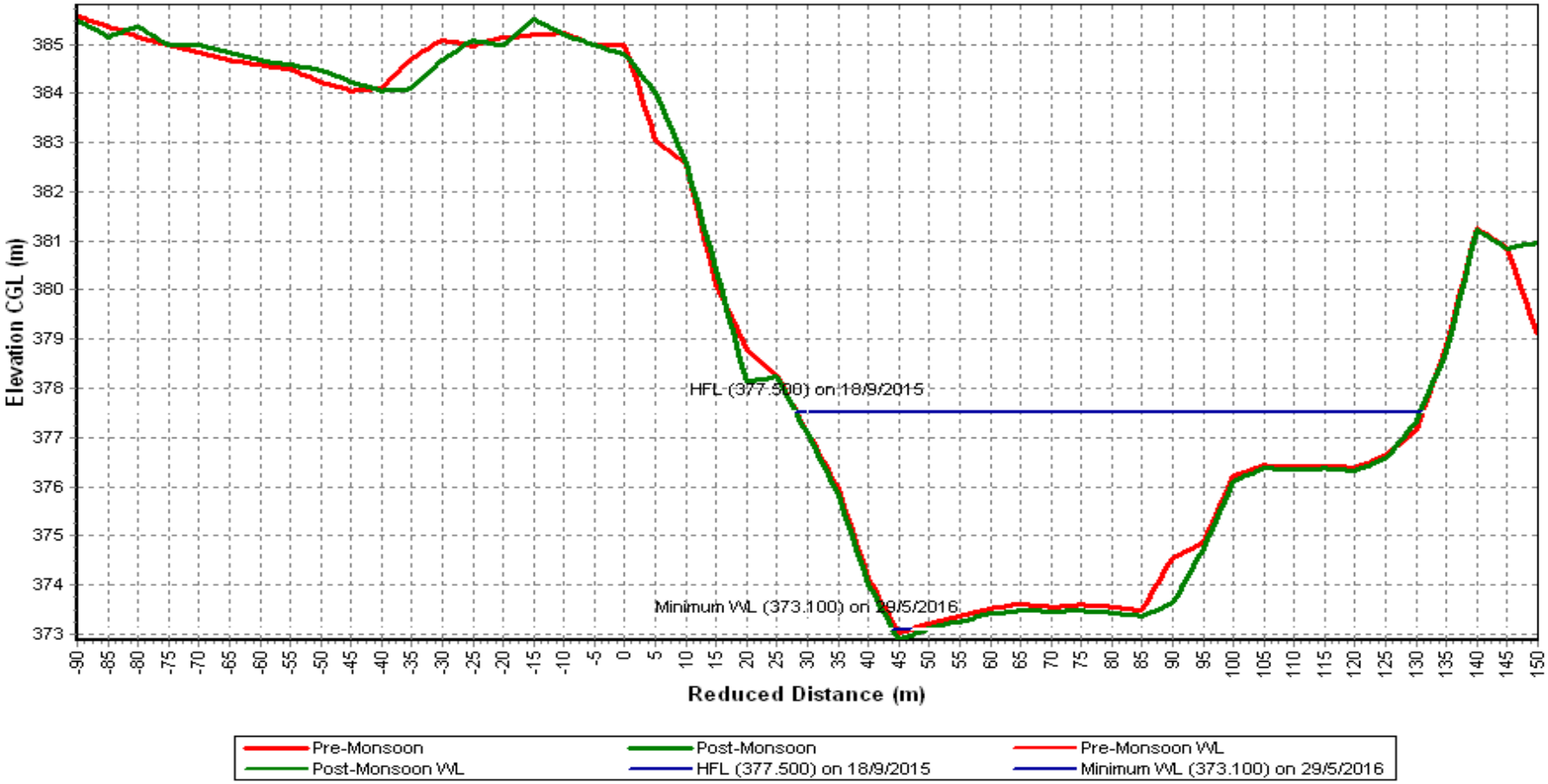
Sub-Division : Purna SD, Nanded



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

Station Name : Zari (AGR10C6) **Division : U Godavari Div., Hyderabad**

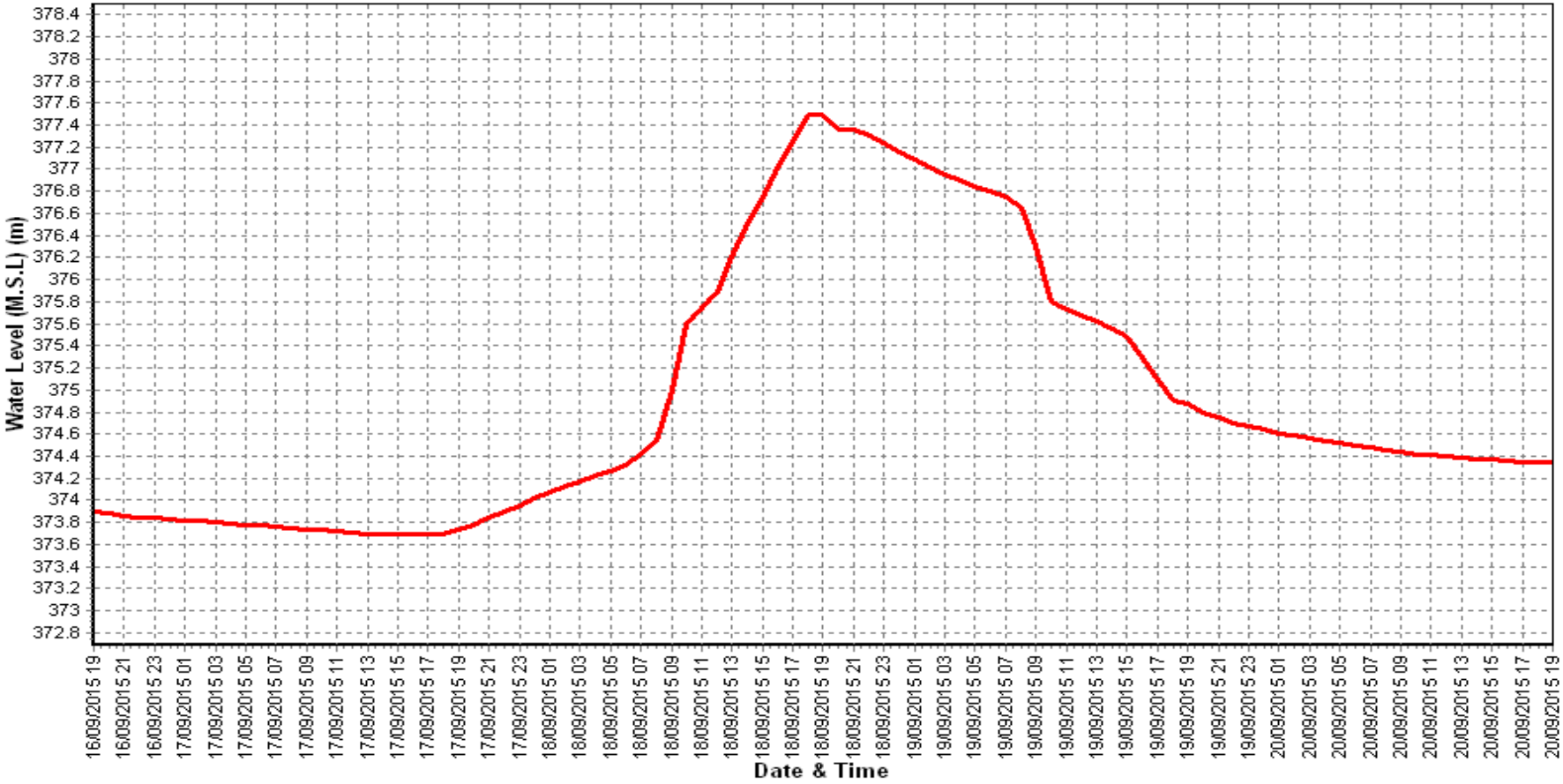
Local River : Dudhna **Sub-Division : Purna SD, Nanded**



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

Station Name : Zari (AGR10C6) **Division : U Godavari Div., Hyderabad**

Local River : Dudhna **Sub-Division : Purna SD, Nanded**

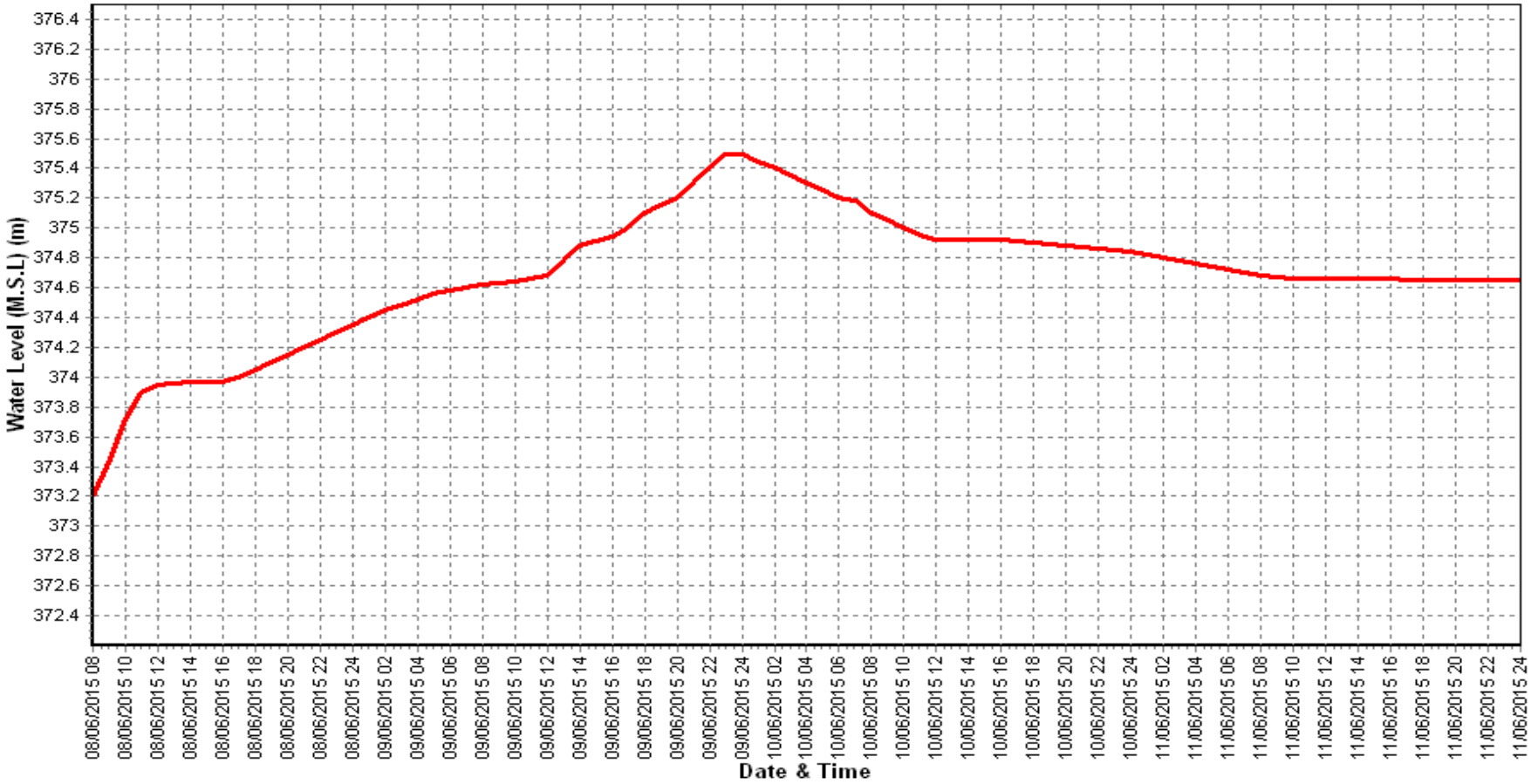


Time Span: 96 Hrs

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

Station Name : Zari (AGR10C6) **Division : U Godavari Div., Hyderabad**

Local River : Dudhna **Sub-Division : Purna SD, Nanded**

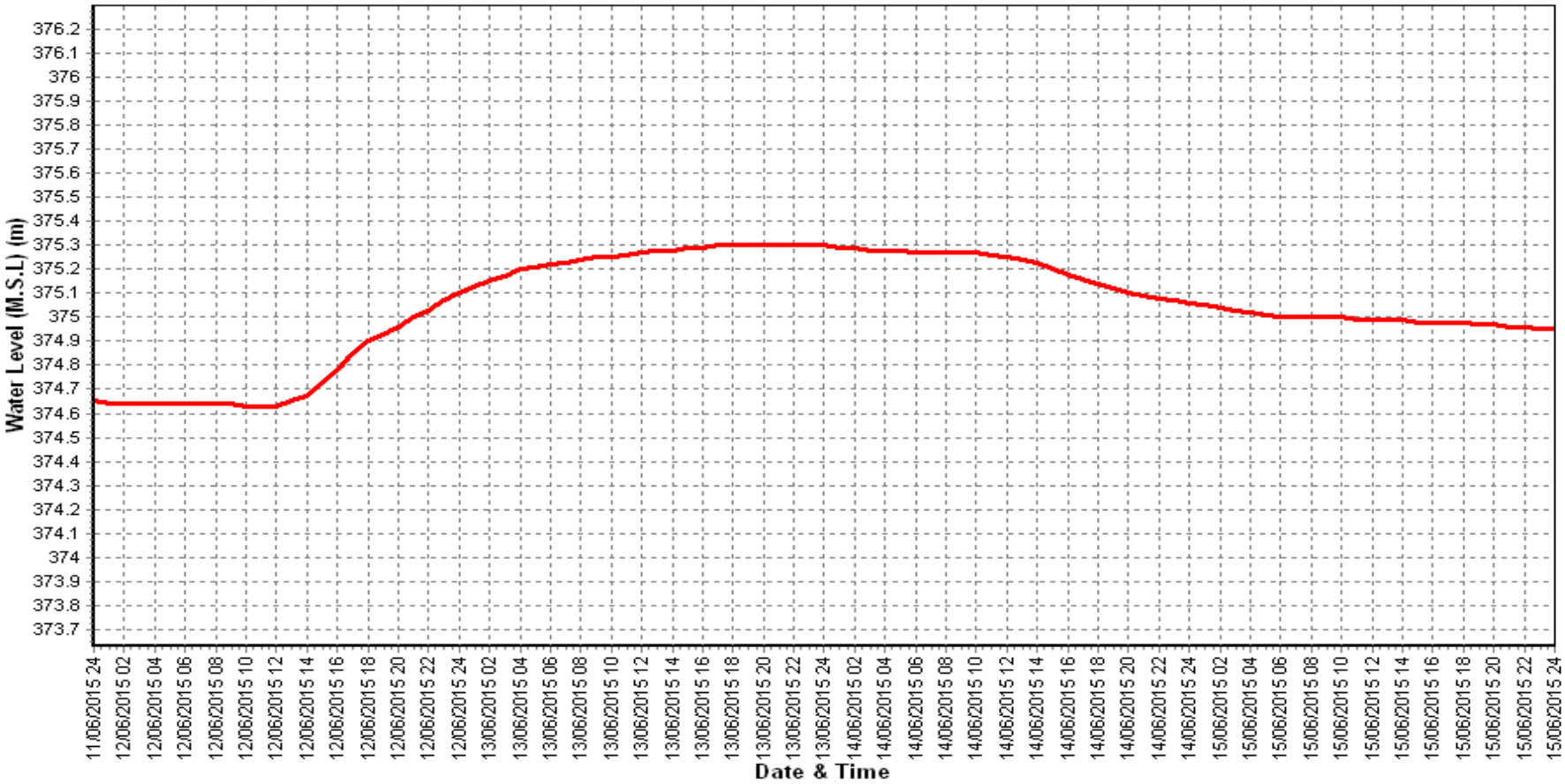


Time Span: 96 Hrs

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

Station Name : Zari (AGR10C6) **Division : U Godavari Div., Hyderabad**

Local River : Dudhna **Sub-Division : Purna SD, Nanded**



Time Span: 96 Hrs

HISTORY SHEET

Water Year : 2015-2016

Site	**: G.R.Bridge**		**Code**	**: AG000R6**	
State	: Maharashtra		District	Parbhani	
Basin	: Godavari		Independent River	: Godavari	
Tributary	: -		Sub Tributary	: --'	
Sub-Sub Tributary	: ---		Local River	: Godavari	
Division	: U Godavari Div., Hyderabad		Sub-Division	: Purna SD, Nanded	
Drainage Area	: 33934 Sq. Km.		Bank	: Left	
Latitude	: 19°01'20"		Longitude	: 76°43'45"	
Zero of Gauge (m)	: 364 (m.s.l)		1/1/1976	-	
	Opening Date		Closing Date		
Gauge	: 6/17/1976		**HFL During 2014-15**	**: 365.91**	
			Corres.Discharge	**: 0.000cumecs(No flow)**	
Discharge	: 6/19/1976		**Date & Time of**	**: 9/14/2015**	
			Occurance	**: 11.00 hrs.**	
Sediment	: 7/1/1976				
Water Quality	: 7/1/1976				

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

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1977-1978	1173	370.065	7/3/1977	0.800	365.125	6/6/1977
1978-1979	1474	370.932	6/15/1978	0.600	365.120	5/8/1979
1979-1980	2781	373.168	9/27/1979	1.000	365.150	6/13/1979
1980-1981	3027	372.705	8/26/1980	2.100	365.360	4/28/1981
1981-1982	1556	370.750	9/24/1981	3.400	365.360	1/28/1982
1982-1983	448.4	368.075	7/12/1982	2.400	365.335	5/11/1983
1983-1984	4676	374.925	9/16/1983	3.100	365.320	5/4/1984
1984-1985	1170	369.718	10/10/1984	4.000	365.360	3/7/1985
1985-1986	308.0	367.735	10/7/1985	0.000	364.960	4/27/1986
1986-1987	393.0	367.970	7/19/1986	0.000	365.265	1/25/1987
1987-1988	824.7	369.640	10/7/1987	0.000	365.140	3/15/1988
1988-1989	2334	373.050	9/30/1988	0.000	365.250	6/17/1988
1989-1990	4114	376.785	7/25/1989	4.535	365.545	3/30/1990
1990-1991	3451	376.105	10/15/1990	3.200	365.510	5/9/1991
1991-1992	1566	371.330	8/1/1991	0.000	365.185	5/20/1992
1992-1993	2501	373.830	9/3/1992	0.000	365.200	3/29/1993
1993-1994	248.0	367.450	8/5/1993	0.000	365.200	3/9/1994
1994-1995	2060	372.625	8/31/1994	0.000	365.370	4/16/1995
1995-1996	317.2	367.790	9/16/1995	0.000	365.140	1/26/1996
1996-1997	1301	370.350	9/16/1996	0.000		1/25/1997
1997-1998	142.6	366.820	9/23/1997	0.000	365.035	5/13/1998
1998-1999	4664	376.200	10/16/1998	0.000	365.330	2/24/1999

