



FAX : 2562822/2560955
TEL : 2564033/2563294
EPABX : 2561909/2562847
E-mail : Peribesh1@dataone.in
Website : www.ospcboard.org

STATE POLLUTION CONTROL BOARD, ODISHA

[DEPARTMENT OF FOREST & ENVIRONMENT, GOVERNMENT OF ODISHA]

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

No. 8923
To

IND-VI-3W/2824 (Pl.V)/19-20

Dt. 18.09.20

Dr. D. P. Mathuria, Executive Director,
National Mission for Clean Ganga
Department for 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 Reports related to Control of River Pollution - Reg.

Sir,

In inviting a reference to above subject, the Monthly Progress Report for the month of August, 2020 in compliance to the Proceedings of the 5th Central Monitoring Committee is enclosed herewith for your kind information and necessary action.

Yours faithfully,

Encl: As above


Member Secretary

Memo No. 8924 / dt. 18.09.20

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. 8925 / dt. 18.09.20

Copy forwarded to the 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

**Compliance of Minutes of 5th Meeting of Central Monitoring Committee held on
31.08.2020 through Video Conferencing**

Suggestions of 5th CMC Meeting	Compliance by OSPCB
1) Information regarding identified drains (18 nos) discharging into polluted river stretches and the status of in-situ remediation for these drains, need to be provided.	Requested to Housing and Urban Development Department to furnish details of drains vide letter No. 7536 dated 20.08.2020. Information is yet to be received. Water quality of drains with respect to BOD and Fecal Coliform during August, 2018 is given in Annexure-2 at p. 5-7.
2) Further, amount of sewage being treated by STP and FSTP needs to be provided separately. Similarly, progress made in on-going and proposed projects of STP and FSTP to be provided separately.	Amount of sewage being treated by STP are given in Annexure 3(a) at p. 8-10 Amount of sewage being treated in Septage Treatment Plant (FSTP) are given in Annexure-3 (b) at p. 11-15.

National Mission for Clean Ganga

Format for Submission of Monthly Progress Report by States/ UTs

(Hon'ble NGT in the matter of OA No. 673/2018 dated 06.12.2019)

State : Odisha

Month : August, 2020

Sl No.	Information sought for	Replies
6.1 (i)	identification of polluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment	List of Polluting stretches and their priority category are given in Annexure-1. (Page-4) Information on identification of drains contributing pollution to these river stretches are given in Annexure-2. (Page-5-7)
(ii)	Status of STPs. I&D and sewerage networks, Details of Existing infrastructure, Gap Analysis, Proposed along with completion timeline	Information on status of STPs constructed/ to be constructed to treat domestic wastewater is given in Annexure-3(a) (page-8-10). Septage Treatment Plants have been constructed to treat the septage generated in the city in the Plant instead of being discharged to the drains. Information on status of SeTPs constructed/ to be constructed is given in Annexure-3(b) (page-11-15).
(iii)	Status of CETPs, Details of Existing CETP and ETP Infrastructure, Gap Analysis, Proposed along with completion timeline, No. of industries and complying status	There is no CETP in the State. Industries have installed captive ETPs for treatment of Industrial Effluent. Detail status of management of Industrial Effluent (17 categories) is given in Annexure-4 (Page-16).
(iv)	Status of Solid Waste Management and Details of Processing facilities and Existing infrastructure, Gap analysis, Proposed along with completion timeline	Information given in Annexure-5 (Page- 17,18).
(v)	Latest water quality of polluted river, its tributaries, drains with flow details and ground	Latest water quality status of polluted river stretches during August,2020 with respect to six

	<p>water quality in the catchment of polluted river;</p>	<p>parameters such as pH, DO, BOD, Total Coliform, Fecal Coliform and Fecal Streptococcus is given in Annexure-6 (a) (Page-19- 27).</p> <p>Comparison of priorities of polluted river stretches during the period 2017 -2020(as on August, 2020) is given in Annexure-6 (b) (Page- 28).</p> <p>Summary of number of polluted river stretches under different category during the period 2017-2020 (upto August, 2020) is given in Annexure-6 (c) (Page-29).</p> <p>Latest water quality of rivers in whole of the State with respect to six parameters such as pH, DO, BOD, Total Coliform, Fecal Coliform and Fecal Streptococcus during August, 2020 is given in Annexure-6(d) (Page- 30- 36).</p> <p>Water quality status has been uploaded in RRC website of the Board (weblink : https://www.rrcodisha.org/water-quality-station/)</p>
(vi)	<p>Preventing dumping of waste and scientific waste management including bio-medical wastes, plastic wastes and decentralizing waste processing, including waste generated from hotels, ashrams, etc.</p>	<p>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.</p> <p>Bar-code System has been implemented in the following four Common Facilities (CBWTDF) :</p> <p>1)M/s. Sani Clean Pvt. Ltd., Khurda, M/s Mediaid Marketing Services, Bhubaneswar at SCB Medical College and Hospital,</p>

		<p>Cuttack</p> <p>2) M/s Mediaid Marketing Services, Bhubaneswar at Rourkela Govt. Hospital, Rourkela</p> <p>4) M/s. Bio-Tech Solutions, at VSS Medical College and Hospital Burla, Sambalpur.</p> <p>Biomedical Waste generation and management in the Municipalities along the polluted river stretches is given in Annexure-7 (Page-37-38)</p>
(vii)	Ground Water Regulation	Information given in Annexure-8. (Page-39-40)
(viii)	Adopting Good Irrigation practices	
(ix)	Protection and Management of Flood Protection Zones (FPZ)	
(x)	Rain water harvesting	
(xi)	Maintaining minimum environmental flow in river	
(xii)	Plantation on both sides of the river	
(xiii)	Setting up of biodiversity parks on flood plains by removing encroachment	

**List of Polluted River Stretches as identified by CPCB and their priority Category
(during 2017)**

Polluted River Stretches identified by CPCB		Priority Category of Polluted River stretch
1.	Gangua River (Along Bhubaneswar)	Priority-I
2.	Guradih nallah (Rourkela)	Priority-III
3	Kathajodi (Cuttack to Urali)	Priority-III
4	Nandira Jhor (D/s of Talcher)	Priority-III
5	Daya (Bhubaneswar to Bargarh)	Priority-IV
6	Kuakhai (Along Bhubaneswar)	Priority-IV
7	Banguru nallah (along Talcher, Rengali) (Corrected as Along Talcher)	Priority-V
8	Bheden (along Bheden)	Priority-V
9	Brahmani (Rourkela to Biritol)	Priority-V
10	Budhabalanga (Mahulia to Baripada)	Priority-V
11	Kusumi (along Talcher) (Corrected as Along Tangi)	Priority-V
12	Mahanadi (Sambalpur to Paradeep)	Priority-V
13	Mangala (Along Puri)	Priority-V
14	Nagavali (Jaykaypur to Rayagada)	Priority-V
15	Luna (along Bijipur)	Priority-V
16	Ratnachira (Along Bhubaneswar, Puri)	Priority-V
17	Rushikulya (Pratappur to Ganjam)	Priority-V
18	Sabulia (Jagannathpatna, Rambha)	Priority-V
19	Serua (Khandaeta to Sankhatrasa)	Priority-V

Details of drains contributing to polluted river stretches (River stretch-wise) (August, 2020)

Sl. No.	Name of the Polluted River Stretch	Drain	Type Domestic/ Industrial/ Mixed	Quantity (MLD)	BOD (mg/L)	FC (MPN/ 100 mL)
1.	Gangua River (Along Bhubaneswar)	10 Nos.	Domestic			
			Drain Name	-	-	-
			Patia	-	5.5	7900
			Sainik School	-	13	160000
			OAP area	-	5.9	35000
			VaniVihar	-	17.5	54000
			Laxmisagar area	-	16.5	160000
			Baragada Area	-	17.5	160000
			Kedargouri	-	6.8	92000
			Airport area	-	5	17000
			Ghatikia	-	4.9	54000
Nicco Park	-	14.5	160000			
2.	Guradih nallah (Rourkela)	1 No.	Industrial	-	-	-
3	Kathajodi (Cuttack to Urali)	3 Nos.	Domestic			
			Outlet of STP at CDA-Bidanasi area	-	2.3	<1.8
			Wastewater discharge to Kathajodi river through sluice gate at Khannagar	-	46.6	92000
			Outlet of STP at Mattagajpur discharge to Kathajodi river	-	1.8	790
4	Nandira Jhor (D/s of Talcher)	1 No.	Kisindajhor, a natural storm water drain carrying treated industrial discharge	-	1.7	230

