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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

Ind. VI-2824 (Pt. VII)/20-21

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Dt. 23.06.2021

No. - 8054

To

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

**Sub: Submission of Monthly Progress Report for May- 2021 related to Control of River Pollution – Reg.**

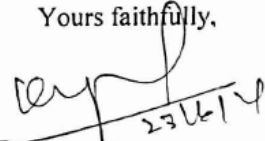
**Ref: Email dtd. 08.10.2020**

Sir,

In inviting reference to above subject, the Monthly Progress Report for the month of May, 2021 in the matter of O.A. 673 of 2018 is enclosed herewith for your kind information and necessary action

Yours faithfully,

Encl : As above

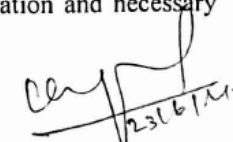
  
23/6/21  
Member Secretary

**Memo No. 8055**

**Dt. 23.06.2021**

Copy forwarded to Dr. J. C. Babu, Addl. Director, WQM-I Division, Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, Delhi – 110 032 for kind information and necessary action.

Encl : As above

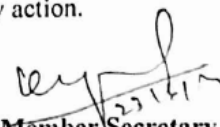
  
23/6/21  
Member Secretary

**Memo No. 8056**

**Dt. 23.06.2021**

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

  
23/6/21  
Member Secretary

**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 May, 2021**

**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 :	298.55 MLD
	(Only from Puri, Bhubaneswar, Cuttack, Sambalpur, Rourkela and Talcher)

**III Details of Sewage Treatment Plant:**

• Existing no. of STPs and Treatment Capacity (in MLD): 10 Nos : 266.50 MLD

• Capacity Utilization of existing STPs: 88.60 MLD

• MLD of sewage being treated through Alternate technology: 1027 (1.027 MLD)

(At present 1017 KLD (1.017 MLD) septage is being treated through Septage Treatment Plants in 46 nos. of SeTPs in ULBs of the State.

• Gap in Treatment Capacity in MLD: 104 MLD

• No. of Operational STPs: 10 STPs

• No. of Complying STPs: 10 STPs

• No. of Non-complying STPs: 0 STPs

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

No.	Location	Existing STP Capacity	Capacity Being Utilized	Operational Status of STP	Compliance Status of STP
	<b>Cuttack</b>				
1	CDA-Bidanasi area	36 MLD	18.60 MLD	O & M by OISIP, JICA, Cuttack	Running Smoothly
2	Mattagajpur	33 MLD	33 MLD	O & M by PHEO	Running Smoothly
	<b>Puri</b>				
3	Mangalaghat	15 MLD	11 MLD	O & M by PHEO	Complying
4	Bankimuhan	5 MLD	5 MLD		

No.	Location	Existing STP Capacity	Capacity Being Utilized	Operational Status of STP	Compliance Status of STP
	<b>Talcher</b>				
5	Mandapal	2 MLD	2 MLD	O & M by PHEO	Running Smoothly
	<b>Bhubaneswar</b>				
6	Meherpalli	56 MLD	6 MLD	O & M by WATCO	Operational since December, 2020
7	Basuaghai	28 MLD	5 MLD		
8	Kochilaput	43.5 MLD	4 MLD		
9	Paikarapur	8 MLD	4 MLD		
	<b>Rourkela</b>				
10	Ruptala Balughat	40 MLD	-	Commissioned since Dec. 2020	-
<b>Total : 10 STPs</b>		<b>266.50 MLD</b>	<b>88.60 MLD</b>		

**Details of under construction STPs in the State**

No	Location	Capacity of the plant in MLD	Physical Progress in %	Status of I&D or House sewer connections	Completion Timeline
1	Dhanupalli, Sambalpur	40 MLD	93 %	0% (0/80,582 Nos.)	March, 2022
2	Mattagajpur, Cuttack	16 MLD	81.88 % completed	-	June, 2021
3	CDA-Bidanasi area, Cuttack	36 MLD	Operating	37.73 % (16414/ 43500 Nos.)	June, 2021
3	Meherpalli, Bhubaneswar	56 MLD	Commissi oned	29.17% (17967/61,584 Nos)	December, 2021
4	Basuaghai, Bhubaneswar	28 MLD		43.84% (13500/ 30,792 Nos)	
5	Kochilaput, Bhubaneswar	43.5 MLD		17.76% (8500/47837 Nos)	
6	Paikarapur, Bhubaneswar	8 MLD		31.6% (2786/ 8797 Nos)	
7	Rokat, Bhubaneswar	48 MLD	69.11% completed	0 % ((0/52756 Nos.)	June, 2021
8	Ruptala Balughat, Rourkela	40 MLD	Commissi oned	0.23 % (158/ 66029)	June, 2021

### 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	
<p>Since laying of sewer networks involve huge capital and O &amp; M costs and public inconvenience, steps are being taken to cover all the cities and towns in the State by setting up Septage Treatment Plants to manage the faecal wastewater to reduce environmental pollution. In this process all 114 ULBs of Odisha will be covered.</p>				

(Information received from Orissa Water Supply and Sewerage Board has been attached as Annexure-1)

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

- Total Number of Industries : 7306
- No. of water polluting industries in the State: 1234
- Quantity of effluent generated from the industries in MLD: 803.46 MLD  
(For treatment)
- Quantity of Hazardous Sludge generated from the Industries in TPD : 141.9 TPD
- Number of industrial units having ETPs: 1205
- 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 : 1205 Numbers, 1025.164 MLD  
Under Construction : Nil  
Proposed : Nil  
**Total : 1205 Numbers, 1025.164 MLD**
- Compliance status of the ETPs:
  - As per the frequency of inspection norms vide Office Order 1081 dated 31.01.2020, ETPs of 33 numbers of Industries have been inspected for compliance status during May, 2021. Out of these, 28 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 28 number of units for operating without ETPs. During May, 2021, Show Cause Notice has been Issued to 2 number of Industries for non-compliance of ETPs. Closure direction have been issued to 2 number of Industries for non-compliance of ETPs. Action will be taken against One number of units for not having ETP.
- 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: 114 Urban Local Bodies
  - Total number of Urban Local Bodies:114
  - Population: 60,35,851(as per 2011 census)
- Current Municipal Solid Waste Generation : 1772 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), biomethanation, MRF etc
- Existing MSW Processing Facilities :

Type of Processing Facility	Numbers	Installed Capacity (in TPD)	Utilization
Compost Plant- Micro Composting Centre (MCC)	180	853	72 %
Materials Recovery Facility (MRF)	163	1646	31 %

- Action plan to bridge gap between Installed Capacity and Current Utilization of processing facilities (if Gap > 20%)
  - ✓ Waste generation has come down because of the pandemic COVID-19 due to which quantity of waste reaching the decentralized compost plants has come down. This resulted in reduced utilization of compost plant. As the spread of pandemic comes down, the waste generation will increase, resulting increase in plant utilization.
  - ✓ Compost plants and Material Recovery Facilities are designed for a higher capacity considering population forecast and optimal utilization of resources. Therefore, presently the compost plants will 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
2035	2035 (100%)	2017 (99%)

- Details of MSW treatment facilities proposed and under construction (no., capacity, and technology)
  - **MSW processing facilities Proposed:**
    - Composting Facility - Micro Composting Centre (MCC) : 242 Nos. (Capacity : 1,210 TPD)
    - Material Recovery Facilities (MRF): 153 Nos. (Capacity:1530 TPD)
  - MSW processing facilities Functional :
    - Composting Facility- Number of Functional Micro Composting Centre (MCC) : 180 Nos.(Capacity : 853 TPD)
    - Number of Functional Material Recovery Facilities (MRF) : 160 Nos.. (Capacity:1646 TPD)
  - MSW processing facilities Under Construction:
    - Composting Facility - Micro Composting Centres (MCC): 60 Nos. (Capacity : 272 TPD)
    - Material Recovery Facilities (MRF): 17 Nos. (Capacity: 170 TPD)
- No. and area (in acres) of uncontrolled garbage dumpsites and Sanitary Landfills.
  - Garbage dumpsites: 9 numbers (170 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-2					

(Information received from Housing and Urban Development Department , Govt. of Odisha has been attached as Annexure-2)

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

- Total Bio-medical generation: 17993.14 Kg/Day (As per Annual Report, 2019 sent to CPCB)
- No. of Hospitals and Health Care Facilities: 3600  
During December,
- 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

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

- Total Hazardous Waste generation: 6,79,849 T Tonne/Annum  
(Monthwise data is not available. Monthwise generation of Hazardous waste are not submitted by the hazardous waste generator. However, as per the hazardous and other waste (Management and Transboundary Movement) Rules, 2016, All the occupiers of hazardous units are required to submit annual return by 13<sup>th</sup> June, for the preceeding financial year.)
- No. of Industries generating Hazardous waste : 382 (Upto February, 2021)
- Treatment Capacity of all TSDFs :
  - (a) SLF Capacity : 75,000 Tonne/Annum
  - (b) Treatment Capacity : 12,000 Tonne/ Annum
- Avg. Quantity of Hazardous waste reaching the TSDFs and Treated : 4733 Tonne During February, 2021.

- 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. Treatment Capacity of the TSDF is as follows :

- (a) SLF Capacity : 75,000 Tonne/Annum
- (b) Treatment Capacity : 12,000 Tonne/ Annum

On an average, 60,000 TPA of Hazardous waste is being treated in the TSDF.

Two more TSDFs are in proposal stage.

- (i) M/s Western Integrated Waste management Facility Pvt. Ltd., Dist- Deogarh (Obtained Term of Reference Only)
- (ii) M/s Ramky Enviro of Common Hazardous Waste Treatment, Storage and Disposal Facility (CHWTSDf) at Tehsil- Lakhanpur, Dist- Jharsuguda (Obtained Term of Reference Only)

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

- Total Plastic Waste generation: 106 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.

#### **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 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 1017 KLD (1.017 MLD) septage is being treated through Septage Treatment Plants in 45 ULBs of 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, two meetings were held under the chairmanship of the Chief Secretary, Odisha on Dt. 13.11.2020 and 19.02.2021

(Information received from Forest and Environment Department , Govt. of Odisha has been attached as Annexure-3)



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

Enclosed as Annexure-4.

Status of Polluted River stretches in the State of Odisha during the period 2017-2021 with maximum BOD values during the year (Upto March, 2021) is given as Annexure-5 (a) and Summary of number of polluted river stretches under different category during the period 2017-2021 (upto March, 2021) is given as Annexure-5 (b).

Latest water quality of all river water quality stations being monitored by the Board is given as Annexure-5 (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)

<u>Govt.</u>		<u>Private</u>
2018-19	358 Nos.	9438 Nos. (in 11 towns of 9 districts)
2019-20	Nil	Nil
2020-21	300 Nos	6000 Nos.

(Note : A provision of Rs. 37 crores which was kept for construction of RRHS during the Financial year 2020-21 has been withdrawn due to non-approval by EFC and physical acheivement during the current FY is NIL).

**XVII. Ground Water Recharge**

(i)	Through Wells (Recharge shaft on tanks and ponds)	2019-20	179 Nos. (completed)
		2020-21	65 nos. taken up in 11 districts, out of which 65 Nos. have been completed.
		2021-22	100 nos. taken up in 11 districts. Progress during the month of April is Nil.
(ii)	Through Check Dams	Upto 03/2020	15604 Nos. in 30 districts (Completed since inception of the scheme in 2010-11)
		Upto 03/2021	15833 Nos. in 30 districts (Completed since inception of the scheme in 2010-11). A provision of Rs. 67 Crores has been kept for construction of check dams in 30 districts during the financial year 2020-21.
		Upto 04/2021	15837 Nos. in 30 districts (Completed since inception of the scheme in 2010-11).

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

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

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

**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. 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).

In 2020-21, green belts will be created on the identified vacant areas/ flood plains on the bank of the river stretches with the help of the Forest and Environmnet Department.

**XX. Development of biodiversity park:**

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

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

In 2020-21, green belts will be created on the identified vacant areas/ flood plains on the banks of river stretches with the help of F & E Department.

(Information received for Item No. X to XVI from Dept. of Water Resources, Govt. of Odisha has been attached as Annexure-6 and Annexure-7)

#### **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 has been attached as Annexure-8)

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

As per 2020 river water quality status as given in Annexure-6 (b), number of priority-wise polluted river stretches is :

Priority-I: Nil,

Priority-II: Nil,

Priority-III: One,

Priority-IV: Two,

Priority-V: Four;

12 stretches are under Clean Category conforming to bathing water quality. Actions are being taken as given in the foregoing sections to meet the bathing water quality with respect to BOD.

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”. Action taken by Odisha Government for restoration of the polluted river stretch of river Kathajodi is enclosed as Annexure-10.

(Information received from Orissa Water Supply and Sewerage Board has been attached as Annexure-9)

#### **XXIII. Status of Preparation of Action Plan by the 13 Coastal States: Forest and Environment Department , Govt of Odisha has submitted the action plans for coastal stretch along Puri, Gopalpur and Paradeep and of Atharabanki Creek in the State of Odisha.**

(Information received from Forest and Environment Department has been attached as Annexure-10)

**XIV.** Regulation of Mining Activities in the State/UT: Enclosed as Annexure-11.

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

Closure direction has been issued to 29 number of units for operating without ETPs. During March, 2021, Show Cause Notice have been Issued to 12 number of Industries for non-compliance of ETPs.

