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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
Bhubaneswar – 751 012

VISC(LEM)Proj-304 (Vol-V)/2023-24

Email : ed-technical@nmcg.nic.in
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No. 17196

Date : 02.11.2023

To

Executive Director, Technical
National Mission for Clean Ganga,
Department of Water Resources, River Development & Ganga Rejuvenation,
Ministry of Jal Shakti, 1st Floor, Major Dhyan Chand National Stadium,
India Gate, New Delhi – 110002

Sub: Submission of Monthly Progress Report for September- 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
September 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. 17197

Dt. 02.11.2023

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. 17198

Dt. 02.11.2023

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

Encl : As above

Chief Env. Scientist



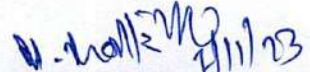
Contd..

Memo No. 17199

Dt. 02.11.2023

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

Encl : As above

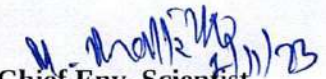

Chief Env. Scientist

Memo No. 17200

Dt. 02.11.2023

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

Encl : As above

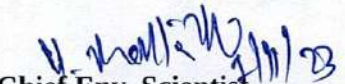

Chief Env. Scientist

Memo No. 17201

Dt. 02.11.2023

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

Encl : As above


Chief Env. Scientist

Status of Polluted river stretches identified during 2022

Priority category during 2022 (CPCB Publication “Polluted river stretches for restoration of Water Quality- 2022”)				Action plan under implementation/ proposed*	Present status	
River	Name of Polluted River Stretch	Priority	Numbers		2022 (Jan-Dec) (BOD mg/L, max)	2023 (Jan- September) (BOD mg/L, max)
Gangua nallah	Gangua nallah along Bhubaneswar	I	1	Action plan has been approved by CPCB and under Implementation May be downloaded from the weblink : www.rrcodisha.org/action- plan/	Priority-III (16.0)	Priority-III (18.0)
Daya	Daya along Narankheta to Kanas	IV	3		Priority-V (5.6)	Priority-V (4.8)
Kuakhai	Kuakhai along Bhubaneswar	IV			Clean (1.9)	Clean (1.7)
Mangala	Mangala along Golasahi	IV			Priority-V (4.4)	Clean (2.8)
Kathajodi	Kathajodi along Cuttack	V	3		Priority-V (4.4)	Priority-V (4.2)
Serua	Serua along Sankhatrasa	V			Priority-V (4.2)	Priority-V (3.7)
Brahmani	Brahmani along Rourkela	V			Priority-V (5.7)	Priority-V (5.3)

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 September, 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 : 375.50 MLD
 - STPs under Construction : Nil
 - Total Number of STPs and Treatment Capacity (in MLD): 13 STPs : 375.50 MLD
 - Capacity Utilization of existing STPs: 158.14 MLD
 - Sewage being treated through Alternate technology: [Faecal Sludge Treatment Plant (FSTP)]
 - Existing number of FSTPs and Treatment capacity : 113 FSTPs : 1947 KLD (1.937 MLD)
 - FSTPs under construction : 7 FSTPs : 140 KLD (0.14 MLD)
 - Total number of FSTPs and Treatment capacity : 120 FSTPs : 2087 KLD (2.087 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 120 FSTPs : 2.087 MLD
- (iv) Total capacity for treatment through 13STPs and 120 FSTPs : 377.59 MLD
- (v) Balance wastewater to be treated (i)-(iv) : 502.41 MLD

Through Grey Water Management System (Now under piloting stage)

- Time frame for completion of balance 7 SeTPs (FSTP) out of total 120 SeTPs

➤ November, 2023 : 1. Dharamgarh (10 KLD), 2. Koraput (20 KLD), 3. Burla (20 KLD), 4. Hirakud (20 KLD), 5. Jajpur (20 KLD), 6. Remuna NAC (20 KLD) & 7. Dhenkanal-II (30 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 areas = 13 Nos. of STPs with total installed capacity; 375.50 MLD

Gap in installed treatment capacity: $375.50 - 375.50 = 0$ MLD

- 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

- **Grey Water Management in Odisha**

In all the 115 ULBs, FSTPs have been provided for treatment of faecal sludge from onsite sanitation systems. 113 FSTPs out of 120 have been commissioned and 7 are in progress. Target date for completion of these 7 FSTPs is within November, 2023.

For greywater management in the ULBs, on the basis of learning from the pilot conducted in 4 geographical areas of two cities- Jatni (M) and Dhenkanal (M), and recommendation of the Expert Committee formed as per the direction of the Hon'ble NGT, Scale-up strategy and Toolkit has been developed for the city wide scale up of Grey water management in the State.

Interventions are to be provided at four different levels as mentioned below:

1. Household level - Magic Soak pits can be provided at household level
2. Lane level - Hybrid leach pits with absorption trenches can be provided in lanes.
3. Community level—Constructed Wetland can be provided at community level wherever space is available.
4. Outfall level - For the left-over water which is received at outfall points of the drains due to non-availability of space at household, lane and community level following technologies can be adopted depending on the situation- Waste stabilization pond and maturation pond, Constructed Wetland or Facultative aerated lagoons. CPHEEO manual can also be referred for adopting other nature based technologies at the outfall point.

Management of grey water at household and lane level is absorption-based structures. The treated water from community level treatment and at outfall level treatment will conform to the general discharge norms of CPCB/MoEF & CC.

For Gray Water Management, following steps have been taken;

- Approval has been obtained for implementation of Grey Water Management (GWM) in 110 ULBs excluding 5 ULBs having sewerage system
- After successful implementation of grey water management pilot project at Dhenkanal and Jatni, the work has been taken up in 11 lighthouse ULBs namely, Angul, Balasore, Bargarh, Chatrapur, Dhenkanal, Hinjilcut, Jatni, Jajpur, Keonjhar, Koraput, Nayagarh.
- Tender has been invited for state level PMU for Grey water management which will be finalized shortly.
- Each ULB will have a Project Implementation Unit (PIU) for implementation of GWM. The ULB level PIU consists of GWE, M&E Expert, GIS Expert & TULIP Engineers.
- The TULIP Engineers and GIS Expert have been engaged for these 11 lighthouse ULBs.
- A 2-day state level workshop was organized by H & UD Department for Chairpersons, Vice- Chairpersons, EO, ME, JE, MIS, TULIPs & other technical staffs for implementation of GWM in 11 lighthouse ULBs.
- Further, the ULBs have conducted a training/ orientation session at their respective ULB level for the elected representatives, Swachha Sathis & MSGs.
- The household survey has been initiated jointly by TULIP Engineers and Swach Sathis in their respective wards allotted.
- The GIS Experts have been oriented and trained for digital mapping of all the household, lanes and drains in the ULB.

The timeline for implementation of GWM in 11 ULBs in 2023-24. The timeline for rest 99 ULBs is scheduled by 2023-24 to 2024-25.

GREY WATER MANAGEMENT SURVEY WORK PROGRESS TRACKER- SUMMARY (Till 30-09-2023)

	Angul	Balasore	Bargarh	Chatrapur	Dhenkanal	Hinjilcut	Jajpur	Jatni	Keonjhar	Koraput	Nayagarh
Total No. of Households in Ward	13373	20128	16615	4453	17290	7659	9173	11598	17937	11422	5228
Households surveyed	6815	13451	5704	4199	11787	6021	6882	9428	12927	6279	2292
Percentage of household survey completed	50.96 %	66.83 %	34.33 %	94.30 %	68.17 %	78.61%	75.02 %	81.29 %	72.07 %	54.97 %	43.84%
Polluters Identified	176	2585	2726	757	438	1054	3742	1752	2190	596	90
No. of Interventions identified at HH level	367	650	537	213	911	287	3739	986	280	390	163
Total No. of lanes	447	1209	1008	520	1460	451	627	981	1339	1011	260
No. of lanes surveyed	220	603	469	520	766	177	484	518		181	171
No. of Interventions identified at lane level	15	13		9		4		11		1	
No. of Interventions identified at Community level				22		2		7			
No. of Interventions identified at outfall level		1	4				7				

Details of each existing STP in the State

No.	Location	Existing STP Capacity	Capacity Being Utilized	Operational Status of STP	Compliance Status of STP
	Cuttack				
1	CDA-Bidanasi area	36 MLD	26.75 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	5.67 MLD	O & M by OISIP, JICA, Cuttack	Running Smoothly
	Puri				
4	Mangalaghat	15 MLD	15 MLD	O & M by WATCO	Running Smoothly
5	Bankimuhan	10 MLD	5.05 MLD		Running Smoothly
	Talcher				
6	Mandapal	2 MLD	2 MLD	O & M by PHEO	Running Smoothly
	Bhubaneswar				
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	22.76 MLD	JICA	Commissioned on 31.12.2022
	Rourkela				
12	Ruptala Balughat	40 MLD	7.41 MLD	Partly Commissioned since Feb, 2021 O & M by WATCO from June, 2022	Running Smoothly
	Sambalpur				
13	Sambalpur	40 MLD	25 MLD	OWSSB	Interception and Diversion of Dhobijhor nallah
Total : 13 STPs		375.50 MLD	158.14 MLD		

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, Bhubaneswar	48	Commissioned on 31.12.2022	43.22 % (15561 out of 36000 Nos)	Network : December, 2023; House Sewer Connection : June, 2024
		Meherpalli, Bhubaneswar	56	Commissioned	47.50 % (35747 out of 75269)	Network : December, 2023; House Sewer Connection : June, 2024
		Basuaghai, Bhubaneswar	28		65% (24462 out of 37634)	
		Kochilaput, Bhubaneswar	43.5		43.07 % (25187 out of 58468)	
		Paikarapur, Bhubaneswar	8		100 % (10753 out of 10753)	Completed
2	2	Cuttack				
		Mattagajpur (ASP)	16	Commissioned since 01.3.2022	House sewer connection is under progress. After completion of all house sewer connections, wastewater will not be discharged to river Kathajodi	Sewer network : October ,2023 House Sewer connection-May, 2024
		CDA, Cuttack	36	Commissioned since 27.11.2019	44.96% (22130/ 49222 Nos.)	
3	1	Sambalpur	40	STP is commissioned during December,2022 and treating around 25 MLD wastewater from Dhobijore nallah	0.3 % (105/30,635 Nos.)	Sewer Network (part): March, 2023, House Sewer Connection (Part) : December, 2023
4	1	Rourkela	40	Commissioned since February, 2021	12.69% (1523/ 12000 Nos.)	Sewer network-December, 2023 & House Sewer connection-March, 2024

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 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, 113 SeTPs have already been constructed in 108 ULBs and construction of 7SeTPs are under progress which will cover rest 7 ULBs.				

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

Financial Year	Budgetary Provision under Urban Septage System (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)
as Annexure-1)

IV. Details of Industrial Pollution:

- Total Number of Industries : 7366
- No. of water polluting industries in the State: 1368
- Quantity of effluent generated from the industries in MLD: 818. 4801 MLD
(For treatment)
- Quantity of Hazardous Sludge generated from the Industries in TPD : 141.9 TPD
- Number of industrial units having ETPs: 1327
- 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 : 1327 Numbers, 1040.171 MLD
Under Construction : Nil
Proposed : Nil
Total : 1327 Numbers, 1040.171 MLD
- Compliance status of the ETPs:
 - As per the frequency of inspection norms vide Office Order No. 1081 dated 31.01.2020, ETPs of 51 numbers of Industries have been inspected for compliance status during September, 2023. Out of these, 38 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 numbers of units for not having ETPs.

During September, 2023, for non-compliance of ETP discharge norms, show cause notices have been issued to 13 nos. 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: 2256 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	255	1198	83 %
Materials Recovery Facility (MRF)	218	2240	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) : 255 Nos.(Capacity : 1198.5 TPD)
 - Number of Functional Material Recovery Facilities (MRF): 218 Nos. (Capacity: 2240 TPD)
 - MSW processing facilities Under Construction:
 - Composting Facility - Micro Composting Centres (MCC): 23 Nos. (Capacity: 97.5 TPD)
 - Material Recovery Facilities (MRF): 5 Nos. (Capacity: 50 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 (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)
(Month-wise data is not available. Month-wise 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 13th 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 : Lakhampur, 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: 135 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 is sold off to registered plastic recyclers for further processing and recycling.
 - Non-Recyclable Plastic Wastes 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 1.947 KLD (1.947 MLD) septage is being treated through Septage Treatment Plants in 113 Nos. of SeTPs in ULBs of the State against the 120 SeTPs in 115 ULBs. Balance 7 Nos. of SeTPs (140 KLD) are under progress. Time Frame for completion of these 7 Nos. of SeTP are within November, 2023.

For greywater management in the ULBs, on the basis of learning from the pilot conducted in 4 geographical areas of two cities- Jatni (M) and Dhenkanal (M), and recommendation of the Expert Committee formed as per the direction of the Hon'ble NGT, Scale-up strategy and Toolkit has been developed for the city wide scale up of Grey water management in the State.

**(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, Nine 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, 18.01.202, 07.04.2022, 18.11.2022, 17.03.2023 and 24.7.2023.

(Minutes of 9th 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 4th RRC Meeting as received from Forest, Environment and Climate Change Department , Govt. of Odisha has been attached as Annexure-3)

A review meeting on Restoration of Gangua and Daya river under the chairmanship of the Addl. Chief Secretary to Govt. in Forest, Environment and Climate Change has been conducted on Dt. 19.7.2023.

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

A review meeting on save Daya under the chairmanship of Principal Secretary to Govt, H & UD Department, has been conducted on Dt.10.08.2023.

(Minutes of Review Meeting received from Orissa Water Supply & Sewerage Board has been attached as Annexure-5)

XIII. Latest water quality of seven polluted river stretches (as per CPCB report -2022), its tributaries, drains with flow details and ground water quality in the catchment of polluted river along with rest 12 stretches (declared as clean) are enclosed as Annexure-6.

Status of these 19 Polluted River stretches in the State of Odisha during the period 2017-2023 (Upto September, 2023) with maximum BOD values during the year is given as Annexure-7(a)

and Summary of number of polluted river stretches under different category during the period 2017-2023 (upto September, 2023) is given as Annexure-7 (b).

Latest water quality of all river water quality monitoring stations (129 numbers) (September, 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)

	Govt.		Private	
2018-19	358 Nos.		9438 Nos.	
2019-20	Nil		Nil	
2020-21	Nil		Nil	
2021-22	Nil		Nil	
2022-23	282		3487	
2023-24 (Upto September,2023)	Taken up	Completed	Taken up	Completed
	372	233	4236	4880

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	748 nos. (Completed)
		2023-24	Taken up : 478 nos. Completed upto 09/2023 : 350
(ii)	Through Check Dams	2010-11 to 2019-20	15604 Nos.
		2020-21	229 Nos.
		2021-22	34 Nos.
		2022-23	220 Nos.
		2023-24 (upto 09/2023)	88 Nos.

XVII. Demarcation of Floodplain and removal of illegal encroachments:

Out of 9 Nos. of polluted river stretches, in Gangua nallah (Priority No. I), a proposal for construction of across regulator at the off taking point of Gangua nalla has been approved in 128th 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 detailed below based on the maximum BOD value observed during the year 2019 and 2021 (2020 not considered due to pandemic). However, as per BOD, maximum during January-September, 2023, river water quality status of these seven stretches is given below. Water quality status of previously identified 19 stretches is given in Annexure-7(a).

Priority category during 2022			Priority during Jan-September, 2023
Priority	Numbers	Name of Polluted River Stretch	(BOD, mg/L, max)
Priority-I	1	• Gangua nallah along Bhubaneswar	Priority-III (18.0)
Priority-IV	3	• Daya along Narankheta to Kanas	Priority-V (4.8)
		• Kuakhai along Bhubaneswar	Clean (1.7)
		• Mangala along Golasahi	Clean (2.8)
Priority-V	3	• Kathajodi along Cuttack	Priority-V (4.2)
		• Serua along Sankhatrasa	Priority-V (3.7)
		• Brahmani along Rourkela	Priority-V (5.3)

Rest 12 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 51 numbers of Industries have been inspected for compliance status during September, 2023. Out of these, 38 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 September, 2023, for non-compliance of ETP discharge norms, show cause notices have been issued to 13 nos. 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 September, 2023. Extract of the Grievance report for the period 01.09.2023 to 30.09.2023 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.: 20939 Date: 20.10.2023

From

Pravat Kumar Mohapatra, OAS (SAG)
Additional Secretary to Government &
Additional Mission Director, SBM (Urban)

To

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

Sub: Submission of Monthly Progress Report for September, 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,

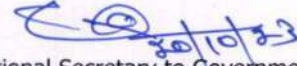
I am directed to send herewith the Monthly Progress Report [MPR] for the month of September, 2023 in the revised format for onward transmission to the Central Pollution Control Board (CPCB), New Delhi and Secretary, Ministry of Jal Shakti in compliance to Order Dated 06.12.2019 of the Hon'ble NGT passed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

Yours faithfully,

Additional Secretary to Government &
Additional Mission Director, SBM (Urban)

Memo No. 20940 /HUD, Date: 20.10.2023

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.



Additional Secretary to Government &
Additional Mission Director, SBM (Urban)

MPR FOR THE MONTH OF SEPTEMBER-2023

V. Solid Waste Management:

- Total number of Urban Local Bodies: 115
- Population: 60,69,229 (as per 2011 census)
- Current Municipal Solid Waste Generation: 2,256 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 (in TPD)	Capacity Utilization
Compost Plant – Micro Composting Centre (MCC) & 1(One) Mechanical Composting Plant	255	1,198.5	83%
Materials Recovery Facility (MRF)	218	2,240	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 number of wards, having door to door collection service, number 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)	Functional	Under Execution
Composting Facility-Micro Composting Center (MCC)	278 MCCs (Capacity: 1,296 TPD)	255 MCCs (Capacity: 1,198.5 TPD)	23 MCCs (Capacity: 97.5 TPD)
Material Recovery Facility (MRF)	223 MRFs (Capacity: 2,290 TPD)	218 MRFs (Capacity: 2,240 TPD)	5 MRFs (Capacity: 50 TPD)

- Number and area (in acres) of uncontrolled garbage dumpsites and Sanitary Landfills.
 - ✓ Garbage dumpsites: 76 numbers (371 Acre approx.)
 - ✓ Sanitary Landfill: Nil
- Number and area (in acres) of legacy waste within 1 km buffer of both side of the rivers: Nil
- Number of drains falling into rivers and no. of drains having floating racks/screens installed to prevent solid waste from falling into the rivers:
 - ✓ Number 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

VIII. Plastic Waste Management:

- Total Plastic Waste generation: 135 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 Waste	Dry Waste	Wet Waste	Dry Waste	Wet Waste	Dry Waste	Wet Waste	Dry Waste	Wet Waste	Dry Waste	
1	Anandpur (M)	6.8	6.24	6.8	6.24	10	20	68%	31%	0	0	
2	Angul (M)	8.84	8.03	8.84	8.03	12	30	74%	27%	0	0	
3	Asika (NAC)	3.5	3.48	3.5	3.48	10	20	35%	17%	0	0	
4	Athagad (NAC)	3	2.71	3	2.71	3.5	10	86%	27%	2	0	31-12-2023
5	Athmallik (NAC)	2.16	2	2.16	2	5	10	43%	20%	0	0	
6	Attapura 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	Baripada (M)	22.74	16.65	22.74	16.65	26	60	87%	28%	0	0	
17	Barpali (NAC)	4.3	3.29	4.3	3.29	6	20	72%	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)	73	65.79	73	65.79	81	70	90%	94%	0	0	
22	Bhadrak (M)	18.36	18	8	18	8	20	100%	90%	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	31-12-2023
25	Bhuban (NAC)	3.99	3.76	3.99	3.76	6	20	67%	19%	0	0	
26	Bhubaneswar (MC)	194.52	190.07	180	190.07	180	210	100%	91%	30	30	31-12-2023
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	Brajarajnagar (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	Byasanagar (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)	3.85	3.65	3.85	3.65	15	30	26%	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	31-12-2023
40	Daspalla NAC	3.28	2.92	3.28	2.92	5	10	66%	29%	0	0	
41	Deogarh (M)	3.82	4.02	3.82	4.02	5	10	76%	40%	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)	1.31	1.31	1.31	1.31	2	10	66%	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	4.06	4.19	4.06	10	20	42%	20%	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	Jaleswar (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	31-12-2023
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	

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 Waste	Dry Waste	Wet Waste	Dry Waste	Wet Waste	Dry Waste	Wet Waste	Dry Waste	Wet Waste	Dry Waste	
63	Kantabanji (NAC)	3.74	3.67	3.74	3.67	5	10	75%	37%	0	0	
64	Karanjia (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	31-12-2023
66	Kendrapara (M)	7.98	7.68	7.98	7.68	8	20	100%	38%	0	0	
67	Keonjharagarh (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)	2.55	2.16	2.55	2.16	5	10	51%	22%	0	0	
70	Khandapada (NAC)	1.64	1.53	1.64	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	31-12-2023
74	Kodala (NAC)	2.46	2.22	2.46	2.22	5	10	49%	22%	0	0	
75	Konark (NAC)	2.94	3	2.94	3	3	20	98%	15%	2	10	31-12-2023
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)	2.64	2.54	2.64	2.54	3	10	88%	25%	0	0	
79	Malkangiri (M)	5.43	4.84	5.43	4.84	8	10	68%	48%	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)	3.15	2.83	3.15	2.83	4	10	79%	28%	0	0	
83	Nimapara (NAC)	3.34	3.17	2	3.17	2	10	100%	32%	3	0	31-12-2023
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)	7.66	7.19	7.66	7.19	11	20	70%	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	Pipili (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)	35.78	32.2	35.78	32.2	50	60	72%	54%	5	0	31-12-2023
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	31-12-2023
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	Redhakhoh (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	90	100%	69%	10	0	31-12-2023
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	31-12-2023
109	Surada (NAC)	2.9	2.43	2.9	2.43	5	10	58%	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:		1,154	1,102	991	1,026	1,198.5	2,240	83%	46%	97.5	50	



Orissa Water Supply & Sewerage Board

(A Govt. of Odisha Undertaking)

Satyanagar, Bhubaneswar-751007 Phone: (0674)2571185

Email: eicowssb@gmail.com

No. 3387 /dt. 05.10.23
W-02/2021

To

The Additional Secretary to Govt.,
H & UD Deptt. (Sanitation Section)

Sub.: Furnishing progress report for the month of September 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.: 1. This office letter No. 1918 dtd. 23.05.2023
2. Memo No. 12516 /FE&CC. dtd. 13.06.2023
3. Letter No. 16246 dt.13.09.2021 of FE & CCDeptt.