Sl. No.	Name of the Polluted River Stretch	Drain	Type Domestic/ Industrial/ Mixed	Quantity (MLD)	BOD (mg/L)	FC (MPN/ 100 mL)
5	Daya (Bhubaneswar to Bargarh)	1 No.	Gangua * nallah , a natural storm water drain, carrying domestic wastewater	-	5.3	77075
6	Kuakhai (Along Bhubaneswar)	-	No drain	-	-	-
7	Banguru nallah (along Talcher, Rengali)	-	No drain	-	-	-
8	Bheden (along Bheden)		Kharkhari nallah, a natural storm water drain, carrying treated industrial and domestic wastewater	-	-	-
9	Brahmani (Rourkela to Biritol)	-	Guradih nallah, a natural storm water drain, carrying treated industrial and domestic wastewater	-	6.3	17000
10	Budhabalanga (Mahulia to Baripada)	2 Nos.	Sarali Nallah and Jarli nallah, two natural storm water drains carrying domestic wastewater	-	-	-
11	Kusumi (along Tangi)	-	No drain	-	-	-

* Average of four sampling stations on Gangua nallah

12	Mahanadi (Sambalpur to Paradeep)	<p>Sambalpur : Domestic wastewater of Sambalpur Municipal Corporation flows through four natural streams such as Tangana nallah, Dhobijhore, Haradajhor and Malatijhor which ultimately discharge into Mahanadi river</p> <p>Sonepur : One major drain carrying domestic wastewater of the town</p> <p>Cuttack : One major drain carrying domestic wastewater of a part of Cuttack city</p> <p>Paradeep : One major drain carrying domestic wastewater of the town through Atharabanki creek</p>				
13	Mangala (Along Puri)		Outlet of 15 MLD STP at Mangalaghat, Puri	-	18.0	17000
14	Nagavali (Jaykaypur to Rayagada)	-	Treated wastewater of STP and ETP at Jaykaypur, Rayagada			
15	Luna (along Bijipur)	-	No drain	-	-	-
16	Ratnachira (Along Bhubaneswar, Puri)	-	No drain	-	-	-
17	Rushikulya (Pratappur to Ganjam)	-	No drain	-	-	-
18	Sabulia (Jagannathpatna, Rambha)	-	No drain	-	-	-
19	Serua (Khandaeta to Sankhatrasa)	As in Sl. No. 3				

**FORMAT FOR SUBMISSION OF MONTHLY PROGRESS REPORT BY
OWSSB (HONBLE NGT IN THE MATTER OF OA. 673/2018 DATED
06.12.2019) ENDING AUGUST 2020**

Sl.	Activity to be monitored	Timeline	Progress/ compliance/ status																
1.	Ensure 100% treatment of sewage at least in situ remediation	31.03.2020	It is targeted to ensure treatment of 88 MLD sewage generated in 2 ULBs of the State by Dec'2020 and balance 279 MLD sewage generated in 4 ULBs of the state by March-2021. Quantity of sewage treated in ULBs as on July,2020 i. Puri - 14 mld ii. Cuttack - 50 mld iii. Talcher - <u>2 mld</u> Total - 66 mld																
	Commencement of setting up of STPs connecting all the drains and other sources of generation of sewage to the STPs must be ensured	31.03.2020	3 nos. STPs have been constructed for treating drain water of following towns. i. Cuttack : 33 MLD STP at Matgajpur ii. Puri : 5 MLD STP at Bankimuhan iii. Talcher : 2 MLD STP at Mandapal No other STPs are now under construction for treating of drain water.																
2.	Timeline for completing all steps of action plans including completion of setting up STPs & their commissioning.	31.03.2021	<table border="1"> <thead> <tr> <th colspan="2">Bhubaneswar Sewerage District-I</th> </tr> </thead> <tbody> <tr> <td>Sewerage Treatment Plant (STP) – 1 No (56 mld)</td> <td>49% work completed.</td> </tr> <tr> <th colspan="2">Bhubaneswar Sewerage District-II</th> </tr> <tr> <td>Sewerage Treatment Plant (STP) – 1 No (28mld)</td> <td>38% work completed.</td> </tr> <tr> <th colspan="2">Bhubaneswar Sewerage District-III</th> </tr> <tr> <td>Sewerage Treatment Plant (STP) – 1 No (43.5mld)</td> <td>62% work completed.</td> </tr> <tr> <th colspan="2">Bhubaneswar Sewerage District-IV</th> </tr> <tr> <td>Sewerage Treatment Plant (STP) – 1 No (8.5mld)</td> <td>45% work completed.</td> </tr> </tbody> </table>	Bhubaneswar Sewerage District-I		Sewerage Treatment Plant (STP) – 1 No (56 mld)	49% work completed.	Bhubaneswar Sewerage District-II		Sewerage Treatment Plant (STP) – 1 No (28mld)	38% work completed.	Bhubaneswar Sewerage District-III		Sewerage Treatment Plant (STP) – 1 No (43.5mld)	62% work completed.	Bhubaneswar Sewerage District-IV		Sewerage Treatment Plant (STP) – 1 No (8.5mld)	45% work completed.
Bhubaneswar Sewerage District-I																			
Sewerage Treatment Plant (STP) – 1 No (56 mld)	49% work completed.																		
Bhubaneswar Sewerage District-II																			
Sewerage Treatment Plant (STP) – 1 No (28mld)	38% work completed.																		
Bhubaneswar Sewerage District-III																			
Sewerage Treatment Plant (STP) – 1 No (43.5mld)	62% work completed.																		
Bhubaneswar Sewerage District-IV																			
Sewerage Treatment Plant (STP) – 1 No (8.5mld)	45% work completed.																		
		June 2021	<table border="1"> <thead> <tr> <th colspan="2">Bhubaneswar Sewerage District-VI</th> </tr> </thead> <tbody> <tr> <td>Sewerage Treatment Plant (STP)</td> <td>64.67 % work completed</td> </tr> </tbody> </table>	Bhubaneswar Sewerage District-VI		Sewerage Treatment Plant (STP)	64.67 % work completed												
Bhubaneswar Sewerage District-VI																			
Sewerage Treatment Plant (STP)	64.67 % work completed																		
		Dec. 2020	<table border="1"> <thead> <tr> <th colspan="2">Rourkela City</th> </tr> </thead> <tbody> <tr> <td>Sewerage Treatment Plant (STP) – 1 No (40 MLD)</td> <td>96% work completed.</td> </tr> </tbody> </table>	Rourkela City		Sewerage Treatment Plant (STP) – 1 No (40 MLD)	96% work completed.												
Rourkela City																			
Sewerage Treatment Plant (STP) – 1 No (40 MLD)	96% work completed.																		
		March 2021	<table border="1"> <thead> <tr> <th colspan="2">Sambalpur City</th> </tr> </thead> <tbody> <tr> <td>Sewerage Treatment Plant (STP) – 1 No (40mld)</td> <td>91% work completed.</td> </tr> </tbody> </table>	Sambalpur City		Sewerage Treatment Plant (STP) – 1 No (40mld)	91% work completed.												
Sambalpur City																			
Sewerage Treatment Plant (STP) – 1 No (40mld)	91% work completed.																		

