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STATE POLLUTION CONTROL BOARD, ODISHA
(DEPARTMENT OF FOREST & ENVIRONMENT, GOVERNMENT OF ODISHA)
Parivesh Bhawan, A/11B, Bilakantia Nagar, Unit - VIII
Bhubaneswar - 751 012

6576

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

23.4.2021

To

Dr. D. P. Mathuria, Executive Director,
National Mission for Clean Ganga,
Department of Water Resources, River Development & Ganga Rejuvenation,
Ministry of Jal Shakti, 1st Floor, Major Dhyan Chand National Stadium,
India Gate, New Delhi - 110 002

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

Ref: (1) Email dtd. 08.10.2020

(2) Email dtd. 05.04.2021

Sir,

In inviting reference to above subject, the Monthly Progress Report for the month of March, 2021 as per the Revised MPR Format in compliance to the Minutes of the 9th Central Monitoring Committee is enclosed herewith for your kind information and necessary action. Further, this is to intimate that the MPR for January, 2021 has already been submitted by the Office vide letter No. 1155 dated 04.03.2021.

Encl : As above


Yours faithfully,


Member Secretary

Memo No. 6576 Dt. 23.4.2021

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


Member Secretary

Memo No. 6577 Dt. 23.4.2021

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

Encl : As above


Member Secretary



FAX : 2562822/2560955
Tel : 2564033/2563924
EPABX : 2561909/2562847
E-mail: paribesh@sancharnet.in
Website: www.ospcboard.org

STATE POLLUTION CONTROL BOARD, ODISHA
[DEPARTMENT OF FOREST & ENVIRONMENT, GOVERNMENT OF ODISHA]
Paribesh Bhawan, A/118, Nilakantha Nagar, Unit - VIII
Bhubaneswar - 751 012

No. 3355

Ind. VI-2824 (Pt. VI)/19-20

Dt. 04.03.21

To

Dr. D. P. Mathuria, Executive Director,
National Mission for Clean Ganga,
Department of Water Resources, River Development & Ganga Rejuvenation,
Ministry of Jal Shakti, 1st Floor, Major Dhyan Chand National Stadium,
India Gate, New Delhi - 110 002

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

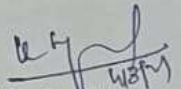
Ref: Email dtd. 08.10.2020

Sir,

In inviting reference to above subject, the Monthly Progress Report for the month of January, 2021 as per the Revised MPR Format in compliance to the Proceedings of the 8th Central Monitoring Committee is enclosed herewith for your kind information and necessary action.

Yours faithfully,

Encl : As above


Member Secretary

Memo No. 3356

Dt. 04.03.21

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

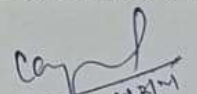

Member Secretary

Memo No. 3357

Dt. 04.03.21

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

Encl : As above


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 March, 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: 98.54 MLD
- MLD of sewage being treated through Alternate technology: 1017 (1.017 MLD)
 (At present 1017 KLD (1.017 MLD) septage is being treated through Septage Treatment Plants in 45 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
	Cuttack				
1	CDA-Bidanasi area	36 MLD	18.54 MLD	O & M by OISIP, JICA, Cuttack	Running Smoothly
2	Mattagajpur	33 MLD	33 MLD	O & M by PHEO	Running Smoothly
	Puri				
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
	Talcher				
5	Mandapal	2 MLD	2 MLD	O & M by PHEO	Running Smoothly
	Bhubaneswar				
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		
	Rourkela				
10	Ruptala Balughat	40 MLD	-	Commissioned since Dec. 2020	-
Total : 10 STPs		266.50 MLD	88.54 MLD		

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.)	December, 2021
2	Mattagajpur, Cuttack	16 MLD	79.06 % completed	-	June, 2021
3	CDA-Bidanasi area, Cuttack	36 MLD	Operating	90.18 % (13528/15000 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	68.34% completed	0 % ((0/52756 Nos.)	June, 2021
8	Ruptala Balughat, Rourkela	40 MLD	Commissi oned	0.15 % (102/ 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 & 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 : 7300
- No. of water polluting industries in the State: 1228
- Quantity of effluent generated from the industries in MLD: 803.18 MLD
(For treatment)
- Quantity of Hazardous Sludge generated from the Industries in TPD:141.9 TPD
- Number of industrial units having ETPs: 1199
- 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 : 1199 Numbers, 1025 MLD
Under Construction : Nil
Proposed : Nil
Total : 1199 Numbers, 1025 MLD
- Compliance status of the ETPs:
 - As per the frequency of inspection norms vide Office Order 1081 dated 31.01.2020, ETPs of 260 numbers of Industries have been inspected for compliance status during March, 2021. Out of these, 248 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 29 number of units for operating without ETPs. During March, 2021, Show Cause Notice Issued to 12 number of Industries for non-compliance of ETPs.
- 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 : 1951 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)	174	831	74 %
Materials Recovery Facility (MRF)	155	738	73 %

- 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 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 Center (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 Center (MCC) : 174 Nos.(Capacity : 831 TPD)
 - Number of Functional Material Recovery Facilities (MRF) : 155 Nos.. (Capacity: 738 TPD)
 - MSW processing facilities Under Construction:
 - Composting Facility - Micro Composting Centres (MCC): 73 Nos. (Capacity : 321 TPD)
 - Material Recovery Facilities (MRF): 22 Nos. (Capacity: 91 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 13th 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- Lakhapur, Dist- Jharsuguda (Obtained Term of Reference Only)

VIII. Plastic Waste Management:

- Total Plastic Waste generation: 115 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 achievement 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.
(ii)	Through Check Dams	Upto 03/2020	15604 Nos. in 30 districts (Completed since inception of the scheme in 2010-11)
		Upto 02/2021	15803 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.

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 nalla has been approved in 128th TAC of DOWR to divert the flood discharge of Chandaka catchment to Kuakhai river (Approximately 30% of flood water) through 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.



Orissa Water Supply & Sewerage Board

(A Govt. of Odisha Undertaking)

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

No. 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 3rd Review Meeting of EMC scheduled to be held on 19.4.2021

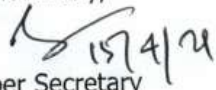
Ref: Letter No.7360 dated 8.4.2021 of F&E Department.

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 3rd 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

National Mission for Clean Ganga
Format for submission of Monthly Progress Report for the month of
March, 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:

I. 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	108.97
ii	Cuttack	79.08
iii	Sambalpur	43.51
iv	Rourkela	35.65
v.	Puri	20.05
vi	Talcher	5.29
	Total	298.55

III. Details of Sewage Treatment Plant

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

(p) Capacity Utilization of Existing STPs: 98.54 MLD

(q) MLD of Sewage being treated through alternative technology: At present 1017 KLD
 (1.017 MLD) septage is being treated through 45 nos. SeTPs.

