

Monthly Progress Report for January, 2020 on the matter of Hon'ble NGT OA 673 of 2018

Compliance Report to the comments given at Sl. No. 23 for Odisha at page 8 of the Minutes of the Meeting of 1st Central Monitoring Committee regarding 351 polluted stretches based on the directions of Hon'ble NGT in the matter OA NO. 673 of 2018 held on 08.01.2020

Comment	Compliance
10 river stretches are having BOD values below 3 mg/l, therefore CPCB has been requested to reconsider the number of polluted stretches in Odisha Sc-E, CPCB informed that for such reliefs, State may directly approach Hon'ble NGT	For deletion of ten polluted river stretches with BOD values below 3 mg/l or marginally above 3.0 mg/l, Board has already communicated the matter to Hon'ble NGT vide letter No. 6811 dated 09.07.2019 (copy enclosed).
For the balance 8 stretches for Priority-III to V, the Action Plans will be submitted to CPCB.	Action Plans has already been submitted to CPCB. Detail status of submission of Action Plans for 19 polluted stretches identified in the State is enclosed as Annexure- A(1).
	Present status of the 19 polluted stretches based on BOD values during 2019 (January-December) is enclosed as Annexure-A(2).

Annexure-A (1)

Status of Action Plans for Polluted River Stretches identified in the State of Odisha

Polluted River Stretches identified by CPCB		Priority Category of Polluted River stretch (as Identified during 2017)	Revised Action Plan submitted to CPCB vide letter No. and date	Approval Status
1.	Gangua River (Along Bhubaneswar)	Priority-I	6196 dated 25.06.2019	Approved by CPCB vide letter No. 10411/I/2019/WQM-I/841 dated 12.4.2019
2	Daya (Bhubaneswar to Bargarh)	Priority-IV	Action plan included in the Action plan of Gangua River	Approved by RRC in 3 rd RRC meeting All Action plans are uploaded in RRC website (www.rrcodisha.org)
3	Brahmani (Rourkela to Biritol)	Priority-V	6340 dated 28.06.2019	
4	Guradih nallah (Rourkela)	Priority-III		
5	Mangala (Along Puri)	Priority-V		
6	Nagavali (Jaykaypur to Rayagada)	Priority-V		
7	Kathajodi (Cuttack to Urali)	Priority-III		
8	Serua (Khandaeta to Sankhatrasa)	Priority-V		
9	Ratnachira (Along Bhubaneswar, Puri)	Priority-V		
10	Nandira Jhor (D/s of Talcher)	Priority-III	6002 dated 20.06.2019 Requested for deletion to Hon'ble NGT vide letter No. 6811 dated 09.07.2019	
11	Kuakhai (Along Bhubaneswar)	Priority-IV		
12	Mahanadi (Sambalpur to Paradeep)	Priority-V		
13	Rushikulya (Pratappur to Ganjam)	Priority-V		
14	Banguru nallah (along Talcher, Rengali)	Priority-V		
15	Bheden (along Bheden)	Priority-V		
16	Kusumi (along Talcher)	Priority-V		
17	Luna (along Bijipur)	Priority-V		
18	Sabulia (Jagannathpatna, Rambha)	Priority-V		
19	Budhabalanga (Mahulia to Baripada)	Priority-V		

