



**GOVERNMENT OF ODISHA
DEPARTMENT OF WATER RESOURCES**

ANNUAL REPORT

FOR THE FINANCIAL YEAR: 2017-18.

**GROUND WATER DEVELOPMENT DIVISION,
BERHAMPUR.**

Salient Statistics of Ganjam, Gajapati and Kandhamal District.

Sl. No.	Particulars	Ganjam District	Gajapati District	Kandhamal District
1	2	3	4	5
1	Geographical Area	8706 Sq.Kms.	3017 Sq.Kms.	7536.08 Sq.Kms.
2	Latitude	18 ⁰ 58' to 20 ⁰ 17' N	18 ⁰ 46' to 19 ⁰ 38' N	19 ⁰ 34' to 20 ⁰ 42' N
3	Longitude	84 ⁰ 08' to 85 ⁰ 11' E	83 ⁰ 48' to 84 ⁰ 24' E	83 ⁰ 30' to 84 ⁰ 36' E
4	Block	22	7	12
5	Sub-division	3	1	2
6	Tahasil	14	3	4
7	Municipality	1	1	1
8	NACs	17	1	1
9	Village	3,171	1,576	2,515
11	Geology	Eastern-ghat formations:- Granite, Granite gneiss, Charnokite, Khondalite	Hard Rock Terrain Granite, Granite gneiss, Charnokite,	Eastern-ghat formations:- Granite, Granite gneiss, Charnokite, Khondalite
12	Major River	Rushikulya, Bahuda	Mahendratanaaya	Bagh, Khodaga, Salki, Vanshadhara
14	Irrigation Sources	Tanks, Canals, Wells	Tanks, Canals, Wells	Tanks, Canals, Wells
15	Climate	Sub-tropical monsoon	Sub-tropical monsoon	Sub-tropical monsoon
16	Temperature	Min.Temp.- 13 ⁰ C Max.Temp.- 42 ⁰ C	Min.Temp.- 14 ⁰ C Max.Temp.- 39 ⁰ C	Min.Temp.- 05 ⁰ C Max.Temp.- 41 ⁰ C
17	Humidity	60 to 90%	70 to 85%	30 to 60%
18	Avg. Annual Rainfall	1351 mm.	1673 mm.	1239 mm.
19	Hydrological Network station (Active)	Bore well = 47 Dug well = 17 Tube Well = 02	Bore well = 07 Dug well = 05 Tube Well = 00	Bore well = 10 Dug well = 45 Tube Well = 00

**ANNUAL REPORT ON PRESENT ACTIVITIES
OF G.W.DEVELOPMENT DIVISION, BERHAMPUR.**

Jurisdiction:

The Ground Water Development Division, Berhampur has been functioning from September-1990. It's jurisdiction is the whole Ganjam, Gajapati and Kandhamal District. The work of the division relates to survey & Investigation of Ground Water, feasibilities of GW extraction structures, monitoring of ground water potential, Artificial Recharge such as Roof Top Rain Water Harvesting Structures (Govt. & Private Building in Berhampur Urban Area) and demarcate the area suitable for different ground water structures. Ganjam District constitute 22 nos Block, Gajapati District constitute 07 nos Block and Kandhamal District constitute 12 nos Block.

1) Detailed Hydro-geological Survey conducted:

I. The detailed ground water report of 4 blocks namely, Sorada and Bellaguntha block of Ganjam district , Baliguda block of Kandhamal district and Rayagada block of Gajapati district have been completed and submitted in this current financial year.

II. Hydro-geological study under deposit work:

The VES deposit work at UCP Engineering School Campus, OPTCL EHT Construction Division Office campus at Narendrapur in Rangeilunda Block and Transit Nursery Premises at Khandadeuli in Aska Block under Ganjam District have been completed. Water Quality Analysis of Kalipalli Village of Chhatrapur Block under Ganjam District have been taken up on deposit basis.