Sir,

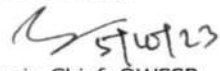
With reference to the subject cited above, the progress report in connection with compliances to various orders & directions passed by the Hon'ble NGT in OA No.673/2018, OA No.606/2018 & OA No. 593/2017 for the month of September 2023 in connection with works related to OWSSB is furnished herewith for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

The updated information related to sewerage management in the State will be provided by WATCO and PHEO as the construction and operation & maintenance of sewerage works of Bhubaneswar, Cuttack, Rourkela, Sambalpur, Puri & JICA assisted Odisha Integrated Sanitation Improvement Project (OISIP) in Cuttack City and Bhubaneswar Sewerage Dist-VI are under the jurisdiction of WATCO. The O&M work of Wastewater Treatment Plant at Talcher town is under the jurisdiction of PHEO.

This is for your information and necessary action.

Encl.: As above.

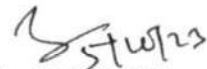
Yours faithfully,


Engineer-in-Chief, OWSSB

Memo No. 3388 /dt. _____

Copy with copy of enclosures submitted to the Director, Environment-cum-Special Secretary to Govt., Forest, Environment & Climate Change Department, Odisha, Bhubaneswar, Email: env1992@gmail.com / Member Secretary, State Pollution Control Board, Bhubaneswar for information and necessary action.

Encl.: As above.


Engineer-in-Chief, OWSSB

OA Nos.593,606 & 673 forwarding letter

[PTO]

Memo No. 3389 /dt. _____

Copy with copy of enclosures forwarded to the CEO, WATCO, Bhubaneswar for information and necessary action. It is requested to submit the required information related to Sewerage Systems on NGT matters to the Director, Environment-cum-Special Secretary to Govt., Forest, Environment & Climate Change Department Odisha (Email: env1992@gmail.com) and H & UD Deptt., Odisha, Bhubaneswar for compliance.

Encl.: As above.

Engineer-in-Chief,OWSSB

Memo No. 3390 /dt. _____

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. 3391 /dt. _____

Copy with copy of enclosures forwarded to the Engineer-in-Chief (PH), Odisha, Bhubaneswar for information and necessary action. It is requested to furnish the required information relating to Wastewater Treatment Plants at Talcher to the Director, Environment-cum-Special Secretary to Govt., Forest, Environment & Climate Change Department (Email: env1992@gmail.com) and H & UD Deptt., Odisha, Bhubaneswar for compliance.

Encl.: As above.

Engineer-in-Chief,OWSSB

National Mission for Clean Ganga
Monthly Progress Report for the month of September 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 6. Talcher(M) (5.29 MLD)].

III. Details of Septage Treatment Plant

- **Existing No. of STPs and Treatment Capacity (in MLD) : 13STPs : 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 : Information not available with OWSSB**
- **Sewage being treated through alternative technology: [Faecal Sludge Treatment Plant]**
- **Existing number of FSTPs and Treatment Capacity : 113 FSTPs : 1947 KLD (1.947 MLD)**
- **FSTPs under construction : 7 FSTPs : 140 KLD (0.14 MLD)**
- **Total number of FSTPs and Treatment Capacity : 120 STPs : 2087.00 KLD (2.087 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 120 FSTPs : 377.59 MLD
 - iv) Balance wastewater to be treated [(i)-(iii)] : 502.41 MLD
Through Grey Water Management System

- Time frame for completion of balance 7 nos. SeTPs out of total 120 nos. –
 - November 2023: 1. Dharamgarh (10 KLD), 2. Koraput (20 KLD), 3. Burla (20 KLD), 4. Hirakud (20 KLD), 5. Jajpur (20 KLD), 6. Remuna (20 KLD), 7. Dhenkanal –II (30 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.

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

Grey Water Management in Odisha

In all the 115 ULBs, FSTPs have been provided for treatment of faecal sludge from onsite sanitation systems. 113 FSTPs out of 120 have been commissioned and 7 are in progress.

For greywater management in the ULBs, on the basis of learning from the pilot conducted in 4 geographical areas of two cities- Jatni (M) and Dhenkanal (M), and recommendation of the Expert Committee formed as per the direction of the Hon'ble NGT, Scale-up strategy and Toolkit has been developed for the city wide scale up of Grey water management in the State.

Interventions are to be provided at four different levels as mentioned below:

1. Household level - Magic Soak pits can be provided at household level
2. Lane level – Hybrid leach pits with absorption trenches can be provided in lanes
3. Community level–Constructed Wetland can be provided at community level wherever space is available
4. Outfall level - For the left-over water which is received at outfall points of the drains due to non-availability of space at household, lane and community level following technologies can be adopted depending on the situation- Waste stabilization pond and maturation pond, Constructed Wetland or Facultative aerated lagoons. CPHEEO manual can also be referred for adopting other nature based technologies at the outfall point.

Management of grey water at household and lane level is absorption based structures. The treated water from community level treatment and at outfall level treatment will conform to the general discharge norms of CPCB/MoEF&CC.

For Gray Water Management, following steps have been taken;

- a. Approval has been obtained for implementation of Grey Water Management (GWM) in 110 ULBs excluding 5 ULBs having sewerage system.

- b. After successful implementation of grey water management pilot project at Dhenkanal and Jatni, the work has been taken up in 11 lighthouse ULBs namely, Angul, Balasore, Bargarh, Chatrapur, Dhenkanal, Hinjilcut, Jatni, Jajpur, Keonjhar, Koraput, Nayagarh.
- c. Tender has been invited for state level PMU for Grey water management which will be finalized shortly.
- d. Each ULB will have a Project Implementation Unit (PIU) for implementation of GWM. The ULB level PIU consists of GWE, M&E Expert, GIS Expert & TULIP Engineers.
- e. The TULIP Engineers and GIS Expert have been engaged for these 11 lighthouse ULBs.
- f. A 2-day state level workshop was organized by H & UD Department for Chairpersons, Vice-Chairpersons, EO, ME, JE, MIS, TULIPs & other technical staffs for implementation of GWM in 11 lighthouse ULBs.
- g. Further, the ULBs have conducted a training/ orientation session at their respective ULB level for the elected representatives, Swacha Sathis & MSGs.
- h. The household survey has been initiated jointly by TULIP Engineers and Swach Sathis in their respective wards allotted.
- i. The GIS Experts have been oriented and trained for digital mapping of all the household, lanes and drains in the ULB.

The timeline for implementation of GWM in 11 ULBs in 2023-24. The timeline for rest 99 ULBs is scheduled by 2023-24 to 2024-25.

GREYWATER MANAGEMENT SURVEY WORK PROGRESS TRACKER- SUMMARY (Till 30-09-2023)

	Angul	Balasore	Bargarh	Chatrapur	Dhenkanal	Hinjilcut	Jajpur	Jatni	Keonjhar	Koraput	Nayagarh
Total No. of Households in Ward	13373	20128	16615	4453	17290	7659	9173	11598	17937	11422	5228
Households surveyed	6815	13451	5704	4199	11787	6021	6882	9428	12927	6279	2292
Percentage of household survey completed	50.96 %	66.83 %	34.33 %	94.30 %	68.17 %	78.61 %	75.02 %	81.29 %	72.07 %	54.97 %	43.84 %
Polluters Identified	176	2585	2726	757	438	1054	3742	1752	2190	596	90
No. of Interventions identified at HH level	367	650	537	213	911	287	3739	986	280	390	163
Total No. of lanes	447	1209	1008	520	1460	451	627	981	1339	1011	260
No. of lanes surveyed	220	603	469	520	766	177	484	518		181	171
No. of Interventions identified at lane level	15	13		9		4		11		1	
No. of Interventions identified at Community level				22		2		7			
No. of Interventions identified at outfall level		1	4				7				

Mission for Clean Ganga of OA No. 675 Sept-23 new

Details of each existing STP in the State

To be provided by WATCO

Details of partly commissioned/ under construction STPs in the State

To be provided by WATCO

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 115ULBs of Odisha will be covered, out of which 113 nos. SeTP constructed and operational in 110 ULBs and 7 nos. are under Construction which will cover rest 5nos. ULBs.				

IV Details of Industrial Pollution: Not relate 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				

V. Solid Waste Management: Not relate to OWSSB

- Total number of Urban Local Bodies and their Population : N/A
- Current Municipal Solid Waste Generation : N/A
- 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), biomethanation, MRF etc. : N/A



WATCO

No. 6059 Dt. 07/10/2023

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 September'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.

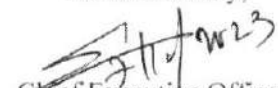
Ref:- Letter No.16246/HUD dt.13.9.2021 of F & E Department.

Sir,

With reference to the above cited subject, 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 September'2023 are furnished herewith for information & necessary action.

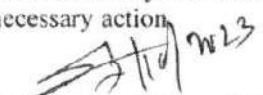
Encl: As above.

Yours faithfully,


Chief Executive Officer
WATCO, Bhubaneswar.

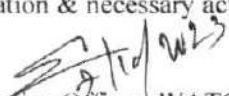
Memo No. 6060 / Dated. 07/10/2023

Copy along with copy of enclosures submitted to the Special Secretary to Govt., H&UD Department, Odisha (Sanitation Section) / Member Secretary, State Pollution Control Board, Bhubaneswar for kind information & necessary action.


Chief Executive Officer, WATCO

Memo No. 6061 Dt. 07/10/2023

Copy along with copy of enclosures submitted to the Engineer-in-Chief, OWSSB, Unnati Bhawan, Bhubaneswar for kind information & necessary action.


Chief Executive Officer, WATCO.

CIN No: U41000OR2015NPL019598
Registered Office: WATCO, Ground Floor of UNNATI Bhawan
Satya Nagar, Bhubaneswar-751007
Telefax: +91-674-2391444, email: ceowatcoodisha@gmail.com, www.watcoodisha.in

National Mission for Clean Ganga
Monthly Progress Report for the month of September, 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 : 158.14 MLD
- Sewage being treated through alternative technology: [Faecal Sludge Treatment Plant]
- Existing number of FSTPs and Treatment Capacity : To be provided by OWSSB.
- 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	14.0	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	22.76	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)
	1	CDA	36	26.75	O&M by OISIP, JICA, Cuttack	Running smoothly
	1	Matagajpur (ASP)	16	5.67	-do-	-do-
3		Puri				
	1	Mangalaghat	15	15	O&M by WATCO	Running smoothly
	1	Bankimuhan,	10	5.05		
4	1	Talcher, Mandapal	2	2	O&M by PHEO	-do-
5	1	Rourkela	40	7.41	Partly commissioned since Feb-2021 (O&M by WATCO from June-2022)	-do-
6	1	Sambalpur	40	25	OWSSB	Interception & diversion (I&D) of

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

						Dhobijore Nallah
Total	13		375.50	158.14		

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	43.22% (15561 out of 36000 Nos.)	Network : December 2023, House sewer connection : June, 2024.
		Meherpalli	56	Commissioned 01.08.2021	47.50% (35747 out of 75269)	Network:- December-2023, House Sewer Connections (HSC): June.- 2024.
		Basuaghai	28		65% (24462 out of 37634)	-do-
		Kochilaput	43.5		43.07% (25187 out of 58468)	-do-
		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 : October 2023, House Sewer Connection – May -2024.
	1	CDA	36	Commissioned since 27.11.2019	44.96 % (22130 out of target of 49222 nos.)	
3	1	Sambalpur	40	STP is commissioned during Dec.2022 and treating around 25 MLD of wastewater from Dhobijore Nallah	0.3% (105 out of target of 30635 Nos)	Network (part): March, 2023, House Sewer Connection (Part) – Dec.-2023
4	1	Rourkela	40	Commissioned since Feb. 2021	12.69% (1523 out of target of 12000 nos.)	Sewer network completion Dec.-2023 & House Sewer Connection : Mar.-2024

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 WATCO

- 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 WATCO				

V. Solid Waste Management: Not relates to WATCO

- Total number of Urban Local Bodies and their Population : N/A
- Current Municipal Solid Waste Generation : N/A
- 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), biometanation, MRF etc. : N/A
- Action plan to bridge gap between Installed Capacity and Current Utilization of processing facilities (if Gap > 20%). : N/A
- No. and capacity of C&D waste processing plants in TPD (existing, proposed and under construction) : N/A
- Total no. of wards, no. of wards having door to door collection service, no. of wards practicing segregation at source : N/A
- Details of MSW treatment facilities proposed and under construction (no., capacity, and technology) : N/A
- No. and area (in acres) of uncontrolled garbage dumpsites and Sanitary Landfills. :N/A
- No. and area (in acres) of legacy waste within 1km buffer of both side of the rivers :N/A

"By E-Mail/ Courier"
"rg.ngt@nic.in/ judicial-ngt@gov.in"

GOVERNMENT OF ODISHA
 FOREST, ENVIRONMENT & CLIMATE CHANGE DEPARTMENT

No. FE-ENV1-ENV-0005-2020/ 15726 /FE&CC, Dt. 26.07.2023

From:

Dr. K. Murugesan, IFS
 Director Environment –cum- Special Secretary to Govt.

To

The Ld. Registrar General
 Hon'ble National Green Tribunal, Principal Bench
 Faridkot House, Copernicus Marg, New Delhi- 110 001

Sub: Submission of minutes of Environment Monitoring Cell (EMC) to monitor compliance of various directions passed by Hon'ble NGT in O.A. No. 606/2018 on "Compliance to Solid Waste Management Rules, 2016" and Sewage Management in the State including other matters- regarding.

Sir,

In inviting a reference to the subject cited above, this is to intimate that as per directions in the order dated 27.01.2023 of Hon'ble NGT in OA No.606/2018, review meeting of Environment Monitoring Cell (EMC) was held on 24.07.2023 in order to monitor up to date progress on compliance to Solid Waste Management Rules, 2016 and Sewage Management in the State including other environmental norms.

Therefore, I am directed to enclose herewith the copy of the minutes approved by Chief Secretary, Odisha for kind information and appraisal of the Hon'ble Tribunal.

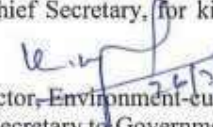
Yours faithfully,

Encl: As above.


 Director, Environment-cum-
 Special Secretary to Government

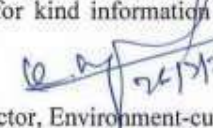
Memo No. 15727 / FE & CC, Dt 26.07.23

Copy forwarded to the OSD cum ex-Officio Special Secretary to Chief Secretary, for kind information Chief Secretary.


 Director, Environment-cum-
 Special Secretary to Government

Memo No. 15728 / FE & CC, Dt 26.07.23

Copy forwarded to the Senior PS to the Additional Chief Secretary, FE&CC Department / P.S. to Principal Secretary, H & UD Dept./ P.S. to Principal Secretary, PR & DW Department/ P.S. to Commissioner cum Secretary, Health & Family Welfare Department for kind information of ACS, Principal Secretary and Commissioner cum Secretary respectively.


 Director, Environment-cum-
 Special Secretary to Government

Memo No. 15729 / FE & CC, Dt 26.07.23

Copy with copy of enclosure forwarded to the Member Secretary, Central Pollution Control Board, Paribesh Bhawan, East Arjun Nagar, Shahdra, Delhi- 110 032 for kind information and necessary action.

Encl: As above.


Director, Environment-cum-
Special Secretary to Government

Memo No. 15730 / FE & CC, Dt 26.07.23

Copy forwarded to the Member Secretary, State Pollution Control Board, Paribesh Bhawan, Nilakantha Nagar, Unit- VIII, Bhubaneswar/ Member Secretary, OWSSB, Satya Nagar, Bhubaneswar for information and necessary action.


Director, Environment-cum-
Special Secretary to Government

Minutes of 9th Meeting of Environment Monitoring Cell (EMC) to review the progress under the Chairmanship of Chief Secretary, Odisha in the 2nd floor Conference Hall held on 24.07.2023 at 05.30PM

The 9th meeting of Environment Monitoring Cell (EMC) was held under the Chairmanship of Chief Secretary, Odisha in the 2nd Floor Conference Hall of Lok Seva Bhawan on 24.07.2023 at 05.30PM to review the matter of compliance on Solid Waste and Sewage Management in pursuance of order dt.27.01.2023 of Hon'ble NGT, Principal Bench, New Delhi in OA No. 606/2018 and related matters.

The list of participants is placed at **Annexure-I**.

Initiating the discussion, the Director, Environment-cum-Special Secretary, Forest, Environment & Climate Change Department gave a brief background of the meeting with a detailed presentation on the compliances required to the Paras in pursuance of order dt.27.01.2023 of Hon'ble NGT and progress made by the concerned Departments, Organizations with respect to 6 Monthly Progress Reports with verifiable Progress. Thereafter the Principal Secretary, Housing & Urban Development Department made the presentation on Wastewater Management and Status of Bio-Mining of Legacy Waste in the State.

After a threadbare and thorough discussion on issues relating to compliance in the Paras of order dt.27.01.2023 in OA No. 606/2018 of Hon'ble NGT, Principal Bench, New Delhi, the action to be taken as well as progress/status has been achieved so far by concerned departments/organisations are noted as follows:

	Compliances Required to the Paras as per the Direction on 27.01.2023	Progress made so far
1	It was intimated 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.	Fully compliance of SWM Rules, 2016, effective sewage management and other environmental norms need to be followed by the State as per directions of Hon'ble NGT from time to time. Chief Secretary desired to work in proper coordination with all concerned Departments/ organizations at both urban and rural areas.