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

(s) No. of Operational STPs: 10

(t) No. of Complying STPs: 10

(u) 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	Paikarapur	8	4		-do-

2		Cuttack				
	1	Matgajpur	33	33	O&M by PHEO	Running smoothly
	1	CDA	36	18.54	O&M by OISIP, JICA, Cuttack	-do-
3		Puri				
	1	Mangalaghat	15	11	O&M by PHEO	-do-
	1	Bankimuhan,	5	5		
4	1	Talcher, Mandapal	2	2	-do-	-do-
5	1	Rourkela	40	-	Commissioned since Dec.2020	-do-
Total	10		266.50	98.54		

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	68.34	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	79.06	-	June-2021
	1	CDA	36	Commissioned	90.18 % (13528/15000 nos.)	June-2021
3	1	Sambalpur	40	93	0% (0/80,582 Nos)	December 2021
4	1	Rourkela	40	Commissioned	0.15% (102/66029 nos.)	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&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

2

Tel -0674-2392104/2390147

e-mail : sanitationhud@gmail.com

Website: www.urbanodisha.gov.in



Government of Odisha

Housing & Urban Development Department

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

File No.: HUD-SANT-CASEOP-0003-2020 Letter No.: 8270 /HUD. Date: 16/4/2021

From

Kalyan Kumar Rath, OAS (SAG)
Additional Secretary to Government &
Additional Mission Director, SBM (Urban)

To

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

Sub: Submission of Monthly Progress Report for March,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 March, 2021 in the prescribed 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,

SKS
16.04.2021

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

Memo No. 8271 Date: 16/4/2021

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).

still
16.04.2021
Additional Secretary to Government &
Additional Mission Director, SBM (Urban)

MPR FOR THE MONTH OF MARCH-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: 1,951 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)	174	831	74%
Materials Recovery Facility (MRF)	155	738	73%

- 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 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, 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):174 Nos. (Capacity:831 TPD)
- ✓ Number of Functional Material Recovery Facilities (MRF):155 Nos. (Capacity: 738 TPD)

MSW processing facilities Under Construction:

- ✓ Composting Facility - Micro Composting Centers (MCC):73 Nos. (Capacity:321 TPD)
- ✓ Material Recovery Facilities (MRF):22 Nos. (Capacity:91 TPD)
- No. and area (in acres) of uncontrolled garbage dumpsites and Sanitary Landfills.
 - ✓ Garbage dumpsites: 9numbers (170Acre 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

