केन्द्रीय प्रदूषण नियंत्रण बोर्ड
CENTRAL POLLUTION CONTROL BOARD
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय भारत सरकार
MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE GOVT. OF INDIA

Speed Post

File No. A-14011/1/2015-UPC-I 370.

Date: 05/04/2019

To,

The Engineer In Chief,
Public Health Engineering Department,
Bay No. 13-18, Sector 4, Panchkula,
Haryana – 134112

SHOW CAUSE NOTICE UNDER SECTION 5 OF THE ENVIRONMENT (PROTECTION) ACT, 1986 FOR NON-COMPLYING SEWAGE TREATMENT PLANTS INSTALLED AT JIND, 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 Jind; 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 Public Health Engineering Department to develop infrastructure for sewage management and operate the STPs within stipulated norms; and

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 Jind during the year of 2018. In Jind District, there are 09 Sewage Treatment Plants (STPs) installed with treatment capacity of **47.25 MLD** and actual utilization is **29.45 MLD**. Out of 09 STPs, 03 STPs are installed in Jind, 03 STPs in Narwana, 02 STPs in Uchana and 01 STP in Julana. 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	**Narwana Road Jind**	14/04/2018	05	7.59	**85**	176	37	BOD
2	**Uchana Phase I**	-do-	02	7.7	**87**	**261**	**130**	BOD, COD, TSS
3	**Narwana Phase II**	-do-	3.75	7.48	**106**	216	61	BOD
4	**Narwana Dablain Road**	-do-	02	7.53	**34**	120	22	BOD
5	**Jind**	-do-	15	7.55	**49**	152	65	BOD

WHEREAS, it is evident from the above observations that STPs at Narwana Road Jind, Uchana Phase I, Jind, Narwana Phase I and Narwana Dablain Road, located in Jind, 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 Public Health Engineering Department is continuing, water quality of nearby aquatic resources 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 Public Health Engineering Department including levying of**

Environmental Compensation for non-compliances of identified STPs with respect to General Discharge Standards.

Public Health Engineering Department 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 Public Health Engineering Department 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.

07/08/19

(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 resource,
   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. DH-IT Division
6. DH-WQM-I Division
7. DH-IPC-VI Division

(A.Sudhakar)
Member Secretary

Annexure - I

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

Jind is a small city in the Indian state of Haryana. It is one of the oldest districts of Haryana. As per Census of India the population of Jind city is 167592 as on 2011. In Jind District, there are 09 Sewage Treatment Plants (STPs) installed with treatment capacity of **47.25MLD**and actual utilization is **29.45 MLD**. Out of 09 STPs 03 STPs are installed in Jind, 03 STPs in Narwana, 02 STPs in Uchana and 01 STP in Julana.

In Jind 09 STPs are established and all are operational and which are based on OP (01STP), SBR (01 STP) and MBBR (07 STPs). The treated water of Sewage Treatment Plants are used for irrigation purpose only.Central Pollution Control Board carried out monitoring of 09 STPs during 16/04/2018andanalytical results of Sewage Treatment Plants are tabulated at Annexure – II. The major observations made with respect to analysis report and field visit are mentioned below:

- With respect to BOD, 05 STPs installed at Jind (15 MLD), NarwanaDablain Road (2 MLD), Narwana Phase II (3.75 MLD), Uchana Phase I (2 MLD) and JindNarwana Road (5 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 Uchana Phase I (2 MLD) 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.
- Jind STPs receives20 MLD of sewage against the capacity of 30 MLD. At Jind 03 STPs installed 10 MLD (SBR based), 5 MLD (MBBR based) and 15 MLD (MBBR based).
- STP at Narwana receives5.15 MLD of sewage against the capacity of 9.25 MLD. At Narwana, 03 STPs installed,3.5 MLD (MBBR), 3.75 MLD (MBBR) and 2 MLD (MBBR).
- STP at Uchana receives1.8 MLD of sewage against the capacity of 3.5 MLD. At Uchana, 02 STPs installed in two phase i.e. Phase-I - 02 MLD (OP based) and Phase-II – 1.5 MLD (MBBR).
- Julana STP receive 2.5 MLD of sewage against the capacity of 4.5 MLD which is based on MBBR technology.

