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**STATE POLLUTION CONTROL BOARD, ODISHA**  
[DEPARTMENT OF FOREST, ENVIRONMENT AND CLIMATE CHANGE,  
GOVERNMENT OF ODISHA]  
Paribesh Bhawan, A/118, Nilakantha Nagar, Unit – VIII

VISC(LEM)Proj-304 (Vol-III)/2022-23

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No. 5618

Date : 04.04.2023

To

Executive Director, Technical  
National Mission for Clean Ganga,  
Department of Water Resources, River Development & Ganga Rejuvenation,  
Ministry of Jal Shakti, 1<sup>st</sup> Floor, Major Dhyan Chand National Stadium,  
India Gate, New Delhi – 110 002

Sub: Submission of Monthly Progress Report for February- 2023 related to Control of River Pollution – Reg.

Ref: (1) Email dtd. 08.10.2020  
(2) NRCD Email on 26.01.2023

Sir,

In inviting reference to above subject, the Monthly Progress Report for the month of February, 2023 in the matter of O.A. 673 of 2018 is enclosed herewith for your kind information and necessary action.

Encl : As above

Yours faithfully,

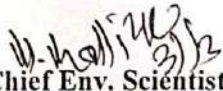
  
Member Secretary

Memo No. 5619

Dt. 04.04.2023

Copy forwarded to Director, Env.-cum. Spl. Secretary to Government, Forest, Environment and Climate Change Department, Govt. of Odisha for kind information and necessary action.

Encl : As above

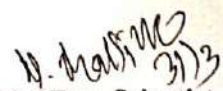
  
Chief Env. Scientist

Memo No. 5620

Dt. 04.04.2023

Copy forwarded to the Engineer-in-Chief, Water Resource Department, Government of Odisha through mail ([eic-wr.od@nic.in](mailto:eic-wr.od@nic.in)) for kind information.

Encl : As above

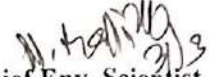
  
Chief Env. Scientist

Memo No. 5621

Dt. 04.04.2023

Copy forwarded to the Joint Secretary to Govt. and Joint Mission Director, SBM, (Urban), Housing and Urban Development Department through mail ([sanitationhud@gmail.com](mailto:sanitationhud@gmail.com)) for kind information.

Encl : As above

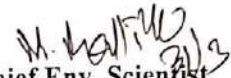
  
Chief Env. Scientist

Memo No. 5622

Dt. 04.04.2023

Copy forwarded to the Member Secretary, Orissa Water Supply and Sewerage Board through mail ([msowssb@gmail.com](mailto:msowssb@gmail.com)) for kind information.

Encl : As above

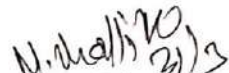
  
Chief Env. Scientist

Memo No. 5623

Dt. 04.04.2023

Copy forwarded to Er. Mamata Patnaik, System Administrator, State Pollution Control Board, Odisha through mail ([paribesh1@ospcboard.org](mailto:paribesh1@ospcboard.org)) for information and taking action to upload the MPR in RRC website ([www.rrcodisha.org](http://www.rrcodisha.org))

Encl : As above

  
Chief Env. Scientist

## National Mission for Clean Ganga

### Format for submission of Monthly Progress Report in the NGT Matter OA No. 673 of 2018 (in compliance to NGT order dated 24.09.2020)

#### For the State of ODISHA for the month of February, 2023

#### Overall status of the State:

##### I. Total Population: Urban Population & Rural Population separately

As per **Census 2011**,

|                            |                 |
|----------------------------|-----------------|
| Total population of Odisha | is 4,19,74,218. |
| Urban population           | is 70,03,656.   |
| Rural population           | is 3,49,70,562  |

##### II. Estimated Sewage Generation (MLD):

Sewage generation in the State :

Based on total water supply to 115 ULBs of the state, which is 1100 MLD, wastewater generation has been calculated as 80% of the water supply which comes around 880 MLD. However, considering that 41% of the population is concentrated around five large cities, Odisha has gone for underground sewer systems for only five large cities (Bhubaneswar, Cuttack, Sambalpur, Rourkela, Puri) and another town, Talcher.

Total Wastewater generation from these six areas is 302.01 MLD.

- (1. Bhubaneswar Municipal Corporation (114.97 MLD), 2. Cuttack Municipal Corporation (82.54 MLD), 3. Sambalpur Municipal Corporation (43.51 MLD), 4. Rourkela Municipal Corporation (35.65 MLD), 5. Puri Municipality (20.05 MLD) and 6. Talcher Municipality (5.29 MLD))

#### III Details of Sewage Treatment Plant:

- Existing no. of STPs and Treatment Capacity (in MLD): 13 STPs : 370.50 MLD
- STPs under Construction : Nil
- Total Number of STPs and Treatment Capacity (in MLD): 13 STPs : 370.50 MLD
- Capacity Utilization of existing STPs: 133.49 MLD
- Sewage being treated through Alternate technology: [Faecal Sludge Treatment Plant (FSTP)]
  - Existing number of FSTPs and Treatment capacity : 110 FSTPs : 1917 KLD (1.917 MLD)  
(Detail list enclosed at page 29 )
  - FSTPs under construction : 9 FSTPs : 140 KLD (0.14 MLD)
  - Total number of FSTPs and Treatment capacity : 119 FSTPs : 2057 KLD (2.057 MLD)
    - (i) Total Wastewater generated in the State : 880 MLD
    - (ii) Capacity for treatment through 13 STPs : 375.50 MLD
    - (iii) Capacity for treatment through 119 FSTPs : 2.06 MLD
    - (iv) Total capacity for treatment through 13STPs and 119 FSTPs : 377.56 MLD
    - (v) Balance wastewater to be treated (i)-(iv) : 502.44 MLD

Through Grey Water Management System (Now under piloting stage)

- Time frame for completion of balance 19 SeTPs (FSTP) out of 119 SeTPs- June 2023

1. Dharamgarh (10 KLD), 2. Belaguntha (10 KLD), 3. Koraput (10 KLD), 4. Banapur (10 KLD), 5. Balugaon (10 KLD), 6. Burla (20 KLD), 7. Hirakud (20 KLD), 8. Jajpur (20 KLD (at revised location), 9. Remuna NAC (20 KLD)

- Gap in Treatment Capacity in MLD:

Total quantity of sewage generation from (Bhubaneswar, Cuttack, Sambalpur, Rourkela, and Puri) plus another town, Talcher is 302.01 MLD

Sewage treatment facility at various stages of operationalization for these six areas = 13 Nos. of STPs with total installed capacity; 370.50 MLD

Gap in installed treatment capacity:  $370.50 - 370.50 = 0$  MLD

For the rest of 109 ULBs, the State has embarked on decentralized non sewerage approach for treating black water and greywater separately. The approach has been divided into two phases. First phase focused on achieving completing black water security through Faecal sludge & Septage Management. Next phase is focusing on treatment of greywater by pilot intervention in two ULBs at Jatni and Dhenkanal. Based on the learning from the pilot projects, the greywater management will be scaled up in all 110 ULBs, except Puri, Bhubaneswar, Cuttack, Sambalpur & Rourkela where STP construction either completed or under progress.

- No. of Operational STPs: 12 STPs  
(1 STP of 33 MLD capacity at Mattagajpur, Cuttack is under shutdown as drainage network under JICA is under progress)
- No. of Complying STPs 12 STPs
- No. of Non-complying STPs : Nil
- No. of Under Construction STPs : Nil

**Details of each existing STP in the State**

| No.            | Location          | Existing STP Capacity | Capacity Being Utilized | Operational Status of STP     | Compliance Status of STP                                         |
|----------------|-------------------|-----------------------|-------------------------|-------------------------------|------------------------------------------------------------------|
| <b>Cuttack</b> |                   |                       |                         |                               |                                                                  |
| 1              | CDA-Bidanasi area | 36 MLD                | 23.31 MLD               | O & M by OISIP, JICA, Cuttack | Running Smoothly                                                 |
| 2              | Mattagajpur       | 33 MLD                | 0                       | O & M by WATCO                | STP is under shut down as drainage work is going on JICA project |
| 3              | Mattagajpur       | 16 MLD                | 2.87 MLD                | O & M by OISIP, JICA, Cuttack | Running Smoothly                                                 |
| <b>Puri</b>    |                   |                       |                         |                               |                                                                  |
| 4              | Mangalaghat       | 15 MLD                | 15 MLD                  | O & M by WATCO                | Running Smoothly                                                 |

|                        |                    |                   |                   |                                                                       |                                    |
|------------------------|--------------------|-------------------|-------------------|-----------------------------------------------------------------------|------------------------------------|
| 5                      | Bankimuhan         | 10 MLD            | 5.05 MLD          |                                                                       | Running Smoothly                   |
|                        | <b>Talcher</b>     |                   |                   |                                                                       |                                    |
| 6                      | Mandapal           | 2 MLD             | 2 MLD             | O & M by PHEO                                                         | Running Smoothly                   |
|                        | <b>Bhubaneswar</b> |                   |                   |                                                                       |                                    |
| 7                      | Meherpalli         | 56 MLD            | 14.00 MLD         | O & M by WATCO                                                        | Operational since December, 2020   |
| 8                      | Basuaghai          | 28 MLD            | 16.00 MLD         |                                                                       |                                    |
| 9                      | Kochilaput         | 43.5 MLD          | 10.50 MLD         |                                                                       |                                    |
| 10                     | Paikarapur         | 8 MLD             | 8 MLD             |                                                                       |                                    |
| 11                     | Rokat              | 48 MLD            | 8.06 MLD          | JICA                                                                  | Commissioned on 31.12.2022         |
|                        | <b>Rourkela</b>    |                   |                   |                                                                       |                                    |
| 12                     | Ruptala Balughat   | 40 MLD            | 3.70 MLD          | Partly Commissioned since Feb, 2021<br>O & M by WATCO from June, 2022 | Running Smoothly                   |
|                        | <b>Sambalpur</b>   |                   |                   |                                                                       |                                    |
| 13                     | Sambalpur          | 40 MLD            | 25 MLD            | OWSSB                                                                 | Commissioned during December, 2022 |
| <b>Total : 13 STPs</b> |                    | <b>370.50 MLD</b> | <b>133.49 MLD</b> |                                                                       |                                    |

**Details of partly commissioned/ under construction STPs in the State**

| Sl. No. | No. of STPs | Location                | Capacity of the plant in MLD | Physical Progress in %     | Status of I&D or House sewer connections | Completion Timeline                                               |
|---------|-------------|-------------------------|------------------------------|----------------------------|------------------------------------------|-------------------------------------------------------------------|
| 1       | 5           | <b>Bhubaneswar</b>      |                              |                            |                                          |                                                                   |
|         |             | Rokat, Bhubaneswar      | 48                           | Commissioned on 31.12.2022 | 37.49 % (13495 out of 36000 Nos)         | Sewer Network : March, 2023; House Sewer Connection : March, 2023 |
|         |             | Meherpalli, Bhubaneswar | 56                           | Commissioned               | 47.50 % (35747 out of 75269)             | House Sewer connection- December, 2022                            |
|         |             | Basuaghai, Bhubaneswar  | 28                           |                            | 65% (24462 out of 37634)                 |                                                                   |
|         |             | Kochilaput, Bhubaneswar | 43.5                         |                            | 43.07 % (25187 out of 58468)             | March, 2023                                                       |
|         |             | Paikarapur, Bhubaneswar | 8                            |                            | 100 % (10753 out of 10753)               | Completed                                                         |

|   |   |                   |    |                                                                                                       |                                                                                                                                                                      |                                                                                      |
|---|---|-------------------|----|-------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 2 | 2 | Cuttack           |    |                                                                                                       |                                                                                                                                                                      |                                                                                      |
|   |   | Mattagajpur (ASP) | 16 | Commissioned since 01.3.2022                                                                          | STP is commissioned, House sewer connection is under progress. After completion of all house sewer connections, wastewater will not be discharged to river Kathajodi | Sewer network : March, 2023<br>House Sewer connection-March, 2023                    |
|   |   | CDA, Cuttack      | 36 | Commissioned since 27.11.2019                                                                         | 40.12 %<br>(17454/ 43500 Nos.)                                                                                                                                       | House Sewer connection-March, 2023                                                   |
| 3 | 1 | Sambalpur         | 40 | STP is commissioned during December, 2022 and treating around 25 MLD wastewater from Dhobijore nallah | 0% (0/30,635 Nos.)                                                                                                                                                   | Sewer Network (part): March, 2023,<br>House Sewer Connection (Part) : December, 2023 |
| 4 | 1 | Rourkela          | 40 | Commissioned since February, 2021                                                                     | 8.78<br>(1054/ 12000 Nos.)                                                                                                                                           | Sewer network and House Sewer connection-December, 2022                              |

### **Details of proposed STPs in the State**

| No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Location | Capacity of the STP proposed in MLD | Status of Project (at DPR Stage/ Under Tendering/ Work to be Awarded) | Likely Date of Completion |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------------------------------|-----------------------------------------------------------------------|---------------------------|
| <b>Nil</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |                                     |                                                                       |                           |
| <p>Since laying of sewer networks involve huge capital and O &amp; M costs and public inconvenience, steps are being taken to cover all the cities and towns in the State by setting up Septage Treatment Plants to manage the faecal wastewater to reduce environmental pollution. In this process all 115 ULBs of Odisha will be covered. Out of this, 110 SeTPs have already been constructed in 108 ULBs and construction of 9 SeTPs are under progress which will cover rest 7 ULBs.</p> |          |                                     |                                                                       |                           |

#### **Financial implication for establishment / O&M of Septage Treatment Plants**

| Financial Year | Budgetary Provision under Urban Septage System<br>(Rupees in Crore) |
|----------------|---------------------------------------------------------------------|
| 2020-21        | 150.00                                                              |
| 2021-22        | 80.00                                                               |
| 2022-23        | 70.00                                                               |

(Information received from Housing and Urban Development Department , Govt. of Odisha has been attached as Annexure-1)

#### **IV. Details of Industrial Pollution:**

- Total Number of Industries : 7366
- No. of water polluting industries in the State: 1319
- Quantity of effluent generated from the industries in MLD: 815.774 MLD  
(For treatment)
- Quantity of Hazardous Sludge generated from the Industries in TPD : 141.9 TPD
- Number of industrial units having ETPs: 1279
- Number of industrial units connected to CETP: No CETP in the State
- Number and total capacity of ETPs (details of existing/ under construction / proposed)  
Existing : 1279 Numbers, 1037.297 MLD  
Under Construction : Nil  
Proposed : Nil  
**Total : 1279 Numbers, 1037.297 MLD**
- Compliance status of the ETPs:
  - - As per the frequency of inspection norms vide Office Order No. 1081 dated 31.01.2020, ETPs of 71 numbers of Industries have been inspected for compliance status during February, 2023. Out of these, 62 numbers of ETPs comply to the discharge norms.
  - Wherever violation is observed, show cause notices are being issued to the industries. Closure direction has been issued to 40 number of units for not having ETPs.
  - During February, 2023, for non-compliance of ETP discharge norms, Show Cause Notices have been issued to 9 number of industries.
- Number and total capacity of CETPs (details of existing/ under construction / proposed)  
Nil
- Status of compliance and operation of the CETPs :

| Town           | No. of industries | Industrial discharge | Status of ETPs | Status of CETPs (existing, under construction & proposed) |
|----------------|-------------------|----------------------|----------------|-----------------------------------------------------------|
| Not applicable |                   |                      |                |                                                           |

## V. Solid Waste Management:

- Total number of Urban Local Bodies and their Population: 115 Urban Local Bodies
  - Total number of Urban Local Bodies:115
  - Population: 60,69,229 (as per 2011 census)
- Current Municipal Solid Waste Generation : 2267 TPD
- Number, installed capacity and utilization of existing MSW processing facilities in TPD (bifurcated by type of processing eg- Waste to Energy (Tonnage and Power Output), Compost Plants (Windrow, Vermi, decentralized pit composting), bio methanation, MRF etc
- Existing MSW Processing Facilities :

| Type of Processing Facility                                                    | Numbers | Installed Capacity (in TPD) | Utilization |
|--------------------------------------------------------------------------------|---------|-----------------------------|-------------|
| Compost Plant- Micro Composting Centre (MCC) and 1 Mechanical Composting Plant | 251     | 1182.5                      | 83 %        |
| Materials Recovery Facility (MRF)                                              | 216     | 2220                        | 46 %        |

- Action plan to bridge gap between Installed Capacity and Current Utilization of processing facilities (if Gap > 20%)
  - ✓ Material Recovery facilities are designed for a higher capacity considering population forecast, optimal utilization of resources and to take care of the additional loads of dry waste from urban-rural convergence. Therefore, presently the processing facilities run at lesser capacity.
- No. and capacity of C&D waste processing plants in TPD (existing, proposed and under construction)

All 114 ULBs have designated sites for storage of Construction & Demolition waste.126 numbers of such sites across all ULBs of Odisha have been notified for wider circulation amongst public. Further, the C&D waste is used for construction of road subgrade, temporary pathways, raising the low-lying areas, etc. thereby offsetting the use of soil for all these purposes.

- Total no. of wards, no. of wards having door to door collection service, no. of wards practicing segregation at source

| Total no. of Wards | No. of Wards having Door to door collection Service | No. of Wards practicing Source Segregation |
|--------------------|-----------------------------------------------------|--------------------------------------------|
| 2055               | 2035 (99%)                                          | 2035 (99%)                                 |

- Details of MSW treatment facilities proposed and under construction (no., capacity, and technology)
  - MSW processing facilities Proposed:
    - Composting Facility - Micro Composting Centre (MCC) : 278 Nos. (Capacity : 1296 TPD)
    - Material Recovery Facilities (MRF): 223 Nos. (Capacity: 2290 TPD)
  - MSW processing facilities Functional :
    - Composting Facility- Number of Functional Micro Composting Centre (MCC) : 251 Nos.(Capacity : 1182.5 TPD)
    - Number of Functional Material Recovery Facilities (MRF): 216 Nos. (Capacity: 2220 TPD)
  - MSW processing facilities Under Construction:
    - Composting Facility - Micro Composting Centres (MCC): 27 Nos. (Capacity : 113.5 TPD)
    - Material Recovery Facilities (MRF): 7 Nos. (Capacity: 70 TPD)
- No. and area (in acres) of uncontrolled garbage dumpsites and Sanitary Landfills.
  - Garbage dumpsites: 76 numbers (371 Acre approx.)
  - Sanitary Landfill: Nil
- No. and area (in acres) of legacy waste within 1km buffer of both side of the rivers : Nil
- No. of drains falling into rivers and no. of drains having floating racks/screens installed to prevent solid waste from falling into the rivers
  - No. of drains reaching to River System, lakes, Water Bodies, Pond, Marsh Land, Water Lands: 225
  - Drains having floating racks/screens installed: 225

**Status of ULB wise Management of Solid Waste**

| ULB                    | Total MSW generation in TPD | Total MSW being processed in TPD | Existing MSW facilities | Utilization Capacity of the existing MSW facilities | Proposed MSW Facilities & Completion Timeline |
|------------------------|-----------------------------|----------------------------------|-------------------------|-----------------------------------------------------|-----------------------------------------------|
| Enclosed as Annexure-1 |                             |                                  |                         |                                                     |                                               |
|                        |                             |                                  |                         |                                                     |                                               |

### **Financial Implication**

| Financial Year | Budgetary Provision<br>(Rupees in Crore) |
|----------------|------------------------------------------|
| 2019-20        | 90.00                                    |
| 2020-21        | 400.00                                   |
| 2021-22        | 215.00                                   |
| 2022-23        | 250.00                                   |

(Information received from Housing and Urban Development Department , Govt. of Odisha has been attached as Annexure-1)

### **VI. Bio-medical Waste Management:**

- Total Bio-medical generation: 15303.76 Kg/Day (As per Annual Report, 2020 sent to CPCB) Besides these, 951024.776 Kg of Biomedical waste was generated during 2020.
- No. of Hospitals and Health Care Facilities: 3676 (As on December, 2020)
- Status of Treatment Facility/ CBMWTF: --

Bio-medical wastes generating from the health care establishments are being managed either through common biomedical waste treatment and Disposal (CBWTDF) facilities or by deep-burial practice.

1. M/s. Sani Clean Pvt. Limited, Tangiapada, Dist: Khurda
2. M/s. Mediaid Marketing Services, Amasranga, Dist: Sundargarh
3. M/s. Mediaid Marketing Services, Seragada, Dist: Ganjam
4. M/s. Mediaid Marketing Services, (SCB Medical College and Hospital, Cuttack)
5. M/s. Bio-Tech Solution, Berhampur (VSS Medical College and Hospital, Burla, Sambalpur)
6. Mis. Life Line Pharma, (MKCG MCH) Berhampur, Ganjam
7. M/s Renewable Envirogic Pvt. Ltd., Jhankarpali, Sialibahali, Bolangir

### **VII. Hazardous Waste Management:**

- Total Hazardous Waste generation: 6,90,245.908 T /Annum  
(out of which 6,34,982.861 T /Annum (@92%) is recyclable and utilizable hazardous wastes)

(Monthwise data is not available. Monthwise generation of Hazardous waste are not submitted by the hazardous waste generator. However, as per the hazardous and other waste (Management and Transboundary Movement) Rules, 2016, All the occupiers of hazardous units are required to submit annual return by 13<sup>th</sup> June, for the preceeding financial year.)

- No. of Industries generating Hazardous waste : 366

- Treatment Capacity of all TSDFs : 2,14,810.340 T/ annum
- Avg. Quantity of Hazardous waste reaching the TSDFs and Treated : 55416.072 T/ annum.
- Details of on-going or proposed TSDF :

A common Hazardous waste Treatment, Storage and Disposal Facility (CHWTSDF) has been established during the financial year 2010-11 at Kanchichuan in Jajpur district of Odisha. The Facility is being operated by M/s Ramky Enviro Engineers Ltd, Hyderabad. So far, 179 nos. of Industries/ Mines have taken membership agreement with the CHWTSDF.

Two more TSDFs are in proposal stage.

(i) Odisha Waste Management Project of M/s Re Sustainability Limited. Location of TSDF : Lakhanpur, Dist- Jharsuguda

(ii) Odisha Waste Management Project of M/s Re Sustainability Limited. Location of TSDF : Padampur, Gunupur, Rayagada

### **VIII. Plastic Waste Management:**

- Total Plastic Waste generation: 136 TPD
- Treatment/ Measures adopted for reduction or management of plastic waste:
  - The trade, manufacture, import, store, carry, transport and use of single use plastic and plastic carry bags are prohibited within the jurisdiction of all ULBs
  - The segregated and stored plastic waste at Materials Recovery Facilities are sold off to registered plastic recyclers for further processing and recycling.
  - Non-Recyclable Plastic Waste are sent to Cement Factory for Co-Processing.

(Information received from Housing and Urban Development Department , Govt. of Odisha  
- has been attached as Annexure-1)

### **IX. Details of Alternate Treatment Technology being adopted by the State/UT**

Besides, establishing Sewage Treatment Plants for treatment of municipal wastewater, actions has also been taken to treat fecal sludge being generated from the urban local bodies under Septage Management System in a phased manner which is envisaged to be taken up during the period from 2016-17 to 2021-22 which will lead to improved urban sanitation with positive impact on public health, environment & river water quality. Since the cost of construction and Operation and Maintenance of Septage Treatment Projects is low, such projects are now implemented in different ULBs of the State.

At present 1.917 KLD (1.917 MLD) septage is being treated through Septage Treatment Plants in 110 nos. of SeTPs in ULBs of the State against the 119 SeTPs in 115 ULBs. Balance 9 nos. of SeTPs (140 KLD) are under progress. Time Frame for completion of these 9 Nos. of SeTP are within June, 2023.

(Information received from Housing and Urban Development Department , Govt. of Odisha  
- has been attached as Annexure-1)

**X. Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment:** Drains contributing to river pollution have been identified by H & UD Department. Detail information is under preparation

**XI. Details of Nodal Officer appointed by Chief Secretary in the State/UT:**

**XII. Details of meetings carried under the Chairmanship Chief of Secretary in the State/UT:**

Till date, eight Review meetings of Environmental Monitoring Cell were held under the chairmanship of the Chief Secretary, Odisha on Dt. 13.11.2020, 19.02.2021, 29.4.2021, 15.07.2021, 18.01.2022, 07.04.2022, 18.11.2022 and 17.03.2023.

**(Minutes of 8<sup>th</sup> Review Meeting as received from Forest, Environment & Climate Change Department , Govt. of Odisha has been attached as Annexure-2)**

Fourth meeting of River Rejuvenation Committee was held under the chairmanship of the Additional Chief Secretary, Forest, Environment and Climate Change Department, Govt. of Odisha on Dt. 07.9.2021.

**( Minutes of 4<sup>th</sup> RRC Meeting as received from Forest, Environment and Climate Change Department , Govt. of Odisha has been attached as Annexure-3)**

Two review meetings on Restoration of Daya river under the chairmanship of the Chief Secretary has been conducted on Dt. 30.4.2022 and Dt. 02.7.2022.

**( Minutes of Review Meetings has been attached as Annexure-4 and 5)**

**XIII. Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;**

Enclosed as Annexure-6.

Status of 19 Polluted River stretches in the State of Odisha during the period 2017-2023 with maximum BOD values during the year (Upto February, 2023) is given as Annexure7 (a) and Summary of number of polluted river stretches under different category during the period 2017-2023 (upto February, 2023) is given as Annexure-7 (b).

Latest water quality of all river water quality monitoring stations (February, 2023) being monitored by the Board is given as Annexure-7 (c).

**XIV. Ground water regulation:**

1. So far no such cases of illegal groundwater abstraction are noticed.
2. Govt. of Odisha has formulated an act for regulation of groundwater namely “The Odisha Groundwater (Regulation, Development and Management) Act, 2011”
3. Central Ground Water Board (CGWB) and District Level Evaluation Committee(DLEC) strictly control the groundwater abstraction by the industries.
4. Chief Engineer and Director, Groundwater Development, Bhubaneswar monitors the fluctuation of the groundwater level in all 30 districts in 10 years interval.

**XV. Good irrigation practices being adopted by the State:**

Inflow from the catchment and outflow from the river of the basins are managed effectively by the Chief Engineer and Basin Managers for 11 Nos. of river basins of Odisha.

**XVI. Rain Water Harvesting:****Rooftop Rainwater-harvesting Structures (RRHS)**

|                                 | <b><u>Govt.</u></b> |           | <b><u>Private</u></b>                  |           |
|---------------------------------|---------------------|-----------|----------------------------------------|-----------|
| 2018-19                         | 358 Nos.            |           | 9438 Nos. (in 11 towns of 9 districts) |           |
| 2019-20                         | Nil                 |           | Nil                                    |           |
| 2020-21                         | Nil                 |           | Nil                                    |           |
| 2021-22                         | Nil                 |           | Nil                                    |           |
| 2022-23<br>(Upto February,2023) | Taken up            | Completed | Taken up                               | Completed |
|                                 | 300                 | 108       | 5500                                   | 1685      |

**XVII. Ground Water Recharge**

|      |                                                   |              |                                                                                    |
|------|---------------------------------------------------|--------------|------------------------------------------------------------------------------------|
| (i)  | Through Wells (Recharge shaft on tanks and ponds) | 2019-20      | 179 Nos. (completed)                                                               |
|      |                                                   | 2020-21      | 65 nos. (completed)                                                                |
|      |                                                   | 2021-22      | 280 nos. (completed)                                                               |
|      |                                                   | 2022-23      | 822 nos taken up<br>Completed upto 02/2023 : 562 Nos.                              |
| (ii) | Throgh Check Dams                                 | Upto 03/2020 | 15604 Nos. in 30 districts<br>(Completed since inception of the scheme in 2010-11) |
|      |                                                   | Upto 03/2021 | 15833 Nos. (completed)                                                             |
|      |                                                   | Upto 03/2022 | 15867 Nos. (completed)                                                             |
|      |                                                   | Upto 02/2023 | 15868 Nos (completed)                                                              |

**XVII. Demarcation of Floodplain and removal of illegal encroachments:**

Out of 9 Nos. of polluted river stretches, in Gangua nallah (Priority No.-1), a proposal for construction of across regulator at the off taking point of Gangua nalla has been approved in 128<sup>th</sup> TAC of DOWR to divert the flood discharge of Chandaka catchment to Kuakhai river (Approximately 30% of flood water) through Budhi nallah in order to save the urban flooding of storm water in Bhubaneswar city. This is one of the flood plain zone protection work in Gangua nallah to be executed by DOWR. The work is under progress.

When encroachments are noticed the Revenue Authorities are moved to make the land free from encroachment to maintain the natural flow in the drain.

**XVII. Maintaining minimum e-flow of river:**

E-flow is maintained.

Watershed management – Integrated Watershed Management Programme is executed throughout the State by Odisha Watershed Development Mission.

**XIX. Setting up of biodiversity Parks, Greenery/ Plantation activities along the rivers:**

1094699 numbers of saplings and seedlings have been planted during monsoon 2018 along the bank of the rivers, dam sites, barrage sites and canal sites, out of which 329962 nos, of plants are alive (30.14% survival status).

## XX. Development of biodiversity park:

Setting up of Bio-diversity parks will be taken up with the help of Forest and Environment Department.

(Information received for Item No. XIV to XX from Dept. of Water Resources, Govt. of Odisha has been attached as Annexure-8 and Annexure-9)

## XXI. Reuse of Treated Water:

All Water polluting industries are being regulated under the consent administration of the Board. 806 MLD treated industrial wastewater are being recycled/ reused in the process or being utilized for plantation/ irrigation purposes.

For reuse of treated domestic wastewater, bulk users have been identified. Consultation process is underway with respective ULBs, local Industries, Govt and Private institutions for identifying the bulk users of water and the quantity of water demand by these users. After completion of the above process, revised action plan will be submitted for utilization of treated wastewater presently generated from the functioning of the STPs as well as from the future STPs.

(Information received from Orissa Water Supply and Sewerage Board have been attached as Annexure-10)

## XXII Model River being adopted by the State & Action Proposed for achieving the bathing quality standards:

As per the report published by CPCB, "Polluted river stretches for restoration of Water Quality-2022" there are seven polluted river stretches in the State as follows based on the maximum BOD value observed during the year 2019 and 2021 (2020 not considered due to pandemic).

| Priority category during 2022 |         |                                   |
|-------------------------------|---------|-----------------------------------|
| Priority                      | Numbers | Name of Polluted River Stretch    |
| Priority- I                   | 1       | • Gangua nallah along Bhubaneswar |
| Priority-IV                   | 3       | • Daya along Narankheta to Kanas  |
|                               |         | • Kuakhai along Bhubaneswar       |
|                               |         | • Mangala along Golasahi          |
| Priority-V                    | 3       | • Kathajodi along Cuttack         |
|                               |         | • Serua along Sankhatrasa         |
|                               |         | • Brahmani along Rourkela         |

However, As per BOD, maximum during February,2023, river water quality status as given in Annexure-7(b), number of priority-wise polluted river stretches is :

Priority-I: Nil,  
Priority-II: Nil,  
Priority-III: One,  
Priority-IV: One,  
Priority-V: Four.

Rest 13 stretches are under Clean Category conforming to bathing water quality and therefore delisted by CPCB from the list of 19 Polluted River stretches.

**As per the information received from Odisha Water Supply and Sewerage Board, Cuttack stretch on Kathajodi river has been considered under “ at least one polluted river stretch in each category is restored”. CPCB approved Action plan for the Polluted river stretch of Kathajodi river and Serua river along Cuttack stretch vide letter No. may be downloaded from the weblink (<https://www.rrcodisha.org/wp-content/uploads/2020/08/Action-pLan-for-Kathajodi-river-JULY-20.pdf>).**

**(Information received from Orissa Water Supply and Sewerage Board has been attached as Annexure-11)**

**Action taken by Odisha Government for restoration of the polluted river stretch of river Kathajodi and present status of water quality of Kathajodi river is enclosed at Annexure-12.**

**XXIII. Status of Preparation of Action Plan by the 13 Coastal States:**

**State Pollution Control Board, Odisha has submitted the “Draft Action Plan to control marine pollution in 480 Km coastline in Odisha” to CPCB through email on Dt. 10.06.2022 for views. Board has received comment from CPCB vide letter No. 4887 dated 03.10.2022 on the draft Action Plan. Board has sent reminders to the different stakeholders to submit the compliances on the comments of the CPCB on draft action plan. The compiled report will be sent soon after the receipt of compliances from the stakeholders.**

**XXIV. Regulation of Mining Activities in the State/UT: Enclosed as Annexure-13.**

**XXV. Action against identified polluters, law violators and officers responsible for failure for vigorous monitoring :**

- As per the frequency of inspection norms vide Office Order No. 1081 dated 31.01.2020, ETPs of 71 numbers of Industries have been inspected for compliance status during February, 2023. Out of these, 62 numbers of ETPs comply to the discharge norms.
  - Wherever violation is observed, show cause notices are being issued to the industries. Closure direction has been issued to 40 number of units for not having ETPs.
- During February, 2023, for non-compliance of ETP discharge norms, Show Cause Notice have been issued to 9 number of industries.

**XXVI. In compliance to the Grievance redressal portal of National Mission for Clean Ganga in the on-going NGT matter of OA 673 of 2018 (vide NMCG letter In Legal/OA673/2018/NMCG/2019 dated 08.01.2021, there is no grievance for the state of Odisha in the month of February,2023. Extract of the Grievance report for the period 01.02.2023 to 31.02.2023 downloaded from the portal is given as Annexure-14.**



Government of Odisha

Housing & Urban Development Department

3rd floor, Kharavel Bhavan, Unit-V, Bhubaneswar, PIN:751001

File No.: HUD-SANT-CASEOP-0003-2020 Letter No.: 6520 Date: 22.03.2023

From

Dinabandhu Nayak,  
Deputy Secretary to Government

To

The Member Secretary,  
State Pollution Control Board, Odisha, Bhubaneswar  
[Email: paribesh1@ospcboard.org , urpatnaik@ospcboard.org]

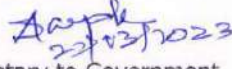
Sub: Submission of Monthly Progress Report for February, 2023 in prescribed format in compliance to Order Dated 06.12.2019 of the Hon'ble NGT passed in O.A. No. 673/2018

Ref : Your Letter No. 10262 Dated 19.10.2020

Sir,

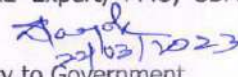
I am directed to send herewith the Monthly Progress Report [MPR] for the month of February, 2023 in the revised format for onward transmission to the Central Pollution Control Board (CPCB), New Delhi and Secretary, Ministry of Jal Shakti in compliance to Order Dated 06.12.2019 of the Hon'ble NGT passed in O.A. No. 673/2018.

Yours faithfully,

  
Deputy Secretary to Government

Memo No. 6521 /HUD, Date: 22.03.2023

Copy along with copy of the enclosures forwarded to the Director, Environment, Forest & Environment Department/ Engineer-in-Chief, OWSSB / Managing Director, WATCO / Team Leader, TSU-FSSM/ M&E Expert, PMU, SBM (Urban) for information & necessary action.

  
Deputy Secretary to Government

## **MPR FOR THE MONTH OF FEBRUARY-2023**

### **V. Solid Waste Management:**

- Total number of Urban Local Bodies and their Population
- Total number of Urban Local Bodies:115
- Population: 60,69,229(as per 2011 census)
- Current Municipal Solid Waste Generation: 2,267 TPD
- Number, installed capacity and utilization of existing MSW processing facilities in TPD (bifurcated by type of processing eg- Waste to Energy (Tonnage and Power Output), Compost Plants (Windrow, Vermi, decentralized pit composting), bio-methanation, MRF etc.

#### **Existing MSW processing facilities (Functional):**

| Type of Processing Facility                                                        | Numbers | Installed Capacity<br>(in TPD) | Utilization |
|------------------------------------------------------------------------------------|---------|--------------------------------|-------------|
| Compost Plant – Micro Composting Centre (MCC) & 1(One) Mechanical Composting Plant | 251     | 1,182.5                        | 84%         |
| Materials Recovery Facility (MRF)                                                  | 216     | 2,220                          | 46%         |

- Action plan to bridge gap between Installed Capacity and Current Utilization of processing facilities (if Gap > 20%):
  - ✓ Material Recovery Facilities are designed for a higher capacity considering population forecast, optimal utilization of resources and to take care of the additional loads of dry waste from urban-rural convergence. Therefore, presently the processing facilities run at lesser capacity.
- No. and capacity of C&D waste processing plants in TPD (existing, proposed and under construction)
  - ✓ All 114 ULBs have designated sites for storage of Construction & Demolition waste. 126 numbers of such sites across all ULBs of Odisha have been notified for wider circulation amongst public. Further, the C&D waste is used for construction of road subgrade, temporary pathways, raising the low-lying areas, etc. thereby offsetting the use of soil for all these purposes.
- Total no. of wards, having door to door collection service, no. of wards practicing segregation at source

| Total No. of Wards | No. of Wards Having Door-to-Door Collection Service | No. of Wards Practicing Source Segregation |
|--------------------|-----------------------------------------------------|--------------------------------------------|
| 2055               | 2035 (99%)                                          | 2035 (99%)                                 |

- Details of MSW treatment facilities proposed and under construction (no., capacity, and technology)

#### **MSW processing facilities Proposed (Target):**

- ✓ Composting Facility - Micro Composting Center (MCC): 278 Nos. (Capacity:1,296 TPD)
- ✓ Material Recovery Facilities (MRF): 223 Nos. (Capacity:2,290 TPD)

#### **MSW processing facilities Functional:**

- ✓ Composting Facility - Number of Functional Compost Plants: 251 Nos. (Capacity: 1,182.5 TPD)
- ✓ Number of Functional Material Recovery Facilities (MRF): 216 Nos. (Capacity: 2,220 TPD)

#### **MSW processing facilities Under Construction/To be functional**

- ✓ Composting Facility - Micro Composting Centers (MCC): 27 Nos. (Capacity: 113.5 TPD)
- ✓ Material Recovery Facilities (MRF): 7 Nos. (Capacity: 70 TPD)

- No. and area (in acres) of uncontrolled garbage dumpsites and Sanitary Landfills.
  - ✓ Garbage dumpsites: 76 numbers (371 Acre approx.)
  - ✓ Sanitary Landfill: Nil
- No. and area (in acres) of legacy waste within 1 km buffer of both side of the rivers: Nil
- No. of drains falling into rivers and no. of drains having floating racks/screens installed to prevent solid waste from falling into the rivers:
  - ✓ No. of drains reaching to River System, lakes, Water Bodies, Pond, Marsh Land, Water Lands: 225
  - ✓ Drains having floating racks/screens installed: 225

#### **Financial Implication**

| Financial Year | Budgetary Provision (Rupees in Crore) |
|----------------|---------------------------------------|
| 2019-20        | 90.00                                 |
| 2020-21        | 400.00                                |
| 2021-22        | 215.00                                |
| 2022-23        | 250.00                                |

#### **Status of ULB wise Management of Solid Waste**

#### **VIII. Plastic Waste Management:**

- Total Plastic Waste generation: 136 TPD
- Treatment/ Measures adopted for reduction or management of plastic waste:
  - ✓ The trade, manufacture, import, store, carry, transport and use of single use plastic and plastic carry bags are prohibited within the jurisdiction of all ULBs
  - ✓ The segregated and stored plastic waste at Materials Recovery Facilities are sold off to registered plastic recyclers for further processing and recycling.
  - ✓ Non-Recyclable Plastic Waste are sent to Cement Factory for Co-Processing.

