

# Hydrology Project

## 5. Hydrology Project-Phase-I (1995-2003)

Hydrology Project Phase-I was successfully completed in the year 2003. During this period, 65 nos. of manually operated Hydro-meteorological stations have been established under Surface Water, Odisha. The Hydro-met data is being collected on daily basis and stored in Surface Water Data Entry System (SWDES) database. The stored data is useful for Hydrological Information System (HIS) and

Decision Support System (DSS) etc. The data is disseminated to bonafide users.

Out of the 65 Nos. of Stations:-

- i) Gauge (G) - 12 Nos.
- ii) Gauge Discharge (GD) - 44 Nos
- iii) Full Climatic Stations (FCS) - 09 Nos

All 65 stations are having Standard Rain Gauge (SRG)

**Table - 4.4.8**  
**RTDAS Station proposed under National Hydrology Project in Odisha**

Sl. No.	Basin	ARS	AWS	AWL	Total
1	Subarnarekha	3	1	1	5
2	Budhabalanga	4	3	2	9
3	Baitarani	5	3	1	9
4	Brahmani	7	2	4	13
5	Mahanadi	21	12	17	50
6	Rushikulya	5	3	2	10
7	Vansadhara	5	-	1	6
8	Nagavali	2	2	1	5
9	Indravati	1	-	-	1
10	Kolab	7	1	1	9
11	Bahuda	-	-	1	1
<b>Total</b>		<b>60</b>	<b>27</b>	<b>31</b>	<b>118</b>

### National Hydrology Project (NHP)

#### Odisha Surface Water

- National Hydrology Project (NHP) has been envisaged by Ministry of Water Resources (MoWR), RD & GR, Govt. of India as a follow-up and extension of Hydrology Project Phase-I and Phase-II as Grant-in-Aid Central Sector Scheme with duration of 8 years from FY-2015-16 to 2023-24. NHP has been implemented in 49 Implementing Agencies. Out of which Odisha Surface Water is one of the IAs.
- Project Monitoring Unit (PMU) for Odisha Surface Water has been re-constituted by the Engineer-in-Chief, P&D and Project Coordinator, NHP, Odisha vide EIC,WR order

No. 11379 Dtd 10.04.2018 for smooth implementation of various activities of NHP.

- Duration of the scheme: 08 years

#### Project Period

Stage-I: (FY 2016-17 to FY 2019-20)- 4 years

Stage-II: (FY 2020-21 to FY 2023-24)- 4 years

Share in Crores

Sl No	Implementing Agency	Tentative Allocation	World Bank	Govt. of India
1	Odisha (SW)	60	30	30

Proposal for Odisha (SW) finalized- Rs. 60.00 Cr (Approved by central cabinet vide ltr. No. 92021/1/2016-NHP/1118-1258 dtd. 23.06.2016)

**Work Progress:**

- i) Finalisation of location of new hydro-met station 118 Nos. by MoWR, RD&GR, under NHP.
- a) ARS-60 b) AWS-27 c) AWL-31.
- ii) Annual Work Plan (AWP) for the FY 2018-19 amounting to Rs. 9.766 Crores-approved by MoWR, RD & GR, GoI, New Delhi.
- iii) Procurement Plan (PP) for the FY 2018-19 approved online by MoWR, RD & GR.

**Hydrology Project-Phase-II (2006-2014)**

- i. In view of getting the real time data, we have installed 107 nos. of Real time data Acquisition System (RTDAS) stations (ARS-64, AWS-23 & AWL-20) covering all the River Basins of Odisha under Hydrology Project Phase-II, which was also successfully completed in the year 2014. The real time data from the RTDAS stations is being stored in the server at the State Data Processing Centre, Bhubaneswar. The RTDAS data is useful for Real time flood forecasting, Drought study and Decision

Support System (DSS) etc.

- ii. Hydrological and Meterological Data Query System is the software by which the user can check the information about all stations of the rainfall, all weather and water level. To check the information the user needs to login the Hydrological and Meterological Data Query System website.
- iii. The Real Time Data Acquisition and Transmission System in Odisha helps Water Resouces Department to know the exact scenario at each station in Odisha. It is for all the users to view real time Rainfall, Weather and Water Level from all stations located in Odisha at any time.
- iv. Two nos. of Digital LED display boards have been setup, one at HP Administrative Building and one at Sechasadan, Bhubaneswar for displaying the real time Hydro-met data of selected stations.

