

Status of Sewage Treatment Plants in Bihar(January-March,2023)

Commissioned STPs – 5 (2 town) with designed capacity – 203.5 MLD

- Operational STPs – 4 (Operational capacity –200 MLD) with utilized capacity – 62.8 MLD (~ 31.4 % 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	4
Non-complying	3	0

- 3.5 MLD Sonapur STP was found non-operational
- STPs complying for Faecal Coliform norms (<230 MPN/100ml) – 4
- STPs non-complying for Faecal Coliform norms (>230 MPN/100ml) – 0
- Disinfection system available at all 5 STPs.
- 12 STPs are under-construction in Bihar
- BOD removal efficiency range: 50-70%-1 STP and 70-90%-3STPs
- STPs working at under-capacity-4 STPs

Operational and Compliance status of Sewage Treatment Plants in Bihar

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&CC norms dated 13.10.2017
1.	Beur New STP, Patna	Patna	SBR	43	23.08.2022	Operational	Non-complying T.N.	Complying
2.	KarmaliChak STP	Patna	SBR	37	23.08.2022	Operational	Non-complying T.N.	Complying
3.	Pahari (New) STP, 60MLD	Patna	SBR	60	12.08.2022	Operational	Non-complying T.N.	Complying
4.	Saidpur (60 MLD) STP	Patna	SBR	60	12.08.2022	Operational	Complying	Complying
5.	Sonapur STP, 3.5MLD,	Sonapur	SBR	3.5	09.08.2022	Non-operational	-	-

- STPs complying to BOD Norms ($\leq 10\text{mg/l}$) in Bihar (January-March,2023) w.r.t. NGT and MoEF&CC norms

S. No.	Name of STPs	Ganga Front Town	Designed Capacity (MLD)	BOD ($\leq 10\text{ mg/l}$)
1	Beur New, Patna	Patna	43	5
2	KarmaliChak	Patna	37	4
3	Pahari (New) STP, 60MLD	Patna	60	4
4	Saidpur (60 MLD) STP	Patna	60	3

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

S. No.	Name of STPs	Ganga Front Town	Designed Capacity (MLD)	COD (≤ 50 mg/l)
1	Beur New, Patna	Patna	43	32
2	KarmaliChak	Patna	37	28
3	Pahari (New) STP, 60MLD	Patna	60	16
4	Saidpur (60 MLD) STP	Patna	60	12

- STPs complying to TSS (≤ 20 mg/l) in Bihar (January-March,2023) w.r.t. NGT and MoEF&CC norms

S. No.	Name of STPs	Ganga Front Town	Designed Capacity (MLD)	TSS (≤ 20 mg/l)
1	Beur New, Patna	Patna	43	20
2	KarmaliChak	Patna	37	12
3	Pahari (New) STP, 60MLD	Patna	60	6
4	Saidpur (60 MLD) STP	Patna	60	6

- STPs complying to FC (≤ 230 MPN/100 ml) in Bihar (January-March,2023) 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	Beur New, Patna	Patna	43	<1.8
2	KarmaliChak	Patna	37	<1.8
3	Pahari (New) STP, 60MLD	Patna	60	ND
4	Saidpur (60 MLD) STP	Patna	60	ND

- STPs having Disinfection system

S. No.	Name of STPs	Ganga Front Town	Designed Capacity (MLD)	Disinfection Technology
1	Beur New, Patna	Patna	43	Chlorination
2	KarmaliChak	Patna	37	Chlorination
3	Pahari (New) STP, 60MLD	Patna	60	Chlorination
4	Saidpur (60 MLD) STP	Patna	60	Chlorination
5	Sonepur STP, 3.5MLD,	Sonepur	3.5	Ultra-Violet Radiations

- Disinfection status and compliance for FC

Total Monitor ed STPs	No. of STP RC Measu red	No. of STP RC Detected	Disinfe ction system availab le	Disinfecti on system not available	Chlorination		Ozonation		UV treatment		Non-Complia nce for FC (>230MP N/100 ml)
					Numb er	Complyi ng for FC	Num ber	Complyi ng for FC	Num ber	Complyi ng for FC	
5	3	3	5	0	4	4	-	-	1	-	0