Status of Polluted River Stretches identified in the State of Odisha

Polluted River Stretches identified by CPCB		Priority Category of Polluted River stretch (as Identified during 2017)	Priority Category of Polluted River stretch (as on 2019)
1.	Gangua River (Along Bhubaneswar)	Priority-I	Priority-I
2	Daya (Bhubaneswar to Bargarh)	Priority-IV	Priority-IV
3	Brahmani (Rourkela to Biritol)	Priority-V	Priority-V
4	Guradih nallah (Rourkela)	Priority-III	Priority-IV
5	Mangala (Along Puri)	Priority-V	Priority-IV
6	Nagavali (Jaykaypur to Rayagada)	Priority-V	Clean
7	Kathajodi (Cuttack to Urali)	Priority-III	Priority-V
8	Serua (Khandaeta to Sankhatrasa)	Priority-V	Priority-V
9	Ratnachira (Along Bhubaneswar, Puri)	Priority-V	Clean
10	Nandira Jhor (D/s of Talcher)	Priority-III	Clean
11	Kuakhai (Along Bhubaneswar)	Priority-IV	Clean
12	Mahanadi (Sambalpur to Paradeep)	Priority-V	Clean
13	Rushikulya (Pratappur to Ganjam)	Priority-V	Clean
14	Banguru nallah (along Talcher, Rengali)	Priority-V	Clean
15	Bheden (along Bheden)	Priority-V	Clean
16	Kusumi (along Talcher)	Priority-V	Clean
17	Luna (along Bijipur)	Priority-V	Clean
18	Sabulia (Jagannathpatna, Rambha)	Priority-V	Clean
19	Budhabalanga (Mahulia to Baripada)	Priority-V	Clean

Gist

Category	Status on 2017	Status on 2019
Priority-I	1	1
Priority-II	Nil	Nil
Priority-III	3	Nil
Priority-IV	2	3
Priority-V	13	3
		12 (Clean)

6.1 (i) Identification of Pollution Contributing Drains

Polluted River Stretches identified by CPCB		Priority Category of Polluted River stretch	Identification of Drains (only major drains identified)
1.	Gangua River (Along Bhubaneswar)	Priority-I	10 natural drains carrying wastewater of Bhubaneswar city discharges into Gangua River. Water quality data given in 6.1(v)
2.	Guradih nallah (Rourkela)	Priority-III	Carries treated wastewater of Rourkela Steel Plant and Rourkela Municipal area. Water quality data given in 6.1(v)
3	Kathajodi (Cuttack to Urali)	Priority-III	Three drains carrying wastewater of Cuttack city discharges into Kathajodi river
4	Nandira Jhor (D/s of Talcher)	Priority-III	One natural stream, Kisindajhor, carrying part of Talcher township and industrial township in Talcher area discharges into Nandira jhor. Water quality data given in 6.1(v)
5	Daya (Bhubaneswar to Bargarh)	Priority-IV	Gangua nallah, a natural storm water drain, carrying domestic wastewater of Bhubaneswar city discharges into Daya river. Water quality data given in 6.1(v)
6	Kuakhai (Along Bhubaneswar)	Priority-IV	No drain identified
7	Banguru nallah (along Talcher, Rengali)	Priority-V	No drain identified
8	Bheden (along Bheden)	Priority-V	Treated industrial wastewater of Vedanta Alumina Ltd. discharges to Bheden river through a natural stream Kharkhari nallah
9	Brahmani (Rourkela to Biritol)	Priority-V	Treated wastewater of Rourkela Steel Plant and Rourkela Municipal area discharges through Guradih nallah into Brahmani river.
10	Budhabalanga (Mahulia to Baripada)	Priority-V	Domestic wastewater of Baripada Municipality outfalls into two natural stream, Sarali nallah and Jarali nallah which ultimately discharge to Budhabalanga river
11	Kusumi (along Talcher)	Priority-V	No drain identified

Polluted River Stretches identified by CPCB		Priority Category of Polluted River stretch	Identification of Drains (only major drains identified) (Drain characteristic studies are to be undertaken)
12	Mahanadi (Sambalpur to Paradeep)	Priority-V	<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)	Priority-V	Treated wastewater of STP at Puri
14	Nagavali (Jaykaypur to Rayagada)	Priority-V	Treated wastewater of STP and ETP at Jaykaypur, Rayagada
15	Luna (along Bijipur)	Priority-V	No drain identified
16	Ratnachira (Along Bhubaneswar, Puri)	Priority-V	No drain identified
17	Rushikulya (Pratappur to Ganjam)	Priority-V	No drain identified
18	Sabulia (Jagannathpatna, Rambha)	Priority-V	No drain identified
19	Serua (Khandaeta to Sankhatrasa)	Priority-V	Domestic wastewater of part of Cuttack city through one major drain

