



Speed Post

File No. A-14011/1/2015-UPC-I

Date: 05/04/2019

To,

289
The Commissioner,
Municipal Corporation Gurugram,
C-1, Info City, Sector - 34,
Gurugram, Haryana - 122004

SHOW CAUSE NOTICE UNDER SECTION 5 OF THE ENVIRONMENT (PROTECTION) ACT, 1986 FOR NON-COMPLYING SEWAGE TREATMENT PLANTS INSTALLED AT GURUGRAM, HARYANA

WHEREAS, Ministry of Environment & Forests, Govt. of India, vide notification S.O.157(E) of 27.02.1996 has delegated powers vested under section 5 of the Environment (Protection) Act,1986 (29 of 1986) to the Chairman, Central Pollution Control Board (CPCB), to issue direction to any Industry, Municipal Corporation, Municipal Council, Cantonment Board to any local or other Authority for the violation of emission and effluent standards notified under the Environment (Protection) Rules,1986 and other standards and norms; and

Whereas, sewage is a major cause for poor water quality and adversely impacts human health and aquatic life. The discharge of untreated, partially treated and treated sewage not meeting standards is further adding to the problem of water pollution and very sizeable gap exist in generation and treatment of sewage at Gurugram; and

Whereas, the Central Government has notified the General Discharge Standards of Environmental Pollutants from various sources including municipal wastewater under the Environment (Protection) Act,1986 and the rules framed there under (schedule VI); and

Whereas, CPCB had issued directions to Haryana Pollution Control Board vide letter no. No. A-19014/43/06-MON dated 21/04/2015 under Section 18 (1) b of Water (Prevention and Control of Pollution) Act, 1974 to direct Gurugram Municipal Corporation to develop infrastructure for sewage management and operate the STPs within stipulated norms; and

Whereas, it is obvious that the Continuous Effluent Monitoring Stations (OCEMS) was not found at the outlet of sewage treatment plant during the visit and non registration of CEMS of STP with CPCB.

Whereas, Hon'ble NGT in matter of OA No. 593/2017 (WP (Civil) No. 375/2012) dated 31/08/2018 has directed CPCB as under:

"The CPCB may take penal action for failure, if any, against those accountable for setting up and maintaining STPs, CETPs and ETPs. CPCB may also assess and recover compensation for damage to the environment".

Whereas, CPCB prepared a methodology for levying penalty in reference to Hon'ble NGT order dated 31/08/2018 for discharge in violation of consent conditions mainly prescribed standards/consent limits; and

Whereas, CPCB has carried out monitoring of STPs installed at Gurugram during the year of 2018. There are 06 STPs installed in Gurugram with capacity of **408 MLD** and actual utilization is **300 MLD**. Out of 06 STPs, 02 STPs with installed Capacity (160 MLD) are located in Behrampur region and 04 STPs (248 MLD) located in Dhanwapur region. Detailed assessment report is attached as **Annexure-I**. Brief status of non-compliance by STPs is as follows:

Sl. No	STP Location	Date of Inspection	Installed Capacity (MLD)	Parameters				Non-Complying Parameter(s)
				pH	BOD (mg/l)	COD (mg/l)	TSS (mg/l)	
General Discharge Standards				5.5-8.5	30	250	100	
1	Dhanwapur Phase I	12/05/2018	68	7.58	79	189	44	BOD
2	Dhanwapur Phase II	-do-	100	7.59	41	104	23	BOD
3	Dhanwapur Phase III	-do-	30	6.99	141	313	166	BOD, COD, TSS

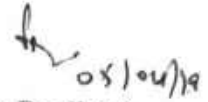
WHEREAS, it is evident from the above observations that STPs at Dhanwapur Phase – I, II & III located in Gurugram, Haryana have violated General Discharge Standards and discharging partially treated effluent and posing potential threat to the surrounding environment; and

WHEREAS, it is obvious that non-compliance by the STPs operated by Gurugram Municipal Corporation is continuing, water quality of Najafgarh Jheel is getting adversely affected and there is a need to prevent further deterioration of the water quality of natural water resources.

