

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

- Commissioned STPs – 41 (28 towns) with designed capacity – 675.4 MLD
- Operational STPs – 26 (designed capacity –383.8 MLD) with Utilized capacity as-232.5 MLD (~60.6% of operational)
- 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	16
Non-complying	25	10

- Non-operational STPs – 15 (Designed capacity -291.6 MLD)
- Non-operational STPs are under-rejuvenation- 4
- STPs complying for Faecal Coliform norms (<230 MPN/100ml) – 07
- STPs non-complying for Faecal Coliform norms (>230 MPN/100ml) – 09
- Disinfection system available in 14 STPs and not available in 27 STPs.
- BOD removal efficiency range: <50%-2 STPs; 50-70%-8 STPs; 70-90%-13 STPs and >90%-3 STPs
- STPs working at over-capacity-1 STP
- STPs working at under-capacity-16 STPs

Operational and Compliance status of Sewage Treatment Plants in West Bengal

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.	Titagarh (ASP)	Titagarh	ASP	4.5	27.03.2023	Non-operational	-	-
2.	Titagarh (OP)	Titagarh	OP	4.5	27.03.2023	Non-operational	-	-
3.	Bandipur, 14MLD	Bandipur	WSP	14	14.03.2023	Operational	Non-complying BOD, COD, TSS, FC	Non-complying FC
4.	Bansberia STP	Bansberia	WSP	0.3	30.03.2023	Operational	Non-complying BOD	Complying
5.	Kamarhati STP	Kamarhati	TF	60	15.11.2022	Non-operational/ Under Rejuvenation	-	-
6.	Garulia STP	Garulia	WSP	4.1	27.03.2023	Operational	Non-complying BOD, COD,	Complying

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
7.	Bhadreswar STP	Bhadreshwar	AL	7.6	30.03.2023	Operational	Non-complying BOD, COD, TSS, T.N,	Complying
8.	Baidyabati STP	Baidyabati	AL	6	30.03.2023	Operational	Non-complying TSS	Complying
9.	Howrah STP (Arupara)	Howrah	ASP	65	10.11.2022	Non-operational/ Under Rejuvenation	-	-
10.	Kona STP (Chakpara, Anandanagar Gram, Bally) Panchayat)	Howrah	ASP	62	10.11.2022	Non-operational/ Under Rejuvenation	-	-
11.	Champadani	Champdani	OP	1	09.12.2022	Non-Operational	-	-
12.	Panihati STP	Panihati	WSP	12	14.03.2023	Operational	Non-complying FC	Non-complying FC
13.	Gayeshpur	Kanchrapara	SBR	8.33	02.03.2023	Operational	Non-complying T.N.	Complying
14.	Halisahar, 16 MLD	Halishar	SBR	16	23.03.2023	Operational	Non-complying TSS, T.N.	Complying
15.	Serampore STP	Serampore	TF	18	07.12.2022	Non-operational	-	-
16.	Konnagar (Rishra)	Konnagar	WSP	22	30.03.2023	Operational	Non-complying BOD, COD, TSS	Non-complying BOD
17.	Murshidabad STP	Murshidabad	Oxidation Pond	1.96	06.12.2022	Non-Operational	-	-
18.	Berhampore	Berhampore	WSP	3.7	05.12.2022	Non-Operational	-	-
19.	Jiaganj- Azimganj STP	Jiaganj- Azimganj	WSP	1.39	07.12.2022	Non-operational/ Under Rejuvenation	-	-