### Status of ULB wise Management of Solid Waste

| Sl. No. | ULB Name           | Total MSW Generation in TPD |        | Total MSW being processed in TPD |        | Capacity of Existing MSW facilities in TPD |     | Utilization Capacity of the existing MSW facilities |      | Capacity of Proposed MSW Facilities in TPD |     | Completion Timeline |
|---------|--------------------|-----------------------------|--------|----------------------------------|--------|--------------------------------------------|-----|-----------------------------------------------------|------|--------------------------------------------|-----|---------------------|
|         |                    | Wet                         | Dry    | Wet                              | Dry    | Wet                                        | Dry | Wet                                                 | Dry  | Wet                                        | Dry |                     |
| 1       | Anandpur (M)       | 8.08                        | 7.4    | 8.08                             | 7.4    | 10                                         | 20  | 81%                                                 | 37%  | 0                                          | 0   |                     |
| 2       | Angul (M)          | 8.84                        | 8.03   | 8.84                             | 8.03   | 12                                         | 30  | 74%                                                 | 27%  | 0                                          | 0   |                     |
| 3       | Asika (NAC)        | 4.2                         | 3.48   | 4.2                              | 3.48   | 10                                         | 20  | 42%                                                 | 17%  | 0                                          | 0   |                     |
| 4       | Athagad (NAC)      | 3                           | 2.71   | 3                                | 2.71   | 3.5                                        | 10  | 86%                                                 | 27%  | 2                                          | 0   | 30-06-2023          |
| 5       | Athmalik (NAC)     | 2.16                        | 2      | 2.16                             | 2      | 5                                          | 10  | 43%                                                 | 20%  | 0                                          | 0   |                     |
| 6       | Attabira NAC       | 2.76                        | 2.67   | 2.76                             | 2.67   | 5                                          | 20  | 55%                                                 | 13%  | 0                                          | 0   |                     |
| 7       | Balangir (M)       | 16.47                       | 15     | 15                               | 15     | 15                                         | 30  | 100%                                                | 50%  | 0                                          | 0   |                     |
| 8       | Balasore (M)       | 20.28                       | 18.26  | 20                               | 18.26  | 20                                         | 40  | 100%                                                | 46%  | 0                                          | 0   |                     |
| 9       | Balimela (NAC)     | 2.03                        | 1.95   | 2.03                             | 1.95   | 4                                          | 10  | 51%                                                 | 20%  | 0                                          | 0   |                     |
| 10      | Balliguda NAC      | 3.37                        | 2.99   | 2                                | 2.99   | 2                                          | 10  | 100%                                                | 30%  | 0                                          | 0   |                     |
| 11      | Balugaon (NAC)     | 3.06                        | 3.02   | 3                                | 3.02   | 3                                          | 10  | 100%                                                | 30%  | 0                                          | 0   |                     |
| 12      | Banki (NAC)        | 3.01                        | 2.86   | 3.01                             | 2.86   | 4                                          | 10  | 75%                                                 | 29%  | 0                                          | 0   |                     |
| 13      | Banpur (NAC)       | 3.08                        | 2.82   | 3                                | 2.82   | 3                                          | 10  | 100%                                                | 28%  | 0                                          | 0   |                     |
| 14      | Barbil (M)         | 11.6                        | 10.68  | 11.6                             | 10.68  | 15                                         | 30  | 77%                                                 | 36%  | 0                                          | 0   |                     |
| 15      | Bargarh (M)        | 15                          | 15.09  | 15                               | 15.09  | 15                                         | 30  | 100%                                                | 50%  | 0                                          | 0   |                     |
| 16      | Barpada (M)        | 22.74                       | 16.65  | 22.74                            | 16.65  | 25                                         | 60  | 91%                                                 | 28%  | 5                                          | 0   | 30-06-2023          |
| 17      | Barpali (NAC)      | 4.24                        | 3.29   | 4.24                             | 3.29   | 6                                          | 20  | 71%                                                 | 16%  | 0                                          | 0   |                     |
| 18      | Basudebpur (M)     | 6.66                        | 5.7    | 6.66                             | 5.7    | 10                                         | 10  | 67%                                                 | 57%  | 0                                          | 0   |                     |
| 19      | Bellaguntha (NAC)  | 1.97                        | 1.84   | 1.97                             | 1.84   | 5                                          | 10  | 39%                                                 | 18%  | 0                                          | 0   |                     |
| 20      | Belpahar (M)       | 6.5                         | 6.37   | 5                                | 6.37   | 5                                          | 10  | 100%                                                | 64%  | 0                                          | 0   |                     |
| 21      | Berhampur (MC)     | 78                          | 68     | 78                               | 68     | 81                                         | 70  | 96%                                                 | 97%  | 0                                          | 0   |                     |
| 22      | Bhadrak (M)        | 18.36                       | 17.44  | 8                                | 17.44  | 8                                          | 20  | 100%                                                | 87%  | 0                                          | 0   |                     |
| 23      | Bhanjanagar NAC    | 3.61                        | 3.21   | 3.61                             | 3.21   | 5                                          | 10  | 72%                                                 | 32%  | 0                                          | 0   |                     |
| 24      | Bhawanipatna (M)   | 11.78                       | 11.19  | 10                               | 11.19  | 10                                         | 30  | 100%                                                | 37%  | 4                                          | 0   | 30-06-2023          |
| 25      | Bhuban (NAC)       | 3.99                        | 3.76   | 3.99                             | 3.76   | 6                                          | 20  | 67%                                                 | 19%  | 0                                          | 0   |                     |
| 26      | Bhubaneswar (MC)   | 194.52                      | 190.07 | 170                              | 190.07 | 170                                        | 200 | 100%                                                | 95%  | 40                                         | 40  | 30-06-2023          |
| 27      | Bijepur (NAC)      | 2.05                        | 1.95   | 2                                | 1.95   | 2                                          | 20  | 100%                                                | 10%  | 0                                          | 0   |                     |
| 28      | Binika (NAC)       | 2.83                        | 2.68   | 2.83                             | 2.68   | 3                                          | 10  | 94%                                                 | 27%  | 0                                          | 0   |                     |
| 29      | Biramitrapur (M)   | 5.71                        | 5.46   | 5                                | 5.46   | 5                                          | 10  | 100%                                                | 55%  | 0                                          | 0   |                     |
| 30      | Boudhgarh (NAC)    | 3.45                        | 3.23   | 3.45                             | 3.23   | 5                                          | 10  | 69%                                                 | 32%  | 0                                          | 0   |                     |
| 31      | Brajarajapur (M)   | 13.38                       | 12.61  | 10                               | 12.61  | 10                                         | 20  | 100%                                                | 63%  | 0                                          | 0   |                     |
| 32      | Buguda (NAC)       | 2.71                        | 2.58   | 2.71                             | 2.58   | 5                                          | 10  | 54%                                                 | 26%  | 0                                          | 0   |                     |
| 33      | Bysanagar (M)      | 8.11                        | 7.95   | 8.11                             | 7.95   | 10                                         | 20  | 81%                                                 | 40%  | 0                                          | 0   |                     |
| 34      | Champur NAC        | 3.05                        | 2.84   | 3.05                             | 2.84   | 5                                          | 10  | 61%                                                 | 28%  | 0                                          | 0   |                     |
| 35      | Chandbali (NAC)    | 4.78                        | 4.34   | 4.5                              | 4.34   | 4.5                                        | 30  | 100%                                                | 14%  | 0                                          | 0   |                     |
| 36      | Chhatrapur (NAC)   | 3.66                        | 3.56   | 3.66                             | 3.56   | 15                                         | 30  | 24%                                                 | 12%  | 0                                          | 0   |                     |
| 37      | Chikiti (NAC)      | 2.08                        | 1.8    | 2.08                             | 1.8    | 5                                          | 10  | 42%                                                 | 18%  | 0                                          | 0   |                     |
| 38      | Choudwar (M)       | 7.46                        | 6.77   | 6                                | 6.77   | 6                                          | 30  | 100%                                                | 23%  | 0                                          | 0   |                     |
| 39      | Cuttack (MC)       | 119.74                      | 141.12 | 60                               | 70     | 60                                         | 70  | 100%                                                | 100% | 20                                         | 10  | 30-06-2023          |
| 40      | Daspalla NAC       | 3.28                        | 2.92   | 3.28                             | 2.92   | 5                                          | 10  | 66%                                                 | 29%  | 0                                          | 0   |                     |
| 41      | Deogarh (M)        | 3.82                        | 3.8    | 3.82                             | 3.8    | 5                                          | 10  | 76%                                                 | 38%  | 0                                          | 0   |                     |
| 42      | Dhamnagar (NAC)    | 3.96                        | 3.67   | 3.96                             | 3.67   | 4                                          | 10  | 99%                                                 | 37%  | 0                                          | 0   |                     |
| 43      | Dharmagarh NAC     | 2.96                        | 2.95   | 2.96                             | 2.95   | 3                                          | 10  | 99%                                                 | 30%  | 0                                          | 0   |                     |
| 44      | Dhenkanal (M)      | 12                          | 10.52  | 12                               | 10.52  | 13.5                                       | 30  | 89%                                                 | 35%  | 0                                          | 0   |                     |
| 45      | Digapahandi (NAC)  | 2.53                        | 2.43   | 2.53                             | 2.43   | 5                                          | 10  | 51%                                                 | 24%  | 0                                          | 0   |                     |
| 46      | G. Udayagiri (NAC) | 2.16                        | 2.12   | 2.16                             | 2.12   | 3                                          | 10  | 72%                                                 | 21%  | 0                                          | 0   |                     |
| 47      | Ganjam (NAC)       | 2.17                        | 2.02   | 2.17                             | 2.02   | 5                                          | 10  | 43%                                                 | 20%  | 0                                          | 0   |                     |
| 48      | Gopalpur (NAC)     | 1.37                        | 1.34   | 1.37                             | 1.34   | 5                                          | 10  | 27%                                                 | 13%  | 0                                          | 0   |                     |
| 49      | Gudari (NAC)       | 1.2                         | 1.31   | 1.2                              | 1.31   | 2                                          | 10  | 60%                                                 | 13%  | 0                                          | 0   |                     |
| 50      | Gunupur (M)        | 4.96                        | 4.61   | 4.96                             | 4.61   | 10                                         | 10  | 50%                                                 | 46%  | 0                                          | 0   |                     |
| 51      | Hindol NAC         | 3.5                         | 2.78   | 2                                | 2.78   | 2                                          | 10  | 100%                                                | 28%  | 0                                          | 0   |                     |
| 52      | Hinjilicut (M)     | 4.19                        | 4.74   | 4.19                             | 4.74   | 10                                         | 20  | 42%                                                 | 24%  | 0                                          | 0   |                     |
| 53      | Jagatsinghpur (M)  | 5.82                        | 5.35   | 5                                | 5.35   | 5                                          | 10  | 100%                                                | 54%  | 0                                          | 0   |                     |
| 54      | Jajpur (M)         | 6.49                        | 6      | 6.49                             | 6      | 10                                         | 20  | 65%                                                 | 30%  | 0                                          | 0   |                     |
| 55      | Jaleshwar (M)      | 4.31                        | 4.11   | 4.31                             | 4.11   | 5                                          | 10  | 86%                                                 | 41%  | 0                                          | 0   |                     |
| 56      | Jatani (M)         | 9.48                        | 8.65   | 9.48                             | 8.65   | 10                                         | 10  | 95%                                                 | 87%  | 0                                          | 0   |                     |
| 57      | Jeypore (M)        | 16.91                       | 13.41  | 16.91                            | 13.41  | 20                                         | 30  | 85%                                                 | 45%  | 0                                          | 0   |                     |
| 58      | Jharsuguda (M)     | 16.84                       | 15.38  | 10                               | 15.38  | 10                                         | 20  | 100%                                                | 77%  | 5                                          | 0   | 30-06-2023          |

| Sl. No. | ULB Name            | Total MSW Generation in TPD |       | Total MSW being processed in TPD |       | Capacity of Existing MSW facilities in TPD |       | Utilization Capacity of the existing MSW facilities |     | Capacity of Proposed MSW Facilities in TPD |     | Completion Timeline |
|---------|---------------------|-----------------------------|-------|----------------------------------|-------|--------------------------------------------|-------|-----------------------------------------------------|-----|--------------------------------------------|-----|---------------------|
|         |                     | Wet                         | Dry   | Wet                              | Dry   | Wet                                        | Dry   | Wet                                                 | Dry | Wet                                        | Dry |                     |
| 59      | Joda (M)            | 8.5                         | 7.2   | 8.5                              | 7.2   | 10                                         | 20    | 85%                                                 | 36% | 0                                          | 0   |                     |
| 60      | Junagarh (NAC)      | 3.42                        | 3.28  | 3.42                             | 3.28  | 5                                          | 10    | 68%                                                 | 33% | 0                                          | 0   |                     |
| 61      | Kabisurjanagar (N)  | 2.98                        | 2.83  | 2.98                             | 2.83  | 5                                          | 10    | 60%                                                 | 28% | 0                                          | 0   |                     |
| 62      | Kamakshyanagar (N)  | 3                           | 3     | 3                                | 3     | 3                                          | 10    | 100%                                                | 30% | 0                                          | 0   |                     |
| 63      | Kantabanji (NAC)    | 3.74                        | 3.67  | 3.74                             | 3.67  | 5                                          | 10    | 75%                                                 | 37% | 0                                          | 0   |                     |
| 64      | Karanja (NAC)       | 3.85                        | 3.68  | 3.85                             | 3.68  | 6                                          | 20    | 64%                                                 | 18% | 0                                          | 0   |                     |
| 65      | Kashinagar (NAC)    | 1.78                        | 1.7   | 1.78                             | 1.7   | 3                                          | 10    | 59%                                                 | 17% | 3                                          | 0   | 30-06-2023          |
| 66      | Kendrapara (M)      | 7.98                        | 7.68  | 7.98                             | 7.68  | 8                                          | 20    | 100%                                                | 38% | 0                                          | 0   |                     |
| 67      | Keonjhar (M)        | 11.97                       | 9.8   | 11.97                            | 9.8   | 15                                         | 20    | 80%                                                 | 49% | 0                                          | 0   |                     |
| 68      | Kesinga (NAC)       | 3.29                        | 3.01  | 3.29                             | 3.01  | 5                                          | 10    | 66%                                                 | 30% | 0                                          | 0   |                     |
| 69      | Khalikote (NAC)     | 2.25                        | 2.16  | 2.25                             | 2.16  | 5                                          | 10    | 45%                                                 | 22% | 0                                          | 0   |                     |
| 70      | Khandapada (NAC)    | 1.63                        | 1.53  | 1.63                             | 1.53  | 5                                          | 10    | 33%                                                 | 15% | 0                                          | 0   |                     |
| 71      | Khariar (NAC)       | 2.67                        | 2.51  | 2.67                             | 2.51  | 3                                          | 10    | 89%                                                 | 25% | 0                                          | 0   |                     |
| 72      | Khariar Road (NAC)  | 3.27                        | 3.15  | 3                                | 3.15  | 3                                          | 10    | 100%                                                | 32% | 0                                          | 0   |                     |
| 73      | Khordha (M)         | 8.02                        | 7.52  | 5                                | 7.52  | 5                                          | 10    | 100%                                                | 75% | 5                                          | 0   | 30-06-2023          |
| 74      | Kodala (NAC)        | 2.46                        | 2.22  | 2.46                             | 2.22  | 5                                          | 10    | 49%                                                 | 22% | 0                                          | 0   |                     |
| 75      | Konark (NAC)        | 3                           | 3.03  | 3                                | 3.03  | 3                                          | 20    | 100%                                                | 15% | 2                                          | 10  | 30-06-2023          |
| 76      | Koraput (M)         | 7.89                        | 7.48  | 7.89                             | 7.48  | 10                                         | 20    | 79%                                                 | 37% | 0                                          | 0   |                     |
| 77      | Kotpad (NAC)        | 2.88                        | 2.6   | 2.88                             | 2.6   | 10                                         | 20    | 29%                                                 | 13% | 0                                          | 0   |                     |
| 78      | Kuchinda (NAC)      | 3.03                        | 2.54  | 3                                | 2.54  | 3                                          | 10    | 100%                                                | 25% | 0                                          | 0   |                     |
| 79      | Malkangiri (M)      | 5.43                        | 5.71  | 5.43                             | 5.71  | 8                                          | 10    | 68%                                                 | 57% | 0                                          | 0   |                     |
| 80      | Nabarangapur (M)    | 4.93                        | 4.71  | 4.93                             | 4.71  | 5                                          | 10    | 99%                                                 | 47% | 0                                          | 0   |                     |
| 81      | Nayagarh (M)        | 3.29                        | 3.25  | 3.29                             | 3.25  | 5                                          | 10    | 66%                                                 | 33% | 0                                          | 0   |                     |
| 82      | Nilagiri (NAC)      | 3.46                        | 2.83  | 3.46                             | 2.83  | 4                                          | 10    | 87%                                                 | 28% | 0                                          | 0   |                     |
| 83      | Nimapara (NAC)      | 3.34                        | 3.17  | 2                                | 3.17  | 2                                          | 10    | 100%                                                | 32% | 3                                          | 0   | 30-06-2023          |
| 84      | Nuapada NAC         | 2.93                        | 2.77  | 2.93                             | 2.77  | 5                                          | 10    | 59%                                                 | 28% | 0                                          | 0   |                     |
| 85      | Odagaon (NAC)       | 2.1                         | 2.06  | 2.1                              | 2.06  | 5                                          | 10    | 42%                                                 | 21% | 0                                          | 0   |                     |
| 86      | Padmapur NAC        | 3.11                        | 3     | 3.11                             | 3     | 6                                          | 30    | 52%                                                 | 10% | 0                                          | 0   |                     |
| 87      | Paradeep (M)        | 11.27                       | 10.54 | 11.27                            | 10.54 | 12                                         | 20    | 94%                                                 | 53% | 0                                          | 0   |                     |
| 88      | Paralakhemundi (M)  | 9.16                        | 7.19  | 9.16                             | 7.19  | 11                                         | 20    | 83%                                                 | 36% | 0                                          | 0   |                     |
| 89      | Patnagarh (NAC)     | 3.69                        | 3.44  | 3.69                             | 3.44  | 5                                          | 10    | 74%                                                 | 34% | 0                                          | 0   |                     |
| 90      | Pattamundai (M)     | 6.75                        | 5.97  | 6.75                             | 5.97  | 10                                         | 20    | 68%                                                 | 30% | 0                                          | 0   |                     |
| 91      | Phulabani (M)       | 6.43                        | 5.91  | 6.43                             | 5.91  | 8                                          | 20    | 80%                                                 | 30% | 0                                          | 0   |                     |
| 92      | Pipli (NAC)         | 2.96                        | 2.92  | 2.96                             | 2.92  | 3                                          | 10    | 99%                                                 | 29% | 0                                          | 0   |                     |
| 93      | Polasara (NAC)      | 4.06                        | 3.76  | 4.06                             | 3.76  | 5                                          | 10    | 81%                                                 | 38% | 0                                          | 0   |                     |
| 94      | Puri (M)            | 35                          | 32.2  | 35                               | 32.2  | 45                                         | 60    | 78%                                                 | 54% | 5                                          | 0   | 30-06-2023          |
| 95      | Purusottampur (NAC) | 2.77                        | 2.59  | 2.77                             | 2.59  | 5                                          | 10    | 55%                                                 | 26% | 0                                          | 0   |                     |
| 96      | Rairangpur (M)      | 4.45                        | 4.29  | 4.45                             | 4.29  | 10                                         | 20    | 45%                                                 | 21% | 0                                          | 0   |                     |
| 97      | Rajagangapur (M)    | 8.8                         | 8.41  | 5                                | 8.41  | 5                                          | 10    | 100%                                                | 84% | 5                                          | 0   | 30-06-2023          |
| 98      | Rambha (NAC)        | 2.35                        | 2.35  | 2.35                             | 2.35  | 5                                          | 10    | 47%                                                 | 24% | 0                                          | 0   |                     |
| 99      | RANPUR NAC          | 2.54                        | 2.44  | 2.54                             | 2.44  | 3                                          | 10    | 85%                                                 | 24% | 0                                          | 0   |                     |
| 100     | Raurkela (MC)       | 59.89                       | 55.58 | 40                               | 55.58 | 40                                         | 80    | 100%                                                | 69% | 0                                          | 0   |                     |
| 101     | Rayagada (M)        | 11.71                       | 11.18 | 11.71                            | 11.18 | 15                                         | 20    | 78%                                                 | 56% | 0                                          | 0   |                     |
| 102     | Redhakhol (NAC)     | 2.74                        | 2.56  | 2.74                             | 2.56  | 3                                          | 10    | 91%                                                 | 26% | 0                                          | 0   |                     |
| 103     | Remuna (NAC)        | 5.48                        | 5.23  | 0                                | 0     | 0                                          | 0     | 0%                                                  | 0%  | 0                                          | 0   |                     |
| 104     | Sambalpur (MC)      | 66.64                       | 61.96 | 45                               | 61.96 | 45                                         | 80    | 100%                                                | 77% | 10                                         | 10  | 30-06-2023          |
| 105     | Sonepur (M)         | 4.03                        | 3.84  | 4.03                             | 3.84  | 5                                          | 10    | 81%                                                 | 38% | 0                                          | 0   |                     |
| 106     | Soro (M)            | 5.59                        | 5.07  | 5                                | 5.07  | 5                                          | 10    | 100%                                                | 51% | 0                                          | 0   |                     |
| 107     | Sunabeda (M)        | 8.28                        | 8.01  | 8.28                             | 8.01  | 10                                         | 20    | 83%                                                 | 40% | 0                                          | 0   |                     |
| 108     | Sundargarh (M)      | 7.78                        | 7.01  | 7.78                             | 7.01  | 10                                         | 20    | 78%                                                 | 35% | 5                                          | 0   | 30-06-2023          |
| 109     | Surada (NAC)        | 2.58                        | 2.43  | 2.58                             | 2.43  | 5                                          | 10    | 52%                                                 | 24% | 0                                          | 0   |                     |
| 110     | Talcher (M)         | 7.5                         | 6.64  | 7.5                              | 6.64  | 10                                         | 20    | 75%                                                 | 33% | 0                                          | 0   |                     |
| 111     | Tarbha (NAC)        | 1.7                         | 1.52  | 1.7                              | 1.52  | 5                                          | 10    | 34%                                                 | 15% | 0                                          | 0   |                     |
| 112     | Titilagarh (M)      | 5.5                         | 5     | 5                                | 5     | 5                                          | 10    | 100%                                                | 50% | 0                                          | 0   |                     |
| 113     | Tusura NAC          | 2                           | 1.78  | 2                                | 1.78  | 5                                          | 10    | 40%                                                 | 18% | 0                                          | 0   |                     |
| 114     | Udala (NAC)         | 2.29                        | 2.22  | 2.29                             | 2.22  | 5                                          | 10    | 46%                                                 | 22% | 0                                          | 0   |                     |
| 115     | Umerkote (M)        | 4.84                        | 4.68  | 4.84                             | 4.68  | 5                                          | 10    | 97%                                                 | 47% | 0                                          | 0   |                     |
| Total:  |                     | 1,161                       | 1,106 | 988                              | 1,030 | 1,182.5                                    | 2,220 | 84%                                                 | 46% | 114                                        | 70  |                     |

**National Mission for Clean Ganga**  
**Monthly Progress Report for the month of February, 2023 for the State of Odisha**  
**[Format for submission of monthly progress report in compliance to order dated**  
**06.12.2019 in OA No. 673 of 2018 before the Hon'ble NGT]**

**Overall status of the State:**

**I. Total Population : Urban Population & Rural Population separately**

As per census 2011,

Total population of Odisha is : 4,19,74,218

Urban population is : 70,03,656

Rural population is : 3,49,70,562

**II. Estimated Sewage Generation (MLD):**

Sewage generation in the State :

Based on total water supply to 115 ULBs of the state which is approximately 1100 MLD, wastewater generation has been calculated as 80% of the water supply which comes around 880 MLD.

However, considering that 41% of the population is concentrated around five large cities, Odisha has gone for underground sewer systems for only five large cities (Bhubaneswar, Cuttack, Sambalpur, Rourkela, Puri) and another town, Talcher.

Total Wastewater generation from these six ULBs is 302.01 MLD. [1. Bhubaneswar Municipal Corporation (114.97 MLD), 2. Cuttack Municipal Corporation (82.54 MLD), 3. Sambalpur Municipal Corporation (43.51 MLD), 4. Rourkela Municipal Corporation (35.65 MLD), 5. Puri(M) (20.05 MLD) and Talcher(M) (5.29 MLD)].

**III. Details of Sewage Treatment Plant**

- Existing No. of STPs and Treatment Capacity (in MLD) : 13 STPs : 375.50 MLD
- STP under construction : Nil
- Total number of STPs and Treatment Capacity (in MLD) : 13 STPs : 375.50 MLD
- Capacity Utilization of Existing STPs : 133.49 MLD
- Sewage being treated through alternative technology: [Faecal Sludge Treatment Plant]
- Existing number of FSTPs and Treatment Capacity : 110 FSTPs : 1917 KLD (1.917 MLD)
- FSTPs under construction : 9 FSTPs : 140 KLD (0.14 MLD)
- Total number of FSTPs and Treatment Capacity : 119 STPs : 2057.00 KLD (2.057 MLD)
  - i) Total wastewater generated in the state : 880 MLD
  - ii) Capacity for treatment through 13 STPs : 375.50 MLD
  - iii) Capacity for treatment through 13 STPs and 119 FSTPs : 377.56 MLD
  - iv) Balance wastewater to be treated [(i)-(iii)] : 502.44 MLD  
Through Grey Water Management System  
(Now under piloting stage)

- Time frame for completion of balance 9 nos. SeTPs out of total 119 nos. – June 2023

1) Dharamgarh (10 KLD), 2). Belaguntha (10 KLD), 3) Koraput (20 KLD), 4. Banapur (10 KLD), 5) Balugaon (10 KLD), 6) Burla (20 KLD), 7) Hirakud (20 KLD). 8) Jajpur(20 KLD)(at revised location) 9) Remuna(20 KLD).

- Gap in Treatment Capacity in MLD :

Total quantity of sewage generation from Bhubaneswar, Cuttack, Sambalpur, Rourkela, Puri and Talcher is 302.01 MLD. Sewage treatment facility at various stages of operationalization for these six ULBs areas = 13 Nos. of STPs with total installed capacity : 375.50 MLD.

For the rest of 109 ULBs, the State has embarked on decentralized non sewerage approach for treating black water and greywater separately. The approach has been divided into two phases. First phase focused on achieving completing black water security through Faecal sludge & Septage Management. Next phase is focusing on treatment of greywater by pilot intervention in two ULBs at Jatni and Dhenkanal. Based on the learning from the pilot projects, the greywater management will be scaled up in all 110 ULBs, except Puri, Bhubaneswar, Cuttack, Sambalpur & Rourkela where STP construction either completed or under progress.

- No. of Operational STPs : 12 STPs (1 No. STP at Matagajpur, CTC is under shut down as drainage work is going on under JICA project).
- No. of Complying STPs : 12 STPs
- No. of non-complying STPs : Nil
- No. of under construction STP : Nil

#### Details of each existing STP in the State

| Sl. No. | No. of STPs | Location                       | Existing STP Capacity (in MLD) | Capacity Being Utilized (In MLD) | Operational Status of STP | Compliance Status of STP                                                 |
|---------|-------------|--------------------------------|--------------------------------|----------------------------------|---------------------------|--------------------------------------------------------------------------|
| 1       |             | Bhubaneswar                    |                                |                                  |                           |                                                                          |
|         | 1           | Meherpali                      | 56                             | 14.00                            | O&M by WATCO              | Operational since Dec.2020                                               |
|         | 1           | Basuaghai                      | 28                             | 16.00                            |                           | -do-                                                                     |
|         | 1           | Kochilaput                     | 43.50                          | 10.50                            |                           | -do-                                                                     |
|         | 1           | Paikarapur                     | 8                              | 8                                |                           | -do-                                                                     |
|         | 1           | Rokat                          | 48                             | 8.06                             | JICA                      | Commissioned on 31.12.2022                                               |
| 2       |             | Cuttack                        |                                |                                  |                           |                                                                          |
|         | 1           | Matgajpur (Stabilisation pond) | 33                             | 0                                | -                         | (STP is under shut down as drainage work is going on under JICA project) |

Mission for Clean Ganga of OA No. 673 Feb.-23

|       |    |                   |        |        |                                                                                 |                                                          |
|-------|----|-------------------|--------|--------|---------------------------------------------------------------------------------|----------------------------------------------------------|
|       | 1  | CDA               | 36     | 23.31  | O&M by<br>OISIP, JICA,<br>Cuttack                                               | Running smoothly                                         |
|       | 1  | Matagajpur (ASP)  | 16     | 2.87   | -do-                                                                            | -do-                                                     |
| 3     |    | Puri              |        |        |                                                                                 |                                                          |
|       | 1  | Mangalaghat       | 15     | 15     | O&M by<br>WATCO                                                                 | Running smoothly                                         |
|       | 1  | Bankimuhan,       | 10     | 5.05   |                                                                                 |                                                          |
| 4     | 1  | Talcher, Mandapal | 2      | 2      | O&M by<br>PHEO                                                                  | -do-                                                     |
| 5     | 1  | Rourkela          | 40     | 3.70   | Partly<br>commissioned<br>since Feb-2021<br>(O&M by<br>WATCO from<br>June-2022) | -do-                                                     |
| 6     | 1  | Sambalpur         | 40     | 25     | OWSSB                                                                           | Interception &<br>diversion (I&D) of<br>Dhobijore Nallah |
| Total | 13 |                   | 375.50 | 133.49 |                                                                                 |                                                          |

**Details of partly commissioned/ under construction STPs in the State**

| Sl. No. | No. of STPs | Location        | Capacity of the plant in MLD | Physical Progress in %        | Status of I&D or House sewer connections                                                                                                                            | Completion Timeline                                                      |
|---------|-------------|-----------------|------------------------------|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| 1       | 5           | Bhubaneswar     |                              |                               |                                                                                                                                                                     |                                                                          |
|         |             | Rokat           | 48                           | Commissioned on 31.12.2022    | 37.49% (13495 out of 36000 Nos.)                                                                                                                                    | Network :<br>March 2023,<br>House sewer connection :<br>March, 2023.     |
|         |             | Meherpalli      | 56                           | Commissioned                  | 47.50% (35747 out of 75269)                                                                                                                                         | House Sewer Connections (HSC): Dec.-2022.                                |
|         |             | Basuaghai       | 28                           |                               | 65% (24462 out of 37634)                                                                                                                                            | -do-                                                                     |
|         |             | Kochilaput      | 43.5                         |                               | 43.07% (25187 out of 58468)                                                                                                                                         | March-2023                                                               |
|         |             | Paikarapur      | 8                            |                               | 100% (10753 out of 10753)                                                                                                                                           | Completed.                                                               |
| 2       |             | Cuttack         |                              |                               |                                                                                                                                                                     |                                                                          |
|         | 1           | Matgajpur (ASP) | 16                           | Commissioned since 01.03.2022 | STP is commissioned, house connection is under progress, after completion of all the house connection the wastewater will not be discharged to the river Kathajori. | Sewer Network :<br>March 2023.<br>House Sewer Connection –<br>March-2023 |
|         | 1           | CDA             | 36                           | Commissioned since 27.11.2019 | 40.12 %<br>(17454 out of target of 43500 nos.)                                                                                                                      | House Sewer Connection –<br>March-2023                                   |

Mission for Clean Ganga of OA No. 573 Feb.-23

|   |   |           |    |                                                                                                    |                                          |                                                                       |
|---|---|-----------|----|----------------------------------------------------------------------------------------------------|------------------------------------------|-----------------------------------------------------------------------|
| 3 | 1 | Sambalpur | 40 | STP is commissioned during Dec.2022 and treating around 25 MLD of wastewater from Dhobijore Nallah | (0 out of target of 30635 Nos)           | Network (part): March,2023. House Sewer Connection (Part) – Dec.-2023 |
| 4 | 1 | Rourkela  | 40 | Commissioned since Feb. 2021                                                                       | 1054 out of target of 12000 nos. (8.78%) | Sewer network& House Sewer Connection : Dec.-2022                     |

#### **Details of proposed STPs in the State**

| No.                                                                                                                                                                                                                                                                                                                                                                                                                                               | Location | Capacity of the STP proposed in MLD | Status of Project (at DPR Stage/ Under Tendering/ Work to be Awarded) | Likely Date of Completion |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------------------------------|-----------------------------------------------------------------------|---------------------------|
| Nil                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |                                     |                                                                       |                           |
| Since laying of sewer networks involve huge capital and O&M costs and public inconvenience steps are being taken to cover all cities and towns in the State by setting up Septage Treatment Plants to manage the faecal waste water to reduce environmental pollution. In this process all 115 ULBs of Odisha will be covered, out of which 110 nos. SeTP constructed in 108 ULBs and 9 nos. is under progress which will cover rest 7 nos. ULBs. |          |                                     |                                                                       |                           |

#### **IV Details of Industrial Pollution: Not relates to OWSSB**

- No. of industries in the State: N/A
- No. of water polluting industries in the State: N/A
- Quantity of effluent generated from the industries in MLD:N/A
- Quantity of Hazardous Sludge generated from the Industries in TPD: N/A Number of industrial units having ETPs: N/A
- Number of industrial units connected to CETP: N/A
- Number and total capacity of ETPs (details of existing/ under construction / proposed) :N/A
- Compliance status of the ETPs: N/A
- Number and total capacity of CETPs (details of existing/ under construction / proposed) : N/A
- Status of compliance and operation of the CETPs :N/A

| Town                 | No. of industries | Industrial discharge | Status of ETPs | Status of CETPs (existing, under construction & proposed) |
|----------------------|-------------------|----------------------|----------------|-----------------------------------------------------------|
| Not relates to OWSSB |                   |                      |                |                                                           |

"NGT Matter/ Top Priority"

**GOVERNMENT OF ODISHA**  
**FOREST, ENVIRONMENT & CLIMATE CHANGE DEPARTMENT**

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No. FE-ENV1-ENV-0005-2020/ 4998 / FE&CC, Date. 17 /03/2023

From:

Dr. K. Murugesan, IFS

Director Environment cum Special Secretary to Govt.

To

The Additional Chief Secretary, Water Resources Dept.

The Principal Secretary, Housing and Urban Development Department.

The Principal Secretary, Panchayati Raj &amp; Drinking Water Department

The Principal Secretary, Rural Development Department.

The Principal Secretary, Agriculture and Farmers Empowerment Department

The Principal Secretary, Industries Department

The Principal Secretary, Fishery and ARD Department

The Commissioner Cum Secretary, Health &amp; Family Welfare Dept.

The Director Municipal Administration, Bhubaneswar

The EIC, Odisha Water Supply and Sewerage Board, Satya Nagar, Bhubaneswar

The Member Secretary, State pollution Control Board, Odisha, Bhubaneswar

Sub Minutes of Environment Monitoring Cell (EMC), 8th meeting held on 01.03.2023 at 4.00 PM in the conference Hall of the Chief Secretary in Lok Seva Bhawan, Govt. of Odisha, Bhubaneswar in the matter of O.A. No. 606/2018, Compliance to Solid Waste Management Rules, 2016 and Sewage Management.

Sir,

In inviting a reference to the above mentioned subject, I am directed to enclose, herewith, the minutes of 8th meeting of Environment Monitoring Cell (EMC) held on 01.03.2023 at 4.00 PM under the Chairmanship of Chief Secretary in the conference hall of the Chief Secretary in Lok Seva Bhawan, Govt. of Odisha, Bhubaneswar in connection with the Compliance to Solid Waste Management Rules, 2016 and Sewage Management as per Hon'ble NGT order dated 27.01.2023 in O.A. No. 606/2018.

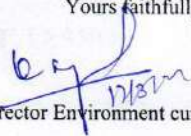


FE-ENV1-ENV-0005-2020/36/2023

It is, therefore, requested to kindly submit the compliance status to the FE & CC Department both in PDF and MS Word file (email: env@1992@gmail.com) for necessary action at this end .

Yours faithfully,

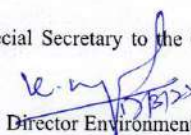
Encl: As above.

  
Director Environment cum  
Special Secretary to Govt.

Memo No 4999 Date, 17.03.23

Copy along with copy of minutes forwarded to the OSD cum Ex Officio Special Secretary to the Chief Secretary, Odisha for kind information of Chief Secretary.

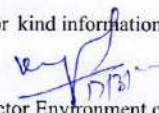
Encl: As above.

  
Director Environment cum  
Special Secretary to Govt.

Memo No 5000 Date, 17.03.23

Copy along with copy of minutes forwarded to Sr. PS to ACS, FE & CC Dept. for kind information of Additional Chief Secretary, FE & CC dept. .

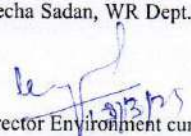
Encl: As above.

  
Director Environment cum  
Special Secretary to Govt.

