

**ANNUAL REPORT**  
**ON ACTIVITIES OF**  
**GROUND WATER DEVELOPMENT**  
**DIVISION, BHAWANIPATNA**  
**FOR THE FINANCIAL YEAR 2017 -2018**



**NAME OF DIVISION: GROUND WATER DEVELOPMENT DIVISION, BHAWANIPATNA**

Location: Bhawanipatna  
Postal address: At: Paramanandapur  
P.O: Gandhi Chowk, Bhawanipatna  
Dist: Kalahandi  
Pin: 766001

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Divisional Officer Name: Arabinda Patnayak, Senior Geologist(I/C)

Jurisdiction: - **3** Nos Districts- **Kalahandi**, **Nuapada** & **Nabarangpur** district

Total no. of Blocks: - **28** Blocks

1. **Kalahandi**: **13** nos Blocks
2. **Nuapada**: **5** nos Blocks
3. **Nabarangpur**: **10** nos Blocks

Nos. of Sub-divisions : **4** nos

Water Quality laboratory : Nil

Staffing Pattern:

| a. Regular- (Category Wise) |   | Sanction Posts. | Present Position |
|-----------------------------|---|-----------------|------------------|
| Group A-                    | : | <b>1</b>        | <b>0</b>         |
| Group B-                    | : | <b>6</b>        | <b>4</b>         |
| Group C-                    | : | <b>3</b>        | <b>2</b>         |
| Group D-                    | : | <b>2</b>        | <b>1</b>         |
| b. work charged:            |   |                 |                  |
| Group C-                    | : | <b>5</b>        | <b>4</b>         |
| Group D-                    | : | <b>3</b>        | <b>2</b>         |

**ACTIVITIES OF GROUND WATER DEVELOPMENT DIVISION, BHAWANIPATNA**

Various activities undertaken by this division in the districts of **Kalahandi**, **Nuapada** & **Nabarangpur** during to the Financial year **2017 -18** by this Ground Water Development Division are described as details below :-

• **Ground Water Table Monitoring:**

Ground water table monitoring is undertaken- **4** times in a year

At **88** locations across **3** nos districts

**Kalahandi District-** **49** locations (Observation wells- Peizometer & Dugwells active)

**Nabarangpur District-** **26** locations (Observation wells- Peizometer & Dugwells active)

**Nuapada District-** **13** locations (Observation wells- Peizometer & Dugwells active)



## Ground Water table Monitoring –Urban Area – 2 Nos urban areas covered

1. **Bhawanipatna** urban area - **13** Locations ( 12 nos Dug Wells & 1 No bore Well )
2. **Khariar** urban area - **10** locations (10 Nos Dug Wells )

( Water table is monitored four time in a year i.e. pre-monsoon in month of **May**, mid-monsoon in the month of **August**, Post-monsoon in the month of **November** and post-winter period in the month of **February** & recorded in **Field Book** Format . Long term trend of water table data upto 2017-18 showing declining trend of water table in most of the wells in the blocks of , Jaipatna, Bhawanipatna, Golmunda, Karlamunda, Narla, Th.Rampur & Lanjigarh of Kalahandi district, and Nabarangapur, Jharigaon, Dabugaon , Nandahandi of Nabarangapur district and Khariar, Nuapada of Khariar district due to scanty rainfall during last few years)

- **GRASP DATA BASE MAINTENANCE**

One computer system is exclusively used for **GRASP** Data Base maintenance in Division Data Centre. Water table data , water quality & rainfall data have been entered in GRASP data base upto **Post-winter 2018** .Hard copy of field book , soft copy of mdb files, wttto file, index register upto **Post-winter 2018** have been submitted to Chief Engineer & Director, GWD Odisha, Bhubaneswar.

- **Ground Water Quality Monitoring:**

1. **Base Line Survey-** Water samples have been collected from total **88** locations given district wise below.



