



HEAD OFFICE
CHHATTISGARH ENVIRONMENT CONSERVATION BOARD
PARYAWAS BHAWAN, SECTOR- 19
NAVA RAIPUR ATAL NAGAR, RAIPUR (C.G.)
Email - hocecb@gmail.com

No. / TECH / H.O./ CECB/ 2024 Nava Raipur Atal Nagar, Raipur, Dated: / / 2024
To,

Secretary,
Government of India,
Ministry of Jal Shakti,
Department of Water Resources,
River Development & Ganga Rejuvenation,
Shram Shakti Bhawan, Rafi Marg,
New Delhi - 110 001

Sub. :- Submission of information by the states in the matter of Hon'ble NGT O.A. No. 673/2018.

- Ref. :- 1. Minuts of the 1st meeting of Central Monitoring Committee held on 08/01/2020.
2. Your letter no. D.O. No.Legal / OA / 673/ 2018/ NMCG / 2019 Dated 22/01/2020.

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With reference to your letter on the above subject, the compliance report of action plan prepared in the matter of Hon'ble NGT O.A. No. 673/2018 in prescribed format for the month of February, 2024 is enclosed with this letter for your information and necessary action please.

Enclosed :- As above.

Member Secretary

Chhattisgarh Environment Conservation Board

Nava Raipur Atal Nagar, Raipur (C.G.)

Endt. No. 10492-TECH/ H.O./CECB /2024 Nava Raipur Atal Nagar, Raipur, Dated 28/ 3/ 2024
Copy to :-

1. Secretary, Govt. of Chhattisgarh, Housing and Environment Department, Mantralaya, Mahanadi Bhawan, Nava Raipur Atal Nagar for information please.
2. Member Secretary, Central Pollution Control Board, 'Parivesh Bhawan' C.B.D.Cum-Office Complex, East Arjun Nagar, Shahdara, Delhi for information please.


Member Secretary

Chhattisgarh Environment Conservation Board
Nava Raipur Atal Nagar, Raipur (C.G.)

**Monthly Progress Report for the month of February, 2024 in
the matter of Hon'ble NGT OA No. 673 of 2018 order Dated
24/09/2020 for the State of Chhattisgarh**

Overall status of the State

- I. **Total Population :** Urban Population – 57,16,555 (as per 2011 census)
Rural Population – 1,96,07,961 (as per 2011 census)
- II. **Estimated Sewage Generation (MLD) :**
 - a. In the state of Chhattisgarh having 170 ULBs, sewerage network is only available in 01 ULB i.e., Bilaspur Municipal Corporation. There are 02 functional STPs in Bilaspur with 71 MLD capacity. In addition to that, 3 STPs are under construction with combined capacity of 22 MLD. As there is no sewerage system in other ULBs of the State, so the sewage generations have been calculated considering the sewage flow in the major drains of the ULBs. Raipur Municipal Corporation has developed 04 STPs of combined capacity 206 MLD based on SBR technology at Chandandih-75 MLD, Kara-35 MLD, Nimora-90 MLD and Bhatagaon-06 MLD near River Kharun to treat the waste water from 17 major drains of 70 wards of Raipur. In Kawardha, one STP of 2.1 MLD capacity is operational at Mini Mata Chowk. State has developed 04 STPs of 63.2 MLD capacity under AMRUT mission, 06 STPs of 45.8 MLD capacity from the state budget. State is developing 01 STP of 33 MLD capacity in co-ordination with M/s NTPC at Korba.
 - b. The state has developed about 872 MLD capacity of STP for the treatment of used water from the urban households through
 - i. 14 Operational STPs (360.5 MLD),
 - ii. 11 Under Construction STPs (87.8 MLD) and
 - iii. 10 STPs (423.7 MLD) under planning stage.
 - c. In Chhattisgarh, most of the urban households are relied on on-site sanitation systems such as Septic Tanks, Pits latrines and twin pits. So, all ULBs have established Faecal sludge treatment facility for the treatment of septage generated from the households of the ULBs. A total number of 160 ULBs have Faecal Sludge Treatment Plants (FSTP) based on Low-cost gravity based planted drying beds for the treatment of black water generated in these ULBs namely Raipur, Bilaspur, Durg, Bhilai, Kabirdham, Korba, Raigarh, Kirodimal and Badibacheli are using nearby STPs for co-treatment of septage.
 - d. 5 STPs in ULBs namely Kumhari (80 MLD), Sakti (4 MLD), Shivrinarayan (2.2 MLD), Dantewada (2.8 MLD) and Chandrapur (1.7 MLD) are proposed for 90.70 MLD under state budget and under AMRUT 2.0, STPs in 05 AMRUT cities namely Durg (62 MLD), Bhilai (158 MLD), Korba (33 MLD) and Ambikapur (46 MLD) and Rajnandgaon (34

MLD) are proposed for 333 which will further reduce the gap and strengthen the waste water management facilities in the State of Chhattisgarh.

- e. Therefore, there is zero gap in wastewater management in Urban areas of Chhattisgarh and the total sewage & septage generated from all the households of the ULBs is being treated by the STPs and FSTPs respective.

