

**Compliance of Minutes of 4th Meeting of Central Monitoring Committee held on
30.07.2020 through Video Conferencing**

Suggestions of 4th CMC Meeting	Compliance by OSPCB
1) Details of town-wise and stretch-wise septage management undertaken in the entire State.	Requested to Housing and Urban Development Department to furnish details vide letter No. 7536 dated 20.08.2020
2) Quantity of industrial effluent generated, number and capacity of installed ETPs	Information regarding 17 categories of industries operating in the polluted river stretches has been provided in Page No. 11 of the MPR for July, 2020.
3) Provide the information with regard to polluted river stretches as well as for the entire state.	Information regarding latest water quality status of polluted river stretches as well as of the rivers monitored in whole of the State has been provided in Page 14-31 of the MPR for July, 2020.

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 : July, 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 given in Annexure-3 (page-8-10)
(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-11).
(iv)	Status of Solid Waste Management and Details of Processing facilities and Existing infrastructure, Gap analysis, Proposed alongwith completion timeline	Information given in Annexure-5 (Page- 12,13).
(v)	Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;	Latest water quality status of polluted river stretches during July,2020 with respect to six parameters such as pH, DO, BOD, Total Coliform, Fecal Coliform and Fecal Streptococcus is given in Annexure-6 (a) (Page-14- 22). Comparison of priorities of polluted river stretches during the period 2017 -2020 (as on July, 2020) is given in Annexure-6 (b) (Page- 23).

		<p>Summary of number of polluted river stretches under different category during the period 2017-2020 (upto July, 2020) is given in Annexure-6 (c) (Page-24).</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 July, 2020 is given in Annexure-6(d) (Page- 25- 31).</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> <ol style="list-style-type: none"> 1) M/s. Sani Clean Pvt. Ltd., Khurda, 2) M/s Mediaid Marketing Services, Bhubaneswar at SCB Medical College and Hospital, Cuttack 3) M/s Mediaid Marketing Services, Bhubaneswar at Rourkela Govt. Hospital, Rourkela 4) M/s. Bio-Tech Solutions, at VSS Medical College and Hospital Burla, Sambalpur. <p>Biomedical Waste generation and management in the</p>

		Municipalities along the polluted river stretches is given in Annexure-7 (Page-32-33)
(vii)	Ground Water Regulation	Information given in Annexure-8. (Page-34-35)
(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) (July, 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	-	-	-
			Sainik School	-	-	-
			OAP area	-	-	-
			Vani Vihar	-	-	-
			Laxmisagar area	-	-	-
			Baragada Area	-	-	-
			Kedargouri	-	-	-
			Airport area	-	-	-
			Ghatikia	-	-	-
Nicco Park	-	-	-			
2.	Guradih nallah (Rourkela)	1 No.	Industrial	-	-	-
3	Kathajodi (Cuttack to Urali)	3 Nos.	Domestic			
			Outlet of STP at CDA-Bidanasi area	-	3.8	<1.8
			Wastewater discharge to Kathajodi river through sluice gate at Khannagar	-	24.8	160000
			Outlet of STP at Mattagajpur discharge to Kathajodi river	-	2.3	1700
4	Nandira Jhor (D/s of Talcher)	1 No.	Kisinda jhor, a natural storm water drain carrying treated industrial discharge	-	1.4	45