Memo No 5001 Date, 17.03.23

Copy along with copy of minutes forwarded to Chief Engineer, HH, GIS & CEM, Secha Sadan, WR Dept. / Director Public Health, Heads of Dept. Building, Bhubaneswar for information.

Encl: As above.

  
Director Environment cum  
Special Secretary to Govt.

Memo No 5002 Date, 17.03.23

Copy along with copy of minutes forwarded to Member Secretary, Central Pollution Control Board, Paribesh Bhawan, East Arjun Nagar, Shahdra, Delhi- 110 032 for kind information.

Encl: As above.

  
Director Environment cum  
Special Secretary to Govt.

**Govt. of Odisha**  
**Forest Environment and Climate Change Department**

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**Minutes of 8<sup>th</sup> meeting of Environment Monitoring Cell (EMC) held on 01.03.2023 at 4.00 PM in the Conference Hall of the Chief Secretary in Lok Seva Bhawan, Govt. of Odisha, Bhubaneswar**

The 8<sup>th</sup> meeting of Environment Monitoring Cell (EMC) was held on **01.03.2023** under the Chairmanship of Shri Pradeep Kumar Jena., IAS, Chief Secretary, Odisha to review the matter of compliance on Solid Waste and Sewage Management practice in pursuance of order dt. 27.01.2023 of Hon'ble NGT in O.A. No. 606/2018 and related matters.

The following members were present in the meeting:

- i. Shri G. Mathi Vathanan, IAS, Principal Secretary, Housing & Urban Development Dept.
- ii. Smt. Shalini Pandit, Commissioner-cum-Secretary, Health & Family Welfare Dept.
- iii. Shri B. Parameswaran, IAS, Director, Drinking Water and Sanitation, PR & DW Dept.
- iv. Dr. K. Murugesan, IFS, Director, Environment-cum-Special Secretary, FE & CC Dept.
- v. Dr. Nitnjan Mishra, Director, Public Health, Health & FW Dept.
- vi. Shri Kalyan K. Rath, Special Secretary, H & UD Dept.
- vii. Shri Prashant K. Mohapatra, EIC, OWSSB

The Director, Environment-cum-Special Secretary, Forest Environment & Climate Change Department welcomed the new Chief Secretary and other Members present in the meeting. A power point presentation was made on the compliance made so far to achieve the gap on Solid Waste Management and Sewage Management of the State. It was also apprised that on grey water management, Principal Secretary, H & UD Department had made a presentation on 27.01.2023.

Thereafter, the compliance to the order was discussed to achieve the gap and the decisions taken thereof are given below:

| Sl. No. | Directions of 27.01.2023                                                              | Compliances Presented                                                                                                                                                              | Decisions                                                                                                             |
|---------|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| 1       | <b>O.A. No. 606/2018 and related cases</b><br><br>Compliance of Municipal Solid Waste | It was informed in the meeting that the matter of Municipal Solid Waste and liquid effluent management was adjudicated at Hon'ble Supreme Court of India and directions passed for | Chief Secretary reviewed the position of Solid Waste management in the 115 ULBs and Rural areas in the State and also |



FE-ENV1-ENV-0005-2020/35/2023

|    |                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----|-------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | Management Rules, 2016                                | <p>compliance. The present proceeding before Hon'ble NGT is, therefore, being monitored as per the direction. The time line for compliance of SWM Rules, 2016 under Rule 22 is already over.</p> <p>On dt. 16.01.2019 there was specific directions and the Ex-Chief Secretary had appeared on 26.03.2019 which were being complied.</p> <p>It was intimated to the Members that Hon'ble NGT has appreciated the steps taken by the State for the de-centralised method of management of solid wastes. The report submitted by the Hon'ble Justice, Sri P.K. Mohanty, Retired Judge, Orissa High Court was also intimated and follow up action is being taken.</p> | <p>steps taken in this regard on compliance of directions.</p> <p>The Principal Secretary, H &amp; UD Dept. intimated that representative from the other States will visit shortly and from Arunachal Pradesh intimation has been received as per the observation of Hon'ble NGT.</p> <p>The Chief Secretary suggested for providing protocol for the visitors of other States.</p> <p>The Director Environment –cum-Special Secretary intimated about the successful operation of FSTP including the steps taken by H &amp; UD Department for grey water management.</p> |
| 2. | Specific Compliance on important matters<br>(Para 13) | <p>Establishment of EMC Cells under the Chairmanship of Chief Secretary and Review by the Chief Secretary at State level and review by District Magistrates at the District level.</p> <p>Declaration of three Model towns/cities and 90 villages.</p>                                                                                                                                                                                                                                                                                                                                                                                                             | <p>Already functioning. In EMC meeting it is being reviewed. The District Magistrates are to review the matter.</p> <p>Three Model Cities and Towns are already declared. In all the 30 districts it is to be taken up.</p>                                                                                                                                                                                                                                                                                                                                               |
| 3. | (Para 20 & 21)                                        | Status on MCC, MRF, Legacy waste, Landfill site, Bio-mining activities, Sewage Management being monitored by CMC, Ministry Jal Shakthi, Govt. of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Steps taken on decentralised management is reviewed and also it is suggested for further                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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|    |           | India                                                                                                                                                                                  | follow up action to be taken by concerned Departments. The SPCB is submitting the MPR on monthly basis to NMCG with copy to CPCB. The MPR from January to March 2023 in prescribed format is to be submitted                                                                                                                                                                                                 |
| 4. | (Para 25) | Status of State on SWM (2257 TPD) & 37.46 Lakh MT and current gap of 514 (642 – 128) MLD of sewage management.                                                                         | Latest generation status is intimated by H & UD Dept. vide Letter No. 4590 dt. 01.03.2023. The details are MCC-250 Nos. with treatment capacity 1158 TPD (wet waste) with generation quantity 1158 TPD, MRF- 216 Nos. with treatment capacity of 2220 TPD (dry waste) with generation quantity of 1099 TPD. Waste segregations are done, recyclables are sold and non-recyclables are sold to Cement Plants. |
| 5. | (Para 26) | As per commitment of the State <b>Rs. 1152 Crore (1138)</b> of non-lapsable fund to be kept in ring fenced account to be spent within one year to achieve the gaps as per action plan. | The H & UD Department is to take action for compliance and keep non lapsable fund for utilisation and compliance within one year. The six monthly progress is to be submitted as per direction.                                                                                                                                                                                                              |
| 6. | (Para 27) | State may evolve mechanism for raising the funds by collecting user charges from households, contribution of                                                                           | Follow up action is to be taken                                                                                                                                                                                                                                                                                                                                                                              |

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|    |                | corporate/ business sectors, commercial establishments, tourists contributing for solid waste generation.                                                                                                                                                                                                                                                                                                                                          |                                                                                                                              |
| 7. | (Para 31 & 32) | <p>Dump site management: Source of air and water pollution generates foul smell and for maintaining the ground water quality, thus step is to be taken.</p> <p>Use of reclaimed land occupied by legacy waste dump sites, Use of CAMPA funds. Prevention of fire at dump site.</p>                                                                                                                                                                 | Follow up action is to be taken for Bhuasuni dump site.                                                                      |
| 8. | (Para 33)      | <p>Bio-remediation/ Bio mining process as per CPCB guideline. All other wastes i.e. Plastic, Construction and Demolition, Bio Medical, Hazardous and E Waste are not to be mingled and treated with solid waste. Guideline of MoHUA on "Waste to Wealth-2017: under SBM programme is to be followed.</p>                                                                                                                                           | The Bio-mining is to be done as proposed and is to be completed. The guideline of MoHUA is to be followed.                   |
| 9. | (Para 34)      | <p>Sewage treatment of Gap of 514 MLD is reported. No faecal contaminants are discharged into water streams/ponds/rivers. The STPs are to be operated properly and monitoring is to be done for compliance of discharge standard. Treated water is to be used for secondary purpose. The committee is to be constituted and submit report.</p> <p>The committee is to examine alternative options for utilizing the grey water for agriculture</p> | SPCB has constituted the committee vide order No. 2993 dt. 28.02.2023. The compliance is to be submitted before Hon'ble NGT. |

- 4 -

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|     |           | with applicable standards, pisciculture or other such purposes. It will be desirable that there is geo-tagging of sewage outfalls in the receiving water system and its marking on GIS based maps with unique code, ensuring that the same are checked and there are no discharges to water bodies.                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                              |
| 10. | (Para 38) | Adoption of cost effective method of sewage treatment, reduction on use of water imposing ZLD on industries, Housing societies with imposing CTE/ CTO conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Dept. is to take action on adequacy of sewage management - SPCB for compliance and to impose in CTE & CTO conditions in housing societies above 20,000 Square Meter with monitoring thereof. |
| 11. | (Para 39) | <p>MoEF &amp; CC notification of 25/02/2022 on Management of sewage, waste water, reuse and recycle of treated waste water by dual plumbing system. Supply of fresh water for drinking, cooking and bathing etc. and another for supply of treated water for flushing.</p> <p>For projects with built up area of 5000 to 20,000 square meters onsite sewage treatment facility where no Municipal treatment site exists. Black water to be discharged to septic tank and grey water through treatment system to be discharged / utilised.</p> <p>For projects above 20,000 square meter on site STP to treat 100 % sewage generated.</p> | <p>The compliance is to be made and treated water to be used/ recirculation as per direction.</p> <p>The compliance is to be made in the housing societies.</p>                              |

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|     |                | Maintaining source of clean water (rivers, storm water drains and water bodies-Lakes, wetlands etc.) free from treated and untreated sewage, channellising treated sewage for non-portable purposes.                                                                                                                                                                                              |                                                            |
| 12. | (Para 41)      | Utilisation of treated sewage in Malls, Industrial Estates, Automobile establishments, Power Plants, Play grounds, railway Stations, Bus Stands, Local Bodies, Universities etc. to save portable water for drinking purpose. State to make plan for use of treated water.                                                                                                                        | To be followed up.                                         |
| 13. | (Para 43 & 44) | Effective management of STP and <b>FSTP</b> . Guidelines of SBM - U 2.0 are to be referred.<br><br>The STPs are to be operated in full utilization capacity. A <b>centralized mechanism</b> for operation on continuous basis to be made preferably within one month.                                                                                                                             | Action is to be taken by the H & UD/ PR & DW Dept. & SPCB. |
| 14. | (Para 45 & 46) | Sewage treatment facilities adopted in terms of septic tank/soak pit/FSTP particularly for Rural areas and Villages to be reviewed in view of health, hygiene and the guidelines of MoUD.<br><br><b>Comprehensive plan</b> to be made for control of (Solid & liquid) pollution with allocation of adequate budget provision. Generation of awareness with public participation and contribution. | -do-                                                       |

-6-

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| 15. | (Para 48)      | For both Solid and Liquid waste effective management experts to be involved with other stake holders to evolve models for protection of environment. Campaigns with public involvement to be done. Direction passed to Chief Secretary to entrust responsibility to Senior Secretaries to monitor waste management for establishments governed by non-municipal entities.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | The Departments are to take action effectively.                                                                                                                                                                                                                                                                                                                                                                         |
| 16. | (Para 50 & 52) | <p>While reviewing the progress in formulation and implementation of <b>District Environment Plan (DEP)</b>, as per Articles 243 W and other provisions of the Constitution read with 11th and 12th Schedule, vide order dated 17.01.2023 in O.A No. 360/2018, Shree Nath Sharma vs. Union of India &amp; Ors., the Tribunal noted that in the State of Odisha <b>District Environment Plans have been prepared for all the 30 Districts</b> which are to be duly implemented by the District Magistrates through District Level Committees.(BMW management is linked).</p> <p>The District Environment Plans must have authentic and updated database which can be helpful for policy making and execution of projects. Monitoring of bridging of gaps in sewage and solid waste management in districts is required by the Chief Secretary through a suitable nodal officer, preferably of the rank of Additional Chief Secretary.</p> | <p>Dist. Env. Plans are to be updated as per direction and uploaded in website. The matter of BMW management to be reviewed by Commissioner cum Secretary, Health &amp; FW Dept. The directions to be complied in time by the Departments concerned.</p> <p>The Additional Chief Secretary, FE &amp; CC Department will be the nodal officer for reviewing the progress of the Dist. Env. Plan and State Env. Plan.</p> |

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|     |                | Status of sewage and solid waste management with respect to each city, town and village be placed on State's portal and be made part of District environment Plan. This may be done in next <b>two months</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 17. | (Para 53 & 54) | Waste Management in Armed Forces and Cantonment area and co-ordination with ULBs and monitoring thereof. State to interact with Defence organisation to share work experience.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Suitable follow up action is to be taken by the departments concerned.                                                                                                                                                                                                                                                                                                                                                                                      |
| 18. | (Para 55)      | <p>Centralized single window mechanism for planning, capacity building and monitoring of waste management at the State level. Local authorities have to do their duty and stock taking at the district levels to continue with due supervision and control of such mechanism.</p> <p>It should be headed by an officer of the rank of Additional Chief Secretary with representation from concerned departments – Urban Development, Rural Development, Environment and Forest, Agriculture, Water Resources, Fisheries and Industries.</p> <p>The mechanism should be working on fulltime basis. Continuous training programme for those involved in execution of waste management projects.</p> | <p>The EMC cell is reviewing the progress. Follow up action to be taken.</p> <p>The Additional Chief Secretary, FE &amp; CC Department will review the progress of waste management and head the committee with representation from the other Departments as per order dt. 27.01.2023 for Centralized Single Window mechanism on planning, capacity building and monitoring of waste management at State level. Other co-opted members may be included.</p> |
| 19. | (Para 59)      | Compliance to SWM Rules,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | To be monitored and                                                                                                                                                                                                                                                                                                                                                                                                                                         |

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|     |                    | 2016 being monitored by CMC, Ministry of Jal Shakti.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | implemented as per directions by the Departments concerned. The MPR to be submitted by SPCB.                                                                                                                                                                                                                                                                                                       |
| 20. | (Para 62, 64 & 65) | <p>State to raise funds from generators / contributors of waste.</p> <p>There is gap of <b>514 MLD in sewage generation</b> and treatment and <b>legacy waste of 37 Lakh MT</b>. As such the State would be liable to pay compensation of about Rs. 1138 crore at the rate of compensation fixed in other States. Since, higher amount funds allocated of an amount <b>Rs. 1152 crore</b>, to be credited to a separate ring fenced account for the purpose.</p> <p>The Hon'ble NGT refrained from levying EC on the State of Odisha for time being. Ring-fenced account may be kept as 'non lapsable' fund.</p> | <p>The commitment letter submitted and it is to be kept in non-lapsable ring fenced Account. Follow up action to be taken for compliance with in timeline by the Housing and UD Department.</p> <p>The expenditure to be incurred exclusively for waste management (both Solid and Liquid) as per order dt. 27.01.2023 and an affidavit to be filed before Hon'ble NGT by the Chief Secretary.</p> |

**Concluding remarks:**

- i. The Chief Secretary, Odisha expressed views for proper compliance of SWM Rules, 2016, effective sewage management and other environmental norms as per the directions issued from time to time. The gap on achievement of compliance on sewage management in the State is to be expedited. The fund of **Rs. 1152 Crore** as committed by the State is to be spent in timeline for successful implementation of the directions. The adoption of waste management of Indore city was also discussed. In the rural area the IEC campaign is to be made with implementation of SBM programme. The Panchayats are to be declared "single use plastic free" and also SDG money is to be spent for this purpose. The Principal Secretary, H & UD Dept. also intimated that in the State the working of Rural-Urban convergence is accepted as a national level model. The committee report is to be submitted by SPCB on the directions. The MPR and six monthly reports are to be submitted before Hon'ble NGT.
- ii. All the nodal Depts. are to submit compliance status and required information to FE

& CC Dept. through both PDF and MS Word file (email: [env1992@gmail.com](mailto:env1992@gmail.com)). The Chief Secretary desired to work in proper co-ordination so as to make the State fully compliant on Waste Management Rules & Sewage Management. Proper documentation is also suggested by the Chief Secretary. Besides above, all other directions of dt. 27.01.2023 are to be complied in Hon'ble NGT O.A. No. 606/ 2018 & O.A. No. 593/ 2017 and related matters by the departments concerned.

The meeting ended with vote of thanks to the Chair and also to the Participants.



(Shri Pradeep Kumar Jena, IAS)

Chief Secretary, Govt. of Odisha

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NGT Matter/Urgent  
By E- mail

**Government of Odisha**  
**Forest, Environment & Climate Change Department**

No. FE-ENV3-ENV-0016-2018 17269 / FE&CC, Date. 27 /09/2021

From

Sri Susanta Nanda, IFS,  
Director, Environment-Cum-Special Secretary to Government

To

The Member Secretary,  
State Pollution Control Board, Odisha

Sub: Minutes of the 4<sup>th</sup> Meeting of River Rejuvenation Committee held on **07.09.2021** at 12:30 PM on Virtual Mode under the Chairmanship of Addl. Chief Secretary, FE&CC Department.

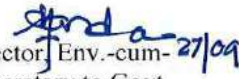
Sir,

In inviting a reference to the subject cited above, I am directed to enclose herewith the approved minutes of the 4<sup>th</sup> Meeting of River Rejuvenation Committee held on **07.09.2021** at 12:30 PM on Virtual Mode under the Chairmanship of Addl. Chief Secretary, FE&CC Department for your kind information and necessary compliance thereof.

You are further requested as Member Convenor to communicate the copy of minutes among other members for necessary compliance.

Yours faithfully,

Encl: As above

  
Director, Env.-cum-  
Special Secretary to Govt.

Memo No. 17270 /FE&CC, dt. 27.09.2021

Copy forwarded to Senior PS to Additional Chief Secretary, FE & CC Department for kind information of Additional Chief Secretary.

  
Director, Environment-cum-  
Special Secretary to Govt.

**Minutes of the 4<sup>th</sup> meeting of River Rejuvenation Committee held on 07.9.2021 at  
12:30 PM through Virtual Mode**

The Additional Chief Secretary, Forest, Environment and Climate Change Department welcomed all the Members who have virtually attended 4<sup>th</sup> meeting of the River Rejuvenation Committee and gave an outline of the previous three meetings held in connection with preparation of action plans for restoration of 19 polluted river stretches in the State identified by CPCB and covered under the Hon'ble NGT case in the matter of OA 673 of 2018. List of the participants attended the virtual meeting are enclosed as Annexure-1.

With the permission of the Chair, Member Secretary of State Pollution Control Board, Odisha gave a detailed presentation as given below on the actions taken by different organizations as a compliances to the Proceedings of the 3<sup>rd</sup> meeting of River Rejuvenation Committee held on 04.6.2019 and actions suggested in last ten meetings of the Central Monitoring Committee constituted in compliance to the direction of the Hon'ble NGT passed in the order dated 06.12.2019.

| Sl. No. | Decisions of the 3 <sup>rd</sup> Meeting of RRC held on 04.6.2019                                                                                                                                                               | Compliances                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Progress made so far and the Decisions taken                                                                                                                                                                                                                                                            |
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| 1       | The Committee approved 10 Action plans and recommended to submit these action plans to CPCB within the stipulated date line i.e. 30.6.2019 after incorporating the information to be received from OWSSB and H & UD Department. | Action plan of the 10 polluted river stretches such as (i) Kuakhai (Urali to Bhubaneswar) (Priority-IV), (ii) Mahanadi (Sambalpur to Paradeep) (Priority-III), (iii) Rushikulya (Pratatpur to Ganjam) (Priority-V), (iv) Banguru nallah (along Talcher Rengali) ((Priority-V), (v) Bheden (along Bheden) (Priority-V), (vi) Kusumi (along Tangi) (Priority-V), (vii) Nuna (along Bijipur) (Priority-V), (viii) Sabulia (along Jagannathpatna, Rambha) (Priority-V), (ix) Nandira Jhor (D/s Talcher) (Priority-V), (x) Budhabalanga (Muahulia to Baripada) (Priority-V) submitted to CPCB vide letter No. 6002 dated 20.06.2019. | All ten action plans have been approved by CPCB for implementation. Progress made on the actions identified are regularly communicated through Monthly Progress Report to National Mission for Clean Ganga (NMCG) with copies to CPCB, Delhi and Department of F, E and CC Department, Govt. of Odisha. |

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| 2. | The list of polluted locations for the year 2018, which has already been shared with the H & UD Department, may also | The list of polluted locations for the year 2018 communicated to the PR and DW Department vide letter No. 6145 d | It was decided that H & UD Department and<br>Your Signature will appear here. |
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|    | be shared with the PR and DW Department for taking necessary action under Swachh Bharat Mission.                                                                                                                                                                                                                          | 22.06.2019                                                                                                        | department will furnish the information at the earliest.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 3. | PR and DW Department will take necessary action under Swachh Bharat Mission for abatement of river pollution in the above 10 stretches.                                                                                                                                                                                   |                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 4. | As either single marginal or number of exceedence of BOD values over the tolerance limit has been observed during the last two years in these above 10 river stretches, it was recommended to write to Hon'ble NGT with proper justification for deletion of these 10 stretches from the list of polluted river stretches | Requested for deletion of ten polluted river stretches made to Hon'ble NGT vide letter No. 6811 dated 09.07.2019. | CPCB has requested vide letter No. 1599 dated 03.06.2021 to submit the last two year water quality data along with physical evidence of the actions taken for considering the case for delisting of the polluted river stretches. Accordingly, Water Resource Department, Housing and Urban Development Department and Panchayati Raj and Drinking Water Departments have been requested vide letter No. 9228 dated 09.7.2021 to submit the action taken report along with physical evidence and expenditure incurred for compilation and submission to CPCB. |

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| 5. | It was decided that the Public toilet/ community toilet and pipe water supply are to be provided in slums along all 10 major drains leading to Gangua nallah to reduce pollution load.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | No information received from H & UD Department in this regard.                                                                                                 | It was decided that H & UD Department will furnish the information at the earliest.       |
| 6. | OWSSB will provide a detailed progress of STPs under construction, Septage Management Plan, Fund position, timeline for completion of each STPs, Septage management in the State within a week.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Fund position, monthly progress of STPs under construction, timeline for completion of each STPs, septage management in the State are being provided by OWSSB. | Monthly progress is being regularly communicated to NMCG.                                 |
| 7. | The Committee took a view that observations of CPCB on the action plan submitted for Priority-I Polluted river stretch, such as Flood plain zone protection and its management, rain water harvesting, ground water recharge aspect, maintaining E-Flows and water shed management, Good irrigation practices setting up of Biodiversity parks including removal of encroachment and plantation on both sides of rivers etc for rejuvenation are not practically implementable for such a small storm water drain, like Gangua which is approximately 30-40 Km long. Therefore it was decided to inform CPCB with enough justification for un-implementability of some of the observations. | Mentioned in the Action Plans submitted to CPCB.                                                                                                               | --                                                                                        |
| 8. | Water Resource Department shall continue to discharge water of Daya West Canal to Gangua nallah through Palasuni escape till the monsoon.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Water Resource Department is releasing 60-100 cusec water from Daya West canal through Palasuni escape to Gangua nallah till the onset of monsoon.             | Member Secretary, SPCB informed that even after release of such volume of water to Gangua |

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|    |                    |                           | <p>nallah, BOD still remain above the tolerance limit of 3.0 mg/L. Therefore, more volume of water needs to be released till the commissioning of STPs by Housing and Urban Development Department. Chief Engineer, HH, GIS &amp; CEM in Water Resource Department informed that as Daya West Canal is meant for irrigation purpose, it is difficult to release water more than the 50-60 cusec water.</p> <p>It was decided that the H &amp; UD Department will expedite the increase in capacity utilization of already commissioned four STPs and completion of the construction of fifth STP within the scheduled time and till that period, Water Resource Department may release water during lean period from Daya West Canal to Gangua nallah in consultation with the SPCB.</p> |
| 9. | The Water Resource | Water Resource Department | Member                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

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|     | Department shall ensure no discharge of wastewater of Cuttack city to river Kathajodi through Khannagar to sluice Gate                           | has communicated to Cuttack Municipal Corporation vide letter No. 23228 dated 06.9.2021 to provide the status on discharge of wastewater of Cuttack city to river Kathajodi through Khannagar to sluice Gate. | Secretary, OWSSB informed that soon after the commissioning of 16 MLD STP at Mattagajpur, no waste water will be discharged through Khan nagar.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 10. | The authority of Rourkela Steel Plant shall be requested to release water from Mandira dam to Sankh river to increase the flow in river Brahmani | SPCB has requested Rourkela Steel Plant authority vide letter No. 1871 dated 11.12.2019 to release water from Mandira dam to Sankh river to increase the flow in river Brahmani.                              | <p>Authority of Rourkela Steel Plant has informed vide letter No. 1871 dated 11.12.2019 that RSP will explore all possibilities to release water from Mandira dam during lean period, after meeting needs of small scale and medium scale industries and of RSP located on the bank of Sankh river to maintain e-flow of Brahmani river.</p> <p>It was decided that the H &amp; UD Department will expedite the increase in capacity utilization of already commissioned one STPs within the scheduled timeline so that the treated waste water will be released to Brahmani river and thereby need of discharge of water from</p> |

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|                                                                                                 |                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                   | Mandira dam may be avoided.                                                                                                                                       |
| 11.                                                                                             | The action points for the 9 polluted river stretches shall be circulated to the concerned Departments for submission of action taken reports so far taken for discussion in the next River Rejuvenation Committee Meeting | Communicated vide letter No. dated 1830 dated 02.12.2019                                                                                                                                                                                                                                                                                                                          | Monthly Progress reports of these stretches are being provided by the concerned Departments on regular basis.                                                     |
| 12.                                                                                             | The SPCB shall make a survey of the wastewater drains apart from the 10 major drains leading of Gangua nallah for identification of source of pollution.                                                                  | SPCB has identified three more drains in addition to already identified ten drains and being monitored regularly on monthly basis with respect to BOD and FC.                                                                                                                                                                                                                     | Water quality of these drains are being shared to NMCG in Monthly Progress Reports.                                                                               |
| <b>1<sup>st</sup> Meeting held on 08.01.2020 (Central Monitoring Committee, Govt. of India)</b> |                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                   |
| a.                                                                                              | Secretary, DOWR, RD & GR , Ministry of Jal Shakti directed that all States/ UTs must have recycle and reuse of water as a policy and must undertake regulatory measures to enforce the same.                              | <p>Chief Engineer, HH, GIS &amp; CEM in Water Resource Department informed that recycle and reuse of water is a component of the water allocation principle to different industries.</p> <p>Member Secretary, SPCB informed that directions are being given to recycle and reuse of treated waste water and to adopt Zero discharge concept under the consent administration.</p> | It was decided that SPCB will strengthen the monitoring mechanism for the implementation of the recycle, reuse and zero discharge concept of treated waste water. |
| <b>2<sup>nd</sup> meeting held on 19.02.2020</b>                                                |                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                   |
| a.                                                                                              | All states to identify Nodal Officer for submission of MPR and coordination with NMCG in the matter, Particulars of Nodal Officer may be furnished for ready coordination (Preferably Member Secretary, State             | SPCB is regularly submitting the MPR to NMCG in the prescribed format.                                                                                                                                                                                                                                                                                                            | It was decided that the F, E and CC will notify regarding the nomination of Nodal Officer.                                                                        |

|    |                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                        |                                                                                                             |
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|    | Pollution Control Board). Format for MPR has been given.                                                                                                                                                                                                                                                                        |                                                                                                                                                        |                                                                                                             |
| b. | All the States must develop a monitoring mechanism, online or app based, for monitoring the functionality of the STPs and the discharge water quality. Also, one officer in each state may be earmarked to compile and regularly monitor all STP data and ensure that corrective action is taken by all the concerned agencies. | Member Secretary, SPCB informed that CPCB has developed an online portal for monitoring the functionality of the STPs and the discharge water quality. | It was decided that SPCB will share the login ID and password with the H and UD Department for the purpose. |

|    |                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                     |                                                                                                                                                    |
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| c. | States/ UTs/ Local bodies are responsible for sewage treatment by setting up of required sewerage infrastructure so that the rivers are not polluted and compliance of the orders of NGT shall not be linked with the financial assistance from Ministry of Jal Shakti. | Member Secretary, OWSSB informed that 10 STPs of installed capacity of 266.50 MLD is operating in Cuttack, Puri, Talcher, Rourkela and Bhubaneswar city in which at present 90.12 MLD waste water is being treated. | It was decided that H * UD Department will expedite the sewerage network infrastructure to attain total capacity utilization capacity of the STPs. |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|

**3<sup>rd</sup> meeting held on 23.06.2020**

|    |                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                            |    |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| a. | States to regularly submit soft copies of the MPRs containing details of all the stretches to NMCG by 20 <sup>th</sup> of every month                                                                                                                                          | Member Secretary, SPCB informed that the MPRs in the prescribed format are being regularly submitted to NMCG .                                                                                                             | -- |
| b. | Shri A. Sudhakar, Additional Director CPCB, informed that with regard to change in priority of rivers due to improvement in water quality, not only BOD but 5 parameters, including Fecal Streptococci, (viz. pH, DO, BOD, Fecal Coliform and Fecal Streptococci ) needs to be | Member Secretary, SPCB informed that all the stated five parameters are being monitored by the Board and the compiled data of last two years will be submitted to CPCB along with the physical evidences of actions taken. | -- |

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|  | monitored as per the notification of MoEF & CC, and these should be looked upon and strictly followed by RRC. A 2 year monitoring data with 5 parameters needs to be examined before any change in priority of river stretch is notified. |  |  |
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**4<sup>th</sup> meeting held on 20.07.2020**

|    |                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                         |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| a. | In order to ensure proper functioning of STPs with maximum possible capacity utilization, insisted for expediting sewer networks to be put in place and also to provide house service connections simultaneously. | Member Secretary, OWSSB informed that 10 STPs of installed capacity of 266.50 MLD is operating in Cuttack, Puri, Talcher, Rourkela and Bhubaneswar city in which at present 90.12 MLD waste water is being treated. House service connections to the sewerage networks are in progress | It was decided that H & UD Department will expedite the sewerage network infrastructure and house sewer connections to attain total capacity utilization capacity of the STPs.                          |
| b. | State needs to provide details of Town-wise and Stretch-wise septage management undertaken in the entire State.                                                                                                   | Member Secretary, SPCB informed that only total numbers of septage management undertaken in the entire State are being provided by OWSSB.                                                                                                                                              | It was decided that H & UD Department to provide updated status of details of Town-wise and Stretch-wise septage management undertaken in the entire State to the SPCB in each month to include in MPR. |
| c. | Quantity of industrial effluent generated, number and capacity of installed ETPs also needs to be provided.                                                                                                       | Member Secretary, SPCB informed that such information are being regularly provided to NMCG in the MPR.                                                                                                                                                                                 | It was decided that SPCB will explore the coordination of Directorate of                                                                                                                                |

|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                       |                                                                                                                                                                                           |
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|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                       | Industries to strengthen the monitoring mechanism of Industrial effluents management.                                                                                                     |
| <b>5<sup>th</sup> meeting held on 31.08.2020</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                       |                                                                                                                                                                                           |
| a.                                               | ED (Tech), NMCG informed that as per CPCB 2015 report, sewage generation in the State is estimated to be 1273 MLD, whereas, as per the information provided by the State in their dossier, it is reported to be 4200 MLD which includes sewage from rural areas also. Secretary, Ministry of Jal Shakti observed that the figure of sewage generation of 4200 MLD seems to be not realistic and asked the State Government to reconcile and confirm the same. | Member Secretary, SPCB informed that at present wastewater generation from only 6 ULBs (Bhubaneswar, Puri, Cuttack, Sambalpur, Rourkel and Talcher) are being provided by the H & UD Department instead of the quantity of wastewater generation of the entire state. | It was decided that the H and UD Department will take immediate steps to reconcile the total quantity of wastewater generation in the State as this remains an issue in the CMC Meetings. |
| b.                                               | Amount of sewage being treated by STP and FSTP needs to be provided separately.                                                                                                                                                                                                                                                                                                                                                                               | Member Secretary, OWSSB informed that amount of sewage being treated by STP and FSTP are being provided separately.                                                                                                                                                   | --                                                                                                                                                                                        |
| c.                                               | Similarly, progress made in on-going and proposed projects of STP and FSTP to be provided separately.                                                                                                                                                                                                                                                                                                                                                         | Member Secretary, OWSSB informed that progress made in on-going and proposed projects of STP are being provided separately.                                                                                                                                           | It was decided that the H and UD Department will provide progress made in on-going and proposed projects of FSTP to SPCB on regular basis.                                                |
| <b>6<sup>th</sup> meeting held on 30.9.2020</b>  |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                       |                                                                                                                                                                                           |
| a.                                               | Each State should have proper database with regards to sewage, industrial effluent, solid waste,                                                                                                                                                                                                                                                                                                                                                              | Member Secretary, SPCB informed that database with regards to sewage,                                                                                                                                                                                                 | It was decided that such databases                                                                                                                                                        |

|    |                                                                                                                                                                                                                                                                                                                   |                                                                                                             |                                                                                                                                                 |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
|    | hazardous waste and biomedical waste as well as its management. Data should be collected in respect of the whole State and also proper monitoring mechanism should be adopted by the States.                                                                                                                      | industrial effluent, solid waste, hazardous waste and biomedical waste generation as well as its management | should be regularly updated and the monitoring mechanism of the implementation of the respective waste management rules are to be strengthened. |
| b. | It was highlighted that management of solid waste is a major issue apart from sewage & industrial effluent, which also needs adequate attention and monitoring of the existing infrastructure.                                                                                                                    | --                                                                                                          | It was decided that H & UD Department will strengthen the monitoring mechanism for the proper management of solid waste.                        |
| c. | The States need to ensure that the existing solid waste processing facilities are optimally utilized, sanitary landfill sites are properly maintained, dumping on floodplains/ghats needs to be prevented & checked regularly, and screens/ traps may be installed on the drains and should be regularly cleaned. | --                                                                                                          | It was decided that the H & UD Department will take necessary actions in this regard.                                                           |
| d. | CSR funds may be tapped for sewage management and Ministry of Jal Shakti should take lead in assisting States in this regard. With regards to tapping of CSR funds, States should look for contribution of big industries in their State and should engage them.                                                  | --                                                                                                          | It was decided that the Directorate of Industries will take a lead role in contributing financially for the sewage management of the State.     |

**7<sup>th</sup> meeting held on 09.11.2020**

|    |                                  |                        |                |
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| a. | Model River being adopted by the | Member Secretary, SPCB | It was decided |
|----|----------------------------------|------------------------|----------------|

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|                                                  | State to be identified and specified in the MPR.                                                                                | informed that vide letter 3277 dated 22.07.2020, OWSSB has identified Cuttack stretch of Kathajodi river as model river for restoration purpose. The BOD and TC levels in the stretch is not conforming to the designated best use classification due to discharge of wastewater through Khan nagar Sluicgate. | that the H & UD Department will expedite the work to complete the installation of 16 MLD STP at Mattagajpur and to divert the wastewater which is being discharged through Khan nagar Sluicgate to the STP within the scheduled period of December, 2021. |
| b.                                               | As per the directions of NGT, Action Plan for addressing the coastal zone pollution needs to be prepared and submitted to CPCB. | Member Secretary, SPCB informed F & E Department has submitted the coastal zone management Plans of coastal districts of Odisha to CPCB as Action Plans. However, CPCB desires a more detailed action Plan for restoration of Coastal stretch.                                                                 | It was decided that as the action plans are to cover pollution aspects for restoration purpose, the SPCB will prepare the Action Plans on an urgent basis for submission to CPCB.                                                                         |
| <b>8<sup>th</sup> meeting held on 05.01.2021</b> |                                                                                                                                 |                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                           |
| a.                                               | Secretary, Ministry of Jal Shakti suggested that the State needs to improve the utilization capacity of the existing STPs       | The matter has already been discussed.                                                                                                                                                                                                                                                                         | --                                                                                                                                                                                                                                                        |
| <b>9<sup>th</sup> meeting held on 04.03.2021</b> |                                                                                                                                 |                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                           |
| a.                                               | States were directed to ensure                                                                                                  | --                                                                                                                                                                                                                                                                                                             | --                                                                                                                                                                                                                                                        |

|                                                   |                                                                                                                                                                                                                                                                                                        |                                                                                                                                                               |                                                                                                                                                                   |
|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                   | compliance with the Directions passed by NGT vide its latest order dated 22.02.2021 .                                                                                                                                                                                                                  |                                                                                                                                                               |                                                                                                                                                                   |
|                                                   | <ul style="list-style-type: none"> <li>River Rejuvenation Committees in the States/UTs and CMC to continue functioning.</li> </ul>                                                                                                                                                                     | --                                                                                                                                                            | It was decided to conduct regular meeting of the River Rejuvenation Committees.                                                                                   |
|                                                   | <ul style="list-style-type: none"> <li>Statutory mechanism existing in form of October, 2016 Ganga Authority Notification may be adopted for all the river stretches as issues involved are common. States were requested to refer to the Authority notification available on NMCG website.</li> </ul> | --                                                                                                                                                            | It was decided to explore the need of adoption of Statutory mechanism existing in form of October, 2016 Ganga Authority Notification for the rivers in the State. |
| b.                                                | States/UTs to ensure that all the rivers in the country should attain good health and to ensure the quality is not degraded.                                                                                                                                                                           | Members Secretary, SPCB informed that all 11 river systems are being monitored on monthly basis at 129 monitoring stations with respect to its water quality. | --                                                                                                                                                                |
| c.                                                | Fecal coliform should be a parameter for monitoring of polluted river stretches.                                                                                                                                                                                                                       | Members Secretary, SPCB informed that Fecal Coliform is being monitored at all river stations and being communicated to CPCB.                                 | --                                                                                                                                                                |
| <b>10<sup>th</sup> meeting held on 09.07.2021</b> |                                                                                                                                                                                                                                                                                                        |                                                                                                                                                               |                                                                                                                                                                   |
| a.                                                | State should take steps to maintain e-flow in the rivers, in order to ensure sustenance of river ecology.                                                                                                                                                                                              | --                                                                                                                                                            | It was decided that the Water Resource Department to take action in the regard for calculation of e-                                                              |

|    |                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                             |                                                                                                                                                                                                             |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                             | flow of the rivers and mechanism of e-flow maintenance of rivers during non-monsoon periods.                                                                                                                |
| b. | In compliance to the directions of NGT in the matter OA No 325 of 2015, States should take steps in inventorizing the existing water bodies and efforts should be made in maintaining/improving the water quality and conserving of the water bodies. | Chief Engineer, HH, GIS & CEM in Water Resource Department informed that actions are being taken to inventorize the existing water bodies and preparation of action plans for maintaining/improving the water quality and conservation of the water bodies. | --                                                                                                                                                                                                          |
| c. | Timeline of NGT for completion of STPs is already over and the States need to take fresh permission from NGT for extension of the timelines.                                                                                                          | --                                                                                                                                                                                                                                                          | It was decided that the H & UD Department to seek fresh permission for extension of the timeline, if required, to the Hon'ble NGT for completion of STPs, sewerage network and household sewer connections. |
| d. | The State Government needs to ensure compliance of industrial units with the environmental norms and not contribute to pollution load to any of polluted river stretches and/or the recipient water bodies.                                           | Member Secretary, SPCB informed that this is being monitored under the consent administration of the Board. Show cause Notice or Closure Notice are being issued to the defaulting industrial units in case of violations.                                  | --                                                                                                                                                                                                          |
| e. | For Bhubaneswar and Cuttack,                                                                                                                                                                                                                          | --                                                                                                                                                                                                                                                          | It was decided                                                                                                                                                                                              |

|                                        |                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                    |                                                                       |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
|                                        | agreement has been signed for setting up 550 TPD centralized Waste to Energy Plant. The State Government was asked to expedite the same in order to ensure compliance to the Solid Waste Management Rules, 2018.                                                                        |                                                                                                                                                                                                                    | that the H & UD Department to expedite the matter on an urgent basis. |
| <b>Public Grievance Portal of NMCG</b> |                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                    |                                                                       |
| a.                                     | An online Public Grievance portal has been developed by NMCG to enable easy filing and redressal of public grievance with regards to illegal discharge of sewage/effluents. The portal may be regularly monitored and the issues are to be addressed within the stipulated time period. | Member Secretary, SPCB informed that the portal is being checked on daily basis to keep track of public grievance. No complain has been received in the portal since its installation on 12.01.2021 to 02.09.2021. | --                                                                    |

Besides the above matter, Additional Chief Secretary, F, E and CC Department, Govt. of Odisha also suggested to conduct monthly/ quarterly review of water quality status of surface water bodies and to initiate appropriate actions to restore the water bodies.