III. Details of Sewage Treatment Plant

- **Existing no. of STPs and Treatment Capacity (in MLD) :** 14 STPs with total treatment capacity of 360.5 MLD
- **Capacity Utilization of existing STPs :** 226.7 MLD, Trunk line laying work of about 0.73 km has been completed and 3.43 km will be completed by June, 2024.
- **No. of Under Construction STPs and Treatment Capacity (in MLD):** 11 STPs with total treatment capacity of 87.8 MLD.
- **No. of Proposed STPs and Treatment Capacity (in MLD):** 10 STPs with total treatment capacity of 423.7 MLD.
- **MLD of sewage being treated through Alternate technology :** 3.95 MLD of septage from all the 170 ULBs is being treated through FSTPs (Low-cost gravity based Planted Drying Bed) and co-treatment with STPs. The details pertaining utilization of FSTP's and STP (cotreatment) in treatment of Septage generated is attached as **Annexure – 1**.
- **Gap in Treatment Capacity in MLD : NIL**
- **No. of Operational STPs : 14**
- **No. of Complying STPs : 14**
- **No. of Non-complying STPs : 0**

Details of each existing STP in the State

No.	Location	Existing STP Capacity	Capacity Being Utilization	Operational Status of STP	Compliance Status of STP
1.	Chilhati (Bilaspur)	17 MLD	16.0 MLD	Operational	Complied
2.	Domuhani (Bilaspur)	54 MLD	16.4 MLD	Operational	Complied
3.	Mini Mata Chowk (Kawardha)	2.1 MLD	1.8 MLD	Operational	Complied
4.	Bhatagaon (Raipur)	06 MLD	5.8 MLD	Operational	Complied
5.	Kara (Raipur)	35 MLD	21 MLD	Operational	Complied
6.	Nimora (Raipur)	90 MLD	75 MLD	Operational	Complied
7.	Chandandih (Raipur)	75 MLD	40 MLD	Operational	Complied
8.	Nava Raipur-Zone 2(Raipur)	10 MLD	3.5 MLD	Operational	Complied
9.	Nava Raipur-Zone 3(Raipur)	7 MLD	1.0 MLD	Operational	Complied
10.	Nava Raipur-Zone 19(Raipur)	1.2 MLD	1.2 MLD	Operational	Complied
11.	Banjipali (Raigarh)	25 MLD	23 MLD	Operational	Complied
12.	Bade Atarmoda (Raigarh)	07 MLD	7.0 MLD	Operational	Complied
13.	Balikota (Jagdalpur)	25 MLD	12 MLD	Operational	Complied
14.	Mohad (Rajnandgaon)	6.2 MLD	3.0 MLD	Operational	Complied
Total		360.5 MLD	226.7 MLD	Operational	

Details of under construction STPs in the State

Status of under construction STPs in the State					
No.	Location	Capacity of the plant in MLD	Physical Progress in %	Status of I&D or House sewer connections	
1.	Nava Raipur- Zone 1(Raipur)	10 MLD	98% completed	0%	31.12.2023
2.	Nava Raipur- Zone 4(Raipur)	10 MLD	78% completed	44%	31.12.2023
3.	Nawapara	7.5 MLD	100% completed	100%	30.06.2023
4.	Rajim	2.8 MLD	100% completed	100%	
5.	Kanker	7.8 MLD	92% completed	76%	30.06.2024
6.	Dhamtari	19.6 MLD	94% completed	88%	
7.	Simga	2.8 MLD	89% completed	68%	
8.	Champa	5.3 MLD	75% completed	58%	
9.	Mangla B (Bilaspur)	10 MLD	05% completed	0%	31.06.2024
10.	Mangla D (Bilaspur)	6 MLD	60% completed	0%	
11.	Koni C (Bilaspur)	6 MLD	80% completed	0%	
Total		87.8 MLD			

Details of proposed STPs in the State

Sr.No.	Location	Capacity of the STP proposed in MLD	Status of Project (at DPR Stage/ Under Tendering/ Work to be Awarded)	Likely Date of Completion
1	Korba	20.5 MLD	➤ A meeting has been conducted under the Chairmanship of Additional Chief Secretary, Govt. of Chhattisgarh on 12/01/2021. In this meeting, it has requested to M/s NTPC Korba to follow the tariff policy published in the Gazette of India and enter into an agreement with Municipal Corporation Korba, so the Hon'ble NGT order may be complied. ➤ In this context, a letter has been sent to Ministry of Power, Govt. of India & Ministry of Jal Shakti, Govt. of India for their intervention on this matter and kindly direct M/s NTPC Korba to take immediate action, so the direction of Hon'ble N.G.T. can be complied	31.03.2024 (i.e. 3 years after approval of DPR by NTPC Authority)

			with. ➤ In the 2nd meeting under the chairmanship of Secretary, CGUAD through video conferencing on 19.08.2021, M/s NTPC has agreed with the new proposal of STP with capacity of 20.5 MLD. With the new proposal all the above mentioned issues raised by M/s NTPC were resolved. M/s NTPC has given its confirmation about the fund allocation (25% of project cost) for the construction of STP. DPR preparation for the 20.5 MLD STP in Fixed Cost Model is in progress.	
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Detail of other under construction/proposed STPs in the State