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	-	7.4*	116500*
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	-	7.6	24000
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	-	12.5	1300
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 JULY 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 - 2 mld 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>48% 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>26% 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>36% work completed.</td> </tr> <tr> <th colspan="2">Bhubaneswar Sewerage District-VI</th> </tr> <tr> <td>Sewerage Treatment Plant (STP)</td> <td>64.45 % work completed</td> </tr> <tr> <th colspan="2">Rourkela City</th> </tr> <tr> <td>Sewerage Treatment Plant (STP) – 1 No (40 MLD)</td> <td>95.0% work completed.</td> </tr> <tr> <th colspan="2">Sambalpur City</th> </tr> <tr> <td>Sewerage Treatment Plant (STP) – 1 No (40mld)</td> <td>91% work completed.</td> </tr> </tbody> </table>	Bhubaneswar Sewerage District-I		Sewerage Treatment Plant (STP) – 1 No (56 mld)	48% work completed.	Bhubaneswar Sewerage District-II		Sewerage Treatment Plant (STP) – 1 No (28mld)	26% 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)	36% work completed.	Bhubaneswar Sewerage District-VI		Sewerage Treatment Plant (STP)	64.45 % work completed	Rourkela City		Sewerage Treatment Plant (STP) – 1 No (40 MLD)	95.0% work completed.	Sambalpur City		Sewerage Treatment Plant (STP) – 1 No (40mld)	91% work completed.
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<p>6.1 Progress report may be comprised of details along with completion timeline on</p> <p>i) Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in situ treatment.</p> <p>ii) <u>Status of STP (I&D) and Sewerage network.:</u></p> <p>Details of existing infrastructure, gap analysis, proposed along with completion timeline.</p>	<p>Dec.2021</p>	<p>Polluting sources i.e. drains contributing to river pollution have been identified and detail information is being compiled.</p> <p>At present proven technology is not available for in situ treatment of waste water in drain.</p> <table border="1"> <thead> <tr> <th>Sewerage Project Under ULBs</th> <th>Progress as on July 2020.</th> </tr> </thead> <tbody> <tr> <td colspan="2" style="text-align: center;">Bhubaneswar Sewerage District-I</td> </tr> <tr> <td>Sewer network</td> <td>12.16/25.52 km (47.65 % completed)</td> </tr> <tr> <td>Sewerage Treatment Plant (STP) – 1 No (56 mld)</td> <td>48% Completed.</td> </tr> <tr> <td>Sewage Pumping Station</td> <td>3/5 (21.7%) 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>16.53/27.18 km (60.81 % completed)</td> </tr> <tr> <td>Sewerage Treatment Plant (STP) – 1 No (28 mld)</td> <td>26% 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>19.27/97.11 km (19.84% 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>12.41/14.23 km (87.21% completed)</td> </tr> <tr> <td>Sewerage Treatment Plant (STP) – 1 No (8.5 mld)</td> <td>36.0% Completed.</td> </tr> <tr> <td>Sewage Pumping Station</td> <td>3/4 Nos (39% completed)</td> </tr> <tr> <td>Bhubaneswar SD-VI</td> <td>165.13/254 kms (65.05% completed)</td> </tr> </tbody> </table>	Sewerage Project Under ULBs	Progress as on July 2020.	Bhubaneswar Sewerage District-I		Sewer network	12.16/25.52 km (47.65 % completed)	Sewerage Treatment Plant (STP) – 1 No (56 mld)	48% Completed.	Sewage Pumping Station	3/5 (21.7%) civil work completed.	Bhubaneswar Sewerage District-II		Sewer network	16.53/27.18 km (60.81 % completed)	Sewerage Treatment Plant (STP) – 1 No (28 mld)	26% Completed.	Sewage Pumping Station	11/14 Nos (26% completed)	Bhubaneswar Sewerage District-III		Sewer network	19.27/97.11 km (19.84% 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	12.41/14.23 km (87.21% completed)	Sewerage Treatment Plant (STP) – 1 No (8.5 mld)	36.0% Completed.	Sewage Pumping Station	3/4 Nos (39% completed)	Bhubaneswar SD-VI	165.13/254 kms (65.05% completed)
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		Dec.2021	Sewer network for Cuttack Sewerage District-I, II & III	303.10/382 kms (79.34% completed)
			Construction of 3 STP in Bhubaneswar & Cuttack	76.86 % completed.
			Rourkela City	
			Sewer network	157.80/235 km (67.14% completed)
			Sewerage Treatment Plant (STP) – 1 No (40 MLD)	95% Completed.
			Sewage Pumping Station	4/6 Nos (67% completed)
			Sambalpur City	
			Sewer network	88.64/253kms (35.03% completed)
			Sewerage Treatment Plant (STP) – 1 No (40 mld)	91% Completed.
			Sewage Pumping Station	5/8 Nos (38% completed.