4.1	Progress report may be comprised of details along with completion timeline on	Dec.2021	Polluting sources i.e. drains contributing to river pollution have been identified and detail information is being compiled.																																			
	i) Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in situ treatment.		At present proven technology is not available for in situ treatment of waste water in drain.																																			
	ii) <u>Status of STP (I&D) and Sewerage network.:</u> Details of existing infrastructure, gap analysis, proposed along with completion timeline.	Dec.2021	<table border="1"> <tr> <td>Sewerage Project Under ULBs</td> <td>Progress as on July 2020.</td> </tr> <tr> <td colspan="2" style="text-align: center;">Bhubaneswar Sewerage District-I</td> </tr> <tr> <td>Sewer network</td> <td>12.44/25.52 km (48.75 % completed)</td> </tr> <tr> <td>Sewerage Treatment Plant (STP) – 1 No (56 mld)</td> <td>49% Completed.</td> </tr> <tr> <td>Sewage Pumping Station</td> <td>3/5 (22%) civil work completed.</td> </tr> <tr> <td colspan="2" style="text-align: center;">Bhubaneswar Sewerage District-II</td> </tr> <tr> <td>Sewer network</td> <td>17.15/27.18 km (63.09 % completed)</td> </tr> <tr> <td>Sewerage Treatment Plant (STP) – 1 No (28 mld)</td> <td>38% Completed.</td> </tr> <tr> <td>Sewage Pumping Station</td> <td>11/14 Nos (26% completed).</td> </tr> <tr> <td colspan="2" style="text-align: center;">Bhubaneswar Sewerage District-III</td> </tr> <tr> <td>Sewer network</td> <td>19.94/97.11 km (20.53% completed)</td> </tr> <tr> <td>Sewerage Treatment Plant (STP) – 1 No (43.5 mld)</td> <td>62% Completed.</td> </tr> <tr> <td>Sewage Pumping Station</td> <td>5/9 Nos (40% completed)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Bhubaneswar Sewerage District-IV</td> </tr> <tr> <td>Sewer network</td> <td>13.42/14.23 km 94.31% completed.</td> </tr> <tr> <td>Sewerage Treatment Plant (STP) – 1 No. (8.5 MLD)</td> <td>45% completed</td> </tr> <tr> <td>Sewage Pumping Station</td> <td>¾ Nos 49% completed.</td> </tr> </table>		Sewerage Project Under ULBs	Progress as on July 2020.	Bhubaneswar Sewerage District-I		Sewer network	12.44/25.52 km (48.75 % completed)	Sewerage Treatment Plant (STP) – 1 No (56 mld)	49% Completed.	Sewage Pumping Station	3/5 (22%) civil work completed.	Bhubaneswar Sewerage District-II		Sewer network	17.15/27.18 km (63.09 % completed)	Sewerage Treatment Plant (STP) – 1 No (28 mld)	38% Completed.	Sewage Pumping Station	11/14 Nos (26% completed).	Bhubaneswar Sewerage District-III		Sewer network	19.94/97.11 km (20.53% completed)	Sewerage Treatment Plant (STP) – 1 No (43.5 mld)	62% Completed.	Sewage Pumping Station	5/9 Nos (40% completed)	Bhubaneswar Sewerage District-IV		Sewer network	13.42/14.23 km 94.31% completed.	Sewerage Treatment Plant (STP) – 1 No. (8.5 MLD)	45% completed	Sewage Pumping Station	¾ Nos 49% completed.
Sewerage Project Under ULBs	Progress as on July 2020.																																					
Bhubaneswar Sewerage District-I																																						
Sewer network	12.44/25.52 km (48.75 % completed)																																					
Sewerage Treatment Plant (STP) – 1 No (56 mld)	49% Completed.																																					
Sewage Pumping Station	3/5 (22%) civil work completed.																																					
Bhubaneswar Sewerage District-II																																						
Sewer network	17.15/27.18 km (63.09 % completed)																																					
Sewerage Treatment Plant (STP) – 1 No (28 mld)	38% Completed.																																					
Sewage Pumping Station	11/14 Nos (26% completed).																																					
Bhubaneswar Sewerage District-III																																						
Sewer network	19.94/97.11 km (20.53% completed)																																					
Sewerage Treatment Plant (STP) – 1 No (43.5 mld)	62% Completed.																																					
Sewage Pumping Station	5/9 Nos (40% completed)																																					
Bhubaneswar Sewerage District-IV																																						
Sewer network	13.42/14.23 km 94.31% completed.																																					
Sewerage Treatment Plant (STP) – 1 No. (8.5 MLD)	45% completed																																					
Sewage Pumping Station	¾ Nos 49% completed.																																					

		June 2021	Bhubaneswar SD-VI	166.34/254 kms (65.52% completed)
		March 2021	Sewer network for Cuttack Sewerage District-I, II & III	304.53/382 kms (79.34% completed)
		March 2021	Construction of 3 STP in Bhubaneswar & Cuttack	77.11 % completed.
		Dec. 2020	Rourkela City	
			Sewer network	158.68/235 km (67.52% completed)
			Sewerage Treatment Plant (STP) – 1 No (40 MLD)	96% Completed.
			Sewage Pumping Station	4/6 Nos (69% completed)
		March 2021	Sambalpur City	
			Sewer network	89.26/253kms (35.28% completed)
			Sewerage Treatment Plant (STP) – 1 No (40 mld)	91% Completed.
			Sewage Pumping Station	5/8 Nos (38% completed).

Details of Septage Management in the State of Odisha

Coverage of all ULBs 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. The status of Septage Management Plans undertaken in the State of Odisha is given below.

No. of ULBs	Total Estimated Project Cost	Plant Capacity (KLD)	Status of (Completion/ Ongoing)
10	25.30	440	Commissioned
26	83.48	450	Work under Progress by PHEO and targeted to complete during the year 2020-21
1	4.48	75	Work under Progress by OWSSB and targeted to complete during the year 2020-21
1	-	12	Work under Progress by Practical Action Team
29	116.63	630	Tender Evaluation is under progress and work targeted to be completed during the year 2021-22.
11	-	-	Identification and verification of land and preparation of DPRs for construction of SeTPs is under progress
Total No. of ULBs = 78		Total Capacity = 1607 KLD	

The details of septage management plants are given in following pages.

i) Status of construction of 10 nos. of SeTPs in 10 Nos. of ULBs.

Sl. No.	Name of the ULB	Estimated Project Cost (In Cr.)	Plant Capacity (In KLD)	Year of commissioning
1	Baripada	2.54	50	Dec. 2018
2	Berhampur	2.76	40	Oct. 2018
3	Bhubaneswar	3.59	75	-do-
4	Puri	1.73	50	Octo.2017
5	Rourkela	2.25	40	Oct. 2018
6	Sambalpur	1.93	20	Oct. -2018
7	Dhenkanal	2.85	27	-do-
8	Cuttack	2.20	60	Jan-2020
9	Balasore	2.92	60	-do-
10	Angul	2.53	18	-do-
	Total	25.30	440	

ii) Status of construction of 26 nos. of SeTP in 26 nos. of ULBs

Sl. No.	Name of the ULB	Estimated Project Cost (In Cr.)	Plant Capacity (In KLD)	Status
1	Balangir	3.39	30	Work under progress by PHEO & targeted to complete during the year 2020-21
2	Bhawanipatna	2.83	30	
3	Titilagarh	2.93	10	
4	Kesinga	2.83	10	
5	Khariar	2.76	10	
6	Kantabanjhi	2.87	10	
7	Barbil	2.78	20	
8	Joda	2.90	20	

Sl. No.	Name of the UI B	Estimated Project Cost (In Cr.)	Plant Capacity (In KLD)	Status
9	Kamakshyanagar	3.32	10	Work under progress by PHEO & targeted to complete during the year 2020-21
10	Aska	2.65	10	
11	Hinjilicut,	2.91	10	
12	Polasara	2.94	10	
13	Sorada	2.94	10	
14	Jatni	2.93	20	
15	Khurda	2.94	20	
16	Paradeep	3.01	20	
17	Banki	2.80	10	
18	Nayagarh	2.80	10	
19	Nimapara	2.80	10	
20	Jharsuguda,	4.05	40	
21	Brajaraj Nagar	3.42	30	
22	Sundargarh	3.01	20	
23	Belpahar	2.87	10	
24	Anandapur	2.98	10	
25	Basudevpur	2.74	10	
26	Nilagiri	2.88	10	
Total		77.29	410	

iii) Status of construction of 2nd SeTP at Rokati, Bhubaneswar and SeTP at Chowdwar.

