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

स्पीड पोस्ट / ई-मेल

फ.न.-190162/CETP-Haridwar/PIAS/WQM-II/CPCB/2019-20/1342 दिनांक: May 11, 2021

सेवा में,

VICE CHAIRMAN
HAPUR-PILKHUWA DEVELOPMENT AUTHORITY (HDPA)
PREET VIHAR, DELHI ROAD, HAPUR-245 101

सीईटीपी, पिलखुवा, अनुपालन न करने के संबंध में पर्यावरण (संरक्षण) अधिनियम, 1986 की धारा 5 के तहत दिशा निर्देश- के संदर्भ में।

जबकि, भारत सरकार के पर्यावरण एवं वन मंत्रालय ने 27.02.1996 की अधिसूचना S.O.157 (ई) के माध्यम से पर्यावरण (संरक्षण) अधिनियम, 1986 (1986 के 29) की धारा 5 के तहत अध्यक्ष, सीपीसीबी को किसी भी उद्योग, नगर निगम, नगर परिषद, छावनी बोर्ड या किसी स्थानीय या अन्य प्राधिकरण को पर्यावरण (संरक्षण) नियमों, 1986 के तहत अधिसूचित उत्सर्जन और उत्प्रवाह मानकों के उल्लंघन के लिए निर्देश जारी करने के लिए निहित शक्तियां दी हैं; और

जबकि, केंद्र सरकार ने पर्यावरण) संरक्षण (अधिनियम, 1986 तहत विभिन्न श्रेणियों के उद्योगों, कॉमन एफ्लूएंट ट्रीटमेंट प्लांट्स (सीईटीपी) और सीवेज ट्रीटमेंट प्लांट्स (एसटीपी) से पर्यावरण प्रदूषकों के निर्वहन के मानकों और वहां बनाए गए नियमों को अधिसूचित किया है; और

जबकि, अन्य बातों के साथ-साथ जल (प्रदूषण निवारण एवं नियंत्रण) अधिनियम, 1974 की धारा 17 के अंतर्गत जल (रोकथाम एवं प्रदूषण नियंत्रण) अधिनियम, 1974 के तहत गठित राज्य प्रदूषण नियंत्रण बोर्डों /प्रदूषण नियंत्रण समितियों के कार्यों में से एक है, जो राज्य/1974 में धारा और कुओं की रोकथाम, नियंत्रण और कमी के लिए एक व्यापक कार्यक्रम की योजना बनाना है; और

WHEREAS, Hon'ble Supreme Court in the writ petition (c) no. 375 of 2012 pronounced judgement dated: 22/02/2017 and issued direction as under:

1. *The setting up of 'common effluent treatment plants' should be taken up as an urgent mission. CETPs which are already under implementation should be completed within the lines already postulated. CETPs which are yet to be set up, concerned State Governments/ Union Territories were directed to complete the same within three years from today (i.e.22/02/2017).*
2. *While acquiring lands for setting up of 'common effluent treatment plants' concerned State Governments will acquire such additional land as may be required for setting up "zero liquid discharge plants" as and when required in future.*
3. *Government (or the Union Territories), shall cater to the financial requirement, of running the CETPs, which are presently dis-functional, from their own financial resources.*
4. *For setting up CETPs, the concerned State Governments (or the Union Territories) will prioritize such cities, towns and villages, which discharge industrial pollutants and sewage, directly into rivers and water bodies.*

5. *The directions pertaining to continuation of industrial activity only when there is in place a functional primary ETP, and the setting up of functional CETPs, within the time lines, shall be of the Member Secretaries of the concerned Pollution Control Boards.*
6. *Some of the CETPs are dis-functional, because of lack of finances. Onus to operate the existing CETPs, rests on concerned Municipalities (and / or Local Bodies), cannot be permitted to shy away, from discharging this onerous duty.*
7. *The norms for generating funds, for setting up and / or operating the CETP shall be finalized, on or before 31.3.2017, so as to be implemented w.e.f. the next financial year.*

AND WHEREAS, Common Effluent Treatment Plant (CETP) Pilakhuwa, Textile Centre, Pilakhuwa Dehat, Pilakhuwa, Hapur was constructed by Hapur Pilakhuwa Development Authority (HPDA) with design capacity of 2.1 MLD; and

WHEREAS, CETP, Pilakhuwa based on Activated Sludge Process (ASP) was inspected by CPCB officials on 30.05.2019 and found functional during inspection and following observations were made:

