

Status of Sewage Treatment Plants in Ganga front towns of West Bengal (April-July, 2023)

- Commissioned STPs – 42 (29 towns) with designed capacity – 693.5 MLD
- Operational STPs – 25 (designed capacity –380.4 MLD) with Utilized capacity as-203.5 MLD (~ 53.5% 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	5	13
Non-complying	20	12

- Non-operational STPs – 17 (Designed capacity -313.1 MLD)
- Non-operational STPs under-rejuvenation- 4
- STPs complying for Faecal Coliform norms (<230 MPN/100ml) – 13
- STPs non-complying for Faecal Coliform norms (>230 MPN/100ml) – 12
- Disinfection system available in 14 STPs and not available in 28 STPs.
- STPs working at over-capacity-1 STP
- STPs working at under-capacity (<75% of designed capacity)-17 STPs

Operational and Compliance status of Sewage Treatment Plants in West Bengal

S. No.	Name of STPs/CETPs	Ganga Front Town	Treatment Technology	Designed Capacity (MLD)	Date of Monitoring	Operational/Non-Operational Status	Compliance w.r.t Hon'ble NGT norms dated 30.4.2019	Compliance w.r.t MoEF&CC norms dated 13.10.2017
1.	Titagarh (ASP)	Titagarh	ASP	4.5	27-07-2023	Non operational	Non-operational	
2.	Titagarh (OP)	Titagarh	OP	4.5	27-07-2023	Non operational	Non-operational	
3.	Bandipur, 14MLD	Bandipur	WSP	14.1	12-06-2023	Operational	Non-complying BOD, TSS, FC	Non-complying FC
4.	Bansberia STP	Bansberia	WSP	0.3	10-07-2023	Operational	Non-complying BOD	Complying
5.	Kamarhati STP	Kamarhati	TF	60	12.06.2023	Non-operational/ Under Rejuvenation	Non-operational	
6.	Garulia STP	Garulia	WSP	4.1	27-07-2023	Operational	Non-complying FC	Non-complying FC
7.	Bhadreswar STP	Bhadreshwar	AL	7.6	17-07-2023	Operational	Non-complying BOD, COD, TSS, FC	Non-complying FC
8.	Baidyabati STP	Baidyabati	AL	6	17-07-2023	Operational	Non-complying BOD, TSS, FC	Non-complying FC
9.	Howrah STP (Arupara)	Howrah	ASP	65	30-05-2023	Non-operational/under-rejuvenation	Non-operational	
10.	Kona STP	Howrah	ASP	62	30.05.2022	Non-operational/	Non-operational	

S. No.	Name of STPs/CETPs	Ganga Front Town	Treatment Technology	Designed Capacity (MLD)	Date of Monitoring	Operational/Non-Operational Status	Compliance w.r.t Hon'ble NGT norms dated 30.4.2019	Compliance w.r.t MoEF&CC norms dated 13.10.2017
	(Bally)					Under Rejuvenation		
11.	Champadani	Champdani	OP	1	09.12.2022	Non-Operational	Non-operational	
12.	Panihati STP	Panihati	WSP	12	12-06-2023	Operational	Non-complying FC	Non-complying FC
13.	Gayeshpur	Kanchrapara	SBR	8.33	24-07-2023	operational	Non-complying TN	Complying
14.	Halisahar, 16 MLD	Halishar	SBR	16	03-07-2023	Operational	Complying	Complying
15.	Serampore STP	Serampore	TF	18	07.12.2022	Non-operational	Non-operational	
16.	Konnagar (Rishra)	Konnagar	WSP	22	13-07-2023	Operational	Non-complying BOD, COD, TSS , FC	Non-complying FC
17.	Murshidabad STP	Murshidabad	Oxidation Pond	1.96	06.12.2022	Non-operational	Non-operational	
18.	Berhampore	Berhampore	WSP	3.7	05.12.2022	Non-Operational	Non-Operational	
19.	Jiaganj- Azimganj STP	Jiaganj- Azimganj	WSP	1.39	07.12.2022	Non-operational/ Under Rejuvenation	Non-Operational	
20.	Naihati STP	Naihati	ASP	11.56	27-06-2023	Nonoperational last 3 months	Non-Operational	
21.	Naihati-2 (Near Ramghat) , 6.5 MLD	Naihati	WSP	6.5	27-06-23	Nonoperational for few years	Non-Operational	
22.	Chandannagar STP (OP)	Chandannagar	WSP	4.54	10.07.2023	Operational	Complying	Complying
23.	Chandannagar STP (TF)	Chandannagar	TF	18.6	10.07.2023	Operational	Non-complying BOD, FC	Non-Complying FC
24.	Jaggadal – Bhatpara	Bhatpara	FBBAS	31	19-06-2023	Operational	Non-complying TN	Complying
25.	Jagaddal, Bhatpara	Bhatpara	ASP	9.5	19-06-2023	Operational	Non-complying BOD, COD TN & FC.	Non-complying BOD, FC
26.	Kankinara STP	Bhatpara	WSP	10	03.07.2023	Non-operational (Flooded STP due to rain)	Non-operational	
27.	Barrackpore STP (6 MLD) , Lat Bagan	Barrackpore	SBR	6	29-05-2023	Operational	Complying	Complying
28.	Barrackpore STP (18 MLD) , Anandapuri	Barrackpore	SBR	18	29-05-2023	Operational	Non-complying TSS	Complying

