



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 November, 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. 8806 / TECH/ H.O./CECB /2024 Nava Raipur Atal Nagar, Raipur, Dated: 02/11/2024
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
२९ Nava Raipur Atal Nagar, Raipur (C.G.)

**Monthly Progress Report for the month of November, 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 – 57.17 Lakhs (as per 2011 census)
Present Urban Population – 74.45 Lakhs
Rural Population – 1,96,07,961 (as per 2011 census)
- II. **Estimated Sewage Generation (MLD) :** 707.84 MLD
 - a. In the state of Chhattisgarh having 190 ULBs, sewerage network is only available in 01ULB i.e., Bilaspur Municipal Corporation. There are 02 functional STPs in Bilaspur with 71 MLD capacity. In addition to that. 3STPs 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 2.1MLD capacity is operational at Mini Mata Chowk. State has developed 04 STPs of 63.2 MLD capacity under AMRUT mission in Raigarh, Rajnandgaon & Jagdalpur 07 STPs of 58.2 MLD capacity from the state budget in Nawapara, Rajjim, Dhamtari & Nava Raipur. State is developing 01 STP of 33 MLD capacity in co-ordination with M/s NTPC at Korba.
 - b. The state has developed about 907.0 MLD capacity of STP for the treatment of used water from the urban households through
 - i. 20 Operational STPs (435.5 MLD),
 - ii. 07 Under Construction STPs (47.8 MLD) and
 - iii. 14 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 twins pits. So, all ULBs have established Faecal sludge treatment facility for the treatment for the treatment of septage generated from the households of the ULBs. A total number of 159 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.The 10 ULBs namely Raipur, Raigarh, Bilaspur, Durg, Risali, Bhilai, Korba, Jagdalpur, Kawardha and Kirodimal Nagar are using nearby STPs for co-treatment of septage.
 - d. 5 STPs in ULBs namely Kumhari (80 MLD), Sakti (4MLD), Shivrinarayan (2.2 MLD), Dantewada (2.8 MLD) and Chandrapur (1.7 MLD) are proposed under state dudget and STPs in 05 AMRUT cities

namely Durg (77.0 MLD), Bhilai (150 MLD), Korba (33 MLD) and Ambikapur (32.0 MLD) and Rajnandgaon (41 MLD) are proposed under AMRUT budget, 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) :** 20 STPs with total treatment capacity of 435.5 MLD
- **Capacity Utilization of existing STPs :** 317.7 MLD.
- **No. of Under Construction STPs and Treatment Capacity (in MLD):** 07 STPs with total treatment capacity of 47.8 MLD.
- **No. of Proposed STPs and Treatment Capacity (in MLD):** 14 STPs with total treatment capacity of 423.7 MLD.
- **MLD of sewage being treated through Alternate technology :** 160 ULBs is being treated through FSTPs (Low-cost gravity based Planted Drying Bed) and in 09 ULBs treatment of faecal sludge from septic tank is done through co-treatment with STPs. **Annexure – 1.**
- **Gap in Treatment Capacity in MLD :** 390.14 MLD
- **No. of Operational STPs :** 20
- **No. of Complying STPs :** 20
- **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.	Chilhathi (Bilaspur)	17 MLD	15.5 MLD	Operational	Complied
2.	Domuhani (Bilaspur)	54 MLD	23.8 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	35.0 MLD	Operational	Complied
6.	Nimora (Raipur)	90 MLD	90.0 MLD	Operational	Complied
7.	Chandandih (Raipur)	75 MLD	55.0 MLD	Operational	Complied
8.	Banjipali (Raigarh)	25 MLD	22.5 MLD	Operational	Complied
9.	Bade Atarmoda (Raigarh)	07 MLD	4.0 MLD	Operational	Complied
10.	Balikota (Jagdalpur)	25 MLD	15.5 MLD	Operational	Complied
11.	Mohad (Rajnandgaon)	6.2 MLD	3.0 MLD	Operational	Complied
12.	Nawapara	7.6 MLD	2.8 MLD	Operational	Complied
13.	Rajim	2.8 MLD	0.7 MLD	Operational	Complied
14.	Dhamtari	19.6 MLD	7.5 MLD	Operational	Complied
15.	Nava Raipur-Zone 2	10 MLD	2.0 MLD	Operational	Complied
16.	Nava Raipur-Zone 3	7 MLD	0.6 MLD	Operational	Complied
17.	Nava Raipur-Zone 4	10.0 MLD	4.0 MLD	Operational	Complied
18.	Nava Raipur-Zone Sector 19	1.2 MLD	1.2 MLD	Operational	Complied
19.	Bhilai Steel Plant (Bhilai)	30 MLD	26 MLD	Operational	Complied