In compliance to the Grievance redressal portal in the on-going NGT 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. Extract of the Grievance report for the period 01.03.2021 to 31.03.2021 downloaded from the portal is given as Annexure-12.

**National Mission for Clean Ganga**  
**Format for submission of Monthly Progress Report for the month of**  
**May, 2021 in the NGT Matter OA No. 673 of 2018 (in compliance to NGT**  
**order dated 06.12.2019)**

**For the State of Odisha**

**Overall status of the State:**

**II. Total Population : Urban Population :- 58,82,608 (As per census 2011)**

Rural Population separately : N.A.

**II. Estimated Sewage Generation (MLD): 298.55**

i.	Bhubaneswar	114.97
ii	Cuttack	79.08
iii	Sambalpur	43.51
iv	Rourkela	35.65
v.	Puri	20.05
vi	Talcher	5.29
	<b>Total</b>	<b>298.55</b>

**III. Details of Sewage Treatment Plant**

(b) Existing No. of STPs and Treatment Capacity (in MLD): 10 (266.50)

(n) Capacity Utilization of Existing STPs: 88.60 MLD

(o) MLD of Sewage being treated through alternative technology: At present 1027 KLD  
 (1.027 MLD) septage is being treated through 46 nos. SeTPs.

(p) Gap in Treatment Capacity in MLD: 104 (370.50 – 266.50)

(q) No. of Operational STPs: 10

(r) No. of Complying STPs: 10

(s) No. of non-complying STPs: 3 (13 – 10)

**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	6	O&M by WATCO	Operational since Dec.2020
	1	Basuaghai	28	5		-do-
	1	Kochilaput	43.50	4		-do-
	1	Paikrapur	8	4		-do-

2		Cuttack				
	1	Matgajpur	33	33	O&M by WATCO	Running smoothly
	1	CDA	36	18.60	O&M by OISIP, JICA, Cuttack	-do-
3		Puri				
	1	Mangalaghat	15	11	O&M by WATCO	-do-
	1	Bankimuhan,	5	5		
4	1	Talcher, Mandapal	2	2	O&M by PHEO	-do-
5	1	Rourkela	40	-	Commissioned since Dec.2020	-do-
Total	10		266.50	88.60		

**Details of 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	69.11	0% (0/52756 Nos)	June 2021
		Meherpalli	56	Commissioned	29.17% (17967/61,584 Nos)	December 2021
		Basuaghai	28		43.84% (13500/30,792 Nos)	
		Kochilaput	43.5		17.76% (8500/47837 Nos)	
		Paikarapur	8		31.6% (2786/8797 nos)	
2		Cuttack				
	1	Matgajpur	16	81.88	-	June-2021
	1	CDA	36	Commissioned	37.73 % (16414 / 43500 nos.)	June-2021
3	1	Sambalpur	40	93	0% (0/80,582 Nos)	March,2022
4	1	Rourkela	40	Commissioned	0.23% (158/66029 nos.)	Sept.,2021

**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				
<p>Since laying of sewer networks involve huge capital and O&amp;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 114 ULBs of Odisha will be covered.</p>				

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

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

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 relates to OWSSB**

- Total number of Urban Local Bodies and their Population : Nil
- Current Municipal Solid Waste Generation : Nil
- 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. : Nil
- Action plan to bridge gap between Installed Capacity and Current Utilization of processing facilities (if Gap > 20%). : Nil
- No. and capacity of C&D waste processing plants in TPD (existing, proposed and under construction) : Nil
- Total no. of wards, no. of wards having door to door collection service, no. of wards practicing segregation at source : Nil
- Details of MSW treatment facilities proposed and under construction (no., capacity, and technology) : Nil

- No. and area (in acres) of uncontrolled garbage dumpsites and Sanitary Landfills. : 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 : Nil

**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
			Nil		

**III. Bio-medical Waste Management: Not relates to OWSSB**

- Total Bio-medical generation: Nil
- No. of Hospitals and Health Care Facilities: Nil
- Status of Treatment Facility/ CBMWTF: Nil

**IV. Hazardous Waste Management: Not relates to OWSB**

- Total Hazardous Waste generation: Nil
- No. of Industries generating Hazardous waste : Nil
- Treatment Capacity of all TSDFs : Nil
- Avg. Quantity of Hazardous waste reaching the TSDFs and Treated : Nil
- Details of on-going or proposed TSDF : Nil

**V. Plastic Waste Management: Not relates to OWSB**

- Total Plastic Waste generation: Nil
- Treatment/ Measures adopted for reduction or management of plastic waste: Nil

VI. Details of Alternate Treatment Technology being adopted by the State/UT : Nil

VII. Identification of polluting sources including drains contributing to river pollution and action as per NGT order on insitu treatment: Nil

VIII. Details of Nodal Officer appointed by Chief Secretary in the State/UT: Nil



- IX. Details of meetings carried under the Chairmanship Chief of Secretary in the State/UT: Nil
- X. Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river; Nil
- XI. Ground water regulation: Nil
- XII. Good irrigation practices being adopted by the State: Nil
- XIII. Rain Water Harvesting: Nil
- XIV. Demarcation of Floodplain and removal of illegal encroachments: Nil
- XV. Maintaining minimum e-flow of river: Nil
- XVI. Plantation activities along the rivers: Nil
- XVII. Development of biodiversity park: Nil
- XVIII. Reuse of Treated Water: Nil
- XIX. Model River being adopted by the State & Action Proposed for achieving the bathing quality standards: Nil
- XX. Status of Preparation of Action Plan by the 13 Coastal States: Nil
- XXI. Regulation of Mining Activities in the State/UT: Nil
- XXII. Action against identified polluters, law violators and officers responsible for failure for vigorous monitoring : Nil

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Government of Odisha

Housing & Urban Development Department

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

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File No.: HUD-SANT-CASEOP-0003-2020 Letter No.: <sup>10307</sup> /HUD. Date: 04.06.2021

From

Ashok Kumar Sarangi,  
Joint Secretary to Government &  
Joint Mission Director, SBM (Urban)

To

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

Sub: Submission of Monthly Progress Report for May, 2021 in prescribed format in compliance with 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 Monthly Progress Report [MPR] for the month of May, 2021 in the revised format for onward transmission to the Central Pollution Control Board (CPCB), New Delhi and Secretary, Ministry of Jal Shakti in compliance with Order Dated 06.12.2019 of the Hon'ble NGT passed in O.A. No. 673/2018.

Yours faithfully,

 04.06.21

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

Memo No. 10308 Date: 04.06.2021

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

Copy forwarded to Guard File ([sanitationhudedespatch@gmail.com](mailto:sanitationhudedespatch@gmail.com)).

*[Handwritten Signature]* 04.06.21

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

## MPR FOR THE MONTH OF MAY-2021

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

- Total number of Urban Local Bodies and their Population
- Total number of Urban Local Bodies:114
- Population: 60,35,851(as per 2011 census)
- Current Municipal Solid Waste Generation: 1,772 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)	180	853	72%
Materials Recovery Facility (MRF)	163	1,646	31%

- Action plan to bridge gap between Installed Capacity and Current Utilization of processing facilities (if Gap > 20%):
  - ✓ Waste generation has come down because of the pandemic COVID-19 due to which quantity of waste reaching the decentralized compost plants has come down. This resulted in reduced utilization of compost plant. As the spread of pandemic comes down, the waste generation will increase, resulting increase in plant utilization.
  - ✓ Compost plants and Material Recovery Facilities are designed for a higher capacity considering population forecast and optimal utilization of resources. Therefore, presently the processing facilities run at lesser capacity.
- No. and capacity of C&D waste processing plants in TPD (existing, proposed and under construction)
  - ✓ All 114 ULBs have designated sites for storage of Construction & Demolition waste. 126 numbers of such sites across all ULBs of Odisha have been notified for wider circulation amongst public. Further, the C&D waste is used for construction of road subgrade, temporary pathways, raising the low-lying areas, etc. thereby offsetting the use of soil for all these purposes.
- Total no. of wards, having door to door collection service, no. of wards practicing segregation at source

Total No. of Wards	No. of Wards Having Door-to-Door Collection Service	No. of Wards Practicing Source Segregation
2035	2035 (100%)	2017 (99%)

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

#### **MSW processing facilities Proposed:**

- ✓ Composting Facility - Micro Composting Center (MCC):242 Nos. (Capacity:1,210 TPD)
- ✓ Material Recovery Facilities (MRF): 153 Nos. (Capacity:1,530 TPD)

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

- ✓ Composting Facility - Number of Functional Micro Composting Center (MCC):180 Nos. (Capacity:853 TPD)
- ✓ Number of Functional Material Recovery Facilities (MRF):163 Nos. (Capacity: 1646 TPD)

**MSW processing facilities Under Construction:**

- ✓ Composting Facility - Micro Composting Centers (MCC):60 Nos. (Capacity:272 TPD)
- ✓ Material Recovery Facilities (MRF):17 Nos. (Capacity:170 TPD)
- No. and area (in acres) of uncontrolled garbage dumpsites and Sanitary Landfills.
  - ✓ Garbage dumpsites: 9 numbers (170 Acre approx.)
  - ✓ Sanitary Landfill: Nil
- No. and area (in acres) of legacy waste within 1 km buffer of both side of the rivers: Nil
- No. of drains falling into rivers and no. of drains having floating racks/screens installed to prevent solid waste from falling into the rivers:
  - ✓ No. of drains reaching to River System, lakes, Water Bodies, Pond, Marsh Land, Water Lands:225
  - ✓ Drains having floating racks/screens installed: 225

**Status of ULB wise Management of Solid Waste****VIII. Plastic Waste Management:**

- Total Plastic Waste generation:106 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		Proposed MSW Facilities		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)	7.4	6.45	7.4	6.45	10	20	74%	32%	0	0	
2	Angul (M)	8.21	5.5	8.21	5.5	12	30	68%	18%	0	0	
3	Asika (NAC)	3	2.3	3	2.3	10	10	30%	23%	0	10	31-08-2021
4	Athagad (NAC)	3	1.9	1	1.9	1	10	100%	19%	2	0	31-08-2021
5	Athmallik (NAC)	1.58	1.41	1.58	1.41	5	10	32%	14%	0	0	
6	Attapura NAC	2.95	2.56	2	2.56	2	10	100%	26%	2	0	31-08-2021
7	Balangir (M)	15.71	10.31	5	10	5	10	100%	100%	10	20	31-08-2021
8	Balasore (M)	18	17	10	17	10	40	100%	43%	10	0	31-08-2021
9	Balimela (NAC)	1.85	1.5	1.85	1.5	4	10	46%	15%	0	0	
10	Balliguda NAC	2.29	2.03	2	2.03	2	10	100%	20%	0	0	
11	Balugaon (NAC)	2.18	1.93	2.18	1.93	3	10	73%	19%	0	0	
12	Banki (NAC)	2	2	2	2	2	10	100%	20%	0	0	
13	Banpur (NAC)	2	1.89	2	1.89	3	10	67%	19%	3	0	31-08-2021
14	Barbil (M)	7.65	6.72	7.65	6.72	15	30	51%	22%	0	0	
15	Bargarh (M)	15.28	12	10	12	10	20	100%	60%	5	10	31-08-2021
16	Baripada (M)	20.87	15	20.87	15	25	40	83%	38%	0	20	31-08-2021
17	Barpali (NAC)	3.8	2.52	3.8	2.52	6	20	63%	13%	3	0	31-08-2021