The meeting ended with vote of thanks to the Chair.



**Additional Chief Secretary**

**Forest, Environment and Climate Change Department**



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## STATE POLLUTION CONTROL BOARD, ODISHA

[DEPARTMENT OF FOREST, ENVIRONMENT & CLIMATE CHANGE, GOVERNMENT OF ODISHA]

Paribesh Bhawan, A/118, Nilakanthanagar, Unit-VIII,  
 Bhubaneswar – 751 012

No. 7876

VISC(LEM)Proj-206(Vol-II)/20-21

Dt. 06.5.2022

Meeting/ Urgent By Mail

To

The Additional Chief Secretary, Forest, Environment and Climate Change Department  
 The Principal Secretary to Govt., Water Resources Department  
 The Principal Secretary to Govt., Housing and Urban Development Department  
 The Commissioner, Bhubaneswar Municipal Corporation

Sub : Taking up a high level meeting for early completion of the ongoing sewerage treatment plants on the river side of Daya for ameliorating water pollution level- Reg.

Ref : This office Letter No. 7095 dated 22.4.2022

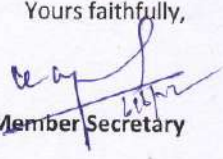
Sir,

In inviting a reference to the above captioned subject, I am directed to enclose herewith the minutes of the meeting on Restoration of Daya River held on 30.04.2022 at 12:30 PM under the Chairmanship of the Chief Secretary, Odisha for your kind information.

The compliance to the minutes may please be intimated within 27<sup>th</sup> May, 2022.

Yours faithfully,

Encl : As above

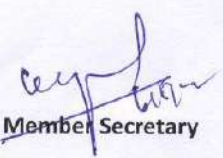
  
 Member Secretary

Memo No. 7877

Date 06.5.2022

Copy forwarded to Sri Umakanta Samantaray, Hon'ble Member, Odisha Legislative Assembly, Satyabadi, Puri for kind information.

Encl : As above

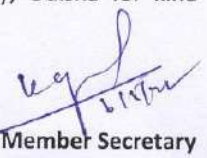
  
 Member Secretary

Memo No. 7878

Date 06.5.2022

Copy forwarded to the Officer on Special Duty (OSD) to Chief Secretary, Odisha for kind information of the Chief Secretary.

Encl : As above

  
 Member Secretary

**MINUTES OF THE MEETING ON RESTORATION OF WATER QUALITY OF DAYA RIVER HELD ON Dt. 30.04.2022 at 12:30 PM UNDER THE CHAIRMANSHIP OF THE CHIEF SECRETARY, ODISHA THROUGH VIRTUAL MODE**

The meeting was held on Dt. 30.4.2022 to review the actions taken on restoration of Daya river along Bhubaneswar with reference to the issue raised by Sri Umakanta Samantray, Hon'ble MLA, Satyabadi vide letter No. 1081/MS dated 11.04.2022.

Dr. K. Murugesan, IFS, Member Secretary, State Pollution Control Board, Odisha welcomed all the members who have virtually attended the meeting. Then, with the permission of the Chair, Member Secretary made a power-point presentation on the water quality status of Daya river, Gangua nallah and wastewater drains falling on Gangua nallah during the year 2021. It was informed that water quality of Daya river has been deteriorated due to the discharge of untreated wastewater of Bhubaneswar city through Gangua nallah. He also informed that so far 4 numbers of Sewage Treatment Plants with total treatment capacity 135.5 MLD have been installed for treatment of wastewater and one more STP with treatment capacity of 58 MLD is under progress. But the capacity utilization of these STPs is very less i.e., 19 MLD as per the information received from H & UD Department during March, 2022. Therefore it is necessary to expedite the actions to be taken by H & UD Department to increase the capacity utilization of the STPs.

Thereafter, Sri G. Mathi Vathanan, IAS, Principal Secretary, Housing and Urban development Department made a detailed presentation before the members on the actions taken for sewage treatment and septage treatment in Bhubaneswar city and the bottlenecks faced for early completion of the sewage Treatment Plants. He mentioned that as on April, 2022, the construction work of 58 MLD STP at Rokati is approximately 90 % completed and the completion time line is June, 2022. Besides these, two numbers of septage treatment plants of each 75 KLD capacity have been commissioned to treat fecal sludge generated in the city.

He also informed that besides the ground sewer connections to the pumping stations of the STP, it is also necessary to identify the other polluting sources to Daya river, Gangua nallah and also contributing to the waste-loads to the wastewater drains of the city. He has suggested the followings five points as additional measures to control the river pollution due to discharge of untreated wastewater.

1. Track all the 10 major drains and track all pollution sources from the river discharge points to backward. Google map may be referred to for tracking the sources.
2. Ground tothing to be done to check if all major housing complex/ apartments/ have either functional captive STP or connected to the city sewer system.

3. Verify all major polluting sources including housing, commercial, institutional and industrial establishments and take remedial actions.
4. Identify land parcels on either side of the major and tributary drains for construction of interception and diversion weir and stabilization ponds for enroute treatment and discharge back to drain
5. Identify the major pollution sources outside the BMC limits in the peri-urban and rural areas adjoining the Daya River stream basing on Satellite map information and take up remedial measures.

Sri Umakanta Samantray, Hon'ble MLA, Satyabadi has informed that due to water quality deterioration of Daya river and Gangua nallah, fish population in the river waters are getting decreased and also people in the downstream face a lot of difficulties in getting drinking water. Therefore, he requested to take urgent steps to address these issues.

The Chairman desired that necessary steps may be taken to complete the commissioning work of these five STPs within the scheduled timeline so as to achieve the goal of no untreated wastewater being discharged to river bodies.

He also desired that Water Resource Department may take necessary action to release water from Daya West Canal/ Kuakhai river to Gangua nallah so that sufficient dilution will be made available in Gangua nallah.

The Housing and Urban Development Department in coordination with the Regional Office, State Pollution Control Board, Bhubaneswar is to act on the suggestions made by Sri Mathi Vathanan, IAS and to place the action taken report before the next meeting.

The next meeting will be held on the first week of June, 2022.

The meeting ended with vote of thanks to the Chair and also to the Participants.

Shri Suresh Chandra Mahapatra, I.A.S.  
CHIEF SECRETARY, Govt. of Odisha



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**STATE POLLUTION CONTROL BOARD, ODISHA**  
 [DEPARTMENT OF FOREST, ENVIRONMENT & CLIMATE CHANGE, GOVERNMENT OF ODISHA]  
 Paribesh Bhawan, A/118, Nilakanthanagar, Unit-VIII,  
 Bhubaneswar – 751 012

No. 11921

VISC(LEM)Proj-302/2022-23

Dt. 08.7.2022

By Mail

To

The Additional Chief Secretary, Forest, Environment and Climate Change Department  
 The Principal Secretary to Govt., Water Resources Department  
 The Principal Secretary to Govt., Housing and Urban Development Department  
 The Commissioner, Bhubaneswar Municipal Corporation

Sub : 2<sup>nd</sup> High Level meeting for early completion of the ongoing sewerage treatment plants on the river side of Daya for ameliorating water pollution level- Reg.

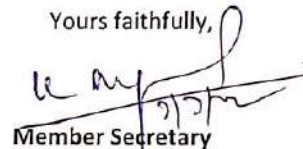
Ref : This office Letter No. 11067 dated 27.6.2022

Sir,

In inviting a reference to the above captioned subject, I am directed to enclose herewith the minutes of the meeting on Restoration of Daya River held on 02.7.2022 at 4:00 PM under the Chairmanship of the Chief Secretary, Odisha for your kind information and necessary action.

Yours faithfully,

Encl : As above

  
 Member Secretary

Memo No. 11922

Date 08.7.2022

Copy forwarded to Sri Umakanta Samantaray, Hon'ble Member, Odisha Legislative Assembly, Satyabadi, Puri for kind information and requested to attend the said meeting.

Encl : As above

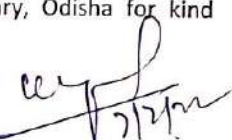
  
 Member Secretary

Memo No. 11923

Date 08.7.2022

Copy forwarded to the Officer on Special Duty (OSD) to Chief Secretary, Odisha for kind information of the Chief Secretary.

Encl : As above

  
 Member Secretary

Contd..

Memo No. 11924

Date 08.7.2022

Copy forwarded to the Additional Chief Environmental Engineer, State Pollution Control Board, Odisha for kind information and necessary action.

Encl : As above

  
Member Secretary

Memo No. 11925

Date 08.7.2022

Copy forwarded to the Regional Officer, State Pollution Control Board, Odisha, Bhubaneswar for kind information and necessary action.

Encl : As above

  
Member Secretary

**MINUTES OF THE 2<sup>nd</sup> HIGH LEVEL MEETING ON RESTORATION OF WATER QUALITY OF  
DAYA RIVER HELD ON Dt. 02.7.2022 at 4:00 P.M. UNDER THE CHAIRMANSHIP OF  
THE CHIEF SECRETARY, ODISHA THROUGH VIRTUAL MODE**

The 2<sup>nd</sup> High Level meeting was held on Dt. 02.7.2022 to review the actions taken on the restoration of Daya river along Bhubaneswar with reference to the issue raised by Sri Umakanta Samantray, Hon'ble MLA, Satyabadi vide letter No. 1081/MS dated 11.04.2022.

Dr. K. Murugesan, IFS, Member Secretary, State Pollution Control Board, Odisha welcomed all the members who have virtually attended the meeting. Then with the permission of the Chair, Member Secretary made a power-point presentation on the compliances made by the Board to the actions suggested in the 1<sup>st</sup> high level meeting held on dated 30.4.2022 at 12:30 PM. Analysis results of the joint water quality monitoring study of Daya river, Gangua nallah, Daya West Canal and ten drains falling on Gangua nallah, carried out with BMC officials in the month of May, 2022 was also presented. High concentrations of Biological Oxygen Demand (BOD) and coliform bacteria beyond the tolerance limits was noticed in Ganguanallah, Daya river and Daya West canal. As per the Information received from Water Resources Department, 6 -25 cusec/ day water was released from Daya West Canal through Palasuni Escape to Gangua nallah during June, 2022. Monthly average of the discharge was 16 cusec/day. As no significant improvement in water quality of Gangua nallah and Daya river has been observed with such low volume of water discharge, it is suggested to increase the water discharge quantity to upto 70-80 Cusec/day to Gangua nallah.

Sri Bhakta Ranjan Mohanty, Chief Engineer, Mahanadi Kathajodi Systems, Water Resources Department informed that at present maximum 20 cusecs per day water can be discharged from Daya West Canal to Gangua nallah. Because of heavy weed upto 1 meter height in Daya West canal, there is no driving force in the canal to support the discharge of more volume of water to Gangua nallah. Therefore, de-weeding of Daya West canal is necessary to discharge the desired volume of water to Gangua nallah. From 25<sup>th</sup> June, 2022, 500 cusec per day water is being discharged from Puri Main canal through Achyutpur Escape before Uttara to Daya river.

Thereafter, Er. P.K. Panigrahy, Project Director, WATCO made a presentation on the actions taken in compliance to the decisions taken in the 1<sup>st</sup> high level meeting as detailed below.

| Decisions of 1 <sup>st</sup> meeting on Dt. 30.4.2022                                                                                                              | Compliance and action taken                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Track all the 10 major drains and track all pollution sources from the river discharge points to backward. Google map may be referred for tracking the sources. | Complied.<br>Preparation of GIS map indicating all the 11 drains and Gangua nallah and Plotting of water quality parameter corresponding to the drains have been completed.<br>Water quality monitoring of all major drains falling on Gangua nallah, water quality of Daya West canal, Gangua nallah and Daya river were carried out in coordination with the State Pollution Control Board, Odisha |

|                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2. Ground trothing to be done to check if all major housing complex/ apartments/ have either functional captive STP or connected to the city sewer system.                                              | Complied.<br>Out of 68 responses received from Hotel, restaurants and Commercial establishments, 23 units have their functional treatment facilities and rest 45 units are directly discharging the wastewater to the nearby drains/ water bodies.                                                                                                                                                                    |
| 3. Verify all major polluting sources including housing, commercial, institutional and industrial establishments and take remedial actions.                                                             | Similarly, out of 268 responses received from Housing Societies (population : 1,03,907), only 91 societies (population : 43,994) have their own functional treatment facilities, whereas rest 177 societies are directly discharging the wastewater to nearby drains (population = 59,913).<br>Regarding industrial establishments, assistance of State Pollution Control Board is needed to collect the information. |
| 4. Identify land parcels on either side of the major and tributary drains for construction of Interception and Diversion weir and stabilization ponds for enroute treatment and discharge back to drain | Complied.<br>Treatment in STPs identified                                                                                                                                                                                                                                                                                                                                                                             |

Sri G. Mathi Vathanan, IAS, Principal Secretary, Housing and Urban development Department informed that the 56 MLD STP at Meherpalli has been commissioned and started functioning. The sewer network and targeted house hold sewer connection will be completed by December 2022. The 48 MLD STP at Rokati will be completed by October-December, 2022.

Besides, the Centralised wastewater treatment system like installation of STPs and connecting through Sewer network, he also stressed upon the decentralized wastewater system like onsite sanitation system, containment of sewage and septage and measures to take them to the Septage treatment plants. At present there are two septage treatment system each of 75 KLD operating in Bhubaneswar. As house sewer connection is a long run process, installation of STPs, installation of pumping stations and connecting with sewer networks cannot be the only solution for restoration of river water quality. Therefore, every establishment is supposed to have a septic tank and are supposed to contain their waste within their premises and de-sludge through the cesspool vehicles for transportation to the Septage treatment plants.

Further indiscriminate discharge by cesspool vehicle operators should be regulated through strict combined enforcement by the Bhubaneswar Municipal Corporation, Transport Department and Police authorities.

There are 177 housing societies and 47 commercial establishments do not have their own treatment systems and are directly discharging to the nearby drains. As these are not in sewer network areas, they should establish their own captive standalone treatment facilities as per the approved BDA guidelines.

Therefore BDA and BMC together have to take strict enforcement measures and impose penalty system for violation.

For collection of information from industrial establishments, coordination of Pollution Control Board is essential and should lead the team, issue necessary notices to the industrial establishments and submit the report within a three-week time on whether these are having functional ETPs/ STPs , and their discharge point.

He also suggested to take up the de-weeding and dredging of Daya West Canal and Gangua nallah by the Water Resource Department to increase the flow and attain dilution in these two water bodies. Further, the Pollution Control Board is to continue the water quality testing of the water bodies under concern.

Sri Vijay Amruta Kulange, IAS, Commissioner of Bhubaneswar Municipal Corporation informed that a Task force has been constituted for strict monitoring and surveillance of registration of cesspool vehicles, 100 % geo-tagging of the vehicles, installation of CCTV for illegal discharge of septage, monitoring through Smart City Bhubaneswar Dashboard and encroachment over Gangua nallah. Actions are also being taken for identification of community toilets without septic tanks and micro-level saturation of community toilets with septic tanks.

At the last, the Chairman appreciated the actions already taken by the related Departments and the Board and directed to take actions on the followings .

1. Joint inspection of Industrial establishments in Bhubaneswar by State Pollution Control Board and officials from H& UD and BMC to check the functionality of the treatment systems. In case of violation, the Pollution Control Board may issue notices to the violators. The report has to be submitted within three week.

**(Action: SPCB, H & UD, BMC)**

2. In case of non-sewer network areas, strict enforcement on the installation of captive septic tanks by the housing colonies and commercial establishments as per the BDA guidelines during construction period and de-sludging through cess pool vehicles for transportation to the septage treatment plants. Discharge through nearby drains will be strictly prohibited.

**(Action: BMC)**

3. Strict enforcement to control the indiscriminate illegal discharge by cesspool vehicle operators through registration with BMC, 100 % geo-tagging of the vehicles, cancellation of the license and seize of the vehicles in case of violators.

**(Action: BMC, RTO, Bhubaneswar)**

4. All housing colonies and commercial establishments in the sewer network areas should be connected with the Sewer network. Till the connection period, these units should have their captive septic tanks for containment of the sewage and seepage and remove them through only cesspool vehicle operators.

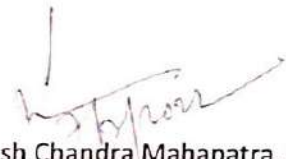
**(Action: BMC)**

5. Connection of sewer networks with the functional STPs should be done by December, 2022.  
(Action: H & UD)
6. Sufficient discharge of water from Daya West canal upto the maximum flowing capacity of Gangua nallah by maintaining its gradient & discharge of 500 cusec/day water from Puri main canal to Daya river during non-monsoon period.  
(Action: WR Department)
7. Regular water quality monitoring of drains outfalling to Gangua nallah, Daya West canal, Gangua nallah and Daya river.  
(Action: SPCB)
8. Restoration of Daya West canal water by identifying the source of pollution and to take steps to de-weeding of the canal and control the discharge of pollution to the canal. Widening of the roads on both side of the canal to make a 4-lane road keeping canal on the middle so as to prevent the growth of human habitation on the sides of canal.  
(Action: BMC , Irrigation Department & PWD)
9. Take all pollution control measures within December, 2022 so as to attain the goal of BOD 3.0 mg/L, and total Coliform bacteria within 5000 MPN/100 ml in Ganguanallah and Daya river.

**Concluding Remarks :**

As the Gangua nallah and Daya river are being regularly reviewed by National Green Tribunal and the Hon'ble High Court, stringent action needs to be taken to restore the water quality of the water bodies to safeguard the health of public at the downstream of the rivers and also to restore the water quality of Chilika lake.

The meeting ended with vote of thanks to the Chair and also to the Participants.

  
Shri Suresh Chandra Mahapatra, I.A.S.  
CHIEF SECRETARY, Govt. of Odisha

**Latest Water quality of polluted river, its tributaries, drains and ground water quality in the catchment of Polluted River stretches during February, 2023**

**Polluted River stretch: February, 2023**

| Name of polluted river stretch                                             | Name of Monitoring Station   | pH      | DO, mg/L | BOD, mg/L | TC, MPN/ 100 mL | FC, MPN/ 100 mL                       | FS, MPN/ 100 mL                              | Water Quality Status (Conforming (C) / Non-Conforming (NC)) |
|----------------------------------------------------------------------------|------------------------------|---------|----------|-----------|-----------------|---------------------------------------|----------------------------------------------|-------------------------------------------------------------|
| 1. Gangua nallah (D/s Bhubaneswar) (Priority-I)                            | Rajdhani Engineering College | 6.9     | 1.1      | 15        | >160000         | >160000                               | 540                                          | NC                                                          |
|                                                                            | Palasuni                     | 7.1     | 0.8      | 18        | >160000         | >160000                               | 350                                          | NC                                                          |
|                                                                            | Samantarapur                 | 7.1     | 0.4      | 16        | >160000         | >160000                               | 170                                          | NC                                                          |
|                                                                            | Vadimula                     | 7.3     | 1.8      | 10        | >160000         | >160000                               | 240                                          | NC                                                          |
| 2. Daya River (Bhubaneswar to Bargarh) (Priority-IV)                       | Bhubaneswar D/s at Kanti     | 7.4     | 3.4      | 4.8       | 92000           | 54000                                 | 170                                          | NC                                                          |
|                                                                            | Bhubaneswar FD/s at Manitri  | 7.5     | 3.8      | 4.3       | 54000           | 54000                                 | 130                                          | NC                                                          |
|                                                                            | Daya at Kanas                | 7.1     | 6.6      | 1.9       | 1300            | 220                                   | 5                                            | C                                                           |
| 3. Kuakhai River (Uruli to Bhubaneswar) (Priority-IV)                      | Bhubaneswar FU/s             | 7.7     | 10.3     | 1.3       | 1300            | 790                                   | 8                                            | C                                                           |
|                                                                            | Bhubaneswar U/s              | 7.8     | 9.0      | 1.4       | 2400            | 1100                                  | 17                                           | C                                                           |
| Bathing Water Quality (MOEF Notification G.S.R. No. 742(E) Dt. 25.09.2000) |                              | 6.5-8.5 | 5.0, min | 3.0, max  | -               | 500 (Desirable)<br>2500 (permissible) | 100 (Desirable)<br>500 (Maximum Permissible) |                                                             |

**Ground Water quality of Bhubaneswar city along Kuakhai River, Daya River and Gangua nallah**

| Station Name                                                      | Month         | pH      | BOD, mg/L | Nitrate-mg/L | TC, MPN/ 100 mL | FC, MPN/ 100 mL |
|-------------------------------------------------------------------|---------------|---------|-----------|--------------|-----------------|-----------------|
| Old town-Samantarapur Area                                        | October, 2022 | 7.1     | < 1.0     | 4.526        | 920             | 350             |
| Chandrasekharapur                                                 | October, 2022 | 7.4     | < 1.0     | 8.919        | <1.8            | <1.8            |
| Khandagiri Area                                                   | October, 2022 | 6.9     | < 1.0     | 2.617        | <1.8            | <1.8            |
| Capital Hospital Area,                                            | October, 2022 | 7.1     | < 1.0     | 4.074        | <1.8            | <1.8            |
| Laxmisagar area                                                   | October, 2022 | 6.8     | < 1.0     | 16.788       | <1.8            | <1.8            |
| Secretariate-Govenor House-Old bus stand Area                     | October, 2022 | 6.7     | < 1.0     | 18.414       | 1600            | 140             |
| Drinking water Specification (IS : 10500:2012)<br>Desirable limit | -             | 6.5-8.5 | 3.0, max  | 45           | Absent          | Absent          |

Ground water is monitored only during April and October of each year

**Drain Water quality of Bhubaneswar city falling on Gangua nallah (February, 2023)**

| Sl. No. | Drain Name                                                                           | BOD (mg/L) | FC (MPN/ 100 mL) |
|---------|--------------------------------------------------------------------------------------|------------|------------------|
| 1       | Drain No. 1A at Patia (Near Sree Leather)                                            | 113.0      | >160000          |
| 2       | Drain No. 1 (after Confluence of Drain 1 and 1A) at Patia near Club Town             | 88.0       | >160000          |
| 3       | Drain No 1 (after confluence of Drain 1, 1A, 1B and 1C) at Kalikhamar railway bridge | 68.0       | >160000          |
| 4       | Drain No. 3 (after confluence of Drain No. 2) at Sameigadia                          | 90.0       | >160000          |
| 5       | Drain No. 4 at Chakeisiani Canal Road                                                | 138.0      | >160000          |
| 6       | Drain No. 5 at Laxmi Vihar Phase-II                                                  | 143.0      | >160000          |
| 7       | Drain No. 6 at Badagada                                                              | 95.0       | >160000          |
| 8       | Drain No. 7 near Mahabir Road Culvert, Samantarapur                                  | 110.0      | >160000          |
| 9       | Drain No. 8 (after confluence of Drain No. 8A) at Gandamunda                         | 83.0       | >160000          |
| 10      | Drain No. 9 at Ghatikia (Near DFO Office)                                            | 93.0       | >160000          |
| 11      | Drain No. 9 (after confluence of drain No. 8) at Botanda                             | 90.0       | >160000          |
| 12      | Drain No 10 at Jharapada                                                             | 98.0       | >160000          |
| 13      | Drain No. 11 near Kuha                                                               | 4.2        | >160000          |

### Polluted River stretch: February, 2023

| Name of polluted river stretch                                             | Name of Monitoring Station  | pH      | DO, mg/L | BOD, mg/L | TC, MPN/ 100 mL | FC, MPN/ 100 mL                       | FS, MPN/ 100 mL                              | Water Quality Status (Conforming (C) / Non-Conforming (NC)) |
|----------------------------------------------------------------------------|-----------------------------|---------|----------|-----------|-----------------|---------------------------------------|----------------------------------------------|-------------------------------------------------------------|
| 4. Kathajodi River (Cuttack to Urali) (Priority-III)                       | Cuttack D/s                 | 8.1     | 8.8      | 3.8       | 160000          | 24000                                 | 170                                          | NC                                                          |
|                                                                            | Cuttack FD/s at Mattagajpur | 7.9     | 7.5      | 3.2       | 4900            | 1300                                  | 49                                           | NC                                                          |
| 5. Serua River (Khandaeta to Sankhatrasa) (Priority-V)                     | Cuttack FD/s at Sankhatrasa | 7.9     | 7.2      | 3.6       | 160000          | 54000                                 | 79                                           | NC                                                          |
| Bathing Water Quality (MOEF Notification G.S.R. No. 742(E) Dt. 25.09.2000) |                             | 6.5-8.5 | 5.0, min | 3.0, max  | -               | 500 (Desirable)<br>2500 (permissible) | 100 (Desirable)<br>500 (Maximum Permissible) |                                                             |

### Ground Water quality of Cuttack city along Mahanadi River, Kathajodi River and Serua River

| Stn Name                                                       | Month         | pH      | BOD, mg/L | Nitrate-mg/L | TC, MPN/ 100 mL | FC, MPN/ 100 mL |
|----------------------------------------------------------------|---------------|---------|-----------|--------------|-----------------|-----------------|
| Jagatpur                                                       | October, 2022 | 6.8     | 1.1       | 12.076       | 43              | 23              |
| Madhupatna-Kalyan Nagar Area                                   | October, 2022 | 6.7     | 1.2       | 4.561        | 31              | 23              |
| GW,Bidanasi-Tulasipur                                          | October, 2022 | 6.9     | < 1.0     | 1.430        | 33              | 24              |
| Badambadi Area                                                 | October, 2022 | 6.7     | < 1.0     | 7.533        | <1.8            | <1.8            |
| Mangalabag,                                                    | October, 2022 | 7.1     | 1.1       | 1.749        | 43              | 31              |
| Drinking water Specification (IS : 10500:2012) Desirable limit |               | 6.5-8.5 | 3.0, max  | 45           | Absent          | Absent          |

Ground water is monitored only during April and October of each year

### Characteristic of Drains falling on Kathajodi river (February, 2023)

| Sl. No. | Station Name                                                 | Parameters |           |           |           |           |         |
|---------|--------------------------------------------------------------|------------|-----------|-----------|-----------|-----------|---------|
|         |                                                              | pH         | BOD, mg/l | COD, mg/l | TSS, mg/l | TC        | FC      |
|         |                                                              |            |           |           |           | MPN/100ml |         |
| 1       | Wastewater discharge to Kathajodi river at Mattagajpur       | 7.3        | 4.0       | 25.0      | 13.0      | 28000     | 9400    |
| 2       | Wastewater discharge to Kathajodi river at CDA-Bidanasi area | 7.2        | 3.4       | 41.0      | 18.0      | 1200      | 400     |
| 3       | Wastewater discharge to Kathajodi river at Khannagar         | 7.1        | 63.0      | 140.0     | 203.0     | >160000   | >160000 |

**Polluted River stretch: February, 2023**

| Name of polluted river stretch                                             | Name of Monitoring Station                       | pH      | DO, mg/L | BOD, mg/L | TC, MPN/ 100 mL | FC, MPN/ 100 mL                       | FS, MPN/ 100 mL                              | Water Quality Status (Conforming (C) / Non-Conforming (NC)) |
|----------------------------------------------------------------------------|--------------------------------------------------|---------|----------|-----------|-----------------|---------------------------------------|----------------------------------------------|-------------------------------------------------------------|
| 6. Guradih nallah Along Rourkela <b>(Priority-III)</b>                     | Rourkela (before confluence with Brahmani river) | 7.2     | 1.2      | 8.0       | 24000           | 7900                                  | 110                                          | NC                                                          |
| 7. Brahmani (Rourkela to Biritola) <b>(Priority-V)</b>                     | Panposh D/s at Deogaon                           | 7.4     | 2.4      | 5.7       | 54000           | 7900                                  | 33                                           | NC                                                          |
|                                                                            | Rourkela D/s at Jalda                            | 7.5     | 2.8      | 5.3       | 35000           | 3300                                  | 49                                           | NC                                                          |
|                                                                            | Rourkela FD/s at Attaghat                        | 8.5     | 3.2      | 4.8       | 1700            | 330                                   | 8                                            | NC                                                          |
|                                                                            | Rourkela FFD/s at Biritola                       | 8.1     | 5.8      | 2.8       | 2400            | 490                                   | 14                                           | C                                                           |
| Bathing Water Quality (MOEF Notification G.S.R. No. 742(E) Dt. 25.09.2000) |                                                  | 6.5-8.5 | 5.0, min | 3.0, max  | -               | 500 (Desirable)<br>2500 (permissible) | 100 (Desirable)<br>500 (Maximum Permissible) |                                                             |

No Ground water quality monitoring in Rourkela city by State Pollution Control Board, Odisha

**Polluted River stretch : February, 2023**

| Name of polluted river stretch                                                   | Name of Monitoring Station | pH      | DO, mg/L | BOD, mg/L | TC, MPN/ 100 mL | FC, MPN/ 100 mL                       | FS, MPN/ 100 mL                              | Water Quality Status (Conforming (C) / Non-Conforming (NC)) |
|----------------------------------------------------------------------------------|----------------------------|---------|----------|-----------|-----------------|---------------------------------------|----------------------------------------------|-------------------------------------------------------------|
| 8. Nandira jhor D/s Talcher<br>(Priority-III)                                    | Nandira D/s at Dasanali    | 7.5     | 10.0     | 1.5       | 2200            | 330                                   | <1.8                                         | C                                                           |
| 9. Banguru nallah Along Talcher<br>(Priority-V)                                  | Along Talcher              | 7.7     | 9.0      | 1.6       | 1300            | 330                                   | 13                                           | C                                                           |
| Bathing Water Quality<br>(MOEF Notification G.S.R. No. 742(E)<br>Dt. 25.09.2000) |                            | 6.5-8.5 | 5.0, min | 3.0, max  | -               | 500 (Desirable)<br>2500 (permissible) | 100 (Desirable)<br>500 (Maximum Permissible) |                                                             |

**Ground Water quality of Talcher city in the catchment of Nandira jhor and Banguru nallah**

| Stn Name                                                             | Month         | pH      | BOD, mg/L | Nitrate-mg/L | TC, MPN/ 100 mL | FC, MPN/ 100 mL |
|----------------------------------------------------------------------|---------------|---------|-----------|--------------|-----------------|-----------------|
| Talcher Town                                                         | October, 2022 | 6.8     | < 1.0     | 4.295        | <1.8            | <1.8            |
| Meramundali area                                                     | October, 2022 | 7.4     | < 1.0     | 3.551        | 130             | 33              |
| Talcher Thermal area                                                 | October, 2022 | 6.9     | < 1.0     | 3.449        | <1.8            | <1.8            |
| Banarpal                                                             | October, 2022 | 7.1     | < 1.0     | 2.502        | <1.8            | <1.8            |
| Kulad                                                                | October, 2022 | 7.2     | 1.1       | 2.772        | 350             | 79              |
| Drinking water Specification<br>(IS : 10500:2012)<br>Desirable limit |               | 6.5-8.5 | -         | 45           | Absent          | Absent          |

Ground water is monitored only during April and October of each year

**Polluted River stretch: February, 2023**

| Name of polluted river stretch                                             | Name of Monitoring Station    | pH      | DO, mg/L | BOD, mg/L | TC, MPN/ 100 mL | FC, MPN/ 100 mL                       | FS, MPN/ 100 mL                              | Water Quality Status (Conforming (C) / Non-Conforming (NC)) |
|----------------------------------------------------------------------------|-------------------------------|---------|----------|-----------|-----------------|---------------------------------------|----------------------------------------------|-------------------------------------------------------------|
| 10. Mahanadi (Sambalpur to Paradeep) (Priority-V)                          | Sambalpur D/s                 | 7.5     | 7.4      | 1.6       | 1700            | 490                                   | <1.8                                         | C                                                           |
|                                                                            | Sambalpur FD/s at Shankarmath | 7.2     | 7.6      | 1.4       | 2400            | 490                                   | <1.8                                         | C                                                           |
|                                                                            | Sambalpur FFD/s at Huma       | 7.4     | 7.8      | 1.5       | 1300            | 330                                   | <1.8                                         | C                                                           |
|                                                                            | Sonepur U/s                   | 7.9     | 7.8      | 1.2       | 220             | 33                                    | <1.8                                         | C                                                           |
|                                                                            | Sonepur D/s                   | 7.7     | 7.6      | 1.4       | 330             | 130                                   | <1.8                                         | C                                                           |
|                                                                            | Tikarpada                     | 7.4     | 8.2      | 1.5       | 130             | 13                                    | <1.8                                         | C                                                           |
|                                                                            | Narasinghpur                  | 7.6     | 8.2      | 1.2       | 490             | 78                                    | <1.8                                         | C                                                           |
|                                                                            | Munduli                       | 7.7     | 8.8      | 1.2       | 490             | 130                                   | <1.8                                         | C                                                           |
|                                                                            | Cuttack U/s                   | 8       | 7.7      | 1.3       | 460             | 78                                    | <1.8                                         | C                                                           |
|                                                                            | Cuttack D/s                   | 7.8     | 6.6      | 2.6       | 17000           | 3300                                  | 79                                           | NC                                                          |
|                                                                            | Cuttack FD/s                  | 7.9     | 7.9      | 1.7       | 1700            | 330                                   | 13                                           | C                                                           |
|                                                                            | Paradeep U/s                  | 7.4     | 6.6      | 1.4       | 130             | 23                                    | 5                                            | C                                                           |
|                                                                            | Paradeep D/s                  | 7.9     | 6.4      | 1.6       | 130             | 23                                    | 7                                            | C                                                           |
| 11. Bheden Along Bheden (Priority-V)                                       | Jharsuguda                    | 7.6     | 7.6      | 1.4       | 1100            | 220                                   | 5                                            | C                                                           |
| Bathing Water Quality (MOEF Notification G.S.R. No. 742(E) Dt. 25.09.2000) |                               | 6.5-8.5 | 5.0, min | 3.0, max  | -               | 500 (Desirable)<br>2500 (permissible) | 100 (Desirable)<br>500 (Maximum Permissible) |                                                             |

**Water quality of Tributaries of Mahanadi River (February, 2023)**

| Name of river                                                              | Name of Monitoring Station | pH      | DO, mg/L | BOD, mg/L | TC, MPN/ 100 mL | FC, MPN/ 100 mL                       | FS, MPN/ 100 mL                              | Water Quality Status (Conforming (C) / Non-Conforming (NC)) |
|----------------------------------------------------------------------------|----------------------------|---------|----------|-----------|-----------------|---------------------------------------|----------------------------------------------|-------------------------------------------------------------|
| Ib River                                                                   | Sundargarh                 | 7.2     | 6.2      | 1.2       | 1700            | 490                                   | NA                                           | C                                                           |
|                                                                            | Jharsuguda                 | 7.8     | 8.2      | 1.1       | 2400            | 790                                   | NA                                           | C                                                           |
|                                                                            | Brajrajnagar U/S           | 7.7     | 7.8      | 1.3       | 1300            | 330                                   | NA                                           | C                                                           |
|                                                                            | Brajrajnagar D/S           | 7.8     | 8        | 1.5       | 2800            | 940                                   | NA                                           | C                                                           |
| Ong River                                                                  | Dharuakhaman               | 8.2     | 7.6      | 1.2       | 240             | 79                                    | NA                                           | C                                                           |
| Tel River                                                                  | Monmunda                   | 8.1     | 7.4      | 1.3       | 130             | 49                                    | NA                                           | C                                                           |
| Bathing Water Quality (MOEF Notification G.S.R. No. 742(E) Dt. 25.09.2000) |                            | 6.5-8.5 | 5.0, min | 3.0, max  | -               | 500 (Desirable)<br>2500 (permissible) | 100 (Desirable)<br>500 (Maximum Permissible) |                                                             |