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**
1999-2000	1165	370.070	8/2/1999	0.000		2/9/2000
2000-2001	4764	375.800	8/25/2000	0.019	365.100	6/2/2000
2001-2002	1392	370.630	10/2/2001	0.000	364.840	1/25/2002
2002-2003	1061	369.675	8/25/2002	0.000	364.140	1/25/2003
2003-2004	322.0	367.400	7/20/2003	0.000		2/11/2004
2004-2005	101.0	366.430	9/25/2004	0.000	364.300	2/13/2005
2005-2006	4484	375.100	9/22/2005	0.000	364.680	7/10/2005
2006-2007	6222	378.370	8/14/2006	0.000	364.990	1/25/2007
2007-2008	1457	370.850	9/22/2007	0.000	364.500	6/13/2007
2008-2009	3507	374.020	9/22/2008	0.000	365.480	1/25/2009
2009-2010	325.1	367.890	8/26/2009	0.000	364.710	1/25/2010
2010-2011	452.8	368.360	9/16/2010	0.000	365.870	1/25/2011
2011-2012	354.7	367.650	8/27/2011	0.000	367.900	1/26/2012
2012-2013	470.1	368.025	9/4/2012	0.000	366.480	11/30/2012
2013-2014	429.3	367.620	7/18/2013	0.000	369.240	1/19/2014
2014-2015	143.8	367.920	9/5/2014	0.000	365.350	2/23/2015

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

Stage-Discharge Data for the period 2015 - 2016

Station Name : G.R.Bridge (AG000R6) **Division : U Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Purna SD, Nanded**

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	364.000	0.000	364.000	0.000	364.000	0.000	364.220	0.000	365.670	0.000	364.650	0.000
2	364.000	0.000	364.000	0.000	364.000	0.000	364.210	0.000	365.640	0.000	364.640	0.000
3	364.000	0.000	364.000	0.000	364.000	0.000	364.200	0.000	365.610	0.000	364.630	0.000
4	364.000	0.000	364.000	0.000	364.000	0.000	364.200	0.000	365.580	0.000	364.610	0.000
5	364.000	0.000	364.000	0.000	364.000	0.000	364.190	0.000	365.550	0.000	364.590	0.000
6	364.000	0.000	364.000	0.000	364.000	0.000	364.180	0.000	365.520	0.000	364.570	0.000
7	364.000	0.000	364.000	0.000	364.000	0.000	364.170	0.000	365.490	0.000	364.550	0.000
8	364.000	0.000	364.000	0.000	364.000	0.000	364.170	0.000	365.460	0.000	364.520	0.000
9	364.000	0.000	364.000	0.000	364.000	0.000	364.260	0.000	365.430	0.000	364.500	0.000
10	364.000	0.000	364.000	0.000	364.000	0.000	365.210	0.000	365.390	0.000	364.480	0.000
11	364.000	0.000	364.000	0.000	364.000	0.000	365.280	0.000	365.360	0.000	364.460	0.000
12	364.000	0.000	364.000	0.000	364.000	0.000	365.260	0.000	365.330	0.000	364.440	0.000
13	364.000	0.000	364.000	0.000	364.000	0.000	365.640	0.000	365.300	0.000	364.420	0.000
14	364.000	0.000	364.000	0.000	364.330	0.000	365.900	0.000	365.280	0.000	364.400	0.000
15	364.000	0.000	364.000	0.000	364.360	0.000	365.900	0.000	365.250	0.000	364.380	0.000
16	364.000	0.000	364.000	0.000	364.360	0.000	365.890	0.000	365.230	0.000	364.360	0.000
17	364.000	0.000	364.000	0.000	364.350	0.000	365.860	0.000	365.200	0.000	364.340	0.000
18	364.000	0.000	364.000	0.000	364.330	0.000	365.880	0.000	365.160	0.000	364.320	0.000
19	364.000	0.000	364.000	0.000	364.320	0.000	365.880	0.000	365.140	0.000	364.300	0.000
20	364.000	0.000	364.000	0.000	364.310	0.000	365.860	0.000	365.100	0.000	364.290	0.000
21	364.000	0.000	364.000	0.000	364.280	0.000	365.850	0.000	365.060	0.000	364.270	0.000
22	364.000	0.000	364.000	0.000	364.270	0.000	365.840	0.000	365.010	0.000	364.250	0.000
23	364.000	0.000	364.000	0.000	364.250	0.000	365.830	0.000	364.880	0.000	364.230	0.000
24	364.000	0.000	364.000	0.000	364.230	0.000	365.830	0.000	364.840	0.000	364.210	0.000
25	364.000	0.000	364.000	0.000	364.220	0.000	365.820	0.000	364.810	0.000	364.190	0.000
26	364.000	0.000	364.000	0.000	364.210	0.000	365.800	0.000	364.780	0.000	364.170	0.000
27	364.000	0.000	364.000	0.000	364.230	0.000	365.790	0.000	364.750	0.000	364.150	0.000
28	364.000	0.000	364.000	0.000	364.270	0.000	365.760	0.000	364.730	0.000	364.140	0.000
29	364.000	0.000	364.000	0.000	364.250	0.000	365.730	0.000	364.710	0.000	364.120	0.000
30	364.000	0.000	364.000	0.000	364.240	0.000	365.700	0.000	364.690	0.000	364.100	0.000
31			364.000	0.000	364.230	0.000			364.670	0.000		
en-Daily Mean												
I Ten-Daily	364.000	0.000	364.000	0.000	364.000	0.000	364.301	0.000	365.534	0.000	364.574	0.000
II Ten-Daily	364.000	0.000	364.000	0.000	364.236	0.000	365.735	0.000	365.235	0.000	364.371	0.000
III Ten-Daily	364.000	0.000	364.000	0.000	364.244	0.000	365.795	0.000	364.812	0.000	364.183	0.000
Monthly												
Min.	364.000	0.000	364.000	0.000	364.000	0.000	364.170	0.000	364.670	0.000	364.100	0.000
Max.	364.000	0.000	364.000	0.000	364.360	0.000	365.900	0.000	365.670	0.000	364.650	0.000
Mean	364.000	0	364.000	0	364.163	0	365.277	0	365.181	0	364.376	0

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

Peak Observed Discharge = 0.000 cumecs on 01/06/2015 Corres. Water Level :364 m

Lowest Observed Discharge = 0.000 cumecs on 01/06/2015 Corres. Water Level :364 m

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 : G.R.Bridge (AG000R6) **Division : U Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Purna SD, Nanded**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	364.090	0.000	364.000	0.000	364.000	0.000	364.000	0.000	364.890	0.000	364.380	0.000
2	364.070	0.000	364.000	0.000	364.000	0.000	364.000	0.000	364.870	0.000	364.360	0.000
3	364.060	0.000	364.000	0.000	364.000	0.000	364.000	0.000	364.850	0.000	364.350	0.000
4	364.040	0.000	364.000	0.000	364.000	0.000	364.000	0.000	364.840	0.000	364.340	0.000
5	364.020	0.000	364.000	0.000	364.000	0.000	364.000	0.000	364.830	0.000	364.330	0.000
6	364.010	0.000	364.000	0.000	364.000	0.000	364.000	0.000	364.810	0.000	364.320	0.000
7	364.000	0.000	364.000	0.000	364.000	0.000	364.000	0.000	364.800	0.000	364.310	0.000
8	364.000	0.000	364.000	0.000	364.000	0.000	364.000	0.000	364.780	0.000	364.300	0.000
9	364.000	0.000	364.000	0.000	364.000	0.000	364.000	0.000	364.750	0.000	364.290	0.000
10	364.000	0.000	364.000	0.000	364.000	0.000	364.000	0.000	364.740	0.000	364.280	0.000
11	364.000	0.000	364.000	0.000	364.000	0.000	364.000	0.000	364.720	0.000	364.270	0.000
12	364.000	0.000	364.000	0.000	364.000	0.000	364.000	0.000	364.710	0.000	364.260	0.000
13	364.000	0.000	364.000	0.000	364.000	0.000	364.000	0.000	364.680	0.000	364.250	0.000
14	364.000	0.000	364.000	0.000	364.000	0.000	364.000	0.000	364.660	0.000	364.240	0.000
15	364.000	0.000	364.000	0.000	364.000	0.000	364.000	0.000	364.640	0.000	364.230	0.000
16	364.000	0.000	364.000	0.000	364.000	0.000	364.450	0.000	364.620	0.000	364.220	0.000
17	364.000	0.000	364.000	0.000	364.000	0.000	364.680	0.000	364.600	0.000	364.210	0.000
18	364.000	0.000	364.000	0.000	364.000	0.000	365.000	0.000	364.570	0.000	364.200	0.000
19	364.000	0.000	364.000	0.000	364.000	0.000	365.310	0.000	364.550	0.000	364.190	0.000
20	364.000	0.000	364.000	0.000	364.000	0.000	365.210	0.000	364.540	0.000	364.180	0.000
21	364.000	0.000	364.000	0.000	364.000	0.000	365.150	0.000	364.520	0.000	364.170	0.000
22	364.000	0.000	364.000	0.000	364.000	0.000	365.110	0.000	364.500	0.000	364.140	0.000
23	364.000	0.000	364.000	0.000	364.000	0.000	365.080	0.000	364.480	0.000	364.110	0.000
24	364.000	0.000	364.000	0.000	364.000	0.000	365.050	0.000	364.470	0.000	364.080	0.000
25	364.000	0.000	364.000	0.000	364.000	0.000	365.020	0.000	364.460	0.000	364.050	0.000
26	364.000	0.000	364.000	0.000	364.000	0.000	365.000	0.000	364.450	0.000	364.020	0.000
27	364.000	0.000	364.000	0.000	364.000	0.000	364.990	0.000	364.440	0.000	364.000	0.000
28	364.000	0.000	364.000	0.000	364.000	0.000	364.970	0.000	364.430	0.000	364.000	0.000
29	364.000	0.000	364.000	0.000	364.000	0.000	364.950	0.000	364.410	0.000	364.000	0.000
30	364.000	0.000	364.000	0.000			364.930	0.000	364.390	0.000	364.000	0.000
31	364.000	0.000	364.000	0.000			364.910	0.000			364.000	0.000
n-Daily Mea												
I Ten-Daily	364.029	0.000	364.000	0.000	364.000	0.000	364.000	0.000	364.816	0.000	364.326	0.000
II Ten-Daily	364.000	0.000	364.000	0.000	364.000	0.000	364.465	0.000	364.629	0.000	364.225	0.000
III Ten-Daily	364.000	0.000	364.000	0.000	364.000	0.000	365.015	0.000	364.455	0.000	364.052	0.000
Monthly												
Min.	364.000	0.000	364.000	0.000	364.000	0.000	364.000	0.000	364.390	0.000	364.000	0.000
Max.	364.090	0.000	364.000	0.000	364.000	0.000	365.310	0.000	364.890	0.000	364.380	0.000
Mean	364.009	0	364.000	0	364.000	0	364.510	0	364.633	0	364.196	0

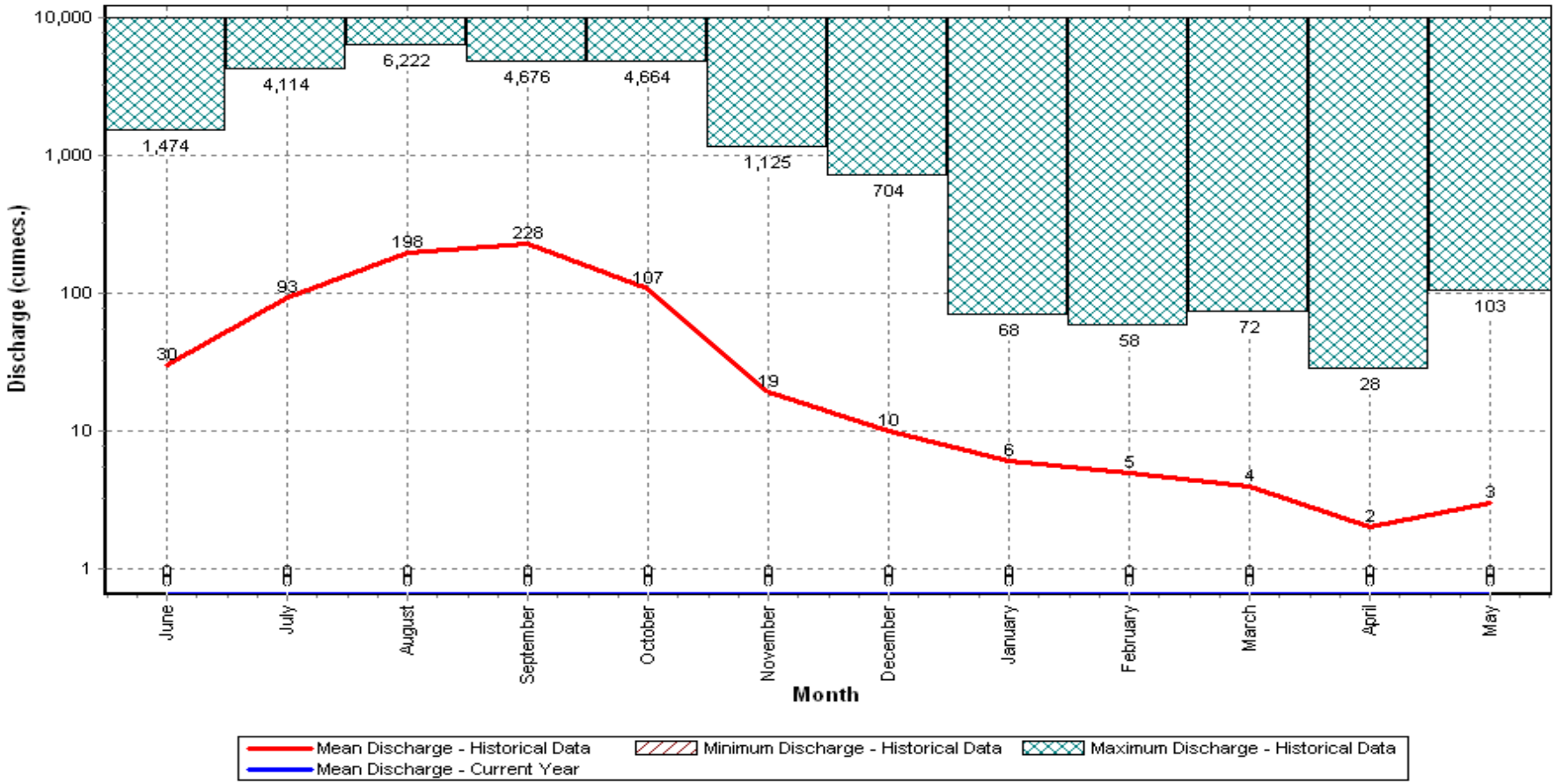
Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016

Station Name : G.R.Bridge (AG000R6) | **Data considered : 1977-2016** | **Division : U Godavari Div., Hyderabad**

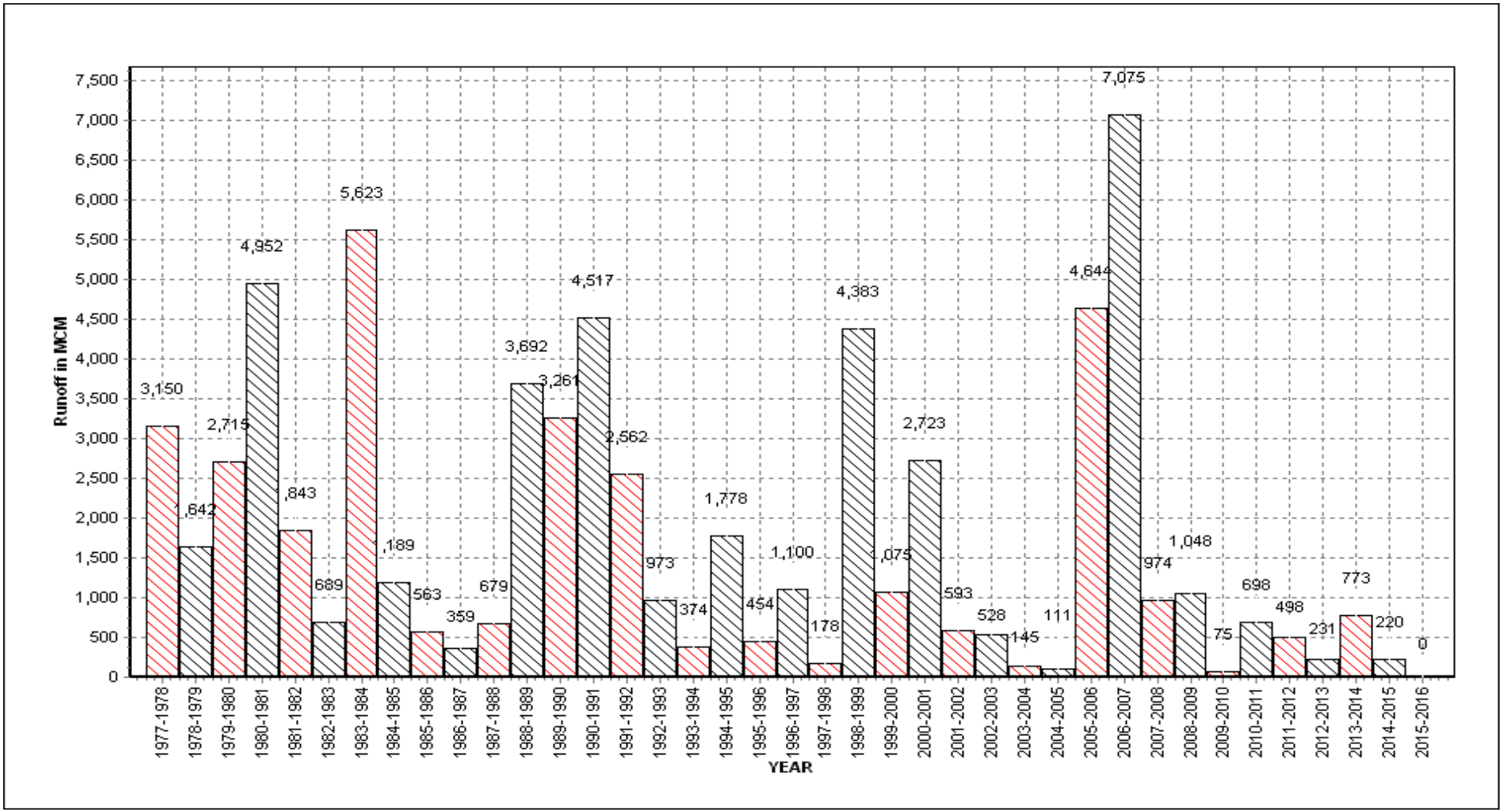
Local River : Godavari | **Sub-Division : Purna SD, Nanded**



Annual Runoff Values for the period: 1977 - 2016

Station Name : G.R.Bridge (AG000R6) **Division : U Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Purna SD, Nanded**