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		Proposed MSW Facilities		Completion Timeline
		Wet Waste	Dry Waste	Wet Waste	Dry Waste	Wet Waste	Dry Waste	Wet Waste	Dry Waste	Wet Waste	Dry Waste	
18	Basudebpur (M)	6.27	5.46	3	5.46	3	10	100%	55%	6	0	31-08-2021
19	Bellaguntha (NAC)	1.97	1.5	1.97	1.5	5	5	39%	30%	0	0	
20	Belpahar (M)	4.57	4.02	4.57	4.02	5	10	91%	40%	0	0	
21	Berhmapur (MC)	68.27	59.71	68.27	59.71	83	67	82%	89%	0	0	
22	Bhadrak (M)	18	11	3	10	3	10	100%	100%	5	0	31-08-2021
23	Bhanjanagar NAC	2.9	2.21	2.9	2.21	4	10	73%	22%	0	0	
24	Bhawanipatna (M)	8	6.97	3	6.97	3	20	100%	35%	3	0	31-08-2021
25	Bhuban (NAC)	2.69	2.38	2.69	2.38	6	20	45%	12%	0	0	
26	Bhubaneswar (MC)	161.24	130	36	20	36	20	100%	100%	128	10	31-08-2021
27	Bijepur (NAC)	1.46	1.3	1.46	1.3	2	20	73%	7%	0	0	
28	Binika (NAC)	1.95	1.74	1.95	1.74	3	10	65%	17%	0	0	
29	Biramitrapur (M)	3.82	3.48	3.82	3.48	5	10	76%	35%	0	0	
30	Boudhgarh (NAC)	3	3	3	3	5	10	60%	30%	0	0	
31	Brajarajnar (M)	9.98	8.44	9.98	8.44	10	20	100%	42%	0	0	
32	Buguda (NAC)	2.7	1.5	2.7	1.5	5	10	54%	15%	0	0	
33	Byasanagar (M)	9.19	4.99	9.19	4.99	10	20	92%	25%	0	0	
34	Champua NAC	2	1.88	2	1.88	5	10	40%	19%	0	0	
35	Chandbali (NAC)	3.21	3.5	1	3.5	1	10	100%	35%	0	20	31-08-2021
36	Chhatrapur (NAC)	3.9	3.5	3.9	3.5	5	10	78%	35%	10	0	31-08-2021
37	Chikiti (NAC)	2.04	1.34	2.04	1.34	5	10	41%	13%	0	0	
38	Choudwar (M)	6	6	4	6	4	30	100%	20%	2	0	31-08-2021
39	Cuttack (MC)	86.5	86.5	31	10	31	10	100%	100%	30	20	31-08-2021
40	Daspalla NAC	2.27	2.01	2.27	2.01	5	10	45%	20%	0	0	
41	Deogarh (M)	3.4	3.56	3.4	3.56	5	10	68%	36%	0	0	
42	Dhamnagar (NAC)	2.77	2.5	2.77	2.5	4	10	69%	25%	0	0	
43	Dharmagarh NAC	2.06	2.59	2.06	2.59	3	10	69%	26%	0	0	
44	Dhenkanal (M)	12.74	9	12.74	9	13	30	98%	30%	0	0	
45	Digapahandi (NAC)	2.33	2.02	2.33	2.02	5	10	47%	20%	0	0	
46	G. Udayagiri (NAC)	1.97	1.7	1.97	1.7	3	10	66%	17%	0	0	
47	Ganjam (NAC)	1.6	1.35	1.6	1.35	5	10	32%	14%	0	0	
48	Gopalpur (NAC)	1.1	1	1.1	1	5	10	22%	10%	0	0	
49	Gudari (NAC)	1.2	0.76	1.2	0.76	2	10	60%	8%	0	0	
50	Gunupur (M)	4.44	3.86	4.44	3.86	10	10	44%	39%	0	0	
51	Hindol NAC	2.15	1.9	2	1.9	2	10	100%	19%	0	0	
52	Hinjilicut (M)	2.96	2.62	2.96	2.62	5	10	59%	26%	5	10	31-08-2021
53	Jagatsinghpur (M)	3.97	3.5	3.97	3.5	5	10	79%	35%	0	0	
54	Jajpur (M)	7	6	5	6	5	20	100%	30%	5	0	31-08-2021
55	Jaleshwar (M)	4.74	4	4.74	4	5	10	95%	40%	0	0	
56	Jatani (M)	6.46	5.68	5	5.68	5	10	100%	57%	5	0	31-08-2021
57	Jeypore (M)	15	8.51	10	8.51	10	10	100%	85%	0	0	
58	Jharsuguda (M)	14.65	14.17	10	14.17	10	20	100%	71%	5	0	31-08-2021
59	Joda (M)	8.5	5.2	8.5	5.2	10	20	85%	26%	0	0	
60	Junagarh (NAC)	2.5	2.5	2.5	2.5	5	10	50%	25%	0	0	
61	Kabisurjyanagar (NAC)	2.15	1.91	2.15	1.91	5	10	43%	19%	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		Proposed MSW Facilities		Completion Timeline
		Wet Waste	Dry Waste	Wet Waste	Dry Waste	Wet Waste	Dry Waste	Wet Waste	Dry Waste	Wet Waste	Dry Waste	
62	Kamakshyanagar (NAC)	3	2.62	3	2.62	3	10	100%	26%	0	0	
63	Kantabanji (NAC)	2.64	2.34	2.64	2.34	5	10	53%	23%	0	0	
64	Karanja (NAC)	3.4	2.6	3	0	3	0	100%	0%	0	3	31-08-2021
65	Kashinagar (NAC)	1.8	1	1.8	1	3	10	60%	10%	0	0	
66	Kendrapara (M)	8	7	5	7	5	10	100%	70%	0	0	
67	Keonjhar (M)	11.43	9.5	10	9.5	10	20	100%	48%	0	0	
68	Kesinga (NAC)	2.35	2.09	2.35	2.09	5	10	47%	21%	0	0	
69	Khalikote (NAC)	2.3	1.85	2.3	1.85	5	10	46%	19%	0	0	
70	Khandapada (NAC)	1.64	1.04	1.64	1.04	5	10	33%	10%	0	0	
71	Khariar (NAC)	2.5	1.5	2.5	1.5	3	10	83%	15%	0	0	
72	Khariar Road (NAC)	2.6	2	2.6	2	3	10	87%	20%	0	0	
73	Khordha (M)	5.37	7	5	0	5	0	100%	0%	5	10	31-08-2021
74	Kodala (NAC)	1.76	1.57	1.76	1.57	5	10	35%	16%	0	0	
75	Konark (NAC)	2.08	1.84	1	1.84	1	10	100%	18%	2	10	31-08-2021
76	Koraput (M)	5.52	5	5.52	5	10	20	55%	25%	0	0	
77	Kotpad (NAC)	2.03	1.8	2.03	1.8	10	20	20%	9%	0	0	
78	Kuchinda (NAC)	1.94	1.73	1.94	1.73	3	10	65%	17%	0	0	
79	Malkangiri (M)	3.67	4	3.67	4	8	10	46%	40%	0	0	
80	Nabarangapur (M)	4	4	4	4	4	4	100%	100%	0	0	
81	Nayagarh (M)	3.07	2.66	3.07	2.66	5	10	61%	27%	0	0	
82	Nilagiri (NAC)	2.13	2	2.13	2	4	10	53%	20%	0	0	
83	Nimapara (NAC)	2.36	2	2	2	2	10	100%	20%	0	0	
84	Nuapada NAC	2.76	2.2	2.76	2.2	3	10	92%	22%	0	0	
85	Odagaon (NAC)	1.54	1.37	1.54	1.37	5	10	31%	14%	0	0	
86	Padmapur NAC	2.4	2.1	2	2.1	2	10	100%	21%	4	20	31-08-2021
87	Paradeep (M)	7.88	6.92	7.88	6.92	12	20	66%	35%	0	0	
88	Paralakhemundi (M)	8.34	4.5	3	4.5	3	10	100%	45%	6	10	31-08-2021
89	Patnagarh (NAC)	2.55	2.26	2.55	2.26	5	10	51%	23%	0	0	
90	Pattamundai (M)	6.81	5.94	5	5.94	5	20	100%	30%	0	0	
91	Phulabani (M)	4.39	3.86	4.39	3.86	8	20	55%	19%	3	10	31-08-2021
92	Pipili (NAC)	2.17	1.93	2.17	1.93	3	10	72%	19%	2	0	31-08-2021
93	Polasara (NAC)	3	2.47	3	2.47	5	10	60%	25%	0	0	
94	Puri (M)	30.63	19.86	30.63	19.86	35	40	88%	50%	15	0	31-08-2021
95	Purusottampur (NAC)	2.5	1.71	2.5	1.71	5	10	50%	17%	0	0	
96	Rairangpur (M)	3.06	2.7	3.06	2.7	10	20	31%	14%	5	5	31-08-2021
97	Rajagangapur (M)	5.95	5.23	5	5.23	5	10	100%	52%	5	0	31-08-2021
98	Rambha (NAC)	2.13	1.83	2.13	1.83	5	10	43%	18%	0	0	
99	RANPUR NAC	1.85	1.64	1.85	1.64	3	10	62%	16%	0	0	
100	Raurkela (MC)	50	50	40	50	40	80	100%	63%	0	0	
101	Rayagada (M)	13.47	8	13.47	8	15	20	90%	40%	5	0	31-08-2021
102	Redhakhol (NAC)	1.92	1.71	1.92	1.71	3	10	64%	17%	0	0	
103	Sambalpur (MC)	64.27	45	20	40	20	40	100%	100%	20	20	31-08-2021
104	Sonepur (M)	3.79	3.29	3.79	3.29	5	10	76%	33%	0	0	
105	Soro (M)	3.84	3.39	3.84	3.39	5	10	77%	34%	0	0	
106	Sunabeda (M)	5.84	5.14	5.84	5.14	10	20	58%	26%	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		Proposed MSW Facilities		Completion Timeline
		Wet Waste	Dry Waste	Wet Waste	Dry Waste	Wet Waste	Dry Waste	Wet Waste	Dry Waste	Wet Waste	Dry Waste	
107	Sundargarh (M)	6.8	6.7	6.8	6.7	10	10	68%	67%	5	10	31-08-2021
108	Surada (NAC)	2	1.5	2	1.5	5	10	40%	15%	0	0	
109	Talcher (M)	7.64	6	5	6	5	10	100%	60%	5	10	31-08-2021
110	Tarbha (NAC)	1.4	1.1	1.4	1.1	3	10	47%	11%	0	0	
111	Titilagarh (M)	3.7	3.26	3.7	3.26	5	10	74%	33%	0	0	
112	Tusura NAC	1.39	1.24	1.39	1.24	5	10	28%	12%	0	0	
113	Udala (NAC)	1.67	1.49	1.67	1.49	5	10	33%	15%	0	0	
114	Umerkote (M)	3.45	3.04	3.45	3.04	5	10	69%	30%	0	0	
<b>Total:</b>		<b>968</b>	<b>804</b>	<b>647</b>	<b>602</b>	<b>853</b>	<b>1,646</b>	<b>72%</b>	<b>31%</b>	<b>321</b>	<b>228</b>	



**GOVERNMENT OF ODISHA  
FOREST & ENVIRONMENT DEPARTMENT**

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No. FE-ENV1-ENV-0005-2020/ 7817 /F&E, Dt. 16.04.21

From

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

To

The Additional Chief Secretary to Govt., Health & Family Welfare Department  
The Principal Secretary to Govt., Panchayati Raj & Drinking Water Department  
The Principal Secretary to Govt., Department of Water Resources  
The Principal Secretary to Govt., Housing & Urban Development Department  
The Commissioner-cum-Secretary to Govt., F&ARD Department  
The Director, Municipal Administration, H&UD Department  
The Principal Secretary, Industries Department  
The Director of Industries  
The Director of Mines  
The Director, Public Health, Health & Family Welfare Department  
The EIC, Water Resources Department  
The Member Secretary, Odisha Water Supply and Sewerage Board, Bhubaneswar  
The Member Secretary, State Pollution Control Board, Odisha

Sub: Review Meeting of Environment Monitoring Cell scheduled to be held on 19.04.2021 at 12:45 PM is rescheduled to 29.04.2021 at 12:45 PM through online VC mode on Microsoft Teams under the Chairmanship of the Chief Secretary, Odisha for reviewing the compliances of Hon'ble NGT Cases in O.A. No. 606/2018 and related matters.


Sir,

In inviting a reference to the subject cited above, I am directed to intimate that the 3<sup>rd</sup> Review Meeting of Environment Monitoring Cell scheduled to be held on 19.04.2021 at 12:45 PM is rescheduled to 29.04.2021 at 12:45 PM through virtual mode on Microsoft Teams.

Therefore, you are requested to kindly make it convenient to attend the aforesaid meeting on the scheduled date and time. The VC link for the meeting will be communicated in due course.


Yours faithfully,

Enclosed: As above

  
Director, Environment-cum-  
Special Secretary to Government

Memo No. 7818 / F&E, Dt. 16.04.21

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

  
Director, Environment-cum-  
Special Secretary to Government

Memo No. 7819 / F&E, Dt. 16.04.21

Copy forwarded to the Senior PS to the Additional Chief Secretary, F&E Department for kind information of the Additional Chief Secretary, F&E Department.

  
Director, Environment-cum-  
Special Secretary to Government

**Agenda item for the 3<sup>rd</sup> Meeting of Environment Monitoring Cell under the Chairmanship of Chief Secretary, Odisha to be held on dt. 29.04.2021, 12:45 PM on Virtual Mode through Microsoft Teams**

As per the direction of Hon'ble NGT in O.A. No. 606/2018 the EMC has been constituted and two meetings were held earlier on 13.11.2020 and 19.02.2021. The minutes of the 2<sup>nd</sup> review meeting was communicated to the members vide letter No. 4342/F&E dated 26.02.2021.

The agenda note for the 3<sup>rd</sup> meeting of the Environment Monitoring Cell is proposed as follows:

1. Compliance to the proceeding of 2<sup>nd</sup> EMC meeting held on 19.02.2021 by different Departments.
2. Compliance reports to be furnished by different Departments as on 31.03.2021 for onward transmission to CPCB.
3. Any other matter with permission of the Chair.