20.	Kirodimalnagar	5 MLD	1 MLD	Operational	Complied
Total		435.5 MLD	317.7 MLD	Operational	

Details of under construction STPs in the State

No.	Location	Capacity of the plant in MLD	Physical Progress in %	Status of I&D or House sewer connections	Completion Timeline	Remark
1.	Nava Raipur-Zone 1(Raipur)	10 MLD	98% completed.	50%	31.12.2023	Stay Order by High Court
2.	Kanker	7.7 MLD	100% completed	100%	30.09.2024	Dry Run under progress
3.	Simga	2.8 MLD	100% completed	100%	30.09.2024	
4.	Champa	5.3 MLD	96% completed	100%	31.01.2025	Electro Mechanical Work in Progress
5.	Koni C (Bilaspur)	6 MLD	95% completed	0%	28.02.2025	-
6.	Mangla B (Bilaspur)	10 MLD	61% completed	0%	28.02.2025	Civil work in progress
7.	Mangla D (Bilaspur)	6 MLD	76% completed	0%		Electro Mechanical Work in Progress
TOTAL		47.8 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	31.03.2024 (i.e. 3 years after approval of DPR by NTPC Authority)

			Hon'ble N.G.T. can be complied 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	Expected Completion Timeline
1	Kumhari	80 MLD	Administrative Sanction obtained	
2	Sakti	4.0 MLD		
3	Shivrinarayan	2.2 MLD		
4	Dantewada	2.8 MLD		
5	Chandrapur	1.7 MLD		
6	Durg (Zone 1)	47.0 MLD	Proposed under AMRUT 2.0 (Administrative Sanction Accorded & under Tender process)	Tender invited. Expected Completion Timeline is 2 years from date of Contract award.
7	Durg (Zone 2)	30.0 MLD		
8	Bhilai	150 MLD		
9	Korba	33 MLD		
10	Ambikapur (STP 1)	2.0 MLD		
11	Ambikapur (STP 2)	14.0 MLD		
12	Ambikapur (STP 3)	16.0 MLD		
13	Rajnandgaon (Zone 1)	15.0 MLD		
14	Rajnandgaon (Zone 2)	26.0 MLD		
	Total	423.7 MLD		

Polluted River Stretches wise STPs Status					
River Stretch	ULB Name	STP Location	STP capacity	Status of STPs	Expected Completion Timeline
River Kharoon (Bhatagaon to Bendri)P-II	Raipur	Bhatagaon	06 MLD	Operational	Completed
		Kara	35 MLD		
		Nimora	90 MLD		
		Chandandih	75 MLD		
	Nava Raipur	Zone 2	10 MLD	Operational	Completed
		Zone 3	7 MLD		
		Sector 19	1.2 MLD		
		Zone 4	10 MLD		
		Zone 1	10 MLD	Under Construction	Stay by Hon'ble High Court, Bilaspur
	Dhamtari	Mujgahan	19.6 MLD	Operational	Completed
River Kelo (Raigarh to Kanaktora)P-V	Raigarh	Banjipali	25 MLD	Operational	Completed
		Bade	07 MLD		

		Atarmoda			
River Hasdeo (Korba to Urga)P-V	Korba	Korba	33 MLD	Proposed	Tender Invited, ETC: 2 years form date of Contract Award
	Champa	Champa	5.3 MLD	Under Construction	31.01.2025
River Mahanadi (Sihawa to Aarang) P-V	Kanker	Kanker	7.7 MLD	Under Construction	Dry run under progress till 15.01.25
	Nawapara	Nawapara	7.6 MLD	Operational	Completed
	Rajim	Rajim	2.8 MLD	Operational	
River Seonath (Bemta to Simga) P-IV	Simga	Simga	2.8 MLD	Under Construction	Dry run under progress till 15.01.25
Arpa River (Bilaspur) P-IV	Bilaspur	Chilhathi	17 MLD	Operational	Completed
		Domuhani	54 MLD		
		Mangla B	10 MLD	Under Construction	28.02.2025
		Mangla D	6 MLD		28.02.2025
		Koni C	6 MLD		28.02.2025
TOTAL			448 MLD		

IV. Details of Industrial Pollution :

- **No. of industries in the State : 6475**
- **No. of water polluting industries in the State : 1037**
- **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 : 1030**
- **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 190 Urban Local Bodies with a population of 57.17 Lakhs as per census 2011.
- **Current municipal solid waste generation :** 2455 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 (376 MRFs, 189 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