6.1 (v) Latest Water quality of polluted river, its tributaries, drains and ground water quality in the catchment of Polluted river stretches during January, 2020

Rivers

River	Sl. No.	Polluted River stretch with Priority Category	Monitoring station	BOD (mg/L)	Fecal coliform (FC) (MPN/100 mL)	Fecal Streptococci (FS) (MPN/100 mL)	Remark
Gangua	1	D/s Bhubaneswar (Priority-I)	Near Rajdhani Engg. College	13.3	160000	240	Not conforming
			Palasuni	19.9	160000	350	
			Samantarapur	13.8	160000	170	
			Vadimula	8.5	28000	170	
Daya	2	Bhubaneswar to Bargarh (Priority-IV)	Bhubaneswar D/s at Kanti	4.5	92000	170	Not conforming
			Bhubaneswar FD/s at Manitri	4.2	160000	220	
			Kanas	2.2	2200	Not analysed	
Kuakhai	3	Uruli to Bhubaneswar (Priority-IV)	Bhubaneswar FU/s (at Mancheswar)	0.5	790	31	Conforming
			Bhubaneswar U/s (at Hansapal)	0.6	1100	17	
Water quality criteria for Bathing water (GSR 742 (A) Dated 25.12.2000)				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	6.2	0.3	0.500	1.8	1.8
	October	6.7	0.9	1.583	1.8	1.8
Old town-Samantarapur Area	April	6.7	0.4	0.571	23	1.8
	October	7.8	1	4.006	23	23
Kalpana-Laxmisagar Area,	April	6.3	0.3	0.492	23	2
	October	5.9	0.2	50.414	1.8	1.8
Chandrasekharpur	April	7.1	0.3	0.549	1.8	1.8
	October	No sample collected				
Capital Hospital Area,	April	6.0	0.6	0.589	1.8	1.8
	October	No sample collected				

Station Name	Month	pH	BOD, mg/L	Nitrate- mg/L	TC, MPN/ 100 mL	FC, MPN/ 100 mL
Secretariate-Govenor House-Old bus stand Area,	April	6.4	0.2	0.957	540	130
	October	7.4	0.7	22.513	130	33
Drinking water Specification (IS : 10500:2012) Desirable limit		6.5-8.5	-	45	Absent	Absent

Details of wastewater drain characteristics in Bhubaneswar falling on Gangua nalla

Drain No.	Drain Name	Length in Km	Drainage area in sq. Km.	Average Discharge (MLD)	Average BOD (mg/l)
1	Patia	4.32	16.93	17.00	160
2	Sainik School	1.13	1.44	1.55	127
3	OAP area	2.42	3.31	3.55	120
4	VaniVihar	5.63	13.67	16.40	100
5	Laxmisagar area	3.13	3.66	4.45	120
6	Baragada Area	2.16	2.89	3.45	140
7	Kedargouri	4.34	9.46	5.45	140
8	Airport area	4.33	12.99	14.30	24
9	Ghatikia	4.24	12.55	28.8	60
10	Nicco Park	5.48	10.28	12.3	100
	Total	37.18	103.23		

Rivers

River	Sl. No.	Polluted River stretch with Priority Category	Monitoring station	BOD (mg/L)	Fecal coliform (FC) (MPN/100 mL)	Fecal Streptococci (FS) (MPN/100 mL)	Remark
Kathajodi	4	Cuttack to Urali (Priority-III)	Cuttack D/s	1.9	3300	47	Not-Conforming
			Mattagajpur	1.9	68	7.8	
Serua	5	Khandaeta to Sankhatrasa (Priority-V)	Sakhatrasa	1.2	1300	7.8	Conforming
Water quality criteria for Bathing water (GSR 742 (A) Dated 25.12.2000)				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	7.5	0.1	9.694	2	1.8
	October	6.1	0.2	32.281	1.8	1.8
Mangalabag	April	8.2	0.4	3.149	1.8	1.8
	October	6.5	0.1	42.010	1.8	1.8
Madhupatna-Kalyan Nagar Area	April	7.9	0.4	0.926	1.8	1.8
	October	6.5	0.2	0.809	1.8	1.8
Badambadi Area	April	8.4	0.9	3.795	1.8	1.8
	October	6.7	0.4	6.470	1.8	1.8
Bidanasi-Tulsipur Area,	April	8.0	0.2	1.085	1.8	1.8
	October	6.5	0.2	7.351	5	5
Drinking water Specification (IS : 10500:2012) Desirable limit		6.5-8.5	-	45	Absent	Absent