PE-ENV1-ENV-2025-2020431223

2	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. Declaration of three Model towns/cities and 90 villages. Para 13	Environment Monitoring Cell (EMC) has been constituted under the Chairmanship of Chief Secretary and so far 8 nos. of review meetings have been conducted to monitor compliance of various directions passed by Hon'ble Tribunal and review the progress at state level. The last review meeting was held on 01.03.2023. Three model cities i.e. Bhubaneswar, Berhampur & Rourkela and 3 Model towns i.e. Dhenkanal, Jajpur & Chhatrapur are already declared. In all the 30 districts it is to be taken up. Action: H&UD Dept., PR&DW Dept.																				
3	Status on MCC, MRF, Legacy waste, Landfill site, Bio-mining activities, Sewage Management being monitored by CMC, Ministry Jal Shakti, Govt. of India Para 20 & 21	SPCB is submitting the MPR in the matter of OA No. 673 of 2018 on monthly basis to NMCG with copy to CPCB. The MPR up to May, 2023 has already been submitted. Action: OWSSB; SPCB, Odisha																				
4	Status of State on SWM (2257 TPD) & 37.46 Lakh MT and current gap of 514 (642 – 128) MLD of sewage management. Para 25	The details are: MCC-254 Nos with treatment capacity 1193.5 TPD (Wet Waste) with waste generation quantity 1157 TPD, MRF- 216 Nos with treatment capacity of 2220 TPD (dry waste) with generation capacity of 1104 TPD. Sewerage system has been constructed in 5 ULBs (i.e., Bhubaneswar, Cuttack, Sambalpur, Rourkela and Puri) and one Wastewater treatment plant has constructed in Talcher Town. The sewage generation in the above 6 ULBs is about 302.01. The installed capacity of STPs in the said ULBs is 375.5 MLD. In 110 ULBs Grey Water Management project is being taken up. Action: H&UD Department, OWSSB																				
5	As per commitment of the State Rs. 1152 Crore (1138) 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. Para 26	Provision of funds to meet the gap between generation of waste and treatment has been strategized up to FY 2023-24 as below: <table><tr><th>Sl. No.</th><th>Particulars</th><th>Available /released Amount</th><th>Fund to be received</th><th>Total</th></tr><tr><th colspan="5">Rs. In Crore</th></tr><tr><td>1</td><td>5th SFC (Septage Management)</td><td>33.33</td><td>8.34</td><td>41.67</td></tr><tr><td>2</td><td>Urban-Rural Convergence for FSSM</td><td>69.62</td><td></td><td>69.62</td></tr></table>	Sl. No.	Particulars	Available /released Amount	Fund to be received	Total	Rs. In Crore					1	5th SFC (Septage Management)	33.33	8.34	41.67	2	Urban-Rural Convergence for FSSM	69.62		69.62
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6	State may evolve mechanism for raising the funds by collecting user charges from households, contribution of corporate/ business sectors, commercial establishments, and tourists contributing for solid waste generation. Para 27	All ULBs are collecting user fee for Solid Waste Management as per Solid Waste Management Bye-laws notified by them. User fee is being collected through Ama Sahar Mobile App (Online) and also manually (Offline). Action: H&UD Department															
7	1.Scientific handling of waste (processing and disposal) as per SWM Rules, 2016 2.Waste Processing facilities	1. Decentralized SWM adopted in accordance with provisions laid down in the SWM Rules, 2016, SOPs in July, 2019, December, 2020 and December 2022 prescribed for Collection, Transportation, Processing & Disposal of Municipal Solid Waste. 2. Waste to Wealth initiative <table><tr><th>SWM Facilities</th><th>Number</th><th>Capacity (in TPD)</th><th>Waste Generated (TPD)</th><th>% Capacity Availability</th></tr><tr><td>MCC</td><td>254</td><td>1193.5</td><td>1,157 (Wet Waste)</td><td>103</td></tr><tr><td>MRF</td><td>216</td><td>2,220</td><td>1104 (Dry Waste)</td><td>201</td></tr></table> Recyclable dry wastes sold to Agencies authorised by SPCB, Odisha and Non-recyclable sent to Cement plants for co-processing. 3. Based on assessment of waste generation in individual ULBs, the MCCs and MRFs of adequate capacity have been set up; Housing& Urban Development Department is regularly	SWM Facilities	Number	Capacity (in TPD)	Waste Generated (TPD)	% Capacity Availability	MCC	254	1193.5	1,157 (Wet Waste)	103	MRF	216	2,220	1104 (Dry Waste)	201
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	3.Establishment of decentralized waste processing facilities of adequate capacity																

	4. Segregation of the municipal solid waste at source 5. Processing of waste nearest to the point of generation with defined destination 6. Enlisting involvement of people Para 28	monitoring the progress made in this regard. 4. 99% segregation of waste at source is being ensured in all ULBs. 5. Suitable lands identified within the locality for establishment of MCCs and MRFs 6 - In a paradigm shift the State has followed a community driven instead of contractor driven model associating community in the process. Swachha Supervisor and SwachhaSathis have been associated with sanitation value chain strengthening collection of segregated waste from door step and to bring about behavioural change in public. Swachh Karmis, the women members of WSHG, Transgender and Waste Pickers are associated with the processing in the Wealth Centres. IEC activities such as putting up Wall-paintings, Audio jingles etc. are being undertaken frequently to sensitize people on safe sanitation practices including scientific SWM. Action: H&UD Department
8	End-users of the compost and the rejects are not given. (Para 29)	Solid Waste - Wet Waste, being processed at MCCs to generate compost (namely "Mo Khata"), is being used by line Departments for agriculture / horticulture / plantation purposes. - People are also the user of "Mo Khata" made available to them through outlets managed by WSHGs. Recyclable Dry Waste, being segregated at MRFs, sold to Agencies authorized by SPCB, Odisha. Non-Recyclable Dry Wastes are transferred to Cement

		factories for co-processing.																																																											
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9.	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. Use of reclaimed land occupied by legacy waste dump sites, Use of CAMPA funds. Prevention of fire at dump site. Para 31 & 32	The follow up action is being taken up for bio-remediation of legacy waste dumpsites. Status of legacy waste dumpsites management is as follows: 1. Vyasanagar Municipality has successfully completed bio-remediation of legacy waste dumpsite of 55,000 MT in the ULB. Reclaimed land has been transformed into a park in public interest. 2. Selection of agencies for Bio-mining of legacy waste dumpsites in Balasore and Bhadrak (Package-I) and Puri (Package-II) as well as for 87 ULBs of the State is under process. 3. It is being ensured at the ULB level to prevent any burning of waste at dumpsites. Action: H&UD Department																																																											
10	Execution Plan relating to management of municipal solid waste, Execution of Bio-remediation/ Bio mining process as per CPCB guideline.	Standard Operating Procedure (SOP) on Decentralised SWM has been circulated among ULBs for strict observance. i. Bio-mining of legacy waste dumpsite in Vyasanagar Municipality has been completed. ii. Process is ongoing in BMC and RMC; iii. In addition, in 95 ULBs having legacy waste dumpsites, RFP floated for Bio-mining. <table><tr><th>S. No.</th><th>Status</th><th>No. of ULB</th><th colspan="2">Approx. Quantity of legacy waste (in MT)</th><th>Status in %</th></tr><tr><td>1</td><td>Completed</td><td>1</td><td colspan="2">55,000</td><td>1</td></tr><tr><td rowspan="3">2</td><td rowspan="3">On-going</td><td rowspan="3">2</td><td>RMC:</td><td>Completed</td><td>1,41,156</td><td>4</td></tr><tr><td></td><td>Ongoing</td><td>2,500</td><td rowspan="2">42</td></tr><tr><td>BMC:</td><td>Ongoing</td><td>16,00,000</td></tr><tr><td rowspan="4">3</td><td colspan="5">RFP floated</td></tr><tr><td>Municipal Corporation</td><td>3</td><td colspan="2">10,00,000</td><td>26</td></tr><tr><td>Municipalities</td><td>41</td><td colspan="2">9,27,458</td><td>24</td></tr><tr><td>NAC</td><td>49</td><td colspan="2">1,11,104</td><td>3</td></tr><tr><td>4</td><td>No Legacy Waste</td><td>19</td><td colspan="2">0</td><td>0</td></tr><tr><td colspan="2">Total:</td><td>115</td><td colspan="2">38,37,218</td><td>100</td></tr></table>	S. No.	Status	No. of ULB	Approx. Quantity of legacy waste (in MT)		Status in %	1	Completed	1	55,000		1	2	On-going	2	RMC:	Completed	1,41,156	4		Ongoing	2,500	42	BMC:	Ongoing	16,00,000	3	RFP floated					Municipal Corporation	3	10,00,000		26	Municipalities	41	9,27,458		24	NAC	49	1,11,104		3	4	No Legacy Waste	19	0		0	Total:		115	38,37,218		100
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	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. Para 33	114 ULBs have designated sites for storage of Construction & Demolition waste. 126 sites across the State have been webhosted (www.urbanodisha.gov.in). Further, the C&D waste is used for construction of road subgrade, temporary pathways, raising the low-lying areas, etc. All ULBs are collecting Domestic Hazardous Waste and e-Waste by way of special weekend drive on every Saturday. For management of Biomedical wastes, Government has sanctioned Rs 1813.54 crore to establish ETP & STP at all HCF (Health Care Facilities) of Odisha upto CHC level. Accordingly to establish ETP & STP at DHHs, Rs 211.68 crore have been released & distributed to districts. Works department has already taken up the work and will complete the establishment of ETP & STP at DHHs by end of FY 2023-24. Like that upto CHC level, all the HCFs will be covered by end of FY 2027-28. Action: H&UD Department, Health & FW Department, SPCB, Odisha
11	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. Contamination of soil on account of Grey water needs to be managed as per "Tool Kit: Grey water Management" A committee is to be constituted and to submit a report. The committee is to examine alternative	Total estimated waste water generated in the ULBs of the State is 880 MLD. Against the target of 13 STPs and 120 SeTPs with a total capacity of 377.59 MLD, 12 STPs (Capacity of 342.50 MLD) and 112 SeTPs (Capacity of 1.937 MLD) have been made operational. The gap is proposed to be filled up through Grey water management system, pilot of which has been taken up in Dhenkanal and Jatni Municipalities and steps are being taken for scaling up of Grey Water Management in 11 identified Lighthouse ULBs in 1st phase. All ULBs have been requested to sprinkle the treated wastewater from STPs on the roads for dust mitigation, landscaping in the STP and SeTP etc. Grey Water management has been undertaken in 4 geographical areas of two towns, namely Dhenkanal and Jatni Municipalities on pilot basis. Soil samples will be taken out of area adjacent to (within 10 metres) lane level

	options for utilizing the grey water for agriculture 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. Para 34	structures to check for any adverse impact in terms of contamination of soil. In compliance to the order, SPCB has constituted the Expert Committee vide their Order No. 2993 dt.28.02.2023 (Annexure A) under the Chairmanship of Member Secretary, SPCB. The Committee shall furnish its views on environmental impact on discharge of grey water into leach pits in the state of Odisha and ascertain that whether grey water management is done as per "Tool Kit Grey-water Management" (July 2021) brought out by Department of Drinking Water and Sanitation, Ministry of Jal Shakti, GoI. Accordingly, the meeting of the Committee was held on 16.03.2023. Based on the discussions and subsequent field visits, the compliance report along with recommendations was furnished vide letter No 5813 dt. 10.04.2023 (Annexure B), which was also submitted to Hon'ble NGT vide this department letter No. 9708 dt.11.05.2023(Annexure C). Action: H&UD Department, PR & DW Department, SPCB, Odisha, OWSSB																																			
12	Provision of funds to bridge the gap Para 37	Provision of funds to meet the gap between generation of waste and treatment has been strategized up to FY 2023-24 as below: <table><tr><th>Sl. No.</th><th>Particulars</th><th>Availabl e /releas ed Amount</th><th>Fund to be received</th><th>Total</th></tr><tr><th colspan="5">Rs. In Crore</th></tr><tr><td>1</td><td>5th SFC (Septage Management)</td><td>33.33</td><td>8.34</td><td>41.67</td></tr><tr><td>2</td><td>Urban-Rural Convergence for FSSM</td><td>69.62</td><td></td><td>69.62</td></tr><tr><td>3</td><td>Urban Septage System</td><td>70.00</td><td></td><td>70.00</td></tr><tr><td>4</td><td>Used Water Management SBM (Urban)</td><td></td><td>986.00</td><td>986.00</td></tr><tr><td colspan="2">Total:</td><td>172.95</td><td>994.34</td><td>1167.29</td></tr></table> Action: H&UD Department, PR&DW Department	Sl. No.	Particulars	Availabl e /releas ed Amount	Fund to be received	Total	Rs. In Crore					1	5th SFC (Septage Management)	33.33	8.34	41.67	2	Urban-Rural Convergence for FSSM	69.62		69.62	3	Urban Septage System	70.00		70.00	4	Used Water Management SBM (Urban)		986.00	986.00	Total:		172.95	994.34	1167.29
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13	Adoption of cost effective method of sewage treatment, reduction on	SPC Board is stipulating ZLD Condition in CTE and CTO order																																			

	use of water imposing ZLD on industries, Housing societies with imposing CTE/ CTO conditions Para 38	In housing societies above 20,000 Square Meter with monitoring thereof. Action: SPCB, Odisha
14	MoEF&CC notification of 25/02/2022 on Management of sewage, waste water, reuse and recycle of treated waste water by dual plumbing system. Common off-site treatment facility (Without Sewage Network) Common off-site treatment facility (With Sewage Network) 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. For projects above 20,000 square meter on site STP to treat 100 % sewage generated. Maintaining source of clean water (rivers, storm water drains and water bodies-Lakes, wetlands etc.) free from treated and untreated sewage, channelizing treated sewage for non-portable	In five ULBs having sewer network & STP, such as Bhubaneswar, Cuttack, Puri, Sambalpur and Rourkela, all the wastewater generated from households shall be connected to sewer network which will be treated at STP. In all the 115 ULBs, FSTPs have been provided for treatment of faecal sludge from onsite sanitation systems. 112 FSTPs out of 120 have been commissioned and 8 are in progress. For grey water management in the ULBs, on the basis of learning from the pilot conducted in 4 geographical areas of two cities- Jatni(M) and Dhenkanal(M), and recommendation of the Expert Committee formed as per the direction of the Hon'ble NGT, Scale-up strategy and Toolkit has been developed for the city wide scale up of Grey water management in the State. Interventions are to be provided at four different levels as mentioned below: 1. Household level - Magic Soak pits can be provided at household level 2. Lane level - Hybrid leach pits with absorption trenches can be provided in lanes 3. Community level-Constructed Wetland can be provided at community level wherever space is available 4. Outfall level - For the left-over water which is received at outfall points of the drains due to non-availability of space at household, lane and community level following technologies can be adopted depending on the situation- Waste stabilization pond and maturation pond, Constructed Wetland or Facultative aerated lagoons. CPHEEO manual can also be referred for adopting other nature based technologies at the outfall point. Management of grey water at household and lane level is absorption based structures. The treated water from community level treatment and at outfall level treatment

purposes. Para 39	will conform to the general discharge norms of CPCB/MoEF&CC. For Gray Water Management, following steps have been taken; - Approval has been obtained for implementation of Grey Water Management (GWM) in 110 ULBs excluding 5 ULBs having sewerage system. - After successful implementation of grey water management pilot project at Dhenkanal and Jatni, the work has been taken up in 11 lighthouse ULBs namely, Angul, Balasore, Bargarh, Chatrapur, Dhenkanal, Hinjilicut, Jatni, Jajpur, Keonjhar, Koraput, Nayagarh. - State level PMU for Grey water management will be set up shortly. - Each ULB will have a Project Implementation Unit (PIU) for implementation of GWM. The ULB level PIU consists of GWE, M&E Expert, GIS Expert & TULIP Engineers. - The TULIP Engineers and GIS Expert have been engaged for these 11 lighthouse ULBs. - A 2-day state level workshop was organized by H & UD department for Chairpersons, Vice-Chairpersons, EO, ME, JE, MIS, TULIPs & other technical staffs for implementation of GWM in 11 lighthouse ULBs. - Further, the ULBs have conducted a training/ orientation session at their respective ULB level for the elected representatives, Swacha Sathis & MSGs. - The household survey has been initiated jointly by TULIP Engineers and Swach Sathis in their respective wards allotted. - The GIS Experts have been oriented and trained for digital mapping of all the household, lanes and drains in the ULB. - The work in 11 lighthouse ULBs is expected to be completed by March 2024. Based on BOD values of the polluted river stretches during
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		the period 2019 and 2021 (2020 has not been considered because of COVID Pandemic), CPCB has delisted 12 polluted river stretches (BOD < 3.0 mg/L) from the list of earlier identified 19 polluted river stretches (during the year 2017). The remaining seven polluted river stretches identified during 2022 and their present water quality status is as follows. <u>Status of Polluted river stretches identified during 2022</u> <table><tr><th colspan="4">Priority category during 2022 (CPCB Publication "Polluted river stretches for restoration of Water Quality-2022")</th><th rowspan="2">Action plan under implementation/ proposed*</th></tr><tr><th>River</th><th>Name of Polluted River Stretch</th><th>Priority</th><th>Numbers</th></tr><tr><td>Ganguanallah</td><td>Ganguanallah along Bhubaneswar</td><td>I</td><td>1</td><td rowspan="7">Action plan has approved by CPCB under Implementation May be downloaded the www.rrcodisha.org/actionplan/</td></tr><tr><td>Daya</td><td>Daya along Narankheta to Kanas</td><td>IV</td><td>3</td></tr><tr><td>Kuakhai</td><td>Kuakhai along Bhubaneswar</td><td>IV</td><td></td></tr><tr><td>Mangala</td><td>Mangala along Golasahi</td><td>IV</td><td></td></tr><tr><td>Kathajodi</td><td>Kathajodi along Cuttack</td><td>V</td><td>3</td></tr><tr><td>Serua</td><td>Serua along Sankhatrasa</td><td>V</td><td></td></tr><tr><td>Brahmani</td><td>Brahmani along Rourkela</td><td>V</td><td></td></tr></table> Action: H&UD Department, PR & DW Department, SPCB, Odisha	Priority category during 2022 (CPCB Publication "Polluted river stretches for restoration of Water Quality-2022")				Action plan under implementation/ proposed*	River	Name of Polluted River Stretch	Priority	Numbers	Ganguanallah	Ganguanallah along Bhubaneswar	I	1	Action plan has approved by CPCB under Implementation May be downloaded the www.rrcodisha.org/actionplan/	Daya	Daya along Narankheta to Kanas	IV	3	Kuakhai	Kuakhai along Bhubaneswar	IV		Mangala	Mangala along Golasahi	IV		Kathajodi	Kathajodi along Cuttack	V	3	Serua	Serua along Sankhatrasa	V		Brahmani	Brahmani along Rourkela	V	
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15	Utilization of treated sewage in Malls, Industrial Estates, Automobile establishments, Power Plants, Play grounds, railway Stations, Bus Stands, Local	All ULBs have been requested to use treated sewage water from STPs for sprinkling on the roads to mitigate dust pollution.	Action: H&UD Department																																					

	Bodies, Universities etc. to save portable water for drinking purpose. State to make plan for use of treated water. Para 41	
16	Effective management of STP and FSTP. Guidelines of SBM - U 2.0 are to be referred. The STPs are to be operated in full utilization capacity. A centralized mechanism for operation on continuous basis to be made preferably within one month. Para 43 & 44	Steps are being taken to upgrade operation of STPs with full utilization capacity. SPCB, Odisha is granting consent to FSTPs and monitoring periodically. Action: H&UD Department, SPCB, Odisha, OWSSB
17	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. Comprehensive plan to be made for control of (Solid & liquid) pollution with allocation of adequate budget provision. Generation of awareness with public participation and contribution. Para 45 & 46	Liquid Waste Management (LWM)- - LWM in Rural Odisha is being implemented in line with the Swachh Bharat Mission Phase II program. 1,90,809 community leach pits (through SBM-G and FC Grant) and 8,79,547 household soak pits (through MGNREGA) have been constructed for the management of grey water in villages. - As on date 16,580 (35.46%) villages have reported arrangements to manage solid waste. Faecal Sludge management- All the GPs within apx. 20 km distances from ULBs have been tagged for FSM services with the ULBs. 3,552 GPs out of 6,794 GPs (52%) are linked to all urban FSTPs 56% of rural HHs will benefit from with this arrangement - As on date around 100 FSTPs are receiving faecal sludge from the rural areas - Approx. 500 trips per month of faecal sludge are being sent from rural areas to the urban FSTPs There has been a substantial reduction in pollution in the rural water bodies/rivers due to implementation of rural-urban convergence for FSM. SPCB, Odisha is granting consent to FSTPs and granting monitoring periodically. Action: PR&DW Department, SPCB, Odisha, OWSSB

