

ANNUAL REPORT
OF
GROUND WATER DEVELOPMENT
DIVISION, BHAWANIPATNA
FOR THE FINANCIAL YEAR 2016 -2017

NAME OF DIVISION: GROUND WATER DEVELOPMENT DIVISION, BHAWANIPATNA

Location: Bhawanipatna
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Divisional Officer Name: Siba Charan Sahoo, Senior geologist

Jurisdiction: Districts of Kalahandi, Nuapada & Nawarangpur

Total no. of blocks: Kalahandi: 13 nos
Nuapada: 5 nos.
Nawarangpur: 10 nos.

Total 28 nos. blocks

Nos. of subdivisions functioning: 4 nos

Water quality laboratory : No

Staffing Pattern:

a. Regular- (Category Wise)	Nos.
Group A-	: 1
Group B-	: 6
Group C-	: 3
Group D-	: 2
b. work charged:	
Group C-	: 4
Group D-	: 3

ACTIVITIES OF GROUND WATER DEVELOPMENT DIVISION, BHAWANIPATNA

Major tasks undertaken in the districts of Kalahandi, Nuapada & Nawarangpur up to the Financial year 2016 -17 by this Ground Water Development Division are stated as follows :-

• **Ground Water Table Monitoring:**

At around 46 (36+10 DSS) locations in the districts of Kalahandi, 26 in Nawarangpur & 16 in Nuapada under National Hydrological Net work stations and 12 locations in Bhawanipatna town and 10 locations in Khariar town, the water table is being monitored four times a year i.e. pre-monsoon, mid-monsoon, post-monsoon and post-winter period to study the fluctuation and behavior of ground water resources. As far as the water level recorded during 2015-16 is concerned, it is seen that the water table is being gradually declining in most of the wells in the blocks of Dharmagarh, Jaipatna, Bhawanipatna, Golmunda, Karlamunda, Narla, T.Rampur & Lanjigarh at a rate of 0.002(Bhawanipatna) to 1.07 (Pastikudi), meter/year . Similarly from 0.015 to 1.151 in Nawarangpur and 0.004 to 0.725 in Nuapada districts. It may be due to scanty rainfall during last few years.

- **Ground Water Quality Monitoring:**

Ground water quality monitoring as base line survey is being conducted at 46, 26 & 15 locations of the districts of Kalahandi, Nuapada & Nawarangpur and 12 & 10 locations of Bhawanipatna & Khariar towns by analysing the water samples in water quality laboratory, Balangir. Similarly trend survey analysis is also being taken up for 7, 6 & 5 locations by monitoring water quality four times a year. There is also possible degradation of ground water quality at many places in the district due to industrial pollution, urban waste, application of fertilizers and chemicals in agriculture etc. Such problematic areas are covered under trend-cum- surveillance studies.

- **Ground Water Resource assessment:**

Based on Ground water estimation committee (GEC) norms 1997, ground water resource assessment for all the blocks of the districts have been completed incorporating the data collected during 2013-14

- **Ground Water Studies in water scare area:**

Detail ground water survey in the water shed of Bagbari of Karlamunda block is being taken up in the year 2016-17 for study on ground water pollution as the ground water in wells of some of villages are found to be contaminated with Nitrate & fluoride.

- **Preparation of report:**

District reports on ground water resources as well as block wise concise reports have been prepared and available in the Division library for reference. The data book on ground water activity for the year 2010-11 has been prepared and submitted to the head office for future reference. Similarly the Ground Water Year book comprising of all the available data has been prepared and submitted during this financial year 2014-15. The Ground Water Block reports for the blocks of Kalampur, Karlamunda, Jaipatna and Madan Rampur of Kalahandi district have been completed during FY 2016-17 and submitted to GWD Directorate office.

- **Restoration & Renovation of Piezometers :**

As Piezometers installed in the district have become old and in most of the locations the protection chambers and bore wells have been damaged. 9 nos. of Piezometers have been installed at Dhinguda, Chalan, Binapur, Kurumpur, Slida of Nuapada district Biswanathpur, Botilima, LanjigarhGP & LanjigarhHospitalcampus of Kalahandi district have been completed during FY2016-17

- **RRHS work at Titlagarh:**

The RRHS work in Titlagarh Urban area was entrusted to this Division in the later part of the financial year 2015-16. There is a lot of hindrance to start the work at Titlagarh like shortage of manpower, empanelment of RWHC etc. In spite of that, with much hard effort taken by field officers and staff, the RRHS work was taken up during financial year 2016-17 and achievement could be met very nearer to target. Two numbers of RRHS work on the roof of Government building like Minor Irrigation Sub-Division Office & Tahasil Office were completed and RRHS subsidy has been released to 38 private building owners who have successfully made RRHS.

Activities of GWD Division, Bhawanipatna, during 2016-17

Sl. no	Description of activities	Achievement	
		Physical	Financial in Rs
1	Ground Water Table & Quality monitoring in 28 blocks & 2(two) towns (Monitored 4 times a year)		
a	Ground water table & Quality monitoring in different blocks		1,72,000/-
	Kalahandi district(13 blocks)	46	
	Nuapada district (5 blocks)	16	
	Nawarangpur district (10 blocks)	26	
	Ground water		
b	Ground water table & Quality monitoring in Urban area		
	Bhawanipatna town in Kalahandi district	12	
	Khariar road town in Nuapada district	10	
2	Hydrogeological survey & Investigation(preparation of hydrogeological block report)		
a	Nuapada District:	Report submitted for 4 blocks (Kalampur, Jaipatana, Karlamunda&M.RampurBlocks of Kalahandi district)	1,00,000/-
b	Kalahandi district	DPR completed for Bagbari Watershed in Karlamunda block	
3	Installation of New Piezometers	9 nos in Kalahandi district	5,39,951/-
4	Miscellaneous activities		
a	Maintenance of office building/WQ laboratory/ DDPC		1,01,835/-
5	Rooftop rain water harvesting & Ground water recharge		
a	Rooftop rain water harvesting & Ground water recharge for Government building	2	4,31,568/-
b	Rooftop rain water harvesting & Ground water recharge for private building	6	13,17,246/-
c	Awareness raising activities for Rooftop rain water harvesting & Ground water recharge	In Titlagarh town	2,05,000/-