

ANNUAL REPORT OF GROUND WATER DEVELOPMENT DIVISION OF BOLANGIR,
OF FY -2016-17

Geographical area of jurisdiction is 17,847 sq.Km comprising of 4 districts
eg: Bolangir, Bargarha, Boud & Subarnapur

Jurisdiction of Water Quality Laboratory of Bolangir:

It comprises 7 districts of Bolangir and Bhawanipatna GWD Divisions.

- a. Under GWD Bolangir Division : Bolangir ,Bargarh, Boudh and Subarnapur district
- b. Under GWD Bhawanipatna Division : Kalahandi, Nuapada and Nabarangpur district
- c.

Parameters Analysed:

Electrical Conductivity, pH ,Calcium, Magnesium, Sodium, Potassium, Carbonate, Bicarbonate, Chloride ,Sulphate, Nitrate and Fluoride and Total dissolved salts

Instruments and equipments:

pH Meter, Conductivity Meter, Flame Photometer, Nephelometer , Ion Meter and UV-Spectrophotometer and other supporting instruments such as weighing Balance , Distilled Water Plant , Hot Air Oven ,Refrigerator etc.

Periodical Samples Collected & Analysed:

Winter(Trend)	Pre-Monsoon(Baseline)	Mid-Monsoon(trend)	Post-Monsoon(trend)
Nos. 105	Nos.274	Nos.43	Nos.43

Chemical Quality of Groundwater:

Groundwater of all the observations wells are found to be suitable for irrigations.

Fluoride Contaminated Areas:

Ground water of some of villages of following G.P are contaminated with Fluoride and its value exceeds normal value (1.5 mg/L)

District	Block	G.P	District	Block	G.P
Bolangir	Agalpur	Jharniapali, Bendra	Bolangir	Gudvela	Madhekela
Bolangir	Khaprakhol	Karunjhar, Rengali	Bolangir	Saintala	Karamtala, Bhadra
Bolangir	Loisinga	Kusang, Kusmel	Bolangir	Titlagarh	Marlad
Bolangir	Bolangir	Khujenpali, Sadeipali	Nuapada	Sinapalli	Sinapalli
Bolangir	Deogaon	Kultapada, Raipali, Sirabahal	Nuapada	Boden	Boden

Ground Water Potentials:

	Annual available resource	Rainfalls(normal)
Bolangir dist	57656HM	1298mm
Bargarh dist	46054HM	1367mm
Boud dist	27839HM	1623mm
Subarnapur dist	21429HM	1418mm

Depth to Water level from ground level readings are taken 4 times a year at 184 peizometer stations since 1991.

Water level Status and its Trends in PZM stn.:

Four Districts	Depth range		RISING (No of Stn.)	UNCHANGED (No of Stn.)	AVERAGE FALLING in CM/year (No of Stn.)	
	Min	Max				
Bolangir dist						
Bolangir town (18)	0.5m	8.9m	0	8	10	(- 30 cm)
Titlagarha town (12)	0.4m	6.5m	0	12	nil	
RURAL(84)	0.3m	9.8m	11	37	36	(-7 cm)
Bargarh dist						
RURAL(52)	1.4m	9.5 m	9	29	14	(-8 cm)
Boud dist						
RURAL(13)	0.3m	12m	6		7	(-7cm)
Subarnapur dist						
RURAL(35)	0.8m	10 m	21	0	14	(- 9.cm)

Groundwater Reports Prepared:

PREPARED FOR DIFFERENT CD BLOCKS BASING ON DATA and INFORMATION

- 1.Tarva Block (*Subarnapur District*)
- 2.Gaisilet (*Bargarh District*)
- 3.Padampur(*Bargarh District*)
- 4.Bhatli(*Bargarh District*)
- 5.Bijepur(*Bargarh District*)
- 6.Boudha(*Boudh District*)
- 7.Patnagarha(*Bolangir District*)
- 8.Khapharkala(*Bolangir District*)
- 9.Punitala(*Bolangir District*)
- 10.Gudvella(*Bolangir District*)
- 11.Jharabandha (*Bargarh District*)
- 12.Paikamal(*Bargarh District*)