18	For both Solid and Liquid waste 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. Para 48	Solid Waste Management in Rural Areas • Solid Waste Management in Rural Odisha is being implemented in line with the Swachh Bharat Mission Phase II program. Accordingly, State's implementation guidelines have been issued. • Additionally, 'The Odisha Rural Sanitation Policy 2020', with focus on SWM has been promulgated. • 65% of the GPs are targeted for SWM arrangements during current FY 2023-24. • As on date 15,635 (33.44%) villages have reported arrangements to manage solid waste, including bio-degradable and plastic waste management. • 32,863 community compost pits (through SBM-G and FC Grant) and 7,25,943 household compost pits (through MGNREGA) have been constructed for the management of bio-degradable waste in villages. • SHGs have been identified and tagged in 5,493 (81%) GPs to manage the community SWM assets and facilitate plastic waste management. • HH & Institutional level collection of plastic waste has been initiated in 2,073 GPs (31%). • 20,159 waste segregation sheds have been created to facilitate the storage of dry waste collected. • 18,959 vehicles (mostly tricycles) have been procured in the villages for collection & transportation of dry waste. • Mass cleaning of villages is being done on a regular basis to ensure visible cleanliness across all villages. • The department has converged with H&UD Department towards PWM. All GPs are tagged with MRF centres of ULBs for processing the recyclable waste which are being collected at GPs and periodically transferred to ULBs. Department has instructed all the districts to initiate door-to-door collection across all the GPs by 30 June 2023 vide letter no. 11536 dated 29.05.2023 (Annexure D). • All GPs to be made compliant to SWM Rules 2016, through SBMG Phase II program by FY 2024-25 Liquid Waste Management (LWM) in Rural Areas • LWM in Rural Odisha is being implemented in line with the Swachh Bharat Mission Phase II program. • 1,90,809 community leach pits (through SBM-G and FC Grant) and 8,79,547 household soak pits (through MGNREGA) have been constructed for the management of grey water in villages.
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		• As on date 16,580 (35.46%) villages have reported arrangements to manage solid waste. • Faecal Sludge management- All the GPs within apx. 20 km distance from ULBs have been tagged for FSM services with the ULBs. 3,552 GPs out of 6,794 GPs (52%) are linked to all urban FSTPs • 56% of rural HHs will benefit from with this arrangement • As on date around 100 FSTPs are receiving faecal sludge from the rural areas • Approx. 500 trips per month of faecal sludge are being sent from rural areas to the urban FSTPs Action: PR&DW Department, OWSSB
19.	While reviewing the progress in formulation and implementation of District Environment Plan (DEP), 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 &Ors., the Tribunal noted that in the State of Odisha District Environment Plans have been prepared for all the 30 Districts which are to be duly implemented by the District Magistrates through District Level Committees(BMW management is linked). 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,	District Environment Plans for all the 30 Districts of the State are uploaded in website of the Districts Portal and State Portal. Further, District Magistrates are executing the Action Plan of projects by referring District Environment Plans of the concerned Districts. The Additional Chief Secretary, FE & CC Department is the nodal officer for oversee the District Environment Plans and State Environment Plan. The matter of BMW management to be reviewed by Commissioner cum Secretary, Health & Family Welfare Department. Dedicated <i>web-portal "Swachha Sahara Odisha"</i> and <i>mobile app "Ama Sahara"</i> have been developed to reflect status of Solid Waste Management in ULBs and also monitoring. Dedicated Portal for monitoring of FSTPs is under trial run.

	preferably of the rank of Additional Chief Secretary. 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 two months. Para 50 & 52	Action: FE&CC Dept., Health & FW Dept. PR&DW Dept. H&UD Dept., District Collectors
20	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. Para 53 & 54	Suitable follow up action is to be taken by the departments concerned. Action: H&UD Department
21	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. 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. The mechanism should be working on fulltime basis. Continuous training	State Level PMU for SBM (Urban) and a State Level Technical Support Unit (TSU) have been constituted to look after issues of planning, capacity building and monitoring etc. of solid and liquid waste management respectively. In compliance to the direction dt. 27.01.2023 of Hon'ble NGT in O.A. No. 606/2018, the State Government has constituted a Committee under the Chairmanship of Principal Secretary to Govt., Housing and Urban Development Deptt. vide Forest, Environment & Climate Change Department Order No.7224 dated 11.04.2023 as Annexure E, which functions as a centralized single window mechanism for planning, capacity building and monitoring of waste management at state level. The committee shall prepare blue print, review the progress in bridging the gaps in sewage and solid waste management, establishing interaction with the stake holders, including experts, institutions, concerned departments, community members and all other stake holders. The minutes of the review meeting held on 19.06.2023 is enclosed as Annexure F for appraisal.

	programme for those involved in execution of waste management projects. Para 55	Action: H&UD Department, FE&CC Department
22	Compliance to SWM Rules, 2016 being monitored by CMC, Ministry of Jal Shakti. Para 59	Monthly Progress Report (MPR) in the matter of OA No. 673 of 2018 (More river stretches are polluted) are being regularly submitted to SPCB and FE&CC Deptt. For further needful action at their end. MPR for the Month of May, 2023 has been submitted to SPCB vide H&UD Department Letter No. 12452 dated 19.06.2023 as Annexure G, with a copy to FE&CC Department. MPR for the Month of May, 2023 has been submitted by SPCB to NMCG, Ministry of Jal Shakti with a copy to CPCB for necessary action vide their letter No. 9959 dated 26.6.2023 as Annexure H. Action: H&UD Department, SPCB, Odisha
23	State to raise funds from generators / contributors of waste. There is gap of 514 MLD in sewage generation and treatment and legacy waste of 37 Lakh MT. 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 Rs. 1152 crore, to be credited to a separate ring fenced account for the purpose. 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. Para 62, 64 & 65	Process for selection of agencies for Bio-mining of legacy waste dumpsites in 93 ULBs is ongoing and at different stages for successful implementation. The gap of 514 MLD in generated sewage and treatment will be managed through Grey Water Management. In this regard, after implementation of pilot projects at 4 locations of Jatni Municipality and Dhenkanal Municipality, Grey Water Management in 11 Lighthouse ULBs has been undertaken. Simultaneously, in consideration of financial implications for above projects under process, Steps are being taken for utilization of Rs. 1152 Crore through non-lapsable ring-fenced account. The above fund as committed by the State will be utilized exclusively for waste (both solid and liquid) management in timeline for successful implementation as per directions of the Hon'ble NGT. Action: PR&DW Department, H&UD Department

Further, the Chief Secretary, Odisha suggested to prepare a pocket booklet on Environment Management Plan depicting the DOs and DON'TS, which will act as a ready reckoner for the concerned Authorities at the decision making level. He further suggested to make self explanatory animated videos on Wastewater Management having 5min to 7min duration, which can be used as IEC and capacity building materials for awareness generation of general public at a large scale.

The Meeting ended with Vote of thanks to the Chair.

Approved


CHIEF SECRETARY

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 4th 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 4th 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 4th 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 4th 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 3rd 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 rd Meeting of RRC held on 04.6.2019	Compliances	Progress made so far and the Decisions taken
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.

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
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Your Signature will appear here.

	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.

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

			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 & 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. It was decided that the H & 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.
9.	The Water Resource	Water Resource Department	Member

	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.	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. It was decided that the H & 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

			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.
1st Meeting held on 08.01.2020 (Central Monitoring Committee, Govt. of India)			
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.	Chief Engineer, HH, GIS & CEM in Water Resource Department informed that recycle and reuse of water is a component of the water allocation principle to different industries. 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.	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.
2nd meeting held on 19.02.2020			
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 that the F, E and CC will notify regarding the nomination of Nodal Officer.

	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.

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.
3rd 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 th 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.	--

	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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4th 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

			Industries to strengthen the monitoring mechanism of Industrial effluents management.
5th meeting held on 31.08.2020			
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.
6th meeting held on 30.9.2020			
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 th meeting held on 09.11.2020			
a.	Model River being adopted by the	Member Secretary, SPCB	It was decided

	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 Sluicagate.	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 Sluicagate 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.
8th meeting held on 05.01.2021			
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.	--
9th meeting held on 04.03.2021			
a.	States were directed to ensure	--	--

	compliance with the Directions passed by NGT vide its latest order dated 22.02.2021 .		
	River Rejuvenation Committees in the States/UTs and CMC to continue functioning.	--	It was decided to conduct regular meeting of the River Rejuvenation Committees.
	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.	--	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.	--
10th meeting held on 09.07.2021			
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.
Public Grievance Portal of NMCG			
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



E-mail : paribesh1@ospcboard.org

FAX : 2562822/2560955
TEL : 2564033/2563294
EPABX : 2561909/2562847

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. 11883(6)

Dt. 26.07.2023

VI-SC (LEM) Misc-194/23-24

By Email

HIGH COURT MATTER

To

The Principal Secretary to Govt., Housing and Urban Development Department
The Director, Env-cum-Spl. Secretary, Forest, Environment and Climate Change Department
The Vice Chairman, Bhubaneswar Development Authority
The Commissioner, Bhubaneswar Municipal Corporation
The Engineer-in-Chief, Odisha Water Supply and Sewerage Board
The Managing Director, WATCO

Sub: Minutes of the Meeting with BDA, BMC and Resident Welfare Association held on 19.7.2023 at 3:30 PM in the 1st floor, Conference Hall of the Revenue Building, Lok Seva Bhawan, in compliance to the directions in WP(C) No. 7469 of 2017- Registrar Judicial, Orissa High Court, Cuttack vs. Union of India & Others order dated 15.5.2023, Reg

Sir,

In inviting a reference to above cited subject, I am directed to enclose herewith the minutes of meeting with BDA, BMC and Resident Welfare Association held on 19.7.2023 at 3:30 PM in the 1st floor, Conference Hall of the Revenue Building, Lok Seva Bhawan under the Chairmanship of the Additional Chief Secretary to Govt. in Forest, Environment and Climate Change Department in compliance to the direction at para 15 of the Order in WP(C) No. 7469 of 2017 dated 15.5.2023.

It is, therefore, requested to kindly submit the compliance status to the Board both in PDF and MS Word file (email: membersecretary@ospcboard.org) for necessary action at this end.

Encl : As above

Yours faithfully,

Chief Environmental Scientist

Memo No. 11884

Date 26.07.2023

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

Chief Environmental Scientist

Contd.. p/2



OSPCB-CL-MISC-0006-2023/5/2023

Memo No. 11885

Date 26.07.2023

Copy forwarded to the Senior PS to the Additional Chief Secretary, F, E and CC for kind information.


Chief Environmental Scientist

Memo No. 11886

Date 26.07.2023

Copy forwarded to the PS to the Member Secretary of State Pollution Control Board, Odisha, Bhubaneswar for kind information.


Chief Environmental Scientist

Memo No. 11887

Date 26.07.2023

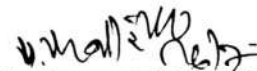
Copy forwarded to the Chief Environmental Scientist (ULB), State Pollution Control Board, Odisha, Bhubaneswar for kind information and necessary action.


Chief Environmental Scientist

Memo No. 11888 (401)

Date 26.07.2023

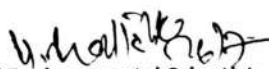
Copy forwarded to the Resident Welfare Association (401 Numbers, List annexed), Bhubaneswar Municipal Corporation area for kind information and necessary action.


Chief Environmental Scientist

Memo No. 11889

Date 26.07.2023

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


Chief Environmental Scientist

Govt. of Odisha

Forest, Environment and Climate Change Department

Meeting with BMC and Resident Welfare Association in compliance to the direction at Para 15 in the order of Hon'ble High Court in WP(C) No. 7469 of 2017- Registrar Judicial, Orissa High Court, Cuttack vs. Union of India & Others dated 15.5.2023 , held on 19.7.2023 at 3:30 PM in 1st Floor, Conference Hall of the Revenue Department, Lok Seva Bhawan

A meeting was held on Dt. 19.7.2023 under the Chairmanship of the Additional Chief Secretary to Govt. in Forest, Environment and Climate Change Department to review the actions taken on the restoration of Gangua nallah which is getting polluted by discharge of untreated wastewater of Bhubaneswar city.

The list of participants of the meeting were as follows.

1. Dr. K. Murugesan, IFS, Director, Env.-cum-Spl. Secretary, F E & CC Department
2. Sri Balwant Singh, IAS, Vice Chairman, Bhubaneswar Development Authority
3. Sri Vijay Amruta Kulange, IAS, Commissioner, Bhubaneswar Municipal Corporation
4. Ms. Durgesh Nandini Sahoo, Addl. Secretary, H & UD Department
5. Sri Prasant Kumar Mohapatra, Engineer-in-Chief, Odisha Water Supply and Sewerage Board
6. Sri Niranjan Mallick, Chief Env. Scientist, SPC Board, Odisha
7. Dr. Sohan Giri, Regional Officer, SPC Board, Bhubaneswar

As per the direction of Hon'ble High Court at para 15 of the order dated 15.5.2023, President/ Secretary of Seven Resident Welfare Associations in Bhubaneswar Municipal area, covering three zones of Bhubaneswar, such as, North, South West and South East zone, also invited to the meeting. List of participants on behalf of Resident Welfare Associations were as follows.

1. Sri Bhaktabandhu Das, Secretary, Nigamananda Nagar Welfare Association
2. Sri Bhagabat Prasad Das, President, Acharya Vihar Parishad
3. Mrs. Meena Patnaik, Secretary, Kedargouri Residential Welfare Association
4. Ms. Mamata Lenka, Secretary, K-8, Kalinganagar Residential Welfare Association
5. Sri Gajendra Nath Bar, President, Sweet Housing Complex, Unit-6, Ganganagar
6. Sri Radhakanta Das, president, Rangamatia Social forum
7. Sri Priyabrata Mishra, Member, Rangamatia Social Forum

Dr. K. Murugesan, IFS, Director Environment cum Member Secretary, State Pollution Control Board, Odisha welcomed all the members attended the meeting and briefed about the pollution of Gangua nallah due to the discharge of untreated wastewater of Bhubaneswar through ten major natural drains within the city limit. As Gangua nallah discharges to Daya nallah which outfalls into Chilika lake, he stressed upon the restoration of Gangua nallah. As Gangua nallah is also being reviewed under Hon'ble NGT case and being



regularly reviewed by the Central Monitoring Committee under the Chairmanship of the Secretary, Ministry of Jal Shakti, constituted by the Hon'ble NGT, he has requested for a coordinated approach of Bhubaneswar Development Authority, Bhubaneswar Municipal Corporation and Resident Welfare Associations for timely completion of several actions being taken by the State Government for restoration of water quality of Gangua nallah. Further he mentioned that, though only seven Resident welfare Associations were invited to the meeting, the minutes of the Meeting will be circulated to all Resident Welfares Associations of Bhubaneswar for information and compliance.

With the permission of the Chair, Vice Chairman, Bhubaneswar Development Authority made a power-point presentation on the compliances made so far to achieve the gap regarding the management of wastewater and solid waste in the Bhubaneswar city as per the agenda points of discussion as follows.

Agenda Points	Compliances presented	Decisions
(a) Actions taken for installation of Sewage treatment Plant in Bhubaneswar and to be operated with full capacity utilization.	5 nos. of STPs (such as Meherpalli (56 MLD), Basuaghai (28 MLD), Kochilaput (43.50 MLD), Paikarapur (8 MLD) and Rokati (48 MLD)) having total capacity of 183.5 MLD has been constructed, commissioned and made operational. The Sewerage Project of Bhubaneswar city has been handed over to WATCO.	Action may be taken for full capacity utilization of the STPs by completing the sewerage network and house sewer connections at the earliest. Mechanism may be evolved for levying user charge to the households, corporate/ business sectors, commercial establishments etc.
(b) Completion of sewerage network and house sewer connection	988.06 km of sewage network has been laid in Bhubaneswar city of which Old network: 444 km and new network: 544.06 km. 1,09,644 (50.26%) nos. of House sewer connection has been made out of 2,18,124 nos. of Households. WATCO will prepare DPR for sewerage connections in slum and non-slum households and implement the project so that all the households are connected to the sewerage system.	
(c) Plans for Utilisation of treated water from STPs in Malls, industrial Estates, Automobile establishments, Play grounds, Railway Stations, Bus Stands, Fire fighting gardening etc to save potable water for drinking purpose	A City Coordination Committee (CCC) under the Chairmanship of Vice Chairman of BDA has been constituted for the following activities. a. Pond treatment system in vacant land of STPs shall be taken up by WATCO as per the decision taken in the meeting held under the Chairmanship of Principal Secretary, H & UD Dept.. on 08.07.2023. b. Rejuvenation of Waterbodies, increase in the stormwater treatment capacity area by	To be followed up. SPCB to provide information on the compliance status of industries operating in Bhubaneswar.

	desilting and canal widening along with in-stream ecological treatment of water in the stormwater drain network has been initiated. c. Pilot projects in Drain 10 (Lake Zone1 – BDA City Centre), Drain 7 (Spring Tank) are under progress. DPRs for Drain 10 (Lake Zone3) & Drain 4 (Utkal University) have been prepared. d. Enumeration of Industrial units, Effluent Treatment Facilities and types of pollutants in the Industrial areas is under progress by IDCO. e. Reuse of treated waste water are being done mostly for gardening purposes.	
(d) Actions taken for Septage Treatment Plant in Bhubaneswar	Two Septage Treatment Plants each of 75 KLD capacity have been commissioned and operating in Bhubaneswar. All Cesspool vehicle operators have been instructed to register under BMC, to be geo-tagged. Actions are being taken to impose fines for violators.	To be followed up.
(e) No faecal contaminants are discharged into water streams/ponds/rivers	Bhubaneswar Municipal Corporation has published a notification vide no. 45196 dated. 20.09.2022 in leading English news Paper and Vernacular language to inform as follows: a. All the individual households are to connect the grey water to the existing sewer network or construction of captive septic tanks and ensure de-sludging of septic tanks once in 3 years. b. All apartment complexes, gated communities, commercial establishments, RWAs, BWGs, offices, and institutions existing under BMC administrative control to construct captive sewage treatment plants/septic tanks and connect the outlet treated water to the operational sewerage network in the concern area.	To be followed up.