Data Collection:

Rainfall data of Ganjam, Gajapati & Kandhamal district are collected in every month. The Water Table data are collected 4 times a year i.e Pre-Monsoon, Mid-Monsoon, Post-Monsoon & Post- Winter. Other data also collected simultaneously. All the data like Water quality data, Rainfall data, Meteorological data, etc. are submitted to head office. The process of data submission is mentioned below:

A total 136 monitoring Stations (133 GW+ 03 SW) are in operation within the jurisdiction to monitor the water level four times a year i.e. Pre-monsoon (May), Mid-monsoon (August), Post- monsoon (November) and Post- winter (February). Manual measurements have been recorded for all the observation wells within the observation network. The relevant data of W/L for all the monitoring sites have been validated and entered in GRASP software for creation of database.

2) Monitoring of Water Quality :

The water samples collected from different observation stations in different times are being analysed for 18 parameters of each sample in the Level-II Laboratory functioning under this division. The validation of data and data entries are done in GRASP software in DDPC at Berhampur.

3) Awareness Raising & Data Dissemination:

One time of Outdoor advertisement (such as leaflet distribution and propaganda by using public addressing systems) and One Hundred Twenty Nos of Street Play have been organised by this division during the FY-2017-18, for adoption of Roof top rainwater harvesting scheme in Berhampur municipality area.

4) Roof Top Rain Water Harvesting Scheme for Application of Artificial Recharge to Ground Water in Private & Govt. Building in Berhampur Urban Area:

The roof top rain water harvesting structure under the artificial recharge work for Private Building – 476 nos. & Govt. Building – 13 nos. have already been completed. However the total applications have been received with regards to Private RRHS - 638 nos.

5) List of additional activities looking ahead

- i)** Roof top rain water harvesting in Urban area
- ii)** Hydro-geological survey in ground water problematic area.
- iii)** Preparation of village wise detail ground water database and generating GIS map.

**PHYSICAL & FINANCIAL PROGRESS FOR THE YEAR 2017-18 OF
GROUND WATER DEVELOPMENT DIVISION, BERHAMPUR-**

Sl. No.	Description--	Allotment received	Expenditure	Physical Achievement
1	2	3	4	5
A.	<u>20-2702-02-005-1426-S&I</u> GWTable/Quality Monitoring in 41 blocks & 2 Towns (4times/year)			
a)	(a) Block Area Network stns	228000/-	201726/-	Pre, Mid, Post- monsoon & Post- winter WTM of Ganjam, Gajapati & Kandhamal district & procurement of polythene bottles for W.Q.Laboratory.
b)	(b) Town Area Network Stns.	40000/-	40000/-	Pre, Mid, Post- monsoon & Post- winter Urban WTM of Berhampur & Parala- khemundi Town.
2	Maintenance of Water Quality Laboratory / Data centre / Building.	241000/-	267047/-	Procurement of Glass ware & chemicals. R/M & renovation work at GWD Division, Berhampur. Procurement of computer consumable for W.Q.Laboratory.
3	Hydro-geological Survey & preparation of Block / District / Annual Report etc.	100000/-	-100000/-	Preparation of block report for Rayagada of Gajapati district , Sorada & Belaguntha of Ganjam district & Baliguda of Kandhamal district.
	Sub-Total:	6,09,000/-	6,08,773/-	
B.1	<u>270202-800-0129-37288</u> (Civil works) RRHS for Govt. building (Civil works)	3755293/-	3754362/-	Construction of 13 nos. of RRHS(Govt. building) in Berhampur Urban area .
2.	<u>2702-02-800-0129-43008</u> (Subsidy) RRHS for private building(Subsidy)	15000000/-	14999447/-	Construction of 476 nos. of RRHS(Pvt. building) in Berhampur Urban area .
3.	<u>2702-02-800-0129-20002</u> (Others) Other charges.	739000/-	738500/-	Conducting Street Play -120 shows in Berhampur Urban area. Outdoor advertisement & Printing of leaflets for RRHS Advertisement Programme.
	Sub-Total:	1,94,94,293/-	1,94,92,309/-	
	Grand Total :	2,01,03,293/-	2,01,01,082/-	

CONCLUSION :

The above mentioned paras show a brief note on some of the activities of this division, which are expected to expand in a more network fashion in the coming year.

**ER. YASOBANTA SATAPATHY
HYDROLOGIST,
GWD DIVISION, BERHAMPUR.**