The following cases relating to different departments and the action to be taken is to be reviewed:

Sl. No.	Case No.	Subject Matter	Department Concerned	Action to be taken
1	O.A. No. 606/2018	Solid waste management	<ul style="list-style-type: none"> <li>• H &amp; UD Department</li> <li>• PR &amp; DW Department</li> <li>• OWSSB</li> <li>• SPCB</li> </ul>	Management of municipal solid waste, segregation, transportation, disposal, identification of sanitary land fill site, legacy waste, bio-mining
2	O.A. No. 593/2017	Sewage management, ETP, STP and use of treated water	<ul style="list-style-type: none"> <li>• H&amp;UD Department</li> <li>• PR&amp;DW Department</li> <li>• OWSSB</li> <li>• SPCB</li> </ul>	Establishment of STP and use of treated water. ETP matter of industries.
3	O.A. No. 673/2018	351 polluted river stretches	<ul style="list-style-type: none"> <li>• WR Department</li> <li>• H &amp; UD Department</li> <li>• PR &amp; DW Department</li> <li>• OWSSB</li> <li>• SPCB</li> </ul>	19 polluted river stretches and river rejuvenation.
4	O.A. No. 710-713 /2017 & O.A. No. 72/2020	Bio-medical waste management & COVID 19 Waste Management	<ul style="list-style-type: none"> <li>• H &amp; FW Department</li> <li>• F &amp; ARD Department</li> <li>• H &amp; UD Department</li> <li>• SPCB</li> </ul>	Authorization of Health Care Facilities (HCF) in both Government and non-Government organizations, veterinary hospitals at district and sub-division level Matter relating to establishment of CBWTF and

				implementation of Bar Code System with OCEMS facility. District Environment Plan
5	O.A. No. 325 / 2015	<p>Identification, geo tagging, restoration and rejuvenation of Water bodies (Ponds/ lakes/ wetlands)</p> <p>Monitoring and assessment of water quality parameters</p> <p>Preparation of action plans for restoration of prioritised water bodies</p> <p>Execution of approved action plans</p>	<ul style="list-style-type: none"> <li>• WR Department</li> <li>• H &amp; UD Department</li> <li>• PR &amp; DW Department</li> <li>• SPCB</li> </ul>	<p>As per the order of the Hon'ble Tribunal dated 18.11.2020, the Water Resources Department has forwarded the data to CPCB vide letter No. 7047/WR dt. 26.02.2021. As decided the information on 56 Nos. of tanks identified are submitted to CPCB.</p> <p>In the meantime, the CMC has been constituted by the Ministry of Jal Shakti and NMCG has reviewed the matter in its 1<sup>st</sup> meeting held on 30.03.2021.</p>
6	O.A. No. 681/2018	NCAP matter relating to seven(7) non-attainment cities of Odisha	<ul style="list-style-type: none"> <li>• H &amp; UD Department</li> <li>• Home Department</li> <li>• Industries Department</li> <li>• SPCB</li> <li>• Power (OREDA)</li> <li>• RTO, C&amp;T Department</li> <li>• Agriculture &amp; FE Department</li> <li>• Public Works Department</li> <li>• RD Department</li> <li>• DFO, Forest Department</li> </ul>	<p>The non-attainment cities are Angul, Talcher, Balasore, Bhubaneswar, Cuttack, Rourkela, Kalinganagar.</p> <p>The District Level Monitoring Committee was reconstituted vide No. 6642/FE dated 26.03.2021. The District Collectors to review the monitoring on monthly basis.</p> <p>The 3<sup>rd</sup> AQMC meeting was held on 20.01.2021 under the Chairmanship of ACS, Forest &amp; Env. Department, intimated to SPCB vide No. 1886/FE dated 27.01.2021.</p> <p>The Steering Committee Meeting to be held</p>

				<p>under the Chairmanship of Chief Secretary on Quarterly basis.</p> <p>The MoU signed by SPCB, IoR &amp; concerned ULB in virtual mode on dated 26.03.2021.</p> <p>Noise monitoring matter.</p>
7	O.A. No. 173/2018 with O.A. No. 360/2015	Enforcement and monitoring mechanism to control and regulate illegal sand mining including river bed sand mining	<ul style="list-style-type: none"> <li>• Revenue &amp; DM Department</li> <li>• SPCB</li> <li>• All District Collectors</li> <li>• SEIAA on EC matters</li> </ul>	<p>Sustainable sand mining matter as per guideline of SSMG-2016 r/w EMGSM-2020 notified by MoEF &amp; CC reinforced. The States are required to furnish their Annual Report to be submitted to MoEF &amp; CC by 30<sup>th</sup> April giving status till 31<sup>st</sup> March and first report to be filed by 30.04.2022.</p>

**Latest Water quality of polluted river, its tributaries, drains and ground water quality in the catchment of Polluted river stretches during May, 2021**

**Polluted River stretch : May, 2021**

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	Not Monitored due to COVID-19 cases						
	Palasuni							
	Samantarapur							
	Vadimula							
2. Daya River (Bhubaneswar to Bargarh) (Priority-IV)	Bhubaneswar D/s at Kanti	Not Monitored due to COVID-19 cases						
	Bhubaneswar FD/s at Manitri							
	Daya at Kanas							
3. Kuakhai River (Urali to Bhubaneswar) (Priority-IV)	Bhubaneswar FU/s	Not Monitored due to COVID-19 cases						
	Bhubaneswar U/s							
Bathing Water Quality (MOEF Notification G.S.R. No. 742(E) Dt. 25.09.2000)		6.5-8.5	5.0	3.0	-	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
Khandagiri Area	April, 2021	5.6	<1.0	0.338	<1.8	<1.8
Old town-Samantarapur Area	April, 2021	6.5	<1.0	0.427	<1.8	<1.8
Kalpana-Laxmisagar Area,	April, 2021	6.3	<1.0	0.444	<1.8	<1.8
Chandrasekharpur	April, 2021	6.0	<1.0	<0.3	<1.8	<1.8
Capital Hospital Area,	April, 2021	5.7	<1.0	0.690	<1.8	<1.8
Secretariate-Govenor House-Old bus stand Area	April, 2021	6.0	<1.0	0.505	<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

**Drain Water quality of Bhubaneswar city falling on Gangua nallah (During May, 2021)**

Sl. No.	Type	Quantity (MLD)	BOD (mg/L)	FC (MPN/100 mL)
	<b>Drain Name</b>			
1	Patia			
2	Sainik School			
3	Vani Vihar			
4	Laxmisagar area			
5	Baragada Area			
6	Kedargouri			
7	Airport area			
8	Ghatikia			
9	Nicco Park			
10	Sundarpada			

Not Monitored due to COVID-19 cases

**Polluted River stretch : May, 2021**

Name of polluted river stretch	Name of Monitoring Station	pH	DO, mg/L	BOD, mg/L	TC, MPN/100 mL	FC, MPN/100 mL	FS, MPN/100 mL	Water Quality Status (Conforming (C) / Non-Conforming (NC))
4. Kathajodi River (Cuttack to Urali) (Priority-III)	Cuttack D/s	8.2	5.1	3.6	54000	22000	54	NC
	Cuttack FD/s at Mattagajpur	8.5	6.4	2.1	22000	13000	24	NC
5. Serua River (Khandaeta to Sankhatrasa) (Priority-V)	Cuttack FD/s at Sankhatrasa	7.2	8.0	3.4	35000	17000	35	NC
Bathing Water Quality (MOEF Notification G.S.R. No. 742(E) Dt. 25.09.2000)		6.5-8.5	5.0	3.0	-	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, 2021	6.9	<1.0	4.450	<1.8	<1.8
Mangalabag	April, 2021	7.0	<1.0	<0.3	<1.8	<1.8
Madhupatna-Kalyan Nagar Area	April, 2021	6.7	<1.0	0.550	<1.8	<1.8
Badambadi Area	April, 2021	6.9	<1.0	<0.3	<1.8	<1.8
Bidanasi-Tulsipur Area,	April, 2021	7.1	<1.0	0.563	<1.8	<1.8
Drinking water Specification (IS : 10500:2012) Desirable limit		6.5-8.5	-	45	Absent	Absent

NA : Not analysed

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

**Characteristic of Drains falling on Kathajodi river (May, 2021)**

Sl. No.	Station Name	Parameters					
		pH	BOD, mg/l	COD, mg/l	TSS, mg/l	TC	FC
						MPN/100ml	
1	Wastewater discharge to Kathajodi river at Mattagajpur	7.3	7.0	27.3	15.0	54000	24000
2	Wastewater discharge to Kathajodi river CDA-Bidanasi area	7.0	9.5	30.9	29.0	92000	35000
3	Wastewater discharge to Kathajodi river at Khan nagar	7.2	34.0	100.0	49.0	>160000	>160000

**Polluted River stretch : May, 2021**

Name of polluted river stretch	Name of Monitoring Station	pH	DO, mg/L	BOD, mg/L	TC, MPN/ 100 mL	FC, MPN/ 100 mL	FS, MPN/ 100 mL	Water Quality Status (Conforming (C) / Non-Conforming (NC))
6. Guradih nallah Along Rourkela <b>(Priority-III)</b>	Rourkela (before confluence with Brahmani river)	7.6	4.3	5.6	35000	11000	94	NC
7. Brahmani (Rourkela to Biritola) <b>(Priority-V)</b>	Panposh D/s at Deogaon	7.6	4.2	4.8	35000	14000	49	NC
	Rourkela D/s at Jalda	7.4	5.5	3.8	22000	7900	24	NC
	Rourkela FD/s at Attaghat	7.4	6.0	3.4	790	130	<1.8	NC
	Rourkela FFD/s at Biritola	7.5	6.4	2.4	330	78	<1.8	C
Bathing Water Quality (MOEF Notification G.S.R. No. 742(E) Dt. 25.09.2000)		6.5-8.5	5.0	3.0	-	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 : May, 2021**

Name of polluted river stretch	Name of Monitoring Station	pH	DO, mg/L	BOD, mg/L	TC, MPN/ 100 mL	FC, MPN/ 100 mL	FS, MPN/ 100 mL	Water Quality Status (Conforming (C) / Non-Conforming (NC))
8. Nandira jhor D/s Talcher <b>(Priority-III)</b>	Nandira D/s at Dasanali	7.5	5.6	1.8	2200	700	<1.8	C
9. Banguru nallah Along Talcher <b>(Priority-V)</b>	Along Talcher	6.9	6.0	1.6	1700	330	13	C
Bathing Water Quality (MOEF Notification G.S.R. No. 742(E) Dt. 25.09.2000)		6.5-8.5	5.0	3.0	-	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, 2021	7.2	<1.0	0.741	<1.8	<1.8
Meramundali area	April, 2021	7.7	<1.0	1.584	<1.8	<1.8
Talcher Thermal area	April, 2021	7.4	<1.0	0.314	<1.8	<1.8
Banarpal	April, 2021	7.2	<1.0	13.140	<1.8	<1.8
Kulad	April, 2021	8.1	<1.0	<0.3	<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 : May, 2021**

Name of polluted river stretch	Name of Monitoring Station	pH	DO, mg/L	BOD, mg/L	TC, MPN/ 100 mL	FC, MPN/ 100 mL	FS, MPN/ 100 mL	Water Quality Status (Conforming (C) / Non-Conforming (NC))
10. Mahanadi (Sambalpur to Paradeep) (Priority-V)	Sambalpur D/s	8.1	7.8	< 1.0	4900	1700	14	C
	Sambalpur FD/s at Shankarmath	7.9	7.8	< 1.0	3400	1400	8	C
	Sambalpur FFD/s at Huma	7.9	8.0	< 1.0	2700	1100	5	C
	Sonepur U/s	8.0	8.0	< 1.0	<1.8	<1.8	NA	C
	Sonepur D/s	8.2	7.8	< 1.0	20	<1.8	NA	C
	Tikarpada	7.6	8.2	< 1.0	1100	490	4	C
	Narasinghpur	7.7	9.0	< 1.0	790	170	<1.8	C
	Munduli	6.7	8.8	1.1	1300	490	<1.8	C
	Cuttack U/s	6.6	8.8	1.1	1300	490	<1.8	C
	Cuttack D/s	6.7	7.8	1.8	3500	2200	5	C
	Cuttack FD/s	6.9	8.0	1.3	2200	1300	<1.8	C
	Paradeep U/s	8.1	7.6	1.1	<1.8	<1.8	<1.8	C
Paradeep D/s	8.0	7.2	1.3	20	<1.8	<1.8	C	
11. Bheden Along Bheden (Priority-V)	Jharsuguda	7.7	8.2	< 1.0	270	78	NA	C
Bathing Water Quality (MOEF Notification G.S.R. No. 742(E) Dt. 25.09.2000)		6.5-8.5	5.0	3.0	-	500 (Desirable) 2500 (permissible)	100 (Desirable) 500 (Maximum Permissible)	

**Water quality of Tributaries of Mahanadi River (May, 2021)**

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	8.1	6.4	1.4	1700	220	NA	C
	Jharsuguda	8.0	7.8	< 1.0	2800	790	NA	C
	Brajrajnagar U/S	8.0	7.6	< 1.0	2200	1100	NA	C
	Brajrajnagar D/S	7.7	8.0	1.2	2800	1300	NA	C
Ong River	Dharuakhaman	8.2	7.4	< 1.0	45	<1.8	NA	C
Tel River	Monmunda	8.0	7.6	< 1.0	130	<1.8	NA	C
Bathing Water Quality (MOEF Notification G.S.R. No. 742(E) Dt. 25.09.2000)		6.5-8.5	5.0	3.0	-	500 (Desirable) 2500 (permissible)	100 (Desirable) 500 (Maximum Permissible)	