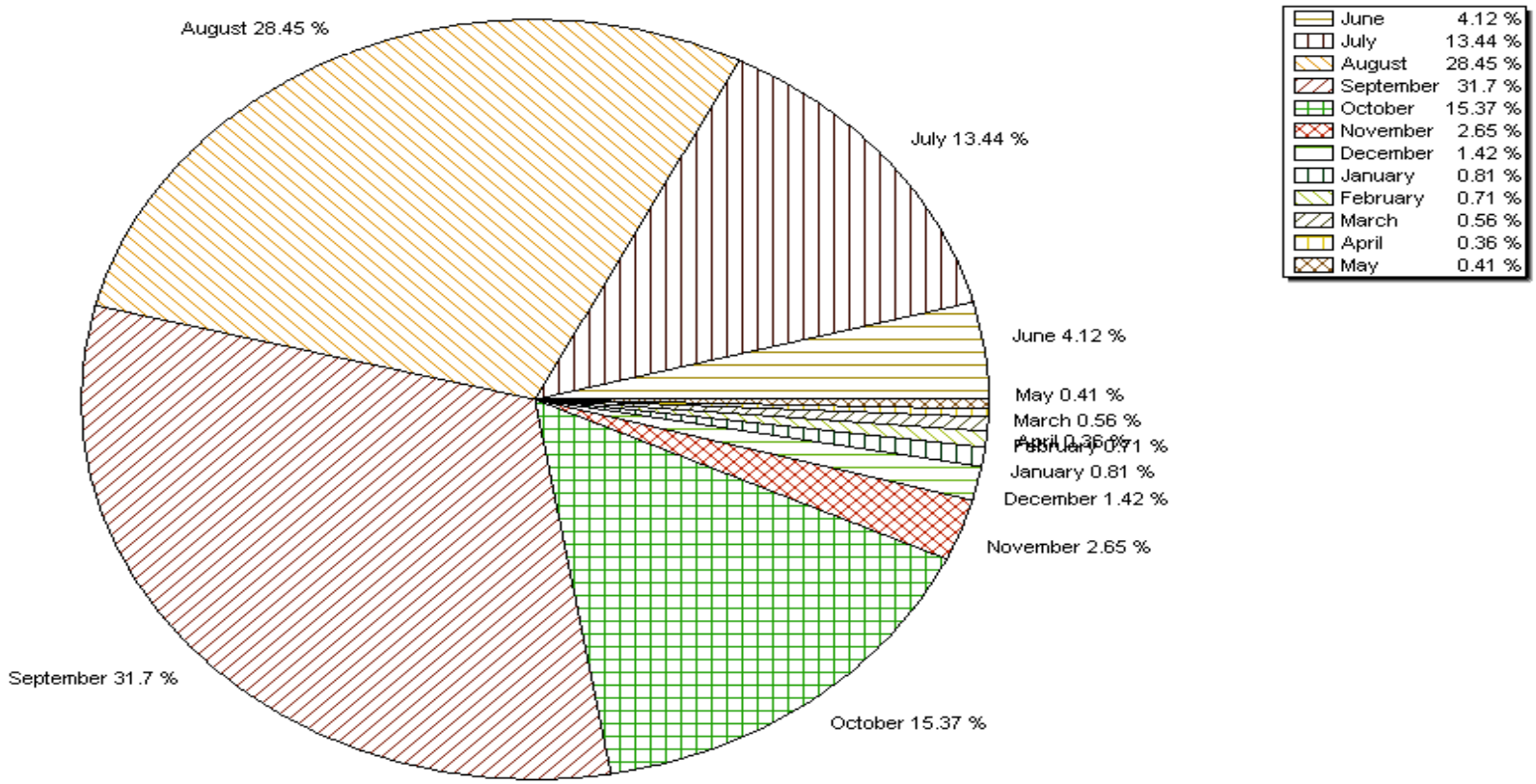


Note: Missing values have not been considered while arriving at Annual Runoff

Monthly Average Runoff based on period : 1977-2015

Station Name : G.R.Bridge (AG000R6) **Division : U Godavari Div., Hyderabad**

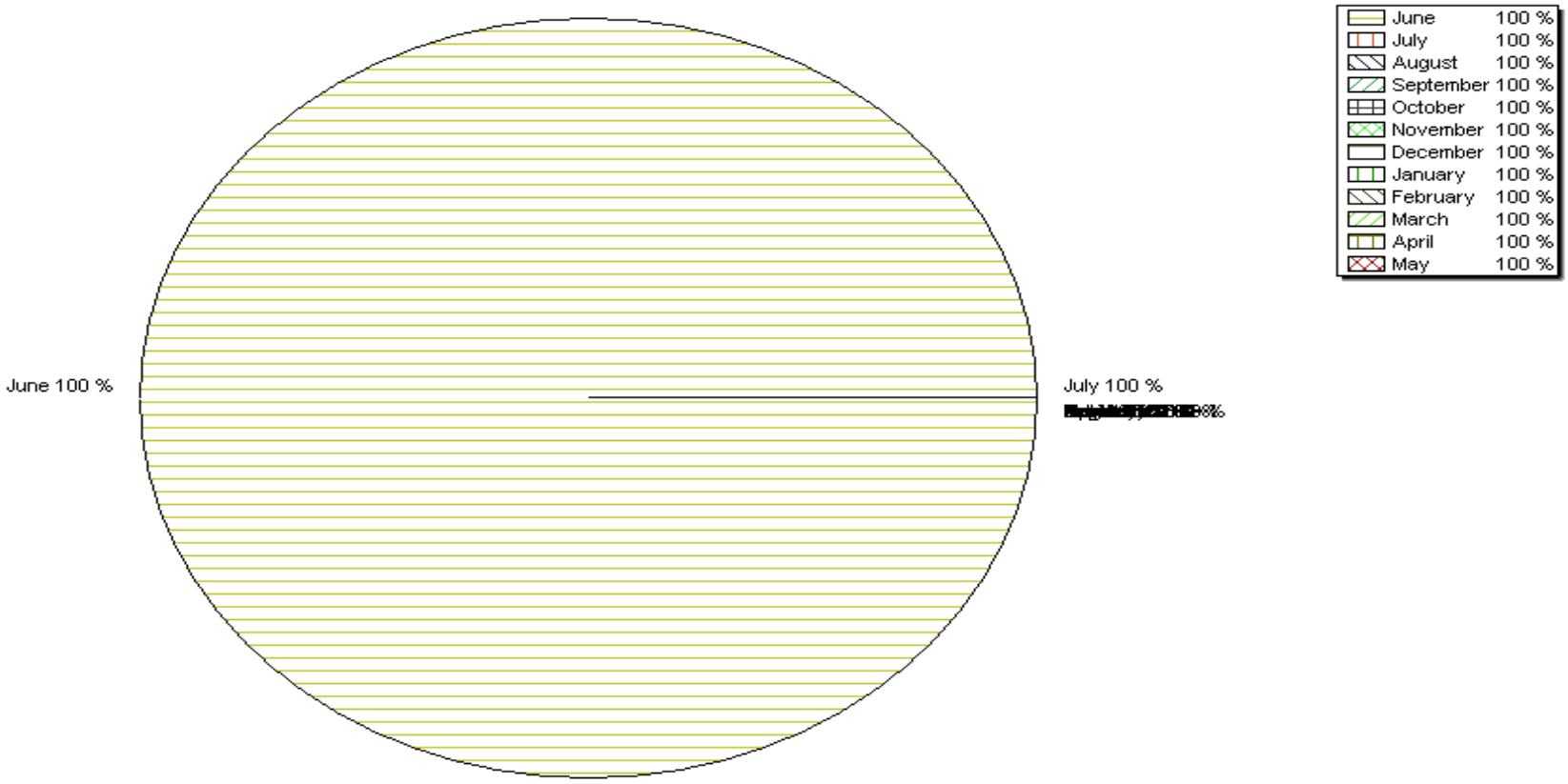
Local River : Godavari **Sub-Division : Purna SD, Nanded**



Monthly Runoff for the Year : 2015-2016

Station Name : G.R.Bridge (AG000R6) **Division : U Godavari Div., Hyderabad**

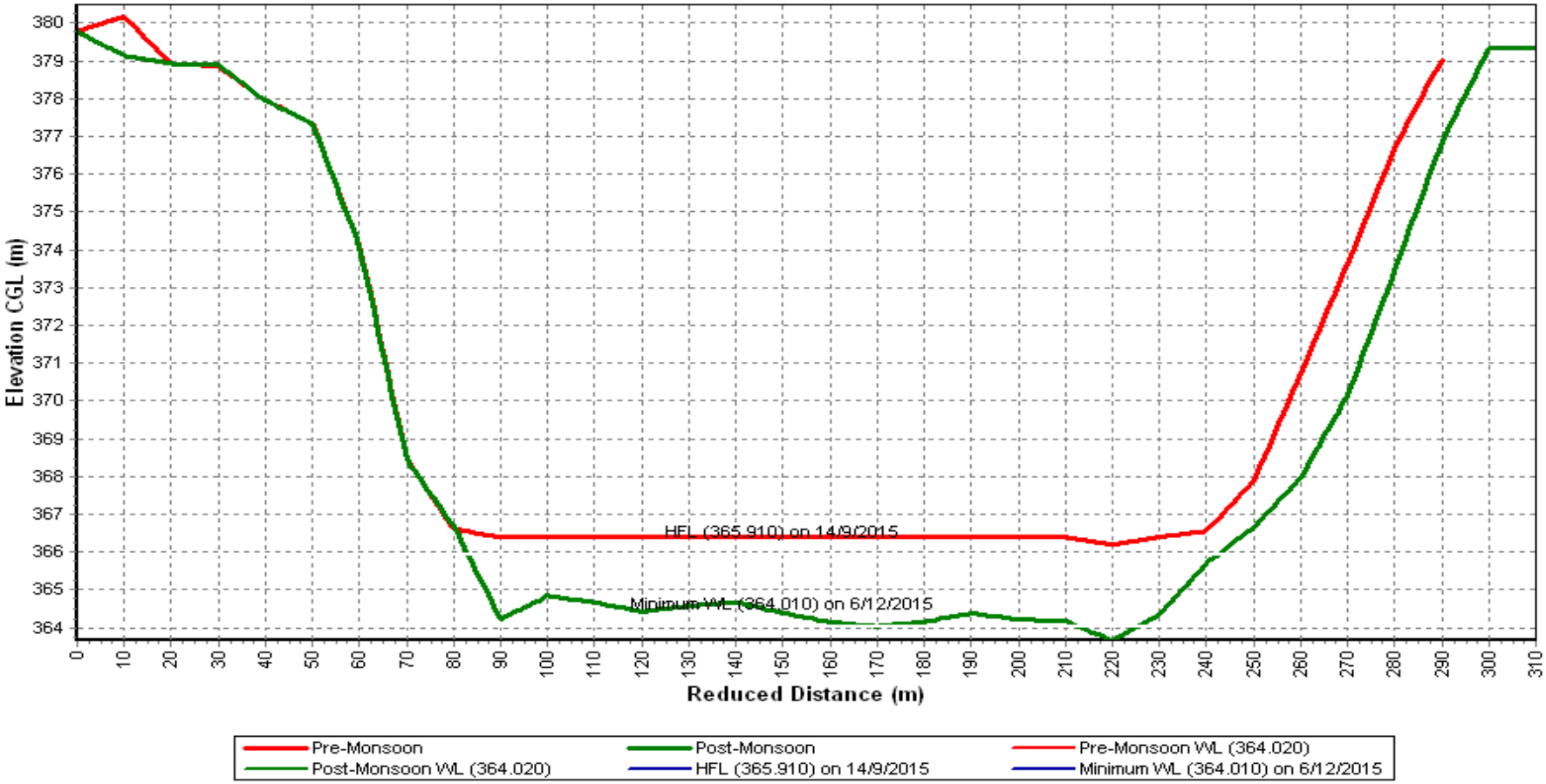
Local River : Godavari **Sub-Division : Purna SD, Nanded**



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

Station Name : G.R.Bridge (AG000R6) **Division : U Godavari Div., Hyderabad**

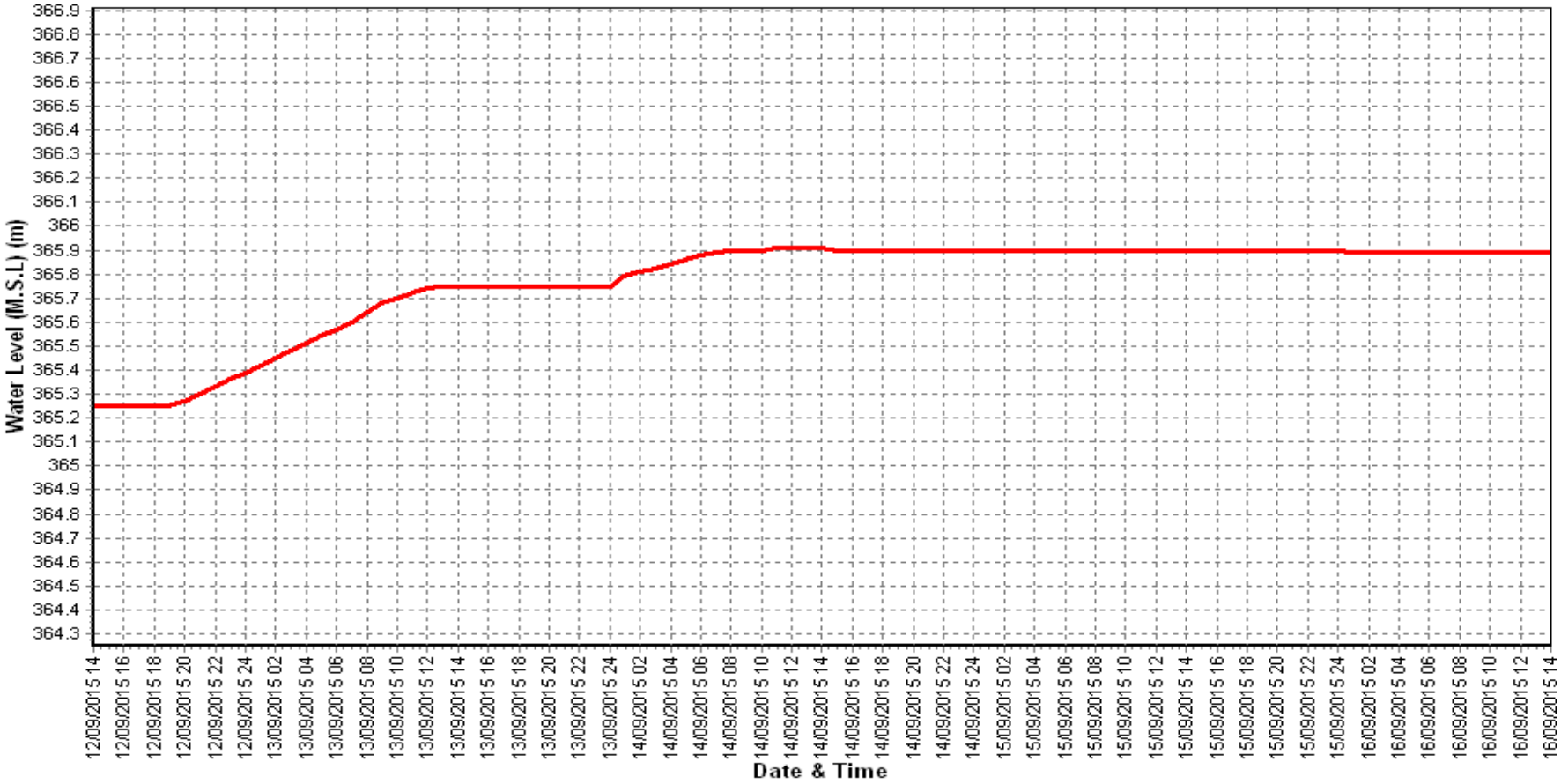
Local River : Godavari **Sub-Division : Purna SD, Nanded**



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

Station Name : G.R.Bridge (AG000R6) **Division : U Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Purna SD, Nanded**

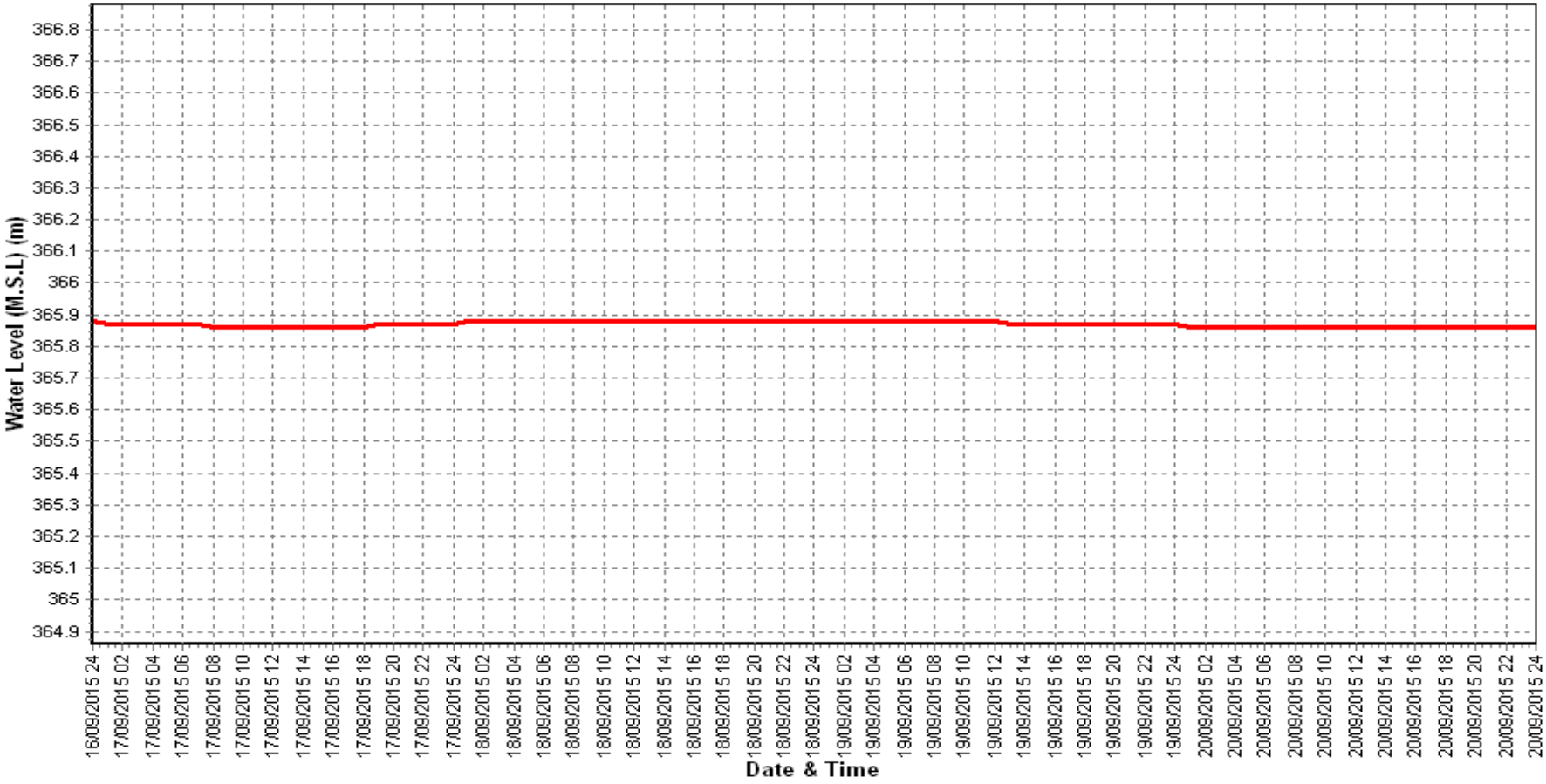


Time Span: 96 Hrs

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

Station Name : G.R.Bridge (AG000R6) **Division : U Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Purna SD, Nanded**