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)	5	4.9	5	4.9	10	10	50%	49%	0	0	
2	Angul (M)	6.8	6.4	6.8	6.4	12	30	57%	21%	0	0	
3	Asika (NAC)	4.1	4	4.1	4	10	5	41%	80%	0	1	31-05-2021
4	Athagad (NAC)	2.3	2.2	1	2	1	2	100%	100%	2	0	31-05-2021
5	Athmallik (NAC)	1.9	1.7	1.9	1.7	5	5	38%	34%	0	0	
6	Attabira NAC	2.4	2.2	2	2	2	2	100%	100%	1	0	31-05-2021
7	Balangir (M)	17.3	11.6	5	5	5	5	100%	100%	2	0	31-05-2021
8	Balasore (M)	15.4	13.2	10	13.2	10	20	100%	66%	2	0	31-05-2021
9	Balimela (NAC)	1.5	1.4	1.5	1.4	4	5	38%	28%	0	0	
10	Balliguda NAC	2.4	2.2	2	2.2	2	3	100%	73%	0	0	
11	Balugaon (NAC)	2.3	2.2	2.3	2.2	3	3	77%	73%	0	0	
12	Banki (NAC)	2.4	2.1	2	2	2	2	100%	100%	0	0	
13	Banpur (NAC)	2.2	2.1	0	0	0	0	0%	0%	1	0	31-05-2021
14	Barbil (M)	8.6	7.9	8.6	7.9	15	20	57%	40%	0	0	
15	Bargarh (M)	13.2	11	10	11	10	14	100%	79%	1	1	31-05-2021
16	Baripada (M)	14.3	13.2	14.3	13.2	25	20	57%	66%	0	0	
17	Barpali (NAC)	3.8	3.7	3	3.7	3	10	100%	37%	1	0	31-05-2021
18	Basudebpur (M)	6.27	6.3	0	0	0	0	0%	0%	2	1	31-05-2021
19	Bellaguntha (NAC)	1.7	1.5	1.7	1.5	5	5	34%	30%	0	0	
20	Belpahar (M)	5	4.7	5	4.7	5	10	100%	47%	0	0	
21	Berhmapur (MC)	64	61	64	61	83	67	77%	91%	0	0	
22	Bhadrak (M)	13.5	12.6	3	10	3	10	100%	100%	1	0	31-05-2021
23	Bhanjanagar NAC	3.4	3.2	3.4	3.2	4	4	85%	80%	0	0	
24	Bhawanipatna (M)	8.7	8.2	3	5	3	5	100%	100%	1	0	31-05-2021
25	Bhuban (NAC)	2.8	2.7	2.8	2.7	6	6	47%	45%	0	0	
26	Bhubaneswar (MC)	161.24	159	36	5	36	5	100%	100%	26	2	31-05-2021
27	Bijepur (NAC)	1.96	1.8	1.96	1.8	2	10	98%	18%	0	0	
28	Binika (NAC)	2.1	1.9	2.1	1.9	3	3	70%	63%	0	0	
29	Biramitrapur (M)	4.3	4	4.3	3	5	3	86%	100%	0	0	
30	Boudhgarh (NAC)	2.9	2.6	2.9	2.6	5	3	58%	87%	0	0	
31	Brajarajnagar (M)	12.8	9.5	10	9.5	10	10	100%	95%	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	
32	Buguda (NAC)	2.3	2.1	2.3	2.1	5	5	46%	42%	0	0	
33	Byasanagar (M)	6.2	5.9	6.2	5.9	10	8	62%	74%	0	0	
34	Champua NAC	2.9	2.6	2.9	2.6	5	5	58%	52%	0	0	
35	Chandbali (NAC)	3.3	3	1	3	1	3	100%	100%	0	2	31-05-2021
36	Chhatrapur (NAC)	4	3.7	4	3.7	5	5	80%	74%	2	0	31-05-2021
37	Chikiti (NAC)	2.2	2	2.2	2	5	5	44%	40%	0	0	
38	Choudwar (M)	7.9	7.5	4	6	4	6	100%	100%	1	0	31-05-2021
39	Cuttack (MC)	108.9	103.4	31	10	31	10	100%	100%	6	0	31-05-2021
40	Daspalla NAC	3.4	3.2	3.4	2	5	2	68%	100%	0	0	
41	Deogarh (M)	3.4	3.2	3.4	3.2	5	5	68%	64%	0	0	
42	Dhamnagar (NAC)	3	2.8	3	2.8	4	4	75%	70%	0	0	
43	Dharmagarh NAC	2.6	2.5	2.6	2.5	3	3	87%	83%	0	0	
44	Dhenkanal (M)	11.3	10.7	11.3	10	13	10	87%	100%	0	0	
45	Digapahandi (NAC)	2.4	2	2.4	2	5	5	48%	40%	0	0	
46	G. Udayagiri (NAC)	1.97	2.1	1.97	2	3	2	66%	100%	0	0	
47	Ganjam (NAC)	1.7	1.4	1.7	1.4	5	5	34%	28%	0	0	
48	Gopalpur (NAC)	1.3	1.1	1.3	1.1	5	3	26%	37%	0	0	
49	Gudari (NAC)	1.2	1.1	1.2	1.1	2	2	60%	55%	0	0	
50	Gunupur (M)	4.4	3.5	4.4	2	10	2	44%	100%	0	0	
51	Hindol NAC	2.3	2	2	2	2	2	100%	100%	0	0	
52	Hinjilicut (M)	3.9	3.8	3.9	3.8	5	5	78%	76%	1	1	31-05-2021
53	Jagatsinghpur (M)	6.4	6.4	5	5	5	5	100%	100%	0	0	
54	Jajpur (M)	7	6.8	5	6.8	5	10	100%	68%	1	0	31-05-2021
55	Jaleswar (M)	3.9	3.8	3.9	3.8	5	4	78%	95%	0	0	
56	Jatani (M)	7.9	7.5	5	7.5	5	10	100%	75%	1	0	31-05-2021
57	Jeypore (M)	14.3	13.2	10	5	10	5	100%	100%	0	0	
58	Jharsuguda (M)	12.3	11.5	10	11.5	10	20	100%	58%	1	0	31-05-2021
59	Joda (M)	7.9	7.5	7.9	7.5	10	8	79%	94%	0	0	
60	Junagarh (NAC)	2.9	2.6	2.9	2	5	2	58%	100%	0	0	
61	Kabisurjyanagar (NAC)	2.3	2.2	2.3	2.2	5	5	46%	44%	0	0	
62	Kamakshyanagar (NAC)	2.9	2.6	2.9	2.6	3	3	97%	87%	0	0	
63	Kantabanji (NAC)	3.7	3.2	3.7	3.2	5	5	74%	64%	0	0	
64	Karanjia (NAC)	3	2.7	3	0	3	0	100%	0%	0	1	31-05-2021
65	Kashinagar (NAC)	1.4	1.3	1.4	1.3	3	5	47%	26%	0	0	
66	Kendrapara (M)	6.8	6.4	5	5	5	5	100%	100%	0	0	
67	Keonjharagarh (M)	8.5	8	8.5	8	10	8	85%	100%	0	0	
68	Kesinga (NAC)	2.8	2.6	2.8	2.6	5	3	56%	87%	0	0	
69	Khalikote (NAC)	2.4	2.3	2.4	2.3	5	5	48%	46%	0	0	
70	Khandapada (NAC)	1.6	1.1	1.6	1.1	5	5	32%	22%	0	0	
71	Khariar (NAC)	2.7	2.8	2.7	2.8	3	3	90%	93%	0	0	
72	Khariar Road (NAC)	2.6	2.2	2.6	2.2	3	4	87%	55%	0	0	
73	Khordha (M)	6.5	6.1	5	5	5	5	100%	100%	1	1	31-05-2021
74	Kodala (NAC)	2.48	2.3	2.48	2.3	5	5	50%	46%	0	0	
75	Konark (NAC)	3.2	3.1	1	1	1	1	100%	100%	1	1	31-05-2021
76	Koraput (M)	8.91	8.8	8.91	8.8	10	10	89%	88%	0	0	
77	Kotpad (NAC)	2.9	2.6	2.9	2.6	10	3	29%	87%	0	0	
78	Kuchinda (NAC)	2.6	2.2	2.6	2.2	3	5	87%	44%	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	
79	Malkangiri (M)	5	4.9	5	4.9	8	5	63%	98%	0	0	
80	Nabarangapur (M)	3.9	3.8	3.9	3.8	4	4	98%	95%	0	0	
81	Nayagarh (M)	3.07	3	3.07	3	5	5	61%	60%	0	0	
82	Nilagiri (NAC)	3.3	2.2	3.3	2.2	4	3	83%	73%	0	0	
83	Nimapara (NAC)	3	2.8	2	2.8	2	3	100%	93%	0	0	
84	Nuapada NAC	2.1	2	2.1	2	3	3	70%	67%	0	0	
85	Odagaon (NAC)	1.7	1.6	1.7	1.6	5	5	34%	32%	0	0	
86	Padmapur NAC	2.3	2.2	2	2	2	2	100%	100%	2	2	31-05-2021
87	Paradeep (M)	12.7	9.9	12	9.9	12	10	100%	99%	0	0	
88	Paralakhemundi (M)	8.34	8	3	3	3	3	100%	100%	2	1	31-05-2021
89	Patnagarh (NAC)	2.8	2.7	2.8	2	5	2	56%	100%	0	0	
90	Pattamundai (M)	5.6	5.4	5	2	5	2	100%	100%	0	0	
91	Phulabani (M)	4.8	4.5	4.8	3	5	3	96%	100%	1	1	31-05-2021
92	Pipili (NAC)	2.9	2.8	2.9	2.8	3	3	97%	93%	1	0	31-05-2021
93	Polasara (NAC)	3.1	2.7	3.1	2.7	5	5	62%	54%	0	0	
94	Puri (M)	38.31	37.4	30	20	30	20	100%	100%	3	0	31-05-2021
95	Purusottampur (NAC)	2.3	2.2	2.3	2.2	5	5	46%	44%	0	0	
96	Rairangpur (M)	4.4	4.2	4.4	3	5	3	88%	100%	1	1	31-05-2021
97	Rajagangapur (M)	7.7	6.6	5	5	5	5	100%	100%	1	0	31-05-2021
98	Rambha (NAC)	2.2	2.2	2.2	2	5	2	44%	100%	0	0	
99	RANPUR NAC	2.2	1.9	2.2	1.9	3	3	73%	63%	0	0	
100	Raurkela (MC)	59.26	55	40	16	40	16	100%	100%	0	0	
101	Rayagada (M)	11	8.8	11	5	15	5	73%	100%	1	1	31-05-2021
102	Redhakhol (NAC)	2.2	2	2.2	1	3	1	73%	100%	0	0	
103	Sambalpur (MC)	64.27	56.1	20	24	20	24	100%	100%	4	3	31-05-2021
104	Sonepur (M)	3.79	3.8	3.79	3.8	5	5	76%	76%	0	0	
105	Soro (M)	4.5	4.3	4.5	4.3	5	10	90%	43%	0	0	
106	Sunabeda (M)	6.8	6.4	6.8	6.4	10	8	68%	80%	0	0	
107	Sundargarh (M)	6.2	5.9	6.2	5	10	5	62%	100%	1	1	31-05-2021
108	Surada (NAC)	2.3	2	2.3	2	5	5	46%	40%	0	0	
109	Talcher (M)	7.64	7.5	5	5	5	5	100%	100%	1	1	31-05-2021
110	Tarbha (NAC)	1.4	1.3	1.4	1.3	3	3	47%	43%	0	0	
111	Titilagarh (M)	4.5	4.3	4.5	4.3	5	5	90%	86%	0	0	
112	Tusura NAC	1.5	1.3	1.5	1.3	5	2	30%	65%	0	0	
113	Udala (NAC)	2.4	2.2	2.4	2.2	5	5	48%	44%	0	0	
114	Umerkote (M)	4.2	3.6	4.2	3.6	5	5	84%	72%	0	0	
Total:		1,011	940	646	537	831	738	74%	73%	73	22	

VIII. Plastic Waste Management:

- Total Plastic Waste generation: 115 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.

- ✓ 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.