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
20.	Naihati STP	Naihati	ASP	11.56	02.03.2023	Operational	Non-complying BOD, COD, TSS, T.N., FC	Non-complying FC
21.	Naihati-2 (NearRamghat) , 6.5 MLD	Naihati	WSP	6.5	02.03.2023	Non-operational	-	-
22.	Chandannagar STP (OP)	Chandannagar	WSP	4.54	30.03.2023	Operational	Non-complying T.N.	Complying
23.	Chandannagar STP (TF)	Chandannagar	TF	18.6	30.03.2023	Operational	Non-complying T.N.	Complying
24.	Jaggadal – Bhatpara	Bhatpara	FBBAS	31	20.03.2023	Operational	Non-complying T.N.	Complying
25.	Jagaddal, Bhatpara	Bhatpara	ASP	9.5	20.03.2023	Operational	Non-complying BOD, COD,T.N.	Complying
26.	Kankinara STP	Bhatpara	WSP	10	23.03.2023	Operational	Non-complying TSS, COD, FC	Non-complying FC
27.	Barrackpore STP (6 MLD) , Lat Bagan	Barrackpore	SBR	6	13.03.2023	Operational	Non-complying TSS	Complying
28.	Barrackpore STP (18 MLD) , Anandapuri	Barrackpore	SBR	18	13.03.2023	Operational	Non-complying BOD, TSS, T.N.	Complying
29.	Garden Reach STP	Kolkata	ASP	57.5	28.03.2023	Operational	Non-complying T.N, FC	Non-complying FC
30.	Cossipore, Chitpur, Bangur	Kolkata	ASP	52	10.03.2023	Operational	Non-complying BOD, FC	Non-complying FC
31.	South Suburban	Kolkata	AL	45	28.02.2023	Non-operational	-	-

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
	/Kearapukur, Haridevpur							
32.	Shyamnagar STP	Kolkata	FBAS	10	20.03.2023	Operational	Complying	Complying
33.	Baghajatin, 15MLD	Baghajatin	WSP	15	28.02.2023	Operational	Non-complying BOD, COD, T.N, FC	Non-complying BOD, FC
34.	Hatisur	Kolkata	Aeration through Long Channel Traverses (ALCT)	10	10.03.2023	Operational	Non-complying BOD, FC, T.N.	Non-complying FC
35.	Budge Budge STP, 9.33MLD	Budge-Budge	SBR	9.3	28.03.2023	Operational	Non-complying TSS	Complying
36.	Nabadwip STP (10 MLD) (WSP)	Nabadwip	WSP	10.5	07.12.2022	Non-operational	-	
37.	Nabadwip (9.5 MLD) ASP	Nabadwip	ASP	9.5	16.03.2023	Operational	Non-complying TSS, COD, TN	Complying
38.	Katwa STP (5.49 MLD) (WSP)	Katwa	WSP	5.49	06.12.2022	Non-operational	-	
39.	Kalyani Block-B2,B3	Kalyani	TF	11	30.03.2023	Operational	Non-complying BOD, TSS, T.N, and COD	Complying
40.	Kalyani Town area	Kalyani	WSP	10	30.03.2023	Operational	Non-complying BOD, COD, TSS T.N. & FC	Non-complying BOD, FC
41.	Diamond Harbour STP	Diamond Harbour	WSP	2.03	10.11.2022	Non-operational	-	-

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

S.No.	Name of STPs	Ganga Front Town	Designed Capacity (MLD)	BOD ($\leq 10 \text{ mg/l}$)
1.	Baidyabati STP	Baidyabati	6	10
2.	Panihati STP	Panihati	12	6
3.	Gayeshpur	Kanchrapara	8.33	7
4.	Halisahar, 16 MLD	Halishar	16	2
5.	Chandannagar STP (OP)	Chandannagar	4.54	3
6.	Chandannagar STP (TF)	Chandannagar	18.6	3
7.	Jaggadal – Bhatpara	Bhatpara	31	3
8.	Kankinara STP	Bhatpara	10	9
9.	Barrackpore STP (6 MLD) , Lat Bagan	Barrackpore	6	7
10.	Garden Reach STP	Kolkata	57.5	3
11.	Shyamnagar STP	Kolkata	10	3
12.	Budge Budge STP, 9.33MLD	Budge-Budge	9.3	2
13.	Nabadwip (9.5 MLD) ASP	Nabadwip	9.5	2

- STPs complying to BOD Norms (11-30mg/l) in West Bengal(January-March,2023)w.r.t. MoEF norms