Sl. No.	Name of the ULB	Estimated Project Cost (In Cr.)	Plant Capacity (In KLD)	Remarks
1	Bhubaneswar	4.48	75	Work under progress by OWSSB & Targeted to complete during year 2020-21.
2.	Chowdwar	-	12	Work under Progress by Practical Action Team

iv) Status of Construction of 2 nos. of SeTP at Hirakud & Burla

Sl. No.	Name of the ULB	Estimated Project Cost (In Cr.)	Plant Capacity (In KLD)	Status
1	Hirakud	3.05	20	Work under progress by PHFO & targeted to complete during the year 2020-21.
2	Burla	3.14	20	
	Total	6.19	40	

v) Status of construction of 29 nos. of ScTPs in 29 ULBs

Sl. No.	Name of the ULB	Estimated Project Cost (In Cr.)	Plant Capacity (In KLD)	Status
1	Baragarh	2.92	30	Tender Evaluation is under progress & work targeted to complete during the year 2021-22.
2	Biramitrapur	2.50	10	
3	Keonjhar	3.09	30	
4	Talcher	2.74	20	
5	Deogarh	2.51	10	
6	Jeypore	3.29	40	
7	Nabarangpur	2.87	20	
8	Malkangiri	2.81	20	
9	Patnagarh	2.56	10	
10	Boudhagarh	2.53	10	
11	Sonepur	2.57	10	
12	Vyasanagar	2.76	30	
13	Kendrapara	2.85	20	
14	Odgaon	2.58	10	
15	Dasapalla	2.56	10	
16	Khandapara	2.61	10	
17	Dhamanagar	3.05	10	
18	Chandabali	2.97	10	
19	Phulbani	2.74	20	
20	Karanjia	3.00	10	
21	Jagatsinghpur	2.72	20	
22	Rayagada	2.91	30	
23	Sunabeda	2.82	20	
24	Konark	2.56	10	
25	Khalikote	2.59	10	
26	Pattamundai	3.00	10	
27	Rairangpur	2.99	10	

28	Kuchinda	2.83	10	
29	Tarabha	2.88	10	
	Total	80.81	470	

vi) Status of Construction of 12 Nos SeTPs in 12 ULBs

Sl. No.	Name of the ULB	Estimated Project Cost (In Cr.)	Plant Capacity (In KLD)	Status
1	Baliguda	2.94	10	Tender Evaluation is under progress & work targeted to be completed during the year 2021-22.
2	G. Udaigiri	3.08	10	
3	Gudari	2.91	10	
4	Gunupur	2.94	10	
5	Kasinagar	2.82	10	
6	Paralakhemundi	3.08	20	
7	Purusottampur	2.85	10	
8	Rajgangpur	3.13	20	
9	Bhadrak	3.33	30	
10	Binika	2.89	10	
11	Rairkhole	2.96	10	
12	Digapahandi	2.89	10	
	Total	35.82	160	

vii) Identification and verification of land and preparation of DPRs for construction of SeTP in rest 11 Nos of ULBs of the State is under progress out of total 92 Nos.

Status on implementation of Action Plans for Restoration of identified Polluted River Stretches for ensuring compliance to Hon'ble NGT orders dated 20.09.2018, 19.12.2018 and 08.04.2019.

Industrial Effluent Management (under 17 Cat. of Industries in Head Office, Consent Administration)	
Identification of non-complying as well as illegal units	Nil
Closure Direction for non-complying and illegal units	Nil
Upgradation of existing captive ETPs or construction of new ETPs by individual industries.	5 Nos. 1) Rourkela Steel Plant, Rourkela has installed new ETP of capacity 1100m ³ for recirculation of Lagoon effluent in Hot Strip mill. 2) Neelachallspat Nigam Ltd, Jajpur – has modified it's BOD plant. 3) Emami Paper Mills Ltd., Balasore has upgraded ETP. 4) Grasim Industries Ltd., Ganjam has upgraded ETP. 5) Vedanta Ltd., (Smelter and CPP) Jharsuguda installed new ETP of 50m ³ /hr in the smelter plant.
Up-gradation of existing CETPs with state of Art technologies	No CETP in the State of Odisha
Commissioning of new CETPs with State of Art technologies	NA
Interception and diversion of industrial effluent from drains carrying industrial effluents.	Nil
Installation of OCEMS by industries and connectivity of all OCEMS with SPCB/ PCC and CPCB server.	Out of 22 nos. of industries 21 nos. of industries have installed CEQMS and connected to server of SPCB and CPCB. Only M/s. NSPCL, NTPC SAIL Power Corporation Ltd., Rourkela has not installed CEQMS as it has adopted recirculation of cooling tower blow down water of power plant in ash slurry making.
Utilization of treated effluent and reduction of water consumption by the industries.	3 Nos. 1) M/s. Jindal Stainless Ltd., Kalinganagar Jajpur - installed 50m ³ /hr RO plant at CPP to completely reuse the cooling blow down water. 2) M/s. Rourkela Steel Plant, Rourkela – recycled it's effluent from lagoon by treating in ETP and reused in Hot Strip Mill (1100m ³ /hr) out of 1975m ³ /hr. 3) M/s. Neelachallspat Nigam Ltd., Jajpur – utilized 150m ³ /hr blow down effluent in pig casting and slag granulation.
Adoption of zero liquid discharge by the industries as per Direction of CPCB.	Out of 22 nos. of industries 12 nos. of industries have already adopted ZLD. 3 nos. of industries have been directed to adopt ZLD. Other 7 nos. of industries discharging to river and sea after meeting prescribed standard.
Notification of PETP standards.	--
Awareness of training for the concerned authorities of O &M of ETPs/ CETPs	--

NB :Total 22 nos. of industries identified existing in the polluted river stretches of Odisha

Annexure-5

Management of Municipal Solid Waste in Urban Local Bodies situated along the Polluted River Stretches

Polluted River Stretches identified by CPCB		Name of Urban Local Body	MSW generation (TPD)	Disposal Practice	Waste Management Process
1	Gangua River (Along Bhubaneswar)	Bhubaneswar Municipal Corporation	520.34	Open Dumping	Biomanure (MCC)
2	Daya (Bhubaneswar to Bargarh)				
3	Kuakhai (Along Bhubaneswar)				
4	Guradih nallah (Rourkela)	Rourkela Municipal Corporation	120.0	Open Dumping	Partial Processing (MCC)
5	Brahmani (Rourkela to Biritol)				
6	Kathajodi (Cuttack to Urali)	Cuttack Municipal Corporation	366.0	Open Dumping	Biomanure (MCC)
7	Serua (Khandaeta to Sankhatrasa)				
8	Nandira Jhor (D/s of Talcher)	Talcher Municipality	18.0	Open Dumping	Partial Processing (MCC)
9	Banguru nallah (along Talcher, Rengali)				
10	Bheden (along Bheden)	Jharsuguda Municipality	29.0	Open Dumping	No Processing
11	Budhabalanga (Mahulia to Baripada)	Baripada Municipality	50.0	Open Dumping	No Processing
12	Kusumi (along Tangi)	No large ULB	-	-	-
13	Mahanadi (Sambalpur to Paradeep)	Sambalpur Municipal Corporation	100.0	Open Dumping	Partial Processing (MCC)
		Sonepur Municipality	3.5	Open Dumping	No Processing
		Paradeep Municipality	57.45	Open Dumping	Biomanure (MCC)
14	Mangala (Along Puri)	Puri Municipality	120.0	Open Dumping	Partial Processing (Vermicompost)
15	Nagavali (Jaykaypur to Rayagada)	Rayagada Municipality	27.0	Open Dumping	No Processing
16	Luna (along Bijipur)	No large ULB	-	-	-
17	Ratnachira	No large ULB	-	-	-

Polluted River Stretches identified by CPCB		Name of Urban Local Body	MSW generation (TPD)	Disposal Practice	Waste Management Process
18	Rushikulya (Pratappur to Ganjam)	Berhampur Municipal Corporation	143.0	Open Dumping	Partial Composting (MCC)
		Aska NAC	9.0	Open Dumping	Biomanure (MCC)
		Chhatrapur Municipality	8.6	Open Dumping	Biomanure (MCC)
19	Sabulia (Jagannathpatna, Rambha)	No large ULB	-	-	-

Latest Water quality of polluted river, its tributaries, drains and ground water quality in the catchment of Polluted river stretches during August, 2020