Sr. No.	Location	Capacity of the plant in MLD	Current Status
1	Kumhari	80 MLD	Administrative Sanction obtained
2	Sakti	04 MLD	
3	Shivrinarayan	2.2 MLD	
4	Dantewada	2.8 MLD	
5	Chandrapur	1.7 MLD	
6	Durg	62 MLD	Proposed under AMRUT 2.0 (DPR preparing stage)
7	Bhilai	158 MLD	
8	Korba	33 MLD	
9	Ambikapur	46 MLD	
10	Rajnandgaon	34 MLD	
	Total	423.7 MLD	

Polluted River Stretches wise STPs Status				
River Stretch	ULB Name	STP Location	STP capacity	Status of STPs
River Kharoon (Bhatagaon to Bendri)P-IV	Raipur	Bhatagaon	06 MLD	Operational
		Kara	35 MLD	
		Nimora	90 MLD	
		Chandandih	75 MLD	
	Nava Raipur	Zone 2	10 MLD	Operational
		Zone 3	7 MLD	
		Sector 19	1.2 MLD	
		Zone 1	10 MLD	Under Construction
		Zone 4	10 MLD	
	Dhamtari	Mujgahan	19.6 MLD	Under Construction
River Kelo (Raigarh to Kanaktora)P-V	Raigarh	Banjipali	25 MLD	Operational
		Bade Atarmoda	07 MLD	
River Hasdeo (Korba to Urga)P-IV	Korba	Korba	33 MLD	Proposed
	Champa	Champa	5.3 MLD	Under Construction
River Mahanadi (Sihawa to Aarang)P-IV	Kanker	Kanker	7.8 MLD	Under Construction
	Nawapara	Nawapara	7.5 MLD	Under Construction
	Rajim	Rajim	2.8 MLD	Under Construction
River Seonath (Bemta to Simga)P-IV	Simga	Simga	2.8 MLD	Under Construction
Arpa River (Bilaspur)	Bilaspur	Chilhathi	17 MLD	Operational
		Domuhani	54 MLD	
		Mangla B	10 MLD	Under Construction
		Mangla D	6 MLD	
		Koni C	6 MLD	
TOTAL			448 MLD	

IV. Details of Industrial Pollution :

- **No. of industries in the State :** 6475
- **No. of water polluting industries in the State :** 1029
- **No. of water polluting industries in the polluted river stretches :** 178
- **Quantity of effluent generated from the industries in polluted river stretches in MLD :** 132.42 MLD
- **Quantity of ETP Sludge generated from the Industries in TPD :** 138.5 kg per tonnes of production in plant where ETP has been provided
- **Number of industrial units having ETPs :** 1022
- **Number of industrial units connected to CETP :** There is no CETP is in the state of Chhattisgarh. All the water polluting industries have their own ETPs.
- **Compliance status of the ETPs :** All the ETPs which are operational are complying with the effluent standards.
- **Number and total capacity of CETPs (details of existing/ under construction / proposed) :** Presently there is no CETP is under construction.
- **Status of compliance and operation of the CETPs :** Not Applicable

Town	No. of industries	Industrial discharge	Status of ETPs	Status of CETPs (existing, under construction & proposed)
NA	NA	NA	NA	NA

V. Solid Waste Management

- **Total number of Urban Local Bodies and their Population :** There are total 170 Urban Local Bodies with a population of 57,16,555 as per census 2011.
- **Current municipal solid waste generation :** 1820 TPD of solid waste is generated and treated daily.
- **Number, installed capacity and utilization of existing MSW processing facilities in TPD (bifurcated by type of processing eg- Waste to Energy (Tonnage and Power Output), Compost Plants (Windrow, Vermi, decentralized pit composting), biomethanation, MRF etc :** In 167 ULBs (360 MRFs, 175 decentralized composting unit) and in Raipur & Bilaspur ULBs (2 Integrated Solid Waste Management facility) are operational. Under Mission Clean City (MCC), 164 ULBs in the State are collecting segregated waste separately and transport the same on daily basis in compartmentalized tricycles and mini tippers. The dry fraction is being segregated at SLRM centres into various usable fractions and sold to waste recyclers. The wet fraction is being converted in compost.

Details of Solid Waste Management in Chhattisgarh

170 ULBs	360 Nos. of MRF	175 Nos. of Composting Units	02 Nos. of Integrated Solid Waste Management facility in Raipur & Bilaspur	100% Door to Door collection of waste in all 3255 wards of state	170 C&D waste collection facility in existing SLRM centres of each ULB
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- **Action plan to bridge gap between Installed Capacity and Current Utilization of processing facilities (if Gap > 20%) :** The MSW treatment facilities are designed considering future population growth of the ULBs and there is no gap in municipal solid waste management in the ULBs.
- **No. and capacity of C&D waste processing plants in TPD (existing, proposed and under construction) :** As per the short-term plan, C&D waste management facilities have been established in the existing SLRM centres of all 170 ULBs of Chhattisgarh and approx. 230 ton per day (TPD) is processed.
- **Status of Construction and Demolition Waste Management in the polluted river stretches :**
- **Total no. of wards, no. of wards having door to door collection service, no. of wards practicing segregation at source :** There are 3255 wards with 100% door to door collection services and 100 % source segregation.
- **Details of MSW treatment facilities proposed and under construction (no., capacity, and technology) :** MSW treatment facilities are constructed and operational in all the ULBs and there is no such MSW treatment facilities proposed or under construction at present.
- **No. and area (in acres) of uncontrolled garbage dumpsites and Sanitary Landfills : NIL**
(As Mission Clean City (MCC) model is implemented in all the ULBs of the state)
- **No. and area (in acres) of legacy waste within 1km buffer of both sides of the rivers :**