(f) Control of open defecation through construction of community toilets/ Public toilets/ individual House hold toilets	Actions have been taken to install community/Public/ Mobile/E toilets to control open defecation practice. So far, 122 nos. of Community Toilets, 57 nos. of Public Toilet, 25 nos. of E-Toilet, 3 nos. of Mobile Toilet with total sitting capacity of 1586 nos. have already been constructed in the city limits. Further, there is a proposal of 63 numbers of community toilets with under JAGA mission with total sitting capacity of 4149 nos.	To be followed up.
(g) Municipal solid waste dump site management	Bio-mining work commenced for the management of Legacy Waste at Bhuasuni Dumpsite (approximately 16 Lakh MT quantity)	Steps to be taken for air pollution, water pollution, foul smell and for maintaining the ground water quality to be taken. Biomining work to be completed as proposed.
(h) Generation of awareness with public participation and contribution.	Generating awareness with public participation as follows are being carried out for promoting sustainable practices, addressing environmental issues, and achieving positive change. ■ Orientation of BWGs and RWAs on Decentralised Waste Management System. ■ Community Participation through 'MO WARD' meetings. ■ Orientation on Mu Safaiwala Campaign to RWAs and Schools. ■ Campaign on Source segregation, prohibition of open dumping in public place, road, canals and rivers and scientific management of municipal waste. ■ RRR (Reduce Reuse and Recycle) campaign organized by BMC to encourage people to reduce their waste, recycle properly, and reuse items in order to create a more sustainable environment. ■ Campaign in marketplaces, haats, Malls and other commercial establishments on	To be followed up.

	ban of single use plastics.	
(i) Prevention of indiscriminate dumping of solid waste on the river bank	To prevent indiscriminate dumping of solid waste on the river bank awareness campaigns were being carried out and public notices were being issued to avoid open dumping in public places, roads, drains, canals, water bodies etc.	To be followed up. Imposition of fines on violators may be taken up.
(j) Comprehensive plan to be made for control of (Solid & liquid) pollution with allocation of adequate budget provision.	Steps are being taken for the decentralised method of management of solid wastes through commissioning of MRF and MCC facilities. Besides, the Centralised wastewater treatment system like installation of STPs and connecting through Sewer network, decentralized wastewater system like onsite sanitation system, containment of sewage and septage and measures to take them to the Septage treatment plants are also in process.	To be followed up.
(k) 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.	There are approved 1554 nos of Apartment Building, 39 commercial Building, 45 Hotel Buildings and 31 Institutional Buildings in Bhubaneswar.	To be followed up to ensure installation of onsite sanitation systems. SPCB to ensure compliance to the discharge norms.
(l) For projects above 20,000 square meter on site STP to treat 100 % sewage generated and channelising treated sewage for non-potable purposes. STPS are to be operated properly and monitoring is to be done for compliance of	There are 81 large projects having more than 20,000 sq. m built-up area	SPCB to ensure compliance regarding installation of STPs, their functionality and compliance to discharge norms

discharge standard.		
(m) Solid waste management Practice	To ensure solid waste management by Resident Welfare Associations (RWAs) several campaigns were being carried out by BMC for compliance of the following: - Source segregation of waste at least into three categories such as dry, wet and domestic hazardous waste. - Processing of segregated waste by developing captive scientific processing facilities for dry and wet waste. - The RWAs or BWGs who do not have in house processing facilities shall avail the door-to-door collection facilities provided by BMC on submission of user charges. - The segregated waste need to be handed over to the designated vehicles only engaged by BMC. - Throwing or dumping of garbage in public places, drains, water bodies, vacant lands and other places other than designated for the said purpose is completely banned and penal action shall be taken against the violator as per appropriate statutory provisions.	Compliance report of Resident Welfare Associations (RWAs) regarding the solid waste management practice to be submitted within one month.
(n) Effectiveness of ban on single use plastic to reduce the plastic waste generation from the residential complex	BMC commissioner informed that till date Rs. 53,51,920/- Fine towards enforcement of Ban on Single Use Plastic and has seized 30 MT of banned items.	RWAs to ensure the effectiveness of ban on single use plastic .
(o) Illegal encroachment on the drainage path of natural drains.	Regular enforcement activities are being carried out by Zonal Dy. Commissioner (ZDC) and central enforcement team to avoid illegal encroachment on the drainage paths of natural drains.	To be followed up by the BDA and BMC.
(p) Allocation of budget for environmental management in Resident		To be followed by the RWAs

Welfare Fund.	Association		
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Concluding Remarks

The Chairman appreciated the actions already taken by the Bhubaneswar Development Authority, Bhubaneswar Municipal corporation and the Board and directed to take actions for proper compliance of the actions envisaged under control of solid waste and liquid waste management of Bhubaneswar city and as per the directions issued from time to time. He advised to work in proper co-ordination so as to uphold the Garima of Bhubaneswar city as a Smart City. The Residents of Bhubaneswar should not think only about their Rights of living in Bhubaneswar, but also give proper justice to their responsibilities to their local environment as well as the environment in a broader prospect.

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



Shri Satyabrata Sahoo, I.A.S.

Addl. Chief Secretary to Govt.

Forest, Environment and Climate Change Department
Govt. of Odisha



Orissa Water Supply & Sewerage Board

Satyanagar, Bhubaneswar-751 007

Phone:(0674) 2571185, e-mail : eicowsb@gmail.com

No. 3010 /dt. 25.08.2023
W-11/2022

To

The Vice Chairman, BDA, Bhubaneswar
The Municipal Commissioner, BMC, Bhubaneswar
Chief Executive Officer, WATCO, Bhubaneswar
Chief General Manager, IDCO, Bhubaneswar
CE-cum-Addl. Secy. to Govt.
H&UD Department, Govt. of Odisha
Planning Member, BDA, Bhubaneswar
Chief Operating Officer, WATCO, Bhubaneswar
Chief District Medical Officer, Khurda
Superintending Engineer, PRACHI Division, W.R. Deptt.
Deputy Commissioner (Sanitation), BMC, Bhubaneswar
Superintending Engineer (Drainage), BMC, Bhubaneswar
General Manager (Special Project), BSCL, Bhubaneswar
Divisional Head, IDCO, Bhubaneswar
Regional Officer, OSPCB, Bhubaneswar
The GIS Specialist, ORSAC
The Tahasildar, Bhubaneswar
Sri Chinmoy Tripathy, M/s TEC, OISIP, JICA
Sri Cherysh Karuvely, PMU, PHEO

Sub: Minutes of the review meeting on Save Daya River held on 10.08.2023.

Sir,

With reference to the above, it is to enclose herewith the approved minutes of meeting held on **10th August, 2023** under the Chairmanship of Principal Secretary to Govt., H&UD Department for taking further necessary follow up action.

Yours faithfully,


Engineer-In-Chief

Memo No. 3011 /dt. 25.08.2023

Copy submitted to the Staff Officer of Principal Secretary to Govt., H&UD Department for kind information of the Principal Secretary, H&UD.


Engineer-In-Chief

MINUTES OF MEETING

Date : 10th August 2023 at 6:30 PM
Venue : Conference Hall, BDA, Bhubaneswar
Participants :

Sri G. Mathi Vathanan, Principal Secretary, H&UD Deptt.
Sri Balwant Singh, Vice Chairman, BDA
Sri Vijay Amruta Kulange, Commissioner, BMC
Sri Pradipta Kumar Swain, Chief Executive Officer (CEO), WATCO
Sri Prasanta Kumar Mahapatra, EIC, OWSSB
Sri Jaladhar Swain, Director, PMC WATCO
Sri Sarat Mishra, COO cum GM WATCO Bhubaneswar-I
Sri Manoranjan Sahu, GM (Special Project), Bhubaneswar Smart City
Sri Kausika Dhal, Engineer Member, BDA
Sri Goutam Chandra Das, SE, Drainage, BMC
Sri G S Bhuyan, Planning Member, BDA
Sri Chinmay Tripathy, PM, JICA
Sri Cherysh Karuvely, PMU
Sri Sudip Banik, PMU

Agenda: Principal Secretary Review of City Coordination Committee / Task Force for Save Daya Mission

The Vice Chairman, BDA welcomed all the participants, and the meeting agenda was briefed along with the status of key action points from the last review (dt. 08th July 2023).

The Key Points from review meeting are as follows:

1. Pond treatment system in vacant land of STPs

Fund Allocation:

Vice Chairman, BDA apprised about the proposals for 4 pond treatment projects in the vacant land of STPs at Meherpalli, Basuaghai, Kochilaput & Rokat with a combined capacity of **44 MLD and estimating to INR 25.36 Cr.** It was decided that these projects shall be taken up by utilizing the funds available with WATCO initially and can later be reimbursed by funds under AMRUT 2.0.

The status of project execution plan and WATCO was requested to complete the tender and mobilisation process for all the 4 projects by mid-October '23 and target completion of the projects by mid-February '23.

[Action by: WATCO]

2. Waterbody Rejuvenation Projects in Bhubaneswar

The progress of following waterbody rejuvenation projects under BDA and Bhubaneswar Smart City Limited were apprised:

Drain 10 – Lake Zone I: It was conveyed that the treatment portion has been completed other than the diversion portion and the lake portion waterbody work taken up under CSR is in progress, for the plaza development and waterbody augmentation works. The tender is to be opened by 22nd August 2023 and the executing agency shall be on-boarded by the end of August 2023. The completion timeline is 6 months, but it will be targeted to complete by January 2023 by expediting the works.

Drain 10 – Lake Zone II: On hold because of encroachments and rehabilitation requirements.

Drain 10 – Lake Zone III: For Plaza development, it was conveyed that the technical bid opening has been completed, and 4 agencies have participated. The contract shall be awarded within a week. The tender for treatment portion, forest park and waterbody under BDA has been invited with a deadline for bid submission as 20th August 2023.

Drain 4 – Vani Vihar Waterfront Park: The project includes water treatment, waterbody augmentation and park. Design and DPR have been completed and tender have been invited with a deadline for bid submission as 20th August 2023.

Commissioner, BMC explained about the progress of the projects under BMC:

Drain 7 – Spring Tank: Minor activities are in progress due to water logging at site on account of the monsoon, De-watering will be done, and the balance excavation work expedited. It was informed that the diversion of airport drain, and construction of embankments are on the verge of completion. It was conveyed that the targeted timeline for completion is October 2023.

Currently the progress is slower due to the monsoon but that the desired progress will be achieved as soon as the weather improves.

Fishery Pond, Laxmisagar near Drain 5: Currently the work has been put on hold due to the monsoon and work is set to start towards the end of September and targeted completion is December 2023.

Drain 10, Nayapalli Pond Haja: The Waterbody has been ecologically restored and drain diverted.

[Action By: BDA, BSCL, BMC]

3. Strategy for Sewage treatment Status for Institutional, Commercial and Residential buildings

The provision of sewerage connections in Institutional, commercial and residential buildings was appraised and it was informed that BDA will be conducting a detailed survey of all such entities. The survey will include the following checks:

- Whether the commercial / residential buildings are adhering to the standard STP norms
- Functional condition of STP, if present
- If not STP, are they connected to the sewerage network or not
- If not connected to sewerage network, record of when was the last time cesspool vehicle was used to clear the septic tanks

It was further decided that for the survey, appointment of the survey agency or Jalasathis, or any government institute or a private entity through due tendering process may be considered and onboarded within a month.

[Action By: BDA]

4. Biomedical Waste Collection & Disposal

The status and challenges with biomedical waste being generated by various hospitals, clinics, nursing homes & pathology labs and the current status of collection and disposal was discussed. It was further appraised that the medical practitioners operating privately at their residences must also be registered under CDMO office and must comply with the biomedical waste disposal norms.

An exhaustive survey is being conducted by BMC to identify the unregistered medical establishments. Based upon this survey, CDMO office shall be instructed to complete the registration of the balance establishments and take necessary actions against those violating the norms. It was recommended that the data collection of the medical establishments can be by Swachh Sathis and further corroborated by the ward officers of BMC and then their services can be utilized to conduct regular audits and heavy penalties be imposed on the non-compliant establishments. A mechanism for incentivizing the Swachh Sathis for conducting these audits is to be worked out.

It was requested that the survey be completed within a month by September 2023 and BMC Commissioner was requested to conduct a follow-up meeting with CDMO and monthly meeting schedule be prepared for regular review.

[Action By: CDMO, BMC]

5. Industrial Waste

It was apprised that survey of Industrial Units and classification of all waste generators in IDCO area is under progress and further scrutiny of the findings will be done to ensure 100% compliance.

[Action By: IDCO]

6. Land Ownership / RI details of areas along the course of Gangua Nallah

It was informed that BDA is currently working on the Land Ownership / RI details of areas along the course of Gangua Nallah and the Drains that empty out into it. BMC conveyed that Section 288 will be applied wherever required for land acquisition as per CDP and timeline for completion of land identification by BDA is 25th August, 2023.

[Action By: BDA, BMC]

7. Sewerage connections in Slum and Non-Slum areas

CEO, WATCO informed that the non-slum data has been analysed and per connection estimate is approximately INR 28,432. There are 53,471 nos. of connections in the non-slum areas that is targeted to be completed within a year.

It was recommended that the investment for the sewerage infrastructure be borne by the state and then the expenditure incurred towards the sewerage connections can be recovered from the consumers over a period of time with Discount provisions for consumers who pay a bulk amount in advance or alternatively provision for annual increment could be incorporated to reduce the timeline for payment in instalments.

WATCO was advised to get the data related to slums at different locations from Jaga Mission and prepare the DPR for the same. The DPRs for all Slums within BMC area shall be completed within 6 months and Pilot projects be taken up in around 15 slums in Bhubaneswar with a target to complete within the next 6 months.

[Action By: WATCO]

The meeting ended with thanks to and from the Chair.


25/8/23
Principal Secretary,
H&UD Department, Govt. of Odisha

Annexure- 6

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

Polluted River stretch: September, 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	0.9	6.3	160000	92000	350	NC
	Palasuni	6.5	0.4	12.0	92000	54000	240	NC
	Samantarapur	6.6	0.7	8.0	>160000	>160000	280	NC
	Vadimula	7.1	3.1	6.3	35000	17000	NA	NC
2. Daya River (Bhubaneswar to Bargarh) (Priority-IV)	Bhubaneswar D/s at Kanti	7.3	4.9	4.2	54000	17000	220	NC
	Bhubaneswar FD/s at Manitri	7.4	5.4	3.4	24000	7900	79	NC
	Daya at Kanas	7.8	4.6	1.8	54000	24000	130	NC
3. Kuakhai River (Urali to Bhubaneswar) (Priority-IV)	Bhubaneswar FU/s	7.1	7.4	1.4	3300	1100	33	C
	Bhubaneswar U/s	7.1	6.9	1.1	4900	2300	49	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)	

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	April,2023	7.2	< 1.0	9.566	110	33
Chandrasekharapur	April,2023	5.7	< 1.0	10.398	<1.8	<1.8
Khandagiri Area	April,2023	5.9	1.2	34.144	<1.8	<1.8
Capital Hospital Area,	April,2023	6.7	< 1.0	15.031	<1.8	<1.8
Laxmisagar area	April,2023	6.0	< 1.0	15.797	<1.8	<1.8
Secretariate-Govenor House- Old bus stand Area	April,2023	6.3	< 1.0	18.255	240	22
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

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

Sl. No.	Drain Name	BOD (mg/L)	FC (MPN/ 100 mL)
1.	at Raghunathpur Bridge	3.5	>160000
2.	Drain No. 1A at Patia (Near Sree Leather)	2.5	>160000
3.	Drain No. 1 (after Confluence of Drain 1 and 1A) at Patia near Club Town	51.0	>160000
4.	Drain No 1 (after confluence of Drain 1, 1A, 1B and 1C) at Kalikhamar railway bridge	2.7	>160000
5.	Drain No. 3 (after confluence of Drain No. 2) at Sameigadia	130.0	>160000
6.	Drain No. 4 at Chakeisiani Canal Road	73.0	>160000
7.	Drain No. 5 at Laxmi Vihar Phase-II	88.0	>160000
8.	Drain No. 6 at Badagada	53.0	>160000
9.	Drain No. 7 near Mahabir Road Culvert, Samantarapur	58.0	>160000
10.	Drain No. 8 (after confluence of Drain No. 8A) at Gandamunda	2.5	>160000
11.	Drain No. 9 at Ghatikia (Near DFO Office)	43.0	>160000
12.	Drain No. 9 (after confluence of drain No. 8) at Botanda	2.8	>160000
13.	Drain No 10 at Jharapada	33.0	>160000
14.	Drain No. 11 near Kuha	4.2	>160000

Polluted River stretch: September,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. Mangala (Along Puri) (Priority-V)	Mangala D/s at Golasahi	7.5	5.5	2.4	4000	2100	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) 2500 (permissible)	100 (Desirable) 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	April,2023	8.2	< 1.0	6.488	240	13
Near Jagannath Temple,	April,2023	7.9	< 1.0	1.878	<1.8	<1.8
Near Sea Beach	April,2023	6.7	< 1.0	52.568	<1.8	<1.8
Baliapanda	April,2023	7.8	< 1.0	13.133	<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.

Characteristic of Drain falling on Mangala River (September, 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)	7.5	3.2	40.0	25.0	1300	330

Polluted River stretch: September, 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))
5. Kathajodi River (Cuttack to Urali) (Priority-III)	Cuttack D/s	8.2	7.2	2.9	>160000	92000	240	NC
	Cuttack FD/s at Mattagajpur	8.3	7.6	2.3	13000	3300	130	NC
6. Serua River (Khandaeta to Sankhatrasa) (Priority-V)	Cuttack FD/s at Sankhatrasa	8.3	8.0	2.8	>160000	>160000	220	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) 2500 (permissible)	100 (Desirable) 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	April,2023	6.8	< 1.0	16.279	<1.8	<1.8
Madhupatna-Kalyan Nagar Area	April,2023	6.8	< 1.0	<1.33	1600	170
GW,Bidanasi-Tulasipur	April,2023	6.6	< 1.0	<1.33	<1.8	<1.8
Badambadi Area	April,2023	7.4	< 1.0	<1.33	<1.8	<1.8
Mangalabag,	April,2023	6.9	< 1.0	<1.33	<1.8	<1.8
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 (September, 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	7.6	10.0	54.0	12.0	7900	2200
2	Wastewater discharge to Kathajodi river at CDA-Bidanasi area	7.6	3.3	24.0	13.0	2400	790
3	Wastewater discharge to Kathajodi river at Khannagar	7.4	78.0	160.0	50.0	>160000	>160000

Polluted River stretch: September, 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))
7. Brahmani (Rourkela to Biritola) (Priority-V)	Panposh D/s at Deogaon	7.3	6.4	3.2	54000	24000	130	NC
	Rourkela D/s at Jalda	6.9	6.5	3.4	35000	17000	110	NC
	Rourkela FD/s at Attaghat	6.5	5.5	3.2	4900	1700	13	NC
	Rourkela FFD/s at Biritola	6.7	6.5	1.5	1300	330	5	C
8. Guradih nallah Along Rourkela (Priority-III)	Rourkela (before confluence with Brahmani river)	7.3	4.1	4.3	35000	17000	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) 2500 (permissible)	100 (Desirable) 500 (Maximum Permissible)	

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

Polluted River stretch: September, 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))
9. Nandira jhor D/s Talcher (Priority-III)	Nandira D/s at Dasanali	7.7	6.4	1.5	3300	1300	<1.8	C
10. Banguru nallah Along Talcher (Priority-V)	Along Talcher	7.4	6.6	1.4	790	230	<1.8	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) 2500 (permissible)	100 (Desirable) 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	April, 2023	6.5	< 1.0	11.37	<1.8	<1.8
Meramundali area	April, 2023	7.1	< 1.0	1.34	<1.8	<1.8
Talcher Thermal area	April, 2023	7.1	< 1.0	3.25	<1.8	<1.8
Banarpal	April, 2023	7.2	< 1.0	31.28	<1.8	<1.8
Kulad	April, 2023	6.9	< 1.0	30.87	<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: September, 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))
11. Mahanadi (Sambalpur to Paradeep) (Priority-V)	Sambalpur D/s	7.4	6.8	1.5	1700	490	5	C
	Sambalpur FD/s at Shankarmath	7.3	6.8	1.7	790	220	<1.8	C
	Sambalpur FFD/s at Huma	7.5	7.0	1.4	2400	490	<1.8	C
	Sonepur U/s	7.8	7.6	1.2	1700	790	5	C
	Sonepur D/s	7.9	7.7	1.4	2400	1300	13	C
	Tikarpada	6.6	12.4	1.4	490	130	<1.8	C
	Narasingshpur	8.2	8.2	1.3	4900	2300	33	C
	Munduli	8.2	7.6	1.4	2800	790	70	C
	Cuttack U/s	7.7	8.4	1.6	4000	1700	17	C
	Cuttack D/s	8.0	8.0	1.8	>160000	92000	170	NC
	Cuttack FD/s	8.4	8.2	1.7	17000	4900	79	NC
	Paradeep U/s	7.2	6.5	1.2	1300	330	5	C
	Paradeep D/s	7.5	6.7	2.1	2200	490	11	C
12. Bheden Along Bheden (Priority-V)	Jharsuguda	6.9	8.4	1.6	1700	490	7	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)	

Water quality of Tributaries of Mahanadi River- September, 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	1.5	2400	490	NA	C
	Jharsuguda	6.9	8.6	1.3	2800	1100	NA	C
	Brajrajnagar U/s	6.8	8.0	1.8	2200	700	NA	C
	Brajrajnagar D/s	6.7	7.8	1.4	3300	1300	NA	C
Ong River	Dharuakhaman	7.8	8.1	1.2	1700	490	NA	C
Tel River	Monmunda	7.9	8.4	1.3	1300	330	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) 2500 (permissible)	100 (Desirable) 500 (Maximum Permissible)	