**NA – Not Analysed**

## Ground Water quality

| Stn Name                                                             | Month         | pH      | BOD,<br>mg/L | Nitrate-<br>mg/L | TC, MPN/<br>100 mL | FC, MPN/<br>100 mL |
|----------------------------------------------------------------------|---------------|---------|--------------|------------------|--------------------|--------------------|
| <b>Sambalpur town Along Mahanadi River</b>                           |               |         |              |                  |                    |                    |
| Near Panthanivas                                                     | November,2022 | 7.1     | < 1.0        | 5.964            | <1.8               | <1.8               |
| Near Railway station                                                 | November,2022 | 7.3     | < 1.0        | 9.513            | <1.8               | <1.8               |
| Near VSS Medical College, Burla                                      | November,2022 | 7.2     | < 1.0        | 0.818            | <1.8               | <1.8               |
| <b>Sonepur town Along Mahanadi River</b>                             |               |         |              |                  |                    |                    |
| Near District Head Quarter Hospital, Sonepur                         | November,2022 | 7.8     | < 1.0        | 18.075           | <1.8               | <1.8               |
| Near Gundicha temple of Tentelghat, Sonepur                          | November,2022 | 8.0     | < 1.0        | 19.318           | <1.8               | <1.8               |
| <b>Paradeep town Along Mahanadi River</b>                            |               |         |              |                  |                    |                    |
| Badapadia market complex                                             | October,2022  | 8.3     | 1.4          | 15.345           | <1.8               | <1.8               |
| Musadiha                                                             | October,2022  | 7.8     | 1.5          | 16.053           | <1.8               | <1.8               |
|                                                                      |               |         |              |                  |                    |                    |
| <b>Jharsuguda town in the catchment of Bheden river and Ib river</b> |               |         |              |                  |                    |                    |
| Bhurkhamunda                                                         | October,2022  | 7.2     | < 1.0        | 1.804            | <1.8               | <1.8               |
| Badamal Industrial Estate                                            | October,2022  | 6.8     | < 1.0        | 9.441            | <1.8               | <1.8               |
| Budhipadar                                                           | October,2022  | 6.7     | < 1.0        | 15.345           | <1.8               | <1.8               |
| Brajarajnagar Mining belt                                            | October,2022  | 6.6     | < 1.0        | 19.995           | <1.8               | <1.8               |
| Rampur area (Water tank)                                             | October,2022  | 6.6     | < 1.0        | 3.675            | <1.8               | <1.8               |
| Ib thermal power station                                             | October,2022  | 6.8     | < 1.0        | 2.147            | <1.8               | <1.8               |
| Belpahar area                                                        | October,2022  | 7.1     | < 1.0        | 2.790            | 540                | 350                |
| Drinking water Specification (IS : 10500:2012) Desirable limit       |               | 6.5-8.5 | -            | 45               | Absent             | Absent             |

Ground water is monitored only during April/ May and October/November of each year

**Polluted River stretch: February, 2023**

| Name of polluted river stretch                                             | Name of Monitoring Station | pH      | DO, mg/L | BOD, mg/L | TC, MPN/ 100 mL | FC, MPN/ 100 mL                       | FS, MPN/ 100 mL                              | Water Quality Status (Conforming (C) / Non-Conforming (NC)) |
|----------------------------------------------------------------------------|----------------------------|---------|----------|-----------|-----------------|---------------------------------------|----------------------------------------------|-------------------------------------------------------------|
| 12. Mangala (Along Puri) <b>(Priority-V)</b>                               | Mangala D/s at Golasahi    | 7.9     | 5.8      | 2.8       | 3300            | 1100                                  | 22                                           | C                                                           |
| 13. Luna (Along Bijipur, Puri) <b>(Priority-V)</b>                         | Luna at Bijipur            | 7.7     | 7.2      | 1.3       | 2200            | 330                                   | 17                                           | C                                                           |
| 14. Ratnachira (Along Sakhigopal, Puri) <b>(Priority-V)</b>                | Kumardihi                  | 7.5     | 7.3      | 1.5       | 1300            | 330                                   | 8                                            | C                                                           |
| Bathing Water Quality (MOEF Notification G.S.R. No. 742(E) Dt. 25.09.2000) |                            | 6.5-8.5 | 5.0, min | 3.0, max  | -               | 500 (Desirable)<br>2500 (permissible) | 100 (Desirable)<br>500 (Maximum Permissible) |                                                             |

**Ground Water quality of Puri town along Mangala river**

| Stn Name                                                             | Month         | pH             | BOD, mg/L | Nitrate-mg/L | TC, MPN/ 100 mL | FC, MPN/ 100 mL |
|----------------------------------------------------------------------|---------------|----------------|-----------|--------------|-----------------|-----------------|
| Hospital-Bus stand-Mausima temple area                               | October, 2022 | 7.5            | < 1.0     | 1.643        | <1.8            | <1.8            |
| Near Jagannath Temple,                                               | October, 2022 | 7.5            | 1.7       | 1.412        | 220             | 33              |
| Near Sea Beach                                                       | October, 2022 | 7.3            | 1.6       | 43.081       | <1.8            | <1.8            |
| Baliapanda                                                           | October, 2022 | 8.0            | < 1.0     | 19.016       | <1.8            | <1.8            |
| <b>Drinking water Specification (IS : 10500:2012)Desirable limit</b> |               | <b>6.5-8.5</b> | <b>-</b>  | <b>45</b>    | <b>Absent</b>   | <b>Absent</b>   |

Ground water is monitored only during April and October of each year

**Characteristic of Drain falling on Mangala River (February, 2023)**

| Sl. No. | Station Name                               | Parameters |           |           |           |           |    |
|---------|--------------------------------------------|------------|-----------|-----------|-----------|-----------|----|
|         |                                            | pH         | BOD, mg/l | COD, mg/l | TSS, mg/l | TC        | FC |
|         |                                            |            |           |           |           | MPN/100ml |    |
| 1       | Outlet of STP, Puri at Mangalaghat 15 MLD) | 7.9        | 4.5       | 36.0      | 53.0      | 130       | 45 |

**Polluted River stretch: February, 2023**

| Name of polluted river stretch                    | Name of Monitoring Station | pH  | DO, mg/L | BOD, mg/L | TC, MPN/ 100 mL | FC, MPN/ 100 mL | FS, MPN/ 100 mL | Water Quality Status (Conforming (C) / Non-Conforming (NC)) |
|---------------------------------------------------|----------------------------|-----|----------|-----------|-----------------|-----------------|-----------------|-------------------------------------------------------------|
| 15. Nagavali (Jaykaypur to Rayagada) (Priority-V) | Jaykaypur D/s              | 7.1 | 6.5      | 1.2       | 2200            | 460             | 13              | C                                                           |
|                                                   | Rayagada D/s               | 7.3 | 7.1      | 1.4       | 1700            | 700             | 14              | C                                                           |

**Ground Water quality of Rayagada town along Nagavali river**

| Stn Name                                                       | Month         | pH      | BOD, mg/L | Nitrate-mg/L | TC, MPN/ 100 mL | FC, MPN/ 100 mL |
|----------------------------------------------------------------|---------------|---------|-----------|--------------|-----------------|-----------------|
| Kasturinagar, Rayagada                                         | October, 2022 | 7.4     | < 1.0     | 14.437       | <1.8            | <1.8            |
| Within the premises of Badelapulama Temple, Rayagada           | October, 2022 | 7.1     | < 1.0     | 20.530       | <1.8            | <1.8            |
| Drinking water Specification (IS : 10500:2012) Desirable limit |               | 6.5-8.5 | -         | 45           | Absent          | Absent          |

Ground water is monitored only during April and October of each year

**Polluted River stretch: February, 2023**

| Name of polluted river stretch                                             | Name of Monitoring Station | pH      | DO, mg/L | BOD, mg/L | TC, MPN/ 100 mL | FC, MPN/ 100 mL                    | FS, MPN/ 100 mL                           | Water Quality Status (Conforming (C) / Non-Conforming (NC)) |
|----------------------------------------------------------------------------|----------------------------|---------|----------|-----------|-----------------|------------------------------------|-------------------------------------------|-------------------------------------------------------------|
| 16. Budhabalanga (Mahulia to Baripada) (Priority-V)                        | Baripada D/s               | 7.9     | 7.6      | 2.1       | 3500            | 940                                | 11                                        | C                                                           |
| Bathing Water Quality (MOEF Notification G.S.R. No. 742(E) Dt. 25.09.2000) |                            | 6.5-8.5 | 5.0, min | 3.0, max  | -               | 500 (Desirable) 2500 (permissible) | 100 (Desirable) 500 (Maximum Permissible) |                                                             |

No Ground water quality monitoring in Baripada town by State Pollution Control Board, Odisha

**Polluted River stretch: February, 2023**

| Name of polluted river stretch                                             | Name of Monitoring Station | pH      | DO, mg/L | BOD, mg/L | TC, MPN/ 100 mL | FC, MPN/ 100 mL                       | FS, MPN/ 100 mL                              | Water Quality Status (Conforming (C) / Non-Conforming (NC)) |
|----------------------------------------------------------------------------|----------------------------|---------|----------|-----------|-----------------|---------------------------------------|----------------------------------------------|-------------------------------------------------------------|
| 17. Kusumi Along Tangi <b>(Priority-V)</b>                                 | Along Tangi                | 7.1     | 6.9      | 1.2       | 2400            | 790                                   | 23                                           | C                                                           |
| Bathing Water Quality (MOEF Notification G.S.R. No. 742(E) Dt. 25.09.2000) |                            | 6.5-8.5 | 5.0, min | 3.0, max  | -               | 500 (Desirable)<br>2500 (permissible) | 100 (Desirable)<br>500 (Maximum Permissible) |                                                             |

No Ground water quality monitoring in Tangi town by State Pollution Control Board, Odisha

**Polluted River stretch : February, 2023**

| Name of polluted river stretch                                             | Name of Monitoring Station | pH      | DO, mg/L | BOD, mg/L | TC, MPN/ 100 mL | FC, MPN/ 100 mL                       | FS, MPN/ 100 mL                              | Water Quality Status (Conforming (C) / Non-Conforming (NC)) |
|----------------------------------------------------------------------------|----------------------------|---------|----------|-----------|-----------------|---------------------------------------|----------------------------------------------|-------------------------------------------------------------|
| 18. Rushikulya along Pratappur to Ganjam <b>(Priority-V)</b>               | Madhopur                   | 8.5     | 7.7      | 1.1       | 330             | 130                                   | 5                                            | C                                                           |
|                                                                            | Potagarh                   | 8.3     | 7.8      | 1.2       | 1700            | 330                                   | 13                                           | C                                                           |
| 19. Sabulia Along Jagannathpatna, Rambha <b>(Priority-V)</b>               | Jagannathpatna, Rambha     | 7.5     | 6.9      | 1.1       | 4700            | 2200                                  | 33                                           | C                                                           |
| Bathing Water Quality (MOEF Notification G.S.R. No. 742(E) Dt. 25.09.2000) |                            | 6.5-8.5 | 5.0, min | 3.0, max  | -               | 500 (Desirable)<br>2500 (permissible) | 100 (Desirable)<br>500 (Maximum Permissible) |                                                             |

**Ground Water quality of Berhampur town in the catchment of Rushikulya River**

| Stn Name                                                          | Month          | pH      | BOD, mg/L | Nitrate-mg/L | TC, MPN/ 100 mL | FC, MPN/ 100 mL |
|-------------------------------------------------------------------|----------------|---------|-----------|--------------|-----------------|-----------------|
| Near MKCG Medical College                                         | November, 2022 | 8.2     | < 1.0     | 15.783       | <1.8            | <1.8            |
| Badabazar                                                         | November, 2022 | 7.5     | < 1.0     | 8.436        | <1.8            | <1.8            |
| Railway station                                                   | November, 2022 | 7.6     | < 1.0     | 8.269        | <1.8            | <1.8            |
| Bus stand                                                         | November, 2022 | 7.6     | < 1.0     | 3.150        | <1.8            | <1.8            |
| Drinking water Specification (IS : 10500:2012)<br>Desirable limit |                | 6.5-8.5 | -         | 45           | Absent          | Absent          |

Ground water is monitored only during April and October/November of each year

**Status of Polluted River stretches in the State of Odisha during the period 2017-2022 with Maximum BOD values during the year**

| Sl. No. | Polluted River Stretches identified by CPCB | Priority Category of Polluted River stretch |                      |                      |                      |                      |                      |                            | Remarks (During 2023)                               |
|---------|---------------------------------------------|---------------------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------------|-----------------------------------------------------|
|         |                                             | 2017 (BOD mg/L, max)                        | 2018 (BOD mg/L, max) | 2019 (BOD mg/L, max) | 2020 (BOD mg/L, max) | 2021 (BOD mg/L, max) | 2022 (BOD mg/L, max) | 2023 (Feb) (BOD mg/L, max) |                                                     |
| 1.      | Gangua River (Along Bhubaneswar)            | Priority-I (39.0)                           | Priority-I (70.8)    | Priority-I (39.2)    | Priority-III (19.9)  | Priority-IV (9.7)    | Priority-III (16.0)  | Priority-III (18.0)        | Priority has been reduced from I to III (Improved)  |
| 2       | Daya (Bhubaneswar to Bargarh)               | Priority-IV (7.3)                           | Priority-IV (7.4)    | Priority-IV (7.3)    | Priority-V (4.7)     | Priority-V (4.6)     | Priority-V (5.6)     | Priority-V (4.8)           | Priority has been reduced from IV to V (Improved)   |
| 3       | Brahmani (Rourkela to Biritol)              | Priority-V (6.0)                            | Priority-IV (7.6)    | Priority-V (5.3)     | Priority-IV (6.3)    | Priority-V (5.6)     | Priority-V (5.7)     | Priority-V (5.7)           | No Improvement                                      |
| 4       | Guradih nallah (Rourkela)                   | Priority-III (11.3)                         | Priority-IV (10.1)   | Priority-IV (8.5)    | Priority-IV (10.0)   | Priority-IV (9.3)    | Priority-IV (8.3)    | Priority-IV (8.0)          | Priority has been reduced from III to IV (Improved) |
| 5       | Mangala (Along Puri)                        | Priority-V (5.7)                            | Priority-V (5.8)     | Priority-IV (7.4)    | Priority-V (4.6)     | Priority-V (4.9)     | Priority-V (4.4)     | Clean (2.8)                | Clean (Improved)                                    |
| 6       | Nagavali (Jaykaypur to Rayagada)            | Priority-V (3.5)                            | Clean (2.8)          | Clean (2.2)          | Clean (2.1)          | Clean (2.1)          | Clean (2.4)          | Clean (1.4)                | Clean (Improved)                                    |
| 7       | Kathajodi (Cuttack to Urali)                | Priority-III (11.2)                         | Priority-V (5.7)     | Priority-V (3.9)     | Priority-V (3.6)     | Priority-V (4.1)     | Priority-V (4.4)     | Priority-V (3.8)           | Priority has been reduced from III to V (Improved)  |
| 8       | Serua (Khandaeta to Sankhatrasa)            | Priority-V (4.8)                            | Priority-V (5.5)     | Priority-V (3.1)     | Priority-V (3.8)     | Priority-V (3.5)     | Priority-V (4.2)     | Priority-V (3.6)           | No Improvement                                      |
| 9       | Ratnachira (Along Bhubaneswar, Puri)        | Priority-V (3.3)                            | Priority-V (3.5)     | Clean (2.7)          | Clean (1.7)          | Clean (2.4)          | Clean (2.4)          | Clean (1.5)                | Clean (Improved)                                    |
| 10      | Nandira Jhor (D/s of Talcher)               | Priority-III (13.0)                         | Priority-V (3.5)     | Clean (1.9)          | Clean (1.9)          | Clean (1.9)          | Clean (1.8)          | Clean (1.5)                | Clean (Improved)                                    |
| 11      | Kuakhai (Along Bhubaneswar)                 | Priority-IV (7.7)                           | Clean (1.6)          | Clean (2.8)          | Clean (1.8)          | Clean (1.9)          | Clean (1.9)          | Clean (1.4)                | Clean (Improved)                                    |
| 12      | Mahanadi (Sambalpur to Paradeep)            | Priority-V (3.2)                            | Clean (2.3)          | Clean (2.3)          | Clean (2.7)          | Clean (2.4)          | Clean (2.6)          | Clean (2.6)                | Clean (Improved)                                    |
| 13      | Rushikulya (Pratappur to Ganjam)            | Priority-V (3.4)                            | Priority-V (3.7)     | Clean (2.6)          | Clean (2.1)          | Clean (2.6)          | Clean (2.0)          | Clean (1.2)                | Clean (Improved)                                    |
| 14      | Banguru nallah (Along Talcher, Rengali)     | Priority-V (3.2)                            | Priority-V (3.9)     | Clean (1.9)          | Clean (1.6)          | Clean (1.9)          | Clean (2.0)          | Clean (1.6)                | Clean (Improved)                                    |
| 15      | Bheden (Along Bheden)                       | Priority-V (3.6)                            | Clean (2.8)          | Clean (2.0)          | Clean (1.8)          | Clean (1.5)          | Clean (2.2)          | Clean (1.4)                | Clean (Improved)                                    |
| 16      | Kusumi (Along Talcher)                      | Priority-V (3.2)                            | Clean (1.7)          | Clean (2.6)          | Clean (2.0)          | Clean (2.0)          | Clean (1.6)          | Clean (1.2)                | Clean (Improved)                                    |
| 17      | Nuna (Along Bijipur)                        | Priority-V (3.1)                            | Clean (2.7)          | Clean (2.5)          | Clean (1.8)          | Clean (1.6)          | Clean (2.3)          | Clean (1.3)                | Clean (Improved)                                    |
| 18      | Sabulia (Jagannathpatna, Rambha)            | Priority-V (5.0)                            | Clean (2.4)          | Clean (2.2)          | Clean (1.9)          | Clean (2.0)          | Clean (1.8)          | Clean (1.1)                | Clean (Improved)                                    |
| 19      | Budhabalanga (Mahulia to Baripada)          | Priority-V (3.5)                            | Clean (2.8)          | Clean (1.6)          | Clean (1.9)          | Clean (1.8)          | Clean (2.0)          | Clean (2.1)                | Clean (Improved)                                    |

**Summary of Number of Polluted River Stretches under Different Category during the Period 2017-2023**

| Category       | No. of polluted River stretch (2017) | No. of polluted River stretch (2018) | No. of polluted River stretch (2019) | No. of polluted River stretch (2020) | No. of polluted River stretch (2021) | No. of polluted River stretch (2022) | No. of polluted River stretch (Feb-2023) |
|----------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|------------------------------------------|
| Priority-I     | 1                                    | 1                                    | 1                                    | Nil                                  | Nil                                  | Nil                                  | Nil                                      |
| Priority-II    | Nil                                  | Nil                                  | Nil                                  | Nil                                  | Nil                                  | Nil                                  | Nil                                      |
| Priority-III   | 3                                    | Nil                                  | Nil                                  | 1                                    | Nil                                  | 1                                    | 1                                        |
| Priority-IV    | 2                                    | 3                                    | 3                                    | 2                                    | 2                                    | 1                                    | 1                                        |
| Priority-V     | 13                                   | 7                                    | 3                                    | 4                                    | 5                                    | 5                                    | 4                                        |
|                |                                      | 8 (Clean)                            | 12 (Clean)                           | 12 (Clean)                           | 12 (Clean)                           | 12 (Clean)                           | 13 (Clean)                               |
| <b>Total :</b> | <b>19</b>                            | <b>19</b>                            | <b>19</b>                            | <b>19</b>                            | <b>19</b>                            | <b>19</b>                            | <b>19</b>                                |

**N.B. Clean - BOD < 3 mg/L**

### Water quality of Rivers in Odisha during February,2023

**Total River water quality Monitoring Station: 129**

**No. of stations monitored: 129**

**No. of stations conforming to Bathing Water quality: 114**

**(a) Mahanadi River System**

| Name of River     | Sl. No. | Name of Monitoring Station    | pH  | DO, mg/L | BOD, mg/L | TC, MPN/ 100 mL | FC, MPN/ 100 mL | FS, MPN/ 100 mL | Water Quality Status (Conforming (C)/ Non-Conforming (NC)) |
|-------------------|---------|-------------------------------|-----|----------|-----------|-----------------|-----------------|-----------------|------------------------------------------------------------|
| Ib                | 1       | Sundargarh                    | 7.2 | 6.2      | 1.2       | 1700            | 490             | NA              | C                                                          |
|                   | 2       | Jharsuguda                    | 7.8 | 8.2      | 1.1       | 2400            | 790             | NA              | C                                                          |
|                   | 3       | Brajrajnagar U/S              | 7.7 | 7.8      | 1.3       | 1300            | 330             | NA              | C                                                          |
|                   | 4       | Brajrajnagar D/S              | 7.8 | 8.0      | 1.5       | 2800            | 940             | NA              | C                                                          |
| Bheden            | 5       | Jharsuguda                    | 7.6 | 7.6      | 1.4       | 1100            | 220             | 5               | C                                                          |
| Hirakud Reservoir | 6       | Hirakud                       | 7.2 | 8.0      | 1.2       | 490             | 130             | NA              | C                                                          |
| Mahanadi          | 7       | Sambalpur U/S                 | 7.1 | 7.8      | 1.2       | 1300            | 330             | NA              | C                                                          |
|                   | 8       | Sambalpur D/S                 | 7.5 | 7.4      | 1.6       | 1700            | 490             | <1.8            | C                                                          |
|                   | 9       | Sambalpur FD/S at Shankarmath | 7.2 | 7.6      | 1.4       | 2400            | 490             | <1.8            | C                                                          |
|                   | 10      | Sambalpur FD/S at Huma        | 7.4 | 7.8      | 1.5       | 1300            | 330             | <1.8            | C                                                          |
|                   | 11      | Power Channel U/S             | 7.1 | 7.6      | 1.1       | 330             | 45              | NA              | C                                                          |
|                   | 12      | Power Channel D/S             | 7.1 | 7.8      | 1.5       | 1100            | 330             | NA              | C                                                          |
|                   | 13      | Sonepur U/S                   | 7.9 | 7.8      | 1.2       | 220             | 33              | <1.8            | C                                                          |
|                   | 14      | Sonepur D/S                   | 7.7 | 7.6      | 1.4       | 330             | 130             | <1.8            | C                                                          |
|                   | 15      | Tikarpada                     | 7.4 | 8.2      | 1.5       | 130             | 13              | <1.8            | C                                                          |
|                   | 16      | Narasinghpur                  | 7.6 | 8.2      | 1.2       | 490             | 78              | <1.8            | C                                                          |
|                   | 17      | Munduli                       | 7.7 | 8.8      | 1.2       | 490             | 130             | <1.8            | C                                                          |
|                   | 18      | Cuttack U/s                   | 8.0 | 7.7      | 1.3       | 460             | 78              | <1.8            | C                                                          |
|                   | 19      | Cuttack D/s                   | 7.8 | 6.6      | 2.6       | 17000           | 3300            | 79              | NC                                                         |
|                   | 20      | Cuttack FD/s                  | 7.9 | 7.9      | 1.7       | 1700            | 330             | 13              | C                                                          |
|                   | 21      | Paradeep U/S                  | 7.4 | 6.6      | 1.4       | 130             | 23              | 5               | C                                                          |
|                   | 22      | Paradeep D/S                  | 7.9 | 6.4      | 1.6       | 130             | 23              | 7               | C                                                          |
| Ong               | 23      | Dharuakhaman                  | 8.2 | 7.6      | 1.2       | 240             | 79              | NA              | C                                                          |
| Tel               | 24      | Monmunda                      | 8.1 | 7.4      | 1.3       | 130             | 49              | NA              | C                                                          |
| Kathajodi         | 25      | Cuttack U/s                   | 8.2 | 8.8      | 1.3       | 1700            | 490             | NA              | C                                                          |
|                   | 26      | Cuttack D/s                   | 8.1 | 8.8      | 3.8       | 160000          | 24000           | 170             | NC                                                         |
|                   | 27      | Cuttack FD/s at Mattagajpur   | 7.9 | 7.5      | 3.2       | 4900            | 1300            | 49              | NC                                                         |
|                   | 28      | Cuttack FFD/s at Kamasasan    | 8.0 | 8.3      | 2.4       | 4700            | 2200            | NA              | C                                                          |

| Name of River                                                                     | Sl. No. | Name of Monitoring Station   | pH             | DO, mg/L        | BOD, mg/L       | TC, MPN/ 100 mL | FC, MPN/ 100 mL         | FS, MPN/ 100 mL        | Water Quality Status (Conforming (C)/ Non-Conforming (NC)) |
|-----------------------------------------------------------------------------------|---------|------------------------------|----------------|-----------------|-----------------|-----------------|-------------------------|------------------------|------------------------------------------------------------|
| Serua                                                                             | 29      | Cuttack FD/s at Sankhatrasa  | 7.9            | 7.2             | 3.6             | 160000          | 54000                   | 79                     | NC                                                         |
| Kuakhai                                                                           | 30      | Bhubaneswar FU/s             | 7.7            | 10.3            | 1.3             | 1300            | 790                     | 8                      | C                                                          |
|                                                                                   | 31      | Bhubaneswar U/s              | 7.8            | 9.0             | 1.4             | 2400            | 1100                    | 17                     | C                                                          |
| Daya                                                                              | 32      | Gelapur                      | 8.4            | 9.4             | 1.6             | 1100            | 330                     | 49                     | C                                                          |
|                                                                                   | 33      | Bhubaneswar D/s              | 7.4            | 3.4             | 4.8             | 92000           | 54000                   | 170                    | NC                                                         |
|                                                                                   | 34      | Bhubaneswar FD/s             | 7.5            | 3.8             | 4.3             | 54000           | 54000                   | 130                    | NC                                                         |
|                                                                                   | 35      | Kanas                        | 7.1            | 6.6             | 1.9             | 1300            | 220                     | 5                      | C                                                          |
| Birupa                                                                            | 36      | Choudwar                     | 8.1            | 7.9             | 1.6             | 2400            | 330                     | NA                     | C                                                          |
| Gangua nallah                                                                     | 37      | Rajdhani Engineering College | 6.9            | 1.1             | 15              | >160000         | >160000                 | 540                    | NC                                                         |
|                                                                                   | 38      | Palasuni                     | 7.1            | 0.8             | 18              | >160000         | >160000                 | 350                    | NC                                                         |
|                                                                                   | 39      | Samantarapur                 | 7.1            | 0.4             | 16              | >160000         | >160000                 | 170                    | NC                                                         |
|                                                                                   | 40      | Vadimula                     | 7.3            | 1.8             | 10              | >160000         | >160000                 | 240                    | NC                                                         |
| Kushabhadra                                                                       | 41      | Bhingarpur                   | 7.6            | 8.0             | 1.4             | 4900            | 1100                    | NA                     | C                                                          |
|                                                                                   | 42      | Nimapara                     | 7.2            | 7.8             | 1.2             | 7900            | 2300                    | NA                     | C                                                          |
|                                                                                   | 43      | Gop                          | 7.2            | 6.9             | 1.7             | 4900            | 2200                    | NA                     | C                                                          |
| Gobari                                                                            | 44      | Kendrapada U/s               | 7.8            | 5.0             | 1.2             | 2400            | 490                     | NA                     | C                                                          |
|                                                                                   | 45      | Kendrapada D/s               | 7.7            | 4.6             | 1.8             | 4700            | 1100                    | NA                     | C                                                          |
| Mangala                                                                           | 46      | Mangala U/s at Malatipatpur  | 8.2            | 8.2             | 1.3             | 2400            | 790                     | NA                     | C                                                          |
|                                                                                   | 47      | Mangala D/s at Golasahi      | 7.9            | 5.8             | 2.8             | 3300            | 1100                    | 22                     | C                                                          |
| Bhargavi                                                                          | 48      | Chandanpur                   | 8.3            | 8.6             | 1.2             | 4700            | 1300                    | NA                     | C                                                          |
| Devi                                                                              | 49      | Machhagaon                   | 7.6            | 6.8             | 1.2             | 790             | 130                     | NA                     | C                                                          |
| Luna                                                                              | 50      | Luna at Bijipur              | 7.7            | 7.2             | 1.3             | 2200            | 330                     | 17                     | C                                                          |
| Sabulia                                                                           | 51      | Rambha, Jagatnnathpatna      | 7.5            | 6.9             | 1.1             | 4700            | 2200                    | 33                     | C                                                          |
| Kusumi                                                                            | 52      | Tangi                        | 7.1            | 6.9             | 1.2             | 2400            | 790                     | 23                     | C                                                          |
| Kansari                                                                           | 53      | Banapur                      | 7.7            | 7.3             | 1.1             | 3300            | 1300                    | NA                     | C                                                          |
| Badasankha                                                                        | 54      | Langalaeswar                 | 7.8            | 8.5             | 1.5             | 1300            | 330                     | NA                     | C                                                          |
| Ratnachira                                                                        | 55      | Kumardihi                    | 7.5            | 7.3             | 1.5             | 1300            | 330                     | 8                      | C                                                          |
| <b>Bathing Water Quality (MOEF Notification G.S.R. No. 742(E) Dt. 25.09.2000)</b> |         |                              | <b>6.5-8.5</b> | <b>5.0, min</b> | <b>3.0, max</b> | <b>-</b>        | <b>500 (D) 2500 (P)</b> | <b>100 (D) 500 (P)</b> | <b>-</b>                                                   |

NA : Not analysed

D : Desirable P : Permissible

**(B) Brahmani River system**

| Name of River  | Sl. No. | Name of Monitoring Station                       | pH  | DO, mg/L | BOD, mg/L | TC, MPN/ 100 mL | FC, MPN/ 100 mL | FS, MPN/ 100 mL | Water Quality Status (Conforming (C)/ Non-Conforming (NC)) |
|----------------|---------|--------------------------------------------------|-----|----------|-----------|-----------------|-----------------|-----------------|------------------------------------------------------------|
| Brahmani       | 1       | Panposh U/S                                      | 7.2 | 5.6      | 1.1       | 2400            | 490             | NA              | C                                                          |
|                | 2       | Panposh D/S                                      | 7.4 | 2.4      | 5.7       | 54000           | 7900            | 33              | NC                                                         |
|                | 3       | Rourkela D/S at Jalda                            | 7.5 | 2.8      | 5.3       | 35000           | 3300            | 49              | NC                                                         |
|                | 4       | Rourkela FD/s at Attaghat                        | 8.5 | 3.2      | 4.8       | 1700            | 330             | 8               | NC                                                         |
|                | 5       | Rourkela FFD/s at Biritola                       | 8.1 | 5.8      | 2.8       | 2400            | 490             | 14              | C                                                          |
|                | 6       | Bonaigarh                                        | 7.9 | 6.9      | 1.3       | 2400            | 330             | NA              | C                                                          |
|                | 7       | Rengali                                          | 7.2 | 9.8      | 1.2       | 490             | 130             | NA              | C                                                          |
|                | 8       | Samal                                            | 7.5 | 10.2     | 1.1       | 790             | 230             | NA              | C                                                          |
|                | 9       | Talcher FU/S                                     | 7.4 | 9.8      | 1.5       | 790             | 130             | NA              | C                                                          |
|                | 10      | Talcher U/s                                      | 7.5 | 8.8      | 1.2       | 1300            | 230             | NA              | C                                                          |
|                | 11      | Mandapal                                         | 7.4 | 8.6      | 1.8       | 28000           | 13000           | 79              | NC                                                         |
|                | 12      | Talcher D/S                                      | 7.4 | 8.4      | 1.4       | 2400            | 790             | NA              | C                                                          |
|                | 13      | Talcher FD/S                                     | 7.3 | 9.2      | 1.3       | 330             | 78              | NA              | C                                                          |
|                | 14      | Dhenkanal U/s                                    | 7.3 | 9        | 1.6       | 1400            | 330             | NA              | C                                                          |
|                | 15      | Dhenkanal D/s                                    | 7.5 | 10       | 1.5       | 2200            | 330             | <1.8            | C                                                          |
|                | 16      | Bhuban                                           | 7.4 | 7.4      | 1.9       | 2400            | 790             | NA              | C                                                          |
|                | 17      | Kabatabandha                                     | 7.3 | 8.6      | 1.1       | 490             | 110             | NA              | C                                                          |
|                | 18      | Dharmasala U/s                                   | 7.3 | 8.8      | 1.4       | 3500            | 940             | NA              | C                                                          |
|                | 19      | Dharmasala D/s                                   | 7.4 | 8.4      | 1.1       | 2200            | 490             | NA              | C                                                          |
|                | 20      | Pottamundai                                      | 7.1 | 8.9      | 1.1       | 1300            | 330             | NA              | C                                                          |
| Kharasrota     | 21      | Khanditara                                       | 7.3 | 8.6      | 1.2       | 2400            | 790             | NA              | C                                                          |
|                | 22      | Binjharpur                                       | 7.9 | 8.5      | 1.5       | 3500            | 1300            | NA              | C                                                          |
|                | 23      | Ali                                              | 7.9 | 7.0      | 1.1       | 1400            | 330             | NA              | C                                                          |
| Nandira jhor   | 24      | Nandira U/s                                      | 7.8 | 8.3      | 1.1       | 490             | 45              | NA              | C                                                          |
|                | 25      | Nandira D/s                                      | 8.5 | 8.2      | 1.9       | 1700            | 490             | NA              | C                                                          |
| Kisindajhor    | 26      | Kisindajhor                                      | 8.3 | 8.2      | 1.3       | 1100            | 230             | NA              | C                                                          |
| Sankh          | 27      | Sankh U/s                                        | 7.1 | 6.1      | 1.1       | 2800            | 790             | NA              | C                                                          |
| Koel           | 28      | Koel U/s                                         | 7.1 | 5.9      | 1.3       | 2200            | 330             | NA              | C                                                          |
| Guradih nallah | 28      | Rourkela (before confluence with Brahmani river) | 7.2 | 1.2      | 8.0       | 24000           | 7900            | 110             | NC                                                         |
| Badajhor       | 30      | Badajhor                                         | 7.6 | 8.4      | 1.1       | 1300            | 230             | NA              | C                                                          |
| Damsala        | 31      | Dayanabil                                        | 7.8 | 8.1      | 1.2       | 2400            | 490             | NA              | C                                                          |
| Gondanallah    | 32      | Marthapur                                        | 7.5 | 8.6      | 2.0       | 2800            | 330             | NA              | C                                                          |
| Karo           | 33      | Barbil                                           | 6.9 | 7.1      | 1.1       | 2400            | 330             | NA              | C                                                          |
| Lingira        | 34      | Lingira U/s                                      | 8.1 | 8.2      | 1.3       | 1700            | 330             | NA              | C                                                          |
|                | 35      | Lingira D/s                                      | 7.9 | 8.0      | 1.5       | 2400            | 490             | NA              | C                                                          |

| Name of River                                                                               | Sl. No. | Name of Monitoring Station | pH             | DO, mg/L        | BOD, mg/L       | TC, MPN/ 100 mL | FC, MPN/ 100 mL                   | FS, MPN/ 100 mL                  | Water Quality Status (Conforming (C)/ Non-Conforming (NC)) |
|---------------------------------------------------------------------------------------------|---------|----------------------------|----------------|-----------------|-----------------|-----------------|-----------------------------------|----------------------------------|------------------------------------------------------------|
| Ramiala                                                                                     | 36      | Kamakhyanagar              | 7.9            | 8.2             | 1.9             | 490             | 130                               | NA                               | C                                                          |
| Bangurunallah                                                                               | 37      | Bangurunallah              | 7.7            | 9               | 1.6             | 1300            | 330                               | 13                               | C                                                          |
| Singadajhor                                                                                 | 38      | Singadajhor                | 7.9            | 9.4             | 1.2             | 1300            | 220                               | NA                               | C                                                          |
| Tikira                                                                                      | 39      | Kaniha U/s                 | 8              | 9               | 1.1             | 2200            | 490                               | NA                               | C                                                          |
|                                                                                             | 40      | Kaniha D/s                 | 8              | 10              | 1.4             | 2400            | 790                               | NA                               | C                                                          |
| Bangurusingadajhor                                                                          | 41      | Bangurusingadajhor         | 7.9            | 9.6             | 1.1             | 4900            | 1700                              | NA                               | C                                                          |
| <b>Bathing Water Quality</b><br><b>(MOEF Notification G.S.R. No. 742(E) Dt. 25.09.2000)</b> |         |                            | <b>6.5-8.5</b> | <b>5.0, min</b> | <b>3.0, max</b> | <b>-</b>        | <b>500 (D)</b><br><b>2500 (P)</b> | <b>100 (D)</b><br><b>500 (P)</b> | <b>-</b>                                                   |

**(C) Baitarani River system**

| Name of River                                                                               | Sl. No. | Name of Monitoring Station | pH             | DO, mg/L        | BOD, mg/L       | TC, MPN/ 100 mL | FC, MPN/ 100 mL                   | FS, MPN/ 100 mL                  | Water Quality Status (Conforming (C)/ Non-Conforming (NC)) |
|---------------------------------------------------------------------------------------------|---------|----------------------------|----------------|-----------------|-----------------|-----------------|-----------------------------------|----------------------------------|------------------------------------------------------------|
| Kundra nallah                                                                               | 1       | Joda                       | 7.1            | 6.5             | 1.5             | 2800            | 1100                              | NA                               | C                                                          |
| Kusei                                                                                       | 2       | Deogaon                    | 7.8            | 8.1             | 1.1             | 4900            | 1300                              | NA                               | C                                                          |
| Baitarani                                                                                   | 3       | Naigarh                    | 6.8            | 7.3             | 1.2             | 490             | 110                               | NA                               | C                                                          |
|                                                                                             | 4       | Unchabali                  | 6.8            | 7.0             | 1.1             | 490             | 130                               | NA                               | C                                                          |
|                                                                                             | 5       | Champua                    | 6.9            | 6.7             | 1.3             | 330             | 130                               | NA                               | C                                                          |
|                                                                                             | 6       | Tribindha                  | 7.1            | 6.5             | 1.1             | 790             | 170                               | NA                               | C                                                          |
|                                                                                             | 7       | Joda                       | 7.2            | 7.2             | 1.1             | 1700            | 330                               | NA                               | C                                                          |
|                                                                                             | 8       | Anandpur                   | 7.2            | 7.8             | 1.2             | 2200            | 490                               | NA                               | C                                                          |
|                                                                                             | 9       | Jajpur                     | 7.7            | 6.9             | 1.7             | 4900            | 2200                              | NA                               | C                                                          |
|                                                                                             | 10      | Chandbali U/s              | 7.8            | 6.0             | 1.3             | 1300            | 490                               | NA                               | C                                                          |
|                                                                                             | 11      | Chandbali D/s              | 7.9            | 5.6             | 1.6             | 2400            | 790                               | NA                               | C                                                          |
| Dhamra                                                                                      | 12      | Dhamra                     | 8.0            | 6.4             | 1.8             | 2400            | 1300                              | NA                               | C                                                          |
| Salandi                                                                                     | 13      | Bhadrak U/s                | 8.3            | 6.8             | 1.2             | 1100            | 220                               | NA                               | C                                                          |
|                                                                                             | 14      | Bhadrak D/s                | 8.0            | 6.4             | 1.5             | 1700            | 330                               | NA                               | C                                                          |
| <b>Bathing Water Quality</b><br><b>(MOEF Notification G.S.R. No. 742(E) Dt. 25.09.2000)</b> |         |                            | <b>6.5-8.5</b> | <b>5.0, min</b> | <b>3.0, max</b> | <b>-</b>        | <b>500 (D)</b><br><b>2500 (P)</b> | <b>100 (D)</b><br><b>500 (P)</b> | <b>-</b>                                                   |