Sr. No.	River Name	ULB	No. of Legacy waste dump site	Area of Legacy Waste	Remarks
1	Kharun	Raipur	1	28.85 Acre	Under Progress
2	Kelo	Raigarh	1	06.65 Acre	100% Remediated
3	Hasdeo	Korba	1	10.20 Acre	Under progress

- **No. of drains falling into rivers and no. of drains having floating racks/screens installed to prevent solid waste from falling into the rivers:** 63 drains are falling into the 5 river stretches from 8 ULBs and a total of 133 screens are installed covering all the 5 rivers to prevent falling of solid waste into them.

Status of ULB wise Management of Solid Waste

ULB	Total MSW generation in TPD	Total MSW being processed in TPD	Existing MSW Facilities (No.s)	Utilization Capacity of the existing MSW facilities	Proposed MSW Facilities & Completion Timeline
Raipur	575 TPD	575 TPD	1	575 TPD	Complied MSW treatment facilities are construction and operational in all the ULBs and there is no such MSW treatment facilities proposed or under construction at present
Dhamtari	22.82 TPD	22.82 TPD	11	29.5 TPD	
Raigarh	41.6 TPD	41.6 TPD	11	44.5 TPD	
Korba	100 TPD	100 TPD	27	121.5 TPD	
Kanker	4.2 TPD	4.2 TPD	4	16.5 TPD	
Nawapara	5.9 TPD	5.9 TPD	4	16.5 TPD	
Rajim	1.63 TPD	1.63 TPD	2	9.5 TPD	
Simga	3 TPD	3 TPD	2	9.5 TPD	
Bilaspur	210 TPD	210 TPD	25	470 TPD	

VI. Bio-medical Waste Management :-

- **Total Bio-medical generation:** 19.83 Tonnes per day
- **No. of Hospitals and Health Care Facilities :** Government HCFs – 1020
Private HCFs – 3562
- **Status of Treatment Facility/ CBMWTFs :** Out of 19.83 TPD of Bio-Medical Wastes, about 9.75 TPD wastes is being disposed off in the CBWTF operating in the State. Remaining wastes i.e. 10.08 TPD is disposed off in the premises of HCFs only.

04 new CBWTFs are to be established in the State. After their installation and commissioning all the Bio-Medical Wastes generated in the State is expected to be disposed off fully in the CBWTF itself only.

Ambikapur and Bastar : Environmental Clearance and Consent to Establish issued for CBWTFs facility at Kondagaon, Bastar Division. Facility is under construction. For CBWTFs facility at Ambikapur, TOR for conduction of EIA study was issued on 11/09/2019 and public hearing has been conducted on 24/11/2020. After receipt of application for environmental clearance and Consent to Establish, the same shall be issued. Earlier expected date of completion was December 2020. Due to COVID-19 Pandemic, delay has been occurred. CECB has requested Hon'ble NGT, Principal Bench, New Delhi for

the grant of extension of timelines as per above vide letter dated 10/12/2020. Expected date of completion: June 2022.

Raigarh and Korba : For CBWTFs facility at Korba and Raigarh, TORs for conduction of EIA study were issued on 27/08/2020 and 30/09/2020 respectively. After receipt of application for environmental clearance and Consent to Establish, the same shall be issued. Due to COVID-19 Pandemic, delay has been occurred. CECB has requested Hon'ble NGT, Principal Bench, New Delhi for the grant of extension of timelines as per above vide letter dated 10/12/2020. Expected date of completion: June 2022.

VII. Hazardous Waste Management :

- **Total Hazardous Waste generation per year :** 172437.78 Metric Tonnes
- **No. of Industries generating Hazardous waste :** 413
- **Treatment Capacity of all TSDFs :** NIL
- **Avg. Quantity of Hazardous waste reaching the TSDFs and Treated :** NIL
- **Details of on-going or proposed TSDF :** Owing to the continuous follow up and pursuance of CECB, the setting-up of Common Hazardous Waste TSDF has been initiated by Chhattisgarh State Industrial Development Corporation (CSIDC) under the guidance of Department of Commerce and Industry, Govt. of Chhattisgarh. As per the information received from CSIDC the expected timelines are as follows:
 - Execution of the Agreement between the operator (M/s Ramky Enviro Engineers) and CSIDC by 15/12/2020.
 - Incorporation of the JV Company by 30/12/2020.
 - Execution of the Concession Agreement by 11/01/2021.
 - Handling over of the possession of the land to JV by 18/01/2021.