NA – Not Analysed

Ground Water quality

Stn Name	Month	pH	BOD, mg/L	Nitrate- mg/L	TC, MPN/ 100 mL	FC, MPN/ 100 mL
Sambalpur town Along Mahanadi River						
Near Panthanivas	April,2023	6.7	< 1.0	28.289	<1.8	<1.8
Near Railway station	April,2023	7.2	< 1.0	52.533	<1.8	<1.8
Near VSS Medical College, Burla	April,2023	7.4	< 1.0	3.242	<1.8	<1.8
Sonepur town Along Mahanadi River						
Near District Head Quarter Hospital, Sonepur	April,2023	7.6	< 1.0	41.334	<1.8	<1.8
Near Gundicha temple of Tentelghat, Sonepur	April,2023	7.7	< 1.0	37.835	<1.8	<1.8
Paradeep town Along Mahanadi River						
Badapadia market complex	April,2023	8.4	1.9	4.670	<1.8	<1.8
Musadiha	April,2023	8.4	1.4	6.642	<1.8	<1.8
Jharsuguda town in the catchment of Bheden river and Ib river						
Thelkoi	May, 2023	6.3	1.3	<1.329	<1.8	<1.8
Bhurkhamunda	April,2023	7.5	1.3	22.838	<1.8	<1.8
Badamal Industrial Estate	April,2023	7.1	< 1.0	1.334	<1.8	<1.8
Budhipadar	April,2023	6.5	< 1.0	13.133	<1.8	<1.8
Brajarajnagar Mining belt	April,2023	5.7	< 1.0	14.135	<1.8	<1.8
Rampur area (Water tank)	April,2023	6.6	< 1.0	2.191	<1.8	<1.8
Ib thermal power station	April,2023	5.9	< 1.0	0.506	<1.8	<1.8
Belpahar area	April,2023	6.3	< 1.0	0.190	<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: September, 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))
13. Luna (Along Bijipur, Puri) (Priority-V)	Luna at Bijipur	7.6	4.8	1.2	4900	1700	23	C
14. Ratnachira (Along Sakhigopal, Puri) (Priority-V)	Kumardihi	7.1	5.9	1.4	1700	490	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) 2500 (permissible)	100 (Desirable) 500 (Maximum Permissible)	

Polluted River stretch: September, 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	7.6	6.8	2.1	4700	1700	49	C
	Rayagada D/s	7.8	7.2	2.3	4000	1300	23	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	April, 2023	6.9	< 1.0	71.767	<1.8	<1.8
Within the premises of Badelapulama Temple, Rayagada	April, 2023	6.5	< 1.0	53.940	<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: September, 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	7.8	7.2	1.4	3300	780	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) 2500 (permissible)	100 (Desirable) 500 (Maximum Permissible)	

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

Polluted River stretch: September, 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 (Priority-V)	Along Tangi	7.4	6.8	1.5	4700	2200	49	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 Tangi town by State Pollution Control Board, Odisha

Polluted River stretch : September, 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 (Priority-V)	Madhopur	8.0	5.9	1.4	2400	790	11	C
	Potagarh	8.1	8.3	1.7	1300	330	13	C
19. Sabulia Along Jagannathpatna, Rambha (Priority-V)	Jagannathpatna, Rambha	7.6	5.3	1.5	4800	2400	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) 2500 (permissible)	100 (Desirable) 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	April, 2023	8.1	< 1.0	1.799	<1.8	<1.8
Badabazar	April, 2023	7.3	< 1.0	31.752	<1.8	<1.8
Railway station	April, 2023	7.5	< 1.0	5.858	<1.8	<1.8
Bus stand	April, 2023	7.5	< 1.0	71.820	<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/November of each year

Annexure- 7 (a)

Status of Polluted River stretches in the State of Odisha during the period 2017-2023 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 (till Sept) (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	Kuakhai (Along Bhubaneswar)	Priority-IV (7.7)	Clean (1.6)	Clean (2.8)	Clean (1.8)	Clean (1.9)	Clean (1.9)	Clean (1.7)	Clean (Improved)
4	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)
5	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 (4.2)	Priority has been reduced from III to V (Improved)
6	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 (3.7)	No Improvement
7	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 (5.3)	No Improvement
8	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 (6.7))	Priority has been reduced from III to IV (Improved)
9	Nagavali (Jaykaypur to Rayagada)	Priority-V (3.5)	Clean (2.8)	Clean (2.2)	Clean (2.1)	Clean (2.1)	Clean (2.4)	Clean (2.3)	Clean (Improved)
10	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 (1.9)	Clean (Improved)
11	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 (1.8)	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 (2.4)	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 (2.2)	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 (1.6)	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 (2.4)	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 (1.6)	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 (1.9)	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 (2.0)	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 (Sept-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)
Total :	19	19	19	19	19	19	19

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

Water quality of Rivers in Odisha during September, 2023

Total River water quality Monitoring Station: 129

No. of stations monitored: 129

No. of stations conforming to Bathing Water quality: 100

(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	1.5	2400	490	NA	C
	2	Jharsuguda	6.9	8.6	1.3	2800	1100	NA	C
	3	Brajrajnagar U/s	6.8	8.0	1.8	2200	700	NA	C
	4	Brajrajnagar D/s	6.7	7.8	1.4	3300	1300	NA	C
Bheden	5	Jharsuguda	6.9	8.4	1.6	1700	490	7	C
Hirakud Reservoir	6	Hirakud	7.5	7.2	1.4	2400	790	NA	C
Mahanadi	7	Sambalpur U/ s	7.4	7.0	1.3	1100	330	NA	C
	8	Sambalpur D/ s	7.4	6.8	1.5	1700	490	5	C
	9	Sambalpur FD/ s at Shankarmath	7.3	6.8	1.7	790	220	<1.8	C
	10	Sambalpur FD/S at Huma	7.5	7.0	1.4	2400	490	<1.8	C
	11	Power Channel U/s	7.4	6.6	1.2	1300	230	NA	C
	12	Power Channel D/s	7.3	6.8	1.4	4900	1300	NA	C
	13	Sonepur U/s	7.8	7.6	1.2	1700	790	5	C
	14	Sonepur D/s	7.9	7.7	1.4	2400	1300	13	C
	15	Tikarpada	6.6	12.4	1.4	490	130	<1.8	C
	16	Narasingshpur	8.2	8.2	1.3	4900	2300	33	C
	17	Munduli	8.2	7.6	1.4	2800	790	70	C
	18	Cuttack U/s	7.7	8.4	1.6	4000	1700	17	C
	19	Cuttack D/s	8.0	8.0	1.8	>160000	92000	170	NC
	20	Cuttack FD/s	8.4	8.2	1.7	17000	4900	79	NC
	21	Paradeep U/s	7.2	6.5	1.2	1300	330	5	C
	22	Paradeep D/s	7.5	6.7	2.1	2200	490	11	C
Ong	23	Dharuakhaman	7.8	8.1	1.2	1700	490	NA	C
Tel	24	Monmunda	7.9	8.4	1.3	1300	330	NA	C
Kathajodi	25	Cuttack U/s	8.2	7.8	1.5	2400	790	NA	C
	26	Cuttack D/s	8.2	7.2	2.9	>160000	92000	240	NC
	27	Cuttack FD/s at Mattagajpur	8.3	7.6	2.3	13000	3300	130	NC
	28	Cuttack FFD/s at Kamasasan	8.3	7.2	1.8	17000	4900	NA	NC

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	8.3	8.0	2.8	>160000	>160000	220	NC
Kuakhai	30	Bhubaneswar FU/s	7.1	7.4	1.4	3300	1100	33	C
	31	Bhubaneswar U/s	7.1	6.9	1.1	4900	2300	49	C
Daya	32	Gelapur	7.5	8.8	1.7	3300	1300	70	C
	33	Bhubaneswar D/s	7.3	4.9	4.2	54000	17000	220	NC
	34	Bhubaneswar FD/s	7.4	5.4	3.4	24000	7900	79	NC
	35	Kanas	7.8	4.6	1.8	54000	24000	130	NC
Birupa	36	Choudwar	8.3	8.2	1.7	4900	2200	NA	C
Gangua nallah	37	Rajdhani Engineering College	6.9	0.9	6.3	160000	92000	350	NC
	38	Palasuni	6.5	0.4	12.0	92000	54000	240	NC
	39	Samantarapur	6.6	0.7	8.0	>160000	>160000	280	NC
	40	Vadimula	7.1	3.1	6.3	35000	17000	NA	NC
Kushabhadra	41	Bhingarpur	7.5	5.1	1.3	92000	35000	NA	NC
	42	Nimapara	7.6	8.8	1.3	4000	2200	NA	C
	43	Gop	7.7	4.3	1.3	24000	7900	NA	NC
Gobari	44	Kendrapada U/s	7.1	2.9	1.2	7900	3300	NA	NC
	45	Kendrapada D/s	7.1	3.1	1.6	17000	4900	NA	NC
Mangala	46	Mangala U/s at Malatipatpur	7.4	4.8	1.3	2200	790	NA	NC
	47	Mangala D/s at Golasahi	7.5	5.5	2.4	4000	2100	NA	C
Bhargavi	48	Chandanpur	7.3	4.6	2.0	1300	330	NA	NC
Devi	49	Machhagaon	7.2	5.2	1.3	2400	790	NA	C
Luna	50	Luna at Bijipur	7.6	4.8	1.2	4900	1700	23	NC
Sabulia	51	Rambha, Jagatnnathpatna	7.6	5.3	1.5	4800	2400	33	C
Kusumi	52	Tangi	7.4	6.8	1.5	4700	2200	49	C
Kansari	53	Banapur	7.5	6.6	1.8	3300	1700	NA	C
Badasankha	54	Langalaeswar	7.4	5.0	2.0	4900	2300	NA	C
Ratnachira	55	Kumardihi	7.1	5.9	1.4	1700	490	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 (D) 2500 (P)	100 (D) 500 (P)	-

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	6.8	1.4	4900	2300	NA	C
	2	Panposh D/s	7.3	6.4	3.2	54000	24000	130	NC
	3	Rourkela D/s at Jalda	6.9	6.5	3.4	35000	17000	110	NC
	4	Rourkela FD/s at Attaghat	6.5	5.5	3.2	4900	1700	13	NC
	5	Rourkela FFD/s at Biritola	6.7	6.5	1.5	1300	330	5	C
	6	Bonaigarh	6.8	6.9	2.1	4700	2200	NA	C
	7	Rengali	7.1	8.8	1.2	330	78	NA	C
	8	Samal	7.2	9.0	1.3	4900	1700	NA	C
	9	Talcher FU/s	7.1	6.4	1.2	1300	330	NA	C
	10	Talcher U/s	7.2	6.8	2.4	2400	790	NA	C
	11	Mandapal	7.2	7.4	1.3	7900	3300	46	NC
	12	Talcher D/s	7.1	7.4	1.2	3300	1300	NA	C
	13	Talcher FD/s	7.3	7.2	1.5	790	330	NA	C
	14	Dhenkanal U/s	7.8	7.0	1.2	2200	790	NA	C
	15	Dhenkanal D/s	7.7	6.4	1.5	3300	1300	<1.8	C
	16	Bhuban	7.6	6.0	1.7	1700	330	NA	C
	17	Kabatabandha	7.1	7.2	1.2	1300	330	NA	C
	18	Dharmasala U/s	7.2	7.4	1.4	2400	790	NA	C
	19	Dharmasala D/s	7.2	7.4	1.3	3500	1300	NA	C
	20	Pottamundai	8.1	6.9	1.3	1700	490	NA	C
Kharasrota	21	Khanditara	8.4	6.6	1.4	3300	1300	NA	C
	22	Binjharpur	8.2	6.5	1.5	4900	1700	NA	C
	23	Ali	7.3	6.1	1.2	4000	1700	NA	C
Nandira jhor	24	Nandira U/s	8.2	6.9	1.2	1700	330	NA	C
	25	Nandira D/s	8.0	7.0	1.3	2800	940	NA	C
Kisindajhor	26	Kisindajhor	7.3	6.3	1.2	3500	940	NA	C
Sankh	27	Sankh U/s	7.3	6.3	1.2	2800	1100	NA	C
Koel	28	Koel U/s	7.3	6.0	1.3	2200	790	NA	C
Guradih nallah	28	Rourkela (before confluence with Brahmani River)	7.3	4.1	4.3	35000	17000	79	NC
Badajhor	30	Badajhor	7.5	6.0	1.2	4700	2200	NA	C
Damsala	31	Dayanabil	8.0	6.2	1.5	2200	790	NA	C
Gondanallah	32	Marthapur	8.0	4.3	1.7	3500	1300	NA	NC
Karo	33	Barbil	6.9	6.7	1.3	2200	790	NA	C
Lingira	34	Lingira U/s	8.2	11.4	1.2	1700	490	NA	C
	35	Lingira D/s	8.1	10.4	1.8	2800	1300	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	7.4	6.6	1.3	2800	790	NA	C
Bangurunallah	37	Bangurunallah	7.4	6.6	1.4	790	230	<1.8	C
Singadajhor	38	Singadajhor	7.5	7.6	1.2	1300	330	NA	C
Tikira	39	Kaniha U/s	7.7	7.6	1.2	4000	2100	NA	C
	40	Kaniha D/s	7.5	6.8	2.0	4700	2200	NA	C
Bangurusingadajhor	41	Bangurusingadajhor	7.6	6.6	1.2	1400	330	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 (D) 2500 (P)	100 (D) 500 (P)	-

(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	6.2	1.7	3500	1100	NA	C
Kusei	2	Deogaon	7.6	7.1	1.9	4900	2200	NA	C
Baitarani	3	Naigarh	7.1	6.9	1.2	790	230	NA	C
	4	Unchabali	7.1	6.8	1.3	1300	330	NA	C
	5	Champua	7.2	6.3	1.7	2400	790	NA	C
	6	Tribindha	7.3	7.0	1.2	4900	1300	NA	C
	7	Joda	7.3	6.6	1.3	4000	1300	NA	C
	8	Anandpur	7.2	7.6	1.5	1300	490	NA	C
	9	Jajpur	8.2	6.8	1.6	2400	790	NA	C
	10	Chandbali U/s	6.8	4.8	1.2	3300	1300	NA	NC
	11	Chandbali D/s	7.1	4.4	1.4	4900	1400	NA	NC
Dhamra	12	Dhamra	7.4	6.0	1.2	2400	790	NA	C
Salandi	13	Bhadrak U/s	7.1	5.6	1.2	1700	490	NA	C
	14	Bhadrak D/s	7.2	6.4	1.5	3300	1300	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 (D) 2500 (P)	100 (D) 500 (P)	-

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	7.2	5.4	1.3	4000	2100	NA	C
Badanadi	2	Aska	8.1	6.8	1.7	2800	1100	NA	C
Rushikulya	3	Aska	7.8	7.3	1.4	3500	1100	NA	C
	4	Nalabanta	7.9	7.6	1.5	4900	1700	NA	C
	5	Madhopur	8.0	5.9	1.4	2400	790	11	C
	6	Potagarh	8.1	8.3	1.7	1300	330	13	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 (D) 2500 (P)	100 (D) 500 (P)	-

(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	7.4	6.0	1.2	700	230	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 (D) 2500 (P)	100 (D) 500 (P)	-

(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	7.8	7.2	1.4	3300	780	NA	C
	2	Balasore U/s	7.8	6.4	1.2	2400	790	NA	C
	3	Balasore D/s	7.7	5.6	1.2	4900	1700	NA	C
	4	Hatiagond (Sona)	7.7	6.4	1.2	17000	1300	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 (D) 2500 (P)	100 (D) 500 (P)	-

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	8.3	7.1	1.2	3500	1400	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 (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	7.8	6.9	2.2	2400	330	NA	C
	2	Jaykaypur D/s	7.6	6.8	2.1	4700	1700	49	C
	3	Rayagada D/s	7.8	7.2	2.3	4000	1300	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 (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	7.7	7.4	1.6	3500	940	NA	C
	2	Gunupur	7.8	7.4	1.5	2200	790	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 (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	6.8	5.8	1.2	3300	780	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 (D) 2500 (P)	100 (D) 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	6.7	4.5	1.2	1100	220	NA	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 (D) 2500 (P)	100 (D) 500 (P)	-

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

No. HH GIS & CEM-149/23

28570/UE

Dt.

07.10.23

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 September -2023.

Sir,

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 September -2023 for favour of kind information and necessary action.

Yours faithfully,

Encl: As above

Chief Engineer, HH, GIS & CEM

Memo No.

28571/UE

Dt. 07.10.23

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.

28572/UE

Dt. 07.10.23

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 September- 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. Govt. of Odisha has formulated an act for regulation of groundwater namely "The Odisha Groundwater (Regulation, Development and Management) Act , 2011"
2. Central Ground Water Board (CGWB) and District Level Evaluation Committee (DLEC) strictly control the groundwater abstraction by the industries.
3. 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

A Cross Regulator has been constructed at the off taking point of Gangua Nalla to divert the flood discharge (Approximately 30 % of flood water) of Chandaka Catchment to Kuakhai river through Budhi Nalla in order to save Bhubaneswar city from urban flooding. This is one of the flood plain zone protection works in Gangua Nalla which has been executed by DoWR.

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

Rooftop Rainwater Harvesting Structures (RRHS)

Year	Govt. Building		Private Building	
2018-19	358		9438	
2019-20	Nil		Nil	
2020-21	Nil		Nil	
2021-22	Nil		Nil	
2022-23	282		3487	
2023-24	Taken-up	Completed	Taken-up	Completed
Upto 09/2023	372	233	4236	4880

Ground Water Recharge

I. Through wells (recharge shafts in tanks & ponds)		
Year	Taken up	Completed
2019-20	—	179
2020-21	—	65
2021-22	—	280
2022-23	—	748
2023-24 (Upto 09/2023)	478	350

II. Through check dam		
Year	Taken up	Completed
2010-11 to 2019-20	—	15604
2020-21	—	229
2021-22	—	34
2022-23	—	220
2023-24 (Upto 09/2023)	—	88

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

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.

COO
31/10/23
Chief Engineer
HH, GIS & CEM

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

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

28566/ue

Date: 07.10.23

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 September -2023.

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 September -2023 for favour of kind information and necessary action.

A statement showing release of water upto 3 cusec to Gangua Nallah through Palasuni Escape at RD 12.640 km of Daya West Branch Canal during September-2023 (01.09.2023 to 30.09.2023), is enclosed for your kind perusal.

Encl: As above.

Yours faithfully,

Memo No.

28567

Date

07.10.23

Chief Engineer, HH, GIS & CEM

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

Memo No.

28568

Date

07.10.23

Chief Engineer, HH, GIS & CEM

Copy with enclosures through e-mail 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.

Memo No.

28569

Date

07.10.23

Chief Engineer, HH, GIS & CEM

Copy submitted to the Engineer-in-Chief, Water Resources/ Engineer-in-Chief (P&D) Department, Bhubaneswar for favour of kind information.