**GOVERNMENT OF ODISHA
FOREST & ENVIRONMENT DEPARTMENT**

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 3rd 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 3rd 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 2nd review meeting was communicated to the members vide letter No. 4342/F&E dated 26.02.2021.

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

1. Compliance to the proceeding of 2nd 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"> • H & UD Department • PR & DW Department • OWSSB • SPCB 	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"> • H&UD Department • PR&DW Department • OWSSB • SPCB 	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"> • WR Department • H & UD Department • PR & DW Department • OWSSB • SPCB 	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"> • H & FW Department • F & ARD Department • H & UD Department • SPCB 	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"> • WR Department • H & UD Department • PR & DW Department • SPCB 	<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 1st 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"> • H & UD Department • Home Department • Industries Department • SPCB • Power (OREDA) • RTO, C&T Department • Agriculture & FE Department • Public Works Department • RD Department • DFO, Forest Department 	<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 3rd AQMC meeting was held on 20.01.2021 under the Chairmanship of ACS, Forest & 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 & 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"> • Revenue & DM Department • SPCB • All District Collectors • SEIAA on EC matters 	<p>Sustainable sand mining matter as per guideline of SSMG-2016 r/w EMGSM-2020 notified by MoEF & CC reinforced. The States are required to furnish their Annual Report to be submitted to MoEF & CC by 30th April giving status till 31st 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 March, 2021

Polluted River stretch : March, 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	7.0	0.6	8.3	>160000	>160000	350	NC
	Palasuni	6.5	0.7	9.2	>160000	>160000	280	NC
	Samantarapur	6.6	0.7	9.4	>160000	>160000	540	NC
	Vadimula	6.9	4.0	7.6	92000	35000	540	NC
2. Daya River (Bhubaneswar to Bargarh) (Priority-IV)	Bhubaneswar D/s at Kanti	7.6	3.9	4.6	35000	11000	140	NC
	Bhubaneswar FD/s at Manitri	7.6	5.0	3.8	11000	4600	79	NC
	Daya at Kanas	6.6	7.5	2.1	35000	17000	23	NC
3. Kuakhai River (Uruli to Bhubaneswar) (Priority-IV)	Bhubaneswar FU/s	8.1	6.3	1.3	4000	2200	17	C
	Bhubaneswar U/s	7.9	6.4	1.2	4900	2200	49	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 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	October, 2020	7.8	<1.0	2.394	79	13
Old town-Samantarapur Area	October, 2020	6.8	<1.0	1.824	11	<1.8
Kalpana-Laxmisagar Area,	October, 2020	6.1	<1.0	6.579	23	<1.8
Chandrasekharapur	October, 2020	6.4	<1.0	31.813	<1.8	<1.8
Capital Hospital Area,	October, 2020	6.1	<1.0	1.593	<1.8	<1.8
Secretariate-Govenor House-Old bus stand Area	October, 2020	No sampling				
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 March, 2021)

Sl. No.	Type	Quantity (MLD)	BOD (mg/L)	FC (MPN/100 mL)
	Drain Name	-	-	
1	Patia	-	80.0	>1,60,000
2	Sainik School	-	112.5	>1,60,000
3	Vani Vihar	-	190.0	>1,60,000
4	Laxmisagar area	-	87.5	>1,60,000
5	Baragada Area	-	85.0	>1,60,000
6	Kedargouri	-	62.5	>1,60,000
7	Airport area	-	45.0	>1,60,000
8	Ghatikia	-	160.0	>1,60,000
9	Nicco Park	-	112.5	>1,60,000
10	Sundarpada	-	15.0	>1,60,000

Polluted River stretch : March, 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	8.1	7.6	3.6	92000	54000	33	NC
	Cuttack FD/s at Mattagajpur	7.6	6.8	2.3	4900	2300	NA	C
5. Serua River (Khandaeta to Sankhatrasa) (Priority-V)	Cuttack FD/s at Sankhatrasa	7.8	8.2	3.4	17000	7000	NA	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	October, 2020	6.6	0.3	1.181	<1.8	<1.8
Mangalabag	October, 2020	7.2	0.3	1.408	<1.8	<1.8
Madhupatna-Kalyan Nagar Area	October, 2020	6.5	0.4	1.452	<1.8	<1.8
Badambadi Area	October, 2020	6.9	0.3	1.373	<1.8	<1.8
Bidanasi-Tulsipur Area,	October, 2020	6.9	0.4	1.058	<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 (March, 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	7.4	6.3	21.6	<10.0	1,60,000	54,000
2	Wastewater discharge to Kathajodi river CDA-Bidanasi area	7.4	10.0	32.4	19.0	>1,60,000	92,000
3	Wastewater discharge to Kathajodi river at Khan nagar	7.2	77.5	171.2	72.0	>1,60,000	>1,60,000

Polluted River stretch : March, 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 (Priority-III)	Rourkela (before confluence with Brahmani river)	7.4	2.4	9.3	160000	92000	170	NC
7. Brahmani (Rourkela to Biritola) (Priority-V)	Panposh D/s at Deogaon	7.6	3.4	5.2	35000	13000	79	NC
	Rourkela D/s at Jalda	7.3	3.8	4.4	14000	4900	49	NC
	Rourkela FD/s at Attaghat	7.4	4.2	3.8	2800	400	<1.8	NC
	Rourkela FFD/s at Biritola	7.4	6.4	2.6	490	170	<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 : March, 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 (Priority-III)	Nandira D/s at Dasnali	7.9	6.8	1.2	790	230	<1.8	C
9. Banguru nallah Along Talcher (Priority-V)	Along Talcher	7.4	7.4	1.2	330	20	2	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	October, 2020	7.0	<1.0	1.076	79	22
Meramundali area	October, 2020	7.4	<1.0	0.882	<1.8	<1.8
Talcher Thermal area	October, 2020	7.4	<1.0	1.009	23	<1.8
Banarpal	October, 2020	7.1	<1.0	0.955	13	<1.8
Kulad	October, 2020	8.0	<1.0	0.985	13	<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 : March, 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	8.0	7.4	1.8	2400	490	8	NC
	Sambalpur FD/s at Shankarmath	7.5	7.2	1.6	2200	330	5	C
	Sambalpur FFD/s at Huma	8.2	7.0	1.5	790	230	<1.8	C
	Sonepur U/s	8.2	7.0	<1.0	78	20	<1.8	C
	Sonepur D/s	8.4	7.4	<1.0	230	45	<1.8	C
	Tikarpada	8.1	7.2	1.1	330	78	<1.8	C
	Narasinghpur	8.2	8.4	<1.0	170	78	8	C
	Munduli	8.1	8.2	<1.0	4900	400	13	C
	Cuttack U/s	8.4	8.2	1.2	940	130	8	C
	Cuttack D/s	7.9	7.8	1.5	1700	340	27	C
	Cuttack FD/s	8.1	7.6	1.1	1400	270	2	C
	Paradeep U/s	7.7	8.2	1.1	490	45	<1.8	C
Paradeep D/s	7.8	8.4	1.6	130	45	8	C	
11. Bheden Along Bheden (Priority-V)	Jharsuguda	8.3	7.8	1.2	4300	2200	<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)	