## Ground Water quality

Stn Name	Month	pH	BOD, mg/l	Nitrate- mg/l	TC, MPN/ 100 ml	FC, MPN/ 100 ml
<b>Sambalpur town Along Mahanadi River</b>						
Near Panthanivas	April, 2021	7.1	<1.0	1.669	<1.8	<1.8
Near Railway station	April, 2021	7.4	<1.0	1.576	<1.8	<1.8
Near VSS Medical College, Burla	April, 2021	7.5	<1.0	1.201	<1.8	<1.8
<b>Sonepur town Along Mahanadi River</b>						
Near District Head Quarter Hospital, Sonepur	April, 2021	7.3	0.6	0.666	<1.8	<1.8
Near Gundicha temple of Tentelghat, Sonepur	April, 2021	7.4	0.8	0.757	<1.8	<1.8
<b>Paradeep town Along Mahanadi River</b>						
Badapadia market complex	April, 2021	8.2	<1.0	<0.3	<1.8	<1.8
Musadiha	April, 2021	8.5	<1.0	<0.3	<1.8	<1.8
<b>Jharsuguda town in the catchment of Bheden river and Ib river</b>						
Burkhamunda	April, 2021	8.3	<1.0	0.527	<1.8	<1.8
Badamal Industrial Estate	April, 2021	6.3	<1.0	0.452	<1.8	<1.8
Budhipadar	April, 2021	6.8	<1.0	0.368	<1.8	<1.8
Brajarajnagar Mining belt	April, 2021	5.3	<1.0	0.774	<1.8	<1.8
Rampur area (Water tank)	April, 2021	6.8	<1.0	<0.3	<1.8	<1.8
Ib thermal power station	April, 2021	6.0	<1.0	<0.3	<1.8	<1.8
Belpahar area	April, 2021	5.2	<1.0	11.347	<1.8	<1.8
Drinking water Specification (IS : 10500:2012) Desirable limit		6.5-8.5	-	45	Absent	Absent

NA : Not analysed

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

**Polluted River stretch : May, 2021**

Name of polluted river stretch	Name of Monitoring Station	pH	DO, mg/L	BOD, mg/L	TC, MPN/ 100 mL	FC, MPN/ 100 mL	FS, MPN/ 100 mL	Water Quality Status (Conforming (C) / Non-Conforming (NC))
12. Mangala (Along Puri) <b>(Priority-V)</b>	Mangala D/s at Golasahi	8.4	8.9	2.6	3500	1300	8	C
13. Nuna (Along Bijipur, Puri) <b>(Priority-V)</b>	Nuna at Bijipur	7.2	6.5	1.5	4900	1700	14	C
14. Ratnachira (Along Sakhigopal, Puri) <b>(Priority-V)</b>	Kumardihi	7.7	7.6	1.1	1700	790	<1.8	C
Bathing Water Quality (MOEF Notification G.S.R. No. 742(E) Dt. 25.09.2000)		6.5-8.5	5.0	3.0	-	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, 2021	7.4	<1.0	0.662	<1.8	<1.8
Near Jagannath Temple,	April, 2021	7.4	<1.0	1.215	<1.8	<1.8
Near Sea Beach	April, 2021	7.1	<1.0	12.164	<1.8	<1.8
Baliapanda	April, 2021	7.1	<1.0	0.383	<1.8	<1.8
Drinking water Specification (IS : 10500:2012)Desirable limit		6.5-8.5	-	45	Absent	Absent

NA : Not analysed

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

**Characteristic of Drain falling on Mangala river (May, 2021)**

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)	7.6	16.8	64.2	22.0	160000	54000

**Polluted River stretch : May, 2021**

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)	Jayakaypur D/s	8.1	6.2	< 1.0	1700	790	4	C
	Rayagada D/s	7.9	7.1	1.1	2200	390	<1.8	C

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

**Polluted River stretch : May, 2021**

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	8.2	7.6	< 1.0	3500	1100	<1.8	C
Bathing Water Quality (MOEF Notification G.S.R. No. 742(E) Dt. 25.09.2000)		6.5-8.5	5.0	3.0	-	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 : May, 2021**

Name of polluted river stretch	Name of Monitoring Station	pH	DO, mg/L	BOD, mg/L	TC, MPN/ 100 mL	FC, MPN/ 100 mL	FS, MPN/ 100 mL	Water Quality Status (Conforming (C) / Non-Conforming (NC))
17. Kusumi Along Tangi <b>(Priority-V)</b>	Along Tangi	7.0	6.4	1.2	2800	1700	NA	C
Bathing Water Quality (MOEF Notification G.S.R. No. 742(E) Dt. 25.09.2000)		6.5-8.5	5.0	3.0	-	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 : May, 2021**

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 Pratappur to Ganjam <b>(Priority-V)</b>	Madhopur	7.7	8.0	1.2	2200	940	11	C
	Potagarh	8.1	6.0	< 1.0	790	220	17	C
19. Sabulia Along Jagannathpatna, Rambha <b>(Priority-V)</b>	Jagannathpatna, Rambha	7.9	1.1	1.3	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	3.0	-	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, 2021	7.9	<1.0	0.888	<1.8	<1.8
Bus stand	April, 2021	7.4	<1.0	4.154	<1.8	<1.8
Badabazar	April, 2021	7.1	<1.0	36.180	<1.8	<1.8
Railway station	April, 2021	7.2	<1.0	15.797	<1.8	<1.8
Drinking water Specification (IS : 10500:2012) Desirable limit		6.5-8.5	-	45	Absent	Absent

NA : Not analysed

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

**Annexure- 5 (a)**

**Status of Polluted River stretches in the State of Odisha during the period 2017-2021 with Maximum BOD values during the year**

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

**Summary of Number of Polluted River Stretches under Different Category during the Period 2017-2021**

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

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



**Water quality of Rivers in Odisha during May, 2021**

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

**No. of stations not monitored due to COVID 19 cases : 10**

**No. of stations conforming to Bathing Water quality : 108**

**(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	8.1	6.4	1.4	1700	220	NA	C
	2	Jharsuguda	8.0	7.8	< 1.0	2800	790	NA	C
	3	Brajrajnagar U/S	8.0	7.6	< 1.0	2200	1100	NA	C
	4	Brajrajnagar D/S	7.7	8.0	1.2	2800	1300	NA	C
Bheden	5	Jharsuguda	7.7	8.2	< 1.0	270	78	NA	C
Hirakud Reservoir	6	Hirakud	8.4	8.6	< 1.0	1300	220	NA	C
Mahanadi	7	Sambalpur U/S	8.2	8.2	< 1.0	940	220	<1.8	C
	8	Sambalpur D/S	8.1	7.8	< 1.0	4900	1700	14	C
	9	Sambalpur FD/S at Shankarmath	7.9	7.8	< 1.0	3400	1400	8	C
	10	Sambalpur FD/S at Huma	7.9	8.0	< 1.0	2700	1100	5	C
	11	Power Channel U/S	8.1	8.2	< 1.0	790	78	NA	C
	12	Power Channel D/S	8.3	7.8	< 1.0	1700	790	NA	C
	13	Sonepur U/S	8.0	8.0	< 1.0	<1.8	<1.8	NA	C
	14	Sonepur D/S	8.2	7.8	< 1.0	20	<1.8	NA	C
	15	Tikarpada	7.6	8.2	< 1.0	1100	490	4	C
	16	Narasinghpur	7.7	9.0	< 1.0	790	170	<1.8	C
	17	Munduli	6.7	8.8	1.1	1300	490	<1.8	C
	18	Cuttack U/s	6.6	8.8	1.1	1300	490	<1.8	C
	19	Cuttack D/s	6.7	7.8	1.8	3500	2200	5	C
	20	Cuttack FD/s	6.9	8.0	1.3	2200	1300	<1.8	C
21	Paradeep U/S	8.1	7.6	1.1	<1.8	<1.8	<1.8	C	
22	Paradeep D/S	8.0	7.2	1.3	20	<1.8	<1.8	C	
Ong	23	Dharuakhaman	8.2	7.4	< 1.0	45	<1.8	NA	C
Tel	24	Monmunda	8.0	7.6	< 1.0	130	<1.8	NA	C
Kathajodi	25	Cuttack U/s	7.0	8.4	1.1	1700	790	<1.8	C
	26	Cuttack D/s	8.2	5.1	3.6	54000	22000	54	NC
	27	Cuttack FD/s at Mattagajpur	8.5	6.4	2.1	22000	13000	24	NC
	28	Cuttack FFD/s at Kamasasan	7.3	8.2	1.5	3500	1700	NA	C

Name of River	Sl. No.	Name of Monitoring Station	pH	DO, mg/L	BOD, mg/L	TC, MPN/100 mL	FC, MPN/100 mL	FS, MPN/100 mL	Water Quality Status (Conforming (C)/ Non-Conforming (NC))
Serua	29	Cuttack FD/s at Sankhatrasa	7.2	8.0	3.4	35000	17000	35	NC
Kuakhai	30	Bhubaneswar FU/s	Not Monitored						
	31	Bhubaneswar U/s							
Daya	32	Gelapur							
	33	Bhubaneswar D/s							
	34	BhubaneswarFD/s							
	35	Kanas							
Birupa	36	Choudwar	8.0	8.2	1.1	2200	1300	NA	C
Gangua nallah	37	Rajdhani Engineering College	Not Monitored						
	38	Palasuni							
	39	Samantarapur							
	40	Vadimula							
Kushabhadra	41	Bhingarpur	7.4	6.1	1.5	9400	2100	NA	NC
	42	Nimapara	7.4	6.5	1.7	28000	14000	NA	NC
	43	Gop	7.3	6.6	1.9	35000	17000	NA	NC
Gobari	44	Kendrapada U/s	8.1	7.4	1.4	2400	790	NA	C
	45	Kendrapada D/s	7.8	7.0	1.6	4000	1700	NA	C
Mangala	46	Mangala U/s at Malatipatpur	7.8	6.1	1.2	2200	790	5	C
	47	Mangala D/s at Golasahi	8.4	8.9	2.6	3500	1300	8	C
Bhargavi	48	Chandanpur	8.5	6.4	< 1.0	2400	1300	NA	C
Devi	49	Machhagaon	8.2	7.6	1.7	790	220	NA	C
Luna	50	Luna at Bijipur	7.2	6.5	1.5	4900	1700	14	C
Sabulia	51	Rambha, Jagatnathpatna	7.9	1.1	1.3	4000	2100	NA	C
Kusumi	52	Tangi	7.0	6.4	1.2	2800	1700	NA	C
Kansari	53	Banapur	6.9	5.3	1.4	3500	2200	NA	C
Badasankha	54	Langalaeswar	Not Monitored						
Ratnachira	55	Kumardihi	7.7	7.6	1.1	1700	790	<1.8	C
<b>Bathing Water Quality (MOEF Notification G.S.R. No. 742(E) Dt. 25.09.2000)</b>			<b>6.5-8.5</b>	<b>5.0</b>	<b>3.0</b>	<b>-</b>	<b>500 (D) 2500 (P)</b>	<b>100 (D) 500 (P)</b>	<b>-</b>