Now, therefore, in view of the above observations and in exercise of powers delegated to the Chairman, Central Pollution Control Board under section 5 of the Environment (Protection) Act, 1986, show cause notice is hereby served to explain the reasons as to why action should not be taken against Gurugram Municipal Corporation including levying of Environmental Compensation for non-compliances of identified STPs with respect to General Discharge Standards.

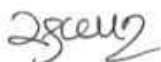
Gurugram Municipal Corporation is also hereby directed to submit time bound action plan for corrective action in the matter including augmentation and upgradation of these STPs so as to ensure compliance with the notified/prescribed standards.

The reply to the Show Cause Notice shall be submitted by Gurugram Municipal Corporation to this office within 7 days from the date of receipt of this notice failing which appropriate action as per the provision of the Environment (Protection) Act, 1986 /National Green Tribunal Act, 2010 including prosecution will be initiated.


(S. P. Singh Parihar)
CHAIRMAN

Copy to:

1. The Chairman, : for kind information and ensure
Haryana Pollution Control Board compliance please.
C-11, Sector 6, Panchkula, Haryana
2. The Secretary,
Ministry of Environment, Forests, & Climate Change
Indira Bhawan, Aliganj, Jorbagh Road,
New Delhi-110003
3. The Secretary
Ministry of Water Resources,
River Development & Ganga Rejuvenation
626, Shram Shakti Bhawan, Rafi Marg.
New Delhi 110001
4. The Secretary
Ministry of Housing and Urban Affairs
Mulana Azad Road, Rajpath Area
Central Sectariat, New Delhi- 110001
5. Yamuna Monitoring Committee
Office of YPMC, Room No.58
India International Centre, Max Muller Marg
Lodhi Estate, New Delhi-110003
- ✓ 6. DH-IT Division
7. DH-IPC-VI
8. DH-WQM-I Division


(A. Sudhakar)
Member Secretary



BRIEF STATUS REPORT OF SEWAGE TREATMENT PLANTS (STPS) MONITORED IN GURUGRAM, HARYANA

Gurugram which is also known as Gurgaon is a city located in the northern Indian State of Haryana. It is one of the major satellite cities of Delhi and is part of the National Capital Region. Gurugram has become a leading financial and industrial hub. As per Census of India the population of Gurugram city is 902112 as on 2011.

Central Pollution Control Board (CPCB) has carried out Inventorization of Sewage Treatment Plants in India during 2014-15 and published a report "Inventorization of Sewage Treatment Plants in India". As per the information received there are 06 STPs installed in Gurugram with capacity of **408 MLD** and actual utilization is **300 MLD**. Out of 06 STPs 02 STPs with installed Capacity (160 MLD) are located in Behrampur region Sector and 04 STPs with installed Capacity (248 MLD) in Dhanwapur region.

In Gurugram, out of 06 STPs, 05 STPs are found Operational and 01 STP of 50 MLD capacity is under construction. CPCB carried out monitoring of 06 STPs during 12/05/2018 and analytical results of Sewage Treatment Plants are tabulated at Annexure – I. The major observations made with respect to analysis report and field visit are mentioned below:

- With respect to BOD, 03 STPs installed at Dhanwapur Phase I (68 MLD), Dhanwapur Phase II (100 MLD) and Dhanwapur Phase III (30 MLD) are not meeting the General Standards for Discharge of Environmental Pollutants into inland surface, public Sewers, land for irrigation, marine coastal areas under Schedule-VI of The Environment (Protection) Rules, 1986
- With respect to COD & TSS, 01 STP installed at Dhanwapur Phase III (30 MLD) UASB based is not meeting the General Standards for Discharge of Environmental Pollutants into inland surface, public Sewers, land for irrigation, marine coastal areas under Schedule-VI of The Environment (Protection) Rules, 1986.
- STP at Behrampur receives 115 MLD of sewage against the capacity of 160 MLD. At Behrampur, 02 STPs are installed in two phase i.e. Phase-I - 40 MLD (ASP based) and Phase-II – 120 MLD (SBR based).
- STP at Dhanwapur receives 185 MLD of sewage against the capacity of 248 MLD. At Dhanwapur, 04 STPs are installed in four phase i.e. Phase-I - 68 MLD (ASP based), Phase-II – 100 MLD (ASP based), Phase –III – 30 MLD (UASB based) and Phase-IV - 50 MLD (SBR based).
- Dhanwapur Phase – III sewage treatment plant with installed capacity 30 MLD, UASB based was found non functional. Polish ponds are filled with sludge and partition wall is broken down.