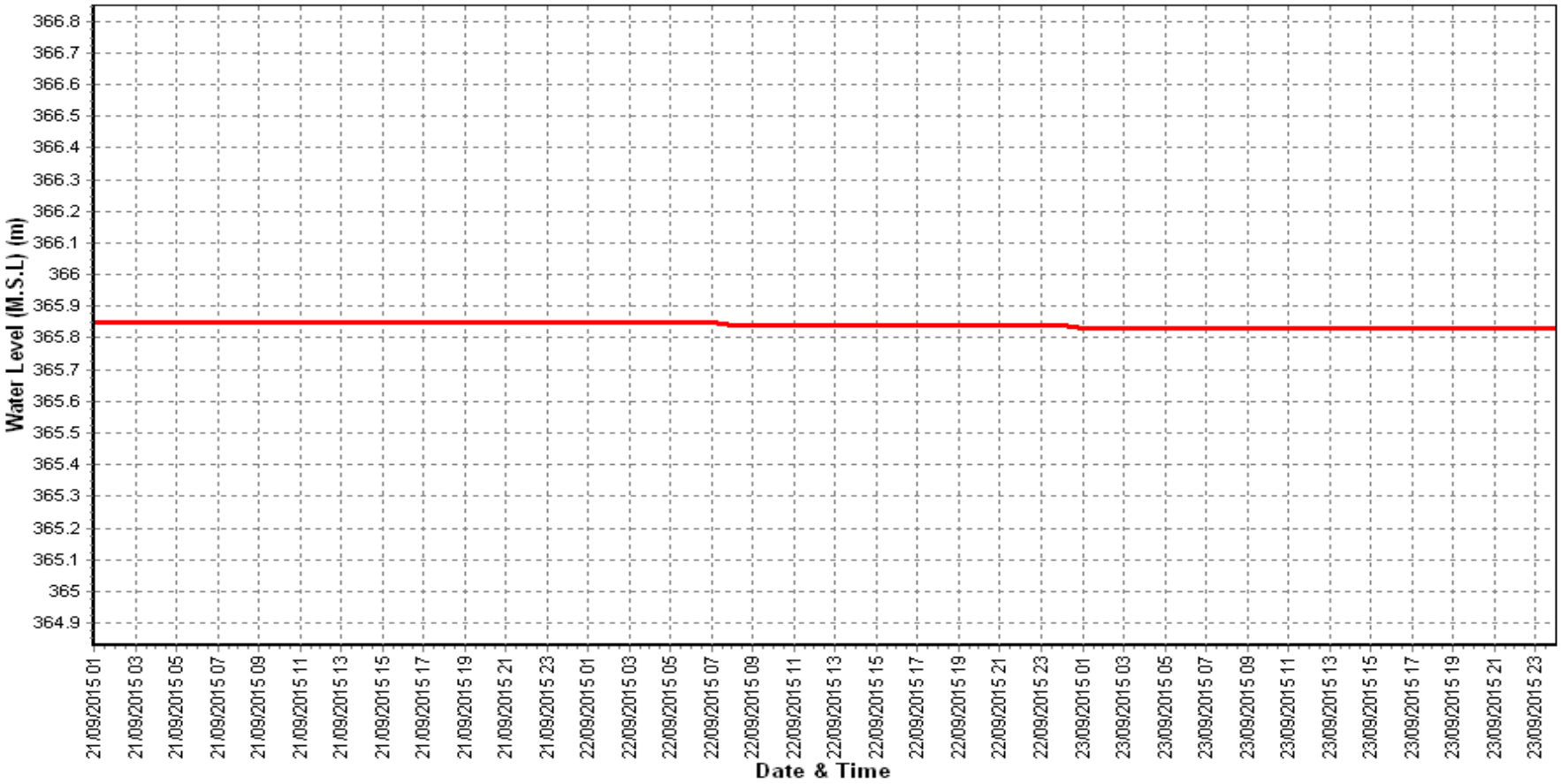


Time Span: 96 Hrs

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

Station Name : G.R.Bridge (AG000R6) **Division : U Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Purna SD, Nanded**



Time Span: 96 Hrs

HISTORY SHEET

Water Year : 2015-2016

Site	:	**Dhalegaon**	**Code**	:	**AG000S9**
State	:	Maharashtra	District		Parbhani
Basin	:	Godavari	Independent River	:	Godavari
Tributary	:	-	Sub Tributary	:	
Sub-Sub Tributary	:	-	Local River	:	Godavari
Division	:	U Godavari Div., Hyderabad	Sub-Division	:	U Godavari SD, Aurangabad
Drainage Area	:	30840 Sq. Km.	Bank	:	Left
Latitude	:	19°13'13"	Longitude	:	76°21'52"
Zero of Gauge (m)	:	386.575 (m.s.l)	1/4/1964		
		Opening Date	Closing Date		
Gauge	:	1/4/1964	**HFL During 2015-16**	:	**0(DRY BED)**
Discharge	:	8/16/1964	**Corres.Discharge**	:	**0.000cumecs(Observed)**
Sediment	:	7/11/1971			
Water Quality	:	7/1/1972			

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

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1965-1966	4018	395.220	8/21/1965	0.265	387.175	5/1/1966
1966-1967	3590	395.088	7/31/1966	0.013	387.010	5/30/1967
1967-1968	4054	396.193	8/1/1967	0.127	386.990	6/11/1967
1968-1969	4460	396.875	8/9/1968	0.040	386.975	5/31/1969
1969-1970	6173	398.840	9/14/1969	0.271	386.970	6/2/1969
1970-1971	3043	394.400	8/22/1970	0.392	387.090	5/16/1971
1971-1972	3082	394.935	10/2/1971	0.090	387.150	6/1/1971
1972-1973	776.5	390.618	8/24/1972	0.000	386.895	6/14/1972
1973-1974	2609	394.060	7/3/1973	0.000	386.900	6/2/1973
1974-1975	1252	391.310	10/16/1974	0.180	387.120	5/29/1975
1975-1976	3209	394.920	9/24/1975	0.230	387.225	5/25/1976
1976-1977	4586	395.623	8/4/1976	0.340	387.240	6/2/1976
1977-1978	1071	391.663	7/3/1977	1.100	387.150	6/9/1977
1978-1979	2196	393.390	6/15/1978	0.600	387.160	5/3/1979
1979-1980	2947	394.493	9/26/1979	1.150	387.190	6/8/1979
1980-1981	2535	394.030	8/26/1980	0.199	387.350	6/1/1980
1981-1982	2272	392.985	9/23/1981	2.675	387.505	7/22/1981
1982-1983	1049	391.273	7/11/1982	2.100	387.445	5/7/1983
1983-1984	4139	395.485	9/28/1983	3.736	387.540	6/1/1983
1984-1985	717.6	390.535	10/11/1984	4.500	387.265	3/8/1985
1985-1986	348.0	389.620	10/6/1985	0.500	387.065	5/30/1986
1986-1987	809.7	390.535	7/18/1986	0.000	386.930	5/3/1987

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**
1987-1988	677.1	390.560	10/6/1987	0.000	386.815	6/12/1987
1988-1989	2389	393.755	9/29/1988	1.059	387.240	6/2/1988
1989-1990	6732	398.065	7/25/1989	3.923	387.465	11/10/1989
1990-1991	4691	397.135	10/14/1990	3.031	387.275	2/25/1991
1991-1992	1972	392.815	8/1/1991	0.443	387.105	4/28/1992
1992-1993	2074	392.845	9/2/1992	0.000	386.680	5/16/1993
1993-1994	181.3	388.935	8/4/1993	0.000	386.725	6/29/1993
1994-1995	2196	393.555	9/8/1994	0.000	387.185	6/26/1994
1995-1996	228.9	389.060	9/16/1995	0.000		3/17/1996
1996-1997	2092	393.375	9/16/1996	0.000	387.080	2/1/1997
1997-1998	86.59	388.110	9/25/1997	0.000		3/8/1998
1998-1999	4467	396.875	10/16/1998	0.000	387.015	7/16/1998
1999-2000	1257	392.100	10/14/1999	0.000	387.025	5/3/2000
2000-2001	3328	395.835	8/25/2000	0.000	387.005	4/25/2001
2001-2002	638.4	390.225	10/2/2001	0.000		2/14/2002
2002-2003	519.7	389.715	9/6/2002	0.000		1/25/2003
2003-2004	287.7	389.210	8/8/2003	0.000	386.715	9/9/2003
2004-2005	135.4	388.575	9/24/2004	0.000		1/25/2005
2005-2006	4886	397.125	9/22/2005	0.000		5/3/2006
2006-2007	7652	399.855	8/13/2006	0.000		6/23/2006
2007-2008	1630	392.625	9/22/2007	0.000		3/24/2008
2008-2009	2976	395.505	9/21/2008	0.000	386.825	1/25/2009
2009-2010	320.5	389.485	8/25/2009	0.000		1/24/2010
2010-2011	744.3	390.925	7/4/2010	0.000	386.675	1/25/2011
2011-2012	348.4	389.575	8/26/2011	0.000		1/26/2012
2012-2013	0.000		1/9/2013	0.000	386.675	8/13/2012
2013-2014	0.000	386.815	8/15/2013	0.000	386.695	9/5/2013
2014-2015	0.000	386.675	10/4/2014	0.000	386.575	1/25/2015

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

Stage-Discharge Data for the period 2015 - 2016

Station Name : Dhalegaon (AG000S9) **Division : U Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : U Godavari SD, Aurangabad**

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	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
2	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
3	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
4	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
5	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
6	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
7	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
8	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
9	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
10	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
11	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
12	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
13	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
14	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
15	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
16	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
17	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
18	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
19	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
20	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
21	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
22	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
23	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
24	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
25	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
26	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
27	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
28	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
29	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
30	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
31			386.575	0.000	386.575	0.000			386.575	0.000		
n-Daily Mean												
I Ten-Daily	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
II Ten-Daily	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
III Ten-Daily	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
Monthly												
Min.	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
Max.	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
Mean	386.575	0	386.575	0	386.575	0	386.575	0	386.575	0	386.575	0

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

Peak Observed Discharge = 0.000 cumecs on 01/06/2015 Corres. Water Level :386.575 m

Lowest Observed Discharge = 0.000 cumecs on 01/06/2015 Corres. Water Level :386.575 m

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 : Dhalegaon (AG000S9) **Division : U Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : U Godavari SD, Aurangabad**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
2	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
3	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
4	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
5	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
6	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
7	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
8	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
9	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
10	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
11	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
12	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
13	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
14	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
15	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
16	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
17	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
18	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
19	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
20	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
21	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
22	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
23	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
24	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
25	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
26	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
27	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
28	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
29	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
30	386.575	0.000	386.575	0.000			386.575	0.000	386.575	0.000	386.575	0.000
31	386.575	0.000	386.575	0.000			386.575	0.000			386.575	0.000
n-Daily Me												
I Ten-Daily	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
II Ten-Daily	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
III Ten-Daily	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
Monthly												
Min.	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
Max.	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000	386.575	0.000
Mean	386.575	0	386.575	0	386.575	0	386.575	0	386.575	0	386.575	0

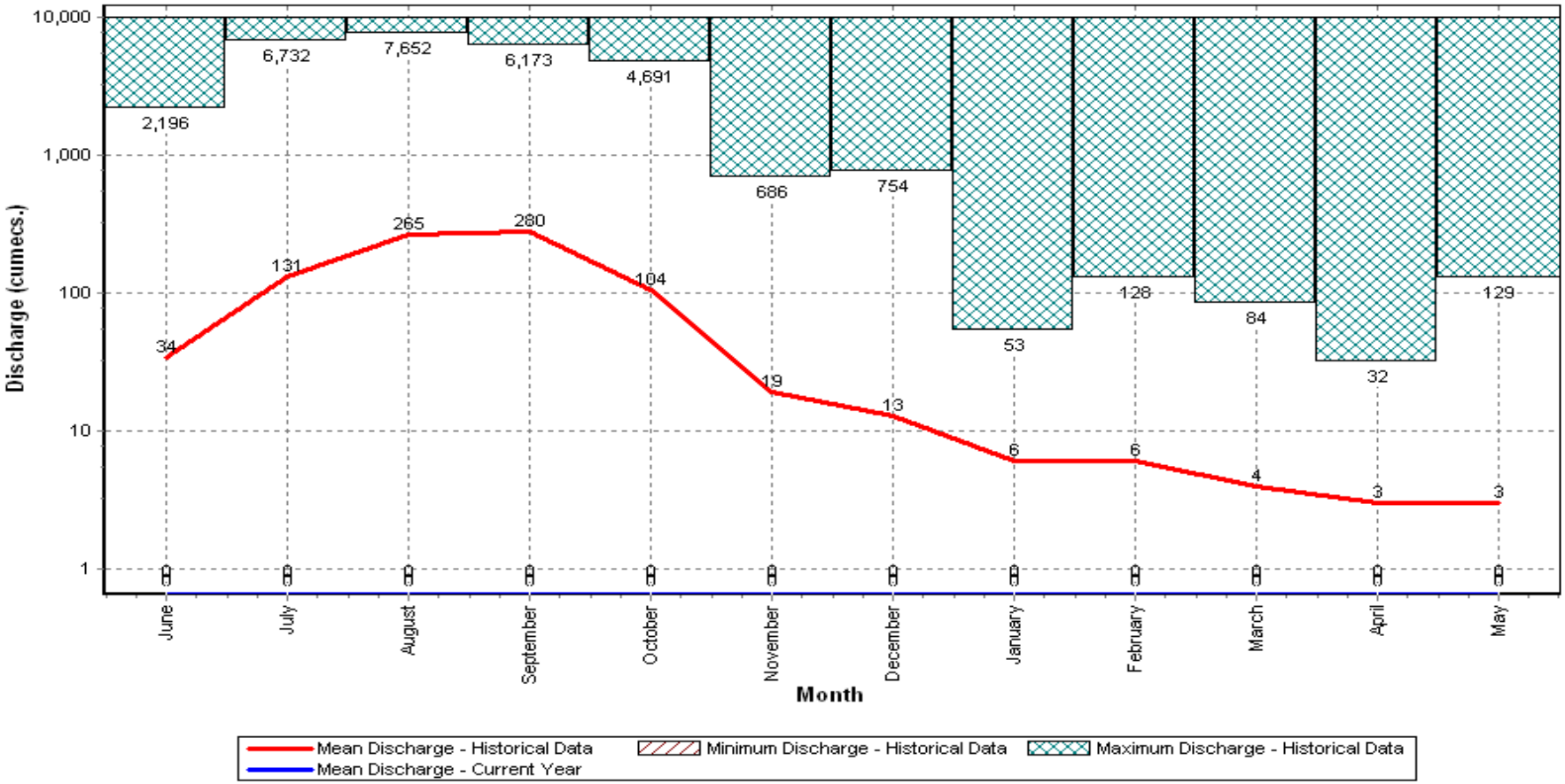
Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016

Station Name : Dhalegaon (AG000S9) **Data considered : 1965-2016** **Division : U Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : U Godavari SD, Aurangabad**



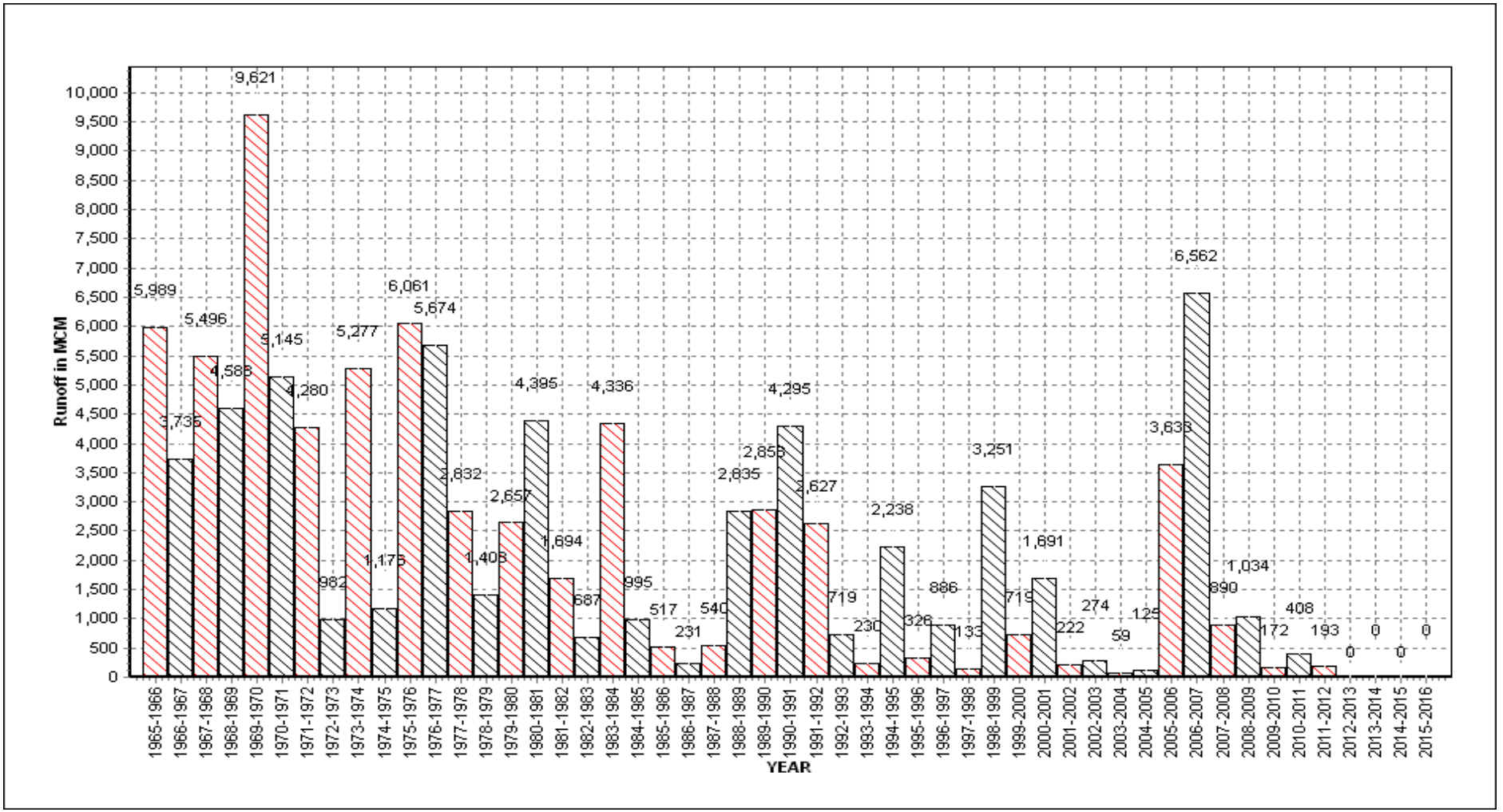
Annual Runoff Values for the period: 1965 - 2016