Polluted River stretch : August, 2020

Name of polluted river stretch	Name of Monitoring Station	pH	DO, mg/L	BOD, mg/L	TC, MPN/ 100 mL	FC, MPN/ 100 mL	FS, MPN/ 100 mL	Water Quality Status (Conforming (C) / Non-Conforming (NC))
1. Gangua nallah (D/s Bhubaneswar) (Priority-I)	Rajdhani Engineering College	6.9	2.5	5.2	92000	54000	170	NC
	Palasuni	6.8	2.3	5.4	160000	160000	220	NC
	Samantarapur	7.1	3.2	6.3	160000	92000	240	NC
	Vadimula	7.2	4.9	4.2	7900	2300	49	NC
2. Daya River (Bhubaneswar to Bargarh) (Priority-IV)	Bhubaneswar D/s at Kanti	7.3	4.6	3.9	5400	1700	2	NC
	Bhubaneswar FD/s at Manitri	7.3	5.3	2.9	2400	790	<1.8	NC
	Kanas	7.5	5.5	2.9	35000	17000		NC
3. Kuakhai River (Urali to Bhubaneswar) (Priority-IV)	Bhubaneswar FU/s	7.4	7.2	1.1	490	130	<1.8	C
	Bhubaneswar U/s	7.4	7	1.3	1300	330	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 Bhubaneswar city along Kuakhai River, Daya River and Gangua nallah

Station Name	Month	pH	BOD, mg/L	Nitrate- mg/L	TC, MPN/ 100 mL	FC, MPN/ 100 mL
Khandagiri Area	April, 2020	6.1	0.3	n.a.	<1.8	<1.8
Old town- Samantarapur Area	April, 2020	7.1	0.4	n.a.	33	4.5
Kalpana-Laxmisagar Area,	April, 2020	6.1	0.3	n.a.	79	4.5
Chandrasekharpur	April, 2020	6.5	0.3	n.a.	<1.8	<1.8
Capital Hospital Area,	April, 2020	5.1	0.7	n.a.	<1.8	<1.8
Secretariate- Govenor House-Old bus stand Area	April, 2020	No sampling as the area declared as Containment Zone to contain COVID 19 Pandemic				
Drinking water Specification (IS : 10500:2012) Desirable limit		6.5-8.5	-	45	Absent	Absent

n.a. : Not analysed

Polluted River stretch : August, 2020

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	8.4	3.6	54000	24000	11	NC
	Cuttack FD/s at Mattagajpur	7.5	8.4	3.3	13000	7900	4	NC
5. Serua River (Khandaeta to Sankhatrasa) (Priority-V)	Cuttack FD/s at Sankhatrasa	7.9	8.1	2.8	54000	22000	13	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 Cuttackcity along Mahanadi river, Kathajodi River and Serua river

Stn Name	Month	pH	BOD, mg/L	Nitrate-mg/L	TC, MPN/100 mL	FC, MPN/100 mL
Jagatpur	April, 2020	6.8	0.2	n.a.	2	<1.8
Mangalabag	April, 2020	7.3	0.2	n.a.	2	<1.8
Madhupatna-Kalyan Nagar Area	April, 2020	6.9	0.5	n.a.	1.8	1.8
Badambadi Area	April, 2020	7.3	0.6	n.a.	<1.8	<1.8
Bidanasi-Tulsipur Area,	April, 2020	7.6	0.2	n.a.	<1.8	<1.8
Drinking water Specification (IS : 10500:2012) Desirable limit		6.5-8.5	-	45	Absent	Absent

n.a. : Not analysed

Characteristic of Drains falling on Kathajodi river (August, 2020)

Sl. No.	Station Name	Parameters					
		pH	BOD, mg/l	COD, mg/l	TSS, mg/l	TC	FC
						MPN/100ml	
1	Outlet of STP, Cuttack at CDA-Bidanasi area (36 MLD)	7.4	2.3	11.1	7.0	<1.8	<1.8
2	Wastewater discharge to Kathajodi river through sluice gate at Khannagar	7.0	46.6	100.8	25.0	1t60000	92000
3	Wastewater discharge to Kathajodi river at Mattagajpur	6.5	1.8	14.7	5.0	3500	790

Polluted River stretch : August, 2020

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)	7.5	2.7	6.3	54000	17000	350	NC
7. Brahmani (Rourkela to Biritola) (Priority-V)	Panposh D/s at Deogaon	7.2	2.8	5.4	17000	7900	33	NC
	Rourkela D/s at Jalda	7.3	7.9	5.2	14000	3300	49	NC
	Rourkela FD/s at Attaghat	7.3	5.6	3.6	11000	3300	17	NC
	Rourkela FFD/s at Biritola	7.3	8.2	3.2	790	330	11	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)	

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

Polluted River stretch : August, 2020

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	7.8	5.4	1.7	790	230	4	C
9. Banguru nallah Along Talcher (Priority-V)	Along Talcher	7.9	6	1.6	3500	1700	13	C
Bathing Water Quality (MOEF Notification G.S.R. No. 742(E) Dt. 25.09.2000)		6.5-8.5	5.0	3.0	-	500 (Desirable) 2500 (permissible)	100 (Desirable) 500 (Maximum Permissible)	

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

Stn Name	Month	pH	BOD, mg/l	Nitrate- mg/l	TC, MPN/ 100 ml	FC, MPN/ 100 ml
Talcher Town	April, 2020	7.6	0.4	n.a.	<1.8	<1.8
Meramundali area	April, 2020	7.9	0.8	n.a.	<1.8	<1.8
Talcher Thermal area	April, 2020	7.6	0.7	n.a.	<1.8	<1.8
Banarpal	April, 2020	7.2	0.5	n.a.	<1.8	<1.8
Kulad	April, 2020	7.5	1.1	n.a.	<1.8	<1.8
Drinking water Specification (IS : 10500:2012) Desirable limit		6.5-8.5	-	45	Absent	Absent

n.a. : Not analysed

Polluted River stretch : August, 2020

Name of polluted river stretch	Name of Monitoring Station	pH	DO, mg/L	BOD, mg/L	TC, MPN/ 100 mL	FC, MPN/ 100 mL	FS, MPN/ 100 mL	Water Quality Status (Conforming (C) / Non-Conforming (NC))
10. Mahanadi (Sambalpur to Paradeep) (Priority-V)	Sambalpur D/s	7.6	7	1.9	3500	490	4	C
	Sambalpur FD/s at Shankarmath	7.2	7.2	1.3	2800	1300	17	C
	Sambalpur FFD/s at Huma	7.5	7.2	1.2	1700	490	11	C
	Sonepur U/s	7.7	7	1	490	130	2	C
	Sonepur D/s	8.2	6.6	1.1	790	230	4	C
	Tikarpada	7.5	6.8	1.6	790	230	11	C
	Narasinghpur	7.5	7.5	1.7	230	78	2	C
	Munduli	7.8	7.4	1	170	45	<1.8	C
	Cuttack U/s	7.5	8.1	0.8	330	130	<1.8	C
	Cuttack D/s	7.7	8.4	1.2	1700	490	11	C
	Cuttack FD/s	7.7	7.5	1	330	130	2	C
	Paradeep U/s	7.9	7	0.9	700	170	11	C
Paradeep D/s	8.4	6.6	1.5	130	20	4	C	
11. Bheden Along Bheden (Priority-V)	Jharsuguda	7.8	7.8	1.2	230	45	n.a.	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 (August, 2020)