190 ULBs	376 Nos. of MRF	189 Nos. of Composting Units	02 Nos. of Integrated Solid Waste Management facility in Raipur & Bilaspur	95% Door to Door collection of waste in all 3255 wards of state	169 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 necessary infrastructures for proper solid waste management in 21 newly formed ULBs notified in the year 2023-24 will be developed within 3 years.
- **No. and capacity of C&D waste processing plants in TPD (existing, proposed and under construction) :** 65 TPD capacity at Raipur and 15 TPD capacity at Korba Municipal corporation.
- **Total no. of wards, no. of wards having door to door collection service, no. of wards practicing segregation at source :** There are 3255 wards door to door collection services and source segregation are being practiced.
- **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	Expected Completion Timeline	Remarks
1	Kharun	Raipur	1	28.85 Acre	01.07.2025	Under Progress
2	Kelo	Raigarh	1	06.65 Acre	Completed	100% Remediated
3	Hasdeo	Korba	1	10.20 Acre	Completed	100% Remediated

- **No. of drains falling into rivers and no. of drains having floating racks/screens installed to prevent solid waste from falling into the rivers:** 77 drains are falling into the 6 river stretches from 9 ULBs and a total of 143 screens are installed covering all the 6 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	698.0 TPD	684.0 TPD	1 ISMM Facility	1250 TPD	Complied MSW treatment facilities are construction and operational in all the ULBs and there is no such MSW treatment facilities
Dhamtari	22.84 TPD	21.28 TPD	11	70 TPD	
Raigarh	33.56 TPD	30.85 TPD	14	77.2 TPD	
Korba	115 TPD	115 TPD	26	155.5 TPD	
Kanker	7.90 TPD	7.35 TPD	4	18.5 TPD	
Nawapara	10.10 TPD	9.97 TPD	4	18.5 TPD	
Rajim	5.30 TPD	4.97 TPD	2	9.5 TPD	

Simga	4.6 TPD	4.09 TPD	2	9.45 TPD	proposed or under construction at present
Bilaspur	265 TPD	260 TPD	18 MRF, 1 ISMM Facility	592.5 TPD	

VI. Bio-medical Waste Management :-

- **Total Bio-medical generation:** 9.418 Tonnes per day
- **No. of Hospitals and Health Care Facilities :** No. of Bedded Hospital 2498
No. of Health Care Facilities 7230
- **Status of Treatment Facility/ CBMWTFs :** Out of 9.418 TPD of Bio-Medical Wastes, about 8.29 TPD wastes is being disposed off in the CBWTF operating in the State. Remaining wastes i.e. 1.128 TPD is disposed off in the premises of HCFs only.

03 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.

Bastar : Environmental Clearance and Consent to Establish issued for CBWTFs facility at Kondagaon, Bastar Division. Construction work of CBWTFs has stopped due to objection of local people. Now matter is in high Court.

Raigarh: CBWTFs facility has been installed and the authorization application of Bio Medical waste is under process.

Korba: Public hearing was held on 13.03.2024 final EC is pending. IMA Korba has filed a write WPC-1415 of 2024 date 11.03.2024 court case is pending.

VII. Hazardous Waste Management :

- **Total Hazardous Waste generation per year :** 152074 Metric Tonnes
- **No. of Industries generating Hazardous waste :** 587
- **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.
- EC and CTE has been obtained by Facility CTO application is under process. TSDF Facility will be expected to start by December 2024.

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 Phytorid 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	12
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	143

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	10100	6661	3439	March - 2025
Dhamtari	577	575	2	March - 2025
Raigarh	579	579	0	Achieved
Korba	1752	1449	303	March - 2025
Kanker	108	108	0	Achieved
Nawapara	147	147	0	Achieved
Rajim	270	268	2	Jun - 2025
Simga	184	115	69	March - 2025
Bilaspur	3390	3265	125	March - 2025
Total	17107	13167	3940	-

- 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	14
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	36	36
TOTAL		63	63

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	3600
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	50
Arpa River (Bilaspur)	Bilaspur	Nil	Nil
TOTAL		30	13620