Characteristic of Drains falling on Kathajodi river

Sl. No.	Monitoring station	2019 (January-December)		
		BOD (mg/L)		
		Min	Max	Avg
1	Outlet of STP at CDA-Bidanasi area	2.6	8.2	5.02
2	Wastewater discharge to Kathajodi river through sluice gate at Khannagar	25.5	80.6	42.9
3	Outlet of STP at Mattagajpur discharge to Kathajodi river *	2.8	28.4	11.4

* Monitored during 2017

Rivers

River	Sl. No.	Polluted River stretch with Priority Category	Monitoring station	BOD (mg/L)	Fecal coliform (FC) (MPN/100 mL)	Fecal Streptococci (FS) (MPN/100 mL)	Remark
Guradih nallah	6	Along Rourkela (Priority-III)	Rourkela (before confluence with Brahmani river)	5	13000	Not Analysed	• Not Conforming
Brahmani	7	Rourkela to Biritola (Priority-V)	Panposh D/s at Deogaon	4.5	2400	Not Analysed	• Not Conforming
			Rourkela D/s at Jalda	3.6	1700	Not Analysed	
			Rourkela FD/s at Attaghat	2.6	2200	Not Analysed	
			Rourkela FD/s at Biritola	1.4	1700	Not Analysed	
Water quality criteria for Bathing water (GSR 742 (A) Dated 25.12.2000)				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

Rivers

River	Sl. No.	Polluted River stretch with Priority Category	Monitoring station	BOD (mg/L)	Fecal coliform (FC) (MPN/100 mL)	Fecal Streptococci (FS) (MPN/100 mL)	Remark
Nandira jhor	8	D/s Talcher (Priority-III)	Nandira D/s at Dasnali	1.4	790	49	Conforming
Banguru nallah	9	Along Talcher Rengali (Priority-V)	Along Talcher	0.9	450	23	Conforming
Water quality criteria for Bathing water (GSR 742 (A) Dated 25.12.2000)				3.0	500 (Desirable) 2500 (permissible)	100 (Desirable) 500 (Maximum Permissible)	-

Ground Water quality of Talcher city along in the catchment of Nadira 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	7.6	0.4	11.285	1.8	1.8
	October	7.7	0.5	1.332	1.8	1.8
Meramundali area	April	7.2	1	1.605	1.8	1.8
	October	8	0.2	3.934	1.8	1.8
Talcher Thermal area	April	7.3	0.6	0.876	1.8	1.8
	October	7.9	0.5	1.520	920	130
Banarpal	April	7.5	0.4	2.201	1.8	1.8
	October	7.6	0.3	1.611	13	1.8
Kulad	April	7.7	0.8	23.130	4.5	1.8
	October	8.3	0.4	2.353	1.8	1.8
Drinking water Specification (IS : 10500:2012) Desirable limit		6.5-8.5	-	45	Absent	Absent