Name of river	Name of Monitoring Station	pH	DO, mg/L	BOD, mg/L	TC, MPN/ 100 mL	FC, MPN/ 100 mL	FS, MPN/ 100 mL	Water Quality Status (Conforming (C) / Non-Conforming (NC))
Ib River	Sundargarh	7.6	8.2	1.6	1100	230	n.a.	C
	Jharsuguda	8	8.2	1.4	1100	230	n.a.	C
	BrajrajnagarU/S	7.9	8.4	1.1	490	78	n.a.	C
	BrajrajnagarD/S	7.7	7.6	1.4	700	130	n.a.	C
Ong River	Dharuakhaman	8.5	6.8	1.1	170	45	n.a.	C
Tel River	Monmunda	8.3	7	1.2	130	45	n.a.	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	April, 2020	7.9	0.7	n.a.	<1.8	<1.8
Near Railway station	April, 2020	7.4	0.4	n.a.	23	2
Near VSS Medical College, Burla	April, 2020	7.9	0.8	n.a.	<1.8	<1.8
Paradeep town Along Mahanadi River						
Badapadia market complex	April, 2020	8.3	0.7	n.a.	<1.8	<1.8
Musadiha	April, 2020	8.1	0.3	n.a.	7.8	2
Jharsuguda town in the catchment of Bheden river and Ib river						
Burkhamunda	April, 2020	6.9	0.4	n.a.	<1.8	<1.8
Badamal Industrial Estate	April, 2020	6.5	0.8	n.a.	<1.8	<1.8
Budhipadar	April, 2020	6.4	0.3	n.a.	<1.8	<1.8
Brajarajnagar Mining belt	April, 2020	7.1	0.7	n.a.	<1.8	<1.8
Rampur area (Water tank)	April, 2020	7.1	0.4	n.a.	<1.8	<1.8
Ib thermal power station	April, 2020	7.2	0.3	n.a.	<1.8	<1.8
Belpahar area	April, 2020	7.1	0.2	n.a.	<1.8	<1.8
Drinking water Specification (IS : 10500:2012) Desirable limit		6.5-8.5	-	45	Absent	Absent

n.a. : Not analysed

Polluted River stretch : August, 2020

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	6.2	1.3	3500	790	4	C
13. Nuna (Along Bijipur, Puri) (Priority-V)	Luna at Bijipur	7.1	6.8	1.6	54000	22000	130	NC
14. Ratnachira (Along Sakhigopal, Puri) (Priority-V)	Kumardihi	6.7	6.2	1.1	2200	490	4	C
Bathing Water Quality (MOEF Notification G.S.R. No. 742(E) Dt. 25.09.2000)		6.5-8.5	5.0	3.0	-	500 (Desirable) 2500 (permissible)	100 (Desirable) 500 (Maximum Permissible)	

Ground Water quality of Puri town along Mangala river

Stn Name	Month	pH	BOD, mg/l	Nitrate-mg/l	TC, MPN/100 ml	FC, MPN/100 ml
Hospital-Bus stand-Mausima temple area	April, 2020	7.9	0.2	n.a.	<1.8	<1.8
Near Jagannath Temple,	April, 2020	7.9	0.4	n.a.	<1.8	<1.8
Near Sea Beach	April, 2020	8.2	0.3	n.a.	13	<1.8
Baliapanda	April, 2020	7.8	0.4	n.a.	4.5	<1.8
Drinking water Specification (IS : 10500:2012)Desirable limit		6.5-8.5	-	45	Absent	Absent

n.a. : Not analysed

Characteristic of Drain falling on Mangala river (August, 2020)

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)	8.1	18.0	41.6	39.0	17000	7900

Polluted River stretch : August, 2020

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	7.5	6.1	1.7	2200	790	2	C
	Rayagada D/s	7.6	7.2	1.3	2200	490	2	C

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

Polluted River stretch : August, 2020

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	7.2	6	1.9	7900	2200	79	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 : August, 2020

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	7.2	6.4	2.0	3500	1300	<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 Tangi town by State Pollution Control Board, Odisha

Polluted River stretch : August, 2020

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	7.4	7.2	1.6	17000	4900	4	NC
	Potagarh	7.9	6.5	1.3	230	78	4	C
19. Sabulia Along Jagannathpatna, Rambha (Priority-V)	Jagannathpatna, Rambha	7.6	5.8	1.7	2200	1100	<1.8	C
Bathing Water Quality (MOEF Notification G.S.R. No. 742(E) Dt. 25.09.2000)		6.5-8.5	5.0	3.0	-	500 (Desirable) 2500 (permissible)	100 (Desirable) 500 (Maximum Permissible)	

Ground Water quality of Berhampur town in the catchment of Rushikulya river

Stn Name	Month	pH	BOD, mg/l	Nitrate-mg/l	TC, MPN/100 ml	FC, MPN/100 ml
Near MKCG Medical College	April, 2020	7.2	0.2	n.a.	<1.8	<1.8
Bus stand	April, 2020	7.9	0.4	n.a.	17	4.5
Badabazar	April, 2020	7.1	0.7	n.a.	<1.8	<1.8
Railway station	April, 2020	7.3	0.3	n.a.	<1.8	<1.8
Drinking water Specification (IS : 10500:2012) Desirable limit		6.5-8.5	-	45	Absent	Absent

n.a. : Not analysed

Status of Polluted River stretches in the State of Odisha during the period 2017-2020 as on date

Sl. No.	Polluted River Stretches identified by CPCB	Priority Category of Polluted River stretch				Remarks (As on 2020)
		2017 (BOD mg/l, max)	2018 (BOD mg/l, max)	2019 (BOD mg/l, max)	2020 (upto August) (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 has been reduced from I to III (Improved)
2	Daya (Bhubaneswar to Bargarh)	Priority-IV (7.3)	Priority-IV (7.4)	Priority-IV (7.3)	Priority-V (4.7)	Priority 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 has been increased from V to IV (Deteriorated)
4	Guradih nallah (Rourkela)	Priority-III (11.3)	Priority-IV (10.1)	Priority-IV (8.5)	Priority-IV (7.6)	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)	No Improvement
6	Nagavali (Jaykaypur to Rayagada)	Priority-V (3.5)	Clean (2.8)	Clean (2.2)	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 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)	No Improvement
9	Ratnachira (Along Bhubaneswar, Puri)	Priority-V (3.3)	Priority-V (3.5)	Clean (2.7)	Clean (1.7)	Clean (Improved)
10	Nandira Jhor (D/s of Talcher)	Priority-III (13.0)	Priority-V (3.5)	Clean (1.9)	Clean (1.9)	Clean (Improved)
11	Kuakhai (Along Bhubaneswar)	Priority-IV (7.7)	Clean (1.6)	Clean (1.9)	Clean (1.8)	Clean (Improved)
12	Mahanadi (Sambalpur to Paradeep)	Priority-V (3.2)	Clean (2.3)	Clean (2.3)	Clean (2.7)	Clean (Improved)
13	Rushikulya (Pratappur to Ganjam)	Priority-V (3.4)	Priority-V (3.7)	Clean (2.6)	Clean (2.1)	Clean (Improved)
14	Banguru nallah (Along Talcher, Rengali)	Priority-V (3.2)	Priority-V (3.9)	Clean (1.9)	Clean (1.6)	Clean (Improved)
15	Bheden (Along Bheden)	Priority-V (3.6)	Clean (2.8)	Clean (2.0)	Clean (1.8)	Clean (Improved)
16	Kusumi (Along Talcher)	Priority-V (3.2)	Clean (1.7)	Clean (2.6)	Clean (2.0)	Clean (Improved)
17	Nuna (Along Bijipur)	Priority-V (3.1)	Clean (2.7)	Clean (2.5)	Clean (1.6)	Clean (Improved)
18	Sabulia (Jagannathpatna, Rambha)	Priority-V (5.0)	Clean (2.4)	Clean (2.2)	Clean (1.7)	Clean (Improved)
19	Budhabalanga (Mahulia to Baripada)	Priority-V (3.5)	Clean (2.8)	Clean (1.6)	Clean (1.9)	Clean (Improved)

**Summary of Number of Polluted River Stretches under
Different Category during the Period 2017-2020 as on date**

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) (upto August)
Priority-I	1	1	1	Nil
Priority-II	Nil	Nil	Nil	Nil
Priority-III	3	Nil	Nil	1
Priority-IV	2	3	3	2
Priority-V	13	7	3	4
		8 (Clean)	12 (Clean)	12 (Clean)
Total :	19	19	19	19