Station Name : Dhalegaon (AG000S9)

Local River : Godavari

Division : U Godavari Div., Hyderabad

Sub-Division : U Godavari SD, Aurangabad

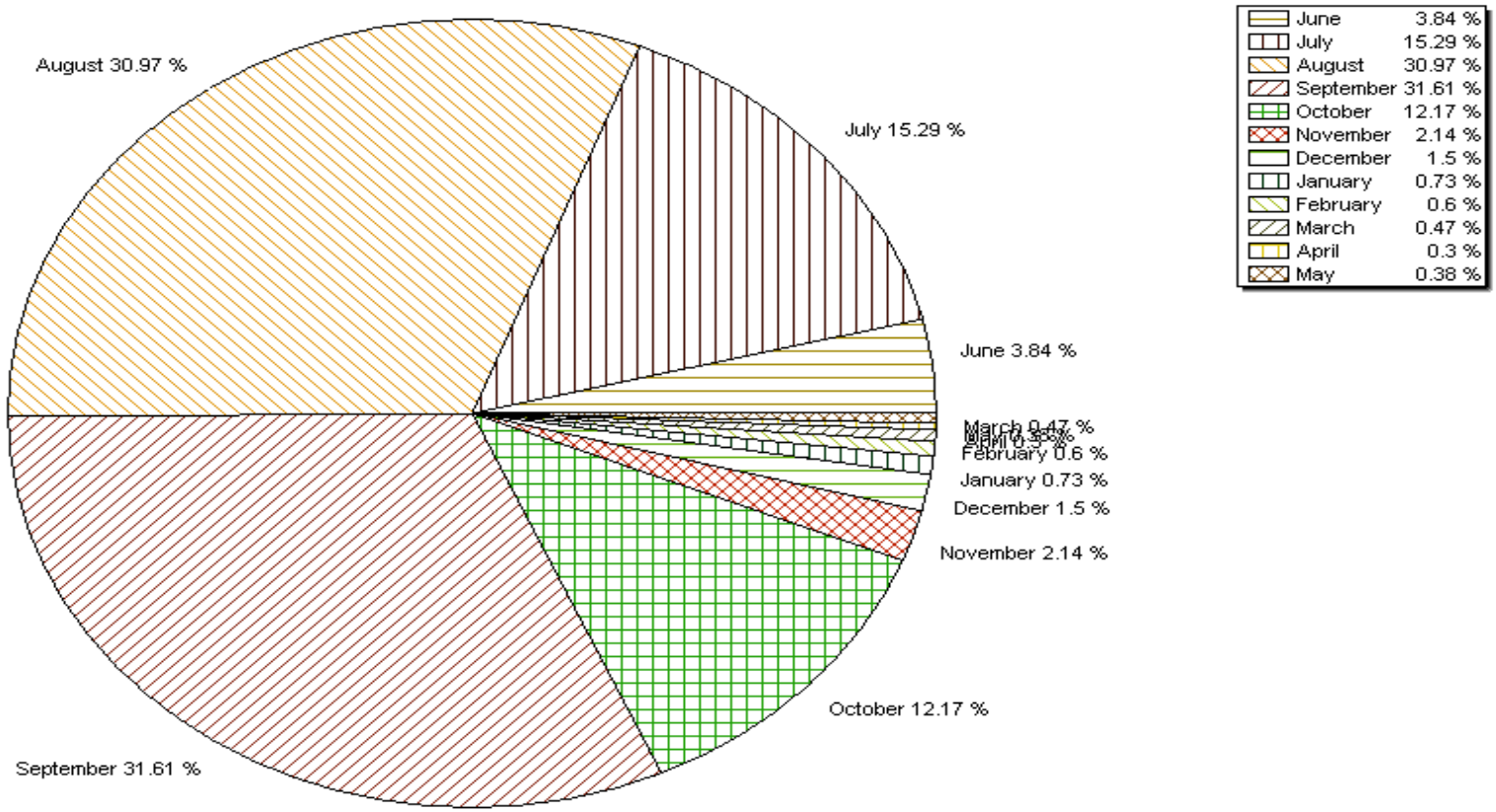


Note: Missing values have not been considered while arriving at Annual Runoff

Monthly Average Runoff based on period : 1965-2015

Station Name : Dhalegaon (AG000S9) **Division : U Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : U Godavari SD, Aurangabad**



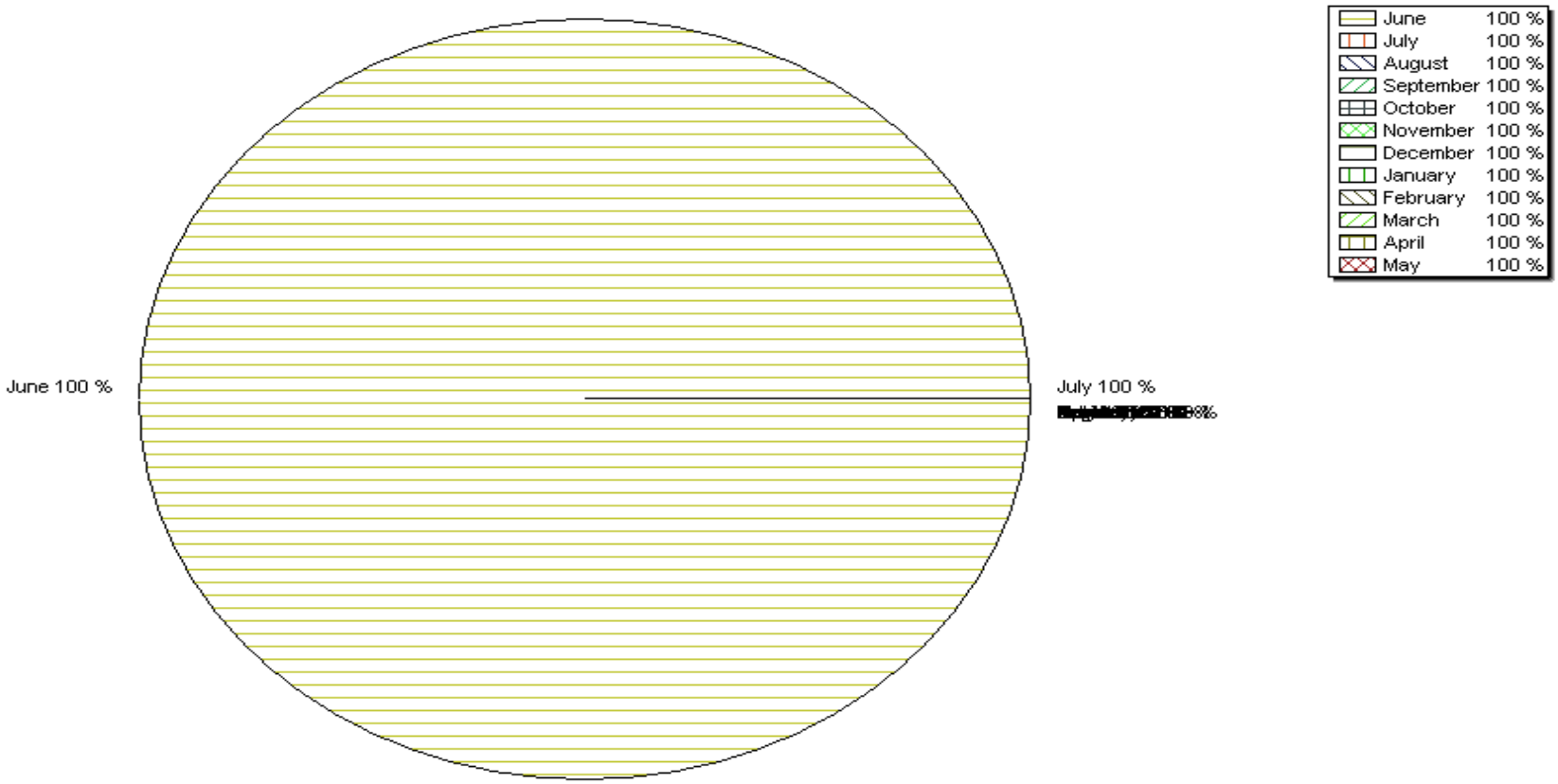
Monthly Runoff for the Year : 2015-2016

Station Name : Dhalegaon (AG000S9)

Division : U Godavari Div., Hyderabad

Local River : Godavari

Sub-Division : U Godavari SD, Aurangabad



HISTORY SHEET

Water Year : 2015-2016

Site	**: Pachegaon**		**Code**	**: AGU00D3**	
State	: Maharashtra		District	Ahmednagar	
Basin	: Godavari		Independent River	: Godavari	
Tributary	: Pravara		Sub Tributary	:	
Sub-Sub Tributary	: -		Local River	: Pravara	
Division	: U Godavari Div., Hyderabad		Sub-Division	: U Godavari SD, Aurangabad	
Drainage Area	: 5800 Sq. Km.		Bank	:	
Latitude	: 19°32'07"		Longitude	: 74°52'00"	
Zero of Gauge (m)	: 475.000 (m.s.l) 470.000 (m.s.l)		12/7/1978 6/1/2003	- 5/31/2003	
	Opening Date		Closing Date		
Gauge	: 12/7/1978		**HFL During 2015-16**	**: 472.530**	
			Corres. Discharge	**: 157.478 Cumes(Estimated)**	
Discharge	: 7/23/1983		**Date & Time of Occurance**	**: 11/3/2015 : 13:00 hrs.**	
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**
1983-1984	309.2	478.925	9/28/1983	0.000		3/25/1984
1984-1985	144.3	478.130	8/6/1984	0.000		1/25/1985
1985-1986	29.51	477.340	8/6/1985	0.000		1/25/1986
1986-1987	76.50	477.765	8/11/1986	0.000		1/25/1987
1987-1988	44.88	477.675	8/18/1987	0.000		1/26/1988
1988-1989	315.0	479.100	10/1/1988	0.000		1/25/1989
1989-1990	197.7	478.405	7/28/1989	0.000		1/25/1990
1990-1991	1234	481.450	10/12/1990	0.000	476.110	1/25/1991
1991-1992	606.4	479.950	7/28/1991	0.000	476.310	1/27/1992
1992-1993	68.50	477.320	9/10/1992	0.000		1/25/1993
1993-1994	144.5	478.100	9/29/1993	0.000	476.370	1/25/1994
1994-1995	571.7	479.910	8/29/1994	0.000	476.160	1/25/1995
1995-1996	34.84	477.120	7/23/1995	0.000	475.630	1/26/1996
1996-1997	344.6	478.600	10/22/1996	0.000	476.070	3/25/1997
1997-1998	1363	481.580	8/26/1997	0.000		4/25/1998
1998-1999	406.7	479.550	9/18/1998	0.000	475.950	3/6/1999
1999-2000	191.8	477.970	9/14/1999	0.000	476.480	1/29/2000
2000-2001	187.1	478.110	8/25/2000	0.000		1/25/2001
2001-2002	287.3	478.610	8/17/2001	0.000	475.900	1/25/2002
2002-2003	98.15	477.295	8/14/2002	0.000		1/25/2003
2003-2004	241.4	474.020	7/29/2003	0.000		1/26/2004

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	386.8	474.395	8/4/2004	0.000		1/25/2005
2005-2006	1198	476.715	8/4/2005	0.000		1/25/2006
2006-2007	3932	481.400	8/9/2006	0.000	475.500	1/25/2007
2007-2008	750.1	474.900	9/20/2007	0.000		1/23/2008
2008-2009	1960	477.050	9/21/2008	0.000		1/25/2009
2009-2010	139.5	472.230	8/24/2009	0.000		1/24/2010
2010-2011	248.8	473.535	9/1/2010	0.000	471.130	1/17/2011
2011-2012	407.6	473.900	8/30/2011	0.000	470.000	1/26/2012
2012-2013	228.9	473.420	11/30/2012	0.000		9/21/2012
2013-2014	292.0	473.050	8/4/2013	0.000	470.680	9/3/2013
2014-2015	424.9	473.660	12/15/2014	0.000	471.100	1/29/2015

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

Stage-Discharge Data for the period 2015 - 2016

Station Name : Pachegaon (AGU00D3) **Division : U Godavari Div., Hyderabad**

Local River : Pravara **Sub-Division : U Godavari SD, Aurangabad**

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	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	
2	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	
3	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	472.500	150.6	
4	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	472.300	72.45	
5	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	472.100	53.62	
6	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	471.780	23.86	
7	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	472.160	58.06	
8	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	472.130	61.83	*
9	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	472.080	45.96	
10	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	472.080	46.00	
11	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	472.110	51.36	*
12	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	472.120	54.64	
13	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	472.120	53.74	
14	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	472.120	50.18	
15	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	472.100	49.16	*
16	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	472.150	58.08	
17	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	472.180	68.78	
18	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	472.190	71.80	
19	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	472.280	73.76	
20	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	472.210	61.58	
21	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	472.190	68.40	
22	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	472.290	94.04	*
23	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	472.240	66.10	
24	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	472.300	69.44	
25	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	472.340	104.0	*
26	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	471.900	30.97	
27	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	471.170	0.621	
28	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	471.150	0.506	
29	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	471.010	0.000	
30	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.970	0.000	
31			470.000	0.000	470.000	0.000			470.000	0.000			
n-Daily Mean													
I Ten-Daily	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	471.713	51.23	
II Ten-Daily	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	472.158	59.31	
III Ten-Daily	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	471.756	43.41	
Monthly													
Min.	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	
Max.	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	472.500	150.6	
Mean	470.000	0	470.000	0	470.000	0	470.000	0	470.000	0	471.876	51.32	

Annual Runoff in MCM = 135 Annual Runoff in mm = 23

Peak Observed Discharge = 150.6 cumecs on 03/11/2015 Corres. Water Level :472.5 m

Lowest Observed Discharge = 0.000 cumecs on 01/06/2015 Corres. Water Level :470 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

Stage-Discharge Data for the period 2015 - 2016

Station Name : Pachegaon (AGU00D3) **Division : U Godavari Div., Hyderabad**

Local River : Pravara **Sub-Division : U Godavari SD, Aurangabad**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	470.970	0.000	470.790	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000
2	471.680	20.66	470.760	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000
3	471.100	0.000	470.700	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000
4	471.050	0.000	470.620	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000
5	471.020	0.000	470.540	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000
6	471.010	0.000	470.480	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000
7	471.010	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000
8	471.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000
9	471.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000
10	471.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000
11	471.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000
12	471.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000
13	471.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000
14	471.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000
15	471.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000
16	471.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000
17	471.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000
18	471.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000
19	471.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000
20	471.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000
21	471.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000
22	471.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000
23	471.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000
24	471.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000
25	471.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000
26	471.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000
27	471.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000
28	471.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000
29	470.940	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000
30	470.880	0.000	470.000	0.000			470.000	0.000	470.000	0.000	470.000	0.000
31	470.820	0.000	470.000	0.000			470.000	0.000			470.000	0.000
n-Daily Me												
I Ten-Daily	471.084	2.066	470.389	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000
I Ten-Daily	471.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000
II Ten-Dail	470.967	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000
Monthly												
Min.	470.820	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000
Max.	471.680	20.66	470.790	0.000	470.000	0.000	470.000	0.000	470.000	0.000	470.000	0.000
Mean	471.015	0.667	470.125	0	470.000	0	470.000	0	470.000	0	470.000	0

Peak Computed Discharge = 104.0 cumecs on 25/11/2015 **Corres. Water Level :472.34 m**

Lowest Computed Discharge = 49.16 cumecs on 15/11/2015 **Corres. Water Level :472.1 m**

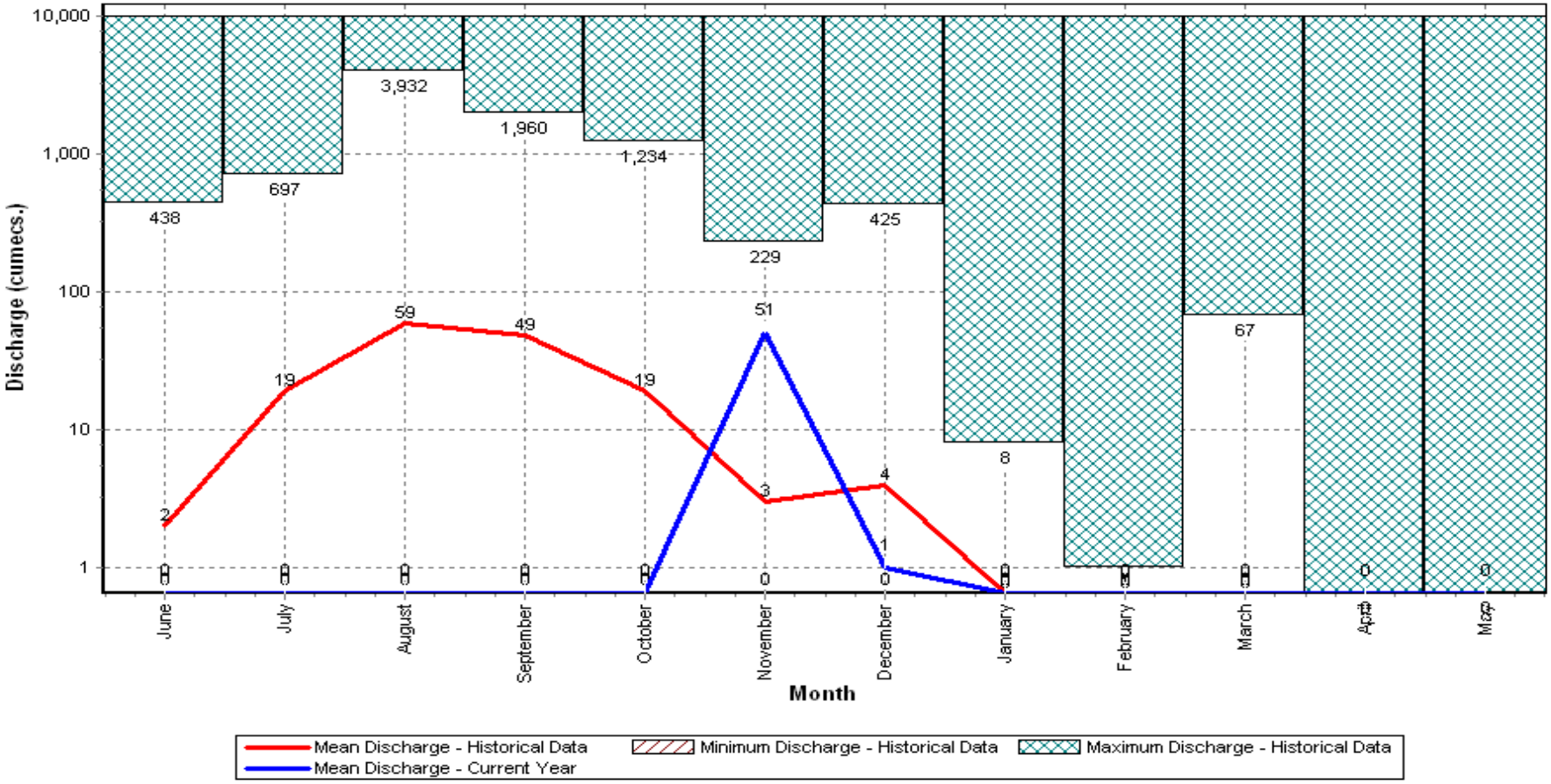
Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2015-2016