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 1100 m ³ for recirculation of Lagoon effluent in Hot Strip mill. 2) Neelachal Ispat 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 50 m 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 (1100 m ³ /hr) out of 1975 m ³ /hr. 3) M/s. Neelachal Ispat 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 July, 2020**

Polluted River stretch : July, 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	7.0	1.5	5.7	160000	160000	280	NC
	Palasuni	6.8	2	8.8	160000	160000	220	NC
	Samantarapur	6.9	1.2	9.8	160000	92000	130	NC
	Vadimula	6.9	3.4	5.3	92000	54000	n.a.	NC
2. Daya River (Bhubaneswar to Bargarh) (Priority-IV)	Bhubaneswar D/s at Kanti	7.8	4.3	4.7	92000	54000	49	NC
	Bhubaneswar FD/s at Manitri	7.3	4.1	3.3	24000	13000	33	NC
	Kanas	7.0	5.8	1.6	11000	490	n.a.	NC
3. Kuakhai River (Urali to Bhubaneswar) (Priority-IV)	Bhubaneswar FU/s	7.9	6.3	0.9	3500	1300	7.8	C
	Bhubaneswar U/s	8.0	6.1	1.1	4600	1700	14	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
Chandrasekharapur	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 : July, 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	7.8	7.2	3.4	7900	4900	4.5	NC
	Cuttack FD/s at Mattagajpur	7.2	8.4	2.5	13000	4900	n.a.	NC
5. Serua River (Khandaeta to Sankhatrasa) (Priority-V)	Cuttack FD/s at Sankhatrasa	7.7	7.8	3.8	5400	1700	n.a.	NC
Bathing Water Quality (MOEF Notification G.S.R. No. 742(E) Dt. 25.09.2000)		6.5-8.5	5.0	3.0	-	500 (Desirable) 2500 (permissible)	100 (Desirable) 500 (Maximum Permissible)	

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

Stn Name	Month	pH	BOD, mg/L	Nitrate-mg/L	TC, MPN/100 mL	FC, MPN/100 mL
Jagatpur	April, 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 (July, 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)	6.7	3.8	15.5	6.0	<1.8	<1.8
2	Wastewater discharge to Kathajodi river through sluice gate at Khannagar	7.2	24.8	58.3	15.0	160000	160000
3	Wastewater discharge to Kathajodi river at Mattagajpur	7.5	2.3	15.5	12.0	3300	1700

Polluted River stretch : July, 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)	7.9	2.3	7.6	54000	24000	n.a.	NC
7. Brahmani (Rourkela to Biritola) (Priority-V)	Panposh D/s at Deogaon	7.0	3.4	4.9	24000	13000	33	NC
	Rourkela D/s at Jalda	7.2	4.4	3.8	11000	3300	17	NC
	Rourkela FD/s at Attaghat	7.2	7.6	2.8	3500	790	14	C
	Rourkela FFD/s at Biritola	7.3	8.0	2.6	2400	330	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)	

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

Polluted River stretch : July, 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	8.2	7.4	1.9	2400	790	2	C
9. Banguru nallah Along Talcher (Priority-V)	Along Talcher	7.8	7.8	1.6	790	170	4.5	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)	

Ground Water quality of Talcher city along in the catchment of Nandirajhor 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 : July, 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	7.0	1.4	7000	2200	13	C
	Sambalpur FD/s at Shankarmath	7.3	6.8	1.2	4900	1700	11	C
	Sambalpur FFD/s at Huma	8.1	7.4	0.9	3500	1700	11	C
	Sonepur U/s	7.6	6.8	0.8	170	78	2	C
	Sonepur D/s	7.6	6.2	0.9	490	110	4.5	C
	Tikarpada	7.6	5.8	1.4	1100	220	7.8	C
	Narasinghpur	7.2	7.8	1.2	490	230	17	C
	Munduli	7.3	7.4	1.4	790	220	4.5	C
	Cuttack U/s	7.3	7.7	1.1	330	170	<1.8	C
	Cuttack D/s	7.5	8.1	1.3	2200	1700	<1.8	C
	Cuttack FD/s	7.1	8.0	1.1	1100	700	<1.8	C
	Paradeep U/s	7.9	7.0	1.1	220	78	2	C
Paradeep D/s	7.8	6.8	1.8	490	170	4.5	C	
11. Bheden Along Bheden (Priority-V)	Jharsuguda	7.8	7.6	1.1	170	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 (Desirable) 2500 (permissible)	100 (Desirable) 500 (Maximum Permissible)	

