

**ANNUAL REPORT OF GROUND WATER DEVELOPMENT DIVISION OF BOLANGIR,
FOR THE FINANCIAL YEAR 2017-18**

Geographical area

Groundwater development jurisdiction is 16, 877 sq.kms. The jurisdiction consists of 4 districts

1. Bolangir 2.Bargarh 3.Boud 4.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

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. 99	Nos.270	Nos.38	Nos.38

Chemical Quality of Groundwater:

The chemical qualities of Groundwater of all the observations wells are found to be suitable for irrigation purposes.

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)

Sl. No.	Range of Fluoride in mg/L	Name of the Block	Gram Panchayat	Name of the village or Location
1	➤ 4.0	Deogaon	Gaibahali	Guchipali, Raipali
			Uddar	Malipali
2	3.00 to 4.00	Bolangir	Sadeipali	Patharchappa,Phuljharan
			Khujenpali	Khujainpali
		Deogaon	Gaibahali	Guchipali,Raipali
			Badbandh	Ranapada
		Saintala	Kandhkelgaon	Sargipali
Pitamahul	Pitamahul upper pada			

		<i>Tureikela</i>	<i>Kuibahal</i>	<i>Kuibahal</i>
		<i>Khaprakhol</i>	<i>Karuanjhar</i>	<i>Karuanjhar</i>
3	1.50 to 3.00	<i>Agalpur</i>	<i>Jharnipali</i>	<i>Kudapali,Patharmunda,Adendungri</i>
			<i>Bendra</i>	<i>Rampur,Dhaunradad</i>
		<i>Loisinga</i>	<i>Kusmel</i>	<i>Kusmel ,Bamnipali</i>
		<i>Bolangir</i>	<i>Khujeinpali</i>	<i>Khujeinpali</i>
			<i>Sadeipali</i>	<i>Fuljharan,Patharchhpa,</i>
		<i>Deogaon</i>	<i>Gaibahal</i>	<i>Raipali,Ratanpur,Guchipali</i>
			<i>Kultapada</i>	<i>Kumuriapada</i>
			<i>Uddar</i>	<i>Luhernapali,Sirabahal,Malipali,Mohamadpur Uddar</i>
			<i>Jarasingha</i>	<i>Jarasingha,Barkani,Bandhpada,Nuapada</i>
			<i>Badabandh</i>	<i>Budabahal</i>
			<i>Brahmanijore</i>	<i>Talpali</i>
			<i>Sarasmal</i>	<i>Afamara</i>
		<i>Gudvela</i>	<i>Chinched</i>	<i>Ranapada</i>
		<i>Saintala</i>	<i>Karamtala</i>	<i>Jhimanpali</i>
			<i>Bhadra</i>	<i>Mahagaon,Bhadra,</i>
			<i>Kandhkelgaon</i>	<i>Kandhkelgaon,Sargipali,Sandpali,Kandhpada</i>
			<i>Saintala</i>	<i>Pitamahul</i>
		<i>Titlagarh</i>	<i>Marlad</i>	<i>Kanarla</i>
		<i>Khaprakhol</i>	<i>Karunjhar</i>	<i>Karunjhar,</i>
			<i>Bhanpur</i>	<i>Buromal</i>
<i>Tureikela</i>	<i>Kuhibahal</i>	<i>Kuhibahal,</i>		
	<i>Karuamunda</i>	<i>Karuamunda,Dhusamunda</i>		

Ground Water Potentials:

Name of the districts	Annual available resource As per assessment year 2009	Rainfalls(normal)	Available GW resources as on 31/3/2017
Bolangir dist	57656HM	1298mm	<i>Published soon after compliance with CGWB.</i>
Bargarh dist	46054HM	1367mm	
Boud dist	27839HM	1623mm	
Subarnapur dist	21429HM	1418mm	

Ground Water level:

Ground water level data are taken 4 times a year at 190 stations (Rural) of 4 districts since 1991.

The nos. of recorded stations are given below district wise.

Bolangir district	Bargarh district	Boudh district	Subarnapur district
Bolangir town (18) Titlagarha town (12) Rural (83)	Rural (58)	Rural (13)	Rural (36)

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.Boudh(Boudh District)
- 7.Patnagarha(Bolangir District)
- 8.Khaprakhhol(Bolangir District)
- 9.Punitala(Bolangir District)
- 10.Gudvella(Bolangir District)
- 11.Jharbandh (Bargarh District)
- 12.Paikmal(Bargarh District)
- 13.Tureikela (Bolangir District)
14. Muribahal (Boalngir District)

Rooftop Rainwater Harvesting installed in private and Govt. Buildings of Bolangir Town

Rooftop Rainwater Harvesting system in Bolangir town.	2015-16	2016-17	2017-18	Total
For Private Buildings	59	108	225	392
For Govt Building	10	6	6	22

PHYSICAL TARGETS AND ACHIEVEMENTS DURING FY-2017-18

Sl. No.	Scheme	Description of Activities	Unit	Physical Target	Achievement	Remarks
1	2	3	4	5	6	7
1	S&I	Block Reports	No	2	2	2 nos. submitted (Tureikela & Muribahal of Bolangir district)
2		Annual report	No	1	1	Year book for the year 2016-17.
3		Water Table Monitoring in 35No. Block 02 No. Towns	Season	4season for 35 blocks and 2 towns (Bolangir and Titilagarh)	4 seasons completed	Pre,Mid,Post monsoon and Winter season WT readings for 35 blocks and two urban areas has been completed.
4	RRHS	(a)Civil Works (Govt.Building)	No	6	6	RRHS installed in 6 nos. of Govt. buildings.
		(b)Subsidy (Pvt. Building)	No	200	225	Subsidy released
		(c)RRHS Others	No	(Awareness Programme, Street Play, Advertisement (etc),hiring of vehicle	(Awareness Programme, Street Play, Advertisement (etc),hiring of vehicle	Publicity for RRHS

STAFF POSITION UNDER GROUNDWATER DEVELOPMENT 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	Vacant
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	Vacant
7	Geologist (Monitoring)	1 post	1 post	Sri A.. K. Acharya
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

JURISDICTION MAP OF G.W.D DIVISION, BOLANGIR



- Legend :-**
- State Boundary
 - District Boundary
 - District Headquarters
 - Taluk Headquarters
 - Other Towns & Villages
 - Railway Line
 - National Highways with No.
 - Major Roads
 - Other Roads
 - Other Tourist Places
 - Airport
 - Temple
 - Church
 - Mosque
 - Gurdwara



83° 0' 83° 15' 83° 0' 83° 15'

20° 45' 20° 45'