Rivers

River	Sl. No.	Polluted River stretch with Priority Category	Monitoring station	BOD (mg/L)	Fecal coliform (FC) (MPN/100 mL)	Fecal Streptococci (FS) (MPN/100 mL)	Remark
Mahanadi	10	Sambalpur to Paradeep (Priority-V)	Sambalpur D/s	1.1	1300	22	Conforming
			Sambalpur FD/s at Shankarmath	1.0	780	22	
			Sambalpur FFD/s at Huma	1.0	780	1.8	
			Sonepur U/s	0.4	45	1.8	
			Sonepur D/s	0.4	400	11	
			Tikarpada	1.1	230	13	
			Narasinghpur	0.5	92	11	
			Munduli	0.9	780	4	
			Cuttack U/s	0.9	130	27	
			Cuttack D/s	0.9	1100	45	
			Cuttack FD/s	0.5	1100	27	
			Paradeep U/s	0.3	230	2	
			Paradeep D/s	0.3	490	23	
Bheden	11	Along Bheden (Priority-V)	Bheden	1.8	1700	Not analysed	Conforming
Water quality criteria for Bathing water (GSR 742 (A) Dated 25.12.2000)				3.0	500 (Desirable) 2500 (permissible)	100 (Desirable) 500 (Maximum Permissible)	-

Water quality of Tributaries of Mahanadi River

River	Sl. No.	Polluted River stretch with Priority Category	Monitoring station	BOD (mg/L)	Fecal coliform (FC) (MPN/100 mL)	Fecal Streptococci (FS) (MPN/100 mL)	Remark
Ib River			Sundargarh	0.5	170	Not analysed	Conforming
			Jharsuguda	0.5	790	Not analysed	
			Brajarajnagar U/s	0.7	790	Not analysed	
			Brajarajnagar D/s	0.8	2200	Not analysed	
Ong River			Dharuakhaman	0.4	1.8	Not analysed	Conforming
Tel River			Monmunda	0.8	20	Not analysed	Conforming

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	8.1	0.8	18.875	1.8	1.8
	October	6.6	0.5	6.743	220	7
Near Railway station	April	7.6	0.6	28.175	1.8	1.8
	October	7	0.1	30.457	1.8	1.8
Near VSS Medical College, Burla	April	8.1	0.9	1.072	1.8	1.8
	October	7.5	0.1	1.350	20	1.8
Paradeep town Along Mahanadi River						
Badapadia market complex	April	8.2	0.8	42.718	1.8	1.8
	October	7.3	1.1	47.965	1.8	1.8
Musadiha	April	8.4	0.3	6.857	23	1.8
	October	7.6	1.5	8.415	1.8	1.8
Jharsuguda town in the catchment of Bheden river and Ib river						
Burkhamunda	April	7.1	0.2	1.909	1.8	1.8
	October	7.4	0.2	21.184	49	17
Badamal Industrial Estate	April	6.8	0.9	2.840	1.8	1.8
	October	7.2	0.4	13.128	1.8	1.8
Budhipadar	April	6.4	0.6	3.356	1.8	1.8
	October	6.6	0.4	2.213	1.8	1.8
Brajarnagar Mining belt	April	5.8	0.9	1.873	1.8	1.8
	October	7.3	0.3	30.457	1.8	1.8
Rampur area (Water tank)	April	6.8	0.5	0.827	23	1.8
	October	6.6	0.1	1.627	13	1.8
Ib thermal power station	April	6.9	0.4	0.766	1.8	1.8
	October	6.6	0.4	2.143	1.8	1.8
Belpahar area	April	6.8	0.3	0.705	1.8	1.8
	October	6.9	0.2	2.659	1.8	1.8
Drinking water Specification (IS : 10500:2012) Desirable limit		6.5-8.5	-	45	Absent	Absent

Rivers

River	Sl. No.	Polluted River stretch with Priority Category	Monitoring station	BOD (mg/L)	Fecal coliform (FC) (MPN/100 mL)	Fecal Streptococci (FS) (MPN/100 mL)	Remark
Mangala	12	Along Puri (Priority-V)	Mangala D/s at Golasahi	2.7	1100	11	Conforming
Nuna	13	Along Bijipur, Puri (Priority-V)	Bijipur	1	1300	17	Conforming
Ratnachira	14	Along Sakhigopal, Puri (Priority-V)	Kumardihi	0.4	780	22	Conforming
Water quality criteria for Bathing water (GSR 742 (A) Dated 25.12.2000)				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	8.1	0.2	1.182	1.8	1.8
	October	7.9	0.2	28.937	240	13
Near Jagannath Temple,	April	7.8	0.3	3.742	1.8	1.8
	October	8.1	0.4	1.167	1.8	1.8
Near Sea Beach	April	8.2	0.3	0.602	23	1.8
	October	8.2	0.5	1.210	79	8
Baliapanda	April	7.9	0.6	0.492	1.8	1.8
	October	8.1	0.1	1.374	11	1.8
Drinking water Specification (IS : 10500:2012)Desirable limit		6.5-8.5	-	45	Absent	Absent