Annexure-I

Table 1: Analytical results of Physio-Chemical & Microbiology Lab

S. No.	STP Name	Technology	Istalled Capacity (MLD)	Actual Treatment Capacity (MLD)	PARAMETERS							
					pH	TSS 100 (mg/l)	COD 250 (mg/l)	BOD 30 (mg/l)	NH ₃ -N (mg/l)	Phosphate (mg/l)	Total Coliform (MPN/100 ml)	Fecal Coliform (MPN/100 ml)
1	Behrampur Phase I	ASP	40	25	7.04	136	292	153	28	3.44	79 x 10 ⁶	79 x 10 ⁶
					7.71	<10	31	12	17	2.51	49 x 10 ³	22 x 10 ³
2	Behrampur Phase II	SBR	120	90	7.04	136	292	153	28	3.44	79 x 10 ⁶	79 x 10 ⁶
					7.48	21	46	23	20	3.92	79 x 10 ⁴	79 x 10 ⁴
3	Dhanwapur Phase I	ASP	68	50	6.96	228	523	274	34	3.58	22 x 10 ⁷	14 x 10 ⁷
					7.58	44	189	79	24	2.63	17 x 10 ⁷	17 x 10 ⁷
4	Dhanwapur Phase II	ASP	100	100	7.05	2015	479	210	30	2.81	17 x 10 ¹⁰	39 x 10 ⁹
					7.59	23	104	41	36	4.31	13 x 10 ⁵	13 x 10 ⁵
5	Dhanwapur Phase III	UASB	30	35	7.12	150	346	184	20	1.97	16 x 10 ¹⁰	24 x 10 ⁸
					6.99	166	313	141	37	2.94	16 x 10 ⁸	54 x 10 ⁸
6	Dhanwapur	SBR	50	0	Under Construction							
Total			408	300								

Note: Monitoring was conducted on 12.05.2018

Table 2: Analytical results of Heavy Metals

S. No.	STP Name	Technology	Istalled Capacity (MLD)	Actual Treatment Capacity (MLD)	Sampling Location	PARAMETERS								
						Co 0.002 (mg/l)	Cr 0.002 (mg/l)	Cu 0.003 (mg/l)	Fe 0.002 (mg/l)	Mn 0.002 (mg/l)	Ni 0.003 (mg/l)	Pb 0.013 (mg/l)	Sb 0.015 (mg/l)	Zn 0.002 (mg/l)
1	Behrampur Phase I	ASP	40	25	Inlet	BDL	BDL	0.02	1.34	0.07	BDL	BDL	BDL	0.12
					Outlet	BDL	BDL	BDL	0.09	0.05	BDL	BDL	BDL	BDL
2	Behrampur Phase II	SBR	120	90	Inlet	BDL	BDL	0.02	1.34	0.07	BDL	BDL	BDL	0.12
					Outlet	BDL	BDL	BDL	0.41	0.08	BDL	BDL	BDL	BDL
3	Dhanwapur Phase I	ASP	68	50	Inlet	BDL	0.4	0.14	2.59	0.24	0.08	BDL	BDL	0.51
					Outlet	BDL	0.06	0.03	0.37	0.13	0.03	BDL	BDL	BDL
4	Dhanwapur Phase II	ASP	100	100	Inlet	BDL	0.35	0.12	2.24	0.24	0.07	BDL	BDL	0.44
					Outlet	BDL	0.02	BDL	0.12	0.15	0.01	BDL	BDL	BDL
5	Dhanwapur Phase III	UASB	30	35	Inlet	0.01	0.7	0.03	2.39	0.25	BDL	BDL	BDL	1.13
					Outlet	BDL	0.08	0.04	2.3	0.24	BDL	BDL	BDL	BDL
6	Dhanwapur	SBR	50	0	Under Construction									

Note: Monitoring was conducted on 12.05.2018