NA : Not analysed

D : Desirable P : Permissible

**(B) Brahmani River system**

Name of River	Sl. No.	Name of Monitoring Station	pH	DO, mg/L	BOD, mg/L	TC, MPN/100 mL	FC, MPN/100 mL	FS, MPN/100 mL	Water Quality Status (Conforming (C)/ Non-Conforming (NC))
Brahmani	1	Panposh U/S	7.5	7.4	1.0	3500	2200	14	C
	2	Panposh D/S	7.6	4.2	4.8	35000	14000	49	NC
	3	Rourkela D/S at Jalda	7.4	5.5	3.8	22000	7900	24	NC
	4	Rourkela FD/s at Attaghat	7.4	6.0	3.4	790	130	<1.8	NC
	5	Rourkela FFD/s at Biritola	7.5	6.4	2.4	330	78	<1.8	C
	6	Bonaigarh	7.5	8.4	<1.0	490	45	NA	C
	7	Rengali	7.4	7.4	<1.0	490	130	NA	C
	8	Samal	7.3	7.0	1.3	2200	1300	NA	C
	9	Talcher FU/S	7.5	7.2	1.2	1100	490	<1.8	C
	10	Talcher U/s	7.0	7.4	1.3	2200	940	<1.8	C
	11	Mandapal	7.1	6.8	1.2	4700	2200	11	C
	12	Talcher D/S	7.1	6.4	1.6	3500	1300	<1.8	C
	13	Talcher FD/S	7.1	7.0	1.1	1300	490	<1.8	C
	14	Dhenkanal U/s	7.2	7.6	<1.0	1100	220	NA	C
	15	Dhenkanal D/s	7.2	6.8	1.2	1300	330	NA	C
	16	Bhuban	7.7	7.4	1.1	3500	1700	NA	C
	17	Kabatabandha	8.4	8.0	<1.0	790	170	NA	C
	18	Dharmasala U/s	7.7	7.5	<1.0	2400	790	NA	C
	19	Dharmasala D/s	8.2	7.4	<1.0	3500	1700	NA	C
	20	Pottamundai	8.1	8.0	<1.0	2200	790	NA	C
Kharasrota	21	Khanditara	7.8	7.8	<1.0	1300	220	NA	C
	22	Binjharpur	8.1	7.4	1.6	2400	790	NA	C
	23	Ali	8.1	7.8	<1.0	3500	1300	NA	C
Nandira jhor	24	Nandira U/s	8.1	6.4	1.2	790	170	NA	C
	25	Nandira D/s	7.5	5.6	1.8	2200	700	<1.8	C
Kisindajhor	26	Kisindajhor	7.4	5.6	1.5	1300	330	NA	C
Sankh	27	Sankh U/s	7.5	6.4	<1.0	3500	790	NA	C
Koel	28	Koel U/s	7.5	7.2	<1.0	2200	490	NA	C
Guradih nallah	28	Rourkela (before confluence with Brahmani river)	7.6	4.3	5.6	35000	11000	94	NC
Badajhor	30	Badajhor	7.9	11.0	<1.0	2400	1300	NA	C
Damsala	31	Dayanabil	7.8	7.2	<1.0	1100	270	NA	C
Gondanallah	32	Marthapur	7.8	7.1	1.2	1300	330	NA	C
Karo	33	Barbil	7.4	6.9	<1.0	490	130	NA	C
Lingra	34	Lingira U/s	7.9	7.2	<1.0	2800	1300	NA	C
	35	Lingira D/s	7.9	6.4	1.6	3500	1700	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	7.2	8.8	< 1.0	2800	1300	NA	C
Bangurunallah	37	Bangurunallah	6.9	6.0	1.6	1700	330	13	C
Singadajhor	38	Singadajhor	7.1	6.4	1.3	1700	490	NA	C
Tikira	39	Kaniha U/s	7.0	8.0	< 1.0	3500	1300	NA	C
	40	Kaniha D/s	7.1	6.0	1.4	4700	2200	NA	C
Bangurusingadajhor	41	Bangurusingadajhor	7.3	8.4	< 1.0	2200	490	NA	C
<b>Bathing Water Quality (MOEF Notification G.S.R. No. 742(E) Dt. 25.09.2000)</b>			<b>6.5-8.5</b>	<b>5.0</b>	<b>3.0</b>	<b>-</b>	<b>500 (D) 2500 (P)</b>	<b>100 (D) 500 (P)</b>	<b>-</b>

(C) Baitarani River system

Name of River	Sl. No.	Name of Monitoring Station	pH	DO, mg/L	BOD, mg/L	TC, MPN/100 mL	FC, MPN/100 mL	FS, MPN/100 mL	Water Quality Status (Conforming (C)/ Non-Conforming (NC))
Kundra nallah	1	Joda	7.1	6.8	< 1.0	2200	1300	NA	C
Kusei	2	Deogaon	7.9	7.8	1.3	3500	400	NA	C
Baitarani	3	Naigarh	7.3	6.4	1.3	1300	330	NA	C
	4	Unchabali	7.2	6.1	< 1.0	3500	1300	NA	C
	5	Champua	7.2	6.8	1.1	2200	490	NA	C
	6	Tribindha	7.2	6.7	1.5	2400	790	NA	C
	7	Joda	7.3	6.6	1.3	1300	330	NA	C
	8	Anandpur	7.4	7.6	1.5	940	220	NA	C
	9	Jajpur	8.1	7.6	1.2	3500	700	NA	C
	10	Chandbali U/s	7.1	6.4	< 1.0	1300	330	NA	C
	11	Chandbali D/s	7.4	6.0	< 1.0	2200	490	NA	C
Dhamra	12	Dhamra	8.1	7.2	< 1.0	1300	490	NA	C
Salandi	13	Bhadrak U/s	8.0	6.8	< 1.0	1700	790	NA	C
	14	Bhadrak D/s	7.2	6.0	1.0	2400	490	NA	C
<b>Bathing Water Quality (MOEF Notification G.S.R. No. 742(E) Dt. 25.09.2000)</b>			<b>6.5-8.5</b>	<b>5.0</b>	<b>3.0</b>	<b>-</b>	<b>500 (D) 2500 (P)</b>	<b>100 (D) 500 (P)</b>	<b>-</b>

NA : Not analysed

D : Desirable P : Permissible

**(D) Rushikulya River system**

Name of River	Sl. No.	Name of Monitoring Station	pH	DO, mg/L	BOD, mg/L	TC, MPN/100 mL	FC, MPN/100 mL	FS, MPN/100 mL	Water Quality Status (Conforming (C)/ Non-Conforming (NC))
Russelkunda Reservoir	1	Russelkunda Reservoir	8.5	9.0	1.3	3500	1400	NA	C
Badanadi	2	Aska	8.5	6.5	1.9	4700	1400	NA	C
Rushikulya	3	Aska	8.4	7.8	2.0	2800	1100	NA	C
	4	Nalabanta	8.3	7.5	1.8	3500	1300	NA	C
	5	Madhopur	7.7	8.0	1.2	2200	940	11	C
	6	Potagarh	8.1	6.0	< 1.0	790	220	17	C
<b>Bathing Water Quality (MOEF Notification G.S.R. No. 742(E) Dt. 25.09.2000)</b>			<b>6.5-8.5</b>	<b>5.0</b>	<b>3.0</b>	<b>-</b>	<b>500 (D) 2500 (P)</b>	<b>100 (D) 500 (P)</b>	<b>-</b>

**(E) Subarnarekha River system**

Name of River	Sl. No.	Name of Monitoring Station	pH	DO, mg/L	BOD, mg/L	TC, MPN/100 mL	FC, MPN/100 mL	FS, MPN/100 mL	Water Quality Status (Conforming (C)/ Non-Conforming (NC))
Subarnarekha	1	Rajghat	8.4	7.2	< 1.0	1300	220	NA	C
<b>Bathing Water Quality (MOEF Notification G.S.R. No. 742(E) Dt. 25.09.2000)</b>			<b>6.5-8.5</b>	<b>5.0</b>	<b>3.0</b>	<b>-</b>	<b>500 (D) 2500 (P)</b>	<b>100 (D) 500 (P)</b>	<b>-</b>

**(F) Budhabalanga River system**

Name of River	Sl. No.	Name of Monitoring Station	pH	DO, mg/L	BOD, mg/L	TC, MPN/100 mL	FC, MPN/100 mL	FS, MPN/100 mL	Water Quality Status (Conforming (C)/ Non-Conforming (NC))
Budhabalanga	1	Baripada D/s	8.2	7.6	< 1.0	3500	1100	<1.8	C
	2	Balasure U/s	8.1	6.4	< 1.0	1700	490	NA	C
	3	Balasure D/s	8.3	7.6	< 1.0	1300	330	NA	C
	4	Hatiagond (Sona)	8.3	6.8	< 1.0	490	130	NA	C
<b>Bathing Water Quality (MOEF Notification G.S.R. No. 742(E) Dt. 25.09.2000)</b>			<b>6.5-8.5</b>	<b>5.0</b>	<b>3.0</b>	<b>-</b>	<b>500 (D) 2500 (P)</b>	<b>100 (D) 500 (P)</b>	<b>-</b>

NA : Not analysed

D : Desirable P : Permissible

**(G) Bahuda River system**

Name of River	Sl. No.	Name of Monitoring Station	pH	DO, mg/L	BOD, mg/L	TC, MPN/100 mL	FC, MPN/100 mL	FS, MPN/100 mL	Water Quality Status (Conforming (C)/ Non-Conforming (NC))
Bahuda	1	Damodarpally	8.5	7.5	1.3	1700	790	NA	C
<b>Bathing Water Quality (MOEF Notification G.S.R. No. 742(E) Dt. 25.09.2000)</b>			6.5-8.5	5.0	3.0	-	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	7.4	7.2	< 1.0	1300	330	NA	C
	2	Jayjkaypur D/s	8.1	6.2	< 1.0	1700	790	4	C
	3	Rayagada D/s	7.9	7.1	1.1	2200	390	<1.8	C

**(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	7.9	7.3	< 1.0	1100	140	NA	C
	2	Gunupur	8.0	7.4	< 1.0	1700	700	NA	C

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	8.3	6.9	< 1.0	1300	490	NA	C

**(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	8.2	7.3	< 1.0	2400	1100	NA	C

## Monthly Progress Report on Hon'ble NGT O.A. NO.606/2018 for the month of May - 2021

### 5. Measures taken for

#### A. Control of Illegal Groundwater Abstraction - Yes

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

#### B. River Catchment/ Basin Management - Yes

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

#### C. Flood Plain Zone Protection - Yes

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

#### 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 - Yes

Rain water harvesting.

#### Rooftop Rainwater Harvesting Structures (RRHS)

	<u>Govt</u>	<u>Private</u>	
2018-19	358 nos.	9438 nos.	( in 11 towns of 9 districts)
2019-20	Nil	Nil	
2020-21	300 Nos	6000 Nos	



(Note: A provision of Rs. 37 crores which was kept for construction of RRHS during the FY, 2020-21 has been withdrawn due to non-approval by EPC and physical achievement during the current FY is NIL)

2021-22 Nil Nil

**Ground Water Recharge**

i) Through Wells (recharge shaft on Tanks and pond)	2019-20	179 nos (completed)
	2020-21	65 nos. taken up in 11 districts, out of which 65 Nos. have been completed.
	2021-22	100 nos. taken up in 11 districts. Progress during the month of May is Nil

**ii) Through Check dams**

up to 03/2020	15604 nos. in 30 districts ( completed since inception of the scheme in 2010-11)
up to 3/2021,	15833 nos. in 30 districts (completed since inception of the scheme in 2010-11. A provision of Rs. 67 crores has been kept for construction of check dams in 30 districts during the FY 2020-21)
up to 05/2021	15840 nos. in 30 districts ( completed since inception of the scheme in 2010-11)

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

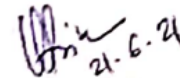
Setting up of Bio-diversity parks will be taken up with the help of Forest & Env. Deptt.

1094699 nos. of sapling and seedling 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)

In 2020-21, green belts will be created on the identified vacant areas/flood plains on the bank of the river stretches with the help of F & E Deptt.

**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.

 21.6.21

Director, Climate Event

Forecasting & Management

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**1. Name of the Polluted River Stretch :- Gangua Nalla (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 (1 <sup>st</sup> July to 15 <sup>th</sup> Nov). and Rabi crop (1 <sup>st</sup> week of January to 15 <sup>th</sup> 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  2019-20	RRHS of 131 nos in Govt. Buildings & 4942 nos. in Private Buildings completed in Bhubaneswar. Nil	Bhubaneswar town

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
		Ground Water Recharge through construction of Recharge shaft in tanks and ponds	2020-21 2019-20 2020-21	20 nos in Govt. buildings and 400 nos in private buildings will be constructed in Khurdha Dist. 9 nos	Provision for Rs. 37 crores has been kept for the year 2020-21  In Khurdha Dist.  In Khurdha Dist.
		Construction of Check Dam.	2019-20  2020-21(up to May -2021)	534 nos. of Check Dams completed up to March 2020 in Khurdha Dist.  543 nos. of Check Dams completed up to May-2021 in Khurdha Dist.	   Provision for Rs. 67 crores has been kept for the year 2020-21.
XVII	Demarcation of Flood Plain & removal of illegal encroachments:	Proposal for construction of a cross regulator at the off taking point ofGangua Nalla to divert the entire flood discharge of Chandaka catchment toKuakhia 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.	128 <sup>th</sup> TAC of DoWR has approved the construction of cross regulator.		

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:	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.	In 2019, 60 Cusecs released. Water released to Gangua Nalla from Daya West Branch Canal from 16.02.2020 to 26.02.2020 with maximum release of 77 cusecs on 21.02.2020. No water has been released to Gangua Nalla from Daya West Branch Canal from 01.05.2021 to 31.05.2021.		.
XIX	Plantation activities along the river:	4900 seeding has been sown along the drainage canals by Khurdha Drainage Division during monsoon of 2018. In 2020-21, green belts will be created on the identified vacant areas/flood plains on the bank of the river stretches with the help of F&E Deptt.	During Monsoon 2018.	1979 Nos. of plants are alive.	
XX	Development of bio-diversity park:	Development of bio-diversity parks will be taken up with the help of Forest & Env. Deptt.	-	-	

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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 (1 <sup>st</sup> July to 15 <sup>th</sup> Nov). and Rabi crop (1 <sup>st</sup> week of January to 15 <sup>th</sup> of May).	Rotational water supply is maintained in Kharif & Rabi crops.	