Water quality of Tributaries of Mahanadi River

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	7.8	8.0	0.8	1100	460	n.a.	C
	Jharsuguda	7.6	7.4	0.8	330	130	n.a.	C
	Brajrajnagar U/S	7.7	8.0	1.1	1300	330	n.a.	C
	Brajrajnagar D/S	7.8	8.2	1.6	3500	790	n.a.	C
Ong River	Dharuakhaman	7.7	6.4	1.3	330	78	n.a.	C
Tel River	Monmunda	7.7	6.8	1.4	140	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 : July, 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	7.5	6.2	2.4	1300	330	4.5	C
13. Nuna (Along Bijipur, Puri) (Priority-V)	Luna at Bijipur	7.0	6.3	1.0	3500	1700	n.a.	C
14. Ratnachira (Along Sakhigopal, Puri) (Priority-V)	Kumardihi	7.4	6.9	1.7	790	220	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 (July, 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)	7.5	12.5	38.1	18.0	3300	1300

Polluted River stretch : July, 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	Not monitored						
	Rayagada D/s	Not monitored						

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

Polluted River stretch : July, 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	7.3	6.4	1.3	2800	490	14	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 : July, 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	6.9	6.3	1.6	2200	1100	34	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 : July, 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	7.9	8.2	1.1	2200	790	13	C
	Potagarh	7.3	6.2	2.1	2400	490	7.8	C
19. Sabulia Along Jagannathpatna, Rambha (Priority-V)	Jagannathpatna, Rambha	7.6	6.2	1.5	3500	790	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	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 July) (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 (3.4)	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 (1.9)	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 (1.6)	Clean (Improved)
17	Nuna (Along Bijipur)	Priority-V (3.1)	Clean (2.7)	Clean (2.5)	Clean (1.1)	Clean (Improved)
18	Sabulia (Jagannathpatna, Rambha)	Priority-V (5.0)	Clean (2.4)	Clean (2.2)	Clean (1.5)	Clean (Improved)
19	Budhabalanga (Mahulia to Baripada)	Priority-V (3.5)	Clean (2.8)	Clean (1.6)	Clean (1.6)	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 July)
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 July, 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	7.8	8.0	0.8	1100	460	n.a.	C
	2	Jharsuguda	7.6	7.4	0.8	330	130	n.a.	C
	3	Brajrajnagar U/S	7.7	8.0	1.1	1300	330	n.a.	C
	4	Brajrajnagar D/S	7.8	8.2	1.6	3500	790	n.a.	C
Bheden	5	Jharsuguda	7.8	7.6	1.1	170	78	n.a.	C
Hirakud Reservoir	6	Hirakud	7.6	8.0	1	130	20	n.a.	C
Mahanadi	7	Sambalpur U/S	7.3	6.6	0.9	3500	1400	n.a.	C
	8	Sambalpur D/S	7.6	7.0	1.4	7000	2200	13	C
	9	Sambalpur FD/S at Shankarmath	7.3	6.8	1.2	4900	1700	11	C
	10	Sambalpur FD/S at Huma	8.1	7.4	0.9	3500	1700	11	C
	11	Power Channel U/S	7.6	6.8	0.9	78	<1.8	n.a.	C
	12	Power Channel D/S	7.5	7.2	1.2	1300	330	n.a.	C
	13	Sonepur U/S	7.6	6.8	0.8	170	78	2	C
	14	Sonepur D/S	7.6	6.2	0.9	490	110	4.5	C
	15	Tikarpada	7.6	5.8	1.4	1100	220	7.8	C
	16	Narasinghpur	7.2	7.8	1.2	490	230	17	C