Chief Engineer, HH, GIS & CEM

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

DATE	DISCHARGE IN CUSECS
1.09.2023	1
2.09.2023	2
3.09.2023	1
4.09.2023	1
5.09.2023	1
6.09.2023	1
7.09.2023	2
8.09.2023	3
9.09.2023	1
10.09.2023	1
11.09.2023	2
12.09.2023	2
13.09.2023	3
14.09.2023	1
15.09.2023	1
16.09.2023	1
17.09.2023	2
18.09.2023	2
19.09.2023	2
20.09.2023	3
21.09.2023	1
22.09.2023	2
23.09.2023	1
24.09.2023	1
25.09.2023	1
26.09.2023	2
27.09.2023	3
28.09.2023	2
29.09.2023	1
30.09.2023	3


 Asst. Executive Engineer
 BBSR Irr. Sub-Division
 Bhubaneswar

**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 30/09/2023)**

			GW BUDGET(RECHARGE SHAFTS)	
S/n	District	BLOCKS	Recharge Shaft programmed during the FY-2023-24	Recharge Shaft constructed during the FY-2023-24 (Upto 30/09/2023)
1	Angul	TALCHER	25	4
2	Balangir			
3	Balasore	BALIAPAL		
4	Bargarh			
5	Bhadrak			
6	Boudh			
7	Cuttack			
8	Deogarh			
9	Dhenkanal			
10	Gajapati			
11	Ganjam	GANJAM ASKA		
12	Jagatsinghpur			
13	Jajpur	KOREI		
14	Jharsuguda			
15	Kalahandi			
16	Kandhamal			
17	Kendrapara	GARADPUR		
18	Keonjhar			
19	Khordha	BHUBANESWAR BOLAGARH		
20	Koraput			
21	Malkangiri			
22	Mayurbhanj			
23	Nabarangpur			
24	Nayagarh	NAYAGARH	25	0
25	Nuapada	NUAPADA		
26	Puri	KAKATPUR		
27	Rayagada			
28	Sambalpur			
29	Sonepur	SONEPUR		
30	Sundargarh	BISRA		
TOTAL:			50	4


 Personal Asst. (1) to
 Director, GWD,
 Bhubaneswar

Roof Top Rain Water Harvesting In Govt. Buildings and Private Buildings (Up To 30/09/2023)

S/n	District	BLOCKS	CHHATA SCHEME(RRHS) IN 27 ULBs			
			RRHS IN GOVT.BUILDIN G	Constructed during the FY- 2023-24 (Upto 30/09/2023)	RRHS IN PVT.BUILDING	Constructed during the FY- 2023-24 (Upto 30/09/2023)
1	2	3	4	5	6	7
1	Angul	Anugul	3	3	50	36
2	Angul	Talcher	3		100	128
3	Bargarh	Bargarh	4	4	50	114
4	Bargarh	Padmapur	3		50	68
5	Bargarh	Barpalli	4	4	100	20
6	Bolangir	Bolangir	4	4	100	395
7	Bolangir	Titilagarh	4	4	150	65
8	Cuttack	Cuttack	5	4	200	185
9	Ganajam	Aska	6	4	150	105
10	Ganajam	Digapahandi	7		150	65
11	Ganajam	Hinjilikote	7		150	68
12	Ganajam	Berhampur	5	11	250	495
13	Jharsuguda	Jharsuguda	3		200	201
14	Keonjhar	Joda	4	2	100	81
15	Khurda	Khurda	7		150	125
16	Khurda	Bhubaneswar	5	5	730	941
17	Mayurbhanj	Baripada	5	2	200	304
18	Nabarangapur	Nabarangapur	3	3	100	120
19	Nayagarh	Nayagarh	5		200	210
20	Puri	Puri	7	5	150	182
21	Sambalpur	Sambalpur	2	2	200	292
22	Dhenkanal	Dhenkanal	3		100	116
23	Subarnapur	Tarava	3	2	100	30
24	Subarnapur	Sonepur	4	4	100	96
25	Sundargarh	Rourkela	4	4	200	198
26	Kendrapada	Kendrapada	5	5	100	134
27	Kendrapada	Pattamundai	7	7	106	106
	TOTAL:		122	79	4236	4880


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 30/09/2023))**

S/n	District	BLOCKS	ARUA SCHEME(RECHARGE SHAFTS)	
			Recharge Shaft programmed during the FY- 2023-24	Recharge Shaft constructed during the FY- 2023-24 (Upto30/09/2023)
1	2	3	4	5
1	Angul	Talcher	6	
2	Puri	Kakatpur	5	
3	Nayagarh	Nayagarh	6	8
4	Khurda	Khurda	12	16
5	Khurda	Bhubaneswar	37	6
6	Khurda	Bolagarh	41	48
7	Khurda	Balipatna	12	
8	Kendrapara	Garadpur	34	20
9	Jajpur	Korei	40	40
10	Jagatsinghpur	Kujanga	11	7
11	Kendrapara	Patamundai	11	18
12	Jajpur	Binjharpur	12	22
13	Cuttack	Cuttack sadar	11	7
14	Jajpur	Rasulpur	12	7
15	Jajpur	Jajpur	12	20
16	Jajpur	Dasarathpur	11	19
17	Bhadrak	Dhamnagar	5	
18	Mayurbhanj	Rasgovindpur	6	
19	Bargarh	Jharbandha	5	5
20	Bhadrak	Bhandaripokhari	6	
21	Balasore	Bahanga	6	6
22	Mayurbhanj	Badasahi	6	
23	Balasore	Remuna	6	6
24	Keonjhar	Joda	6	
25	Balasore	Baliapal	40	40
26	Nuapada	Nuapada	34	22
27	Bolangir	Loisinga	5	5
28	Bargarh	Bargarh	6	6
29	Subarnapur	Sonepur	6	6
30	Bargarh	Bhatli	6	6
31	Sundargarh	Bisra	6	6
32	Jharsuguda	Jharsuguda	6	
	TOTAL		428	346

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

Roof Top Rain Water Harvesting In Govt. Buildings (Up To 30/09/2023)

S/n	District	BLOCKS	CHHATA SCHEME(RRHS) IN 52 BLOCKS	
			RRHS IN GOVT.BUILDING (Programme for the year 2023-24)	Constructed during the FY-2023- 24 (Upto 30/09/2023)
1	2	3	4	5
1	Nayagarh	Nayagarh	9	
2	Khurda	Bolagarh	5	5
3	Dhenkanal	Dhenkanal	8	
4	Dhenkanal	Odapada	5	
5	Cuttack	Cuttack Sadar	0	
6	Jagatsinghpur	Naugaon	7	6
7	Jagatsinghpur	Kujanga	5	5
8	Jagatsinghpur	Jagatsinghpur	6	
9	Jajpur	Rasulpur	8	8
10	Jajpur	Binjharpur	10	10
11	Jajpur	Jajpur	4	4
12	Jajpur	Dasarathapur	3	3
13	Jajpur	Bari	5	5
14	Puri	Kakatapur	5	
15	Jajpur	Korei	3	3
16	Khurda	Balipatna	2	
17	Khurda	Bhubaneswar	10	
18	Khurda	Khurda	10	
19	Kendrapada	Pattamundai	5	5
20	Kendrapada	Kendrapada	0	
21	Kendrapada	Aul	5	5
22	Kendrapada	Garadpur	0	
23	Balesore	Remuna	5	5
24	Balesore	Nilagiri	10	5
25	Balesore	Jaleswar	10	5
26	Balesore	Baliapal	6	5
27	Balesore	Bahananga	4	5
28	Ganjam	Ganjam	0	6
29	Ganjam	Aska	0	4
30	Keonjhar	Joda	4	6
31	Jharsuguda	Jharsuguda	4	4
32	Bhadrak	Dhamanagar	4	4
33	Bhadrak	Bhadrak	10	4
34	Bhadrak	Bhandaripokhari	5	5
35	Angul	Talcher	8	8
36	Angul	Kaniha	5	5
37	Subarnapur	Tarava	3	
38	Subarnapur	Sonepur	5	
39	Sundargarh	Bisra	7	3
40	Baragarh	Bhatali	3	
41	Baragarh	Jharabandha	2	
42	Baragarh	Padmapur	2	
43	Baragarh	Baragarh	5	
44	Baragarh	Sohela	2	
45	Bolangir	Loisingha	4	
46	Bolangir	Bolangir	3	
47	Nuapada	Nuapada	3	3
48	Mayurbhanj	Rasagobindapur	5	3
49	Mayurbhanj	Badsahi	10	3
50	Mayurbhanj	Sukruli	2	3
51	Mayurbhanj	Udala	2	4
52	Mayurbhanj	Betonati	2	5
TOTAL:			250	154


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

DISTRICT WISE LIST OF COMPLETED CHECK DAMS FROM 2010-11 TO 2022-23 (UPTO THE MONTH OF SEPTEMBER 2023) RELATING TO MI

SL. NO.	DISTRICT	New Sanctioned Check Dams during 2021-22							
		2023-24							
		Nos. of sanctioned projects	Area benefitted in HA	No. of check dams completed			Area Benefitted in Ha.		
				No. of check dams completed by August 2023	During the Month of September 2023	Total Completed during 2023-24	Area Benefitted by August 2023 in Ha.	During the Month of September 2023	Total Ayacut created 2023-24
1	Angul	48	1041	15.00	1.00	16	331.00	15.00	346
2	Balangir	47	1148	11.00	4.00	15	318.00	60.00	378
3	Balasore	17	232	-	-	0	-	-	0
4	Baragarh	44	927	8.00	1.00	9	230.00	15.00	245
5	Bhadrak	7	230	-	-	0	-	-	0
6	Boudh	110	2918	27.00	-	27	686.00	-	686
7	Cuttack	60	1254	21.00	-	21	400.00	-	400
8	Deogarh	36	688	7.00	-	7	152.00	-	152
9	Dhenkanal	30	571	25.00	-	25	517.00	-	517
10	Gajapati	55	1234	13.00	-	13	357.00	-	357
11	Ganjam	60	1365	12.00	-	12	111.00	-	111
12	Jagatsinghpur	-	0	-	-	0	-	-	0
13	Jajpur	32	826	11.00	-	11	192.00	-	192
14	Jharsuguda	30	793	3.00	-	3	45.00	-	45
15	Kalahandi	37	1228	6.00	7.00	13	72.00	226.00	298
16	Kandhamal	144	2522	17.00	-	17	615.00	-	615
17	Kendrapada	23	436	-	-	0	-	-	0
18	Keonjhar	30	577	7.00	-	7	220.00	-	220
19	Khurdha	19	278	-	-	0	-	-	0
20	Koraput	37	781	5.00	-	5	116.00	-	116
21	Malkangiri	23	631	13.00	-	13	229.00	-	229
22	Mayurbhanj	135	2291	13.00	4.00	17	240.00	97.00	337
23	Nabarangpur	51	1486	17.00	-	17	231.00	-	231
24	Nayagarh	62	997	25.00	2.00	27	650.00	40.00	690
25	Nuapada	8	299	2.00	-	2	38.00	-	38
26	Puri	-	0	-	-	0	-	-	0
27	Raygada	29	675	11.00	-	11	300.00	-	300
28	Sambalpur	71	1339	14.00	-	14	277.00	-	277
29	Subarnapur	4	59	1.00	-	1	15.00	-	15
30	Sundargarh	31	780.00	5.00	-	5	135.00	-	135
Total		1280	27606	289	19	308	6477	453	6930

Pradyumn
5.10.2023
AEC(M&E)

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 -September, 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 Rooftop Rainwater Harvesting Structure (RRHS) in Govt. and Private Building in towns of Odisha.	2014-15 to 2018-19	131 nos in Govt. Buildings & 5359 nos. in Private Buildings	Bhubaneswar Town
			2019-20	Nil	
			2020-21	Nil	
			2021-22	Nil	
			2022-23	994 nos. in Private Buildings and 38 nos. in Govt. Buildings	
			2023-24	941 nos. in Private Buildings and 5 nos. in Govt. Buildings	
		Ground Water Recharge through construction of Recharge shaft 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 & 90 nos. in ARUA Scheme	
			2023-24	6 nos.	
		Construction of Check Dam	2019-20	534 nos. upto March, 2020	In Khordha Dist.
			2020-21	7 nos.	
			2021-22	3 nos.	
			2022-23	Nil	
			2023-24	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 -September, 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. 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 upto 03 Cusec to Gangua Nallah through Palasuni Escape from 01.09.2023 to 31.09.2023
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 -September, 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" . 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 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 Rooftop Rainwater Harvesting Structure (RRHS) in Govt. and Private Building in towns of Odisha.	2014-15 to 2018-19	131 nos in Govt. Buildings & 5359 nos. in Private Buildings	Bhubaneswar town
			2019-20	Nil	
			2020-21	Nil	
			2021-22	Nil	
			2022-23	994 nos. in Private Buildings and 38 nos. in Govt. Buildings under	
			2023-24	941 nos. in Private Buildings and 5 nos. in Govt. Buildings	
		Ground Water Recharge through construction of Recharge shaft 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 & 90 nos. in ARUA Scheme	
			2023-24	6 nos.	
		Construction of Check Dam	2019-20	534 nos. upto March, 2020	In Khordha Dist.
			2020-21	7 nos.	
			2021-22	3 nos.	
			2022-23	Nil	
			2023-24	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 -September, 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. 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

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 -September, 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". 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 Rooftop Rainwater Harvesting Structure (RRHS) in Govt. and Private Building in towns of Odisha.	2014-15 to 2018-19	7 no in Govt. Buildings & 76 nos. in Private Buildings	Rourkela town
			2019-20	Nil	
			2020-21	Nil	
			2021-22	Nil	
			2022-23	6 nos. in Govt. Building & 58 nos. on Pvt. Buildings.	
			2023-24	4 nos. in Govt. Building and 198 nos. in private building	
		Ground Water Recharge through construction of Recharge shaft 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 Check Dam	2023-24	6 nos.	In Sundargarh Dist.
			2019-20	742 nos. upto March.	
			2020-21	Nil	
			2021-22	Nil	
			2022-23	5 nos.	
			2023-24	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 -September, 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
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. 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 -September, 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 Rooftop Rainwater Harvesting Structure (RRHS) in Govt. and Private Building in towns of Odisha.	2014-15 to 2018-19	7 no in Govt. Buildings & 76 nos. in Private Buildings	Rourkela town
			2019-20	Nil	
			2020-21	Nil	
			2021-22	Nil	
			2022-23	6 nos. in Govt. Building & 58 nos. on Pvt. Buildings.	
		Ground Water Recharge through construction of Recharge shaft in tanks and ponds	2023-24	4 nos. in Govt. Building 198 nos. in private building	In Sundargarh Dist.
			2019-20	4 nos.	
			2020-21	5 nos.	
			2021-22	5 nos.	
			2022-23	10 nos. through GW Budget and 8 nos. through ARUA Scheme	
		Construction of Check Dam	2023-24	6 nos.	In Sundargarh Dist.
			2019-20	742 nos. upto March, 2020	
			2020-21	Nil	
			2021-22	Nil	
			2022-23	5 nos.	
			2023-24	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 -September, 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
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. 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.

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 -September, 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. 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 Rooftop Rainwater Harvesting Structure (RRHS) in Govt. and Private Building in towns of Odisha.	2014-15 to 2018-19	34 nos in Govt. Buildings & 633 nos. in Private Buildings	Puri town
			2019-20	Nil	
			2020-21	Nil	
			2021-22	Nil	
			2022-23	3 nos in Govt. Building & 180 nos. in Private Building	
			2023-24	5 nos in Govt. Building & 182 nos. in Private Building	
		Ground Water Recharge through construction of Recharge shaft 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 Check Dam	2023-24	Nil	In Puri Dist.
			2019-20	118 nos. upto March, 2020	
			2020-21	24 nos.	
			2021-22	Nil	
			2022-23	Nil	
			2023-24	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 -September, 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. 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 -September, 2023					
6. Name of the Polluted River Stretch :- Nagavalli (JK Pur to Rayagada)					
SI 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 Rooftop Rainwater Harvesting Structure (RRHS) in Govt. and Private Building in towns of Odisha.	2014-15 to 2018-19	Nil	
			2019-20	Nil	
			2020-21	Nil	
			2021-22	Nil	
			2022-23	Nil	
			2023-24	Nil	
		Ground Water Recharge through construction of Recharge shaft in tanks and ponds	2019-20	Nil	In Rayagada Dist.
			2020-21	Nil	
			2021-22	Nil	
			2022-23	Nil	
			2023-24	Nil	
		Construction of Check Dam	2019-20	833 nos. upto March, 2020	In Rayagada Dist.
			2020-21	Nil	
			2021-22	2 nos.	
			2022-23	9 nos.	
			2023-24	Nil	
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.			

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 -September, 2023					
6. Name of the Polluted River Stretch :- Nagavalli (JK Pur to Rayagada)					
SI 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
XVIII	Maintaining minimum e-flows of river	e-flow maintained. 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 -September, 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" . 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:	No irrigation water recharges river Kathajodi (from Cuttack to Uralli)			
XVI	Rainwater harvesting	Construction of Rooftop Rainwater Harvesting Structure (RRHS) in Govt. and Private Building in towns 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	23 nos. in Govt. Building & 374 nos. in Private Building	
			2023-24	4 nos. in Govt. Building & 185 nos. in Private Building	
		Ground Water Recharge through construction of Recharge shaft in tanks and ponds	2019-20	5 nos.	In Cuttack Dist.
			2020-21	Nil	
			2021-22	Nil	
			2022-23	Nil	
			2023-24	7 nos.	
		Construction of Check Dam	2019-20	699 nos. upto March, 2020	In Cuttack Dist.
			2020-21	6 nos.	
			2021-22	2 nos.	
			2022-23	14 nos.	
			2023-24	Nil	
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.			

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 -September, 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
XVIII	Maintaining minimum e-flows of river	e-flow maintained. 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 -September, 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 May).	Rotational water supply is maintained in Kharif & Rabi crops.	
XVI	Rainwater harvesting	Construction of Rooftop Rainwater Harvesting Structure (RRHS) in Govt. and Private Building in towns 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	23 nos. in Govt. Building & 374 nos. in Private Building	
			2023-24	4 nos. in Govt. Building & 185 nos. in Private Building	
		Ground Water Recharge through construction of Recharge shaft in tanks and ponds	2019-20	5 nos.	In Cuttack Dist.
			2020-21	Nil	
			2021-22	Nil	
			2022-23	Nil	
			2023-24	7 nos.	
		Construction of Check Dam	2019-20	699 nos. upto March, 2020	In Cuttack Dist.
			2020-21	6 nos.	
			2021-22	2 nos.	
			2022-23	14 nos.	
			2023-24	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 -September, 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. 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 -September, 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" 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 Sakshigopal 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 Rooftop Rainwater Harvesting Structure (RRHS) in Govt. and Private Building in towns of Odisha.	2014-15 to 2018-19	34 nos in Govt. Buildings & 633 nos. in Private Buildings	Puri town
			2019-20	Nil	
			2020-21	Nil	
			2021-22	Nil	
			2022-23	3 nos in Govt. Building & 180 nos. in Private Building	
			2023-24	5 nos in Govt. Building & 182 nos. in Private Building	
		Ground Water Recharge through construction of Recharge shaft 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	
			2023-24	Nil	
		Construction of Check Dam	2019-20	118 nos. upto March, 2020	In Puri Dist.
			2020-21	24 nos.	
			2021-22	Nil	
			2022-23	Nil	
			2023-24	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 -September, 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. 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. 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



Orissa Water Supply & Sewerage Board

(A Govt. of Odisha Undertaking)

Satyanagar, Bhubaneswar-751007 Phone: (0674)2571185

Email: eicowssb@gmail.com

No. 3387 /dt. 05.10.23
W-02/2021

To

The Additional Secretary to Govt.,
H & UD Deptt. (Sanitation Section)

Sub.: Furnishing progress report for the month of September 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.: 1. This office letter No. 1918 dtd. 23.05.2023
2. Memo No. 12516 /FE&CC. dtd. 13.06.2023
3. Letter No. 16246 dt.13.09.2021 of FE & CCDeptt.

Sir,

With reference to the subject cited 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 September 2023 in connection with works related to OWSSB is furnished herewith for information & necessary action.

The updated information related to sewerage management in the State will be provided by WATCO and PHEO as the construction and operation & maintenance of sewerage works of Bhubaneswar, Cuttack, Rourkela, Sambalpur, Puri & JICA assisted Odisha Integrated Sanitation Improvement Project (OISIP) in Cuttack City and Bhubaneswar Sewerage Dist-VI are under the jurisdiction of WATCO. The O&M work of Wastewater Treatment Plant at Talcher town is under the jurisdiction of PHEO.

This is for your information and necessary action.

Encl.: As above.

Yours faithfully,

Engineer-in-Chief, OWSSB

Memo No. 3388 /dt. _____

Copy with copy of enclosures submitted to the Director, Environment-cum-Special Secretary to Govt., Forest, Environment & Climate Change Department, Odisha, Bhubaneswar, Email: env1992@gmail.com / Member Secretary, State Pollution Control Board, Bhubaneswar for information and necessary action.

Encl.: As above.