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

Water quality of Rivers in Odisha during August, 2020

(a) Mahanadi River System

Name of River	Sl. No.	Name of Monitoring Station	pH	DO, mg/L	BOD, mg/L	TC, MPN/100 mL	FC, MPN/100 mL	FS, MPN/100 mL	Water Quality Status (Conforming (C)/ Non-Conforming (NC))
Ib	1	Sundargarh	7.6	8.2	1.6	1100	230	n.a.	C
	2	Jharsuguda	8	8.2	1.4	1100	230	n.a.	C
	3	BrajrajnagarU/S	7.9	8.4	1.1	490	78	n.a.	C
	4	BrajrajnagarD/S	7.7	7.6	1.4	700	130	n.a.	C
Bheden	5	Jharsuguda	7.8	7.8	1.2	230	45	n.a.	C
Hirakud Reservoir	6	Hirakud	7.7	7.8	1.2	460	170	n.a.	C
Mahanadi	7	Sambalpur U/S	7.4	6.8	1	490	130	n.a.	C
	8	Sambalpur D/S	7.6	7	1.9	3500	490	4	C
	9	Sambalpur FD/S at Shankarmath	7.2	7.2	1.3	2800	1300	17	C
	10	Sambalpur FD/S at Huma	7.5	7.2	1.2	1700	490	11	C
	11	Power Channel U/S	7.6	7	1.1	330	78	n.a.	C
	12	Power Channel D/S	7.4	7.2	1.4	490	130	n.a.	C
	13	Sonepur U/S	7.7	7	1	490	130	2	C
	14	Sonepur D/S	8.2	6.6	1.1	790	230	4	C
	15	Tikarpada	7.5	6.8	1.6	790	230	11	C
	16	Narasinghpur	7.5	7.5	1.7	230	78	2	C
	17	Munduli	7.8	7.4	1	170	45	<1.8	C
	18	Cuttack U/s	7.5	8.1	0.8	330	130	<1.8	C
	19	Cuttack D/s	7.7	8.4	1.2	1700	490	11	C
	20	Cuttack FD/s	7.7	7.5	1	330	130	2	C
21	Paradeep U/S	7.9	7	0.9	700	170	11	C	
22	Paradeep D/S	8.4	6.6	1.5	130	20	4	C	
Ong	23	Dharuakhaman	8.5	6.8	1.1	170	45	n.a.	C
Tel	24	Monmunda	8.3	7	1.2	130	45	n.a.	C
Kathajodi	25	Cuttack U/s	8.1	7.8	0.9	230	78	n.a.	C
	26	Cuttack D/s	8	8.4	3.6	54000	24000	11	NC
	27	Cuttack FD/s at Mattagajpur	7.5	8.4	3.3	13000	7900	4	NC
	28	Cuttack FFD/s at Kamasasan	8.1	7.1	1	490	230	n.a.	C
Serua	29	Cuttack FD/s at Sankhatrasa	7.9	8.1	2.8	54000	22000	13	NC
Kuakhai	30	Bhubaneswar FU/s	7.4	7.2	1.1	490	130	<1.8	C
	31	Bhubaneswar U/s	7.4	7	1.3	1300	330	2	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))
Daya	32	Gelapur	7	4.7	1.4	2400	790	n.a.	C
	33	Bhubaneswar D/s	7.3	4.6	3.9	5400	1700	2	NC
	34	BhubaneswarFD/s	7.3	5.3	2.9	2400	790	<1.8	C
	35	Kanas	7.5	5.5	2.9	35000	17000	n.a.	NC
Birupa	36	Choudwar	7.7	6.2	1	1100	490	n.a.	C
Gangua nallah	37	Rajdhani Engineering College	6.9	2.5	5.2	92000	54000	170	NC
	38	Palasuni	6.8	2.3	5.4	160000	160000	220	NC
	39	Samantarapur	7.1	3.2	6.3	160000	92000	240	NC
	40	Vadimula	7.2	4.9	4.2	7900	2300	49	NC
Kushabhadra	41	Bhingarpur	7.3	5.7	2.1	17000	7900	n.a.	NC
	42	Nimapara	7.4	5.8	2	13000	4900	n.a.	NC
	43	Gop	7.2	5.3	2.1	22000	13000	n.a.	NC
Gobari	44	Kendrapada U/s	8.2	6	0.7	230	20	n.a.	C
	45	Kendrapada D/s	8.2	5.8	0.9	490	45	n.a.	C
Mangala	46	Mangala U/s at Malatipatpur	7.3	6.8	0.8	1700	330	n.a.	C
	47	Mangala D/s at Golasahi	7.4	6.2	1.3	3500	790	4	C
Bhargavi	48	Chandanpur	7.3	6.5	1.4	2200	330	n.a.	C
Devi	49	Machhagaon	8.2	7	0.9	170	20	n.a.	C
Luna	50	Luna at Bijipur	7.1	6.8	1.6	54000	22000	130	NC
Sabulia	51	Rambha, Jagatnathpatna	7.6	5.8	1.7	2200	1100	<1.8	C
Kusumi	52	Tangi	7.2	6.4	2	3500	1300	<1.8	C
Kansari	53	Banapur	7.5	6	1.1	1100	490	n.a.	C
Badasankha	54	Langalaeswar	7.7	6.1	1.6	330	130	n.a.	C
Ratnachira	55	Kumardihi	6.7	6.2	1.1	2200	490	4	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)	-

n.a. : 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	7.3	8.4	1.2	2400	490	n.a.	C
	2	Panposh D/S	7.2	2.8	5.4	17000	7900	33	NC
	3	Rourkela D/S at Jalda	7.3	7.9	5.2	14000	3300	49	NC
	4	Rourkela FD/s at Attaghat	7.3	5.6	3.6	11000	3300	17	NC
	5	Rourkela FFD/s at Biritola	7.3	8.2	3.2	790	330	11	NC
	6	Bonaigarh	7.4	8.5	1.4	490	130	n.a.	C
	7	Rengali	7.4	5.8	1	130	<1.8	n.a.	C
	8	Samal	7.2	5.6	1.3	1300	330	n.a.	C
	9	Talcher FU/S	7.4	6.8	0.9	490	130	<1.8	C
	10	Talcher U/s	7.5	6.6	1	790	170	2	C
	11	Mandapal	7.6	6.6	1	490	170	n.a.	C
	12	Talcher D/S	7.9	6.6	1.4	1100	220	4	C
	13	Talcher FD/S	7.6	6.8	1.3	490	110	<1.8	C
	14	Dhenkanal U/s	7.9	5.8	1.5	330	78	n.a.	C
	15	Dhenkanal D/s	7.8	5.4	1.7	790	230	4	C
	16	Bhuban	7.5	6	1.3	790	170	2	C
	17	Kabatabandha	7.7	6.4	1.1	230	78	n.a.	C
	18	Dharmasala U/s	7.5	5.8	1.5	330	130	n.a.	C
	19	Dharmasala D/s	8.1	6.8	1.8	1300	330	n.a.	C
	20	Pottamundai	7	7.4	1.6	3500	1300	n.a.	C
Kharasrota	21	Khanditara	7.4	7.7	1.6	2400	1300	n.a.	C
	22	Binjharpur	7.6	7.5	1.9	3500	1700	n.a.	C
	23	Ali	7.7	6.8	1.5	3500	790	n.a.	C
Nandira jhor	24	Nandira U/s	7.6	7.6	1.8	1700	490	n.a.	C
	25	Nandira D/s	7.8	7.5	0.8	1300	330	n.a.	C
Kisindajhor	26	Kisindajhor	7.9	7.2	1	330	78	n.a.	C
Sankh	27	Sankh U/s	7.4	8.5	0.8	1300	330	n.a.	C
Koel	28	Koel U/s	7.4	8.1	1.6	3500	790	n.a.	C
Guradi nallah	28	Rourkela (before confluence with Brahmani river)	7.5	2.7	6.3	54000	17000	350	Drain
Badajhor	30	Badajhor	7.7	5.4	1.4	3500	790	n.a.	C
Damsala	31	Dayanabil	7.3	7.4	1.4	790	220	n.a.	C
Gondanallah	32	Marthapur	7.1	7.3	1.6	1100	330	n.a.	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))
Karo	33	Barbil	7.5	6.8	1.3	790	130	n.a.	C
Lingra	34	Lingira U/s	8.1	6.8	1.5	230	78	n.a.	C
	35	Lingira D/s	8.1	6.6	1.3	490	130	n.a.	C
Ramiala	36	Kamakhyanagar	7.7	6.4	1.2	1700	790	n.a.	C
Bangurunallah	37	Bangurunallah	7.9	6	1.6	3500	1700	13	C
Singadajhor	38	Singadajhor	7.3	4.6	1.1	790	130	n.a.	C
Tikira	39	KanihaU/s	8.1	6	1.1	790	220	n.a.	C
	40	KanihaD/s	7.7	6.2	1.3	2800	790	n.a.	C
Bangurusingadajhor	41	Bangurusingadajhor	7.8	5.8	1.6	1300	220	n.a.	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	7.2	4.9	1.6	790	130	n.a.	C
Kusei	2	Deogaon	7.8	5.8	1.2	1700	330	n.a.	C
Baitarani	3	Naigarh	7.2	5.9	1.5	1100	460	n.a.	C
	4	Unchabali	7.4	5.8	1.3	1700	490	n.a.	C
	5	Champua	7.6	6.3	1.8	1300	330	n.a.	C
	6	Tribindha	7.5	5.8	1.6	490	130	n.a.	C
	7	Joda	7.7	6.2	1.6	790	170	n.a.	C
	8	Anandpur	7.5	5.6	1.5	2200	490	n.a.	C
	9	Jajpur	7.8	7.7	1	790	230	n.a.	C
	10	Chandbali U/s	7.4	6	0.9	1300	330	n.a.	C
	11	Chandbali D/s	7.7	6.4	1	2200	790	n.a.	C
Dhamra	12	Dhamra	7.8	6.4	1.1	2400	490	n.a.	C
Salandi	13	Bhadrak U/s	7.4	6	1.2	1700	700	n.a.	C
	14	Bhadrak D/s	7.3	6	2	2400	790	n.a.	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)	-