The JV will establish TSDF facility within 15 months from the date of handling over the possession of land.

VIII. Plastic Waste Management

- **Total Plastic Waste generation:** 140 TPD (Plastic waste is being treated in all the 170 ULBs of Chhattisgarh).
- **Treatment/ Measures adopted for reduction or management of plastic waste :** Recyclable plastic waste is being sold to authorized recycles and the non-recyclable plastic waste is being sent to Cement industries for coprocessing in Cement Kiln.

IX. Details of Alternate Treatment Technology being adopted by the State/UT : FSTP based on Low-cost gravity based Phytotrid technology are operational in all ULBs for treatment of Septage generated in the ULBs.

X. Identification of polluting sources including drains contributing to river pollution and action as per NGT order on insitu treatment: All the polluting sources under the ULB limits have been identified and installation of

floating racks/screens to prevent solid waste from falling into the rivers has been done.

Progress by UAD			
ULB Name	No. of Drains	No. of Drains having screens	No of screens Installed
Raipur	6	6	29
Dhamtari	4	4	7
Raigarh	12	12	35
Korba	19	19	35
Kanker	7	7	7
Nawapara	7	7	12
Rajim	4	4	4
Simga	4	4	4
Bilaspur	14	14	33
TOTAL	77	77	166

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

- The following Secretaries are responsible for the compliance of order dated 06/12/2019 in the matter of Hon'ble NGT 673/2018.
 1. Secretary, Agriculture Department
 2. Secretary, Urban Administration and Development
 3. Secretary, Department of Forest
 4. Secretary, Department of Water Resource
 5. Secretary, Department of Housing and Environment
 6. Secretary, Department of Home (Transport)
 7. Member Secretary, Chhattisgarh Environment Conservation Board.
- Also, Chief Secretary has formed Implementation Cell in their office vide order dated 25/05/2019 for implementation of orders and action plans prepared.

XII. Details of meetings carried under the Chairmanship Chief of Secretary in the State/UT: :

Chief Secretary takes review meeting of the secretaries of the concerned department from time to time. Last meeting under the Chairmanship of Chief Secretary, Government of Chhattisgarh has been held on 08/12/2020.

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

Attached as Annexure – 2.

XIV. Ground water regulation: State Government has adopted a unique scheme Narwa, Garuwa, Ghuruwa and Badi in which under the Narwa component Water Resource Department has proposed various structures on small and big nallahs of all the 146 blocks of the state for recharging ground water.

XV. Good irrigation practices being adopted by the State:

- Water Resource Department is encouraging practices for optimum utilization of irrigation water and adopting micro irrigation schemes which results in more crop per drop as per available resources.
- An action plan has been prepared with the help of Agricultural Scientists. The use of water per hectare will be reduced by installation of drip in 1606 hectare area and sprinkler in 3800 hectare area in selected river stretches. Presently, 66.30 hectare area is covered by drip and 257.21 hectare area is covered by sprinkler system for different crops.

XVI. Rainwater Harvesting:

Progress by UAD				
ULB Name	Target	Completed	In Progress	Timeline
Raipur	9766	6149	3617	March - 2024
Dhamtari	577	553	24	March - 2024
Raigarh	579	579	0	Achieved
Korba	1535	1366	169	March - 2024
Kanker	108	108	0	Achieved
Nawapara	147	147	0	Achieved
Rajim	224	221	3	March - 2024
Simga	175	101	74	March - 2024
Bilaspur	3390	3227	163	March - 2024
Total	16501	12451	4050	-

- Installation of rain water harvesting structure is under progress. Status of installation is as follows:-
- **By industries:** CECB has imposed condition regarding rain water harvesting by industries within their premises and the same is being followed by the concerned industries. Regular monitoring is being carried out for verification of the same. As per information available with CECB rain water harvesting system has been installed 425 large/medium industries and 1420 small scale industries. In addition, it has been decided to keep space (5% of total areas / minimum 05 plots) for rain water harvesting in future industrial areas.

XVII. Demarcation of Floodplain and removal of illegal encroachments:

Progress by UAD			
River Stetch	ULB Name	Encroachment identified	Encroachment removed
River Kharoon (Bhatagaon of Bendri) P-IV	Raipur	Nil	Nil
	Dhamtari	Nil	Nil
River Kelo (Raigarh of Kanaktora) P-V	Raigarh	14	11
River Hasdeo (Korba to Urga) P-IV	Korba	8	8
River Mahanadi (Sihawa to Arang) P-IV	Kanker	1	1
	Nawapara	Nil	Nil
	Rajim	Nil	Nil
River Seonath (Bemta to Simga) P-IV	Simga	4	4
Arpa River (Bilaspur) P-IV	Bilaspur	-	-
TOTAL		27	24

XVIII. Maintaining minimum e-flow of river : : There is no mandatory law specifying the level of e-flow to be maintained in the river. Water resource department is maintaining e-flow depending on the availability of water in the structure and conditional requirement. Also Water Resource Department had prepared standard operating procedures (SOP) for the five rivers Seonath, Mahanadi, Kharun, Kelo and Hasdeo for maintaining e-flow in the rivers and the same is being followed.