Water quality of Tributaries of Mahanadi River (March, 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	8.2	6.2	1.2	3500	700	NA	C
	Jharsuguda	7.1	7.6	1.6	2200	490	NA	C
	Brajrajnagar U/S	7.5	8.2	<1.0	1100	330	NA	C
	Brajrajnagar D/S	7.8	8.0	1.1	2800	790	NA	C
Ong River	Dharuakhaman	8.1	7.4	<1.0	130	20	NA	C
Tel River	Monmunda	7.7	6.8	<1.0	78	45	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
Sambalpur town Along Mahanadi River						
Near Panthanivas	October, 2020	7.4	0.2	29.580	<1.8	<1.8
Near Railway station	October, 2020	7.3	0.2	22.146	<1.8	<1.8
Near VSS Medical College, Burla	October, 2020	6.6	0.3	22.146	<1.8	<1.8
Paradeep town Along Mahanadi River						
Badapadia market complex	October, 2020	8.3	1.7	7.015	1700	790
Musadiha	October, 2020	8.0	1.1	2.729	1300	490
Jharsuguda town in the catchment of Bheden river and Ib river						
Burkhamunda	October, 2020	8.1	<1.0	3.866	<1.8	<1.8
Badamal Industrial Estate	October, 2020	7.3	<1.0	1.417	<1.8	<1.8
Budhipadar	October, 2020	6.8	<1.0	3.359	<1.8	<1.8
Brajarajnagar Mining belt	October, 2020	6.5	<1.0	5.302	<1.8	<1.8
Rampur area (Water tank)	October, 2020	7.1	<1.0	0.936	<1.8	<1.8
Ib thermal power station	October, 2020	7.2	<1.0	0.991	<1.8	<1.8
Belpahar area	October, 2020	6.9	<1.0	2.080	<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 : March, 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) (Priority-V)	Mangala D/s at Golasahi	7.4	7.9	1.8	1300	490	5	NC
13. Nuna (Along Bijipur, Puri) (Priority-V)	Nuna at Bijipur	7.5	5.5	<1.0	1300	490	5	C
14. Ratnachira (Along Sakhigopal, Puri) (Priority-V)	Kumardihi	7.1	6.1	1.4	4700	2200	23	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	October, 2020	7.5	<1.0	10.863	<1.8	<1.8
Near Jagannath Temple,	October, 2020	7.6	<1.0	1.854	<1.8	<1.8
Near Sea Beach	October, 2020	7.9	<1.0	3.044	<1.8	<1.8
Baliapanda	October, 2020	7.3	<1.0	28.706	<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 (March, 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)	7.5	19.8	77.2	59.0	14000	2600

Polluted River stretch : March, 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	7.2	6.7	1.8	1100	330	<1.8	C
	Rayagada D/s	7.5	7.2	1.4	490	170	<1.8	C

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

Polluted River stretch : March, 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	7.5	8.0	<1.0	940	490	5	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 : March, 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 (Priority-V)	Along Tangi	7.0	5.3	<1.0	2200	460	22	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 : March, 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 (Priority-V)	Madhopur	7.8	8.5	1.7	3500	2200	5	C
	Potagarh	7.9	8.2	2.1	3500	490	12	C
19. Sabulia Along Jagannathpatna, Rambha (Priority-V)	Jagannathpatna, Rambha	7.4	8.3	1.7	2200	1100	17	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	October, 2020	7.8	0.3	1.356	49	13
Bus stand	October, 2020	7.3	0.3	1.180	79	23
Badabazar	October, 2020	7.1	0.2	1.289	22	<1.8
Railway station	October, 2020	7.2	0.6	6.336	49	13
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 March) (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 (3.4)	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 (1.7)	Clean (Improved)
13	Rushikulya (Pratappur to Ganjam)	Priority-V (3.4)	Priority-V (3.7)	Clean (2.6)	Clean (2.1)	Clean (1.6)	Clean (Improved)
14	Banguru nallah (Along Talcher, Rengali)	Priority-V (3.2)	Priority-V (3.9)	Clean (1.9)	Clean (1.6)	Clean (1.2)	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 (<1.0)	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

Category	No. of polluted River stretch (2017)	No. of polluted River stretch (2018)	No. of polluted River stretch (2019)	No. of polluted River stretch (2020)	No. of polluted River stretch (Upto March, 2021)
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)
Total :	19	19	19	19	19

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

Water quality of Rivers in Odisha during March, 2021

Total River water quality Monitoring Station : 129

No. of stations conforming to Bathing Water quality : 113

(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	8.2	6.2	1.2	3500	700	NA	C
	2	Jharsuguda	7.1	7.6	1.6	2200	490	NA	C
	3	BrajrajnagarU/S	7.5	8.2	<1.0	1100	330	NA	C
	4	BrajrajnagarD/S	7.8	8.0	1.1	2800	790	NA	C
Bheden	5	Jharsuguda	8.3	7.8	1.2	4300	2200	<1.8	C
Hirakud Reservoir	6	Hirakud	8.2	7.6	<1.0	490	45	NA	C
Mahanadi	7	Sambalpur U/S	8.4	7.0	1.4	1300	170	<1.8	C
	8	Sambalpur D/S	8.0	7.4	1.8	2400	490	8	C
	9	Sambalpur FD/S at Shankarmath	7.5	7.2	1.6	2200	330	5	C
	10	Sambalpur FD/S at Huma	8.2	7.0	1.5	790	230	<1.8	C
	11	Power Channel U/S	7.9	6.8	<1.0	1300	220	NA	C
	12	Power Channel D/S	8.1	7.2	1.3	4900	2300	NA	C
	13	Sonepur U/S	8.2	7.0	<1.0	78	20	<1.8	C
	14	Sonepur D/S	8.4	7.4	<1.0	230	45	<1.8	C
	15	Tikarpada	8.1	7.2	1.1	330	78	<1.8	C
	16	Narasinghpur	8.2	8.4	<1.0	170	78	8	C
	17	Munduli	8.1	8.2	<1.0	4900	400	13	C
	18	Cuttack U/s	8.4	8.2	1.2	940	130	8	C
	19	Cuttack D/s	7.9	7.8	1.5	1700	340	27	C
	20	Cuttack FD/s	8.1	7.6	1.1	1400	270	2	C
21	Paradeep U/S	7.7	8.2	1.1	490	45	<1.8	C	
22	Paradeep D/S	7.8	8.4	1.6	130	45	8	C	
Ong	23	Dharuakhaman	8.1	7.4	<1.0	130	20	NA	C
Tel	24	Monmunda	7.7	6.8	<1.0	78	45	NA	C
Kathajodi	25	Cuttack U/s	8.3	8.0	1.6	1100	110	13	C
	26	Cuttack D/s	8.1	7.6	3.6	92000	54000	33	NC
	27	Cuttack FD/s at Mattagajpur	7.6	6.8	2.3	4900	2300	NA	C
	28	Cuttack FFD/s at Kamasasan	7.5	7.8	2.1	940	45	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	7.8	8.2	3.4	17000	7000	NA	NC
Kuakhai	30	Bhubaneswar FU/s	8.1	6.3	1.3	4000	2200	17	C
	31	Bhubaneswar U/s	7.9	6.4	1.2	4900	2200	49	C
Daya	32	Gelapur	8.5	9.1	1.4	2800	1300	NA	C
	33	Bhubaneswar D/s	7.6	3.9	4.6	35000	11000	140	NC
	34	BhubaneswarFD/s	7.6	5.0	3.8	11000	4600	79	NC
	35	Kanas	6.6	7.5	2.1	35000	17000	23	NC
Birupa	36	Choudwar	8.1	8.2	1.2	340	93	NA	C
Gangua nallah	37	Rajdhani Engineering College	7.0	0.6	8.3	>160000	>160000	350	NC
	38	Palasuni	6.5	0.7	9.2	>160000	>160000	280	NC
	39	Samantarapur	6.6	0.7	9.4	>160000	>160000	540	NC
	40	Vadimula	6.9	4.0	7.6	92000	35000	540	NC
Kushabhadra	41	Bhingarpur	7.3	6.1	1.9	92000	54000	NA	NC
	42	Nimapara	7.5	7.5	1.5	35000	11000	NA	NC
	43	Gop	7.5	5.1	1.7	54000	17000	NA	NC
Gobari	44	Kendrapada U/s	7.7	7.4	1.2	1400	330	NA	C
	45	Kendrapada D/s	7.5	6.8	1.4	3500	2200	NA	C
Mangala	46	Mangala U/s at Malatipatpur	6.5	8.3	1.3	790	220	<1.8	C
	47	Mangala D/s at Golasahi	7.4	7.9	1.8	1300	490	5	C
Bhargavi	48	Chandanpur	7.4	9.6	1.4	2800	1700	11	C
Devi	49	Machhagaon	7.9	8.4	2.3	1300	490	NA	C
Luna	50	Luna at Bijipur	7.5	5.5	<1.0	1300	490	5	C
Sabulia	51	Rambha, Jagatnathpatna	7.4	8.3	1.7	2200	1100	17	C
Kusumi	52	Tangi	7.0	5.3	<1.0	2200	460	22	C
Kansari	53	Banapur	7.1	6.3	1.1	3500	330	NA	C
Badasankha	54	Langalaeswar	7.3	8.4	1.3	4900	2200	NA	C
Ratnachira	55	Kumardihi	7.1	6.1	1.4	4700	2200	23	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 (D) 2500 (P)	100 (D) 500 (P)	-