S. No.	Name of STPs/CETPs	Ganga Front Town	Treatment Technology	Designed Capacity (MLD)	Date of Monitoring	Operational/Non-Operational Status	Compliance w.r.t Hon'ble NGT norms dated 30.4.2019	Compliance w.r.t MoEF&CC norms dated 13.10.2017
29.	Garden Reach STP	Kolkata	ASP	57.5	26-06-2023	Operational	Non-complying FC	Non-complying FC
30.	Cossipore, Chitpur, Bangur	Kolkata	ASP	52	6-6-2023	Operational	Complying	Complying
31.	South Suburban /Kearapukur, Haridevpur	Kolkata	AL	45	1-6-2023	Non operational	Non-operational	
32.	Shyamnagar STP Banerjee Para	Kolkata	FBAS	10	19-06-2023	Operational	Complying	Complying
33.	Baghajatin, 15MLD	Baghajatin	WSP	15	1-6-2023	Operational	Non-complying BOD , COD , TN , TSS , FC	Non-complying FC
34.	Hatisur	Kolkata	ALCT	10	6-6-2023	Operational	Non-complying BOD, TN, FC	Non-complying FC
35.	Budge Budge STP	Budge-Budge	SBR	9.3	26-06-2023	Operational	Non-complying TSS	Complying
36.	Nabadwip STP (10 MLD)	Nabadwip	WSP	10.5	07.12.2022	Non-operational	Non-operational	
37.	Nabadwip (9.5 MLD)	Nabadwip	ASP	9.5	03-07-2023	Operational	Non-complying BOD, TN	Complying
38.	Katwa STP (5.49 MLD)	Katwa	WSP	5.49	06.12.2022	Non-operational	Non-operational	
39.	Kalyani Block-B2,B3	Kalyani	TF	11	13-07-2023	Operational	Non-complying BOD, COD, TSS, TN	Non-complying BOD
40.	Kalyani Town area	Kalyani	WSP	10	13-07-2023	Operational	Non-complying BOD, COD, TSS, TN, ,FC	Complying
41.	Diamond Harbour STP Near Police Station	Diamond Harbour	WSP	2.03	10.11.2022	Non-operational	Non-operational	
42.	Kachrapara	Kanchrapara	Aerated Lagoon	18	03-07-2023	Operational	Non-complying BOD	Complying

- STPs complying to BOD Norms ($\leq 10\text{mg/l}$) in West Bengal (April-July,2023) w.r.t. NGT norms dated 30.4.2019 and MoEF&CC norms dtd 13.10.2017

S.No.	Name of STPs	Ganga Front Town	Designed Capacity (MLD)	Outlet BOD
1.	Garulia STP	Garulia	4.1	9
2.	Panihati STP	Panihati	12	8
3.	Gayeshpur	Kanchrapara	8.33	2.3
4.	Halisahar, 16 MLD	Halishar	16	4
5.	Chandannagar STP (OP)	Chandannagar	4.54	6
6.	Jaggadal – Bhatpara	Bhatpara	31	4
7.	Barrackpore STP (6 MLD) , Lat Bagan	Barrackpore	6	1
8.	Barrackpore STP (18 MLD) , Anandapuri	Barrackpore	18	2
9.	Garden Reach STP	Kolkata	57.5	10
10.	Cossipore, Chitpur, Bangur	Kolkata	52	9
11.	Shyamnagar STP	Kolkata	10	1
12.	Budge Budge STP, 9.33MLD	Budge-Budge	9.3	2

- STPs complying to BOD Norms (11-30mg/l) in West Bengal (April-July,2023) w.r.t. MoEF&CC norms dtd 13.10.2017