NA : Not analysed

D : Desirable P : Permissible

**(D) Rushikulya River system**

| Name of River                                                                     | Sl. No. | Name of Monitoring Station | pH             | DO, mg/L        | BOD, mg/L       | TC, MPN/ 100 mL | FC, MPN/ 100 mL         | FS, MPN/ 100 mL        | Water Quality Status (Conforming (C)/ Non-Conforming (NC)) |
|-----------------------------------------------------------------------------------|---------|----------------------------|----------------|-----------------|-----------------|-----------------|-------------------------|------------------------|------------------------------------------------------------|
| Russelkunda Reservoir                                                             | 1       | Russelkunda Reservoir      | 7.1            | 8.7             | 2.7             | 3500            | 2200                    | NA                     | C                                                          |
| Badanadi                                                                          | 2       | Aska                       | 8.5            | 9.4             | 1.6             | 2200            | 330                     | NA                     | C                                                          |
| Rushikulya                                                                        | 3       | Aska                       | 8.4            | 8.2             | 1.3             | 1100            | 230                     | NA                     | C                                                          |
|                                                                                   | 4       | Nalabanta                  | 8.4            | 9.5             | 1.1             | 790             | 170                     | NA                     | C                                                          |
|                                                                                   | 5       | Madhopur                   | 8.5            | 7.7             | 1.1             | 330             | 130                     | 5                      | C                                                          |
|                                                                                   | 6       | Potagarh                   | 8.3            | 7.8             | 1.2             | 1700            | 330                     | 13                     | C                                                          |
| <b>Bathing Water Quality (MOEF Notification G.S.R. No. 742(E) Dt. 25.09.2000)</b> |         |                            | <b>6.5-8.5</b> | <b>5.0, min</b> | <b>3.0, max</b> | <b>-</b>        | <b>500 (D) 2500 (P)</b> | <b>100 (D) 500 (P)</b> | <b>-</b>                                                   |

**(E) Subarnarekha River system**

| Name of River                                                                     | Sl. No. | Name of Monitoring Station | pH             | DO, mg/L        | BOD, mg/L       | TC, MPN/ 100 mL | FC, MPN/ 100 mL         | FS, MPN/ 100 mL        | Water Quality Status (Conforming (C)/ Non-Conforming (NC)) |
|-----------------------------------------------------------------------------------|---------|----------------------------|----------------|-----------------|-----------------|-----------------|-------------------------|------------------------|------------------------------------------------------------|
| Subarnarekha                                                                      | 1       | Rajghat                    | 8.1            | 7.2             | 1.2             | 2400            | 490                     | NA                     | C                                                          |
| <b>Bathing Water Quality (MOEF Notification G.S.R. No. 742(E) Dt. 25.09.2000)</b> |         |                            | <b>6.5-8.5</b> | <b>5.0, min</b> | <b>3.0, max</b> | <b>-</b>        | <b>500 (D) 2500 (P)</b> | <b>100 (D) 500 (P)</b> | <b>-</b>                                                   |

**(F) Budhabalanga River system**

| Name of River                                                                     | Sl. No. | Name of Monitoring Station | pH             | DO, mg/L        | BOD, mg/L       | TC, MPN/ 100 mL | FC, MPN/ 100 mL         | FS, MPN/ 100 mL        | Water Quality Status (Conforming (C)/ Non-Conforming (NC)) |
|-----------------------------------------------------------------------------------|---------|----------------------------|----------------|-----------------|-----------------|-----------------|-------------------------|------------------------|------------------------------------------------------------|
| Budhabalanga                                                                      | 1       | Baripada D/s               | 7.9            | 7.6             | 2.1             | 3500            | 940                     | 11                     | C                                                          |
|                                                                                   | 2       | Balasore U/s               | 8.5            | 8.0             | 1.3             | 2200            | 340                     | NA                     | C                                                          |
|                                                                                   | 3       | Balasore D/s               | 8.5            | 8.4             | 1.6             | 1700            | 330                     | NA                     | C                                                          |
|                                                                                   | 4       | Hatiagond (Sona)           | 8.2            | 5.6             | 1.8             | 1400            | 270                     | NA                     | C                                                          |
| <b>Bathing Water Quality (MOEF Notification G.S.R. No. 742(E) Dt. 25.09.2000)</b> |         |                            | <b>6.5-8.5</b> | <b>5.0, min</b> | <b>3.0, max</b> | <b>-</b>        | <b>500 (D) 2500 (P)</b> | <b>100 (D) 500 (P)</b> | <b>-</b>                                                   |

NA : Not analysed

D : Desirable

P : Permissible

**(G) Bahuda River system**

| Name of River                                                                        | Sl. No. | Name of Monitoring Station | pH      | DO, mg/L | BOD, mg/L | TC, MPN/ 100 mL | FC, MPN/ 100 mL  | FS, MPN/ 100 mL | Water Quality Status (Conforming (C)/ Non-Conforming (NC)) |
|--------------------------------------------------------------------------------------|---------|----------------------------|---------|----------|-----------|-----------------|------------------|-----------------|------------------------------------------------------------|
| Bahuda                                                                               | 1       | Damodarpally               | 8.5     | 11.3     | 2.0       | 2800            | 700              | NA              | C                                                          |
| <b>Bathing Water Quality</b><br>(MOEF Notification G.S.R. No. 742(E) Dt. 25.09.2000) |         |                            | 6.5-8.5 | 5.0, min | 3.0, max  | -               | 500 (D) 2500 (P) | 100 (D) 500 (P) | -                                                          |

**(H) Nagavali River system**

| Name of River                                                                        | Sl. No. | Name of Monitoring Station | pH      | DO, mg/L | BOD, mg/L | TC, MPN/ 100 mL | FC, MPN/ 100 mL  | FS, MPN/ 100 mL | Water Quality Status (Conforming (C)/ Non-Conforming (NC)) |
|--------------------------------------------------------------------------------------|---------|----------------------------|---------|----------|-----------|-----------------|------------------|-----------------|------------------------------------------------------------|
| Nagavali                                                                             | 1       | Penta U/s                  | 7.1     | 7.2      | 1.1       | 790             | 130              | NA              | C                                                          |
|                                                                                      | 2       | Jaykaypur D/s              | 7.1     | 6.5      | 1.2       | 2200            | 460              | 13              | C                                                          |
|                                                                                      | 3       | Rayagada D/s               | 7.3     | 7.1      | 1.4       | 1700            | 700              | 14              | C                                                          |
| <b>Bathing Water Quality</b><br>(MOEF Notification G.S.R. No. 742(E) Dt. 25.09.2000) |         |                            | 6.5-8.5 | 5.0, min | 3.0, max  | -               | 500 (D) 2500 (P) | 100 (D) 500 (P) | -                                                          |

**(I) Vansadhara River system**

| Name of River                                                                        | Sl. No. | Name of Monitoring Station | pH      | DO, mg/L | BOD, mg/L | TC, MPN/ 100 mL | FC, MPN/ 100 mL  | FS, MPN/ 100 mL | Water Quality Status (Conforming (C)/ Non-Conforming (NC)) |
|--------------------------------------------------------------------------------------|---------|----------------------------|---------|----------|-----------|-----------------|------------------|-----------------|------------------------------------------------------------|
| Vansadhara                                                                           | 1       | Muniguda                   | 7.5     | 7.3      | 1.2       | 1300            | 170              | NA              | C                                                          |
|                                                                                      | 2       | Gunupur                    | 8.2     | 7.1      | 1.1       | 2800            | 1100             | NA              | C                                                          |
| <b>Bathing Water Quality</b><br>(MOEF Notification G.S.R. No. 742(E) Dt. 25.09.2000) |         |                            | 6.5-8.5 | 5.0, min | 3.0, max  | -               | 500 (D) 2500 (P) | 100 (D) 500 (P) | -                                                          |

NA. : Not analysed

D : Desirable P : Permissible

(J) Kolab River system

| Name of River                                                                        | Sl. No. | Name of Monitoring Station | pH      | DO, mg/L | BOD, mg/L | TC, MPN/ 100 mL | FC, MPN/ 100 mL     | FS, MPN/ 100 mL    | Water Quality Status (Conforming (C)/ Non-Conforming (NC)) |
|--------------------------------------------------------------------------------------|---------|----------------------------|---------|----------|-----------|-----------------|---------------------|--------------------|------------------------------------------------------------|
| Kerandi                                                                              | 1       | Sunabeda                   | 7.3     | 10.6     | 1.6       | 790             | 170                 | NA                 | C                                                          |
| <b>Bathing Water Quality</b><br>(MOEF Notification G.S.R. No. 742(E) Dt. 25.09.2000) |         |                            | 6.5-8.5 | 5.0, min | 3.0, max  | -               | 500 (D)<br>2500 (P) | 100 (D)<br>500 (P) | -                                                          |

(K) Indravati River system

| Name of River                                                                        | Sl. No. | Name of Monitoring Station | pH      | DO, mg/L | BOD, mg/L | TC, MPN/ 100 mL | FC, MPN/ 100 mL     | FS, MPN/ 100 mL    | Water Quality Status (Conforming (C)/ Non-Conforming (NC)) |
|--------------------------------------------------------------------------------------|---------|----------------------------|---------|----------|-----------|-----------------|---------------------|--------------------|------------------------------------------------------------|
| Indravati                                                                            | 1       | Nawarangpur                | 7.2     | 8.1      | 1.8       | 1400            | 330                 | NA                 | C                                                          |
| <b>Bathing Water Quality</b><br>(MOEF Notification G.S.R. No. 742(E) Dt. 25.09.2000) |         |                            | 6.5-8.5 | 5.0, min | 3.0, max  | -               | 500 (D)<br>2500 (P) | 100 (D)<br>500 (P) | -                                                          |

Office of the Engineer-in-Chief, Water Resources, Odisha  
Secha Sadan, Bhubaneswar – 751 001

No. HH GIS & CEM-149/23 6814 / OA Dt. 14.03.2023

From  
Er. Debidutta R.R. Pattnaik,  
Chief Engineer, HH, GIS & CEM

To  
The Special Secretary to Government,  
DoWR, Odisha, Rajiv Bhawan, Bhubaneswar

Sub: Monthly Progress Report on NGT matter- OA No. 606/2018 for the month of February -2023.

Madam,

With reference to the above cited subject, it is to furnish herewith the Monthly Progress Report on the NGT matter-OA No. 606/2018 for the month of February- 2023 for favour of kind information and necessary action.

Yours faithfully,

Encl: As above

Chief Engineer, HH, GIS & CEM

Memo No.

6815 / OA

Dt. 14.03.2023

Copy submitted to the Director, Environment -cum-Special Secretary to Government, Forest & Environment Department, Odisha for kind information & necessary action.

Encl: As above.

Chief Engineer, HH, GIS & CEM

Memo No.

6816 / OA

Dt. 14.03.2023

Copy submitted to the Member Secretary, State Pollution Control Board, Odisha, Paribesh Bhawan, A/118, Nilakantha Nagar, Unit-VIII, Bhubaneswar for information & necessary action.

Encl: As above.

Chief Engineer, HH, GIS & CEM

## Monthly Progress Report on Hon'ble NGT O.A. NO.606 / 2018 for the month of February- 2023

**Subject Matter: Compliance of municipal solid waste management rules, 2016 and other environmental issues**

Format for state wise review of compliance to Hon'ble NGT directions for control of river pollution as per Letter No .1786 dated 25.06.2020 of F & E Department :

### **5. Measures taken for**

#### **A. Control of Illegal Groundwater Abstraction**

Yes

1. So far no such cases of illegal groundwater abstraction are noticed.
2. Govt . of Odisha has formulated an act for regulation of groundwater namely " The Odisha Groundwater ( Regulation , Development and Management ) Act , 2011 "
3. Central Ground Water Board ( CGWB ) and District Level Evaluation Committee ( DLEC ) strictly control the groundwater abstraction by the industries.
4. Chief Engineer and Director, Groundwater Development, Bhubaneswar monitors the fluctuation of the groundwater level in all 30 districts in 10 years interval.

#### **B. River Catchment / Basin Management**

Yes

Inflow from the catchment and outflow from the river of the basins are managed effectively by the Chief Engineer and Basin Managers for 11 nos. of river basins of Odisha.

#### **C. Flood Plain Zone Protection**

Yes

Out of 9 Nos. of polluted river stretches, in Gangua Nalla (Priority No - III), a proposal for construction of a cross regulator at the off taking point of Gangua Nalla has been approved in 128<sup>th</sup> TAC of DOWR to divert the flood discharge of Chandaka Catchment to Kuakhia river ( Approximately 30 % of flood water ) through Budhi Nalla in order to save the urban flooding of storm water in Bhubaneswar city. This is one of the flood plain zone protection works in Gangua Nalla to be executed by DoWR. The work is completed.

#### **D. E - Flow maintenance & Watershed Management**

Yes

E - flow is maintained.

Watershed Management- Integrated Watershed Management Programme is executed throughout the State by Odisha Watershed Development Mission.

**E. Groundwater recharge / Rain water harvesting Rain water harvesting**

**Rooftop Rainwater Harvesting Structures ( RRHS )**

|                  | <u>Govt Building</u> |           | <u>Private Building</u> |                              |
|------------------|----------------------|-----------|-------------------------|------------------------------|
| 2018-19          | 358 nos .            |           | 9438 nos                | (in 11 towns of 9 districts) |
| 2019-20          | Nil                  |           | Nil                     |                              |
| 2020-21          | Nil                  |           | Nil                     |                              |
| 2021-22          | Nil                  |           | Nil                     |                              |
| 2022-23          | Taken up             | Completed | Taken up                | Completed                    |
| (Up to 02/2023 ) | 300 nos              | 108       | 5500                    | 1685                         |

**Ground Water Recharge**

|                      |                                    |                       |
|----------------------|------------------------------------|-----------------------|
| i ) Through Wells    | 2019-20                            | 179 nos (Completed)   |
| (recharge shafts     | 2020-21                            | 65 nos (Completed )   |
| in tanks and ponds ) | 2021-22                            | 280 nos ( Completed ) |
|                      | 2022-23                            | Taken up - 822 nos    |
|                      | Completed up to 02/ 2023 - 562 nos |                       |

- ii ) Through Check dams up to 03/2020 15604 nos. in 30 districts  
(Completed since inception of the scheme in 2010-11)  
up to 3/2021 , 15833 nos. (Completed)  
up to 03 / 2022, 15867 nos. (Completed)  
up to 02/2023 15868 nos. (Completed)

**F. Setting up of Biodiversity Parks, Greenery / Plantation along the banks of river stretch**

1094699 nos. of sapling and seedling have been planted during monsoon 2018 along the banks of the rivers, dam sites, barrage sites and canal sites, out of which 329962 nos. of plants are alive ( 30.14 % - Survival Status )

**G. Removal of encroachments**

When encroachments are noticed, Revenue Authorities are moved to make the land free from encroachment to maintain the natural flow in the drain.

Chief Engineer

HH, GIS & CEM

13/3/23

**OFFICE OF THE ENGINEER-IN-CHIEF, WATER RESOURCES,  
ODISHA, SECHA SADAN, BHUBANESWAR-751001**

No.HH, GIS &amp; CEM-GEN-132/22

6817/WR

Date: 14.03.2023

From,

Er. Debidutta R.R. Patnaik,  
Chief Engineer, HH, GIS & CEM.

To,

The Additional Secretary to Government,  
DoWR, Odisha, Bhubaneswar.

Sub: Monthly Progress Report in the NGT matter-OA No. 673/2018 for the month of February -2023.

Ref: Sixth meeting of Central Monitoring Committee (CMC) held on Dtd. 30.09.2020.

Sir,

With reference to the above cited subject, it is to furnish herewith the Monthly Progress Report in the NGT matter- OA No. 673/2018 for the month of February -2023 for favour of kind information and necessary action.

A statement showing release of water upto 9 cusec to Gangua Nallah through Palasuni Escape at RD 12.640 km of Daya West Branch Canal during February-2023 (01.02.2023 to 28.02.2023), is enclosed for your kind perusal.

Encl: As above.

Yours faithfully,

Memo No.

6818/WR

Date

14.03.2023

Chief Engineer, HH, GIS &amp; CEM

Copy with enclosures submitted to the EIC,WR/EIC (P&D) for kind information and necessary action.

Encl: As above.

Memo No.

6819/WR

Date

14.03.2023

Chief Engineer, HH, GIS &amp; CEM

Copy with enclosures submitted to the Director, Environment-cum-Special Secretary to Government, Forest, Environment & Climate Change Department, Odisha for kind information and necessary action.

Encl: As above.

Memo No.

6820/WR

Date

14.03.2023

Chief Engineer, HH, GIS &amp; CEM

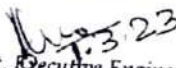
Copy with enclosures submitted to the Member Secretary, State Pollution Control Board, Odisha, Paribesh Bhawan, A/118, Nilakantha Nagar, Unit-VIII, Bhubaneswar for kind information and necessary action.

Encl: As above.

Chief Engineer, HH, GIS &amp; CEM

**RELEASE OF WATER TO GANGUA NALLAH THROUGH PALASUNI  
ESCAPE AT RD 12.640 KM. OF DAYA WEST BRANCH CANAL**

| DATE       | DISCHARGE IN CUSECS |
|------------|---------------------|
| 1.02.2023  | 5                   |
| 2.02.2023  | 3                   |
| 3.02.2023  | 6                   |
| 4.02.2023  | 8                   |
| 5.02.2023  | 9                   |
| 6.02.2023  | 7                   |
| 7.02.2023  | 6                   |
| 8.02.2023  | 7                   |
| 9.02.2023  | 6                   |
| 10.02.2023 | 8                   |
| 11.02.2023 | 7                   |
| 12.02.2023 | 4                   |
| 13.02.2023 | 8                   |
| 14.02.2023 | 7                   |
| 15.02.2023 | 9                   |
| 16.02.2023 | 8                   |
| 17.02.2023 | 7                   |
| 18.02.2023 | 6                   |
| 19.02.2023 | 8                   |
| 20.02.2023 | 0                   |
| 21.02.2023 | 0                   |
| 22.02.2023 | 0                   |
| 23.02.2023 | 0                   |
| 24.02.2023 | 0                   |
| 25.02.2023 | 3                   |
| 26.02.2023 | 4                   |
| 27.02.2023 | 5                   |
| 28.02.2023 | 5                   |

  
 Asst. Executive Engineer  
 BBSR Irr. Sub-Division  
 Bhubaneswar

| Sl. No. | DISTRICT      | DISTRICT WISE LIST OF COMPLETED CHECK DAMS FROM 2010-11 TO 2022-23 (UPTO THE MONTH OF FEBRUARY 2023) |                                |                                |                           |                                |                                 |     |        |                                |                                 | 1280 new Sanctioned Check Dams during 2021-22 |                                |                       |    |  |  |
|---------|---------------|------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------------|---------------------------|--------------------------------|---------------------------------|-----|--------|--------------------------------|---------------------------------|-----------------------------------------------|--------------------------------|-----------------------|----|--|--|
|         |               | COMPLETED                                                                                            |                                |                                |                           |                                |                                 |     |        |                                |                                 |                                               |                                |                       |    |  |  |
|         |               | 2010-11 to 2021-22                                                                                   |                                | 2022-23                        |                           |                                |                                 |     |        |                                |                                 |                                               |                                |                       |    |  |  |
|         |               | Nos                                                                                                  | Area benefitted in HA          | Nos                            |                           |                                | Area benefitted in HA           |     |        | Nos. of sanctioned projects    | Area benefitted in HA           | 2022-23                                       |                                | Area benefitted in HA |    |  |  |
|         |               | By the Month of June 2022                                                                            | For the Month of february 2023 | Total Completed during 2022-23 | By the Month of June 2022 | For the Month of february 2023 | Total Complete d during 2022-23 |     |        | For the Month of february 2023 | Total Complet ed during 2022-23 | For the Month of february 2023                | Total Completed during 2022-23 |                       |    |  |  |
| 1       | Angul         | 327                                                                                                  | 4669                           |                                |                           |                                |                                 | 48  | 1041   |                                |                                 |                                               |                                |                       |    |  |  |
| 2       | Balangir      | 691                                                                                                  | 2512                           |                                |                           |                                |                                 | 47  | 1148   |                                |                                 |                                               |                                |                       |    |  |  |
| 3       | Balasore      | 411                                                                                                  | 7184                           |                                |                           |                                |                                 | 17  | 232    |                                |                                 |                                               |                                |                       |    |  |  |
| 4       | Baragarh      | 960                                                                                                  | 7711                           |                                |                           |                                |                                 | 44  | 927    |                                |                                 |                                               |                                |                       |    |  |  |
| 5       | Bhadrak       | 99                                                                                                   | 1880                           |                                |                           |                                |                                 | 7   | 230    |                                |                                 |                                               |                                |                       |    |  |  |
| 6       | Boudh         | 278                                                                                                  | 2866                           |                                |                           |                                |                                 | 110 | 2918   |                                |                                 |                                               |                                |                       |    |  |  |
| 7       | Cuttack       | 581                                                                                                  | 8186                           |                                |                           |                                |                                 | 60  | 1254   |                                |                                 |                                               |                                |                       |    |  |  |
| 8       | Deogarh       | 213                                                                                                  | 2838                           |                                |                           |                                |                                 | 36  | 688    |                                |                                 |                                               |                                |                       |    |  |  |
| 9       | Dhenkanal     | 665                                                                                                  | 12835                          |                                |                           |                                |                                 | 30  | 571    |                                |                                 |                                               |                                |                       |    |  |  |
| 10      | Gajapati      | 162                                                                                                  | 3059                           |                                |                           |                                |                                 | 55  | 1234   |                                |                                 |                                               |                                |                       |    |  |  |
| 11      | Ganjam        | 760                                                                                                  | 12283                          |                                |                           |                                |                                 | 60  | 1365   |                                |                                 |                                               |                                |                       |    |  |  |
| 12      | Jagatsinghpur | 0                                                                                                    | 0                              |                                |                           |                                |                                 | -   | 0      |                                |                                 |                                               |                                |                       |    |  |  |
| 13      | Jajpur        | 229                                                                                                  | 3372                           | 1                              |                           | 1                              | 21                              | 32  | 826    |                                |                                 |                                               |                                |                       |    |  |  |
| 14      | Jharsuguda    | 342                                                                                                  | 4473                           |                                |                           |                                |                                 | 30  | 793    |                                |                                 |                                               |                                |                       |    |  |  |
| 15      | Kalahandi     | 1089                                                                                                 | 13621                          |                                |                           |                                |                                 | 37  | 1228   |                                |                                 |                                               |                                |                       |    |  |  |
| 16      | Kandhamal     | 400                                                                                                  | 4077                           |                                |                           |                                |                                 | 144 | 2522   |                                |                                 |                                               |                                |                       |    |  |  |
| 17      | Kendrapada    | 20                                                                                                   | 388                            |                                |                           |                                |                                 | 23  | 436    |                                |                                 |                                               |                                |                       |    |  |  |
| 18      | Keonjhar      | 939                                                                                                  | 7195                           |                                |                           |                                |                                 | 30  | 577    |                                |                                 |                                               |                                |                       |    |  |  |
| 19      | Khurda        | 511                                                                                                  | 5110                           |                                |                           |                                |                                 | 19  | 278    |                                |                                 |                                               |                                |                       |    |  |  |
| 20      | Koraput       | 352                                                                                                  | 4702                           |                                |                           |                                |                                 | 37  | 781    |                                |                                 |                                               |                                |                       |    |  |  |
| 21      | Malkangiri    | 340                                                                                                  | 1306                           |                                |                           |                                |                                 | 23  | 631    |                                |                                 |                                               |                                |                       |    |  |  |
| 22      | Mayurbhanj    | 761                                                                                                  | 7355                           |                                |                           |                                |                                 | 135 | 2291   |                                |                                 |                                               |                                |                       |    |  |  |
| 23      | Nabarangpur   | 346                                                                                                  | 3879                           |                                |                           |                                |                                 | 51  | 1486   |                                |                                 |                                               |                                |                       |    |  |  |
| 24      | Nayagarh      | 688                                                                                                  | 6677                           |                                |                           |                                |                                 | 62  | 997    |                                |                                 |                                               |                                |                       |    |  |  |
| 25      | Nuapada       | 704                                                                                                  | 5358                           |                                |                           |                                |                                 | 8   | 299    |                                |                                 |                                               |                                |                       |    |  |  |
| 26      | Puri          | 60                                                                                                   | 371                            |                                |                           |                                |                                 | -   | 0      |                                |                                 |                                               |                                |                       |    |  |  |
| 27      | Raygada       | 835                                                                                                  | 7013                           |                                |                           |                                |                                 | 29  | 675    |                                |                                 |                                               |                                |                       |    |  |  |
| 28      | Sambalpur     | 704                                                                                                  | 7361                           |                                |                           |                                |                                 | 71  | 1339   |                                |                                 |                                               |                                |                       |    |  |  |
| 29      | Subarnapur    | 181                                                                                                  | 2376                           |                                |                           |                                |                                 | 4   | 59     |                                |                                 |                                               |                                |                       |    |  |  |
| 30      | Sundargarh    | 742                                                                                                  | 1279                           |                                |                           |                                |                                 | 31  | 780.00 | 1                              | 1                               | 25                                            | 25                             |                       |    |  |  |
| Total   |               | 14390                                                                                                | 151935                         | 1                              | 0                         | 1                              | 21                              | 0   | 21     | 1280                           | 27606                           | 1                                             | 1                              | 25                    | 25 |  |  |

*Pradyumn*  
2-3-2023  
AFF(M&T)

**Recharge of Ground Water through Ground Water Recharge Structures(GWRS) in the Tanks/Ponds of the State(No. of Tanks/Ponds/ Recharge Wells) .(Up To 28/02/2023)**

|            |                 |               | <b>GW BUDGET(RECHARGE SHAFTS)</b>                               |                                                                           |
|------------|-----------------|---------------|-----------------------------------------------------------------|---------------------------------------------------------------------------|
| <b>S/n</b> | <b>District</b> | <b>BLOCKS</b> | <b>Recharge Shaft programmed during the FY-2022-23(Revised)</b> | <b>Recharge Shaft constructed during the FY-2022-23 (Upto 28/02/2023)</b> |
| 1          | Angul           | TALCHER       | 10                                                              | 10                                                                        |
| 2          | Balangir        |               |                                                                 |                                                                           |
| 3          | Balasore        | BALIAPAL      | 40                                                              | 40                                                                        |
| 4          | Bargarh         |               |                                                                 |                                                                           |
| 5          | Bhadrak         |               |                                                                 |                                                                           |
| 6          | Boudh           |               |                                                                 |                                                                           |
| 7          | Cuttack         |               |                                                                 |                                                                           |
| 8          | Deogarh         |               |                                                                 |                                                                           |
| 9          | Dhenkanal       |               |                                                                 |                                                                           |
| 10         | Gajapati        |               |                                                                 |                                                                           |
| 11         | Ganjam          | GANJAM        | 20                                                              | 20                                                                        |
|            |                 | ASKA          | 20                                                              | 20                                                                        |
| 12         | Jagatsinghpur   |               |                                                                 |                                                                           |
| 13         | Jaipur          | KOREI         | 40                                                              | 40                                                                        |
| 14         | Jharsuguda      |               |                                                                 |                                                                           |
| 15         | Kalahandi       |               |                                                                 |                                                                           |
| 16         | Kandhamal       |               |                                                                 |                                                                           |
| 17         | Kendrapara      | GARADPUR      | 40                                                              | 40                                                                        |
| 18         | Keonjhar        |               |                                                                 |                                                                           |
| 19         | Khordha         | BHUBANESWAR   | 40                                                              | 40                                                                        |
|            |                 | BOLAGARH      | 40                                                              | 40                                                                        |
| 20         | Koraput         |               |                                                                 |                                                                           |
| 21         | Malkangiri      |               |                                                                 |                                                                           |
| 22         | Mayurbhanj      |               |                                                                 |                                                                           |
| 23         | Nabarangpur     |               |                                                                 |                                                                           |
| 24         | Nayagarh        | NAYAGARH      | 26                                                              | 26                                                                        |
| 25         | Nuapada         | NUAPADA       | 10                                                              | 10                                                                        |
| 26         | Puri            | KAKATPUR      | 26                                                              | 26                                                                        |
| 27         | Rayagada        |               |                                                                 |                                                                           |
| 28         | Sambalpur       |               |                                                                 |                                                                           |
| 29         | Sonepur         | SONEPUR       | 10                                                              | 10                                                                        |
| 30         | Sundargarh      | BISRA         | 10                                                              | 10                                                                        |
|            | <b>TOTAL:</b>   |               | 332                                                             | 332                                                                       |

  
 Personal Asst. (T) to  
 Director, GWD,  
 Bhubaneswar

**Roof Top Rain Water Harvesting In Govt. Buildings and Private Buildings (Up To 28/02/2023)**

| S/n    | District     | BLOCKS       | CHHATA SCHEME(RRHS) IN 27 ULBs         |                                                                  |                         |                                                                  |
|--------|--------------|--------------|----------------------------------------|------------------------------------------------------------------|-------------------------|------------------------------------------------------------------|
|        |              |              | RRHS IN<br>GOVT.BUILDIN<br>G (Revised) | Constructed<br>during the FY-<br>2022-23<br>(Upto<br>28/02/2023) | RRHS IN<br>PVT.BUILDING | Constructed<br>during the FY-<br>2022-23<br>(Upto<br>28/02/2023) |
| 1      | 2            | 3            | 4                                      | 5                                                                | 6                       | 7                                                                |
| 1      | Angul        | Anugul       | 2                                      |                                                                  | 112                     | 37                                                               |
| 2      | Angul        | Talcher      | 2                                      |                                                                  | 75                      | 21                                                               |
| 3      | Bargarh      | Bargarh      | 2                                      |                                                                  | 75                      | 7                                                                |
| 4      | Bargarh      | Padmapur     | 1                                      |                                                                  | 93                      | 5                                                                |
| 5      | Bargarh      | Barpalli     | 2                                      |                                                                  | 93                      | 4                                                                |
| 6      | Bolangir     | Bolangir     | 2                                      |                                                                  | 205                     | 46                                                               |
| 7      | Bolangir     | Titilagarh   | 2                                      |                                                                  | 149                     | 8                                                                |
| 8      | Cuttack      | Cuttack      | 3                                      | 3                                                                | 298                     | 253                                                              |
| 9      | Ganajam      | Aska         | 2                                      | 2                                                                | 149                     | 30                                                               |
| 10     | Ganajam      | Digapahandi  | 2                                      | 2                                                                | 149                     | 30                                                               |
| 11     | Ganajam      | Hinjilikote  | 2                                      | 2                                                                | 168                     | 20                                                               |
| 12     | Ganajam      | Berhampur    | 3                                      | 3                                                                | 336                     | 50                                                               |
| 13     | Jharsuguda   | Jharsuguda   | 3                                      |                                                                  | 205                     | 18                                                               |
| 14     | Keonjhar     | Joda         | 2                                      |                                                                  | 205                     | 1                                                                |
| 15     | Khurda       | Khurda       | 3                                      |                                                                  | 186                     | 46                                                               |
| 16     | Khurda       | Bhubaneswar  | 5                                      |                                                                  | 746                     | 497                                                              |
| 17     | Mayurbhanj   | Baripada     | 2                                      |                                                                  | 261                     | 156                                                              |
| 18     | Nabarangapur | Nabarangapur | 2                                      |                                                                  | 149                     | 11                                                               |
| 19     | Nayagarh     | Nayagarh     | 2                                      |                                                                  | 205                     | 20                                                               |
| 20     | Puri         | Puri         | 3                                      | 3                                                                | 224                     | 106                                                              |
| 21     | Sambalpur    | Sambalpur    | 3                                      |                                                                  | 316                     | 81                                                               |
| 22     | Dhenkanal    | Dhenkanal    | 2                                      |                                                                  | 224                     | 33                                                               |
| 23     | Subarnapur   | Tarava       | 2                                      |                                                                  | 131                     | 5                                                                |
| 24     | Subarnapur   | Sonepur      | 2                                      |                                                                  | 149                     | 12                                                               |
| 25     | Sundargarh   | Rourkela     | 3                                      |                                                                  | 280                     | 23                                                               |
| 26     | Kendrapada   | Kendrapada   | 2                                      | 2                                                                | 168                     | 121                                                              |
| 27     | Kendrapada   | Pattamundai  | 2                                      | 2                                                                | 149                     | 44                                                               |
| TOTAL: |              |              | 63                                     | 19                                                               | 5500                    | 1685                                                             |

  
 Personal Asst. (T) to  
 Director, GWD,  
 Bhubaneswar

**Roof Top Rain Water Harvesting In Govt. Buildings (Up To 28/02/2023)**

| S/n | District      | BLOCKS          | CHHATA SCHEME(RRHS) IN 52 BLOCKS                               |                                                     |
|-----|---------------|-----------------|----------------------------------------------------------------|-----------------------------------------------------|
|     |               |                 | RRHS IN GOVT.BUILDING (Programme for the year 2022-23) Revised | Constructed during the FY-2022-23 (Upto 28/02/2023) |
| 1   | 2             | 3               | 4                                                              | 5                                                   |
| 1   | Nayagarh      | Nayagarh        | 6                                                              |                                                     |
| 2   | Khurda        | Bolagarh        | 5                                                              |                                                     |
| 3   | Dhenkanal     | Dhenkanal       | 5                                                              |                                                     |
| 4   | Dhenkanal     | Odapada         | 5                                                              |                                                     |
| 5   | Cuttack       | Cuttack Sadar   | 7                                                              | 7                                                   |
| 6   | Jagatsinghpur | Naugaon         | 5                                                              | 4                                                   |
| 7   | Jagatsinghpur | Kujanga         | 5                                                              | 5                                                   |
| 8   | Jagatsinghpur | Jagatsinghpur   | 7                                                              |                                                     |
| 9   | Jajpur        | Rasulpur        | 5                                                              |                                                     |
| 10  | Jajpur        | Binjharpur      | 5                                                              |                                                     |
| 11  | Jajpur        | Jajpur          | 6                                                              | 5                                                   |
| 12  | Jajpur        | Dasarathapur    | 4                                                              | 6                                                   |
| 13  | Jajpur        | Bari            | 4                                                              | 4                                                   |
| 14  | Puri          | Kakatapur       | 5                                                              |                                                     |
| 15  | Jajpur        | Korei           | 4                                                              | 4                                                   |
| 16  | Khurda        | Balipatna       | 3                                                              |                                                     |
| 17  | Khurda        | Bhubaneswar     | 9                                                              |                                                     |
| 18  | Khurda        | Khurda          | 9                                                              |                                                     |
| 19  | Kendrapada    | Pattamundai     | 4                                                              | 4                                                   |
| 20  | Kendrapada    | Kendrapada      | 7                                                              | 7                                                   |
| 21  | Kendrapada    | Aul             | 4                                                              | 4                                                   |
| 22  | Kendrapada    | Garadpur        | 4                                                              | 4                                                   |
| 23  | Balesore      | Remuna          | 5                                                              |                                                     |
| 24  | Balesore      | Nilagiri        | 5                                                              |                                                     |
| 25  | Balesore      | Jaleswar        | 5                                                              |                                                     |
| 26  | Balesore      | Baliapal        | 5                                                              |                                                     |
| 27  | Balesore      | Bahananga       | 5                                                              |                                                     |
| 28  | Ganjam        | Ganjam          | 6                                                              | 8                                                   |
| 29  | Ganjam        | Aska            | 5                                                              | 7                                                   |
| 30  | Keonjhar      | Joda            | 6                                                              |                                                     |
| 31  | Jharsuguda    | Jharsuguda      | 6                                                              |                                                     |
| 32  | Bhadrack      | Dhamanagar      | 4                                                              |                                                     |
| 33  | Bhadrak       | Bhadrak         | 4                                                              |                                                     |
| 34  | Bhadrak       | Bhandaripokhari | 5                                                              |                                                     |
| 35  | Angul         | Talcher         | 5                                                              |                                                     |
| 36  | Angul         | Kaniha          | 3                                                              |                                                     |
| 37  | Subarnapur    | Tarava          | 3                                                              | 2                                                   |

|    |            |                |     |    |
|----|------------|----------------|-----|----|
| 38 | Subarnapur | Sonepur        | 5   | 3  |
| 39 | Sundargarh | Bisra          | 3   | 3  |
| 40 | Baragarh   | Bhatali        | 3   | 2  |
| 41 | Baragarh   | Jharabandha    | 1   | 1  |
| 42 | Baragarh   | Padmapur       | 3   | 2  |
| 43 | Baragarh   | Baragarh       | 5   | 2  |
| 44 | Baragarh   | Sohela         | 1   | 1  |
| 45 | Bolangir   | Loisingha      | 3   | 2  |
| 46 | Bolangir   | Bolangir       | 3   | 2  |
| 47 | Nuapada    | Nuapada        | 2   |    |
| 48 | Mayurbhanj | Rasagobindapur | 3   |    |
| 49 | Mayurbhanj | Badsahi        | 3   |    |
| 50 | Mayurbhanj | Sukruli        | 3   |    |
| 51 | Mayurbhanj | Udala          | 4   |    |
| 52 | Mayurbhanj | Betonati       | 5   |    |
|    | TOTAL:     |                | 237 | 89 |