1. Unit was operational at the time of inspection.
2. Flow meter is not installed at Inlet & Outlet. Flow meter installed at Flash Mixer was found non- operational.
3. Oil and Grease skimmer, flocculation and mixing unit were found not operational.
4. Filter press and pumps were not functional. Filter press unit and Filter press was found corroded.
5. Analysis results of samples taken from CETP inlet showed TSS as **358 mg/l against the norms of 350 mg/l** which does not comply with the norms prescribed by UPPCB for *CETP Inlet Effluent Quality* indicating that PETP installed by the member units are not adequate and functioning properly to achieve desired PETP treated effluent quality norms.
6. Analysis results of samples taken from CETP outlet showed FDS as **2152 mg/l against the value of 2100 mg/l** which does not comply with the norms of permissible limit for CETP Treated Effluent Quality.
7. A Harvesting water tank was observed in premise. Two pumps were observed, attached to the harvesting water tank and with pipes leading to a channel running by side of CETP boundary wall that extends to adjacent drain. On asking to operate the pump it was informed by operator that the pumps were non-operational. Analysis results of effluent stored in harvesting tank indicated **Colour 257 Hazen, BOD 98 mg/l, FDS 2068 mg/l and COD 211 mg/l. The characteristics of heavy metals, Chloride and sulphide analysis results matches with inlet effluent quality.**
8. A by-pass channel was observed, near harvesting unit, extending under the wall of CETP/ adjacent to the outlet and near the boundary wall of the CETP. There is a possibility that effluent from harvesting unit can be directly pumped to the channel flowing adjacent to the CETP wall with outfall into drain outside premises. There is a

possibility that waste water from harvesting unit can directly be pumped to the channel flowing adjacent to the CETP wall with outfall into drain outside premises.

AND WHEREAS, CPCB issued Show Cause Notice under section 5 of Environment (Protection) Act, 1986 dated 24/09/2019 to HDPA to explain the reason for non-compliance of treated effluent, storing untreated effluent in harvesting unit, having bypass arrangement and operating without valid consent to operate and why member units should also not been closed down for non-compliance of CETP inlet effluent quality norms prescribed by UPPCB and also **why appropriate environmental compensation should not be imposed**; and

WHEREAS, HDPA vide letter dated 23.12.2019 requested to revoke Show Cause Notice issued and informed following:

1. Currently 20 units are operating in Pilakhuwa Textile Centre. The scheme's entrepreneurs have been requested to form SPV and operate CETP on their own soon.
2. Since CETP has been in operation for many years, it will be appropriate that SPV may obtain CTO rather than Authority.
3. The flowmeter installed at flux meter has been shifted to inlet. Tender invited on 24/12/2019 for installation of OCEMS at Outlet and will be installed earliest after approval of the tender
4. Norms are being followed. The Carbon filter could not be installed due to poor financial situation of authority due to which sometimes TSS norm may not be complied.
5. A discussion was held with Namami Gange representatives regarding OCEMS installation and upgradation of CETP.
6. All log books are being maintained at their place and can be reviewed.
7. Oil & grease skimmer, flocculation units and mixing unit are being repaired. Tender invited on 24.12.2021 for filter press cloth, which will be repaired soon.
8. Sometimes untreated effluent was discharged into drains by industries, prevention of that was proposed through UPPCB.

AND WHEREAS, during monthly monitoring of CETP Pilakhuwa outlet recipient drain (referred above as local drain), carried out by Third Party Technical Institute on 24/02/2021, discharge from the opening of CETP boundary wall was observed while no discharge was found from CETP outlet. Samples of recipient drain wastewater were collected from upstream (400 m.) and downstream (200 m.) locations of CETP outlet. Analysis results indicates high BOD (564 mg/l) & COD (2390 mg/l) values in downstream location in comparison to the upstream location (BOD- 244 mg/l & COD- 1040 mg/l); and

WHEREAS, CETP, Pilakhuwa was inspected by CPCB officials on 22.03.2021 to verify the status of compliance and following observations were made:

1. CETP was found operational on the day of visit and intermittent inflow was observed at the time of inspection.
2. As reported by operator, 30 industries are connected to CETP.