S. No.	Name of STPs/CETPs	Ganga Front Town	Designed Capacity (MLD)	Outlet BOD
1.	Bandipur, 14MLD	Bandipur	14.1	25
2.	Bansberia STP	Bansberia	0.3	12
3.	Bhadreswar STP	Bhadreshwar	7.6	16
4.	Baidyabati STP	Baidyabati	6	12
5.	Konnagar (Rishra)	Konnagar	22	23
6.	Chandannagar STP (TF)	Chandannagar	18.6	12
7.	Baghajatin, 15MLD	Baghajatin	15	23
8.	Hatisur	Kolkata	10	12
9.	Nabadwip (9.5 MLD) ASP	Nabadwip	9.5	18
10.	Kalyani Town area	Kalyani	10	23
11.	Kachrapara	Kanchrapara	18	12

- STPs non-complying to BOD ($> 30 \text{ mg/l}$) in West Bengal (April-July, 2023) w.r.t. NGT norms dated 30.4.2019

S. No.	Name of STPs/CETPs	Ganga Front Town	Designed Capacity (MLD)	Outlet BOD
1.	Jagaddal, Bhatpara	Bhatpara	9.5	34
2.	Kalyani Block-B2,B3	Kalyani	11	46

- STPs complying to COD (≤ 50 mg/l) in West Bengal (April-July,2023) w.r.t. NGT norms dated 30.4.2019

S. No.	Name of STPs	Ganga Front Town	Designed Capacity (MLD)	Outlet COD
1.	Bandipur, 14MLD	Bandipur	14.1	37
2.	Garulia STP	Garulia	4.1	42
3.	Baidyabati STP	Baidyabati	6	24
4.	Panihati STP	Panihati	12	17
5.	Gayeshpur	Kanchrapara	8.33	12
6.	Jaggadal – Bhatpara	Bhatpara	31	36
7.	Barrackpore STP (6 MLD) , Lat Bagan	Barrackpore	6	12
8.	Barrackpore STP (18 MLD) , Anandapuri	Barrackpore	18	16
9.	Garden Reach STP	Kolkata	57.5	25
10.	Cossipore, Chitpur, Bangur	Kolkata	52	25
11.	Shyamnagar STP Banerjee Para, Shyam Nagar, Kolkata, West Bengal	Kolkata	10	8
12.	Hatisur	Kolkata	10	25
13.	Budge Budge STP, 9.33MLD	Budge-Budge	9.3	8
14.	Hatisur	Kolkata	10	40

- STPs non-complying to COD (>50 mg/l) in West Bengal (April-July,2023) w.r.t. NGT norms dated 30.4.2019

S. No.	Name of STPs/CETPs	Ganga Front Town	Designed Capacity (MLD)	Outlet COD
1.	Bhadreswar STP	Bhadreshwar	7.6	64
2.	Konnagar (Rishra)	Konnagar	22	84
3.	Jagaddal, Bhatpara	Bhatpara	9.5	52
4.	Baghajatin, 15MLD	Baghajatin	15	59
5.	Kalyani Block-B2,B3	Kalyani	11	112
6.	Kalyani Town area	Kalyani	10	72

- STPs complying to TSS (≤ 20 mg/l) in West Bengal (April-July,2023) w.r.t. NGT norms dated 30.4.2019 and MoEF&CC norms dtd 13.10.2017

S. No.	Name of STPs	Ganga Front Town	Designed Capacity (MLD)	Outlet TSS
1.	Bansberia STP	Bansberia	0.3	20
2.	Garulia STP	Garulia	4.1	8

S. No.	Name of STPs	Ganga Front Town	Designed Capacity (MLD)	Outlet TSS
3.	Panihati STP	Panihati	12	9
4.	Gayeshpur	Kanchrapara	8.33	7
5.	Halisahar, 16 MLD	Halishar	16	12
6.	Chandannagar STP (OP)	Chandannagar	4.54	10
7.	Chandannagar STP (TF)	Chandannagar	18.6	6
8.	Jaggadal – Bhatpara	Bhatpara	31	18
9.	Jagaddal, Bhatpara	Bhatpara	9.5	18
10.	Barrackpore STP (6 MLD) , Lat Bagan	Barrackpore	6	9
11.	Garden Reach STP	Kolkata	57.5	18
12.	Cossipore, Chitpur, Bangur	Kolkata	52	17
13.	Shyamnagar STP	Kolkata	10	5
14.	Hatisur	Kolkata	10	17
15.	Nabadwip (9.5 MLD) ASP	Nabadwip	9.5	19
16.	Kachrapara	Kanchrapara	18	10