Engineer-in-Chief, OWSSB

OA Nos.593,606 & 673 forwarding letter

[PTO]

Memo No. 3389 /dt. _____

Copy with copy of enclosures forwarded to the CEO, WATCO, Bhubaneswar for information and necessary action. It is requested to submit the required information related to Sewerage Systems on NGT matters to the Director, Environment-cum-Special Secretary to Govt., Forest, Environment & Climate Change Department Odisha (Email: env1992@gmail.com) and H & UD Deptt., Odisha, Bhubaneswar for compliance.

Encl.: As above.

Engineer-in-Chief,OWSSB

Memo No. 3390 /dt. _____

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. 3391 /dt. _____

Copy with copy of enclosures forwarded to the Engineer-in-Chief (PH), Odisha, Bhubaneswar for information and necessary action. It is requested to furnish the required information relating to Wastewater Treatment Plants at Talcher to the Director, Environment-cum-Special Secretary to Govt., Forest, Environment & Climate Change Department (Email: env1992@gmail.com) and H & UD Deptt., Odisha, Bhubaneswar for compliance.

Encl.: As above.

Engineer-in-Chief,OWSSB

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

(As on September - 2023)

(As on September - 2023)

Sl.	Action Point	A	B	C= B-A	D
		Existing Status	Desired/ Projected	Gap	Timeline
1	Estimated Sewage Generation (In MLD)	To be provided by WATCO			
2	Treatment Capacity (In MLD)				
a.	STP				
b.	Septage	1937 KLD (1.937MLD)	2087 KLD	150 KLD	Oct-23
3	Status of Sewerage System (in KM)	To be provided by WATCO			
4	No. of STP				
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)	To be provided by WATCO			
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.	-	-	-	-

**Status of Operational/ongoing Septage Treatment Plants
(As on September,2023)**

Sl. No.	Name of the ULBs	Capacity of SeTP (In KLD)	Remarks
1	Bhubaneswar	75	Operational
2	Berhampur	40	Operational
3	Cuttack	60	Operational
4	Rourkela	40	Operational
5	Sambalpur	20	Operational
6	Baripada	50	Operational
7	Balasore	60	Operational
8	Puri	50	Operational
9	Angul	18	Operational
10	Dhenkanal	27	Operational
11	Choudwar	12	Operational
12	Khordha	20	Operational
13	Jatani	20	Operational
14	Bhubaneswar-II	75	Operational
15	Kashinagar	10	Operational
16	Paralakhemundi	20	Operational
17	Aska	10	Operational
18	Sorada	10	Operational
19	Nilagiri	10	Operational
20	Sonepur	10	Operational
21	Bhadrak	30	Operational
22	Paradeep	20	Operational
23	Banki	10	Operational
24	Jharsuguda	40	Operational
25	Barbil	20	Operational
26	Joda	20	Operational
27	Deogarh	10	Operational
28	Kesinga	10	Operational
29	Balangir	30	Operational
30	Kuchinda	10	Operational
31	Rayagada	30	Operational
32	Odogaon	10	Operational
33	Khariar	10	Operational
34	Belapahar	10	Operational
35	Patanagarh	10	Operational
36	Talcher	20	Operational
37	Sundargarh	20	Operational
38	Hinjilcut	10	Operational

Status of Operational SeTP

Sl. No.	Name of the ULBs	Capacity of SeTP (In KLD)	Remarks
39	Kamakhyanagar	10	Operational
40	Dasapalla	10	Operational
41	Khandapada	10	Operational
42	Malakanagiri	20	Operational
43	Brajaraj Nagar	30	Operational
44	Karanjia	10	Operational
45	Gunupur	10	Operational
46	G.Udayagiri	10	Operational
47	Purusotampur	10	Operational
48	Rairangpur	10	Operational
49	Baliguda	10	Operational
50	Bhawanipatna	20	Operational
51	Khariar Road	10	Operational
52	Bargarh	30	Operational
53	Patamundai	10	Operational
54	Jeypore	40	Operational
55	Tarabha	10	Operational
56	Phulbani	20	Operational
57	Nimapada	10	Operational
58	Nawarangpur	20	Operational
59	Bijepur	10	Operational
60	Binika	10	Operational
61	Junagarh	10	Operational
62	Kotapad	10	Operational
63	Jagatsinghpur	20	Operational
64	Hindol	10	Operational
65	Biramitrapur	10	Operational
66	Athagarh	10	Operational
67	Gudari	10	Operational
68	Vyasanagar	30	Operational
69	Sore	10	Operational
70	Digpahandi	10	Operational
71	Rajgangpur	20	Operational
72	Khalikote	10	Operational
73	Nayagarh	10	Operational
74	Bhanjanagar	10	Operational
75	Chhatrapur	10	Operational
76	Anandpur	10	Operational
77	Barpali	10	Operational
78	Athamallik	10	Operational

Status of Operational SeTP

Sl. No.	Name of the ULBs	Capacity of SeTP (In KLD)	Remarks
79	Rerakhol	10	Operational
80	Tusura	10	Operational
81	Padampur	10	Operational
82	Nuapada	10	Operational
83	Titilagarh	10	Operational
84	Rambha	10	Operational
85	Ganjam	10	Operational
86	Kantabanjhi	10	Operational
87	Sunabeda	20	Operational
88	Balimela	10	Operational
89	Champua	10	Operational
90	Boudhgarh	10	Operational
91	Gopalpur	10	Operational
92	Atabira	10	Operational
93	Chikiti	10	Operational
94	Basudevpur	10	Operational
95	Ranpur	10	Operational
96	Kendrapara	20	Operational
97	Dhamnagar	10	Operational
98	Buguda	10	Operational
99	Konark	10	Operational
100	Kabisuryanagar	10	Operational
101	Kodala	10	Operational
102	Keonjhar	30	Operational
103	Pipili	10	Operational
104	Umerkote	10	Operational
105	Polasara	10	Operational
106	Chandabali	10	Operational
107	Udala	10	Operational
108	Jaleswar	10	Operational
109	Berhampur-II	60	Operational
110	Bhuban	10	Operational
111	Banapur	10	Operational
112	Bellaguntha	10	Operational
113	Balugaon	10	Operational
	Total	1947	Operational

Status of Operational SeTP

INFORMATION ON STATUS OF STPs (OPERATIONAL & UNDER CONSTRUCTION)

As on September 2023

Sl.	City/ Town	No. of STP	Location of each STP	Coordinates of STP (Latitude & Longitude)	STP Commissioned in (Year)/ To be commissioned	Status (Operational/ Non-operational/ Under Construction)	STP Installed Capacity (in MLD)	Technology (UASB/ ASP/OP/ SBR/MBR/ FAB Etc)
1	2	3	4	5	6	7	8	9
1	Bhubaneswar	1	Rokat	<u>20.33°</u> 85.84°	Commissioned on 31.12.2022	Not available with OWSSB	48	ASP
		1	Meherpalli	<u>20.26°</u> 85.86°	Partly commissioned during Dec.-2020		56	SBR
		1	Basuaghai	<u>20.233°</u> 85.85°	Partly commissioned during Dec.-2020		28	SBR
		1	Kochilaput	<u>20.21°</u> 85.80°	Partly commissioned during Dec.-2020		43.5	SBR
		1	Paikarapur	<u>20.26°</u> 85.75°	Partly commissioned during Dec.-2020		8	SBR
2	Cuttack	1	Matgajpur	<u>20.43°</u> 85.93°	Commissioned since 01.03.2022		16	ASP
		1	CDA	<u>20.46°</u> 85.85°	Dec.-2018		36	ASP
		1	Matgajpur	<u>20.43°</u> 85.93°	June-2006		33	Waste Stabilization Pond
3	Puri	1	Mangalaghat	<u>19.81°</u> 85.79°	June-2013		15	Aerated Lagoon
		1	Bankimuhan	<u>19.79°</u> 85.83°	Feb.,1995		10	Waste Stabilization Pond
4	Sambalpur	1	Dhanupalli	<u>21.43°</u> 83.98°	Commissioned		40	SBR
5	Rourkela	1	Balughat	<u>22.21°</u> 84.80°	Partly commissioned during Feb.-2021		40	SBR
6	Talcher	1	Mandapal	<u>20.95°</u> 85.24°	Feb.-2018		2	Waste Stabilization Pond
Total capacity		13					375.50	

(As on September 2023)

Sl. No.	Issue	Remarks
1	a	Quantity of Sewage generated in the State (In MLD)
2	a	Quantity of Sewage treated in the State(In MLD)
3	a	Existing Coverage of Sewerage network (In km)
4	a	Has Sewage generation (town/ City wise) been estimated for present and future population? Please provide details of the same
5	a	Has adequate treatment capacity been developed for treatment of sewage?
	b	If not, then what is present percentage of sewage being treated?
	c	If not, please provide the timeframe by which all sewage generated in the State shall be treated
6	a	Please provide details of STPs (town / city wise) along with details on compliance status and treatment capacity
7	a	Is entire sewage generated from each town being linked with sewerage network in the state?
	b	If not, then what is the present current percentage of sewage being collected through the existing sewerage network?
	c	If not, then please provide the timeframe by which all sewage generated in the State shall be collected through sewerage network
8	a	Have all drains carrying waste water in each town/ city been identified
	b	Provide details on the pollution load due to these drains
	c	Has in-situ treatment of wastewater being carried out in all such drains for reduction of pollution load?
	d	If not, then please indicate the number of drains in which in-situ treatment of wastewater has commenced.
	e	If not, then please provide the timeframe within which in -situ treatment of wastewater shall be carried out in all such drains for reduction of pollution load.
9	a	Have all bulk users for reuse of wastewater been identified?
	b	Is all treated wastewater from the STPs being reused for different purposes?
	c	If not, then what is current percentage of wastewater being reused?
	d	If not, then please provide the timeframe within which all treated wastewater from STP shall be reused for different purposes.

694 27/7/2020


Orissa Water Supply & Sewerage Board
 (A Govt. of Odisha Undertaking)
 Satyanagar, Bhubaneswar-751007 Phone: (0674)2570086/2571185
 Email msowssb@gmail.com / ceowssb@gmail.com Fax:2571348

No. 3297 /OWSSB Date 22-07-2020
 W-18/2015 (2)

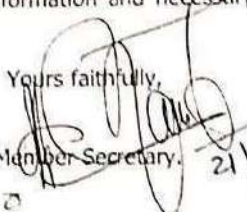
To The Member Secretary,
 State Pollution Control Board,
 Odisha, Bhubaneswar.

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

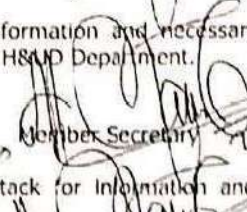
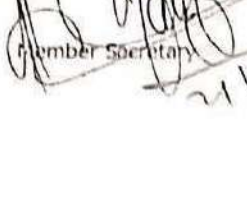
Encl: As above.

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.

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.

Memo No. 3300 /OWSSB Date 23-07-2020
 Copy forwarded the Project Director, PMC, OWSSB, Cuttack for information and necessary action.


 Member Secretary. 21/7/20

 Member Secretary. 21/7/20

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 September, 2023)

No.	Location	Existing STP Capacity	Capacity Being Utilized	Operational Status of STP	Compliance Status of STP
Cuttack					
1	CDA-Bidanasi area	36 MLD	26.75MLD	O & M by OISIP, JICA, Cuttack	Sewer network: October,2023. House Sewer connection-May, 2024
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	5.67 MLD	House sewer connection is under progress.	Sewer network: October,2023. House Sewer connection-May, 2024
	Total	85 MLD	32.42 MLD	-	-

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 Sept) are as follows.

Year	Annual average and Range of values for various Parameters							
	pH	BOD, mg/L	COD, mg/L	TSS, mg/L	NH ₃ -N, mg/L	PO ₄ ³⁻ -P (total), mg/L	TC	FC
							MPN/100ml	
2022 (January-December)	7.1 (6.6-7.4)	3.7 (1.5-7.9)	19.2 (12.0-34.0)	13.9 (10.0-41.0)	3.41 (0.56-9.52)	0.867 (0.173-2.11)	26709.6 (<1.8-160000)	13389.9 (<1.8-160000)
During 2023								
January, 2023	6.9	4.0	16.0	12.0	1.68	0.126	61	40
February, 2023	7.1	3.9	15.0	11	5.04	0.425	49	17
March, 2023	7.3	3.3	37.0	<10.0	2.24	0.479	<1.8	<1.8
April, 2023	7.3	2.5	20.0	11.0	5.6	0.326	84	14
May, 2023	7.2	4.3	25.0	<10.0	8.96	0.532	5	2
June, 2023	7.3	3.5	24.0	<10.0	8.40	0.650	1700	920
July, 2023	7.4	4.3	32.0	11.0	3.92	0.829	>160000	24000
August, 2023	7.1	4.2	22	11	1.68	0.342	33	13
Sept, 2023	7.5	2.9	20.0	<10.0	2.24	0.613	<1.8	<1.8
Overall status: Conforming to discharge limit								
Effluent Discharge limit for STP *	6.5-9.0	30	-	< 100	-	-	-	< 1000

* G.S.R. 1265 (E) Dt. 13.10.2017

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 (March- December) and 2023 (till Sept) are as follows:

Year	Annual average data of various Parameters							
	pH	BOD, mg/L	COD, mg/L	TSS, mg/L	NH ₃ -N, mg/L	PO ₄ ³⁻ - P (total), mg/L	TC	FC
							MPN/100ml	
2022 (March- December)	7.22 (6.9-7.5)	4.02 (3.5-4.9)	15.57 (12.0-22.0)	10.67 (10.0-13.0)	2.15 (0.56- 4.48)	0.25 (0.11- 0.462)	933 (<1.8- 4900)	195 (<1.8- 680)
During 2023								
January, 2023	7.5	4.3	16.0	<10.0	3.36	0.105	40	40
February, 2023	7.1	1.9	15.0	11.0	5.04	0.425	49	17
March, 2023	7.3	2.9	25.0	<10.0	1.68	0.227	<1.8	<1.8
April, 2023	7.2	2.9	20.0	13.0	2.8	0.476	210	120
May, 2023	7.3	7.5	46.0	14.0	3.92	0.321	<1.8	<1.8
June, 2023	7.6	3.7	31.0	<10.0	5.04	0.396	<1.8	<1.8
July, 2023	7.6	5.5	40.0	20.0	3.36	0.402	79	13
August, 2023	7.7	3.6	14.0	11.0	3.36	0.29	<1.8	<1.8
Sept, 2023	7.8	3.3	20.0	<10.0	7.28	0.164	430	170
Overall status: Conforming to discharge limit								
Effluent Discharge limit for STP *	6.5-9.0	30	-	< 100	-	-	-	< 1000

* G.S.R. 1265 (E) Dt. 13.10.2017

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

Characteristic of Drains falling on Kathajodi river (September, 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	7.6	10.0	54.0	12.0	7900	2200
2	Wastewater discharge to Kathajodi river at CDA-Bidanasi area	7.6	3.3	24.0	13.0	2400	790
3	Wastewater discharge to Kathajodi river at Khannagar	7.4	78.0	160.0	50.0	>160000	>160000

The quality of Wastewater discharged through Khan nagar sluice gate to Kathajodi river during 2022 (Annual Average and range) and 2023 (till September) are as follows-

Year	Annual average data of various Parameters					
	pH	BOD, mg/L	COD, mg/L	TSS, mg/L	TC	FC
					MPN/100ml	
2022 (Jan-Dec)	7.04 (6.0-7.3)	73.06 (48-105)	176.37 (136-236)	90 (35-144)	>160000	>160000
During 2023						
Year	pH	BOD, mg/L	COD, mg/L	TSS, mg/L	TC MPN/100ml	FC MPN/100ml
January, 2023	7.2	78.0	152.0	80.0	>160000	>160000
February, 2023	7.1	63.0	140.0	203.0	>160000	>160000
March, 2023	7.2	63.0	131.0	144.0	>160000	>160000
April, 2023	7.2	70.0	153.0	173.0	>160000	>160000
May, 2023	7.1	58.0	140.0	168.0	>160000	>160000
June, 2023	7.9	43.0	143.0	196.0	>160000	>160000
July, 2023	7.8	68.0	139.0	36.0	>160000	>160000
August, 2023	7.2	48.0	105.0	64.0	>160000	>160000
September, 2023	7.4	78.0	160.0	50.0	>160000	>160000
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 May, 2024.

Similarly, after completion of all household 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 October, 2023.

Besides these, a Septage Treatment Plant of 33 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 September, 2023 is given in following page. BOD in both Kathajodi river and Serua river along Cuttack remain above 3.0 mg/L under the priority category V.

Polluted River stretch: September, 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))
5. Kathajodi River (Cuttack to Urali) (Priority-III)	Cuttack D/s	8.2	7.2	2.9	>160000	92000	240	NC
	Cuttack FD/s at Mattagajpur	8.3	7.6	2.3	13000	3300	130	NC
6. Serua River (Khandaeta to Sankhatrasa) (Priority-V)	Cuttack FD/s at Sankhatrasa	8.3	8.0	2.8	>160000	>160000	220	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) 2500 (permissible)	100 (Desirable) 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
Total		249	127

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, Himagiri 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 (Keonjhar and Sundergarh)	Iron & Manganese	128	164	90%
2.	Talcher (Angul)	Coal	15	32	47%
3.	Ib Valley (Jharsuguda)	Coal	10		31%
4.	Himagiri block (Sundargarh)	Coal	05		16%
5.	Sukinda (Jajpur)	Chromite		21	81%

6.	Sundargarh (Sundargarh)	Limestone & Dolomite	22	25	88%
7.	Raygada- Koraput (Raygada and, Koraput)	Bauxite	05	07	71%
Total			202	249	81%

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	• Garland drain and provision of settling pond/ mine sump for surface runoff management • Effluent Treatment Plant for mine drainage water • Sewage Treatment Plant for domestic effluent • Oil and Grease Trap for treatment of workshop effluent • Concurrent back filling of mined out voids using internal burden and followed by biological reclamation	• Deployment of surface miner with inbuilt dust suppression system replacing Blasting and Dumper –Shovel combination method of mining. • Wet drilling and controlled blasting of over burden (OB) to minimize dust generation. • Water sprinkling system at various dust generating sources to control fugitive dust emission. • Black topping and proper maintenance of permanent coal transportation roads to reduce fugitive dust generation. • Avoiding creation of ruts and potholes on haul roads of mine to minimize generation of fugitive dust • Plantation

2.	Iron & Manganese	• Toe wall, garland drain and sedimentation basin for runoff management • check dam and check weirs at strategic location of the mine for runoff management • Stabilization of OB by covering it with geotextile/coir matting and plantation • Sewage Treatment Plant for domestic effluent in large mines having colony/Discharge of domestic effluent to soak pit via septic tank. • Oil and Grease separation system for treatment of workshop effluent	• Wet drilling and controlled blasting to minimize dust generation • Water sprinkling on haul roads and dry-fog system in mineral handling plants for control of fugitive dust • Proper maintenance of haul roads to prevent generation of dust • Disposal of tailings generated from ore beneficiation plant into tailing pond and recirculation of overflow water/discharge after settling of tailings • Plantation
3.	Chromite	• Effluent Treatment Plant for treatment of mine drainage water and surface runoff water • Toe wall and garland drain • Stabilization of OB by coir matting and plantation • Sewage Treatment plant for domestic effluent/or discharge into soak pit via septic tank	• Wet drilling and controlled blasting to minimize dust generation • Water sprinkling on haul roads to minimize dust generation • Plantation
4.	Limestone and Dolomite	• Toe wall and garland drain • Settling pond	• Wet drilling and controlled blasting to reduce dust generation • Water sprinkling on haul roads to prevent dust generation • plantation
5.	Bauxite	• Check dam for surface runoff management • Effluent Treatment Plant for workshop and canteen effluent • Back filling of mined out area using overburden	• Deployment of ripper dozer to minimize dust generation • Water sprinkling on haul roads to control dust emission • Plantation

Annexure-14



National Mission for Clean Ganga
An Authority (Under EPA vide notification dated: 07 October 2016)
Ministry of Jal Shakti
Department of Water Resources, River Development & Ganga Rejuvenation
Government of India



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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)

Invalid Date

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