

**Status of Sewage Treatment Plants in Jharkhand (August-November, 2023)**

- Commissioned STPs -3 (2 town) with designed capacity – 15.5 MLD
- All 03 STPs operational with Utilized capacity– 9.5 MLD (~61.29 % 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	0	3
Non-complying	3	0

- STPs complying for Faecal Coliform norms (<230 MPN/100ml) – 3
- STPs non-complying for Faecal Coliform norms (>230 MPN/100ml) – 0
- Disinfection system available in all 3 STPs.
- STPs receiving weak sewage: 2 STPs
- BOD removal efficiency range: >90 – 2 STP, 70-90%-1 STPs
- STPs working at under-capacity-2 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	07.11.2023	Operational	Non-complying TSS, TN	Complying
2	Talbanna	Sahebganj	SBR	5	07.11.2023	Operational	Non-complying TSS, TN	Complying
3	Channan, Kabutar Khopi	Sahebganj	SBR	7	07.11.2023	Operational	Non-complying TN	Complying

- STPs complying to BOD Norms ( $\leq 10$ mg/l) in Jharkhand (August-November, 2023) w.r.t. NGT and MoEF norms

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

- STPs complying to COD ( $\leq 50$  mg/l) in Jharkhand (August-November, 2023) w.r.t. NGT Norms

S. No.	Name of STPs	Ganga Front Town	Designed Capacity (MLD)	COD ( $\leq 50$ mg/l)
1.	Rajmahal (3.5 MLD)	Rajmahal	3.5	48
2.	Talbanna	Sahebganj	5	24
3.	Channan, Kabutar Khopi	Sahebganj	7	20

• STPs complying to TSS ( $\leq 20$  mg/l) in Jharkhand (August-November, 2023) w.r.t. NGT and MoEF norms

S. No.	Name of STPs	Ganga Front Town	Designed Capacity (MLD)	TSS ( $\leq 20$ mg/l)
1.	Rajmahal (3.5 MLD)	Rajmahal	3.5	16
2.	Talbanna	Sahebganj	5	11
3.	Channan,KabutarKhopi	Sahebganj	7	5

• STPs complying to FC ( $\leq 230$  MPN/100 ml) in Jharkhand (August-November, 2023) w.r.t. NGT and MoEF norms

S. No.	Name of STPs	Ganga Front Town	Designed Capacity (MLD)	FC ( $\leq 230$ MPN/100 ml)
1.	Rajmahal (3.5 MLD)	Rajmahal	3.5	<1.8
2.	Talbanna	Sahebganj	5	<1.8
3.	Channan,KabutarKhopi	Sahebganj	7	<1.8

• STPs having Disinfection system

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

• STPs with weak strength sewage (<40 mg/l)

S. No.	Name of STPs	Ganga Front Town	Treatment Technology	Designed Capacity (MLD)	Inlet BOD (mg/l)
1.	Rajmahal (3.5 MLD)	Rajmahal	SBR	3.5	24
2.	Talbanna	Sahebganj	SBR	5	38

• Performance Analysis of STPs

S.No.	Technology (No.)	Range of BOD removal efficiency (%)				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&CC norms	Hon'ble NGT norms	MoEF&CC norms	Hon'ble NGT norms	MoEF&CC norms	
1	SBR (3)	-		1	2	0	3	3	0	2/0	0/0	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 (3.5 MLD)	Rajmahal	SBR	3.5	1.238	Non-complying	Complying
2.	Talbanna	Sahebganj	SBR	5	2.363	Non-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.*