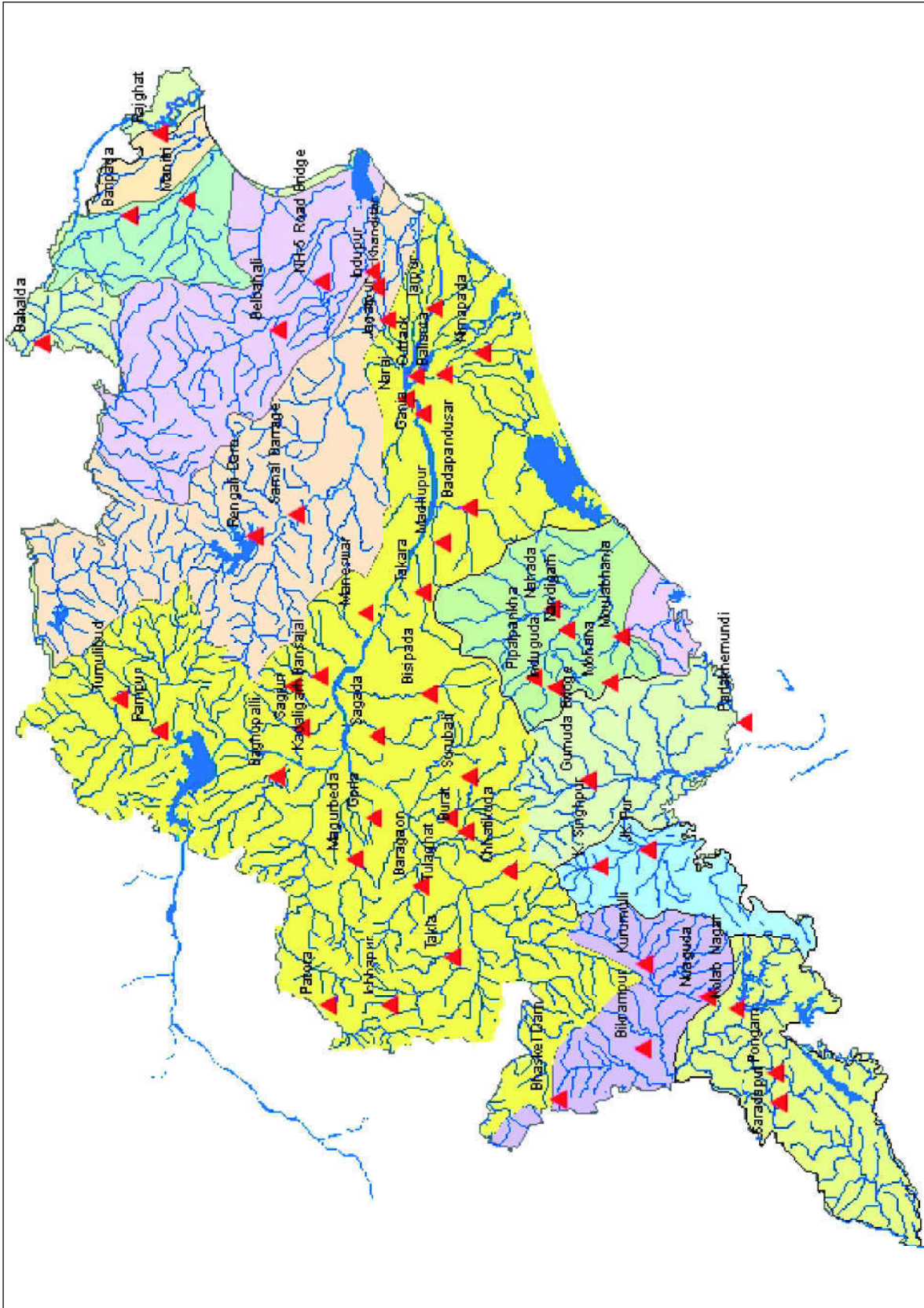
The estimates for the following works have been sanctioned in the table 4.4.9.

**Table - 4.4.9**

Sl No.	Particulars of Estimate for implementation of NHP (SW)	Estimated Amount
1	Procurement of three nos. of Acoustic Doppler Current Profiler (ADCP) for the River Basin in Odisha.	₹80,74,950
2	Procurement of three nos. of Boat with Outboard Engine for Office of the Director, Hydrometry & Data Centre, Bhubaneswar	₹1,49,46,000
3	Supply, Installation, Testing, commissioning, Training & Maintenance of Real Time Data Acquisition System for different River Basins in Odisha	₹10,20,36,550
Total		₹12,50,57,500

**Budgetary Outlay for the FY:2018-19**

Sl. No.	Sector/ Scheme	Budget Allocation (₹in lakh)	Expenditure (₹in lakh)
1	95-Hydrology Project, EAP Commercial (State Budget)	894.16	837.89 (93.71%)



*Map showing hydrological observation stations of Odisha completed under Hydrology Project funded by World Bank.*