NA : Not analysed

D : Desirable P : Permissible

(B) Brahmani River system

Name of River	Sl. No.	Name of Monitoring Station	pH	DO, mg/L	BOD, mg/L	TC, MPN/100 mL	FC, MPN/100 mL	FS, MPN/100 mL	Water Quality Status (Conforming (C)/ Non-Conforming (NC))
Brahmani	1	Panposh U/S	7.7	8.4	<1.0	4000	1700	NA	C
	2	Panposh D/S	7.6	3.4	5.2	35000	13000	79	NC
	3	Rourkela D/S at Jalda	7.3	3.8	4.4	14000	4900	49	NC
	4	Rourkela FD/s at Attaghat	7.4	4.2	3.8	2800	400	<1.8	NC
	5	Rourkela FFD/s at Biritola	7.4	6.4	2.6	490	170	<1.8	C
	6	Bonaigarh	7.3	7.5	1.5	1400	700	NA	C
	7	Rengali	8.1	7.8	<1.0	330	110	NA	C
	8	Samal	8.4	10	<1.0	790	130	NA	C
	9	Talcher FU/S	8.1	7.4	1.1	220	45	<1.8	C
	10	Talcher U/s	8.2	7.8	1.3	230	78	<1.8	C
	11	Mandapal	7.8	7.8	1.6	330	130	8	C
	12	Talcher D/S	8.0	7.6	1.9	490	170	5	C
	13	Talcher FD/S	8.0	9.6	1.4	330	130	<1.8	C
	14	Dhenkanal U/s	7.6	8.0	<1.0	230	78	NA	C
	15	Dhenkanal D/s	7.7	8.0	1.1	700	130	NA	C
	16	Bhuban	7.4	8.2	<1.0	4300	2100	NA	C
	17	Kabatabandha	8.5	7.4	1.2	220	20	NA	C
	18	Dharmasala U/s	8.3	7.2	1.1	3500	1100	NA	C
	19	Dharmasala D/s	6.6	7.0	1.8	3500	2400	NA	C
	20	Pottamundai	8.2	7.8	<1.0	1700	110	NA	C
Kharasrota	21	Khanditara	7.2	7.6	<1.0	1400	130	NA	C
	22	Binjharpur	8.0	6.9	<1.0	4700	2400	NA	C
	23	Ali	7.7	8.6	1.5	4700	2200	NA	C
Nandira jhor	24	Nandira U/s	7.7	6	<1.0	330	78	<1.8	C
	25	Nandira D/s	7.9	6.8	1.2	790	230	<1.8	C
Kisindajhor	26	Kisindajhor	7.6	6.4	1.1	790	170	NA	C
Sankh	27	Sankh U/s	7.7	6.4	<1.0	3500	790	NA	C
Koel	28	Koel U/s	7.9	6.8	1.9	4700	1700	NA	C
Guradih nallah	28	Rourkela (before confluence with Brahmani river)	7.4	2.4	9.3	160000	92000	170	NC
Badajhor	30	Badajhor	7.6	8.0	1.3	1100	330	NA	C
Damsala	31	Dayanabil	8.0	7.0	<1.0	790	45	NA	C
Gondanallah	32	Marthapur	7.9	6.8	1.2	1300	110	NA	C
Karo	33	Barbil	6.9	6.9	1.2	1100	140	NA	C
Lingra	34	Lingira U/s	8.2	7.2	1.1	230	45	NA	C
	35	Lingira D/s	8.1	6.6	1.6	1300	130	NA	C

Name of River	Sl. No.	Name of Monitoring Station	pH	DO, mg/L	BOD, mg/L	TC, MPN/100 mL	FC, MPN/100 mL	FS, MPN/100 mL	Water Quality Status (Conforming (C)/ Non-Conforming (NC))
Ramiala	36	Kamakhyanagar	7.4	8.6	<1.0	330	45	NA	C
Bangurunallah	37	Bangurunallah	7.4	7.4	1.2	330	20	2	C
Singadajhor	38	Singadajhor	7.9	7.8	1.0	230	45	NA	C
Tikira	39	Kaniha U/s	7.9	8.4	<1.0	330	68	NA	C
	40	Kaniha D/s	8.5	11.8	1.6	790	230	NA	C
Bangurusingadajhor	41	Bangurusingadajhor	7.8	5.8	1.3	230	20	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 (D) 2500 (P)	100 (D) 500 (P)	-