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
XVI	Rainwater harvesting	Construction of Rooftop Rainwater Harvesting Structure (RRHS) in Govt. and Private Building in towns of Odisha.  Ground Water Recharge through construction of Recharge shaft in tanks and ponds  Construction of Check Dam.	2014-15 to 2018-19  2019-20 2020-21  2019-20 2020-21  2019-20  2020-21(up to May - 2021)	RRHS of 131 nos in Govt. Buildings & 4942 nos. in Private Buildings completed in Bhubaneswar. Nil 20 nos in Govt. buildings and 400 nos in private buildings will be constructed in Khurdha Dist. 9 nos Programmed nil 534 nos. of Check Dams completed up to March 2020 in Khurdha Dist. 543 nos. of Check Dams completed up to May-2021 in Khurdha Dist.	Bhubaneswar town   Provision for Rs. 37 crores has been kept for the year 2020-21  In Khurdha Dist. In Khurdha Dist.  Provision for Rs. 67 crores has been kept for the year 2020-21.
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.			

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:	11865 seeding has been sown along the canal colony office premises by Prachi Division during Monsoon-2018  In 2020-21, green belts will be created on the identified vacant areas/flood plains on the bank of the river stretches with the help of F&E Deptt.	Monsoon 2018.	-	By Prachi Division Bhubaneswar
XX	Development of bio-diversity park:	Development of bio-diversity parks will be taken up with the help of Forest & Env. Deptt.	-	-	

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**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:				



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
XVI	Rainwater harvesting	Construction of Rooftop Rainwater Harvesting Structure (RRHS) in Govt. and Private Building in towns of Odisha.	2014-15 to 2018-19  2019-20  2020-21	RRHS of 7nos in Govt. Buildings & 76 nos. in Private Buildings completed Nil	Rourkela town
		Ground Water Recharge through construction of Recharge shaft in tanks and ponds	2019-20 2020-21	4nos	In Sundargarh Dist.
		Construction of Check Dam.	2019-20  2020-21(up to May-2021)	742 nos. of Check Dams completed up to March 2020 in Sundargarh Dist.  742 nos. of Check Dams completed up to May-21 in Sundargarh Dist.	In Sundargarh Dist.  Provision for Rs. 67 crores has been kept for the year 2020-21.

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 sapling and seeding has been sown along the drainage canals by Sundergarh Irr. Division & 17944 nos. of sapling and seeding have been sown along the canal by Rukura Canal Division during monsoon of 2018.  In 2020-21, green belts will be created on the identified vacant areas/flood plains on the bank of the river stretches with the help of F&E Deptt.	Monsoon 2018.	-	By Sundargarh Irr. Division and Rukura Canal Division, Rourkela.
XX	Development of bio-diversity park:	Development of bio-diversity parks will be taken up with the help of Forest & Env. Deptt.	-	-	

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**4. Name of the Polluted River Stretch :- Gurudih Nallah (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  2019-2020	RRHS of 7nosin Govt. Buildings &76 nos. in Private Buildings completed  Nil	Rourkela town

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
		Ground Water Recharge through construction of Recharge shaft in tanks and ponds	2020-21 2019-20 2020-21	12nos in Govt. buildings and 160nos in private buildings will be constructed in Sundargarh Dist. 4nos	Provision for Rs. 37 crores has been kept for the year 2020-21  In Sundargarh Dist.  In Sundargarh Dist.
		Construction of Check Dam.	2019-20 2020-21(up to May-2021)	742 nos. of Check Dams completed up to March 2020 in Sundargarh Dist.  742 nos. of Check Dams completed up to May-2021 in Sundargarh Dist.	    Provision for Rs. 67 crores has been kept for the year 2020-21.
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.			

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:	27373 nos. of sapling and seeding has been sown along the drainage canals by SundergarhIrr. Division & 17944 nos. of sapling and seeding have been sown along the canal by Rukura Canal Division during monsoon of 2018.  In 2020-21, green belts will be created on the identified vacant areas/flood plains on the bank of the river stretches with the help of F&E Deptt.	Monsoon 2018.	-	By SundergarhIrr. Division and Rukura Canal Division, Rourkela.
XX	Development of bio-diversity park:	Development of bio-diversity parks will be taken up with the help of Forest & Env. Deptt.	-	-	

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**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:				

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
XVI	Rainwater harvesting	Construction of Rooftop Rainwater Harvesting Structure (RRHS) in Govt. and Private Building in towns of Odisha.	2014-15 to 2018-19	RRHS of 34 nos in Govt. Buildings & 529 nos. in Private Buildings completed	Puri town
			2019-20	Nil	
			2020-21	12 nos in Govt. buildings and 160 nos in private buildings will be constructed in Puri Dist.	Provision for Rs. 37 crores has been kept for the year 2020-21
		Ground Water Recharge through construction of Recharge shaft in tanks and ponds	2019-20	Nil	In Puri Dist.
			2020-21	Constructed Nil	In Puri Dist.
		Construction of Check Dam.	2019-20	118 nos. of Check Dams completed up to March 2020 in Puri Dist.	
			2020-21(up to May - 2021)	142 nos. of Check Dams completed up to May-2021 in Puri Dist.	Provision for Rs. 67 crores has been kept for the year 2020-21.

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 sapling has been sown along the canal colony, office premises by Puri Irr. Division during monsoon of 2018.  In 2020-21, green belts will be created on the identified vacant areas/flood plains on the bank of the river stretches with the help of F&E Deptt.	Monsoon 2018.		By Puri Irr. Division, Puri
XX	Development of bio-diversity park:	Development of bio-diversity parks will be taken up with the help of Forest & Env. Deptt.	-	-	



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

SL NO.	Key Components of Proposed Action Plan for restoration of identified polluted river stretch in the state	Proposed Achievable Target	Proposed Time Targets for compliance	Present Status or pendency in terms of %age	Remarks
1	2	3	4	5	6
XIV	Ground Water regulation:	Govt. of Odisha has formulated an act for regulation for groundwater namely "The Odisha Ground Water (Regulation, Development and Management) Act, 2011". Central Ground Water Board (CGWB) & District Level Evaluation Committee (DLEC) strictly control the ground water abstraction by the industries. 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:				

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
XVI	Rainwater harvesting	Construction of Rooftop Rainwater Harvesting Structure (RRHS) in Govt. and Private Building in towns of Odisha.	2019-20 2020-21	Nil Nil (Programmed) in Rayagada Dist.	Provision for Rs. 37 crores has been kept for the year 2020-21
		Ground Water Recharge through construction of Recharge shaft in tanks and ponds	2019-20 2020-21 (Provision)	Nil Nil.(Programmed)	In Rayagada Dist. In Rayagada Dist.
		Construction of Check Dam.	2019-20 2020-21(up to May-2021)	833 nos of Check Dams completed up to March-2020 in Rayagada Dist. 833 nos of Check Dams completed up to May -2021 in Rayagada Dist.	Provision for Rs. 67 crores has been kept for the year 2020-21.
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.			

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:	5160 nos of sapling has been sown in Rayagada Dist. By Rayagada Minor Division during monsoon of 2018.  In 2020-21, green belts will be created on the identified vacant areas/flood plains on the bank of the river stretches with the help of F&E Deptt.	Monsoon 2018.		By Rayagada Minor Irrigation Divn.
XX	Development of bio-diversity park:	Development of bio-diversity parks will be taken up with the help of Forest & Env. Deptt.	-	-	

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**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 riverKathajodi (from 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
XVI	Rainwater harvesting	Construction of Rooftop Rainwater Harvesting Structure (RRHS) in Govt. and Private Building in towns of Odisha.	2014-15 to 2018-19	RRHS of 07nos in Govt. Buildings & 123 nos. in Private Buildings completed	Cuttack town
			2019-20	Nil	
			2020-21	12nos in Govt. buildings and 240nos in private buildings will be constructed in Cuttack Dist.	Provision for Rs. 37 crores has been kept for the year 2020-21
		Ground Water Recharge through construction of Recharge shaft in tanks and ponds	2019-20	05nos	In Cuttack Dist.
			2020-21 (Provision)	Nil	In Cuttack Dist.
		Construction of Check Dam.	2019-20	699 nos. of Check Dams completed up to March 2020 in Cuttack Dist.	
			2020-21(up to May - 2021)	706 nos. of Check Dams completed up to May-2021 in Cuttack Dist.	Provision for Rs. 67 crores has been kept for the year 2020-21.

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 sapling has been sown along the canal colony, office premises by Mahanadi South Division-1 & 10610 nos of sapling has been sown along the canal colony, office premises by Mahanadi Barrage Division, Cuttack during monsoon of 2018.  In 2020-21, green belts will be created on the identified vacant areas/flood plains on the bank of the river stretches with the help of F&E Deptt.	Monsoon 2018.		By Mahanadi South Division-1 & by Mahanadi Barrage Division Cuttack.
XX	Development of bio-diversity park:	Development of bio-diversity parks will be taken up with the help of Forest & Env. Deptt.	-	-	

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

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 KakatpurBranch Canal system recharges the ground water as well as river or drain.	In every year, during Kharif crop (1 <sup>st</sup> July to 15 <sup>th</sup> Nov). and Rabi crop (1 <sup>st</sup> week of January to 15 <sup>th</sup> of May).	Rotational water supply is maintained in Kharif & Rabi crops.	

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
XVI	Rainwater harvesting	Construction of Rooftop Rainwater Harvesting Structure (RRHS) in Govt. and Private Building in towns of Odisha.  Ground Water Recharge through construction of Recharge shaft in tanks and ponds  Construction of Check Dam.	2014-15 to 2018-19  2019-20 2020-21  2019-20 2020-21 (Provision) 2019-20  2020-21(up to May - 2021)	RRHS of 07nos in Govt. Buildings & 123 nos. in Private Buildings completed Nil 12 nos in Govt. buildings and 240nos in private buildings will be constructed in Cuttack Dist. 05 nos Nil 699 nos. of Check Dams completed up to March 2020 in Cuttack Dist. 706 nos. of Check Dams completed up to May-2021 in Cuttack Dist.	Bhubaneswar town  Provision for Rs. 37 crores has been kept for the year 2020-21  In Cuttack Dist. In Cuttack Dist.  Provision for Rs. 67 crores has been kept for the year 2020-21.
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.			



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 nos of sapling has been sown along the canal colony, office premises by Mahanadi South Division-1 & 4260 nos of sapling & seeding have been sown along the canal colony, office premises by Jagatsinghpur Irr. Division, Jagatsinghpur during monsoon of 2018.  In 2020-21, green belts will be created on the identified vacant areas/flood plains on the bank of the river stretches with the help of F&E Deptt.	Monsoon 2018.		By Mahanadi South Division-1 & by Jagatsinghpur Irr. Division Jagatsinghpur
XX	Development of bio-diversity park:	Development of bio-diversity parks will be taken up with the help of Forest & Env. Deptt.	-	-	

**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 – May - 2021**

**9. Name of the Polluted River Stretch :- Ratnachira (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 Sakhigopal Branch Canal, Puri Main Canal & Gobardhanpur Barrage recharges the ground water as well as river or drain.	In every year, during Kharif crop (1 <sup>st</sup> July to 15 <sup>th</sup> Nov). and Rabi crop (1 <sup>st</sup> week of January to 15 <sup>th</sup> of May).	Rotational water supply is maintained in Kharif & Rabi crops.	

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
XVI	Rainwater harvesting	Construction of Rooftop Rainwater Harvesting Structure (RRHS) in Govt. and Private Building in towns of Odisha.	2014-15 to 2018-19	RRHS of 34nos in Govt. Buildings & 529 nos. in Private Buildings completed.	Puri town
			2019-20	Nil	
			2020-21	12nos in Govt. buildings and 160 nos in private buildings will be constructed in Puri Dist.	Provision for Rs. 37 crores has been kept for the year 2020-21
		Ground Water Recharge through construction of Recharge shaft in tanks and ponds	2019-20	Nil	In Puri Dist.
			2020-21	Constructed Nil	In Puri Dist.
		Construction of Check Dam.	2019-20	118nos. of Check Dams completed up to March 2020 in Puri Dist.	
			2020-21(up to May - 2021)	142 nos. of Check Dams completed up to May-2021 in Puri Dist.	Provision for Rs. 67 crores has been kept for the year 2020-21.

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
XVI	Rainwater harvesting	Construction of Rooftop Rainwater Harvesting Structure (RRHS) in Govt. and Private Building in towns of Odisha.	2014-15 to 2018-19  2019-20 2020-21	RRHS of 34nos in Govt. Buildings & 529 nos. in Private Buildings completed. Nil	Puri town  Provision for Rs. 37 crores has been kept for the year 2020-21
		Ground Water Recharge through construction of Recharge shaft in tanks and ponds	2019-20 2020-21	Nil Constructed Nil	In Puri Dist. In Puri Dist.
		Construction of Check Dam.	2019-20  2020-21 (up to May - 2021)	118nos. of Check Dams completed up to March 2020 in Puri Dist.  142 nos. of Check Dams completed up to May-2021 in Puri Dist.	  Provision for Rs. 67 crores has been kept for the year 2020-21.

*J. Nayak*  
21/08/21  
Director,  
F.F., F.M. & GIS

*[Signature]*



**Orissa Water Supply & Sewerage Board**

(A Govt. of Odisha Undertaking)

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

No. 1294 dt. 15.4.2021  
W-02/2021

To  
The Director,  
Environment-cum-Special Secretary to Govt.  
Odisha, Bhubaneswar

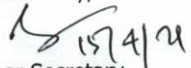
Sub.: Furnishing progress report for the month of March, 2021 in connection with compliances to various orders & directions passed by the Hon'ble NGT in OA No. 673/2018, OA No.606/2018 & OA No. 593/2017 for the 3<sup>rd</sup> Review Meeting of EMC scheduled to be held on 19.4.2021

Ref: Letter No.7360 dated 8.4.2021 of F&E Department.