Annexure-II

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

S. No.	STP Name	Technology	Istalled Capacity (MLD)	Actual Treatment Capacity (MLD)	Sampling Location	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	Jind Road	SBR	10	4	Inlet	7.44	98	337	151	45	3.34	$78x10^6$	78x10
					Outlet	6.82	14	70	13	12	1.59	$49x10^3$	49x10
2	Narwana road Jind	MBBR	5	3	Inlet	7.44	55	237	97	54	5.38	$68x10^5$	68x10
					Outlet	7.59	37	176	**85**	33	2.63	$17x10^5$	17x10
3	Uchana Phase I	OP	2	1	Inlet	7.21	204	383	162	48	4.63	$16x10^7$	92x10
					Outlet	7.7	**130**	**261**	87	39	0.98	$13x10^4$	13x10
4	Uchana Phase II	MBBR	1.5	0.8	Inlet	7.12	118	402	178	54	3.55	$48x10^6$	48x10
					Outlet	7.44	19	97	22	19	1.04	$12x10^4$	12x10
5	Narwana Phase I	MBBR	3.5	1.4	Inlet	6.95	240	509	267	55	4.18	$15x10^7$	84x10
					Outlet	7.63	18	85	30	39	3.29	$35x10^4$	17x10
6	Narwana Phase II	MBBR	3.75	2.75	Inlet	7.07	193	513	301	47	3.8	$17x10^6$	11x10
					Outlet	7.48	61	216	**106**	55	3.04	$49x10^4$	49x10
7	NarwanaDablain Road	MBBR	2	1	Inlet	7.29	292	514	214	56	6.34	$11x10^8$	33x10
					Outlet	7.53	22	120	**34**	42	3.52	$11x10^5$	11x10
8	Jind	MBBR	15	13	Inlet	7.34	153	278	150	45	3.91	$22x10^8$	22x10
					Outlet	7.55	49	152	**65**	45	3.66	$16x10^6$	92x10
9	Julana	MBBR	4.5	2.5	Inlet	7.6	164	160	50	18	0.3	$35x10^5$	24x10
					Outlet	7.97	58	58	14	13	1.06	$92x10^5$	17x10
Total			**47.25**	**29.45**									

Note: Monitoring was conducted on 16.04.2018

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	Jind Road	SBR	10	4	Inlet	BDL	BDL	0.01	1.21	0.09	BDL	BDL	BDL	0.07
					Outlet	BDL	BDL	0.04	0.49	0.07	BDL	BDL	BDL	0.02
2	Narwana road Jind	MBBR	5	3	Inlet	BDL	BDL	BDL	0.99	0.1	BDL	BDL	BDL	0.34
					Outlet	BDL	BDL	BDL	0.53	0.14	BDL	BDL	BDL	0.04
3	Uchana Phase I	OP	2	1	Inlet	BDL	0.01	0.02	2.78	0.14	BDL	0.05	BDL	0.13
					Outlet	BDL	BDL	BDL	0.26	0.11	BDL	BDL	BDL	0.02
4	Uchana Phase II	MBBR	1.5	0.8	Inlet	BDL	BDL	0.01	1.36	0.21	BDL	BDL	BDL	0.03
					Outlet	BDL	BDL	BDL	0.2	0.11	BDL	BDL	BDL	0.02
5	Narwana Phase I	MBBR	3.5	1.4	Inlet	BDL	BDL	0.03	4.08	0.2	BDL	0.04	BDL	0.2
					Outlet	BDL	BDL	BDL	0.4	0.16	BDL	BDL	BDL	0.04
6	Narwana Phase II	MBBR	3.75	2.75	Inlet	BDL	BDL	0.03	2.81	0.12	BDL	0.23	BDL	0.14
					Outlet	BDL	BDL	BDL	0.2	0.1	BDL	BDL	BDL	0.01
7	NarwanaDablain Road	MBBR	2	1	Inlet	BDL	BDL	0.02	4.1	0.22	BDL	BDL	BDL	0.13
					Outlet	BDL	BDL	BDL	0.28	0.19	BDL	BDL	BDL	BDL
8	Jind	MBBR	15	13	Inlet	BDL	BDL	0.02	1.24	0.12	BDL	BDL	BDL	0.08
					Outlet	BDL	BDL	BDL	0.82	0.38	BDL	BDL	BDL	0.16
9	Julana	MBBR	4.5	2.5	Inlet	BDL	0.01	0.01	1.8	1.08	BDL	0.02	BDL	0.06
					Outlet	BDL	0.04	BDL	1.7	0.06	BDL	BDL	BDL	0.04

Note: Monitoring was conducted on 16.04.2018