(C) Baitarani River system

Name of River	Sl. No.	Name of Monitoring Station	pH	DO, mg/L	BOD, mg/L	TC, MPN/100 mL	FC, MPN/100 mL	FS, MPN/100 mL	Water Quality Status (Conforming (C)/ Non-Conforming (NC))
Kundra nallah	1	Joda	7.1	7.2	<1.0	3500	1300	NA	C
Kusei	2	Deogaon	8.1	7.4	1.6	4000	2100	NA	C
Baitarani	3	Naigarh	7.0	6.6	1.2	700	130	NA	C
	4	Unchabali	6.9	6.8	<1.0	1400	170	NA	C
	5	Champua	7.5	7.8	<1.0	3500	1300	NA	C
	6	Tribindha	7.5	7.6	<1.0	1100	170	NA	C
	7	Joda	7.7	6.3	1.8	1100	220	NA	C
	8	Anandpur	7.4	7.6	1.4	3500	1700	NA	C
	9	Jajpur	7.6	7.2	<1.0	4300	2200	NA	C
	10	Chandbali U/s	7.6	7.2	<1.0	3500	790	NA	C
	11	Chandbali D/s	7.8	6.4	1.1	4900	1700	NA	C
Dhamra	12	Dhamra	7.6	7.6	<1.0	490	130	NA	C
Salandi	13	Bhadrak U/s	8.0	7.6	1.1	3400	1700	NA	C
	14	Bhadrak D/s	7.6	6.0	1.9	4700	2400	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 (D) 2500 (P)	100 (D) 500 (P)	-

NA : Not analysed

D : Desirable P : Permissible

(D) Rushikulya River system

Name of River	Sl. No.	Name of Monitoring Station	pH	DO, mg/L	BOD, mg/L	TC, MPN/100 mL	FC, MPN/100 mL	FS, MPN/100 mL	Water Quality Status (Conforming (C)/ Non-Conforming (NC))
Russelkunda Reservoir	1	Russelkunda Reservoir	8.0	9.0	1.0	790	130	NA	C
Badanadi	2	Aska	8.2	9.5	<1.0	2400	790	NA	C
Rushikulya	3	Aska	7.9	11.0	1.5	1300	790	NA	C
	4	Nalabanta	8.0	8.0	1.1	2400	790	NA	C
	5	Madhopur	7.8	8.5	1.7	3500	2200	5	C
	6	Potagarh	7.9	8.2	2.1	3500	490	12	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 (D) 2500 (P)	100 (D) 500 (P)	-

(E) Subarnarekha River system

Name of River	Sl. No.	Name of Monitoring Station	pH	DO, mg/L	BOD, mg/L	TC, MPN/100 mL	FC, MPN/100 mL	FS, MPN/100 mL	Water Quality Status (Conforming (C)/ Non-Conforming (NC))
Subarnarekha	1	Rajghat	8.4	8.0	1.2	790	230	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 (D) 2500 (P)	100 (D) 500 (P)	-

(F) Budhabalanga River system

Name of River	Sl. No.	Name of Monitoring Station	pH	DO, mg/L	BOD, mg/L	TC, MPN/100 mL	FC, MPN/100 mL	FS, MPN/100 mL	Water Quality Status (Conforming (C)/ Non-Conforming (NC))
Budhabalanga	1	Baripada D/s	7.5	8.0	<1.0	940	490	5	C
	2	Balasure U/s	7.9	7.6	1.4	3500	1300	NA	C
	3	Balasure D/s	7.5	7.6	1.8	4900	2100	NA	C
	4	Hatiagond (Sona)	8.2	8.4	<1.0	230	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 (D) 2500 (P)	100 (D) 500 (P)	-

NA : Not analysed

D : Desirable P : Permissible

(G) Bahuda River system

Name of River	Sl. No.	Name of Monitoring Station	pH	DO, mg/L	BOD, mg/L	TC, MPN/100 mL	FC, MPN/100 mL	FS, MPN/100 mL	Water Quality Status (Conforming (C)/ Non-Conforming (NC))
Bahuda	1	Damodarpally	8.5	8.5	<1.0	790	170	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 (D) 2500 (P)	100 (D) 500 (P)	-

(H) Nagavali River system

Name of River	Sl. No.	Name of Monitoring Station	pH	DO, mg/L	BOD, mg/L	TC, MPN/100 mL	FC, MPN/100 mL	FS, MPN/100 mL	Water Quality Status (Conforming (C)/ Non-Conforming (NC))
Nagavali	1	Penta U/s	7.1	7.1	1.4	790	130	NA	C
	2	Jayjkaypur D/s	7.2	6.7	1.8	1100	330	<1.8	C
	3	Rayagada D/s	7.5	7.2	1.4	490	170	<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	8.0	6.8	1.1	270	78	NA	C
	2	Gunupur	7.7	7.3	1.2	490	230	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	7.0	7.1	1.1	330	78	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	7.8	7.4	1.1	3500	490	NA	C

Monthly Progress Report on Hon'ble NGT O.A. NO.606/2018 for the month of March-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 128th 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 EFC and physical achievement during the current FY is 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.
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)

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.


Chief Engineer, 19/04/2021

 Basin Planning & Climate Change

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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 st July to 15 th Nov). and Rabi crop (1 st week of January to 15 th 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 2019-2020 2020-21	RRHS of 131 nos in Govt. Buildings & 4942 nos. in Private Buildings completed in Bhubaneswar. Nil 20 nos in Govt.	Bhubaneswar town Provision for Rs. 37

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 Construction of Check Dam.	2019-20 2020-2021 2019-20 2020-21(up to March - 2021)	buildings and 400 nos in private buildings will be constructed in Khurdha Dist. 9 nos 534 nos. of Check Dams completed up to March 2020 in Khurdha Dist. 541 nos. of Check Dams completed up to March-2021 in Khurdha Dist.	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:	Proposal for construction of a cross regulator at the off taking point of Gangua Nalla to divert the entire flood discharge of Chandaka catchment to Kuakhia 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 th 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. Water is released to Gangua Nalla from Daya West Branch Canal from 01.03.2021 to 31.03.2021 with maximum release of 34 cusecs on dt 31.03.2021.		
XIX	Plantation activities along the river:	4900 seeding has been sown along the drainage canals by Khurda 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.	-	-	


 Chief Engineer
 BP&CC
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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 st July to 15 th Nov). and Rabi crop (1 st week of January to 15 th 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	<p>Construction of Rooftop Rainwater Harvesting Structure (RRHS) in Govt. and Private Building in towns of Odisha.</p> <p>Ground Water Recharge through construction of Recharge shaft in tanks and ponds</p> <p>Construction of Check Dam.</p>	<p>2014-15 to 2018-19</p> <p>2019-2020</p> <p>2020-21</p> <p>2019-20</p> <p>2020-2021</p> <p>2019-20</p> <p>2020-21(up to March -2021)</p>	<p>RRHS of 131 nos in Govt. Buildings & 4942 nos. in Private Buildings completed in Bhubaneswar.</p> <p>Nil</p> <p>20 nos in Govt. buildings and 400 nos in private buildings will be constructed in Khurdha Dist.</p> <p>9 nos</p> <p>Programmed nil</p> <p>534 nos. of Check Dams completed up to March 2020 in Khurdha Dist.</p> <p>541 nos. of Check Dams completed up to March -2021 in Khurdha Dist.</p>	<p>Bhubaneswar town</p> <p>Provision for Rs. 37 crores has been kept for the year 2020-21</p> <p>In Khurdha Dist.</p> <p>In Khurdha Dist.</p> <p>Provision for Rs. 67 crores has been kept for the year 2020-21.</p>
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.	-	-	