	17	Munduli	7.3	7.4	1.4	790	220	4.5	C
	18	Cuttack U/s	7.3	7.7	1.1	330	170	<1.8	C
	19	Cuttack D/s	7.5	8.1	1.3	2200	1700	<1.8	C
	20	Cuttack FD/s	7.1	8.0	1.1	1100	700	<1.8	C
21	Paradeep U/S	7.9	7.0	1.1	220	78	2	C	
22	Paradeep D/S	7.8	6.8	1.8	490	170	4.5	C	
Ong	23	Dharuakhaman	7.7	6.4	1.3	330	78	n.a.	C
Tel	24	Monmunda	7.7	6.8	1.4	140	45	n.a.	C
Kathajodi	25	Cuttack U/s	7.7	7.6	1.1	790	220	<1.8	C
	26	Cuttack D/s	7.8	7.2	3.4	7900	4900	4.5	NC
	27	Cuttack FD/s at Mattagajpur	7.2	8.4	2.5	13000	4900	n.a.	NC
	28	Cuttack FFD/s at Kamasasan	7.7	7.8	0.7	3500	940	n.a.	C
Serua	29	Cuttack FD/s at Sankhatrasa	7.7	7.8	3.8	5400	1700	n.a.	NC
Kuakhai	30	Bhubaneswar FU/s	7.9	6.3	0.9	3500	1300	7.8	C
	31	Bhubaneswar U/s	8.0	6.1	1.1	4600	1700	14	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	6.4	1.2	3500	2400	17	C
	33	Bhubaneswar D/s	7.8	4.3	4.7	92000	54000	49	NC
	34	Bhubaneswar FD/s	7.3	4.1	3.3	24000	13000	33	NC
	35	Kanas	7.0	5.8	1.6	11000	490	n.a.	NC
Birupa	36	Choudwar	7.2	6.4	1.1	2800	790	n.a.	C
Gangua nallah	37	Rajdhani Engineering College	7.0	1.5	5.7	160000	160000	280	NC
	38	Palasuni	6.8	2	8.8	160000	160000	220	NC
	39	Samantarapur	6.9	1.2	9.8	160000	92000	130	NC
	40	Vadimula	6.9	3.4	5.3	92000	54000	n.a.	NC
Kushabhadra	41	Bhingarpur	7.4	6.2	1.5	3500	1100	n.a.	C
	42	Nimapara	7.3	7.4	1.7	4900	3300	n.a.	C
	43	Gop	8.0	7.8	1.4	3500	1300	n.a.	C
Gobari	44	Kendrapada U/s	8.0	6.4	1.6	1700	790	n.a.	C
	45	Kendrapada D/s	7.3	5.8	2.2	3500	790	n.a.	C
Mangala	46	Mangala U/s at Malatipatpur	8.3	6.5	1.5	3500	2400	n.a.	C
	47	Mangala D/s at Golasahi	7.5	6.2	2.4	1300	330	4.5	C
Bhargavi	48	Chandanpur	7.9	6.1	1.1	230	78	n.a.	C
Devi	49	Machhagaon	8.0	6.2	1.2	45	<1.8	n.a.	C
Luna	50	Luna at Bijipur	7.0	6.3	1	3500	1700	n.a.	C
Sabulia	51	Rambha, Jagatnathpatna	7.6	6.2	1.5	3500	790	17	C
Kusumi	52	Tangi	6.9	6.3	1.6	2200	1100	34	C
Kansari	53	Banapur	7.3	5.9	1.8	2800	700	n.a.	C
Badasankha	54	Langalaeswar	7.6	6.6	1.2	4300	2100	n.a.	C
Ratnachira	55	Kumardihi	7.4	6.9	1.7	790	220	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	0.9	2200	330	n.a.	C
	2	Panposh D/S	7.0	3.4	4.9	24000	13000	33	NC
	3	Rourkela D/S at Jalda	7.2	4.4	3.8	11000	3300	17	NC
	4	Rourkela FD/s at Attaghat	7.2	7.6	2.8	3500	790	14	C
	5	Rourkela FFD/s at Biritola	7.3	8.0	2.6	2400	330	17	C
	6	Bonaigarh	7.3	7.4	1.1	1100	230	n.a.	C
	7	Rengali	7.3	6.6	0.9	220	78	n.a.	C
	8	Samal	7.5	5.0	1.3	790	220	n.a.	C
	9	Talcher FU/S	7.5	6.8	1.1	1300	330	<1.8	C
	10	Talcher U/s	7.5	7.0	1.1	2400	790	4.5	C
	11	Mandapal	7.6	7.0	1.2	3500	330	n.a.	C
	12	Talcher D/S	7.6	6.8	1.6	3500	1300	4.5	C
	13	Talcher FD/S	7.2	6.8	0.9	1700	230	4.5	C
	14	Dhenkanal U/s	7.5	6.8	0.9	490	170	n.a.	C
	15	Dhenkanal D/s	8.0	7.2	1.1	1300	490	n.a.	C
	16	Bhuban	7.9	7.0	0.8	2200	490	n.a.	C
	17	Kabatabandha	7.9	7.2	1.1	2200	1100	n.a.	C
	18	Dharmasala U/s	8.0	7.6	1.1	3500	790	n.a.	C
	19	Dharmasala D/s	7.9	7.5	1.2	3500	1100	n.a.	C
	20	Pottamundai	7.9	6.4	1.5	1700	790	n.a.	C
Kharasrota	21	Khanditara	7.9	7.8	0.9	1300	790	n.a.	C
	22	Binjharpur	7.9	7.5	1.1	2800	1300	n.a.	C
	23	Ali	8.1	6.8	1.6	2800	1100	n.a.	C
Nandira jhor	24	Nandira U/s	8.3	7.2	1.7	1400	460	2	C