- STPs complying to TSS (21 mg/l - 100 mg/l) in West Bengal (April-July,2023) w.r.t. MoEF&CC norms dtd 13.10.2017

S. No.	Name of STPs	Ganga Front Town	Designed Capacity (MLD)	Outlet TSS
1.	Bandipur, 14MLD	Bandipur	14.1	35
2.	Bhadreswar STP	Bhadreshwar	7.6	25
3.	Baidyabati STP	Baidyabati	6	42
4.	Konnagar (Rishra)	Konnagar	22	50
5.	Barrackpore STP (18 MLD) , Anandapuri	Barrackpore	18	32
6.	Baghajatin, 15MLD	Baghajatin	15	41
7.	Budge Budge STP, 9.33MLD	Budge-Budge	9.3	39
8.	Kalyani Block-B2,B3	Kalyani	11	37
9.	Kalyani Town area	Kalyani	10	39

- STPs complying to FC (≤ 230 MPN/100 ml) in West Bengal (April-July,2023) w.r.t. NGT norms dated 30.4.2019 and MoEF&CC norms dtd 13.10.2017

S. No.	Name of STPs	Ganga Front Town	Designed Capacity (MLD)	Outlet FC
1.	Bansberia STP	Bansberia	0.3	45
2.	Gayeshpur	Kanchrapara	8.33	<1.8

S. No.	Name of STPs	Ganga Front Town	Designed Capacity (MLD)	Outlet FC
3.	Halisahar, 16 MLD	Halishar	16	<1.8
4.	Chandannagar STP (OP)	Chandannagar	4.54	230
5.	Jaggadal – Bhatpara	Bhatpara	31	<1.8
6.	Barrackpore STP (6 MLD) , Lat Bagan	Barrackpore	6	<1.8
7.	Barrackpore STP (18 MLD) , Anandapuri	Barrackpore	18	<1.8
8.	Cossipore, Chitpur, Bangur	Kolkata	52	<1.8
9.	Shyamnagar STP Banerjee Para, Shyam Nagar, Kolkata, West Bengal	Kolkata	10	<1.8
10.	Budge Budge STP, 9.33MLD	Budge-Budge	9.3	<1.8
11.	Nabadwip (9.5 MLD) ASP	Nabadwip	9.5	<1.8
12.	Kalyani Block-B2,B3	Kalyani	11	110
13.	Kachrapara	Kanchrapara	18	<1.8

- STPs non-complying to FC (> 1000 MPN/100 ml) in West Bengal(April-July,2023) w.r.t. NGT norms dated 30.4.2019 and MoEF&CC norms dtd 13.10.2017

S. No.	Name of STPs	Ganga Front Town	Designed Capacity (MLD)	Outlet FC (> 1000 MPN/100 ml)
1.	Bandipur, 14MLD	Bandipur	14.1	540 x 10 ²
2.	Garulia STP	Garulia	4.1	14 x 10 ⁴
3.	Bhadreswar STP	Bhadreshwar	7.6	11 x 10 ³
4.	Baidyabati STP	Baidyabati	6	17 x 10 ³
5.	Panihati STP	Panihati	12	35 x 10 ³
6.	Konnagar (Rishra)	Konnagar	22	35 x 10 ²
7.	Chandannagar STP (TF)	Chandannagar	18.6	26 x 10 ⁴
8.	Jagaddal, Bhatpara	Bhatpara	9.5	16 x 10 ⁴
9.	Garden Reach STP	Kolkata	57.5	35 x 10 ²
10.	Baghajatin, 15MLD	Baghajatin	15	92 x 10 ⁴
11.	Hatisur	Kolkata	10	22 x 10 ³

- STPs in West Bengal 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

S. No.	Name of STPs/CETPs	Ganga Front Town	Designed Capacity (MLD)	Disinfection Technology
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
14.	Kachrapara	Kanchrapara	18	Chlorination

• **Inlet BOD range of STPs in West Bengal**

Inlet BOD ≤ 10 mg/l	Inlet BOD 11- 20 mg/l	Inlet BOD 21- 40mg/l	Total STPs with weak sewage (upto 40 mg/l)	Treated sewage Complying w.r.t BOD (<10mg/l)	Inlet BOD 40- 100 mg/l	Inlet BOD 100 - 150 mg/l	Inlet BOD 150- 250mg/l	Inlet BOD >250mg/l	Overall compliance for BOD	
									Complying Treated sewage w.r.t BOD (<10mg/l) (NGT)	complying Treated sewage w.r.t BOD (<30mg/l)
2	6	9	17	9	5	3	-	-	12	23