Station Name : Pachegaon (AGU00D3) | **Data considered : 1983-2016** | **Division : U Godavari Div., Hyderabad**

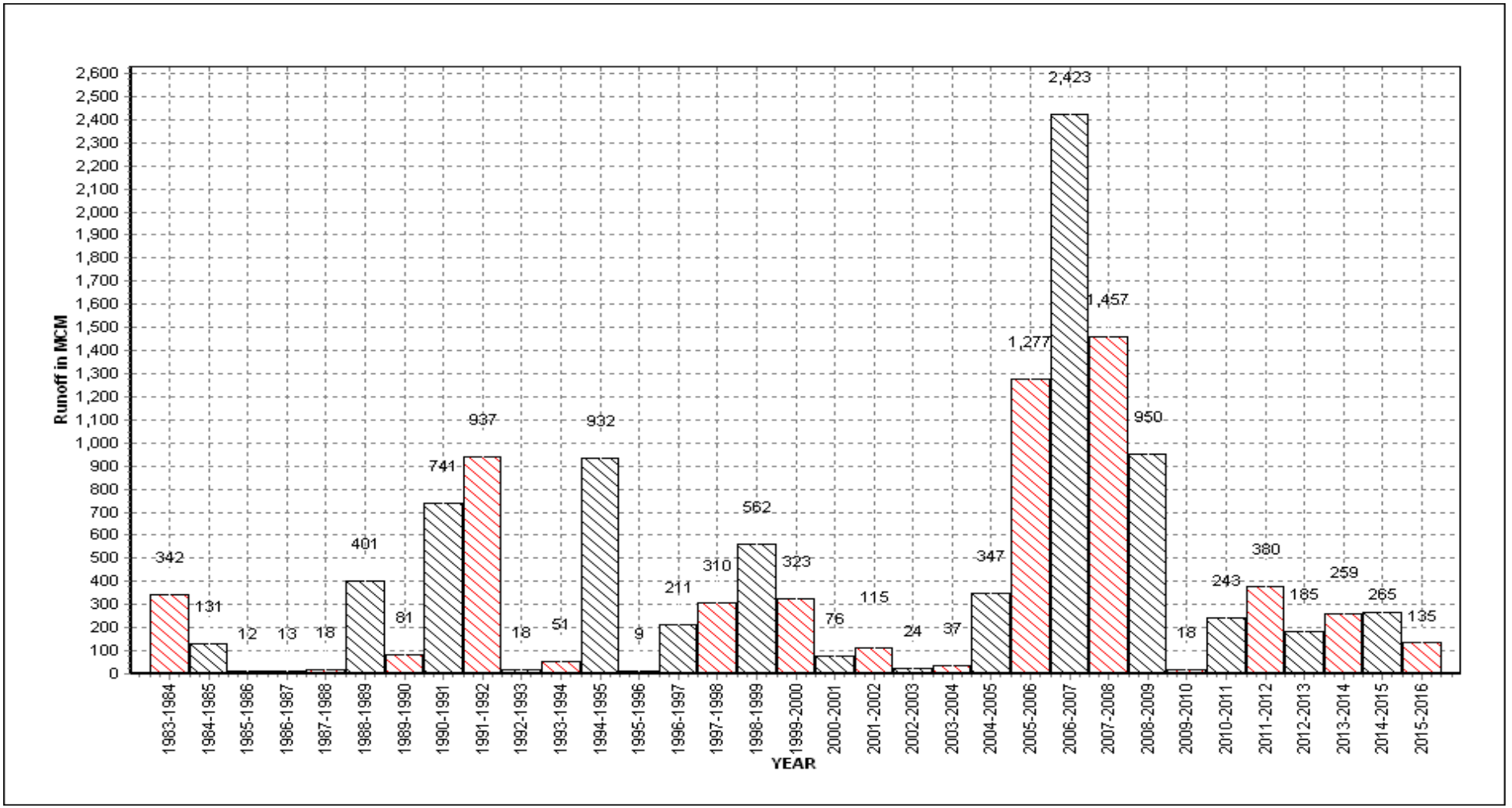
Local River : Pravara | **Sub-Division : U Godavari SD, Aurangabad**


10,000
1,000
100
10
1
Discharge (cumecs.)
438
697
3,932
1,960
1,234
229
425
8
67
0
0
2
19
59
49
19
3
4
1
0
0
0

Annual Runoff Values for the period: 1983 - 2016

Station Name : Pachegaon (AGU00D3) **Division : U Godavari Div., Hyderabad**

Local River : Pravara **Sub-Division : U Godavari SD, Aurangabad**

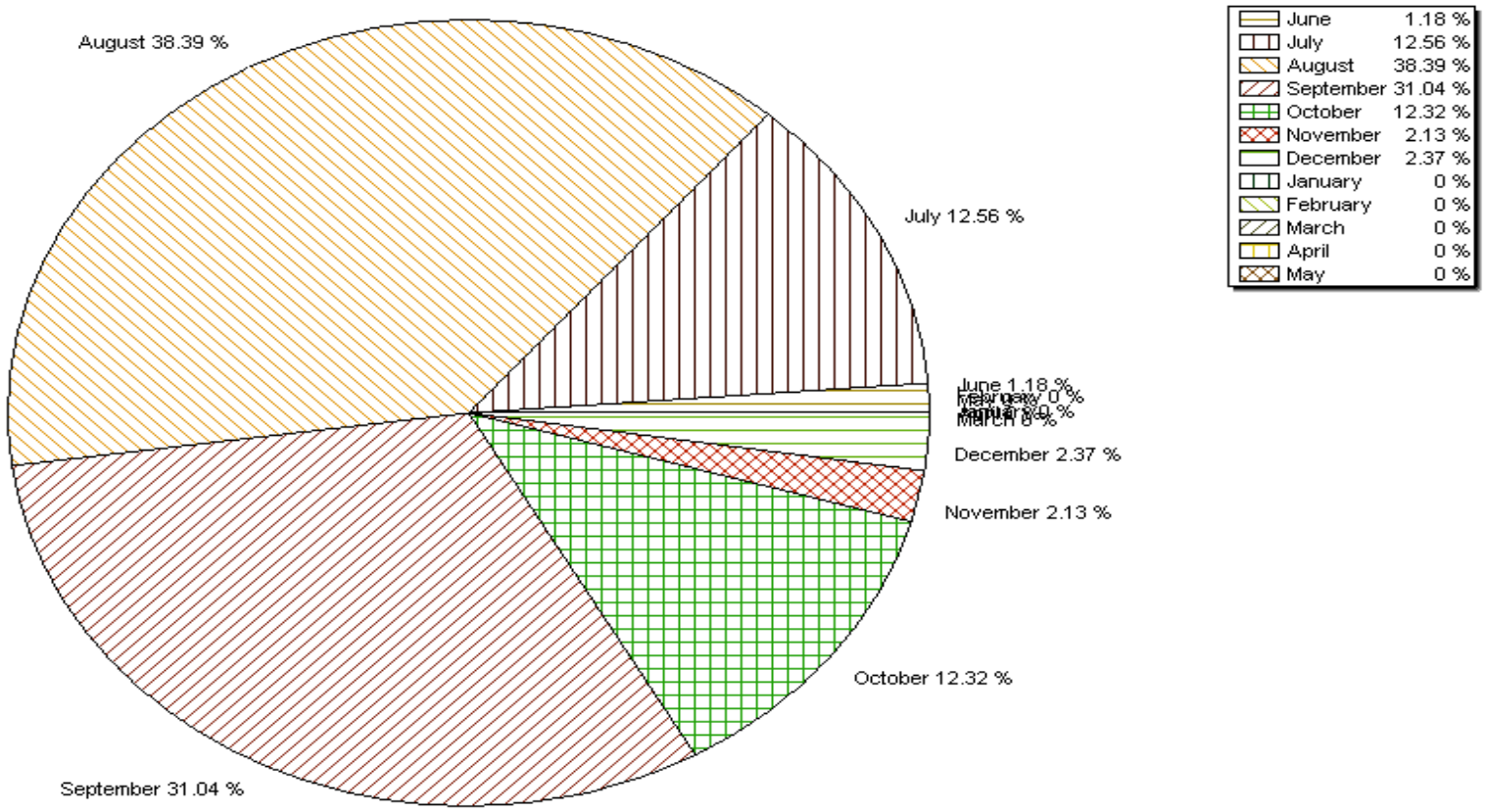


Note: Missing values have not been considered while arriving at Annual Runoff

Monthly Average Runoff based on period : 1983-2015

Station Name : Pachegaon (AGU00D3) **Division : U Godavari Div., Hyderabad**

Local River : Pravara **Sub-Division : U Godavari SD, Aurangabad**



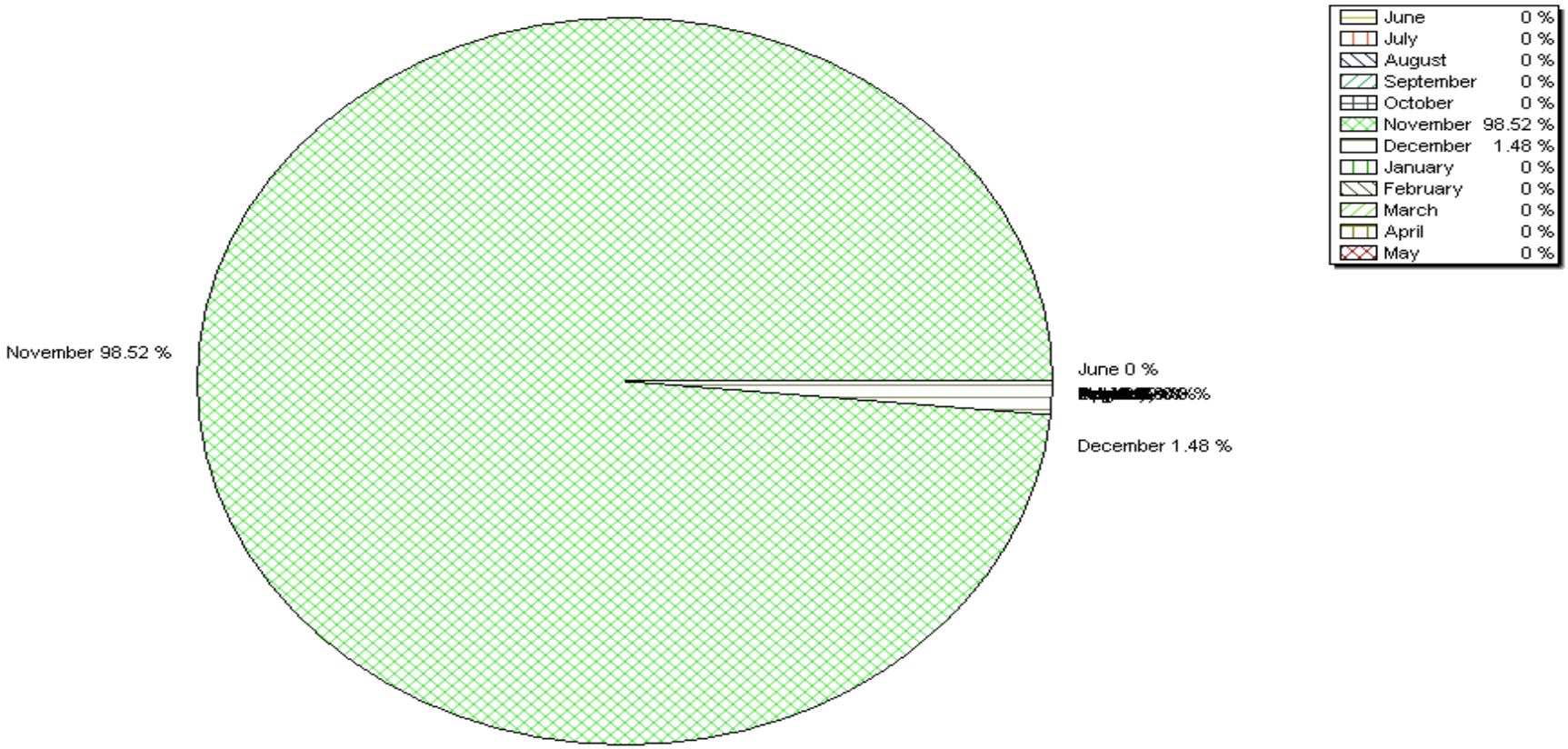
Monthly Runoff for the Year : 2015-2016

Station Name : Pachegaon (AGU00D3)

Local River : Pravara

Division : U Godavari Div., Hyderabad

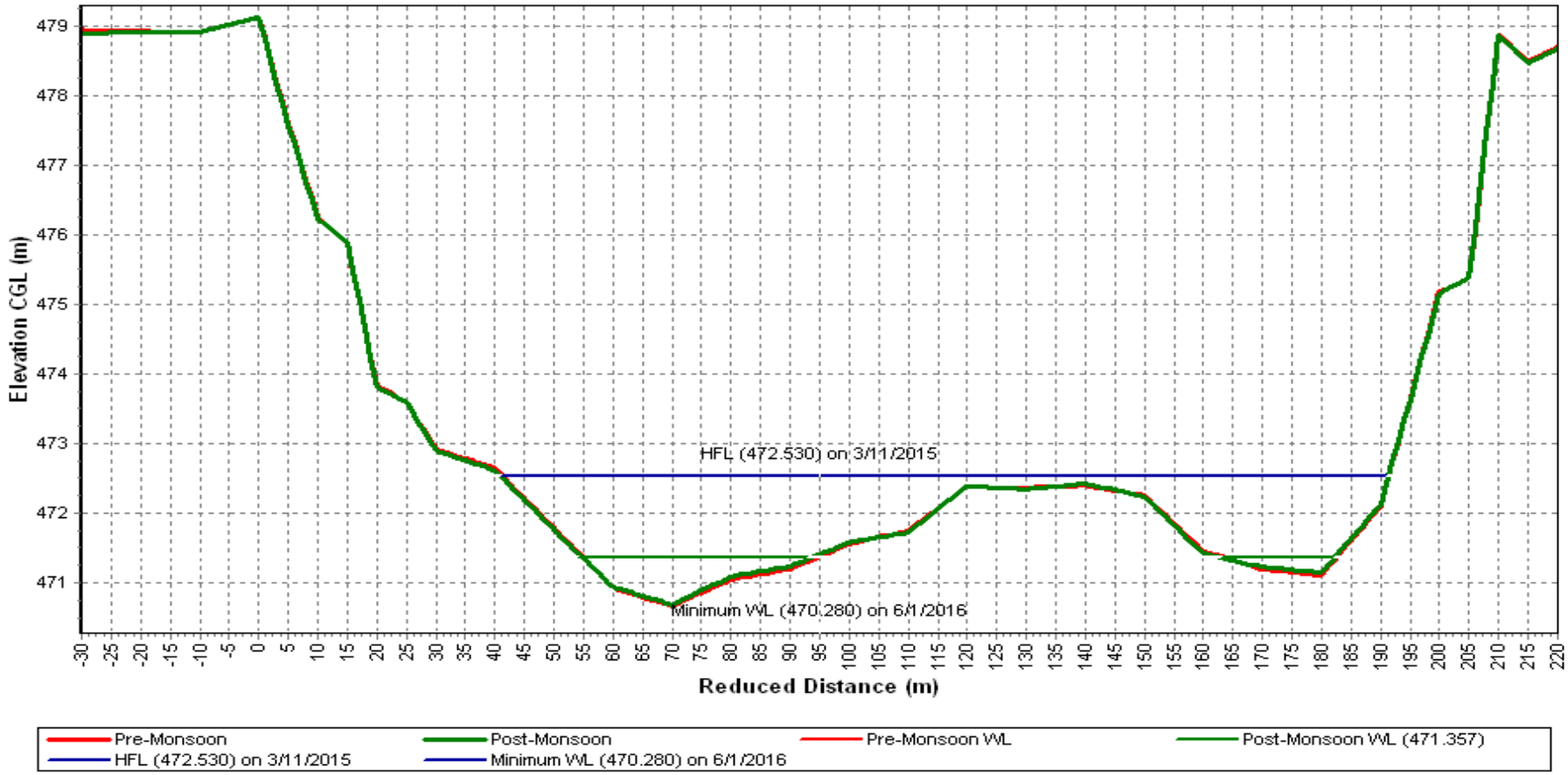
Sub-Division : U Godavari SD, Aurangabad



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

Station Name : Pachegaon (AGU00D3) **Division : U Godavari Div., Hyderabad**

Local River : Pravara **Sub-Division : U Godavari SD, Aurangabad**



HISTORY SHEET

Water Year : 2015-2016

Site	**:**	**Kopergaon**	**Code**	**:**	**KOPERGAON**
State	:	Maharashtra	District		Ahmednagar
Basin	:	Godavari	Independent River	:	Godavari
Tributary	:	-	Sub Tributary	:	-
Sub-Sub Tributary	:	-	Local River	:	Godavari
Division	:	Upper Godavari Div., Hyderabad	Sub-Division	:	Upper Godavari SD, Aurangabad
Drainage Area	:	6840 Sq. Km.	Bank	:	Left
Latitude	:	19°52'00"	Longitude	:	74°28'28"
Zero of Gauge (m)	:	485.500 (m.s.l)	1/1/1977		
		Opening Date	Closing Date		
Gauge	:	5/25/1977	**HFL During 2015-16**	**:**	**490.000**
			Corres. Discharge	**:**	**813.325 Cumes(Observed)**
Discharge	:	7/31/2014	**Date & Time of**	**:**	**9/19/2015**
			Occurance	**:**	**08:00 hrs.**
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**
2014-2015	991.1	490.400	7/31/2014	0.000	485.500	1/21/2015