Rivers

River	Sl. No.	Polluted River stretch with Priority Category	Monitoring station	BOD (mg/L)	Fecal coliform (FC) (MPN/100 mL)	Fecal Streptococci (FS) (MPN/ 100 mL)	Remark
Nagavali	15	Jaykaypur to Rayagada (Priority-V)	Jayakaypur D/s	1.6	780	22	Conforming
			Rayagada D/s	0.9	210	17	
Water quality criteria for Bathing water (GSR 742 (A) Dated 25.12.2000)				3.0	500 (Desirable) 2500 (permissible)	100 (Desirable) 500 (Maximum Permissible)	-

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

Rivers

River	Sl. No.	Polluted River stretch with Priority Category	Monitoring station	BOD (mg/L)	Fecal coliform (FC) (MPN/100 mL)	Fecal Streptococci (FS) (MPN/ 100 mL)	Remark
Budhabalanga	16	Mahulia to Baripada (Priority-V)	Baripada D/s	1.2	1100	46	Conforming
Water quality criteria for Bathing water (GSR 742 (A) Dated 25.12.2000)				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

Rivers

River	Sl. No.	Polluted River stretch with Priority Category	Monitoring station	BOD (mg/L)	Fecal coliform (FC) (MPN/100 mL)	Fecal Streptococci (FS) (MPN/100 mL)	Remark
Kusumi	17	Along Angul Talcher (Priority-V) (To be corrected as along Tangi)	Along Tangi	0.5	2200	70	Conforming
Water quality criteria for Bathing water (GSR 742 (A) Dated 25.12.2000)				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

Rivers

River	Sl. No.	Polluted River stretch with Priority Category	Monitoring station	BOD (mg/L)	Fecal coliform (FC) (MPN/100 mL)	Fecal Streptococci (FS) (MPN/100 mL)	Remark
Rushikulya	18	Pratappur to Ganjam (Priority-V)	Madhopur	1.4	490	47	Conforming
			Potagarh	1.9	790	70	
Sabulia	19	Along Jagannathpatna, Rambha (Priority-V)	Jagannathpatna, Rambha	0.9	2200	79	Conforming
Water quality criteria for Bathing water (GSR 742 (A) Dated 25.12.2000)				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	7.8	0.2	0.620	1600	540
	October	8.2	0.2	2.195	23	1.8
Bus stand	April	7.4	0.3	0.924	1.8	1.8
	October	8	0.5	3.166	79	13
Badabazar	April	6.8	0.6	43.378	1.8	1.8
	October	7.6	0.6	20.239	1.8	1.8
Railway station	April	7.6	0.3	25.683	23	1.8
	October	7.8	0.2	23.650	13	1.8
Drinking water Specification (IS : 10500:2012) Desirable limit		6.5-8.5	-	45	Absent	Absent

6.1 (iii) 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) 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 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. 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. Detailed list enclosed as per annexure-1.
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 (list enclosed).