n.a. : Not analysed

D : Desirable P : Permissible

(D) Rushikulya River system

Name of River	Sl. No.	Name of Monitoring Station	pH	DO, mg/L	BOD, mg/L	TC, MPN/100 mL	FC, MPN/100 mL	FS, MPN/100 mL	Water Quality Status (Conforming (C)/ Non-Conforming (NC))
Russelkunda Reservoir	1	Russelkunda Reservoir	7.2	7.2	1.6	9200	5400	n.a.	NC
Badanadi	2	Aska	8	7.2	1.1	3500	1300	n.a.	C
Rushikulya	3	Aska	7.6	6.5	0.9	1100	230	n.a.	C
	4	Nalabanta	8.2	7.7	1	3500	1100	n.a.	C
	5	Madhopur	7.4	7.2	1.6	17000	4900	4	NC
	6	Potagarh	7.9	6.5	1.3	230	78	4	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) Subarnarekha River system

Name of River	Sl. No.	Name of Monitoring Station	pH	DO, mg/L	BOD, mg/L	TC, MPN/100 mL	FC, MPN/100 mL	FS, MPN/100 mL	Water Quality Status (Conforming (C)/ Non-Conforming (NC))
Subarnarekha	1	Rajghat	8.1	6.8	1.3	790	170	n.a.	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)	-

n.a. : Not analysed

D : Desirable P : Permissible

(G) 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	7.2	6	1.9	7900	2200	79	C
	2	Balasore U/s	7.8	6.8	1	1100	330	n.a.	C
	3	Balasore D/s	7.5	6	1.6	3500	1300	n.a.	C
	4	Hatiagond (Sona)	7.7	6.4	1.4	330	78	n.a.	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)	-

(K) 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	7.9	6.2	1.8	3500	1300	n.a.	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)	-

n.a. : Not analysed

D : Desirable P : Permissible

(E) 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	7.5	6.2	1.1	1100	330	n.a.	
	2	Jayjkaypur D/s	7.5	6.1	1.7	2200	790	2	
	3	Rayagada D/s	7.6	7.2	1.3	2200	490	2	

(H) Vansadhara River system

Name of River	Sl. No.	Name of Monitoring Station	pH	DO, mg/L	BOD, mg/L	TC, MPN/100 mL	FC, MPN/100 mL	FS, MPN/100 mL	Water Quality Status (Conforming (C)/ Non-Conforming (NC))
Vansadhara	1	Muniguda	7.3	6.9	1.1	1700	330	n.a.	
	2	Gunupur	7.6	6.7	0.9	1400	490	n.a.	

(I) Kolab River system

Name of River	Sl. No.	Name of Monitoring Station	pH	DO, mg/L	BOD, mg/L	TC, MPN/100 mL	FC, MPN/100 mL	FS, MPN/100 mL	Water Quality Status (Conforming (C)/ Non-Conforming (NC))
Kerandi	1	Sunabeda	7.3	7.3	0.9	2400	490	n.a.	

(J) 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	7.5	7.1	1.2	3500	490	n.a.	

INFORMATION ON BIOMEDICAL WASTE MANAGEMENT

Name of the District	* Name of Urban Local Body	Total number of Health care establishments (In the district)	Biomedical waste generation	Treatment/ Disposal Practice	Gaps in treatment	Commissioning of new Common Biomedical Waste Treatment and Disposal Facilities) (Please indicate the appropriate one and provide details)	Ensuring disposal of Biomedical waste through captive measures by the Healthcare Facilities where there is CBMWTF	Implementation of Barcode system by Healthcare facilities and CBMWTF	Upgradation of existing CBMWTF
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Khurda	1. Bhubaneswar Municipal Corporation	218	3731.8	CBWTF & Captive	Gaps analysis not made.	----	Yes	Bar-code system has been implemented in CBWTF & some HCFs. Implementation in other HCFs availing the services of CBWTF is in progress.	Yes
Cuttack	2. Cuttack Municipal Corporation	518	5355.6	CBWTF & Captive		----	Yes	Bar-code system has been implemented in CBWTF & some HCFs. Implementation in other HCFs availing the services of CBWTF is in progress.	Partly. (One out of two CBWTFs upgraded)
Sambalpur	3. Sambalpur Municipal Corporation	124	926.6	CBWTF & Captive		----	Yes	Bar-code system has been implemented in CBWTF & some HCFs. Implementation in other HCFs availing the services of CBWTF is in progress.	----

Sundargarh	4. Rourkela Municipal Corporation	264	1323.82	CBWTDF & Captive		----	Yes	Bar-code system has been implemented in CBWTDF & some HCFs. Implementation in other HCFs availing the services of CBWTDF is in progress.	----
Ganjam	5. Berhampur Municipal Corporation, Aska NAC & Chhatrapur Municipality	264	264.922	CBWTDF & Captive		One, M/s. Mediaid Marketing Services, vill: Arakhapada, Tehsil- Seragada, Dist: Ganjam.	Yes	Bar-code system implementation in CBWTDF & HCFs is in progress.	----
Jharsuguda	6. Jharsuguda Municipality	62	464.536	Captive		----	Yes	----	----
Puri	7. Puri Municipality	116	296.828	Captive		----	Yes	----	----
Rayagada	8. Rayagada Municipality	80	264.922	Captive		----	Yes	----	----
Angul	9. Angul Municipality & Talcher Municipality	129	581.993	Captive		----	Yes	----	----
Subarnapur	10. Sonapur Municipality	32	119.145	Captive		----	Yes	----	----
Jagatsinghpur	11. Paradeep Municipality	68	243.351	Captive		----	Yes	----	----
Mayurbhanj	13. Baripada Municipality	128	519.78	Captive		----	Yes	----	----
Balasore	14. Balasore Municipality	162	526.463	Captive		----	Yes	----	----
N.B:- Information is provided districtwise as no information available ULB wise in the section.									

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-I), 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. It is under tendering process.

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 (Provision)	300 Nos	6000 Nos	A provision of Rs. 37 crores has been kept for construction of RRHS.

Ground Water Recharge

i) Through Wells (recharge shaft on Tanks and pond)	2019-20	nil
	2020-21	65 nos. in 11 districts (work will be completed in 2020-21)
ii) Through Check dams	up to 03/2020	15612 nos. in 30 districts
	up to 07/2020	15740 nos. in 30 districts (A provision of Rs. 67 crores has been kept for construction of check dams in 30 districts)

F. Setting up of Biodiversity Parks, Greenery/

Plantation along the banks of river stretch - Yes

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)

G. Removal of encroachments

No cases of encroachment have been noticed so far.