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

Stage-Discharge Data for the period 2015 - 2016

Station Name : Kopergaon **Division : Upper Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Upper Godavari SD, Aurangabad**

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	485.500	0.000	485.500	0.000	486.600	19.84	485.500	0.000	487.350	0.000	487.200	0.000
2	485.500	0.000	485.500	0.000	486.600	19.84 *	485.500	0.000	487.350	0.000	487.100	0.000
3	485.500	0.000	485.500	0.000	486.700	22.28	485.500	0.000	487.300	0.000	488.550	447.3
4	485.500	0.000	485.500	0.000	486.600	20.42	485.500	0.000	487.300	0.000	488.550	440.7
5	485.500	0.000	485.500	0.000	486.600	19.89	485.500	0.000	487.600	0.000	488.800	490.7
6	485.500	0.000	485.500	0.000	486.580	17.86	485.500	0.000	487.850	0.000	489.000	550.2
7	485.500	0.000	485.500	0.000	486.500	11.81	485.500	0.000	487.850	0.000	489.000	0.000
8	485.500	0.000	485.500	0.000	486.500	11.83	485.500	0.000	487.850	0.000	488.600	0.000
9	485.500	0.000	485.500	0.000	486.500	0.000	485.500	0.000	487.850	0.000	488.400	0.000
10	485.500	0.000	485.500	0.000	486.400	0.000	485.500	0.000	487.850	0.000	488.150	0.000
11	485.500	0.000	485.500	0.000	486.400	0.000	485.500	0.000	487.800	0.000	488.150	0.000
12	485.500	0.000	485.500	0.000	486.400	0.000	485.500	0.000	487.800	0.000	488.150	0.000
13	485.500	0.000	485.500	0.000	486.350	0.000	485.500	0.000	487.900	0.000	488.150	0.000
14	485.500	0.000	485.500	0.000	486.300	0.000	485.500	0.000	487.900	0.000	488.150	0.000
15	485.500	0.000	485.500	0.000	486.300	0.000	485.500	0.000	487.900	0.000	488.100	0.000
16	485.500	0.000	485.500	0.000	486.300	0.000	485.500	0.000	487.900	0.000	488.100	0.000
17	485.500	0.000	485.500	0.000	485.500	0.000	485.500	0.000	487.850	0.000	488.050	0.000
18	485.500	0.000	485.500	0.000	485.500	0.000	485.500	0.000	487.850	0.000	488.050	0.000
19	485.500	0.000	485.500	0.000	485.500	0.000	490.000	813.3	487.800	0.000	488.000	0.000
20	485.500	0.000	485.500	0.000	485.500	0.000	487.400	171.1 *	487.800	0.000	488.000	0.000
21	485.500	0.000	485.500	0.000	485.500	0.000	487.100	73.14	487.800	0.000	488.000	0.000
22	485.500	0.000	485.500	0.000	485.500	0.000	487.425	121.8	487.750	0.000	488.000	0.000
23	485.500	0.000	485.500	0.000	485.500	0.000	487.450	0.000 *	487.700	0.000	488.000	0.000
24	485.500	0.000	486.875	30.79	485.500	0.000	487.400	0.000 *	487.600	0.000	487.950	0.000
25	485.500	0.000	486.900	35.46	485.500	0.000	487.400	0.000 *	487.600	0.000	487.900	0.000
26	485.500	0.000	488.450	405.8 *	485.500	0.000	487.400	0.000 *	487.550	0.000	487.820	0.000
27	485.500	0.000	487.500	140.0	485.500	0.000	487.400	0.000 *	487.450	0.000	487.820	0.000
28	485.500	0.000	488.500	438.5	485.500	0.000	487.400	0.000 *	487.450	0.000	487.800	0.000
29	485.500	0.000	489.215	599.3	485.500	0.000	487.400	0.000 *	487.400	0.000	487.800	0.000
30	485.500	0.000	489.600	685.6	485.500	0.000	487.350	0.000 *	487.350	0.000	487.800	0.000
31			488.300	389.1	485.500	0.000			487.300	0.000		
en-Daily Mean												
I Ten-Daily	485.500	0.000	485.500	0.000	486.558	14.38	485.500	0.000	487.615	0.000	488.335	192.9
II Ten-Daily	485.500	0.000	485.500	0.000	486.005	0.000	486.140	98.45	487.850	0.000	488.090	0.000
III Ten-Daily	485.500	0.000	487.440	247.7	485.500	0.000	487.372	19.49	487.541	0.000	487.889	0.000
Monthly												
Min.	485.500	0.000	485.500	0.000	485.500	0.000	485.500	0.000	487.300	0.000	487.100	0.000
Max.	485.500	0.000	489.600	685.6	486.700	22.28	490.000	813.3	487.900	0.000	489.000	550.2
Mean	485.500	0	486.188	87.89	486.004	4.638	486.337	39.31	487.665	0	488.105	64.3

Annual Runoff in MCM = 516 Annual Runoff in mm = 75

Peak Observed Discharge = 813.3 cumecs on 19/09/2015 Corres. Water Level :490 m

Lowest Observed Discharge = 0.000 cumecs on 01/06/2015 Corres. Water Level :485.5 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

Stage-Discharge Data for the period 2015 - 2016

Station Name : Kopergaon **Division : Upper Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Upper Godavari SD, Aurangabad**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	487.700	0.000	486.600	0.000	485.500	0.000	485.500	0.000	485.500	0.000 *	485.500	0.000
2	487.650	0.000	486.550	0.000	485.500	0.000	485.500	0.000	485.500	0.000 *	485.500	0.000
3	487.600	0.000	486.550	0.000	485.500	0.000	485.500	0.000	485.500	0.000 *	485.500	0.000
4	487.550	0.000	486.550	0.000	485.500	0.000	485.500	0.000	485.500	0.000 *	485.500	0.000
5	487.500	0.000	486.500	0.000	485.500	0.000	485.500	0.000	485.500	0.000 *	485.500	0.000
6	487.450	0.000	486.450	0.000	485.500	0.000	485.500	0.000	485.500	0.000 *	485.500	0.000
7	487.400	0.000	486.450	0.000	485.500	0.000	485.500	0.000	485.500	0.000 *	485.500	0.000
8	487.350	0.000	485.500	0.000	485.500	0.000	485.500	0.000	485.500	0.000 *	485.500	0.000
9	487.350	0.000	485.500	0.000	485.500	0.000	485.500	0.000	485.500	0.000 *	485.500	0.000
10	487.350	0.000	485.500	0.000	485.500	0.000	485.500	0.000	485.500	0.000 *	485.500	0.000
11	487.300	0.000	485.500	0.000	485.500	0.000	485.500	0.000	485.500	0.000 *	485.500	0.000
12	487.300	0.000	485.500	0.000	485.500	0.000	485.500	0.000	485.500	0.000 *	485.500	0.000
13	487.300	0.000	485.500	0.000	485.500	0.000	485.500	0.000	485.500	0.000 *	485.500	0.000
14	487.300	0.000	485.500	0.000	485.500	0.000	485.500	0.000	485.500	0.000 *	485.500	0.000
15	487.100	0.000	485.500	0.000	485.500	0.000	485.500	0.000	485.500	0.000 *	485.500	0.000
16	487.050	0.000	485.500	0.000	485.500	0.000	485.500	0.000	485.500	0.000 *	485.500	0.000
17	486.900	0.000	485.500	0.000	485.500	0.000	485.500	0.000	485.500	0.000 *	485.500	0.000
18	486.850	0.000	485.500	0.000	485.500	0.000	485.500	0.000	485.500	0.000 *	485.500	0.000
19	486.850	0.000	485.500	0.000	485.500	0.000	485.500	0.000	485.500	0.000 *	485.500	0.000
20	486.800	0.000	485.500	0.000	485.500	0.000	485.500	0.000	485.500	0.000 *	485.500	0.000
21	486.800	0.000	485.500	0.000	485.500	0.000	485.500	0.000	485.500	0.000 *	485.500	0.000
22	486.800	0.000	485.500	0.000	485.500	0.000	485.500	0.000	485.500	0.000 *	485.500	0.000
23	486.800	0.000	485.500	0.000	485.500	0.000	485.500	0.000	485.500	0.000 *	485.500	0.000
24	486.800	0.000	485.500	0.000	485.500	0.000	485.500	0.000	485.500	0.000 *	485.500	0.000
25	486.750	0.000	485.500	0.000	485.500	0.000	485.500	0.000	485.500	0.000 *	485.500	0.000
26	486.750	0.000	485.500	0.000	485.500	0.000	485.500	0.000	485.500	0.000 *	485.500	0.000
27	486.750	0.000	485.500	0.000	485.500	0.000	485.500	0.000	485.500	0.000 *	485.500	0.000
28	486.750	0.000	485.500	0.000	485.500	0.000	485.500	0.000	485.500	0.000 *	485.500	0.000
29	486.700	0.000	485.500	0.000	485.500	0.000	485.500	0.000	485.500	0.000 *	485.500	0.000
30	486.700	0.000	485.500	0.000			485.500	0.000	485.500	0.000 *	485.500	0.000
31	486.650	0.000	485.500	0.000			485.500	0.000			485.500	0.000
en-Daily Mea												
I Ten-Daily	487.490	0.000	486.215	0.000	485.500	0.000	485.500	0.000	485.500	0.000	485.500	0.000
II Ten-Daily	487.075	0.000	485.500	0.000	485.500	0.000	485.500	0.000	485.500	0.000	485.500	0.000
III Ten-Daily	486.750	0.000	485.500	0.000	485.500	0.000	485.500	0.000	485.500	0.000	485.500	0.000
Monthly												
Min.	486.650	0.000	485.500	0.000	485.500	0.000	485.500	0.000	485.500	0.000	485.500	0.000
Max.	487.700	0.000	486.600	0.000	485.500	0.000	485.500	0.000	485.500	0.000	485.500	0.000
Mean	487.094	0	485.731	0	485.500	0	485.500	0	485.500	0	485.500	0

Peak Computed Discharge = 405.8 cumecs on 26/07/2015 **Corres. Water Level :488.45 m**

Lowest Computed Discharge = 0.000 cumecs on 23/09/2015 **Corres. Water Level :487.45 m**

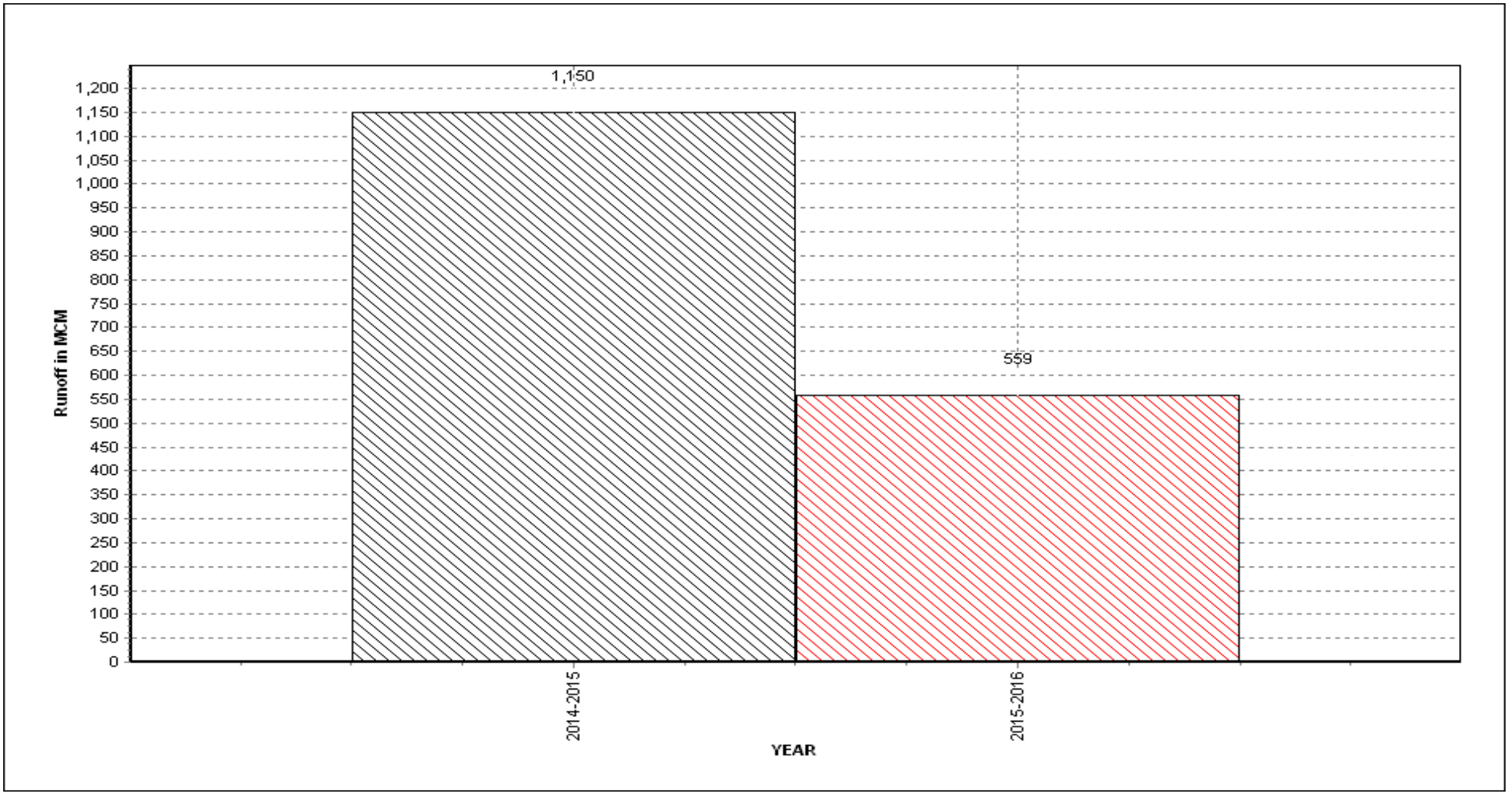
Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

Note:Missing values ignored while arriving at Annual Runoff

Annual Runoff Values for the period: 2014 - 2016

Station Name : Kopergaon **Division : Upper Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Upper Godavari SD, Aurangabad**

