

Status of Sewage Treatment Plants in Jharkhand (December, 2023 to March, 2024)

- Commissioned STPs -3 (2 town) with designed capacity – 15.5 MLD
- Operational STPs –3 (operational capacity –15.5 MLD) with Utilized capacity– 6.9 MLD (~44.5 % of operational capacity)
- Compliance Status of operational STPs

	Compliance w.r.t. Hon'ble NGT vide order 30.04.2019	Compliance Status w.r.t MoEF&CC norms dated 13.10.2017
Complying	1	2
Non-complying	2	1

- STPs complying for Faecal Coliform norms (<230 MPN/100ml) – 2
- STPs non-complying for Faecal Coliform norms (>230 MPN/100ml) – 1
- Disinfection system available in all 3 STPs
- BOD removal efficiency range: >90 – 2 STP, 70-90% - 1 STPs
- STPs working at under-capacity (75% of designed capacity)- 3 STPs

Operational and Compliance status of Sewage Treatment Plants in Jharkhand

S. No.	Name of STPs	Ganga Front Town	Treatment Technology	Designed Capacity (MLD)	Date of Inspection	Operational /Non-Operational Status	Compliance Status w.r.t Hon'ble NGT norms dated 30.04.2019	Compliance Status w.r.t MoEF norms dated 13.10.2017
1	Rajmahal STP	Rajmahal	SBR	3.5	05.03.2024	Operational	Non-complying TN, FC	Non-complying FC
2	Talbanna	Sahebganj	SBR	5	05.03.2024	Operational	Non-complying TSS, TN	Complying
3	Channan	Sahebganj	SBR	7	05.03.2024	Operational	Complying	Complying

- STPs complying to BOD Norms (≤ 10 mg/l) in Jharkhand (December, 2023 to March, 2024) w.r.t. NGT and MoEF norms

S. No.	Name of STPs	Ganga Front Town	Designed Capacity (MLD)	BOD (≤ 10 mg/l)
1.	Rajmahal (3.5 MLD)	Rajmahal	3.5	3
2.	Talbanna	Sahebganj	5	5
3.	Channan, KabutarKhopi	Sahebganj	7	3

- STPs complying to COD (≤ 50 mg/l) in Jharkhand (December 2023 to March, 2024) w.r.t. NGT Norms

S. No.	Name of STPs	Ganga Front Town	Designed Capacity (MLD)	COD (≤ 50 mg/l)
1.	Rajmahal (3.5 MLD)	Rajmahal	3.5	32
2.	Talbanna	Sahebganj	5	32
3.	Channan, KabutarKhopi	Sahebganj	7	32

- STPs complying to TSS (≤ 20 mg/l) in Jharkhand (December 2023-March 2024) w.r.t. NGT and MoEF norms

S. No.	Name of STPs	Ganga Front Town	Designed Capacity (MLD)	TSS (≤ 20 mg/l)
1.	Rajmahal (3.5 MLD)	Rajmahal	3.5	18
2.	Talbanna	Sahebganj	5	11
3.	Channan, KabutarKhopi	Sahebganj	7	13

- STPs complying to TSS (20 mg/l - 100 mg/l) in Jharkhand (December 2023 to March, 2024) w.r.t. MoEF&CC norms

S. No.	Name of STPs	Ganga Front Town	Designed Capacity (MLD)	TSS (20 mg/l - 100 mg/l)
1	Talbanna	Sahebganj	5	32

- STPs complying to FC (≤ 230 MPN/100 ml) in Jharkhand (December 2023 to March, 2024) w.r.t. NGT and MoEF norms

S. No.	Name of STPs	Ganga Front Town	Designed Capacity (MLD)	FC (≤ 230 MPN/100 ml)
1.	Talbanna	Sahebganj	5	2
2.	Channan, KabutarKhopi	Sahebganj	7	<1.8

- STPs complying to FC (≤ 230 MPN/100 ml) in Jharkhand (December 2023 to March, 2024) w.r.t. NGT and MoEF&CC norms

S. No.	Name of STPs	Ganga Front Town	Designed Capacity (MLD)	FC (≤ 230 MPN/100 ml)
1.	Rajmahal (3.5 MLD)	Rajmahal	3.5	1300

- STPs having Disinfection system

S. No.	Name of STPs/CETPs	Ganga Front Town	Designed Capacity (MLD)	Disinfection Technology
1.	Rajmahal (3.5 MLD)	Rajmahal	3.5	Chlorination
2.	Talbanna	Sahebganj	5	Chlorination
3.	Channan, KabutarKhopi	Sahebganj	7	Chlorination

- Performance Analysis of STPs

S.No.	Technology (No.)	Range of BOD removal efficiency (%age)				Overall complying		Overall non-complying		Non-complying Parameters either BOD, COD, TSS/FC		Non-operational
		<50	50-70	70-90	>90	Hon'ble NGT norms	MoEF&C norms	Hon'ble NGT norms	MoEF&C norms	Hon'ble NGT norms	MoEF&C norms	
1	SBR (3)			1	2	1	2	2	1	1/1	0/1	0

- STPs operating at under-capacity

S. No.	Name of STPs	Ganga Front Town	Treatment Technology	Designed Capacity (MLD)	Utilized capacity (MLD)	Compliance Status w.r.t Hon'ble NGT norms dated 30.4.2019	Compliance (MoEF & CC Norms)
1.	Rajmahal STP	Rajmahal	SBR	3.5	0.786	Non-complying	Non-complying
2.	Talbanna	Sahebganj	SBR	5	1.866	Non-complying	Complying
3.	Channan	Sahebganj	SBR	7	4.225	Complying	Complying

NGT Standards: Compliance based on norms prescribed by Hon'ble NGT vide order dt 30.04.2019 in the matter of OA no. 1069/2018 (pH – 5.5-9.0, BOD <10mg/l, TSS< 20mg/l, COD< 50mg/l; Faecal Coliform – desirable <100MPN/100ml & permissible < 230 MPN/100 ml, Nitrogen-Total < 10 mg/l and Phosphorous-Total < 1.0 mg/l (TP compliance for discharge into ponds and lakes).

Compliance compared with MoEF&CC notification dt. 13.10.2017: Standard for treated sewage from STPs for cities other than metro cities, state capitals and union territories were notified as pH-6.5-9.0, BOD as 30mg/L, Total suspended solids (TSS) as less than 100mg/L and Faecal coliform as less than 1000MPN per 100mL.