- 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 :**
- Raipur Municipal Corporation (RKC) has signed MoU on 19.06.2024 with industries including Hira Steel Ltd. For 2 MLD, R.R Ispat Ltd. For 0.1 MLD, Alok Ferro Alloys Ltd. For 1 MLD and Hira Ferro Alloys Ltd. For 0.9 MLD, to utilize total 4 MLD of water from the 90 MLD Nimora STP.
 - RMC has ongoing discussions with Adani Power Plant for use of 68 MLD treated water from 90 MLD Nimora STP.
 - CSIDC has written a letter to RMC for reuse of 4.5 MLD treated water from Nimora STP, for which the discussion is under process.
 - RMC has signed MoU on 03.11.2023 with Maa Kudargarhi Industry for 2 MLD treated water and with Brajesh Steel Industry on 02.01.2024 for 7 MLD treated water from 35 MLD STP at Kara.
 - The survey work by Godawari power and iron ltd. For use of treated water from 35 MLD STP at Kara is under process
 - The survey for pipeline installation has been conducted, and the DPR preparation is in progress.
 - RMC has prepared a pre- feasibility report and submitted a draft MoU to NSPCL, Bhiali on 14.03.2024 to use the treated STP water from 75 MLD STP at Chandandih. The MoU will be finalized after getting approval from NSPCL's Board of Directors.
 - Korba Municipal Corporation (KMC) has signed the MoU with NTPC, Korba for the 33 MLD STP at Korba.
 - KMC has prepared the revised DSR, incorporating feedback from NTPC and also shared with NTPC Korba for final approval process for utilizing 20.5 MLD of treated STP water.
 - Bilaspur Municipal Corporation has shared draft MoU with NTPC, Sipat on 16.07.2024 to use the treated STP water from STPs at Bilaspur.
 - Raigarh Municipal Corporation is progress of exploring the potential users (NTPC and Jindal Steel) of the treated water from two STPs of Raigarh with capacity 25 MLD & 7 MLD.
 - Apart from the above currently the treated water from STP is being utilized in road washing and landscaping works by ULB itself.
- 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 tampered in any ways 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	9192	22,95,480
Dhamtari	437	1,08,300
Raigarh	6177	13,70,700
Korba	426	3,49,500
Kanker	497	1,04,750
Nawapara	139	89,060
Rajim	92	18,550
Simga	53	4550
Bilaspur	2078	6,50,414
TOTAL	19091	49,91,304

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	Burg	Co treatment with STP	70	65
4	Kawardha	Co treatment with STP	210	10
5	Kotba	Co treatment with STP	300	80
6	Raigarh	Co treatment with STP	50	41
7	Rajnagar	Co treatment with STP	957	854
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	Aamadi	FSTP	3.0	2.7
2	Abhanpur	FSTP	3.0	2.7
3	Aadhar	FSTP	3.0	2.0
4	Ahwar	FSTP	5.0	4.5
5	Akaltara	FSTP	5.0	4.1
6	Ambagan Chowd	FSTP	3.0	1.4
7	Ambikapur	FSTP	20.0	18.5
8	Antagan	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	Baghabara	FSTP	15.0	13.5
13	Bagicha	FSTP	3.0	3.0
14	Balkumbhpur	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

(B)

Sr No.	ULB 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	Chhuikhadah	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	Chikhajakasa	FSTP	5.0	1.2
48	Chimiri	FSTP	3.0	2.7
49	Dabhra	FSTP	5.0	5.0
50	Dalli-Rajhara	FSTP	3.0	1.8
51	Dantowada	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	Dongergaon	FSTP	5.0	5.0
59	Dongargarh	FSTP	3.0	2.7
60	Dornapal	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)
55	Gariyaband	FSTP	3.0	2.7
56	Gaurella	FSTP	3.0	2.1
67	Gecdam	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	Jambul	FSTP	5.0	4.8
74	Jajajpur	FSTP	3.0	2.8
75	Jertal	FSTP	3.0	3.0
76	JashpurNagar	FSTP	3.0	3.0
77	Jhagrakhand	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	Kharviya	FSTP	5.0	4.5
87	Khongapali	FSTP	3.0	3.0
88	Kirandoli	FSTP	5.0	4.5
89	Kirodmalnagar	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	Lailunga	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	Maparlod	FSTP	3.0	2.7
104	Mahasamund	FSTP	8.0	7.2
105	Malhar	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	Naj-Ledri	FSTP	3.0	2.9
113	Narmayanpur	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	2.3
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	Patani	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	Pratappur	FSTP	3.0	3.0
131	Premnagar	FSTP	3.0	3.0
132	Puseur	FSTP	3.0	2.9
133	Rahaud	FSTP	3.0	2.7
134	Rajim	FSTP	100.0	100.0
135	Rajnandgaon	FSTP	3.0	1.1
136	Rajpur	FSTP	3.0	3.0
137	Remanviganj	FSTP	5.0	4.8
138	Ratanpur	FSTP	3.0	2.7
139	Sahaspur-Lohara	FSTP	3.0	2.7
140	-Saja-	FSTP	3.0	2.4
141	-Sakti-	FSTP	3.0	2.1
142	Saragaon	FSTP	5.0	4.5
143	Sarsipali	FSTP	5.0	5.0
144	Sarangarh	FSTP	3.0	1.5
145	Sargaon	FSTP	3.0	1.8
146	Sariya	FSTP		

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

**Latest Water Quality of Polluted River Stretches
(Year 2023-24)**

River Hasdeo (Korba to Uрга) – 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