XIX. Plantation activities along the rivers : The present status of plantation is as follows :-

Hasdeo: 6.50 hectare (7150 no. of plants) has been covered with plantation in Korba to Urga river Stretch of Hasdeo.

Kharun: 141.160 hectare (248602 no. of plants) has been covered with plantation in Kharun river stretches.

Mahanadi: 13 hectare (14300 no. of plants) has been covered with plantation in Sihawa to Aarang river stretch.

Kelo: 8.50 hectare (16388 no. of plants) has been covered with plantation in Raigarh to Kankatora river Stretch.

Seonath: Area not available for plantation between Bemta to Simga river stretch of Seonath

Progress by UAD			
River Stetch	ULB Name	Identified area (Flood zone) along the rivers	Plantation activities done by ULBs
River Kharoon (Bhatagaon of Bendri) P-IV	Raipur	10	Nil All the flood zones are in low lying places
	Dhamtari	Nil	Nil
River Kelo (Raigarh of Kanaktora) P-V	Raigarh	1	7600
River Hasdeo (Korba to Urga) P-IV	Korba	4	3150
River Mahanadi (Sihawa to Arang) P-IV	Kanker	5	250
	Nawapara	6	1600
	Rajim	2	520
River Seonath (Bemta to Simga) P-IV	Simga	2	250
Arpa River (Bilaspur)	Bilaspur	Nil	Nil
TOTAL		30	13370

- XX. **Development of biodiversity park on flood plains by removing encroachments** : Status of Identification and removal of encroachment from banks of the river is given above. After removal of all encroachments the plantation shall be done along the banks of the river.
- XXI. **Reuse of Treated Water** : All the proposed STPs in the 5 polluted river stretches are under construction & tender phase. Treated waste water will be utilized after the completion of construction works of STPs.
- XXII. **Model River being adopted by the State & Action Proposed for achieving the bathing quality standards** : State government has prepared action plan for 05 identified polluted river stretches of Chhattisgarh State. Actions as per the action plan are being implemented to achieve the bathing quality standards for the polluted river Stretches.
- XXIII. **Status of Preparation of Action Plan by the 13 Coastal States** : Not applicable for the State of Chhattisgarh.
- XXIV. **Regulation of Mining Activities in the State/UT** : At present Double carbon printed copies of the Transit Passes are checked by the field staff and members of Flying Squad. In cases where the Transit Passes are tempered in anyways viz, cutting or overwriting, the vehicles are seized for Illegal Mining/Transportation. However, the State would like to submit that for effective monitoring of Sand Mines, amply equipped Modernized Check Posts and Departmental Monitoring Units with new

Departmental Officers/Inspectors and new Departmental technical staff at all levels is needed. As per MMDR, 1957 Act 21, cases of Illegal Mining and Transportation are registered.

- XXV. **Action against identified polluters, law violators and officers responsible for failure for vigorous monitoring :** Urban local bodies are regularly registering cases and imposing fines/penalties against identified polluters and law violators for disposal of waste in rivers as well as in municipal drains.

Details of case registered, and amount of fines/penalties collected are as follows: -

Progress by UAD		
ULB Name	No. of Cases registered	Amount of fine collected (INR)
Raipur	6819	15,02,730
Dhamtari	425	1,06,800
Raigarh	5838	13,03,850
Korba	384	3,43,400
Kanker	490	1,04,250
Nawapara	123	88,200
Rajim	88	17,900
Simga	14	2190
Bilaspur	2044	6,40,095
TOTAL	16225	41,09,415

Annexure 1

Utilization capacity of STP's (co treatment) in treatment of Septage.

Sr No.	ULB Name	Type of Treatment Plant	Permissible Capacity for treatment of STP (in KLD)	Capacity Utilized (in KLD)
1	Bhilai Nagar	Co treatment with STP	144	110
2	Bilaspur	Co treatment with STP	7100	965
3	Durg	Co treatment with STP	70	65
4	Kawardha	Co treatment with STP	210	10
5	Korba	Co treatment with STP	100	80
6	Raigarh	Co treatment with STP	50	41
7	Raipur	Co treatment with STP	557	554
8	Risali	Co treatment with STP	30	15
TOTAL			8681 KLD	1271.5 KLD

Utilization capacity of FSTP's in treatment of Septage.