- Inlet BOD range

Inlet BOD			STPs with weak sewage (upto 40 mg/l)	Treated sewage Complying w.r.t BOD (<10mg/l)	Inlet BOD				Overall compliance for BOD	
≤ 10 mg/l	11-20 mg/l	21-40mg/l			40-100 mg/l	100 - 150 mg/l	150-250mg/l	>250mg/l	Complying Treated sewage w.r.t BOD (<10mg/l) (NGT)	complying Treated sewage w.r.t BOD (<30mg/l)
2		2	4	4	9	8	12	-	20	28

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

S. No.	Name of STPs	Ganga Front Town	Treatment Technology	Designed Capacity (MLD)	Utilized capacity (MLD)	BOD
1	Beur New, Patna	Patna	SBR	43	12	24
2	Karmali Chak	Patna	SBR	37	21	18
3	Pahari (New) STP	Patna	SBR	60	4.9	10
4	Saidpur STP	Patna	SBR	60	24.9	12

- STPs operating at under-capacity

S. No.	Name of STPs	Ganga Front Town	Treatment Technology	Designed Capacity (MLD)	Utilized capacity (MLD)	Compliance (MoEF & CC Norms)
1.	Beur New, Patna	Patna	SBR	43	12	Complying
2.	KarmaliChak	Patna	SBR	37	21	Complying
3.	Pahari (New) STP, 60MLD	Patna	SBR	60	4.9	Complying
4.	Saidpur (60 MLD) STP	Patna	SBR	60	24.9	Complying

- Non-operational STPs

Name of STPs	Ganga Front Town	Treatment Technology	Designed Capacity (MLD)	Date of Monitoring	Operational Status	Remarks
Sonepur STP,	Sonepur	SBR	3.5	09.08.2022	Non-operational	STP was non-operational due to incomplete sewerage network. Sewerage network work will be completed within 15 days from the date of inspection.

- Under-construction STPs

S. No.	Name of STPs	Ganga Front Town	State	Treatment Technology	Designed Capacity (MLD)	Date of Monitoring	Under Construction/ Under Trial/ DPR
1.	Phulwari Shariff (6 MLD)	Patna	Bihar	SBR	6	17.02.2022	Under construction
2.	Phulwari Shariff STP (7 MLD)	Patna	Bihar	SBR	7	15.02.2022	Under construction
3.	Bakhtiarpur STP (10 MLD)	Bakhtiarpur	Bihar	SBR	10	22.02.2022	Under construction
4.	Begusarai STP (17 MLD)	Begusarai	Bihar	SBR	17	25.04.2022	Under construction

S. No.	Name of STPs	Ganga Front Town	State	Treatment Technology	Designed Capacity (MLD)	Date of Monitoring	Under Construction/ Under Trial/ DPR
	Mauza – Raja Dumri, Begusarai						
5.	Mokama STP (8 MLD) Mokama, Patna	Mokama	Bihar	SBR	8	09.05.2022	Under construction
6.	Naugachia STP (9 MLD)	Bhagalpur	Bihar	SBR	9	25.04.2022	Under trial with fresh water
7.	Kankarbagh STP	Patna	Bihar	ASP	50	11.08.2022	Under construction
8.	Maner STP	Patna	Bihar	SBR	6.5	10.08.2022	Under Construction
9.	Barh STP (11 MLD) Talimpur, PO-Barh, Dist- Patna	Barh	Bihar	SBR	11	24.08.2022	Under trial
10.	Chapra STP, 32MLD,	Chapra	Bihar	SBR	32	10.08.2022	Under construction
11.	Digha STP, 100MLD,	Patna	Bihar	ASP	100	09.08.2022	Under construction
12.	Sultanganj STP (10 MLD)	Sultanganj	Bihar	MMBR	10	23.08.2022	Under trial since June,2022. Discharge is going to anearby drain which ultimately falls into low-lying area.

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.