 Chief Engineer
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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	RRHS of 7 nos in Govt. Buildings & 76 nos. in Private Buildings completed	Rourkela town
			2019-2020	Nil	
			2020-21	12 nos in Govt. buildings and 160 nos in private buildings will be constructed in Sundergarh 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	4 nos	In Sundergarh Dist.
			2020-21 (Provision)	5 nos (Constructed-5 nos)	In Sundergarh Dist.
		Construction of Check Dam,	2019-20	742 nos. of Check Dams completed up to March 2020 in Sundergarh Dist.	
			2020-21 (up to F - 2021)	742 nos. of Check Dams completed up to March-21 in Sundergarh 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 Sundergarh 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.	-	-	


 Chief Engineer 19/11/2021
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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 7 nos in 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 Construction of Check Dam.	2020-21 2019-20 2020-21(Provision) 2019-20 2020-21(up to March-2021)	12 nos in Govt. buildings and 160 nos in private buildings will be constructed in Sunderagrh Dist. 4 nos 5 nos. (Constructed-5 nos) 742 nos. of Check Dams completed up to March 2020 in Sunderagrh Dist. 742 nos. of Check Dams completed up to March-2021 in Sunderagrh Dist.	Provision for Rs. 37 crores has been kept for the year 2020-21 In Sunderagrh Dist. In Sunderagrh 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.			
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	

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
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 Sundergarh 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.	-	-	


 Chief Engineer
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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
			2019-2020	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.
			2020-2021 (provision)	05 nos (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 March -2021)	142 nos. of Check Dams completed up to March-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.	2019-2020 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 Ryagada Dist. In Ryagada Dist.
		Construction of Check Dam.	2019-20 2020-21(up to March- 2021)	833 nos of Check Dams completed up to March-2020 in Rayagada Dist. 833 nos of Check Dams completed up to March -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 river Kathajodi (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
			2019-2020	Nil	
			2020-21	12nos in Govt. buildings and 240 nos 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	05 nos	In Cuttack Dist.
			2020-2021 (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 March -2021)	706 nos. of Check Dams completed up to March-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 :- Serua River (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 Kakatpur Branch Canal system recharges the ground water as well as river or drain.	In every year, during Kharif crop (1 st July to 15 th Nov). and Rabi crop (1 st week of January to 15 th 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 2019-2020 2020-21 2019-20 2020-21 (Provision) 2019-20 2020-21(up to March -2021)	RRHS of 07 nos in Govt. Buildings & 123 nos. in Private Buildings completed Nil 12 nos in Govt. buildings and 240 nos 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 March -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-I & 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-I & 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.	-	-	


 Chief Engineer
 BP&CC
 19/11/2021
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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 – March - 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 st July to 15 th Nov). and Rabi crop (1 st week of January to 15 th 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 2019-2020 2020-21 2019-20 2020-21(Provision) 2019-20 2020-21(up to March -2021)	RRHS of 34 nos in Govt. Buildings & 529 nos. in Private Buildings completed Nil 12nos in Govt. buildings and 160 nos in private buildings will be constructed in Puri Dist. Nil 05 (Constructed Nil) 118nos. of Check Dams completed up to March 2020 in Puri Dist. 142 nos. of Check Dams completed up to March-2021 in Puri Dist.	Puri town Provision for Rs. 37 crores has been kept for the year 2020-21 In Puri Dist. In Puri 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 74 flood plain zones are adequately protected and effectively managed every year. When encroachments 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:	1700 sapling has been sown along the canal colony, office premises by Puri Irrigation Divn. 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 Irrigation Division, Puri
XX	Development of bio-diversity park:	Development of bio-diversity parks will be taken up with the help of Forest & Env. Deptt.	-	-	


 Chief Engineer
 BP&CC
 19/11/2021





Orissa Water Supply & Sewerage Board

(A Govt. of Odisha Undertaking)

Satyanagar, Bhubaneswar-751007 Phone: (0674)2570086/2571185

Email msowssb@gmail.com / ceowssb@gmail.com Fax:2571348

No. 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 3rd Review Meeting of EMC scheduled to be held on 19.4.2021

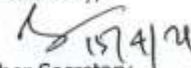
Ref: Letter No.7360 dated 8.4.2021 of F&E Department.

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 3rd 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			
		Total : 298.55			
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	-	-
		Total : 266.50	370.50	104	
b.	Septage	1017 KLD (1.017 MLD)	2037 KLD	1020 KLD	2021-22
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	-	-
		Total: 1641.06 km	2098.17 km	457.11 km	
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	-	-
		Total : 10	13	3	
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
		Total 298.55
2	a	Quantity of Sewage treated in the State(In MLD)
		Bhubaneswar 19
		Cuttack 61.54
		Puri 16
		Talcher 2
		Total 98.54
3	a	Existing Coverage of Sewerage network (In Km)
		Bhubaneswar 871.64
		Cuttack 383.49
		Sambalpur 91.91
		Rourkela 166.02
		Puri 128.00
		Total 1641.06
4	a	Has Sewage generation (town/ City wise) been estimated for present and future population ? Please provide details of the same
		No
5	a	Has adequate treatment capacity been developed for treatment of sewage?
		No
	b	If not, then what is present percentage of sewage being treated ?
		33.00 %
	c	If not, please provide the timeframe by which all sewage generated in the State shall be treated
		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
6	a	Please provide details of STPs (town / city wise) along with details on compliance status and treatment capacity
		Enclosed separately
7	a	Is entire sewage generated from each town being linked with sewerage network in the state ?
		No
	b	If not, then what is the present current percentage of sewage being
		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 / 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,
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.

Encl: As above.

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

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

Member Secretary, 21/07/20

Member Secretary, 21/07/20

Member Secretary, 21/07/20

Member Secretary, 21/07/20

508

**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
1st 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

To

Dr. Prashant Gargava,
Member Secretary,
Central Pollution Control Board,
Parivesh Bhawan, East Atrjun Nagar, Delhi-110032

SEE-3 (CRND)

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,

[Signature]
12/3

[Signature]
Director, Environment-cum-
Special Secretary to Govt. and
Member Secretary, OCZMA

CES
[Signature]
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.

Sono
SES (Lab)
[Signature]
17/3

[Signature]
Director, Environment-cum-
Special Secretary to Govt. and
Member Secretary, OCZMA

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.

ES (CRND)
[Signature]
18/3

[Signature]
Director, Environment-cum-
Special Secretary to Govt. and
Member Secretary, OCZMA

Regulation of mining activities in Odisha

Overview of mining activities in Odisha

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

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

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

There are also 1481 nos. of other mines which are mostly Graphite, Quartzite, Pyrophyllite, Fireclay, Soapstone, China-clay, Gemstone, Mineral sand, Stone quarry and Sand mines etc. The major mineral mines i.e. Coal, Iron, Manganese, Chromite and Bauxite are mostly concentrated in seven mining clusters of Joda-Barbil-Koira, Talcher-Angul, Ib-Valley, 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%
Total			202	249	81%

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

Measures taken for abatement of pollution due to mining activities

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

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

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

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

Admin NMCG | Welcome ODS/SHA | Change Password | Logout |

National Mission for Clean Ganga

(Registered Society, Under Act 1960)
Ministry of Jal Shakti
Department of Water Resources, River Development & Ganga Rejuvenation
Government of India

ENTRY FORMS >

Grievance Report

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

SEARCH

* Date From (DD-MM/YYYY) * Date To (DD-MM/YYYY)
01/03/2021 31/03/2021

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

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