Sr No.	ULB Name	Type of Treatment Plant	Capacity of FSTP (KLD)	Capacity Utilized (in KLD)
1	Kamadi	FSTP	3.0	2.7
2	Athampur	FSTP	3.0	2.7
3	Adhar	FSTP	3.0	2.0
4	Ahiwara	FSTP	5.0	4.5
5	Kalaha	FSTP	5.0	4.1
6	Ambagarh Chowki	FSTP	3.0	1.4
7	Ambikapur	FSTP	20.0	18.5
8	Antargarh	FSTP	3.0	2.7
9	Arang	FSTP	5.0	4.5
10	Arjunda	FSTP	3.0	2.7
11	Bade Bacheli	FSTP	5.0	4.5
12	Bagbahara	FSTP	15.0	13.5
13	Bagicha	FSTP	3.0	3.0
14	Balkunthpur	FSTP	3.0	3.0
15	Balod	FSTP	5.0	4.5
16	Baloda	FSTP	3.0	1.4
17	Baloda Bazar	FSTP	8.0	7.2
18	Balrampur	FSTP	3.0	3.0
19	Baramkela	FSTP	3.0	1.2
20	Barsur	FSTP	3.0	2.7
21	Basna	FSTP	3.0	2.7
22	Bastar	FSTP	3.0	2.7
23	Bemetara	FSTP	5.0	4.5

Sr No.	ULE Name	Type of Treatment Plant	Capacity of FSTP (KLD)	Capacity Utilized (in KLD)
24	Berla	FSTP	3.0	2.7
25	Bhairamgarh	FSTP	3.0	2.7
26	Bhakhara	FSTP	3.0	2.7
27	Bhanupratappur	FSTP	3.0	2.7
28	Bhatapara	FSTP	3.0	2.7
29	Bhatgaon	FSTP	8.0	7.2
30	Bhatgaon	FSTP	3.0	2.7
31	Bhilai Charoda	FSTP	3.0	3.0
32	Bhopalpattanam	FSTP	40.0	35.0
33	Bijapur	FSTP	3.0	2.7
34	Bilalgarh	FSTP	5.0	3.8
35	Bilha	FSTP	3.0	2.7
36	Birgaon	FSTP	3.0	2.7
37	Bishrampur	FSTP	63.0	25.0
38	Bodla	FSTP	3.0	3.0
39	Bodri	FSTP	3.0	2.7
40	Champa	FSTP	3.0	2.7
41	Chandrapur	FSTP	5.0	3.8
42	Charama	FSTP	3.0	2.2
43	ChhuiKhada	FSTP	3.0	2.7
44	Chhura	FSTP	3.0	1.4
45	Chhurikala	FSTP	3.0	2.7
46	Chhuriya	FSTP	3.0	1.4
47	Chikhalkasa	FSTP	5.0	1.2
48	Chirmiri	FSTP	3.0	2.7
49	Dabhra	FSTP	5.0	5.0
50	Dalli-Rajhara	FSTP	3.0	1.8
51	Dantiwada	FSTP	5.0	4.5
52	Daundi Lohara	FSTP	5.0	4.5
53	Devkar	FSTP	3.0	3.0
54	Dhamdha	FSTP	3.0	2.7
55	Dhamteri	FSTP	3.0	2.3
56	Dharamjaigarh	FSTP	8.0	7.2
57	Dipka	FSTP	3.0	2.7
58	Dongargaon	FSTP	5.0	5.0
59	Dongargarh	FSTP	3.0	2.7
60	Domapal	FSTP	5.0	3.5
61	Doundi	FSTP	3.0	2.7
62	Farasgaon	FSTP	3.0	2.7
63	Fingeshwar	FSTP	3.0	2.7
64	Gandai	FSTP	3.0	1.2

Sr. No.	ULB Name	Type of Treatment Plant	Capacity of PSTP (KLD)	Capacity Utilized (in KLD)
65	Gariyaband	FSTP	3.0	2.7
66	Gavrella	FSTP	3.0	2.1
67	Geddani	FSTP	3.0	2.7
68	Gharghoda	FSTP	3.0	2.8
69	Gobra Nawapara	FSTP	5.0	4.5
70	Gunderdehi	FSTP	3.0	2.9
71	Gurur	FSTP	3.0	2.7
72	Jagdulpur	FSTP	3.0	2.6
73	Jamul	FSTP	5.0	4.8
74	Jajjapur	FSTP	3.0	2.8
75	Jerhi	FSTP	3.0	3.0
76	Jashpur Nagar	FSTP	3.0	3.0
77	Jhagarkhand	FSTP	3.0	3.0
78	Kanker	FSTP	5.0	4.3
79	Kasdol	FSTP	5.0	4.5
80	Katghora	FSTP	5.0	4.4
81	Keskal	FSTP	3.0	2.7
82	Kharagarh	FSTP	5.0	3.5
83	Khamhariya	FSTP	3.0	2.7
84	Kharod	FSTP	3.0	2.1
85	Kharora	FSTP	3.0	2.7
86	Kharasiya	FSTP	5.0	4.5
87	Khongapali	FSTP	3.0	3.0
88	Kirandul	FSTP	5.0	4.5
89	Kirodumalnagar	FSTP	3.0	3.0
90	Kondagaon	FSTP	5.0	4.5
91	Konta	FSTP	3.0	2.7
92	Kota	FSTP	3.0	1.7
93	Kotba	FSTP	3.0	3.0
94	Kumhari	FSTP	5.0	5.0
95	Kunkuri	FSTP	3.0	3.0
96	Kura	FSTP	5.0	4.5
97	Kurud	FSTP	3.0	2.7
98	Kusmi	FSTP	3.0	3.0
99	Lallunga	FSTP	3.0	2.9
100	Lakhanpur	FSTP	3.0	2.8
101	Lawan	FSTP	3.0	2.7
102	Lorhi	FSTP	3.0	2.5
103	Maparod	FSTP	3.0	2.7
104	Mahasamund	FSTP	8.0	7.2
105	Melhar	FSTP	3.0	1.6