Annexure -1

Sl. No.	Name of the industry	Treatment facility provided	Recipient water bodies	Connectivity of CEQMS to SPCB/ CPCB server	Remarks
1)	M/s. Bhusan Power & Steel Ltd., At- Thelkoloji, Po - Lapanga, Rengali, Dist - Sambalpur-768212	ETP	Bheden River	4 nos. of CEQMS	The unit has been directed to adopt ZLD by 31.03.2020
2)	M/s. Neelachal Ispat Nigam Ltd., Kalinga Nagar Industrial Complex, Po - Duburi, Dist - Jajpur-755026	ETP for BOD plant	Ganda Nallah / lead to Brahmani	2 nos. of CEQMS	The unit has been directed to adopt ZLD by 31.12.2019
3)	M/s Tata Steel Limited, Kalinga Nagar Industrial Complex, Duburi - 755 026, Dist. - Jajpur	ETP	Ganda Nallah/ lead to Brahmani	3 nos. of CEQMS	The unit has adopted ZLD.
4)	M/s. Jindal Steel and Power Ltd., Chhendipada Road, (SH-63), At/Po - Jindal Nagar, Dist - Angul - 759111	ETP	Kurudibahali nallah	3 nos. of CEQMS	The unit has adopted ZLD.
5)	Jindal Stainless Limited (JSL), Kalinganagar Industrial Complex, Village Jakhpura	ETP	Ganda Nallah/ lead to Brahmani	1 no. of CEQMS	The unit has adopted ZLD.
6)	M/s. Rourkela Steel Plant, At- Rourkela Steel Plant, Dist - Sundargarh	ETP	Guradhi Nallah / Brahmani river	7 nos. of CEQMS	The unit recycled it's effluent from lagoon by treating in ETP and reused in Hot Strip Mill (1100m ³ /hr) out of 1975m ³ /hr and directed to adopt ZLD by Dec, 2020
7)	M/s. Tata Steel BSL Ltd., At: Narendrapur PO: Kusupanga Via: Meramandali Dist.: Dhenkanal Pin.759121, Odisha	ETP	Effluent discharged to Kisinda nallah	6 nos. of CEQMS	The unit has adopted ZLD.
8)	M/s. NTPC -SAIL Power Company Pvt. Ltd., (CPP-II), Administrative Building,	ETP	Guradhi Nallah / Brahmani	--	The unit has adopted ZLD.

Sl. No.	Name of the industry	Treatment facility provided	Recipient water bodies	Connectivity of CEQMS to SPCB/ CPCB server	Remarks
	RSP Complex, Rourkela, Dist - Sundargarh		River		
9)	M/s. OCL India Ltd. (Dalmia Cement Bharat Limited), At. Rajgangpur, Dist. Sundergarh, Odisha	ETP	Liploi Nalla / Sankha River / River Brahmani	1 no.	Adopted ZLD
10)	Suidihi Distillery Ltd., Lathikatha Sundargarh	ETP	River Brahmani	1 no. (Web Cam)	Adopted ZLD
11)	M/s. Talcher Super Thermal Power Station, NTPC, At- Kaniha, Po - Deepsikha, Dist - Angul	ETP	River Brahmani	1 no.	Adopted ZLD
12)	M/s. J.K. Paper Ltd., Jaykaypur, Dist - Rayagada	ETP	River Nagavali	1 no.	The unit has been permitted to discharge 34000 KLD of treated Industrial effluent to River Nagavali
13)	M/s Grasim Industries Ltd, (formerly known as Jayshree Chemicals Ltd), At/PO-Jayshree-761 025, Dist-Ganjam	ETP	River Rushikulya	1 no.	Adopted ZLD
14)	M/s. NALCO Ltd., (Smelter Unit) Nalco Nagar, Dist - Angul - 759145	ETP	Kisinda Jhor	1 No.	The unit has been permitted to discharge 2640 KLD of treated Industrial effluent to Kisindajhor only during rainy session
15)	M/s Talcher Thermal Power Stations (TTPS), AT/PO- Talcher Thermal, Dist: Angul- 759101.	ETP	Nandira River	1 No.	Adopted ZLD
16)	M/s. Vedanta Ltd., (Smelter & CPP) At/Po - Bhurkhamunda, Dist - Jharsuguda - 768202	ETP	River Bheden	3 Nos.	The unit has been permitted to discharge 50m ³ /hr of treated Industrial effluent to Bheden River only during rainy season