S. No.	Name of STPs/CETPs	Ganga Front Town	Designed Capacity (MLD)	BOD (11 mg/l to 30 mg/l)
1.	Bandipur, 14MLD	Bandipur	14	16
2.	Bansberia STP	Bansberia	0.3	13
3.	Garulia STP	Garulia	4.1	20
4.	Bhadreswar STP	Bhadreshwar	7.6	13
5.	Naihati STP	Naihati	11.56	20
6.	Jagaddal, Bhatpara	Bhatpara	9.5	21
7.	Barrackpore STP (18 MLD) , Anandapuri	Barrackpore	18	12
8.	Cossipore, Chitpur, Bangur	Kolkata	52	23
9.	Hatisur	Kolkata	10	22
10.	Kalyani Block-B2,B3	Kalyani	11	21

- STPs non-complying to BOD ($> 30 \text{ mg/l}$) in West Bengal (January-March, 2023)w.r.t. NGT norms

S. No.	Name of STPs/CETPs	Ganga Front Town	Designed Capacity (MLD)	BOD ($> 30 \text{ mg/l}$)
1.	Konnagar (Rishra)	Konnagar	22	36

S. No.	Name of STPs/CETPs	Ganga Front Town	Designed Capacity (MLD)	BOD (> 30 mg/l)
2.	Baghajatin, 15MLD	Baghajatin	15	34
3.	Kalyani Town area	Kalyani	10	44

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

S. No.	Name of STPs	Ganga Front Town	Designed Capacity (MLD)	COD (≤ 50 mg/l)
1.	Bansberia STP	Bansberia	0.3	40
2.	Baidyabati STP	Baidyabati	6	36
3.	Panihati STP	Panihati	12	36
4.	Gayeshpur	Kanchrapara	8.33	20
5.	Halisahar, 16 MLD	Halishar	16	20
6.	Chandannagar STP (OP)	Chandannagar	4.54	8
7.	Chandannagar STP (TF)	Chandannagar	18.6	12
8.	Jaggadal – Bhatpara	Bhatpara	31	36
9.	Barrackpore STP (6 MLD) , Lat Bagan	Barrackpore	6	24
10.	Barrackpore STP (18 MLD) , Anandapuri	Barrackpore	18	24
11.	Garden Reach STP	Kolkata	57.5	44
12.	Cossipore, Chitpur, Bangur	Kolkata	52	40
13.	Shyamnagar STP	Kolkata	10	16
14.	Hatisur	Kolkata	10	40
15.	Budge Budge STP, 9.33MLD	Budge-Budge	9.3	24

- STPs non-complying to COD (>50 mg/l) in West Bengal(January-March,2023)*w.r.t.* NGT norms

S. No.	Name of STPs/CETPs	Ganga Front Town	Designed Capacity (MLD)	COD (> 50 mg/l)
1.	Bandipur, 14MLD	Bandipur	14	75
2.	Garulia STP	Garulia	4.1	97
3.	Bhadreswar STP	Bhadreshwar	7.6	64
4.	Konnagar (Rishra)	Konnagar	22	64
5.	Naihati STP	Naihati	11.56	108
6.	Jagaddal, Bhatpara	Bhatpara	9.5	81
7.	Kankinara STP	Bhatpara	10	61
8.	Nabadwip (9.5 MLD) ASP	Nabadwip	9.5	67
9.	Baghajatin, 15MLD	Baghajatin	15	60

S. No.	Name of STPs/CETPs	Ganga Front Town	Designed Capacity (MLD)	COD (> 50 mg/l)
10.	Kalyani Block-B2,B3	Kalyani	11	72
11.	Kalyani Town area	Kalyani	10	89