  
 16/03/23  
 Personal Asst. (T) to  
 Director, GWD,  
 Bhubaneswar

**Recharge of Ground Water through Ground Water Recharge Structures(GWRS) in the  
Tanks/Ponds of the State(No. of Tanks/Ponds (Up To 28/02/2023))**

| S/n | District      | BLOCKS          | ARUA SCHEME(RECHARGE SHAFTS)                                       |                                                                                 |
|-----|---------------|-----------------|--------------------------------------------------------------------|---------------------------------------------------------------------------------|
|     |               |                 | Recharge Shaft<br>programmed<br>during the FY-<br>2022-23(Revised) | Recharge Shaft<br>constructed<br>during the FY-<br>2022-23<br>(Upto 28/02/2023) |
| 1   | 2             | 3               | 4                                                                  | 5                                                                               |
| 1   | Angul         | Talcher         | 8                                                                  | 8                                                                               |
| 2   | Puri          | Kakatpur        | 7                                                                  | 7                                                                               |
| 3   | Nayagarh      | Nayagarh        | 8                                                                  | 8                                                                               |
| 4   | Khurda        | Khurda          | 8                                                                  |                                                                                 |
| 5   | Khurda        | Bhubaneswar     | 48                                                                 |                                                                                 |
| 6   | Khurda        | Bolagarh        | 48                                                                 | 40                                                                              |
| 7   | Khurda        | Balipatna       | 8                                                                  |                                                                                 |
| 8   | Kendrapara    | Garadpur        | 45                                                                 | 45                                                                              |
| 9   | Jajpur        | Korei           | 52                                                                 | 32                                                                              |
| 10  | Jagatsinghpur | Kujanga         | 7                                                                  |                                                                                 |
| 11  | Kendrapara    | Patamundai      | 7                                                                  |                                                                                 |
| 12  | Jajpur        | Binjharpur      | 8                                                                  |                                                                                 |
| 13  | Cuttack       | Cuttack sadar   | 7                                                                  |                                                                                 |
| 14  | Jajpur        | Rasulpur        | 8                                                                  |                                                                                 |
| 15  | Jajpur        | Jajpur          | 8                                                                  |                                                                                 |
| 16  | Jajpur        | Dasarathpur     | 7                                                                  |                                                                                 |
| 17  | Bhadrak       | Dhamnagar       | 7                                                                  |                                                                                 |
| 18  | Mayurbhanj    | Rasgovindpur    | 8                                                                  |                                                                                 |
| 19  | Bargarh       | Jharbandha      | 7                                                                  | 4                                                                               |
| 20  | Bhadrak       | Bhandaripokhari | 8                                                                  |                                                                                 |
| 21  | Balasore      | Bahanga         | 8                                                                  |                                                                                 |
| 22  | Mayurbhanj    | Badasahi        | 8                                                                  |                                                                                 |
| 23  | Balasore      | Remuna          | 8                                                                  |                                                                                 |
| 24  | Keonjhar      | Joda            | 8                                                                  |                                                                                 |
| 25  | Balasore      | Baliapal        | 52                                                                 | 40                                                                              |
| 26  | Nuapada       | Nuapada         | 45                                                                 | 16                                                                              |
| 27  | Bolangir      | Loisinga        | 7                                                                  | 7                                                                               |
| 28  | Bargarh       | Bargarh         | 8                                                                  | 3                                                                               |
| 29  | Subarnapur    | Sonepur         | 8                                                                  | 8                                                                               |
| 30  | Bargarh       | Bhatti          | 8                                                                  | 4                                                                               |
| 31  | Sundargarh    | Bisra           | 8                                                                  | 8                                                                               |
| 32  | Jharsuguda    | Jharsuguda      | 8                                                                  |                                                                                 |
|     | <b>TOTAL</b>  |                 | <b>490</b>                                                         | <b>230</b>                                                                      |

  
 Personal Asst. (T) to  
 Director, GWD,  
 Bhubaneswar

**National Mission for Clean Ganga Format for submission of Monthly Progress Report in the NGT Matter O.A. No. 673 of 2018 (in compliance to NGT Order Dtd. 24.09.2020)**

**Month - February, 2023**

**1. Name of the Polluted River Stretch :- Gangua Nallah (Along Bhubaneswar)**

| Sl No. | Key Components of Proposed Action Plan for restoration of identified polluted river stretch in the state | Proposed Achievable Target                                                                                                                                                                                                                                                                                                                                                                                                                                           | Proposed Time Targets for compliance                                                                          | Present Status or pendency in terms of %age                   | Remarks          |
|--------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|------------------|
| 1      | 2                                                                                                        | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 4                                                                                                             | 5                                                             | 6                |
| XIV    | Ground Water regulation:                                                                                 | Govt. of Odisha has formulated an Act for regulation for groundwater namely "The Odisha Ground Water (Regulation, Development and Management) Act, 2011". Central Ground Water Board (CGWB) & District Level Evaluation Committee (DLEC) strictly control the ground water abstraction by the industries. Chief Engineer & Director, Groundwater Development, Bhubaneswar monitors the fluctuation of the groundwater level in all 30 districts in regular interval. |                                                                                                               |                                                               |                  |
| XV     | Good Irrigation Practices being adopted by the state:                                                    | Rotational water supply in Daya West Branch Canal system recharges the ground water as well as river or drain.                                                                                                                                                                                                                                                                                                                                                       | In every year, during Kharif crop (1st July to 15th Nov). and Rabi crop (1st week of January to 15th of May). | Rotational water supply is maintained in Kharif & Rabi crops. |                  |
| XVI    | Rainwater harvesting                                                                                     | Construction of <b>Roof-top Rainwater Harvesting Structure (RRHS) in Govt. and Private Building in towns</b> of Odisha.                                                                                                                                                                                                                                                                                                                                              | 2014-15 to 2018-19                                                                                            | 131 nos in Govt. Buildings & 4942 nos. in Private Buildings   |                  |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2019-20                                                                                                       | Nil                                                           |                  |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2020-21                                                                                                       | Nil                                                           |                  |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2021-22                                                                                                       | Nil                                                           |                  |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2022-23                                                                                                       | 543 nos. in Private Buildings                                 |                  |
|        |                                                                                                          | Ground Water Recharge through construction of <b>Recharge shaft</b> in tanks and ponds                                                                                                                                                                                                                                                                                                                                                                               | 2019-20                                                                                                       | 9 nos.                                                        | In Khordha Dist. |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2020-21                                                                                                       | Nil                                                           |                  |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2021-22                                                                                                       | 65 nos.                                                       |                  |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2022-23                                                                                                       | 80 nos. in GW budget & 40 nos. in ARUA Scheme                 |                  |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2019-20                                                                                                       | 534 nos. upto March, 2020                                     |                  |
|        |                                                                                                          | Construction of <b>Check Dam</b>                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2020-21                                                                                                       | 7 nos.                                                        | In Khordha Dist. |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2021-22                                                                                                       | 3 nos.                                                        |                  |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2022-23                                                                                                       | Nil                                                           |                  |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                               |                                                               |                  |

**National Mission for Clean Ganga Format for submission of Monthly Progress Report in the NGT Matter O.A. No. 673 of 2018 (in compliance to NGT Order Dtd. 24.09.2020)**

**Month - February, 2023**

**1. Name of the Polluted River Stretch :- Gangua Nallah (Along Bhubaneswar)**

| Sl No. | Key Components of Proposed Action Plan for restoration of identified polluted river stretch in the state | Proposed Achievable Target                                                                                                                                                                                                                                                                                                                 | Proposed Time Targets for compliance | Present Status or pendency in terms of %age | Remarks                                                                                                                   |
|--------|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| 1      | 2                                                                                                        | 3                                                                                                                                                                                                                                                                                                                                          | 4                                    | 5                                           | 6                                                                                                                         |
| XVII   | Demarcation of Flood Plain & removal of illegal encroachments:                                           | Construction of a cross regulator at RD 60 m. of Gangua Nallah to divert the entire flood discharge of Chandaka catchment to Kuakhai river through Budhi Nalla in high flood situation.<br>When encroachment are noticed, Revenue Authorities are moved to make the land free from encroachment to maintain the natural flow in the drain. |                                      |                                             | Work is under progress.                                                                                                   |
| XVIII  | Maintaining minimum e-flows of river                                                                     | It is a storm water drain. The minimum flow in Gangua Nalla in non-monsoon is maintained by inletting water from river Mahanadi through Daya West Branch Canal.                                                                                                                                                                            | During lean period from Nov to May.  | Maintained                                  | Release of water ranging from 00 Cusec to 09 Cusec to Gangua Nallah through Palasuni Escape from 01.02.2023 to 28.02.2023 |
| XIX    | Plantation activities along the river                                                                    | 4900 seedlings have been planted along the drainage canals by Khordha Drainage Division during monsoon of 2018.                                                                                                                                                                                                                            | During Monsoon 2018.                 | 1979 nos. of plants are alive.              |                                                                                                                           |

**National Mission for Clean Ganga Format for submission of Monthly Progress Report in the NGT Matter O.A. No. 673 of 2018 (in compliance to NGT Order Dtd. 24.09.2020)**

**Month - February, 2023**

**2. Name of the Polluted River Stretch :- Daya (Bhubaneswar to Baragada)**

| Sl No. | Key Components of Proposed Action Plan for restoration of identified polluted river stretch in the state | Proposed Achievable Target                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Proposed Time Targets for compliance                                                                          | Present Status or pendency in terms of %age                   | Remarks                                          |
|--------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------|
| 1      | 2                                                                                                        | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 4                                                                                                             | 5                                                             | 6                                                |
| XIV    | Ground Water regulation:                                                                                 | Govt. of Odisha has formulated an Act for regulation for groundwater namely "The Odisha Ground Water (Regulation, Development and Management) Act, 2011".<br>Central Ground Water Board (CGWB) & District Level Evaluation Committee (DLEC) strictly control the ground water abstraction by the industries.<br>Chief Engineer & Director, Groundwater Development, Bhubaneswar monitors the fluctuation of the groundwater level in all 30 districts in regular interval. |                                                                                                               |                                                               |                                                  |
| XV     | Good Irrigation Practices being adopted by the state:                                                    | Rotational water supply in Puri Main Canal system recharges the ground water as well as river or drain.                                                                                                                                                                                                                                                                                                                                                                    | In every year, during Kharif crop (1st July to 15th Nov). and Rabi crop (1st week of January to 15th of May). | Rotational water supply is maintained in Kharif & Rabi crops. |                                                  |
| XVI    | Rainwater harvesting                                                                                     | Construction of <b>Rooftop Rainwater Harvesting Structure (RRHS) in Govt. and Private Building in towns</b> of Odisha.                                                                                                                                                                                                                                                                                                                                                     | 2014-15 to 2018-19                                                                                            | 131 nos in Govt. Buildings & 4942 nos. in Private Buildings   | Bhubaneswar town                                 |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2019-20                                                                                                       | Nil                                                           |                                                  |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2020-21                                                                                                       | Nil                                                           |                                                  |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2021-22                                                                                                       | Nil                                                           |                                                  |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2022-23                                                                                                       | 543 nos. in Private Buildings                                 | 497 nos. in Bhubaneswar town & 46 nos. in Khurda |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2019-20                                                                                                       | 9 nos.                                                        |                                                  |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2020-21                                                                                                       | Nil                                                           |                                                  |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2021-22                                                                                                       | 65 nos.                                                       |                                                  |
|        |                                                                                                          | Ground Water Recharge through construction of <b>Recharge shaft</b> in tanks and ponds                                                                                                                                                                                                                                                                                                                                                                                     | 2022-23                                                                                                       | 80 nos. in GW budget & 40 nos. in ARUA Scheme                 | In Khordha Dist.                                 |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2019-20                                                                                                       | 534 nos. upto March, 2020                                     |                                                  |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2020-21                                                                                                       | 7 nos.                                                        |                                                  |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2021-22                                                                                                       | 3 nos.                                                        |                                                  |
|        |                                                                                                          | Construction of <b>Check Dam</b>                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2022-23                                                                                                       | Nil                                                           | In Khordha Dist.                                 |

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**Month - February, 2023**

**2. Name of the Polluted River Stretch :- Daya (Bhubaneswar to Baragada)**

| Sl No. | Key Components of Proposed Action Plan for restoration of identified polluted river stretch in the state | Proposed Achievable Target                                                                                                                                                                                                             | Proposed Time Targets for compliance | Present Status or pendency in terms of %age | Remarks                         |
|--------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------|---------------------------------|
| 1      | 2                                                                                                        | 3                                                                                                                                                                                                                                      | 4                                    | 5                                           | 6                               |
| XVII   | Demarcation of Flood Plain & removal of illegal encroachments:                                           | All the flood plain zones are adequately protected and effectively managed every year. When encroachment are noticed, Revenue Authorities are moved to make the land free from encroachment to maintain the natural flow in the drain. |                                      |                                             |                                 |
| XVIII  | Maintaining minimum e-flows of river                                                                     | e-flow maintained.<br>Integrated watershed management programme is executed through out the state by Odisha Watershed Development Mission.                                                                                             | During lean period from Nov to May.  | Maintained                                  |                                 |
| XIX    | Plantation activities along the river                                                                    | 11865 seedlings have been planted along the canal colony office premises by Prachi Division during Monsoon-2018.                                                                                                                       | During Monsoon 2018.                 |                                             | By Prachi Division, Bhubaneswar |

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**Month - February, 2023**

**3. Name of the Polluted River Stretch :- Brahmani (Rourkela to Biritol)**

| Sl No. | Key Components of Proposed Action Plan for restoration of identified polluted river stretch in the state | Proposed Achievable Target                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Proposed Time Targets for compliance | Present Status or pendency in terms of %age                            | Remarks             |
|--------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|------------------------------------------------------------------------|---------------------|
| 1      | 2                                                                                                        | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 4                                    | 5                                                                      | 6                   |
| XIV    | Ground Water regulation:                                                                                 | Govt. of Odisha has formulated an Act for regulation for groundwater namely "The Odisha Ground Water (Regulation, Development and Management) Act, 2011".<br>Central Ground Water Board (CGWB) & District Level Evaluation Committee (DLEC) strictly control the ground water abstraction by the industries.<br>Chief Engineer & Director, Groundwater Development, Bhubaneswar monitors the fluctuation of the groundwater level in all 30 districts in regular interval. |                                      |                                                                        |                     |
| XV     | Good Irrigation Practices being adopted by the state:                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                      |                                                                        |                     |
| XVI    | Rainwater harvesting                                                                                     | Construction of <b>Rooftop Rainwater Harvesting Structure (RRHS) in Govt. and Private Building in towns</b> of Odisha.                                                                                                                                                                                                                                                                                                                                                     | 2014-15 to 2018-19                   | 1 no in Govt. Buildings & 76 nos. in Private Buildings                 | Rourkela town       |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2019-20                              | Nil                                                                    |                     |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2020-21                              | Nil                                                                    |                     |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2021-22                              | Nil                                                                    |                     |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2022-23                              | 3nos. in Govt. Building in BISRA                                       |                     |
|        |                                                                                                          | Ground Water Recharge through construction of <b>Recharge shaft</b> in tanks and ponds                                                                                                                                                                                                                                                                                                                                                                                     | 2019-20                              | 4 nos.                                                                 | In Sundargarh Dist. |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2020-21                              | 5 nos.                                                                 |                     |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2021-22                              | 5 nos.                                                                 |                     |
|        |                                                                                                          | Construction of <b>Check Dam</b>                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2022-23                              | 10 nos. through GW Budget and 8 nos. through ARUA Scheme               | In Sundargarh Dist. |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2019-20                              | 742 nos. upto March,                                                   |                     |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2020-21                              | Nil                                                                    |                     |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2021-22                              | Nil                                                                    |                     |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2022-23                              | 1 no. completed out of 1280 new Sanctioned Check Dams during 2022-2023 |                     |

| National Mission for Clean Ganga Format for submission of Monthly Progress Report in the NGT Matter O.A. No. 673 of 2018 (in compliance to NGT Order Dtd. 24.09.2020) |                                                                                                          |                                                                                                                                                                                                                                        |                                      |                                             |                                                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------|------------------------------------------------------------------|
| Month - February, 2023                                                                                                                                                |                                                                                                          |                                                                                                                                                                                                                                        |                                      |                                             |                                                                  |
| 3. Name of the Polluted River Stretch :- Brahmani (Rourkela to Birtol)                                                                                                |                                                                                                          |                                                                                                                                                                                                                                        |                                      |                                             |                                                                  |
| Sl No.                                                                                                                                                                | Key Components of Proposed Action Plan for restoration of identified polluted river stretch in the state | Proposed Achievable Target                                                                                                                                                                                                             | Proposed Time Targets for compliance | Present Status or pendency in terms of %age | Remarks                                                          |
| 1                                                                                                                                                                     | 2                                                                                                        | 3                                                                                                                                                                                                                                      | 4                                    | 5                                           | 6                                                                |
| XVII                                                                                                                                                                  | Demarcation of Flood Plain & removal of illegal encroachments:                                           | All the flood plain zones are adequately protected and effectively managed every year. When encroachment are noticed, Revenue Authorities are moved to make the land free from encroachment to maintain the natural flow in the drain. |                                      |                                             |                                                                  |
| XVIII                                                                                                                                                                 | Maintaining minimum e-flows of river                                                                     | e-flow maintained.<br>Integrated watershed management programme is executed through out the state by Odisha Watershed Development Mission.                                                                                             | During lean period from Nov to May.  | Maintained                                  |                                                                  |
| XIX                                                                                                                                                                   | Plantation activities along the river                                                                    | 27373 nos. of saplings and seedlings have been planted along the drainage canals by Sundargarh Irr. Division & 17944 nos. of sapling and seedling have been sown along the canal by Rukura Canal Division during monsoon of 2018.      | During Monsoon 2018.                 |                                             | By Sundargarh Irr. Division and Rukura Canal Division, Rourkela. |

**National Mission for Clean Ganga Format for submission of Monthly Progress Report in the NGT Matter O.A.  
No. 673 of 2018 (in compliance to NGT Order Dtd. 24.09.2020)**

**Month - February, 2023**

**4. Name of the Polluted River Stretch :- Gurudih Nalla (Rourkela)**

| Sl No. | Key Components of Proposed Action Plan for restoration of identified polluted river stretch in the state | Proposed Achievable Target                                                                                                                                                                                                                                                                                                                                                                                                                                           | Proposed Time Targets for compliance | Present Status or pendency in terms of %age                           | Remarks             |
|--------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-----------------------------------------------------------------------|---------------------|
| 1      | 2                                                                                                        | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 4                                    | 5                                                                     | 6                   |
| XIV    | Ground Water regulation:                                                                                 | Govt. of Odisha has formulated an Act for regulation for groundwater namely "The Odisha Ground Water (Regulation, Development and Management) Act, 2011". Central Ground Water Board (CGWB) & District Level Evaluation Committee (DLEC) strictly control the ground water abstraction by the industries. Chief Engineer & Director, Groundwater Development, Bhubaneswar monitors the fluctuation of the groundwater level in all 30 districts in regular interval. |                                      |                                                                       |                     |
| XV     | Good Irrigation Practices being adopted by the state:                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                      |                                                                       |                     |
| XVI    | Rainwater harvesting                                                                                     | Construction of <b>Rooftop Rainwater Harvesting Structure (RRHS) in Govt. and Private Building in towns</b> of Odisha.                                                                                                                                                                                                                                                                                                                                               | 2014-15 to 2018-19                   | 1 no in Govt. Buildings & 76 nos. in Private Buildings                | Rourkela town       |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2019-20                              | Nil                                                                   |                     |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2020-21                              | Nil                                                                   |                     |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2021-22                              | Nil                                                                   |                     |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2022-23                              | 3nos. in Govt. Building in BISRA                                      |                     |
|        |                                                                                                          | Ground Water Recharge through construction of <b>Recharge shaft</b> in tanks and ponds                                                                                                                                                                                                                                                                                                                                                                               | 2019-20                              | 4 nos.                                                                | In Sundargarh Dist. |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2020-21                              | 5 nos.                                                                |                     |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2021-22                              | 5 nos.                                                                |                     |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2022-23                              | 10 nos. through GW Budget and 8 nos. through ARUA Scheme              |                     |
|        |                                                                                                          | Construction of <b>Check Dam</b>                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2019-20                              | 742 nos. upto March,                                                  | In Sundargarh Dist. |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2020-21                              | Nil                                                                   |                     |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2021-22                              | Nil                                                                   |                     |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2022-23                              | 1 no.completed out of 1280 new Sanctioned Check Dams during 2022-2023 |                     |

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**Month - February, 2023**

**4. Name of the Polluted River Stretch :- Gurudih Nalla (Rourkela)**

| <b>Sl No.</b> | <b>Key Components of Proposed Action Plan for restoration of identified polluted river stretch in the state</b> | <b>Proposed Achievable Target</b>                                                                                                                                                                                                         | <b>Proposed Time Targets for compliance</b> | <b>Present Status or pendency in terms of %age</b> | <b>Remarks</b>                                                   |
|---------------|-----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|----------------------------------------------------|------------------------------------------------------------------|
| XVII          | Demarcation of Flood Plain & removal of illegal encroachments:                                                  | All the flood plain zones are adequately protected and effectively managed every year.<br>When encroachment are noticed, Revenue Authorities are moved to make the land free from encroachment to maintain the natural flow in the drain. |                                             |                                                    |                                                                  |
| XVIII         | Maintaining minimum e-flows of river                                                                            | e-flow maintained.<br><br>Integrated watershed management programme is executed through out the state by Odisha Watershed Development Mission.                                                                                            | During lean period from Nov to May.         | Maintained                                         |                                                                  |
| XIX           | Plantation activities along the river                                                                           | 27373 no. of saplings and seedling have been planted along the drainage canals by Sundargarh Irr. Division & 17944 nos. of sapling and seedling have been sown along the canal by Rukura Canal Division during monsoon of 2018.           | During Monsoon 2018.                        |                                                    | By Sundargarh Irr. Division and Rukura Canal Division, Rourkela. |

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**Month - February, 2023**

**5. Name of the Polluted River Stretch :- Mangala (Along Puri)**

| Sl No. | Key Components of Proposed Action Plan for restoration of identified polluted river stretch in the state | Proposed Achievable Target                                                                                                                                                                                                                                                                                                                                                                                                                                              | Proposed Time Targets for compliance | Present Status or pendency in terms of %age               | Remarks       |
|--------|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-----------------------------------------------------------|---------------|
| 1      | 2                                                                                                        | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 4                                    | 5                                                         | 6             |
| XIV    | Ground Water regulation:                                                                                 | Govt. of Odisha has formulated an Act for regulation for groundwater namely "The Odisha Ground Water (Regulation, Development and Management) Act, 2011" . Central Ground Water Board (CGWB) & District Level Evaluation Committee (DLEC) strictly control the ground water abstraction by the industries.<br>Chief Engineer & Director, Groundwater Development, Bhubaneswar monitors the fluctuation of the groundwater level in all 30 districts in regular interval |                                      |                                                           |               |
| XV     | Good Irrigation Practices being adopted by the state:                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                      |                                                           |               |
| XVI    | Rainwater harvesting                                                                                     | Construction of <b>Rooftop Rainwater Harvesting Structure (RRHS) in Govt. and Private Building in towns</b> of Odisha.                                                                                                                                                                                                                                                                                                                                                  | 2014-15 to 2018-19                   | 34 nos in Govt. Buildings & 529 nos. in Private Buildings | Puri town     |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2019-20                              | Nil                                                       |               |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2020-21                              | Nil                                                       |               |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2021-22                              | Nil                                                       |               |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2022-23                              | 3 nos in Govt. Building & 106 nos. in Private Building    |               |
|        |                                                                                                          | Ground Water Recharge through construction of <b>Recharge shaft</b> in tanks and ponds                                                                                                                                                                                                                                                                                                                                                                                  | 2019-20                              | Nil                                                       | In Puri Dist. |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2020-21                              | Nil                                                       |               |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2021-22                              | 20 nos.                                                   |               |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2022-23                              | 26 nos. in GW budget & 7 nos. in ARUA Scheme              |               |
|        |                                                                                                          | Construction of <b>Check Dam</b>                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2019-20                              | 118 nos. upto March,                                      | In Puri Dist. |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2020-21                              | 24 nos.                                                   |               |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2021-22                              | Nil                                                       |               |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2022-23                              | Nil                                                       |               |

| National Mission for Clean Ganga Format for submission of Monthly Progress Report in the NGT Matter O.A. No. 673 of 2018 (in compliance to NGT Order Dtd. 24.09.2020) |                                                                                                          |                                                                                                                                                                                                                                        |                                      |                                             |                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------|-----------------------------|
| Month - February, 2023                                                                                                                                                |                                                                                                          |                                                                                                                                                                                                                                        |                                      |                                             |                             |
| 5. Name of the Polluted River Stretch :- Mangala (Along Puri)                                                                                                         |                                                                                                          |                                                                                                                                                                                                                                        |                                      |                                             |                             |
| Sl No.                                                                                                                                                                | Key Components of Proposed Action Plan for restoration of identified polluted river stretch in the state | Proposed Achievable Target                                                                                                                                                                                                             | Proposed Time Targets for compliance | Present Status or pendency in terms of %age | Remarks                     |
| 1                                                                                                                                                                     | 2                                                                                                        | 3                                                                                                                                                                                                                                      | 4                                    | 5                                           | 6                           |
| XVII                                                                                                                                                                  | Demarcation of Flood Plain & removal of illegal encroachments:                                           | All the flood plain zones are adequately protected and effectively managed every year. When encroachment are noticed, Revenue Authorities are moved to make the land free from encroachment to maintain the natural flow in the drain. |                                      |                                             |                             |
| XVIII                                                                                                                                                                 | Maintaining minimum e-flows of river                                                                     | e-flow maintained.<br>Integrated watershed management programme is executed through out the state by Odisha Watershed Development Mission.                                                                                             | During lean period from Nov to May.  | Maintained                                  |                             |
| XIX                                                                                                                                                                   | Plantation activities along the river                                                                    | 1700 saplings have been planted along the canal colony, office premises by Puri Irr. Division during monsoon of 2018.                                                                                                                  | During Monsoon 2018.                 |                                             | By Puri Irr. Division, Puri |

**National Mission for Clean Ganga Format for submission of Monthly Progress Report in the NGT Matter O.A.  
No. 673 of 2018 (in compliance to NGT Order Dtd. 24.09.2020)**

**Month - February, 2023**

**6. Name of the Polluted River Stretch :- Nagavalli (JK Pur to Rayagada)**

| Sl No. | Key Components of Proposed Action Plan for restoration of identified polluted river stretch in the state | Proposed Achievable Target                                                                                                                                                                                                                                                                                                                                                                                                               | Proposed Time Targets for compliance | Present Status or pendency in terms of %age | Remarks           |
|--------|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------|-------------------|
| 1      | 2                                                                                                        | 3                                                                                                                                                                                                                                                                                                                                                                                                                                        | 4                                    | 5                                           | 6                 |
| XIV    | Ground Water regulation:                                                                                 | Govt. of Odisha has formulated an Act for regulation for groundwater namely "The Odisha Ground Water (Regulation, Development and Management) Act, 2011". Central Ground Water Board (CGWB) & District Level Evaluation Committee (DLEC) strictly control the ground water abstraction by the industries.<br>Chief Engineer & Director, Groundwater Development, Bhubaneswar monitors the fluctuation of the groundwater level in all 30 |                                      |                                             |                   |
| XV     | Good Irrigation Practices being adopted by the state:                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                      |                                             |                   |
| XVI    | Rainwater harvesting                                                                                     | Construction of <b>Rooftop Rainwater Harvesting Structure (RRHS) in Govt. and Private Building in towns</b> of Odisha.                                                                                                                                                                                                                                                                                                                   | 2014-15 to 2018-19                   | Nil                                         |                   |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2019-20                              | Nil                                         |                   |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2020-21                              | Nil                                         |                   |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2021-22                              | Nil                                         |                   |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2022-23                              | Nil                                         |                   |
|        |                                                                                                          | Ground Water Recharge through construction of <b>Recharge shaft</b> in tanks and ponds                                                                                                                                                                                                                                                                                                                                                   | 2019-20                              | Nil                                         | In Rayagada Dist. |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2020-21                              | Nil                                         |                   |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2021-22                              | Nil                                         |                   |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2022-23                              | Nil                                         |                   |
|        |                                                                                                          | Construction of <b>Check Dam</b>                                                                                                                                                                                                                                                                                                                                                                                                         | 2019-20                              | 833 nos. upto March, 2020                   | In Rayagada Dist. |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2020-21                              | Nil                                         |                   |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2021-22                              | 2 nos.                                      |                   |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2022-23                              | Nil                                         |                   |

| National Mission for Clean Ganga Format for submission of Monthly Progress Report in the NGT Matter O.A. No. 673 of 2018 (in compliance to NGT Order Dtd. 24.09.2020) |                                                                                                          |                                                                                                                                                                                                                                        |                                      |                                             |                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------|------------------------------------|
| Month - February, 2023                                                                                                                                                |                                                                                                          |                                                                                                                                                                                                                                        |                                      |                                             |                                    |
| 6. Name of the Polluted River Stretch :- Nagavalli (JK Pur to Rayagada)                                                                                               |                                                                                                          |                                                                                                                                                                                                                                        |                                      |                                             |                                    |
| Sl No.                                                                                                                                                                | Key Components of Proposed Action Plan for restoration of identified polluted river stretch in the state | Proposed Achievable Target                                                                                                                                                                                                             | Proposed Time Targets for compliance | Present Status or pendency in terms of %age | Remarks                            |
| 1                                                                                                                                                                     | 2                                                                                                        | 3                                                                                                                                                                                                                                      | 4                                    | 5                                           | 6                                  |
| XVII                                                                                                                                                                  | Demarcation of Flood Plain & removal of illegal encroachments:                                           | All the flood plain zones are adequately protected and effectively managed every year. When encroachment are noticed, Revenue Authorities are moved to make the land free from encroachment to maintain the natural flow in the drain. |                                      |                                             |                                    |
| XVIII                                                                                                                                                                 | Maintaining minimum e-flows of river                                                                     | e-flow maintained.<br>Integrated watershed management programme is executed through out the state by Odisha Watershed Development Mission.                                                                                             | During lean period from Nov to May.  | Maintained                                  |                                    |
| XIX                                                                                                                                                                   | Plantation activities along the river                                                                    | 5160 no of saplings have been planted in Rayagada Dist. by Rayagada Minor Irrigation Division during monsoon of 2018.                                                                                                                  | During Monsoon 2018.                 |                                             | By Rayagada Minor Irrigation Divn. |

**National Mission for Clean Ganga Format for submission of Monthly Progress Report in the NGT Matter O.A.  
No. 673 of 2018 (in compliance to NGT Order Dtd. 24.09.2020)**

**Month - February, 2023**

**7. Name of the Polluted River Stretch :- Kathajodi (Cuttack to Uralli)**

| Sl No. | Key Components of Proposed Action Plan for restoration of identified polluted river stretch in the state | Proposed Achievable Target                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Proposed Time Targets for compliance | Present Status or pendency in terms of %age               | Remarks          |
|--------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-----------------------------------------------------------|------------------|
| 1      | 2                                                                                                        | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 4                                    | 5                                                         | 6                |
| XIV    | Ground Water regulation:                                                                                 | Govt. of Odisha has formulated an Act for regulation for groundwater namely "The Odisha Ground Water (Regulation, Development and Management) Act, 2011".<br>Central Ground Water Board (CGWB) & District Level Evaluation Committee (DLEC) strictly control the ground water abstraction by the industries.<br>Chief Engineer & Director, Groundwater Development, Bhubaneswar monitors the fluctuation of the groundwater level in all 30 districts in regular interval. | ;                                    |                                                           |                  |
| XV     | Good Irrigation Practices being adopted by the state:                                                    | No irrigation water recharges river Kathajodi (from Cuttack to Uralli)                                                                                                                                                                                                                                                                                                                                                                                                     |                                      |                                                           |                  |
| XVI    | Rainwater harvesting                                                                                     | Construction of <b>Rooftop Rainwater Harvesting Structure (RRHS) in Govt. and Private Building in towns</b> of Odisha.                                                                                                                                                                                                                                                                                                                                                     | 2014-15 to 2018-19                   | 7 nos. in Govt. Buildings & 123 nos. in Private Buildings | Cuttack town     |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2019-20                              | Nil                                                       |                  |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2020-21                              | Nil                                                       |                  |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2021-22                              | Nil                                                       |                  |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2022-23                              | 10 nos. in Govt. Building & 253 nos. in Private Building  |                  |
|        |                                                                                                          | Ground Water Recharge through construction of <b>Recharge shaft</b> in tanks and ponds                                                                                                                                                                                                                                                                                                                                                                                     | 2019-20                              | 5 nos.                                                    | In Cuttack Dist. |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2020-21                              | Nil                                                       |                  |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2021-22                              | Nil                                                       |                  |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2022-23                              | 07 nos. in Cuttack Sadar in ARUA Scheme                   |                  |
|        |                                                                                                          | Construction of <b>Check Dam</b>                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2019-20                              | 699 nos. upto March, 2020                                 | In Cuttack Dist. |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2020-21                              | 6 nos.                                                    |                  |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2021-22                              | 2 nos.                                                    |                  |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2022-23                              | Nil                                                       |                  |

| National Mission for Clean Ganga Format for submission of Monthly Progress Report in the NGT Matter O.A. No. 673 of 2018 (in compliance to NGT Order Dtd. 24.09.2020) |                                                                                                          |                                                                                                                                                                                                                                                     |                                      |                                             |                                                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------|-----------------------------------------------------------------------|
| Month - February, 2023                                                                                                                                                |                                                                                                          |                                                                                                                                                                                                                                                     |                                      |                                             |                                                                       |
| 7. Name of the Polluted River Stretch :- Kathajodi (Cuttack to Uralli)                                                                                                |                                                                                                          |                                                                                                                                                                                                                                                     |                                      |                                             |                                                                       |
| Sl No.                                                                                                                                                                | Key Components of Proposed Action Plan for restoration of identified polluted river stretch in the state | Proposed Achievable Target                                                                                                                                                                                                                          | Proposed Time Targets for compliance | Present Status or pendency in terms of %age | Remarks                                                               |
| 1                                                                                                                                                                     | 2                                                                                                        | 3                                                                                                                                                                                                                                                   | 4                                    | 5                                           | 6                                                                     |
| XVII                                                                                                                                                                  | Demarcation of Flood Plain & removal of illegal encroachments:                                           | All the flood plain zones are adequately protected and effectively managed every year. When encroachment are noticed, Revenue Authorities are moved to make the land free from encroachment to maintain the natural flow in the drain.              |                                      |                                             |                                                                       |
| XVIII                                                                                                                                                                 | Maintaining minimum e-flows of river                                                                     | e-flow maintained.<br>Integrated watershed management programme is executed through out the state by Odisha Watershed Development Mission.                                                                                                          | During lean period from Nov to May.  | Maintained                                  |                                                                       |
| XIX                                                                                                                                                                   | Plantation activities along the river                                                                    | 3250 no saplings have been planted along the canal colony, office premises by Mahanadi South Division-I & 10610 no saplings have been planted along the canal colony, office premises by Mahanadi Barrage Division, Cuttack during monsoon of 2018. | During Monsoon 2018.                 |                                             | By Mahanadi South Division-I & by Mahanadi Barrage Division, Cuttack. |

**National Mission for Clean Ganga Format for submission of Monthly Progress Report in the NGT Matter O.A. No. 673 of 2018 (in compliance to NGT Order Dtd. 24.09.2020)**

**Month - February, 2023**

**8. Name of the Polluted River Stretch :- Serua River (Khandaeta to Sankhatrasa, Cuttack)**

| Sl No. | Key Components of Proposed Action Plan for restoration of identified polluted river stretch in the state | Proposed Achievable Target                                                                                                                                                                                                                                                                                                                                                                                                                                           | Proposed Time Targets for compliance                                                                   | Present Status or pendency in terms of %age                   | Remarks          |
|--------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|------------------|
| 1      | 2                                                                                                        | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 4                                                                                                      | 5                                                             | 6                |
| XIV    | Ground Water regulation:                                                                                 | Govt. of Odisha has formulated an Act for regulation for groundwater namely "The Odisha Ground Water (Regulation, Development and Management) Act, 2011". Central Ground Water Board (CGWB) & District Level Evaluation Committee (DLEC) strictly control the ground water abstraction by the industries. Chief Engineer & Director, Groundwater Development, Bhubaneswar monitors the fluctuation of the groundwater level in all 30 districts in regular interval. |                                                                                                        |                                                               |                  |
| XV     | Good Irrigation Practices being adopted by the state:                                                    | Rotational water supply in Kakatpur Branch Canal system recharges the ground water as well as river or drain.                                                                                                                                                                                                                                                                                                                                                        | In every year, during Kharif crop (1st July to 15th Nov) and Rabi crop (1st week of January to 15th of | Rotational water supply is maintained in Kharif & Rabi crops. |                  |
| XVI    | Rainwater harvesting                                                                                     | Construction of <b>Roof-top Rainwater Harvesting Structure (RRHS) in Govt. and Private Building in towns</b> of Odisha.                                                                                                                                                                                                                                                                                                                                              | 2014-15 to 2018-19                                                                                     | 7 nos. in Govt. Buildings & 123 nos. in Private Buildings     | Cuttack town     |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2019-20                                                                                                | Nil                                                           |                  |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2020-21                                                                                                | Nil                                                           |                  |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2021-22                                                                                                | Nil                                                           |                  |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2022-23                                                                                                | 10 nos. in Govt. Building & 253 nos. in Private Building      |                  |
|        |                                                                                                          | Ground Water Recharge through construction of <b>Recharge shaft</b> in tanks and ponds                                                                                                                                                                                                                                                                                                                                                                               | 2019-20                                                                                                | 5 nos.                                                        | In Cuttack Dist. |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2020-21                                                                                                | Nil                                                           |                  |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2021-22                                                                                                | Nil                                                           |                  |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2022-23                                                                                                | 07 nos. in Cuttack Sadar in ARUA Scheme                       |                  |
|        |                                                                                                          | Construction of <b>Check Dam</b>                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2019-20                                                                                                | 699 nos. upto March, 2020                                     | In Cuttack Dist. |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2020-21                                                                                                | 6 nos.                                                        |                  |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2021-22                                                                                                | 2 nos.                                                        |                  |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2022-23                                                                                                | Nil                                                           |                  |

| National Mission for Clean Ganga Format for submission of Monthly Progress Report in the NGT Matter O.A. No. 673 of 2018 (in compliance to NGT Order Dtd. 24.09.2020) |                                                                                                          |                                                                                                                                                                                                                                                                                |                                      |                                             |                                                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------|------------------------------------------------------------------------------|
| Month - February, 2023                                                                                                                                                |                                                                                                          |                                                                                                                                                                                                                                                                                |                                      |                                             |                                                                              |
| 8. Name of the Polluted River Stretch :- Serua River (Khandaeta to Sankhatrasa, Cuttack)                                                                              |                                                                                                          |                                                                                                                                                                                                                                                                                |                                      |                                             |                                                                              |
| Sl No.                                                                                                                                                                | Key Components of Proposed Action Plan for restoration of identified polluted river stretch in the state | Proposed Achievable Target                                                                                                                                                                                                                                                     | Proposed Time Targets for compliance | Present Status or pendency in terms of %age | Remarks                                                                      |
| 1                                                                                                                                                                     | 2                                                                                                        | 3                                                                                                                                                                                                                                                                              | 4                                    | 5                                           | 6                                                                            |
| XVII                                                                                                                                                                  | Demarcation of Flood Plain & removal of illegal encroachments:                                           | All the flood plain zones are adequately protected and effectively managed every year. When encroachment are noticed, Revenue Authorities are moved to make the land free from encroachment to maintain the natural flow in the drain.                                         |                                      |                                             |                                                                              |
| XVIII                                                                                                                                                                 | Maintaining minimum e-flows of river                                                                     | e-flow maintained.<br>Integrated watershed management programme is executed through out the state by Odisha Watershed Development Mission                                                                                                                                      | During lean period from Nov to May.  | Maintained                                  |                                                                              |
| XIX                                                                                                                                                                   | Plantation activities along the river                                                                    | 3250 nos of saplings have been planted along the canal colony, office premises by Mahanadi South Division-I & 4260 nos of saplings & seedlings have been planted along the canal colony, office premises by Jagatsinghpur Irr. Division, Jagatsinghpur during monsoon of 2018. | During Monsoon 2018                  |                                             | By Mahanadi South Division-I & by Jagatsinghpur Irr. Division Jagatsinghpur. |