Sl. No.	Name of the industry	Treatment facility provided	Recipient water bodies	Connectivity of CEQMS to SPCB/ CPCB server	Remarks
17)	M/s. Vedanta Ltd., (IPP, Smelter and CPP), At - Bhurkamunda, Po- Sirpura, Dist - Jharsuguda-768202	ETP	River Bheden	1 No.	Adopted ZLD
18)	M/s. COSBOARD Industries Ltd., Jagatpur Industrial Estate, Phase-II, Jagatpur, Dist - Cuttack - 754021	ETP	River Mahanadi	1 no. of CEQMS	The unit has been permitted to discharge 1000 KLD of treated Industrial effluent to River Mahanadi.
19)	M/s. Paradeep Phosphate Ltd, PO- PPL, Township, Paradeep, Dist – Jagatsinghpur-754145	ETP	To Atharbanki Creek	3 nos. of CEQMS	The unit has been permitted to discharge 887 KLD of treated Industrial effluent to Atharbanki Creek only during monsoon.
20)	M/s. Indian Farmers and Fertilizer Co. Operative Ltd., (IFFCO), At- Musadhia, Po - Paradeep, Dist - Jagatsinghpur	ETP	River Mahanadi	1 no. of CEQMS	The unit has been permitted to discharge 7200 KLD of treated Industrial effluent to Mahanadi River
21)	M/s. Paradeep Refinery Project, IOCL, At- Paradeep, Po- Jhimani, Via – Kujang, Dist – Jagatsinghpur – 754141	ETP	Deep Sea (bay of Bengal near Paradeep)	1 no.	The unit has been permitted to discharge 8400 KLD of treated Industrial effluent to Deep Sea at distance of 3 km from LTL
22)	M/s. Essar Power (Orissa) Limited, At-Udayabata, PO-Paradeep, Dist- Jagatsinghpur, Odisha	ETP	River Mahanadi	1 no.	Adopted ZLD

6.1 (vi) Management of Plastic Waste

- (a) State Pollution Control Board, Odisha is the authority for enforcement of the Provisions of Plastic Waste Management Rules, 2016 relating to registration, manufacture of plastic products and multi layered packaging, processing and disposal of plastic wastes in the State.
- (b) The State Pollution Control Board had issued certificates of Registration to 14 nos. of (Producer-06, Brand Owners-05, Recycles-03) as on date. In case of renewal of registration of producer, unless the producer possesses and action plan endorsed by the Secretary in Charge of the Urban Department of the concerned State.
- (c) The State Pollution Control Board takes a decision on the grant of Registration within stipulate time period after an application which is complete in all respect.
- (d) The Registration granted under this Rule are initially valid for one year, unless revoked, suspended or cancelled and shall be subsequently granted for three years.

Current status of management of Plastic waste :

- (i) As per the information received from H &UD Department, the State generates approximately 90,139 tons per annum of plastic waste (2018-19). There are 14 plastic units registered in the State falling in the category of Recyclers, Producers, Brand Owners. Out of these 14 Registered units, 6 are Producers, 5 are Recycles and 3 are Brand owners.
- (ii) All urban local bodies have been instructed for implementation of the provisions of Plastic Waste Management Rules, 2016. Major ULBs have been instructed to send segregated plastic waste to Cement Plants namely, ACC Ltd., Bargarh, OCL Limited, Rajgangpur, Shiva Cements, Sundargarh, Toshali Cement, Amphavalli, Koraput for co-processing in cement kiln. About 28 MT of plastic waste has been sent to ACC Ltd, Bargarh for co-processing during 2018-19 (upto November, 2019).
- (iii) 4.6 MT of Plastic waste has been used for construction of 9.6 Km road in Deogarh and Sambalpur district.
- (iv) Consent to Establish has been granted for M/s Hindalco Industries for establishment of Poly Crack Converts of 0.5 MT/ day plastic wastes to oil.

Management of Biomedical waste

In total 145674 Kg/day of biomedical waste is generated in the State out of which 13951 Kg/ day of biomedical waste is being processed/ treated.