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

S. No.	Name of STPs	Ganga Front Town	Designed Capacity (MLD)	TSS (≤ 20 mg/l)
1.	Bansberia STP	Bansberia	0.3	18
2.	Garulia STP	Garulia	4.1	12
3.	Panihati STP	Panihati	12	16
4.	Gayeshpur	Kanchrapara	8.33	8
5.	Chandannagar STP (TF)	Chandannagar	18.6	8
6.	Jaggadal – Bhatpara	Bhatpara	31	12
7.	Jagaddal, Bhatpara	Bhatpara	9.5	17
8.	Garden Reach STP	Kolkata	57.5	18
9.	Cossipore, Chitpur, Bangur	Kolkata	52	9
10.	Shyamnagar STP	Kolkata	10	6
11.	Baghajatin, 15MLD	Baghajatin	15	7
12.	Hatisur	Kolkata	10	12

- STPs complying to TSS (21 mg/l - 100 mg/l) in West Bengal ((January-March,2023) w.r.t. MoEF norms

S. No.	Name of STPs	Ganga Front Town	Designed Capacity (MLD)	TSS (21 mg/l - 100 mg/l)
1.	Bandipur, 14MLD	Bandipur	14	66
2.	Bhadreswar STP	Bhadreshwar	7.6	24
3.	Baidyabati STP	Baidyabati	6	34
4.	Halisahar, 16 MLD	Halishar	16	39
5.	Konnagar (Rishra)	Konnagar	22	39
6.	Naihati STP	Naihati	11.56	39
7.	Kankinara STP	Bhatpara	10	94
8.	Barrackpore STP (6 MLD) , Lat Bagan	Barrackpore	6	23
9.	Barrackpore STP (18 MLD) , Anandapuri	Barrackpore	18	34
10.	Budge Budge STP, 9.33MLD	Budge-Budge	9.3	28
11.	Nabadwip (9.5 MLD) ASP	Nabadwip	9.5	50
12.	Kalyani Block-B2,B3	Kalyani	11	37

S. No.	Name of STPs	Ganga Front Town	Designed Capacity (MLD)	TSS (21 mg/l - 100 mg/l)
13.	Kalyani Town area	Kalyani	10	44

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

S. No.	Name of STPs	Ganga Front Town	Designed Capacity (MLD)	FC (≤ 230 MPN/100 ml)
1.	Gayeshpur	Kanchrapara	8.33	45
2.	Halisahar, 16 MLD	Halishar	16	<1.8
3.	Barrackpore STP (6 MLD) , Lat Bagan	Barrackpore	6	<1.8
4.	Barrackpore STP (18 MLD) , Anandapuri	Barrackpore	18	<1.8
5.	Budge Budge STP, 9.33MLD	Budge-Budge	9.3	<1.8
6.	Nabadwip (9.5 MLD) ASP	Nabadwip	9.5	<1.8
7.	Kalyani Block-B2,B3	Kalyani	11	<1.8

- STPs non-complying to FC (> 1000 MPN/100 ml) in West Bengal(January-March,2023)w.r.t. MoEF norms

S. No.	Name of STPs	Ganga Front Town	Designed Capacity (MLD)	FC (> 1000 MPN/100 ml)
1.	Bandipur, 14MLD	Bandipur	14	1100
2.	Panihati STP	Panihati	12	54000
3.	Naihati STP	Naihati	11.56	79×10^4
4.	Kankinara STP	Bhatpara	10	1600×10^2
5.	Garden Reach STP	Kolkata	57.5	4600
6.	Cossipore, Chitpur, Bangur	Kolkata	52	7000
7.	Baghajatin, 15MLD	Baghajatin	15	130×10^5
8.	Hatisur	Kolkata	10	540×10^2
9.	Kalyani Town area	Kalyani	10	49000

- STPs having Disinfection system

S. No.	Name of STPs/CETPs	Ganga Front Town	Designed Capacity (MLD)	Disinfection Technology
1.	Bansberia STP	Bansberia	0.3	Chlorination
2.	Gayeshpur	Kanchrapara	8.33	Chlorination
3.	Halisahar, 16 MLD	Halishar	16	Chlorination