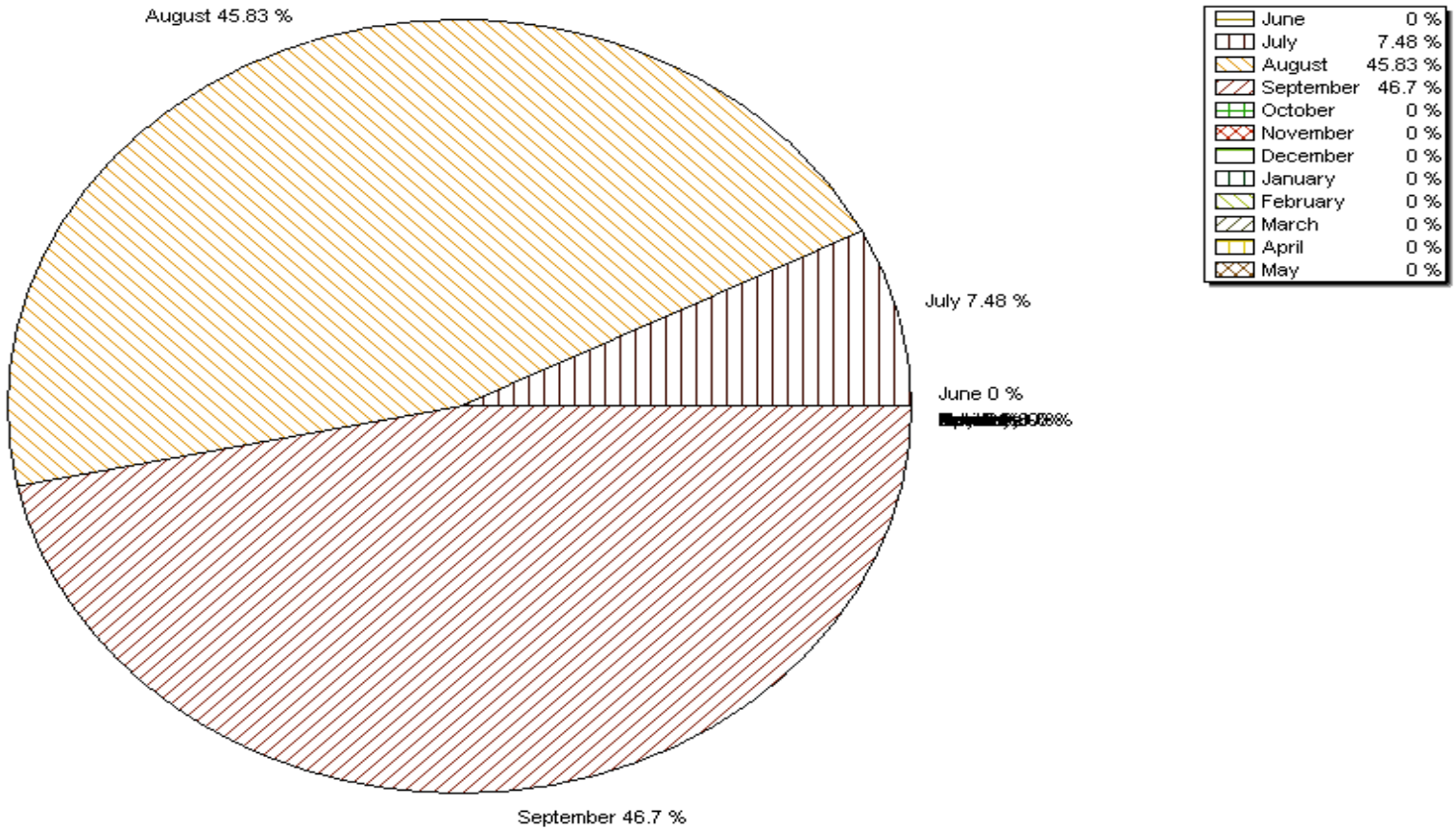


Note: Missing values have not been considered while arriving at Annual Runoff

Monthly Average Runoff based on period : 2014-2015

Station Name : Kopergaon **Division : Upper Godavari Div., Hyderabad**

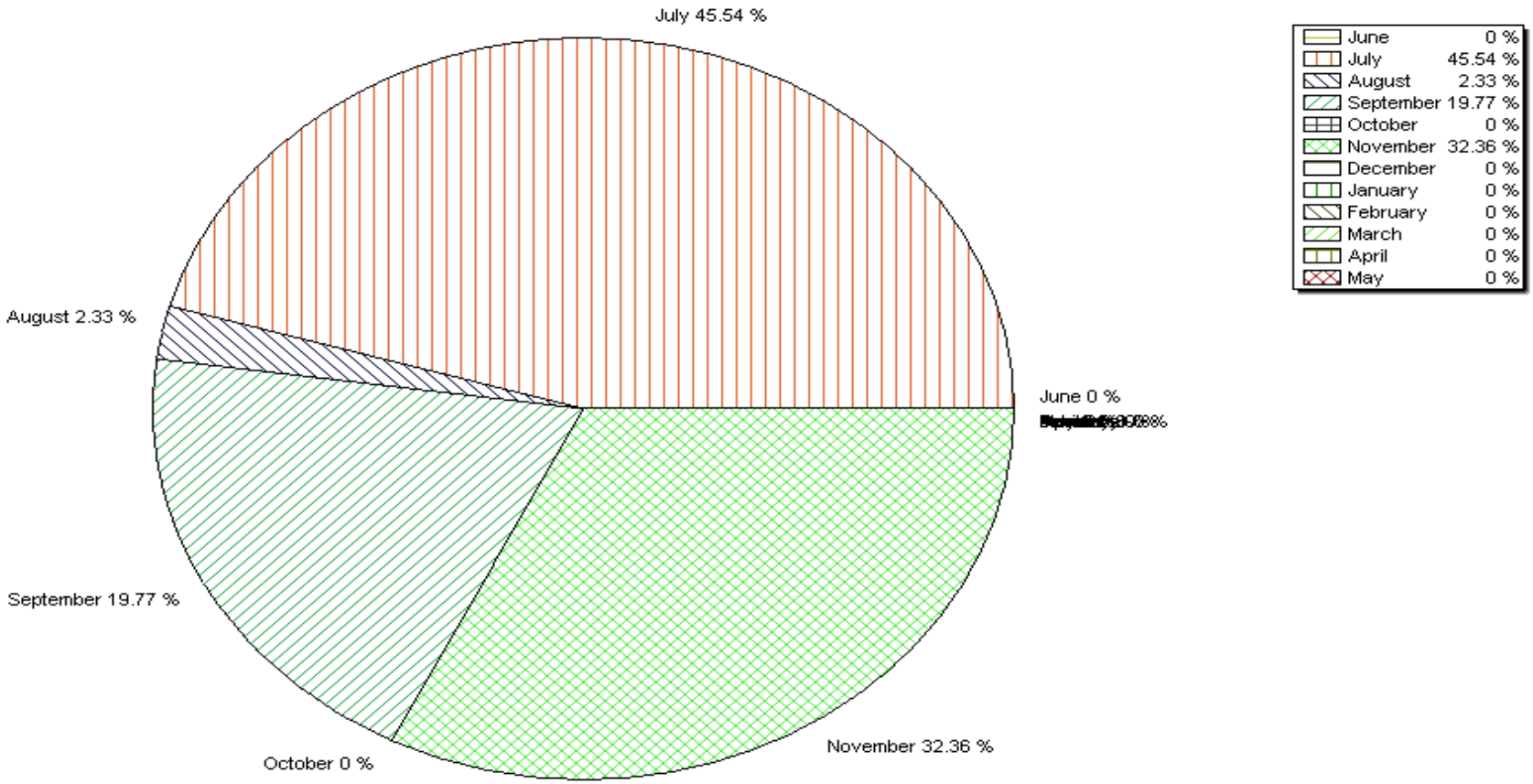
Local River : Godavari **Sub-Division : Upper Godavari SD, Aurangabad**



Monthly Runoff for the Year : 2015-2016

Station Name : Kopergaon **Division : Upper Godavari Div., Hyderabad**

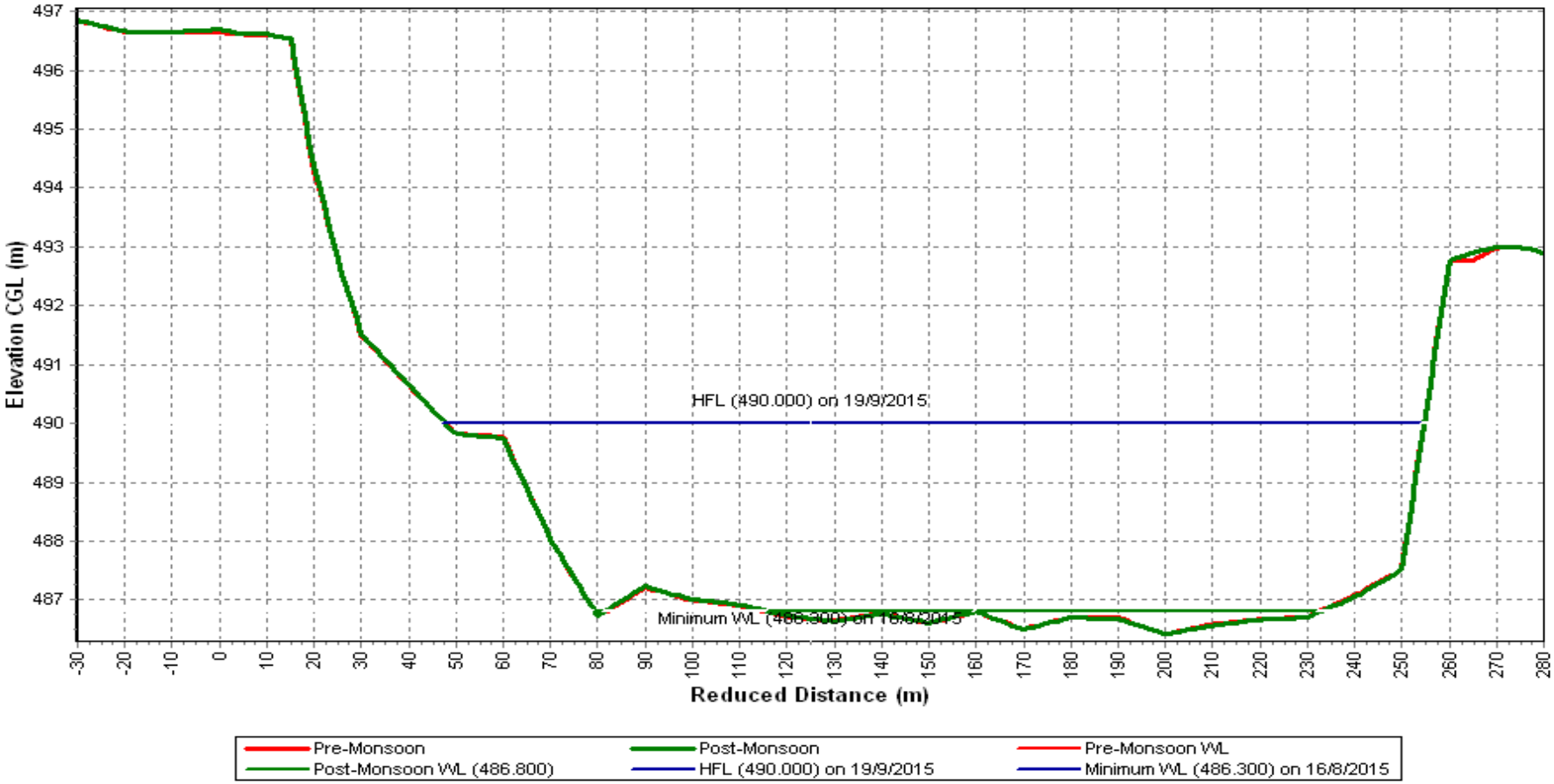
Local River : Godavari **Sub-Division : Upper Godavari SD, Aurangabad**



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

Station Name : Kopergaon **Division : Upper Godavari Div., Hyderabad**

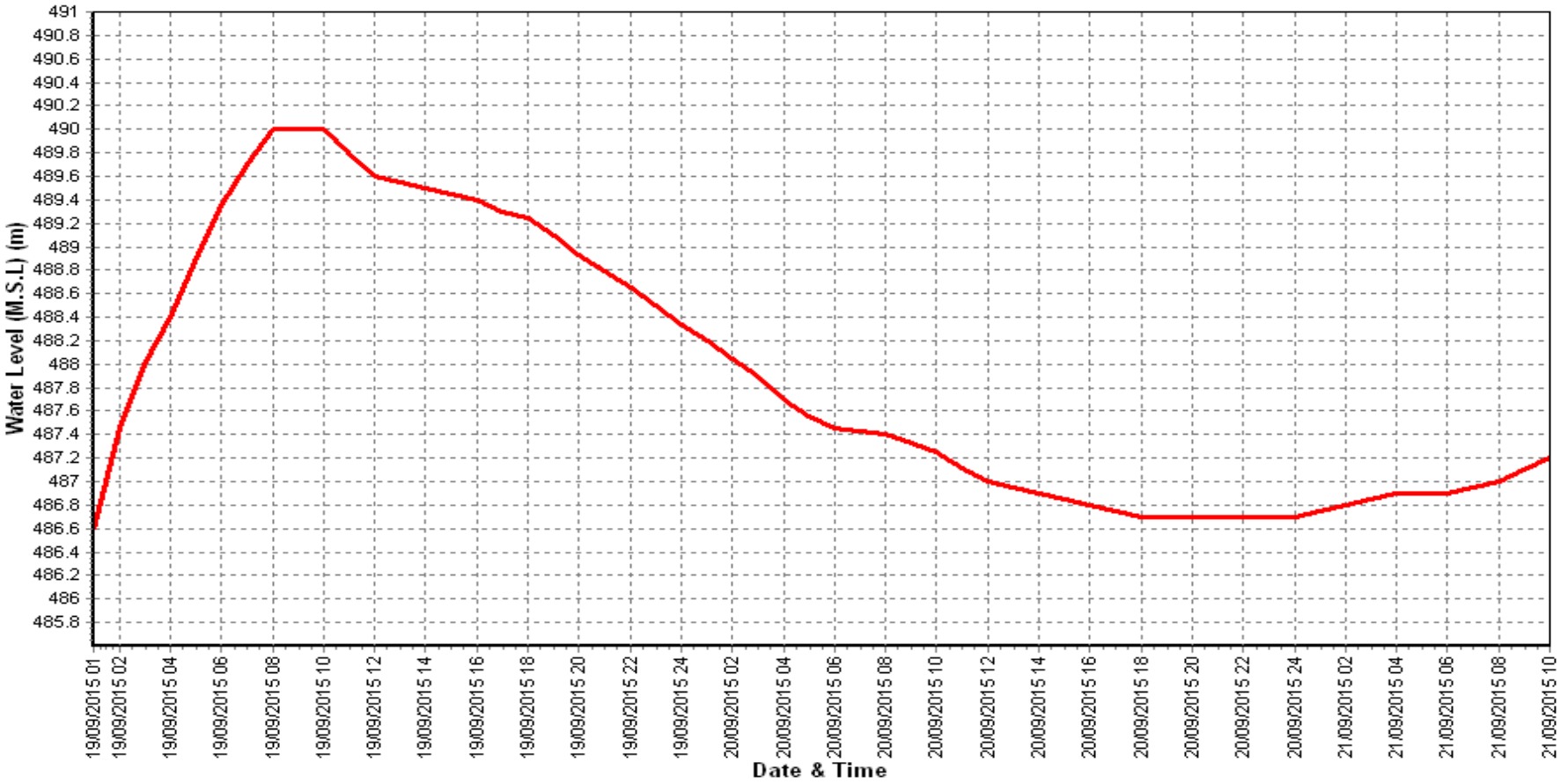
Local River : Godavari **Sub-Division : Upper Godavari SD, Aurangabad**



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

Station Name : Kopergaon **Division : Upper Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Upper Godavari SD, Aurangabad**

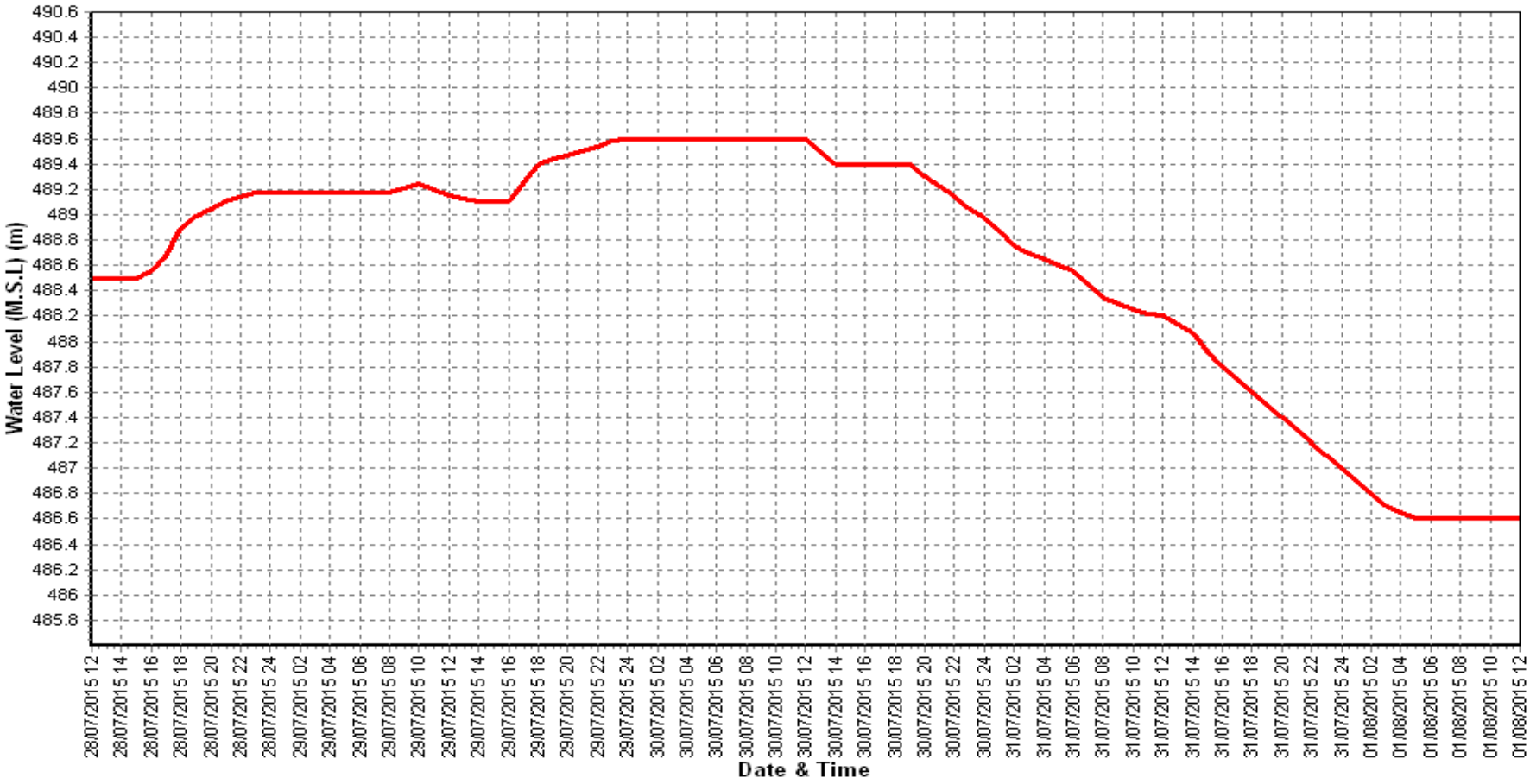


Time Span: 96 Hrs

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

Station Name : Kopergaon **Division : Upper Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Upper Godavari SD, Aurangabad**

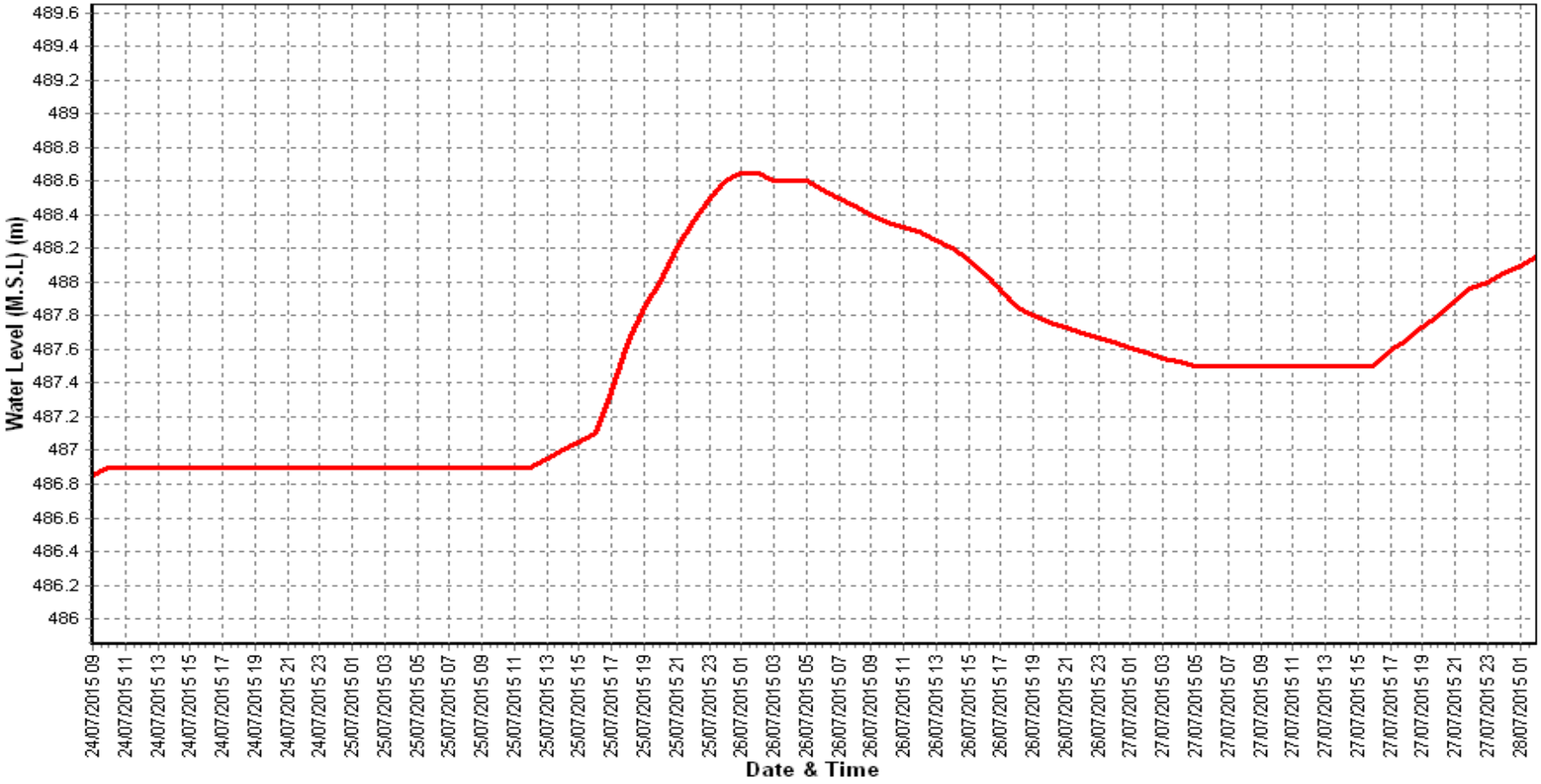


Time Span: 96 Hrs

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

Station Name : Kopergaon **Division : Upper Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Upper Godavari SD, Aurangabad**



Time Span: 96 Hrs