**National Mission for Clean Ganga Format for submission of Monthly Progress Report in the NGT Matter O.A. No. 673 of 2018 (in compliance to NGT Order Dtd. 24.09.2020)**

**Month - February, 2023**

**9. Name of the Polluted River Stretch :- Ratnachira (Along Bhubaneswar, Puri)**

| Sl No. | Key Components of Proposed Action Plan for restoration of identified polluted river stretch in the state | Proposed Achievable Target                                                                                                                                                                                                                                                                                                                                                                                                       | Proposed Time Targets for compliance                                                                          | Present Status or pendency in terms of %age                   | Remarks       |
|--------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|---------------|
| 1      | 2                                                                                                        | 3                                                                                                                                                                                                                                                                                                                                                                                                                                | 4                                                                                                             | 5                                                             | 6             |
| XIV    | Ground Water regulation:                                                                                 | Govt. of Odisha has formulated an Act for regulation for groundwater namely "The Odisha Ground Water (Regulation, Development and Management) Act, 2011"<br>Central Ground Water Board (CGWB) & District Level Evaluation Committee (DLEC) strictly control the ground water abstraction by the industries.<br>Chief Engineer & Director, Groundwater Development, Bhubaneswar monitors the fluctuation of the groundwater level |                                                                                                               |                                                               |               |
| XV     | Good Irrigation Practices being adopted by the state:                                                    | Rotational water supply in Sakhigopal Branch Canal, Puri Main Canal & Gobardhanpur Barrage recharges the ground water as well as river or drain.                                                                                                                                                                                                                                                                                 | In every year, during Kharif crop (1st July to 15th Nov). and Rabi crop (1st week of January to 15th of May). | Rotational water supply is maintained in Kharif & Rabi crops. |               |
| XVI    | Rainwater harvesting                                                                                     | Construction of <b>Roof Top Rainwater Harvesting Structure (RRHS) in Govt. and Private Building in towns of Odisha.</b>                                                                                                                                                                                                                                                                                                          | 2014-15 to 2018-19                                                                                            | 34 nos in Govt. Buildings & 529 nos. in Private Buildings     | Puri town     |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2019-20                                                                                                       | Nil                                                           |               |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2020-21                                                                                                       | Nil                                                           |               |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2021-22                                                                                                       | Nil                                                           |               |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2022-23                                                                                                       | 3 nos in Govt. Building & 106 nos. in Private Building        |               |
|        |                                                                                                          | Ground Water Recharge through construction of <b>Recharge shaft</b> in tanks and ponds                                                                                                                                                                                                                                                                                                                                           | 2019-20                                                                                                       | Nil                                                           | In Puri Dist. |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2020-21                                                                                                       | Nil                                                           |               |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2021-22                                                                                                       | 20 nos.                                                       |               |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2022-23                                                                                                       | 26 nos. in GW budget & 7 nos. in ARUA Scheme                  |               |
|        |                                                                                                          | Construction of <b>Check Dam</b>                                                                                                                                                                                                                                                                                                                                                                                                 | 2019-20                                                                                                       | 118 nos. upto March, 2020                                     | In Puri Dist. |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2020-21                                                                                                       | 24 nos.                                                       |               |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2021-22                                                                                                       | Nil                                                           |               |
|        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2022-23                                                                                                       | Nil                                                           |               |

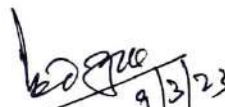
| National Mission for Clean Ganga Format for submission of Monthly Progress Report in the NGT Matter O.A. No. 673 of 2018 (in compliance to NGT Order Dtd. 24.09.2020) |                                                                                                          |                                                                                                                                                                                                                                           |                                      |                                             |                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------|-----------------------------|
| Month - February, 2023                                                                                                                                                |                                                                                                          |                                                                                                                                                                                                                                           |                                      |                                             |                             |
| 9. Name of the Polluted River Stretch :- Ratnachira (Along Bhubaneswar, Puri)                                                                                         |                                                                                                          |                                                                                                                                                                                                                                           |                                      |                                             |                             |
| Sl No.                                                                                                                                                                | Key Components of Proposed Action Plan for restoration of identified polluted river stretch in the state | Proposed Achievable Target                                                                                                                                                                                                                | Proposed Time Targets for compliance | Present Status or pendency in terms of %age | Remarks                     |
| 1                                                                                                                                                                     | 2                                                                                                        | 3                                                                                                                                                                                                                                         | 4                                    | 5                                           | 6                           |
| XVII                                                                                                                                                                  | Demarcation of Flood Plain & removal of illegal encroachments:                                           | All the flood plain zones are adequately protected and effectively managed every year.<br>When encroachment are noticed, Revenue Authorities are moved to make the land free from encroachment to maintain the natural flow in the drain. |                                      |                                             |                             |
| XVIII                                                                                                                                                                 | Maintaining minimum e-flows of river                                                                     | e-flow maintained.<br>Integrated watershed management programme is executed through out the state by Odisha Watershed Development Mission.                                                                                                | During lean period from Nov to May.  | Maintained                                  |                             |
| XIX                                                                                                                                                                   | Plantation activities along the river                                                                    | 1700 saplings have been planted along the canal colony, office premises by Puri Irr. Division during monsoon of 2018.                                                                                                                     | During Monsoon 2018.                 |                                             | By Puri Irr. Division, Puri |

  
 Chief Engineer  
 HH, GIS & CEM

  
 09/03/2023  
 DD, CEM-II

  
 09/03/2023  
 AD, CEM

  
 09/03/2023  
 ADD, CEM-II

  
 9/3/23  
 Director CEM



## Orissa Water Supply & Sewerage Board

(A Govt. of Odisha Undertaking)

Satyanagar, Bhubaneswar-751007 Phone: (0674)2571185

Email eicowssb@gmail.com

No. 555 /dt. 14.02.2023  
W-02/2021

To

The Director, Environment-cum-Special Secretary to Govt.,  
Forest, Environment & Climate Change Department  
Odisha, Bhubaneswar  
Email: env1992@gmail.com

Sub.: Furnishing progress report for the month of January 2023 in connection with compliances to various orders & directions passed by the Hon'ble NGT in OA No. 673/2018, OA No.606/2018 & OA No. 593/2017

Ref.: Letter No. 16246 dt.13.09.2021 of F & E Deptt.

Sir,

With reference to the above, the progress report in connection with compliances to various orders & directions passed by the Hon'ble NGT in OA No. 673/2018, OA No.606/2018 & OA No. 593/2017 for the month of January 2023 are furnished herewith for information & necessary action.

Encl.: As above.

Yours faithfully,

*[Signature]* 14/2/23  
Engineer-in-Chief, OWSSB

Memo No. 556 /dt. 14.02.2023

Copy with copy of enclosures forwarded to the Special Secretary to Govt., H & UD Deptt. (Sanitation Section)/ Member Secretary, State Pollution Control Board, Bhubaneswar for information and necessary action.

Encl.: As above.

*[Signature]* 14/2/23  
Engineer-in-Chief, OWSSB

Memo No. 557 /dt. 14.02.2023

Copy with copy of enclosures forwarded to the Engineer-in-Chief, OISIP, JICA, Cuttack for information and necessary action.

Encl.: As above.

*[Signature]* 14/2/23  
Engineer-in-Chief, OWSSB

Memo No. 558 /dt. 14.02.2023

Copy with copy of enclosures forwarded to the CEO, WATCO, Bhubaneswar for information and necessary action. As no further report received after September 2022, the figures related to WATCO areas has been considered as per report for the month of September-2022. It is requested to submit the required information related to NGT matters preferably in the 1<sup>st</sup> week of every month for compliance & onwards transmission.

Encl.: As above.

*[Signature]* 14/2/23  
Engineer-in-Chief, OWSSB

Memo No. 559 /dt. 14.02.2023

Copy with copy of enclosures forwarded to the Project Engineer (Septage), OWSSB, Bhubaneswar for information and necessary action.

Encl.: As above.

  
Engineer-in-Chief, OWSSB

Memo No. 560 /dt. 14.02.2023

Copy with copy of enclosures submitted to the Engineer-in-Chief (PH), Odisha, Bhubaneswar for information and necessary action. It is requested to furnish the required information to this office regarding STP at Talcher related to NGT matters preferably in the 1<sup>st</sup> week of every month for compliance & onwards transmission.

Encl.: As above.

  
Engineer-in-Chief, OWSSB

OA No. 593/2017 of Hon'ble NGT  
FORMAT FOR SEWAGE MANAGEMENT IN ODISHA

(As on January- 2023)

| Sl.                     | Action Point                                                                                                                                                                  | A                                                                                                                                                                                                                                                                                                                                                                                           | B                  | C= B-A            | D                                                                                           |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-------------------|---------------------------------------------------------------------------------------------|
|                         |                                                                                                                                                                               | Existing Status                                                                                                                                                                                                                                                                                                                                                                             | Desired/ Projected | Gap               | Timeline                                                                                    |
| 1.                      | Estimated Sewage Generation (In MLD)                                                                                                                                          | Bhubaneswar : 52.51                                                                                                                                                                                                                                                                                                                                                                         | 114.97             | 62.46             | Rokat – March -2023<br>Meherpali -Dec.-2022<br>Basuaghai-Dec.-2022<br>Kochilaput March-2023 |
|                         |                                                                                                                                                                               | Cuttack : 21.30                                                                                                                                                                                                                                                                                                                                                                             | 82.54              | 61.24             | March.-2023                                                                                 |
|                         |                                                                                                                                                                               | Sambalpur : 25                                                                                                                                                                                                                                                                                                                                                                              | 43.51              | 18.51             | Dec.-2023                                                                                   |
|                         |                                                                                                                                                                               | Rourkela : 3.70                                                                                                                                                                                                                                                                                                                                                                             | 35.65              | 31.95             | March.-2023                                                                                 |
|                         |                                                                                                                                                                               | Puri : 20.05                                                                                                                                                                                                                                                                                                                                                                                | 20.05              | 0                 |                                                                                             |
|                         |                                                                                                                                                                               | Talcher : 2                                                                                                                                                                                                                                                                                                                                                                                 | 5.29               | 3.29              |                                                                                             |
|                         |                                                                                                                                                                               | <b>Total : 124.56</b>                                                                                                                                                                                                                                                                                                                                                                       | <b>302.01</b>      | <b>177.45</b>     |                                                                                             |
| 2.                      | Treatment Capacity (In MLD)                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                             |                    |                   |                                                                                             |
| a.                      | STP                                                                                                                                                                           | Bhubaneswar : 183.50                                                                                                                                                                                                                                                                                                                                                                        | 183.50             | 0                 | Commissioned on 31.12.2022                                                                  |
|                         |                                                                                                                                                                               | Cuttack : 85                                                                                                                                                                                                                                                                                                                                                                                | 85                 |                   | -                                                                                           |
|                         |                                                                                                                                                                               | Sambalpur : 40                                                                                                                                                                                                                                                                                                                                                                              | 40                 | 0                 | Commissioned during Dec.2022                                                                |
|                         |                                                                                                                                                                               | Rourkela : 40                                                                                                                                                                                                                                                                                                                                                                               | 40                 | -                 | -                                                                                           |
|                         |                                                                                                                                                                               | Puri : 25                                                                                                                                                                                                                                                                                                                                                                                   | 25                 | -                 | -                                                                                           |
|                         |                                                                                                                                                                               | Talcher : 2                                                                                                                                                                                                                                                                                                                                                                                 | 2                  | -                 | -                                                                                           |
|                         |                                                                                                                                                                               | <b>Total : 375.50</b>                                                                                                                                                                                                                                                                                                                                                                       | <b>375.50</b>      | <b>0</b>          |                                                                                             |
| b.                      | Septage                                                                                                                                                                       | <b>1917 KLD (1.917MLD)</b>                                                                                                                                                                                                                                                                                                                                                                  | <b>2057 KLD</b>    | <b>140 KLD</b>    | <b>2022-23</b>                                                                              |
| 3.                      | Status of Sewerage System (in KM)                                                                                                                                             | Bhubaneswar : 988.067                                                                                                                                                                                                                                                                                                                                                                       | 1031.97            | 43.903            | Dec.-2022                                                                                   |
|                         |                                                                                                                                                                               | Cuttack : 422.468                                                                                                                                                                                                                                                                                                                                                                           | 450.20             | 27.73             | March.-2023                                                                                 |
|                         |                                                                                                                                                                               | Sambalpur : 75.50                                                                                                                                                                                                                                                                                                                                                                           | 260.02             | 184.52            | Dec.-2023                                                                                   |
|                         |                                                                                                                                                                               | Rourkela : 169.0                                                                                                                                                                                                                                                                                                                                                                            | 191.90             | 22.9              | Dec.-2022                                                                                   |
|                         |                                                                                                                                                                               | Puri : 128.00                                                                                                                                                                                                                                                                                                                                                                               | 128.00             | -                 | -                                                                                           |
|                         |                                                                                                                                                                               | <b>Total: 1783.035km</b>                                                                                                                                                                                                                                                                                                                                                                    | <b>2062.09 km</b>  | <b>279.053 km</b> |                                                                                             |
| 4.                      | No. of STP                                                                                                                                                                    | Bhubaneswar : 5                                                                                                                                                                                                                                                                                                                                                                             | 5                  | 0                 | Commissioned on 31.12.2022                                                                  |
|                         |                                                                                                                                                                               | Cuttack : 3                                                                                                                                                                                                                                                                                                                                                                                 | 3                  | -                 | -                                                                                           |
|                         |                                                                                                                                                                               | Sambalpur : 1                                                                                                                                                                                                                                                                                                                                                                               | 1                  | 0                 | Commissioned                                                                                |
|                         |                                                                                                                                                                               | Rourkela : 1                                                                                                                                                                                                                                                                                                                                                                                | 1                  | -                 | -                                                                                           |
|                         |                                                                                                                                                                               | Puri : 2                                                                                                                                                                                                                                                                                                                                                                                    | 2                  | -                 | -                                                                                           |
|                         |                                                                                                                                                                               | Talcher : 1                                                                                                                                                                                                                                                                                                                                                                                 | 1                  | -                 | -                                                                                           |
|                         |                                                                                                                                                                               | <b>Total : 13</b>                                                                                                                                                                                                                                                                                                                                                                           | <b>13</b>          | <b>0</b>          | -                                                                                           |
| 5.                      | Has bulk users identified for reuse of treated water such as Industrial Clusters, Metro Rail, India Railways, Infrastructure Projects, Agriculture, Bus Depots and PWD? (Y/N) | Consultation process is underway with respective ULBs, local industries, Govt. & Pvt. Institutions for identifying the bulk users of water & the quantity of water demand by these users. After completion of the above process, revised action plan will be submitted for utilization of treated waste water presently generated from the functioning of STPs as well as from future STPs. |                    |                   |                                                                                             |
| 6.                      | Quantity of treated wastewater being used by Bulk User ( in MLD)                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                             |                    |                   |                                                                                             |
| Industrial Clusters     | -                                                                                                                                                                             | -                                                                                                                                                                                                                                                                                                                                                                                           | -                  | -                 |                                                                                             |
| Metro Rail              | -                                                                                                                                                                             | -                                                                                                                                                                                                                                                                                                                                                                                           | -                  | -                 |                                                                                             |
| Indian Railways         | -                                                                                                                                                                             | -                                                                                                                                                                                                                                                                                                                                                                                           | -                  | -                 |                                                                                             |
| Infrastructure Projects | -                                                                                                                                                                             | -                                                                                                                                                                                                                                                                                                                                                                                           | -                  | -                 |                                                                                             |
| Agriculture             | -                                                                                                                                                                             | -                                                                                                                                                                                                                                                                                                                                                                                           | -                  | -                 |                                                                                             |
| Other (If any specify)  | -                                                                                                                                                                             | -                                                                                                                                                                                                                                                                                                                                                                                           | -                  | -                 |                                                                                             |
| PWD                     | -                                                                                                                                                                             | -                                                                                                                                                                                                                                                                                                                                                                                           | -                  | -                 |                                                                                             |
| 7.                      | No. of water Aquatic sources (Lakes, ponds etc.) being developed through treated waste water.                                                                                 | -                                                                                                                                                                                                                                                                                                                                                                                           | -                  | -                 | -                                                                                           |

FORMAT FOR SEWAGE MANAGEMENT OA No. 593 Jan-23

694 Date 27/7/2020



**Orissa Water Supply & Sewerage Board**  
(A Govt. of Odisha Undertaking)

Satyanagar, Bhubaneswar-751007 Phone: (0674)2570086/2571185  
Email [msowssb@gmail.com](mailto:msowssb@gmail.com) / [ceowssb@gmail.com](mailto:ceowssb@gmail.com) Fax: 2571348

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No. 3297 (W) dt. 22.07.2020  
W-18/2015 (2)

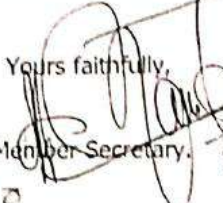
ES(CRP)  
N. K. Mishra  
27/7

To  
The Member Secretary,  
State Pollution Control Board,  
Odisha, Bhubaneswar.

Sub: Compliance of order dtd. 22.06.2020 passed by the Hon'ble NGT in O.A. No. 673/2018 at least one polluted river stretch in each category is restored.

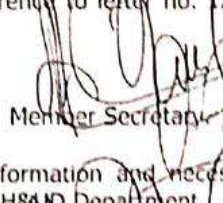
Ref: Letter No.12491 dated 14.07.2019 of H&UD Deptt, Odisha

Sir,  
In inviting a reference to the above, the detail compliance of the order dtd. 22.06.2020 passed by the Hon'ble NGT in O.A. No. 673/2018 at least one polluted river stretch in each category is restored is furnished herewith for information and necessary action.

Yours faithfully,  
  
Member Secretary. 21/07/20

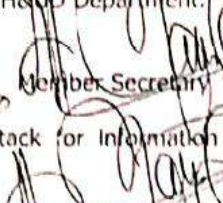
Encl: As above.

Memo No. 3298 /OWSSB Date. 22.07.2020  
Copy with copy of enclosure submitted to the Additional Secretary to Government & Addl. Mission Director, SBM(U), Housing & Urban Development Department, Odisha, Bhubaneswar for kind information and necessary action with reference to letter no. 12491 dt. 14.07.2020 of H&UD Department.

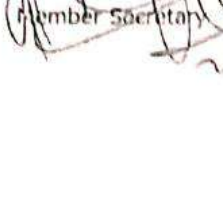
  
Member Secretary. 21/07/20

Encl: As above.

Memo No. 3299 /OWSSB Date. 22.07.2020  
Copy forwarded to the EIC, OISIP, JICA, Cuttack for information and necessary action with reference to the letter No. 12491 dated 14.07.2020 of H&UD Department.

  
Member Secretary. 21/07/20

Memo No. 3300 /OWSSB Date. 22.07.2020  
Copy forwarded the Project Director, PNC, OWSSB, Cuttack for information and necessary action.

  
Member Secretary. 21/07/20

**Action Taken Report for Restoration of Kathajodi river along Cuttack City**

1. Wastewater generation in Cuttack City: 82.54 MLD
2. Wastewater Treatment capacity: (As on February, 2023)

| No.            | Location          | Existing STP Capacity | Capacity Being Utilized | Operational Status of STP                 | Compliance Status of STP                                           |
|----------------|-------------------|-----------------------|-------------------------|-------------------------------------------|--------------------------------------------------------------------|
| <b>Cuttack</b> |                   |                       |                         |                                           |                                                                    |
| 1              | CDA-Bidanasi area | 36 MLD                | 23.31 MLD               | O & M by OISIP, JICA, Cuttack             | Running Smoothly<br>House Sewer connection -March, 2023            |
| 2              | Mattagajpur       | 33 MLD                | 0                       | O & M by WATCO                            | STP is under shut down as drainage work is going on JICA project   |
| 3.             | Mattagajpur       | 16 MLD                | 2.70 MLD                | House sewer connection is under progress. | Sewer network: March, 2023.<br>House Sewer connection- March, 2023 |
|                | <b>Total</b>      | <b>85 MLD</b>         | <b>26.01 MLD</b>        |                                           |                                                                    |

The annual average data of Treated wastewater quality of 36 MLD STP at CDA-Bidanasi area being discharged to Kathajodi river through Peta nallah during the year-2022 (January-December) and 2023 (till February) are as follows.

| Year                                                                     | Annual average and Range of values for various Parameters |                   |                     |                   |                          |                                                |                        |                        |
|--------------------------------------------------------------------------|-----------------------------------------------------------|-------------------|---------------------|-------------------|--------------------------|------------------------------------------------|------------------------|------------------------|
|                                                                          | pH                                                        | BOD, mg/L         | COD, mg/L           | TSS, mg/L         | NH <sub>3</sub> -N, mg/L | PO <sub>4</sub> <sup>3-</sup> -P (total), mg/L | TC                     | FC                     |
|                                                                          |                                                           |                   |                     |                   |                          |                                                | MPN/100ml              |                        |
| <b>2022 (January-December)</b>                                           | 7.1<br>(6.9-7.4)                                          | 5.2<br>(1.5-15.8) | 20.8<br>(12.0-38.0) | 15<br>(10.0-41.0) | 3.59<br>(0.56-10.08)     | 1.08<br>(0.173-5.002)                          | 17365<br>(<1.8-160000) | 15208<br>(<1.8-160000) |
| <b>During 2023</b>                                                       |                                                           |                   |                     |                   |                          |                                                |                        |                        |
| <b>January, 2023</b>                                                     | 6.9                                                       | 4.0               | 16.0                | 12                | 1.68                     | 0.126                                          | 61                     | 40                     |
| <b>February, 2023</b>                                                    | 7.1                                                       | 3.9               | 15.0                | 11                | 5.04                     | 0.425                                          | 49                     | 17                     |
| <b>Effluent Discharge limit for STP (G.S.R. 1265 (E) Dt. 13.10.2017)</b> | 6.5-9.0                                                   | 30                | -                   | < 100             | -                        | -                                              | -                      | < 1000                 |

The 16 MLD STP at Mattagajpur has started functioning from March, 2022. The quality of Treated wastewater quality of this STP being discharged to Kathajodi river through a drain during 2022 (January-December) and 2023 (Till February) are as follows:

| Year                                                                     | Annual average data of various Parameters |                  |                      |                   |                             |                                                      |                    |                   |
|--------------------------------------------------------------------------|-------------------------------------------|------------------|----------------------|-------------------|-----------------------------|------------------------------------------------------|--------------------|-------------------|
|                                                                          | pH                                        | BOD,<br>mg/L     | COD,<br>mg/L         | TSS,<br>mg/L      | NH <sub>3</sub> -N,<br>mg/L | PO <sub>4</sub> <sup>3-</sup> -P<br>(total),<br>mg/L | TC                 | FC                |
|                                                                          |                                           |                  |                      |                   |                             |                                                      | MPN/100ml          |                   |
| <b>2022<br/>(January-December)</b>                                       | 7.2<br>(6.9-7.5)                          | 4.0<br>(3.5-4.9) | 15.57<br>(12.0-22.0) | 11<br>(10.0-13.0) | 2.15<br>(0.56-4.48)         | 0.25<br>(0.11-0.462)                                 | 933<br>(<1.8-4900) | 195<br>(<1.8-680) |
| <b>During 2023</b>                                                       |                                           |                  |                      |                   |                             |                                                      |                    |                   |
| <b>January, 2023</b>                                                     | 7.5                                       | 4.3              | 16.0                 | <10               | 3.36                        | 0.105                                                | 40                 | 40                |
| <b>February, 2023</b>                                                    | 7.1                                       | 1.9              | 15.0                 | 11                | 5.04                        | 0.425                                                | 49                 | 17                |
| <b>Effluent Discharge limit for STP (G.S.R. 1265 (E) Dt. 13.10.2017)</b> | 6.5-9.0                                   | 30               | -                    | < 100             | -                           | -                                                    | -                  | < 1000            |

At present there is no wastewater discharge from 33 MLD STP at Mattagajpur to Kathajodi River.

#### Characteristic of Drains falling on Kathajodi river (February, 2023)

| Sl. No | Station Name                                                 | Parameters |              |              |              |           |         |
|--------|--------------------------------------------------------------|------------|--------------|--------------|--------------|-----------|---------|
|        |                                                              | pH         | BOD,<br>mg/l | COD,<br>mg/l | TSS,<br>mg/l | TC        | FC      |
|        |                                                              |            |              |              |              | MPN/100ml |         |
| 1      | Wastewater discharge to Kathajodi river at Mattagajpur       | 7.3        | 4.0          | 25.0         | 13.0         | 28000     | 9400    |
| 2      | Wastewater discharge to Kathajodi river at CDA-Bidanasi area | 7.2        | 3.4          | 41.0         | 18.0         | 1200      | 400     |
| 3      | Wastewater discharge to Kathajodi river at Khannagar         | 7.1        | 63.0         | 140.0        | 203.0        | >160000   | >160000 |

The annual average of Wastewater quality discharge through Khan nagar sluice gate to Kathajodi river during 2022 and 2023(Till February) are as follows-

| Year                  | Annual average data of various Parameters-2022 |                   |                     |                |           |           |
|-----------------------|------------------------------------------------|-------------------|---------------------|----------------|-----------|-----------|
|                       | pH                                             | BOD, mg/L         | COD, mg/L           | TSS, mg/L      | TC        | FC        |
|                       |                                                |                   |                     |                | MPN/100ml |           |
| <b>2022 (Jan-Dec)</b> | 7.04<br>(6.0-7.3)                              | 73.06<br>(48-105) | 176.37<br>(136-236) | 90<br>(35-144) | >1,60,000 | >1,60,000 |

| During 2023     |         |      |       |       |           |           |
|-----------------|---------|------|-------|-------|-----------|-----------|
| January, 2023   | 7.2     | 78.0 | 152.0 | 80.0  | >1,60,000 | >1,60,000 |
| February, 2023  | 7.1     | 63.0 | 140.0 | 203.0 | >1,60,000 | >1,60,000 |
| Standard limit* | 5.5-9.0 | 30   | 250   | 100   | -         | -         |

**General discharge standard of Environmental Pollutants –Schedule-VI (G.S.R. 422(E) dated 19.5.1993)**

After all projected house sewer connections to the 36 MLD STP at CDA-Bidanasi area, water quality of the wastewater discharge to Kathajodi river through Peta nallah at CDA-Bidanasi area will be significantly improved. The expected timeline for completion of house sewer connections is March, 2023.

Similarly, after completion of all house hold sewer connections to the 16 MLD STP at Mattagajpur, there will be no discharge of wastewater to the river at Kathajodi river through Khan nagar sluice gate. The expected timeline for completion of house sewer connections is March, 2023.

Besides these, a Septage Treatment Plant of 60 KLD capacity has been commissioned at Mattagajpur and operating since January, 2020.

Water quality of the Kathajodi river and Serua river (which is a distributary of Kathajodi river) during February, 2023 is given below. Water quality of Kathajodi river and Serua river did not conform to the prescribed limit for BOD, Total Coliform and Fecal coliform

**Polluted River stretch: February,2023**

| Name of polluted river stretch                                             | Name of Monitoring Station  | pH      | DO, mg/L | BOD, mg/L | TC, MPN/ 100 mL | FC, MPN/ 100 mL                       | FS, MPN/ 100 mL                              | Water Quality Status (Conforming (C) / Non-Conforming (NC)) |
|----------------------------------------------------------------------------|-----------------------------|---------|----------|-----------|-----------------|---------------------------------------|----------------------------------------------|-------------------------------------------------------------|
| 1. Kathajodi River (Cuttack to Urali) (Priority-III)                       | Cuttack D/s                 | 8.1     | 8.8      | 3.8       | 160000          | 24000                                 | 170                                          | NC                                                          |
|                                                                            | Cuttack FD/s at Mattagajpur | 7.9     | 7.5      | 3.2       | 4900            | 1300                                  | 49                                           | NC                                                          |
| 2. Serua River (Khandaeta to Sankhatrasa) (Priority-V)                     | Cuttack FD/s at Sankhatrasa | 7.9     | 7.2      | 3.6       | 160000          | 54000                                 | 79                                           | NC                                                          |
| Bathing Water Quality (MOEF Notification G.S.R. No. 742(E) Dt. 25.09.2000) |                             | 6.5-8.5 | 5.0, min | 3.0, max  | -               | 500 (Desirable)<br>2500 (permissible) | 100 (Desirable)<br>500 (Maximum Permissible) |                                                             |

## Regulation of mining activities in Odisha

### Overview of mining activities in Odisha

In Odisha, 249 major mineral mines of different categories are under the consent administration of State Pollution Control Board. Major mineral mines are under Coal, Iron and Manganese, Chromite, Bauxite, limestone and Dolomite sector. The details of the mines as well as mines having valid consent till 22.10.2020 is given in Table – 1.

**Table – 1: Major mines under consent administration of State Pollution Control Board**

| Sl. No.      | Mineral Ore            | No. of Mines | Mines having valid consent |
|--------------|------------------------|--------------|----------------------------|
| 1.           | Coal                   | 32           | 29                         |
| 2.           | Iron & Manganese       | 164          | 70                         |
| 3.           | Chromite               | 21           | 13                         |
| 4.           | Bauxite                | 07           | 06                         |
| 5            | Limestone and Dolomite | 25           | 09                         |
| <b>Total</b> |                        | <b>249</b>   | <b>127</b>                 |

There are also 1481 nos. of other mines which are mostly Graphite, Quartzite, Pyrophyllite, Fireclay, Soapstone, China-clay, Gemstone, Mineral sand, Stone quarry and Sand mines etc. The major mineral mines i.e. Coal, Iron, Manganese, Chromite and Bauxite are mostly concentrated in seven mining clusters of Joda-Barbil-Koira, Talcher-Angul, Ib-Valley, Hemgiri block, Sukinda, Sundargarh and Raygada-Koraput area. The distribution of mines in these clusters are presented in Table – 2.

**Table – 2: Mines in different cluster of Odisha**

| Sl. No. | Cluster                                          | Mineral          | Nos. of Mines in cluster | Total nos. of mines in the different sector | Percentage of total mines in the cluster |
|---------|--------------------------------------------------|------------------|--------------------------|---------------------------------------------|------------------------------------------|
| 1.      | Joda-Barbil – Koira<br>(Keonjhar and Sundergarh) | Iron & Manganese | 128                      | 164                                         | 90%                                      |
| 2.      | Talcher (Angul)                                  | Coal             | 15                       | 32                                          | 47%                                      |
| 3.      | Ib Valley (Jharsuguda)                           | Coal             | 10                       |                                             | 31%                                      |
| 4.      | Hemgiri block<br>(Sundargarh )                   | Coal             | 05                       |                                             | 16%                                      |
| 5.      | Sukinda (Jajpur)                                 | Chromite         |                          | 21                                          | 81%                                      |

|              |                                              |                      |            |            |            |
|--------------|----------------------------------------------|----------------------|------------|------------|------------|
| 6.           | Sundargarh<br>(Sundargarh)                   | Limestone & Dolomite | 22         | 25         | 88%        |
| 7.           | Raygada-<br>Koraput(Rayagad and,<br>Koraput) | Bauxite              | 05         | 07         | 71%        |
| <b>Total</b> |                                              |                      | <b>202</b> | <b>249</b> | <b>81%</b> |

The mines in cluster constitute about 81% of total mines in the respective sectors.

### Measures taken for abatement of pollution due to mining activities

Consent is granted to the mines under the above provisions stipulating conditions related to prevention and control of environmental pollution. Status compliance of the stipulated conditions is periodically verified by the Board officials and appropriate action is taken based on the status compliance of the stipulation. The pollution mitigation measures of individual mines in a specific sector are summarized in Table 3.

**Table 3: Pollution Mitigation Measures taken by mines in different Sectors**

| Sl. No. | Mines | Water pollution mitigation measures                                                                                                                                                                                                                                                                                                                                                                                                      | Air pollution mitigation measures                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|---------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.      | Coal  | <ul style="list-style-type: none"> <li>Garland drain and provision of settling pond/ mine sump for surface runoff management</li> <li>Effluent Treatment Plant for mine drainage water</li> <li>Sewage Treatment Plant for domestic effluent</li> <li>Oil and Grease Trap for treatment of workshop effluent</li> <li>Concurrent back filling of mined out voids using internal burden and followed by biological reclamation</li> </ul> | <ul style="list-style-type: none"> <li>Deployment of surface miner with inbuilt dust suppression system replacing Blasting and Dumper –Shovel combination method of mining..</li> <li>Wet drilling and controlled blasting of over burden(OB) to minimize dust generation</li> <li>Water sprinkling system at various dust generating sources to control fugitive dust emission</li> <li>Black topping and proper maintenance of permanent coal transportation roads to reduce fugitive dust generation</li> <li>Avoiding creation of ruts and pot holes on haul roads of mine to minimize generation of fugitive dust</li> <li>Plantation</li> </ul> |

|    |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|----|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2. | Iron & Manganese       | <ul style="list-style-type: none"> <li>• Toe wall, garland drain and sedimentation basin for runoff management</li> <li>• check dam and check weirs at strategic location of the mine for runoff management</li> <li>• Stabilization of OB by covering it with geotextile/coir matting and plantation</li> <li>• Sewage Treatment Plant for domestic effluent in large mines having colony/Discharge of domestic effluent to soak pit via septic tank</li> <li>• Oil and Grease separation system for treatment of workshop effluent</li> </ul> | <ul style="list-style-type: none"> <li>• Wet drilling and controlled blasting to minimize dust generation</li> <li>• Water sprinkling on haul roads and dry-fog system in mineral handling plants for control of fugitive dust</li> <li>• Proper maintenance of haul roads to prevent generation of dust</li> <li>• Disposal of tailings generated from ore beneficiation plant into tailing pond and recirculation of overflow water/discharge after settling of tailings</li> <li>• Plantation</li> </ul> |
| 3. | Chromite               | <ul style="list-style-type: none"> <li>• Effluent Treatment Plant for treatment of mine drainage water and surface runoff water</li> <li>• Toe wall and garland drain</li> <li>• Stabilization of OB by coir matting and plantation</li> <li>• Sewage Treatment plant for domestic effluent/or discharge into soak pit via septic tank</li> </ul>                                                                                                                                                                                               | <ul style="list-style-type: none"> <li>• Wet drilling and controlled blasting to minimize dust generation</li> <li>• Water sprinkling on haul roads to minimize dust generation</li> <li>• Plantation</li> </ul>                                                                                                                                                                                                                                                                                            |
| 4. | Limestone and Dolomite | <ul style="list-style-type: none"> <li>• Toe wall and garland drain</li> <li>• Settling pond</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                         | <ul style="list-style-type: none"> <li>• Wet drilling and controlled blasting to reduce dust generation</li> <li>• Water sprinkling on haul roads to prevent dust generation</li> <li>• plantation</li> </ul>                                                                                                                                                                                                                                                                                               |
| 5. | Bauxite                | <ul style="list-style-type: none"> <li>• Check dam for surface runoff management</li> <li>• Effluent Treatment Plant for workshop and canteen effluent</li> <li>• Back filling of mined out area using overburden</li> </ul>                                                                                                                                                                                                                                                                                                                    | <ul style="list-style-type: none"> <li>• Deployment of ripper dozer to minimize dust generation</li> <li>• Water sprinkling on haul roads to control dust emission</li> <li>• Plantation</li> </ul>                                                                                                                                                                                                                                                                                                         |

Inbox (7,632) - urpatnaik@ospdc X Admin NMCG

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31-03-2023

**National Mission for Clean Ganga**  
(Registered Society, Under Act 1860)  
Ministry of Jal Shakti  
Department of Water Resources, River Development & Ganga Rejuvenation  
Government of India

नमो गंगे

ENTRY FORMS

Grievance Report

**Grievance Report**

Grievance till Date: 0 Pending till Date: 0 Disposed till Date: 0

1. Within a month of receipt, States are requested to provide response to the grievance at their own end.
2. States to update the response status against the grievance in the Remarks column in order to dispose off the matter.
3. Grievance found to be inappropriate may be rejected by the States and remarks for the same may be submitted.
4. Status of grievances shall be made part of the quarterly submission to NGT by NMCG.

\* Date From (DD/MM/YYYY) \* Date To (DD/MM/YYYY)

01/02/2023 28/02/2023

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