3. The CETP comprises of inlet, oil and grease removal, equalization tank, physiochemical treatment, biological treatment with secondary clarifier, sludge tank, filter press and sludge storage shed. Chemical dosing is carried out using Ferrous sulphate, Lime and polyelectrolyte.
4. During the inspection, flowmeter at outlet was found defunct and no flow meter installed at inlet point of the CETP, however flowmeter was found installed after equalization tank.
5. OCEMS was not installed at outlet of CETP.
6. CETP have consent under Water Act, 1974 and Air Act, 1981 valid upto 31.12.2024.
7. CETP, is not having valid authorization under Hazardous and other Wastes (Management and Transboundary movement) Rules, 2016 for management and proper disposal of hazardous and other wastes.
8. Unit is a member of Bharat Oil and waste management for hazardous waste disposal and management since October 2020, but Bharat Oil has never picked up any sludge till date from CETP. Unit has not maintained sludge disposal record.
9. Filter press has been installed for solid separation but was found in corroded condition.
10. Inside the CETP premises rainy well is provided to collect storm water from nearby area through storm water drain. During inspection a very blackish effluent was observed in the rainy well and thick blackish sludge deposition observed at the bottom of storm water drain. Operator informed that textile units discharged their untreated effluent into rainy storm water drain during night hours which is being discharged to nearby Local drain through an underground pipeline without any treatment.
11. Treated effluent from CETP was being discharged into Local Drain to Kadrabad Drain to River Kali-East to River Ganga.
12. Samples were collected from CETP inlet, outlet, aeration tank, Rainy well and tube well (CETP premises) for groundwater and analysis report is as under:

Sr. No.	Parameters	CETP Inlet		CETP Outlet		Rainy Well	Ground Water
		Inlet	Inlet norms prescribed by UPPCB	Outlet	Standards as Notification dated 01-01-2016		
1	**pH**	6.9	5-9	8.1	6-9	-	7.4
2	**Colour**	-	350-400	131	-	-	BDL
3	**O&G**	-	25	BDL	10	-	-
4	**TSS (mg/l)**	224	350	**108**	100	**10909**	-
5	**BOD (mg/l)**	409	900	**107**	30	**1915**	-
6	**COD (mg/l)**	1119	1850	**382**	250	**3389**	-
7	**TDS**	2192	-	**3068**	-	**3216**	844
8	**FDS**	468	-	**2616**	1000	**2528**	-
9	**Cl^- (mg/l)**	-	-	146	1000	-	122
10	**SO_4^- (mg/l)**	-	-	78	1000	-	61

Sr. No.	Parameters	CETP Inlet		CETP Outlet		Rainy Well	Ground Water
		Inlet	Inlet norms prescribed by UPPCB	Outlet	Standards as Notification dated 01-01-2016		
11	NO_3-N (mg/l)	-	-	**19.3**	10	-	3.9
12	NH_3-N (mg/l)	BDL	50	**95**	50	-	-
13	PO_4-P	-	-	0.21	5	-	0.03
14	Conductivity	-	-	-		-	-
15	Total Alkalinity as $CaCO_3$	-	-	-		-	565
16	Total Hardness as $CaCO_3$	-	-	-		-	303
17	Phenolic	-	5	BDL	1	-	-
18	SAR	-	26	0.06	-	-	BDL
19	As (mg/l)	-	-	BDL	2	-	BDL
20	Cd (mg/l)	-	-	BDL	0.2	-	BDL
21	Co (mg/l)	-	-	BDL	0.05	-	BDL
22	Cu (mg/l)	-	-	0.04	3.0*	-	BDL
23	Fe (mg/l)	-	-	**3.63**	3	-	0.09
24	Mn (mg/l)	-	-	0.19	3	-	0.23
25	Ni (mg/l)	-	-	0.03	2	-	BDL
26	Pb (mg/l)	-	-	BDL	3	-	BDL
27	Sb (mg/l)	-	-	0.15	0.1	-	BDL
28	Se (mg/l)	-	-	BDL	0.05*	-	BDL
29	V (mg/l)	-	-	BDL	0.05	-	BDL
30	Zn (mg/l)	-	-	0.02	0.2	-	0.05
31	MLSS & MLVSS in aeration tank	MLSS-1753 mg/l & MLVSS-1299 mg/l					

Note: All values are expressed in mg/l except pH, colour (Hazen) and SAR.