4.	Chandannagar STP (OP)	Chandannagar	4.54	Chlorination
5.	Chandannagar STP (TF)	Chandannagar	18.6	Chlorination
6.	Jaggadal – Bhatpara	Bhatpara	31	Chlorination
7.	Barrackpore STP (6 MLD) , Lat Bagan	Barrackpore	6	Chlorination
8.	Barrackpore STP (18 MLD) , Anandapuri	Barrackpore	18	Chlorination
9.	Shyamnagar STP	Kolkata	10	Chlorination
10.	Budge Budge STP, 9.33MLD	Budge-Budge	9.3	Chlorination
11.	Nabadwip (9.5 MLD) ASP	Nabadwip	9.5	Chlorination
12.	Kalyani Block-B2,B3	Kalyani	11	Chlorination
13.	Kalyani Town area	Kalyani	10	Chlorination

- 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	Compl ying for FC	
41	13	13	14	27	14	7	-	-	-	-	9#

- # 10 STPs not analyzed

- Inlet BOD range

Inlet BOD			STPs with weak sewage (upto 40 mg/l)	Treated sewage Complyin g 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	Complyin g Treated sewage w.r.t BOD (<10mg/l) (NGT)	complyin g Treated sewage w.r.t BOD (<30mg/l)
2	6	3	11	10	10	5	-	-	13	23

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

S. No.	Name of STP	Ganga Front Town	Treatment Technology	Designed Capacity (MLD)	Inlet BOD (mg/l)
1	Baidyabati STP	Baidyabati	AL	6	38
2	Panihati STP	Panihati	WSP	12	16
3	Halisahar, 16 MLD	Halishar	SBR	16	14
4	Konnagar (Rishra)	Konnagar	WSP	22	19
5	Chandannagar STP	Chandannagar	WSP	4.54	14

6	Chandannagar STP	Chandannagar	TF	18.6	14
7	Kankinara STP	Bhatpara	WSP	10	3
8	Barrackpore STP, Lat Bagan	Barrackpore	SBR	6	32
9	Garden Reach STP	Kolkata	ASP	57.5	36
10	Shyamnagar STP Banerjee Para	Kolkata	FBAS	10	16
11	Budge Budge STP	Budge-Budge	SBR	9.3	4

- STPs operating at over-capacity**

Name of STPs	Ganga Front Town	Treatment Technology	Designed Capacity (MLD)	Utilized capacity (MLD)	Compliance (MoEF & CC Norms)
Bansberia STP	Bansberia	WSP	0.3	1.332	Complying

- 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.	Bandipur, 14MLD	Bandipur	WSP	14	10	Non-complying
2.	Garulia STP	Garulia	WSP	4.1	3	Complying
3.	Gayeshpur	Kanchrapara	SBR	8.33	3.2	Complying
4.	Halisahar, 16 MLD	Halishar	SBR	16	4.281	Complying
5.	Naihati STP	Naihati	ASP	11.56	5.4	Non-complying
6.	Chandannagar STP (OP)	Chandannagar	WSP	4.54	3	Complying
7.	Chandannagar STP (TF)	Chandannagar	TF	18.6	8	Complying
8.	Jaggadal – Bhatpara	Bhatpara	FBBAS	31	17	Complying
9.	Jagaddal, Bhatpara	Bhatpara	ASP	9.5	1.2	Complying
10.	Kankinara STP	Bhatpara	WSP	10	5.73	Non-complying
11.	Barrackpore STP (6 MLD) , Lat Bagan	Barrackpore	SBR	6	1.818	Complying
12.	Barrackpore STP (18 MLD) , Anandapuri	Barrackpore	SBR	18	4.776	Complying
13.	Cossipore, Chitpur, Bangur	Kolkata	ASP	52	14	Non-complying
14.	Shyamnagar STP	Kolkata	FBAS	10	5	Complying

15.	Hatisur	Kolkata	Aeration through Long Channel Traverses (ALCT)	10	1.5	Non-complying
16.	Budge Budge STP, 9.33MLD	Budge-Budge	SBR	9.3	3.993	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.