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

S. No.	Name of STP	Ganga Front Town	Treatment Technology	Designed Capacity (MLD)	Inlet BOD (mg/l)
1	Bansberia STP	Bansberia	WSP	0.3	25
2	Garulia STP	Garulia	WSP	4.1	20
3	Baidyabati STP	Baidyabati	AL	6	20
4	Panihati STP	Panihati	WSP	12	11
5	Konnagar (Rishra)	Konnagar	WSP	22	19
6	Chandannagar STP	Chandannagar	WSP	4.54	28
7	Chandannagar STP (TF)	Chandannagar	TF	18.6	28
8	Jaggadal – Bhatpara 31 MLD STP	Bhatpara	FBBAS	31	29
9	Jagaddal, Bhatpara 9.5 MLD STP	Bhatpara	ASP	9.5	39

S. No.	Name of STP	Ganga Front Town	Treatment Technology	Designed Capacity (MLD)	Inlet BOD (mg/l)
10	Barrackpore STP (6 MLD) , Lat Bagan	Barrackpore	SBR	6	11
11	Barrackpore STP (18 MLD) , Anandapuri	Barrackpore	SBR	18	12
12	Garden Reach STP	Kolkata	ASP	57.5	23
13	Shyamnagar STP	Kolkata	FBAS	10	3
14	Hatisur STP	Kolkata	Aeration through Long Channel Traverses (ALCT)	10	36
15	Budge Budge STP, 9.33 MLD	Budge-Budge	SBR	9.3	6
16	Nabadwip (9.5 MLD) ASP	Nabadwip	ASP	9.5	24
17	Kachrapara STP	Kanchrapara	Aerated Lagoon	18	21

- STPs operating at over-capacity

Name of STPs	Ganga Front Town	Treatment Technology	Designed Capacity (MLD)	Utilized capacity (MLD)	Compliance w.r.t. NGT norms dated 30.4.2019	Compliance (MoEF & CC Norms)
Bansberia STP	Bansberia	WSP	0.3	0.44	Non-complying	Complying

- STPs operating at under-capacity (<75% of designed capacity)

S. No.	Name of STPs	Ganga Front Town	Treatment Technology	Designed Capacity (MLD)	Utilized capacity (MLD)	Compliance w.r.t. NGT norms dated 30.4.2019	Compliance (MoEF & CC Norms)
1.	Bandipur, 14MLD	Bandipur	WSP	14.1	5.79	Non-complying	Non-complying
2.	Garulia STP	Garulia	WSP	4.1	1	Non-complying	Non-complying
3.	Panihati STP	Panihati	WSP	12	1.83	Non-complying	Non-complying
4.	Gayeshpur	Kanchrapara	SBR	8.33	3.82	Non-complying	Complying
5.	Halisahar, 16 MLD	Halishar	SBR	16	2.78	Complying	Complying
6.	Chandannagar STP (TF)	Chandannagar	TF	18.6	9	Non-complying	Non-Complying
7.	Jaggadal – Bhatpara	Bhatpara	FBBAS	31	17.85	Non-complying	Complying
8.	Jagaddal, Bhatpara	Bhatpara	ASP	9.5	1.23	Non-complying	Non-complying
9.	Barrackpore STP (6 MLD) , Lat Bagan	Barrackpore	SBR	6	0.59	Complying	Complying

S. No.	Name of STPs	Ganga Front Town	Treatment Technology	Designed Capacity (MLD)	Utilized capacity (MLD)	Compliance w.r.t. NGT norms dated 30.4.2019	Compliance (MoEF & CC Norms)
10.	Barrackpore STP (18 MLD) , Anandapuri	Barrackpore	SBR	18	5.1	Non-complying	Complying
11.	Cossipore, Chitpur, Bangur	Kolkata	ASP	52	16	Complying	Complying
12.	Shyamnagar STP Banerjee Para	Kolkata	FBAS	10	2.2	Complying	Complying
13.	Baghajatin, 15MLD	Baghajatin	WSP	15	6.26	Non-complying	Non-complying
14.	Hatisur	Kolkata	ALCT	10	1.19	Non-complying	Non-complying
15.	Budge Budge STP, 9.33MLD	Budge-Budge	SBR	9.3	6.4	Non-complying	Complying
16.	Nabadwip (9.5 MLD) ASP	Nabadwip	ASP	9.5	5	Non-complying	Complying
17.	Kachrapara	Kanchrapara	Aerated Lagoon	18	7.86	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.