	25	Nandira D/s	8.2	7.4	1.9	2400	790	2	C
Kisinda jhor	26	Kisindajhor	7.9	7.2	1.4	330	45	<1.8	C
Sankh	27	Sankh U/s	7.8	7.5	0.8	3500	790	n.a.	C
Koel	28	Koel U/s	7.4	8.2	1.1	3500	330	n.a.	C
Guradi nallah	28	Rourkela (before confluence with Brahmani river)	7.9	2.3	7.6	54000	24000	n.a.	Drain
Badajhor	30	Badajhor	7.9	8.2	1.2	2200	490	n.a.	C
Damsala	31	Dayanabil	7.7	7.3	0.9	490	170	n.a.	C
Gonda nallah	32	Marthapur	7.6	7.1	1.1	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	6.8	7.1	0.8	330	78	n.a.	C
Lingra	34	Lingira U/s	8.3	6.6	1.5	1700	330	n.a.	C
	35	Lingira D/s	8.5	6.4	1.7	3500	1700	n.a.	C
Ramiala	36	Kamakhyanager	8.0	6.6	1.4	3500	1300	n.a.	C
Bangurunallah	37	Bangurunallah	7.8	7.8	1.6	790	170	4.5	C
Singadajhor	38	Singadajhor	7.8	5.8	1.3	1100	220	n.a.	C
Tikira	39	Kaniha U/s	7.4	6.6	1.1	1700	490	n.a.	C
	40	Kaniha D/s	7.4	5.6	1.5	3500	790	n.a.	C
Bangurusingadajhor	41	Bangurusingadajhor	7.5	7.4	0.8	1700	490	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	6.8	6.7	1.2	490	110	n.a.	C
Kusei	2	Deogaon	7.3	5.9	1.6	700	230	n.a.	C
Baitarani	3	Naigarh	6.9	6.8	0.9	490	130	n.a.	C
	4	Unchabali	6.7	6.5	1.4	220	68	n.a.	C
	5	Champua	7	6.8	1.1	140	20	n.a.	C
	6	Tribindha	7.3	6.9	1.1	78	<1.8	n.a.	C
	7	Joda	7.2	6.6	1.1	490	130	n.a.	C
	8	Anandpur	7.3	6.1	1.8	790	170	n.a.	C
	9	Jajpur	8.3		1.3	1300	330	n.a.	C
	10	Chandbali U/s	7.5	6.8	1.1	2400	490	n.a.	C
	11	Chandbali D/s	7.4	7.2	1.3	3500	1300	n.a.	C
Dhamra	12	Dhamra	7.6	7.6	1.7	1700	330	n.a.	C
Salandi	13	Bhadrak U/s	7.2	7.2	0.9	2200	1100	n.a.	C
	14	Bhadrak D/s	7.3	7.4	1.5	4600	1700	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	7.4	8.2	1.2	3500	1300	n.a.	C
Badanadi	2	Aska	7.3	6.2	1.7	3500	2400	n.a.	C
Rushikulya	3	Aska	8.3	5.5	1.5	2400	790	n.a.	C
	4	Nalabanta	7.6	6.7	1.5	3500	1300	n.a.	C
	5	Madhopur	7.9	8.2	1.1	2200	790	13	C
	6	Potagarh	7.3	6.2	2.1	2400	490	7.8	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 (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	7.6	6	1.3	3500	2400	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	7.3	6.4	1.3	2800	490	14	C
	2	Balasore U/s	7.7	6.8	1.1	2200	1100	n.a.	C
	3	Balasore D/s	7.3	6.4	2.3	4300	3500	n.a.	NC
	4	Hatiagond (Sona)	7.5	6.4	1.3	3500	3500	n.a.	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 (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	7.6	5.2	1.2	3500	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

(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	Sample not collected						
	2	Jayjkaypur D/s							
	3	Rayagada D/s							

(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	Sample not collected						
	2	Gunupur							

(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	Sample not collected						

(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	Sample not collected						

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. Sonepur 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.									

Monthly Progress Report on Hon'ble NGT O.A. NO.673/2018 for the month of June and July-2020

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.