Sir,  
With reference to the above, the progress report in connection with compliances to various orders & directions passed by the Hon'ble NGT in OA No. 673/2018, OA No.606/2018 & OA No. 593/2017 for the month of March, 2021 are furnished herewith for the 3<sup>rd</sup> Review Meeting of Environment Monitoring Cell (EMC) which is scheduled to be held on 19.4.2021 at 12.45 PM.

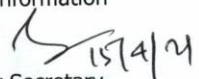
Encl.: As above.

Yours faithfully,

  
15/4/21  
Member Secretary

Memo No. 1295 dt. 15.4.2021  
Copy with copy of enclosure forwarded to the Addl. Secretary to Government, H&UD Department/ Member Secretary, State Pollution Control Board, Bhubaneswar for information and necessary action.

Encl.: As above.

  
15/4/21  
Member Secretary

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

(As on March 2021)

Sl.	Action Point	A	B	C= B-A	D
		Existing Status	Desired/ Projected	Gap	Timeline
1.	Estimated Sewage Generation (In MLD)	Bhubaneswar : - 108.97	-	-	-
		Cuttack : 79.08			
		Sambalpur : 43.51			
		Rourkela : 35.65			
		Puri : 26.05			
		Talcher : 5.29			
		<b>Total : 298.55</b>			
2.	Treatment Capacity (In MLD)				
a.	STP	Bhubaneswar : 135.50	183.50	48	June,2021
		Cuttack : 69	85	16	June, 2021
		Sambalpur : -	40	40	Dec.-2021
		Rourkela : 40	40	-	-
		Puri : 20	20	-	-
		Talcher : 2	2	-	-
				<b>Total : 266.50</b>	<b>370.50</b>
b.	Septage	<b>1017 KLD (1.017 MLD)</b>	<b>2037 KLD</b>	<b>1020 KLD</b>	<b>2021-22</b>
3.	Status of Sewerage System (in KM)	Bhubaneswar : 871.64	1031.97	160.33	December 2021
		Cuttack : 383.49	450.20	70.12	December 2021
		Sambalpur : 91.91	253.00	162.43	December 2021
		Rourkela : 166.02	235.00	75.57	June 2021
		Puri : 128.00	128.00	-	-
				<b>Total: 1641.06 km</b>	<b>2098.17 km</b>
4.	No. of STP	Bhubaneswar - 4	5	1	December 2021
		Cuttack : 2	3	1	December 2021
		Sambalpur : -	1	1	Dec. 2021
		Rourkela : 1	1	-	-
		Puri : 2	2	-	-
		Talcher : 1	1	-	-
		<b>Total : 10</b>	<b>13</b>	<b>3</b>	
5.	Has bulk users identified for reuse of treated water such as Industrial Clusters, Metro Rail, India Railways, Infrastructure Projects, Agriculture, Bus Depots and PWD? (Y/N)	Consultation process is underway with respective ULBs , local industries , Govt. & Pvt. Institutions for identifying the bulk users of water & the quantity of water demand by these users. After completion of the above process, revised action plan will be submitted for utilization of treated waste water presently generated from the functioning of STPs as well as from future STPs.			
6.	Quantity of treated wastewater being used by Bulk User ( in MLD)				
	Industrial Clusters	-	-	-	-
	Metro Rail	-	-	-	-
	Indian Railways	-	-	-	-
	Infrastructure Projects	-	-	-	-
	Agriculture	-	-	-	-
	Other (If any specify)	-	-	-	-
	PWD	-	-	-	-
7.	No. of water Aquatic sources (Lakes, ponds etc.) being developed through treated waste water.	-	-	-	-

Sl. No.	Issue	Remarks
1	a	Quantity of Sewage generated in the State (In MLD)
		Bhubaneswar 100.97
		Cuttack 79.08
		Sambalpur 43.51
		Rourkela 35.65
		Puri 20.05
		Talcher 5.29
		<b>Total 298.55</b>
		Bhubaneswar 19
		Cuttack 61.54
		Puri 16
		Talcher 2
		<b>Total 98.54</b>
		Bhubaneswar 871.64
		Cuttack 383.49
		Sambalpur 91.91
		Rourkela 166.02
		Puri 128.00
		<b>Total 1641.06</b>
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
		No
		33.00 %
		i) Bhubaneswar : during Dec.-2021
		ii) Cuttack : during June-2021.
		iii) Sambalpur- during Dec.-2021
		iv) Rourkela- during June-2021
		v) Talcher- during Dec- 2021
		Enclosed separately
		No
		Odisha is having only one full fledged sewerage system at

Sl. No.	Issue	Remarks
	collected through the existing sewerage network ?	Puri where 70% of sewage is collected through the 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	Yes
	b Provide details on the pollution load due to these drains	Information is under collection
	c Has in-situ treatment of wastewater being carried out in all such drains for reduction of pollution load?	No
	d If not, then please indicate the number of drains in which in-situ treatment of wastewater has commenced.	Nil
	e If not, then please provide the timeframe within which in –situ treatment if wastewater shall be carried out in all such drains for reduction of pollution load.	At present proven technology is not available for in-site treatment of wastewater in drains. Odisha is working with different organisations to develop viable technology for treatment of wastewater in drains.
9	a Have all bulk users for reuse of wastewater been identified?	Yes
	b Is all treated wastewater from the STPs being reused for different purposes?	A part of the wastewater from STP at Cuttack is re-used for plants & lawns developed both inside & outside the plant.
	c If not, then what is current percentage of wastewater being reused?	5% of wastewater is being reused in Cuttack city treated through 36 MLD STP.
	d If not, then please provide the timeframe within which all treated wastewater from STP shall be reused for different purposes.	i) STP at Puri is located outside the City area where there is no potential for utilization of treated wastewater since there is no industry nearby to utilize the treated wastewater. The agricultural lands near the plant do not require water since they receive enough water from canal and other sources. ii) There are no industries nearby to utilize treated wastewater from Cuttack STP. However, effort is being made to utilize the water in the parks and road side plantation in Cuttack Municipal Corporation Area



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No. 694 Date 27/7/2020

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

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

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

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,  
*[Signature]*  
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 & Adl. 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.

*[Signature]*  
Member Secretary, 21/07/20

Encl: As above.

Memo No. 3299 /OWSSB Date. 22 07 2020  
Copy forwarded to the EIC, OISIP, JICA, Cuttack for information and necessary action with reference to the letter No. 12491 dated 14.07.2020 of H&UD Department.

*[Signature]*  
Member Secretary, 21/07/20

Memo No. 3300 /OWSSB Date. 22 07 2020  
Copy forwarded to the Project Director, PMC, OWSSB, Cuttack for information and necessary action.

*[Signature]*  
Member Secretary, 21/07/20

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**COMPLIANCE OF THE ORDER DTD. 22.06.2020 PASSED BY THE HON'BLE NGT IN  
OA NO. 673/2018 & ACTION TAKEN BY ODISHA GOVERNMENT FOR  
RESTORATION OF POLLUTED STRETCH OF RIVER KATHAJODI**

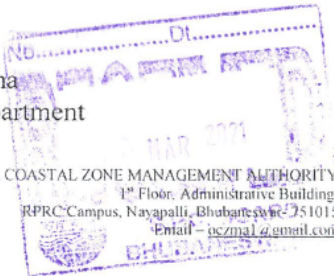
River Kathajodi is getting polluted due to discharge of wastewater from Cuttack City. In order to prevent pollution of Kathajodi River, 2 Nos. of Sewage Treatment Plants have been constructed and one STP is under construction with loan assistance from JICA. The quantity of sewage generated and treatment proposed is as below.

- Quantity of sewage generated from city : 65.37 MLD  
at present
- Present quantity of sewage treated : 45 MLD (33 MLD at Matagajpur & 12  
MLD at the new 36 MLD capacity STP  
at CDA, Cuttack)
- One 33 MLD Capacity STP using (Wastewater stabilization pond technology) is in  
operation since 2006 at Matagajpur, Cuttack to treat waste water from two large  
drains flowing to River Kathajodi. The STP is now under renovation and likely to be  
made functional by December, 2020.
- One 36 MLD capacity STP based on ASP technology has been commissioned at  
CDA, Cuttack since December, 2018.
- One 16 MLD capacity STP based on ASP technology is under construction (81.72%  
completed) at Matagajpur. The STP is planned to be commissioned during  
December, 2020.
- After completion construction of 16 MLD STP at matagajpur, the entire sewage  
generated from Cuttack city can be treated, thereby pollution of Kathajodi river  
stretch near Cuttack can be prevented.
- The status of sewerage network & drainage network in Cuttack City is furnished  
herewith as annexure.

Government of Odisha  
Forest & Environment Department

\*\*\*\*\*

ODISHA COASTAL ZONE MANAGEMENT AUTHORITY  
1<sup>st</sup> Floor, Administrative Building,  
RPRC Campus, Nayapalli, Bhubaneswar-751015  
Email - oczma1@gmail.com



No. 72 /OCZMA Dt. 03.03.2021

From  
Sri Susanta Nanda, IFS  
Director, Environment-cum-  
Special Secretary to Govt.  
and Member Secretary, OCZMA

*SEE-3 (RND)*  
To  
Dr. Prashant Gargava,  
Member Secretary,  
Central Pollution Control Board,  
Parivesh Bhawan, East Atrjun Nagar, Delhi-110032

Sub: Action plan to address pollution from coastal towns in the state-reg.

Ref: OSPCB Letter no. 896/IND-IV-BW/2824(Pt.VI)/19-20 Dt. 20.01.2021

Sir,  
With reference to the above cited subjects, I am enclosing herewith the Coastal Zone Management Plan maps of coastal urban areas of Odisha, prepared based on CRZ Notification, 2011 approved by MoEF& CC as action plan for restoration of coastal stretches.

Encl: As above.

Yours faithfully,

*Handwritten signature and date 12/3*

*Handwritten signature and date 03/03/21*  
Director, Environment-cum-  
Special Secretary to Govt. and  
Member Secretary, OCZMA

*CES*  
*AP*  
*19/3/21*  
Memo No. 73 /OCZMA

Dt 03.03.2021

Copy forwarded to Sri S.K. Srivastava, Director, National River Conservation Directorate (NRCD), Ministry of Jal Shakti, Department of Water Resources, Government of India for information.

*Joint*  
*SES (Lab)*  
*Handwritten signature and date 17/3*  
Memo No. 74 /OCZMA

Dt 03.03.2021

Copy forwarded to the Member Secretary, State Pollution Control Board, Odisha, Paribesh Bhawan, A/118, Nilakantha Nagar, Unit-VIII, Bhubaneswar-751012 for information.

*Handwritten signature and date 03/03/21*  
Director, Environment-cum-  
Special Secretary to Govt. and  
Member Secretary, OCZMA

*ES (RND)*  
*Handwritten signature and date 18/3*

## Regulation of mining activities in Odisha

### Overview of mining activities in Odisha

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

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

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

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

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

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

5.	Sukinda ( <i>Jajpur</i> )	Chromite		21	81%
6.	Sundargarh ( <i>Sundargarh</i> )	Limestone & Dolomite	22	25	88%
7.	Raygada-Koraput ( <i>Raygad and, Koraput</i> )	Bauxite	05	07	71%
<b>Total</b>			<b>202</b>	<b>249</b>	<b>81%</b>

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

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

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

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

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

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

The screenshot displays the National Mission for Clean Ganga website interface. At the top, the header includes the organization's name: "National Mission for Clean Ganga (Registered Society, Under Act 1860) Ministry of Jal Shakti Department of Water Resources, River Development & Ganga Rejuvenation Government of India". The navigation menu contains "Home", "About Us", "Grievance Report", "FAQ", "Contact Us", and "Ganga Rejuvenation". The main content area is titled "Grievance Report" and features three filter buttons: "Grievance till Date: 0", "Pending till Date: 0", and "Disposed till Date: 0". Below these filters, a list of grievance reports is displayed with columns for "Date From (DD/MM/YYYY)", "Date To (DD/MM/YYYY)", and "Status". The first entry shows "01/05/2021" for both dates and "Invalid Date" for the status. A "SEARCH" button is located below the list. A blue box highlights the "Grievance Report" section, which contains the following instructions:

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 NIMCG.

Below the instructions, there are input fields for "Date From (DD/MM/YYYY)" (01/05/2021) and "Date To (DD/MM/YYYY)" (31/05/2021), a "SEARCH" button, and an "Excel Export" button with an "Export" sub-button. The bottom of the page features "Our Location" (a map of New Delhi) and "Contact us" information: "National Mission for Clean Ganga, Ministry of Jal Shakti (Department of Water Resources, River Development & Ganga Rejuvenation), Government of India 1st Floor, Major Dhyan Chand National Stadium, India Gate, New Delhi - 110002. Phone: +91-11-23072900-901. Email: admin(dof)nmcg(at)nic(dot)in".