**A. Kalahandi- 49**

**B. Nuapada- 26**

**C. Nabarangpur-13**

( as part of base line survey during May 2017 and submitted to Water Quality Laboratory , Balangir for quality analysis )

2. **Trend Survey-** **18** Nos water Samples collected **3** times during Mid-Monsoon, Post-Mon, Post-winter from the district wise locations mentioned below

A. **Kalahandi District-** **7** locations( 5 nos Observation wells, 2 nos River )

B. **Nabarangapur District-** **7** Locations ( 6 Nos Observation Wells, 1 No River )

C. **Nuapada District-** **4** Locations ( 3 Nos Observation Wells, 1 No River )

### **Ground Water Quality Monitoring( Urban Area)**

Ground water quality monitoring is done by collecting water samples from

A. Bhawanipatna urban area - **13** Nos

B. Khariar urban area- **10** Nos

(During **Post-winter 2018**(February 2018) and submitted for analysis to the water quality laboratory, Balangir. )

- **Preparation of Hydrogeological Report:**

The Hydrogeological Report preparation have been undertaken for the following blocks of Nabarangapur district.

1 **Papadhandi Block**

2, **Dabugaon Block**

(Report completed during FY 2017-18 and submitted to GWD Directorate office.)

- **RRHS work at Titlagarh:**

The RRHS work in Titlagarh Urban area was undertaken by this Division since FY 2015-16. A site office is functioning at Titlagarh town, The following Staff posted at Titlagarh office for smooth functioning of Official works.

1. Tech Asst- 1 No
2. Work charged Tracer-1 No ( deputation from GWD Division, Balangir)
3. Work charged Khalasi -1 No (Deputation from GWD Division,Balangir)

**Implementation of Roof Top Rain Water Harvesting structures**

RRHS scheme have been implemented by this division during this period as below-

- 1.**Govt Building-** 6 nos Government building at Titlagarh urban area .



- 2.**Private Building-** 112 nos of private buildings

(Subsidy released to 112 building owners of Titlagarh Town.)

- **Public Awareness-** Publicity of the RRHS scheme has been done by creating awareness through **street plays** conducted covering almost all wards and important locations of Titlagarh town.

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### **Activities of GWD Division, Bhawanipatna, during 2017-18**

| 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)              |  |                    |
| <b>a</b> | <b>Ground water table &amp; Quality monitoring in different blocks</b>                                      |  | <b>2,00,000/-</b>  |
|          | Kalahandi district(13 blocks)   | 49   |                    |
|          | Nuapada district (5 blocks)   | 13   |                    |
|          | Nawarangpur district (10 blocks)  | 26   |                    |
|          | Ground water  |  |                    |
| <b>b</b> | <b>Ground water table &amp; Quality monitoring in Urban area</b>  |  |                    |
|          | Bhawanipatna town in Kalahandi district   | 13   |                    |
|          | Khariar road town in Nuapada district   | 10   |                    |
| <b>2</b> | <b>Hydrogeological survey &amp; Investigation( preparation of Hydrogeological block report)</b>             |  |                    |
| a        | Nabarangapur District:  | Report submitted for 2 blocks (Papadhandi, Dabugaon block of Nabarangaapur district) | <b>50,000/-</b>    |
| <b>4</b> | <b>Miscellaneous activities</b>   |  |                    |
| a        | Maintenance of office building/WQ laboratory/ DDPC  |  | <b>152,999/-</b>   |
| <b>5</b> | <b>Rooftop rain water harvesting &amp; Ground water recharge</b>  |  |                    |
| a        | Rooftop rain water harvesting & Ground water recharge for Government building                               | 6  | <b>16,94,626/-</b> |
| b        | Rooftop rain water harvesting & Ground water recharge for private building                                  | 112  | <b>33,46,530/-</b> |
| c        | Awareness raising activities for Rooftop rain water harvesting & Ground water recharge & other expenditure. | In Titlagarh town  | <b>225,000/-</b>   |