Sr No.	ULB Name	Type of Treatment Plant	Capacity of FSTP (KLD)	Capacity Utilized (in KLD)
106	Mana-Camp	FSTP	3.0	2.7
107	Manendragarh	FSTP	5.0	5.0
108	Maro	FSTP	3.0	2.7
109	Mungeli	FSTP	5.0	3.9
110	Nagari	FSTP	5.0	4.5
111	Naila-Janjgir	FSTP	3.0	2.8
112	Nai-Ledri	FSTP	3.0	2.9
113	Narayanpur	FSTP	5.0	4.5
114	Narharpur	FSTP	3.0	2.7
115	Nawagarh-JC	FSTP	3.0	1.2
116	Nawagarh-B	FSTP	3.0	2.7
117	NayaBardwar	FSTP	3.0	2.8
118	Pakhanjur	FSTP	3.0	2.7
119	Palari	FSTP	3.0	2.7
120	Pali	FSTP	3.0	1.2
121	Pandariya	FSTP	3.0	2.7
122	Pandatarai	FSTP	3.0	2.7
123	Parpondi	FSTP	3.0	3.0
124	Patn	FSTP	3.0	2.7
125	Pathalgaon	FSTP	3.0	2.0
126	Patbariya	FSTP	3.0	2.7
127	Pendra	FSTP	3.0	1.9
128	Pipariya	FSTP	3.0	2.7
129	Pithora	FSTP	3.0	2.7
130	Pratapapur	FSTP	3.0	3.0
131	Premnagar	FSTP	3.0	3.0
132	Pusaar	FSTP	3.0	3.0
133	Rahaud	FSTP	3.0	2.9
134	Rajim	FSTP	3.0	2.7
135	Rajnandgaon	FSTP	100.0	100.0
136	Rajpur	FSTP	3.0	1.1
137	Ramanujganj	FSTP	3.0	3.0
138	Ratanpur	FSTP	5.0	4.8
139	Sahaspur-Lohara	FSTP	3.0	2.7
140	Saja	FSTP	3.0	2.7
141	Sakti	FSTP	3.0	2.4
142	Sarangaon	FSTP	3.0	2.1
143	Saraipali	FSTP	5.0	4.5
144	Sarangarh	FSTP	5.0	5.0
145	Sargaon	FSTP	3.0	1.5
146	Sariya	FSTP	3.0	1.4

Sr No.	ULB Name	Type of Treatment Plant	Capacity of FSTP (KLD)	Capacity Utilized (in KLD)
147	Shivpur Charcha	FSTP	3.0	3.0
148	Shivrinarayan	FSTP	3.0	2.2
149	Simga	FSTP	5.0	4.5
150	Sitapur	FSTP	3.0	2.8
151	Sukma	FSTP	5.0	4.5
152	Surajpur	FSTP	5.0	5.0
153	Takhalpur	FSTP	5.0	4.0
154	Tilda Newra	FSTP	8.0	7.2
155	Tumgaon	FSTP	5.0	4.5
156	Tundra	FSTP	3.0	2.7
157	Utai	FSTP	3.0	2.7
158	Wadrafnagar	FSTP	3.0	3.0
TOTAL			796 KLD	672.9 KLD

**Latest Water Quality of Polluted River Stretches
(Year 2022-23)**

River Hasdeo (Korba to Urga) – P-IV

Monitoring Parameter	Minimum	Maximum
pH	7.03	7.61
B.O.D. (3-days at 27°C) (Mg/L)	0.2	2.6
Dissolved Oxygen (Mg/L)	6.8	8.4
Coliform (MPN/100 ml)	14	62

River Kharoon (Bhatagon to Bendri) – P-IV

Monitoring Parameter	Minimum	Maximum
pH	7.12	7.85
B.O.D. (3-days at 27°C) (Mg/L)	2.1	3.5
Dissolved Oxygen (Mg/L)	5.1	7.5
Coliform (MPN/100 ml)	26	90

River Mahanadi (Shihava to Arang) – P-IV

Monitoring Parameter	Minimum	Maximum
pH	7.12	8.2
B.O.D. (3-days at 27°C) (Mg/L)	0.9	4.0
Dissolved Oxygen (Mg/L)	5.8	7.6
Coliform (MPN/100 ml)	10.2	170

River Sheonath (Bemta to Simga) – P-IV

Monitoring Parameter	Minimum	Maximum
pH	6.2	8.04
B.O.D. (3-days at 27°C) (Mg/L)	1.2	4.2
Dissolved Oxygen (Mg/L)	3.4	7.8
Coliform (MPN/100 ml)	34	80

River Kelo (Raigarh to Kanaktora) – P-IV

Monitoring Parameter	Minimum	Maximum
pH	7.1	8.4
B.O.D. (3-days at 27°C) (Mg/L)	0.7	3.0
Dissolved Oxygen (Mg/L)	6.0	9.6
Coliform (MPN/100 ml)	7	80