Roof Top Rainwater Harvesting installed in Bolangir Town

	2015-16	2016-17	Total
For Private Buildings	59	108	167
For Govt Building	10	6	16

PHYSICAL TARGETS AND ACHIEVEMENTS DURING FY-2016-17

Sl. No.	Scheme	Description of Activities	Unit	Physical Target		Achievement		Remarks
1	2	3	4	5			6	7
1	GW	New Piezometers Installed	No	10			13	Replacing the old dugwell type piezometer
2		Block Reports	No	4			4	4 nos. submitted (Puintala & Khaprakhol of Bolangir dist., Jharband and Paikmal of Bargarha district)
3		DPR	No	1			1	Flouride areas of Bolangir district
4		Water Table Monitoring in 35No. Block 02 No. Towns	Season	4season for 35 blocks and 2towns			4 seasons completed	Pre,Mid,and Post monsoon and Winter season WL readings for 35 blocks and two urban areas has been completed during this FY
5		Saline Study		NA			-	NA
6	RRHS	(a)Civil Works (Govt.Building)	No	10			6	RRHS installed to 6 nos of Govt.buildings.
		(b)Subsidy (Pvt. Building)	No	100			108	Subsidy released
		(c)Others (Awareness Programme, Street Play, Advertisement (etc),hiring of vehicle	No	1			1	Publicity for RRHS

STAFF POSITION UNDER GROUNDWATER DIVISION BOLANGIR				
Sl.No.	Name of the post.	No. of sanctioned post.	No.of existing post.	Name of the incumbent.
1	2	3	4	5
1	Senior Geologist	1 post	1 post	Sri M.I. Prasad
2	A.E.Estimator(Civil)	1 Post	1 post	Vacant
3	Asst.Hydrologist	1 Post	1 post	Vacant
4	Asst. Executive Engineer(Mech.)	1 post	1 post	Vacant
5	Asst.Engineer(Mech.)	1 post	1 post	Vacant
6	Geologist (Project)	1 post	1 post	Sri A.. K. Acharya
7	Geologist (Monitoring)	1 post	1 post	Vacant
8	Jr. Engineer(Mech.)	1 post	1 post	Vacant
9	Tech. Assistant	1 post	1 post	Vacant
10	Asst. Accountant	1 post	1 post	Sri A. K. Shukla
11	Jr.Stenographer	1 post	1 post	Sri B.B. Sethy
12	Hydrochemist	1 post	1 post	Sri A. Khura
13	Jr. Hydrochemist	1 post	1 post	Vacant
14	Driller	1 post	1 post	Sri E. Soreng
15	Hand Drillar	2 post	2 post	vacant
16	Lab. Assistant	1 post	1 post	vacant
17	Jr.Clerk	1 post	1 post	Sri S. Das
18	Lab. Attendant	3 Post	3 Post	Vacant
19	Tracer	1 post	1 post	Vacant
20	Peon	2 post	2 post	1. Marthalata Sahu
21	Peon			2. K.R.Patnaik
				(50% vacant)
<u>WORKCHARGED</u>				
1	Graduate Engineer(Civil)	1 Post	1 Post	Sri P.K.Patel
2	Technical Assistant	1 Post	1 Post	Vacant
3	T racer	1 Post	1 Post	On Deputation
4	Typist	1 Post	1 Post	Sri R.K.Biswal
5	L.V.O.	1 Post	1 Post	Vacant
6	Progress Recorder	1 Post	1 Post	Sri P.K.Meher
7	Rig-Khalasi	1 Post	1 Post	Sri K.C.Tada
8	Khalasi	4 Post	4 Post	2Vacant
9	Helper	1 Post	1 Post	Sri L.K.Sahoo
10	Watcher	1 Post	1 Post	Sri B. Joshi