* General discharge norms

13. CETP is found non-complying w.r.t. stipulated discharge standards for **TSS-108 mg/L (against norm- 100 mg/L), BOD-107 mg/L (against norm- 30 mg/L), COD-382 mg/L (against norm- 250 mg/L), FDS-2616 mg/L (against norm- 2100 mg/L), Nitrate-19.3 mg/l (against 10 mg/l), Ammoniacal Nitrogen-95 mg/l (against 50 mg/l) and iron 3.63 mg/L (against norms of 3 mg/L)** as per standards prescribed for discharge of treated effluents of CETP treated effluent into surface water.
14. The MLSS and MLVSS values in the aeration tank were found 1753 and 1299 mg/l, respectively, which indicates poor stabilization of Activated Sludge Process system due to poor operation and maintenance of CETP.
15. There is no tertiary unit for further polishing and treatment of industrial effluent.
16. Analysis result of sample collected from the rainy well showed **BOD-1915 mg/l, COD-3389 mg/l, TSS-10909 mg/l, TDS-3216 mg/l and FDS-2528 mg/l** which substantiates that rainy well is storing untreated wastewater discharged from industrial units which is discharged in to local drain without any further treatment.

AND WHEREAS, the CETP at Textile Centre, Pilakhuwa, Hapur, was inspected by National Mission for Clean Ganga (NMCG) and UPPCB officials jointly on 16.12.2020 and the effluent received at inlet of CETP was found non-complying w.r.t. norms prescribed by UPPCB for **TSS-2158 mg/L (against norm- 350 mg/L)** indicating that PETP installed by the member units are not adequate and functioning properly to achieve desired CETP inlet quality norms prescribed by UPPCB. The CETP treated effluent was also found non-complying w.r.t. discharge standards for **TSS-170 mg/L (against norm- 100 mg/L)**; and

WHEREAS, NMCG issued following directions under section 5 of Environment (Protection) Act, 1986 dated 19.03.2021 to HDPA regarding non-compliance of CETP, Pilakhuwa:

1. All industrial units without operational PETP/ETP in Pilakhuwa Textile Centre should be closed forthwith and should be allowed to operate only with the complying and functional PETP/ETP.
2. CETP in Pilakhuwa Textile Centre should be closed with immediate effect.
3. UPPCB should levy and recover the environmental compensation from State Govt. of U.P., HDPA and defaulting industrial units in Pilakhuwa Textile Centre in terms of compensation regime as fixed by the Hon'ble NGT for non-compliance CETP/effluent discharge in to drains/rivers.
4. HDPA should take urgent action for making the CETP compliant norms and for starting all allotted units in Hapur Textile Centre and connectivity/PETP functionality of all member units of 2.1 MLD CETP, Pilakhuwa in time bound manner in order to ensure optimal functioning of CETP.
5. HDPA should dismantle the water collection tank with arrangement for discharge into nearby drain and provision for groundwater recharge through rain water harvesting system should be ensured.
6. Partially treated effluent should not be allowed to discharge into river Kali (East) and thereby into river Ganga.

AND WHEREAS, members of a CETP are jointly and individually responsible for adequate pre-treatment of their effluent, proper operation and maintenance of CETP and for ensuring compliance with effluent discharge norms; and

WHEREAS, non-compliance of standards by CETP is collective non-compliance by CETP member industries, and therefore action has to be taken against CETP member industries; and

WHEREAS, despite lapse of considerable time, the state of non-compliance of standards by the CETP and member units at Textile Centre, Pilakhuwa, Hapur is continued unabated, no firm corrective action has been taken either by occupier of CETP or member units and it has become necessary to take action against the CETP and member industries; and

WHEREAS, it is understood that CETP Pilakhua and its member units were closed down by NMCG vide direction issued under section 5 of Environment (Protection) Act, 1986 dated 19.03.2021; and

It is evident that the CETP is not complying w.r.t. treated effluent quality standards. Untreated wastewater discharged by member units is being stored into rainy well located in CETP premises which is discharged in to local drain without any treatment. Discharge of partially treated/untreated effluent from CETP posing potential threat to surface water/ground water quality.

AND 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, **CETP, Pilakhuwa, Textile Centre, Pilakhuwa Dehat, Pilakhuwa, Hapur** and its member units are hereby directed to not to resume operations till the compliance of the following directions:

1. CETP shall dismantle the rainy well (Harvesting unit) along with all bypass arrangement for discharge into nearby local drain.
2. CETP shall install Online Continuous Effluent Monitoring System (OCEMS) at the outlet of CETP and ensure connectivity with CPCB/SPCB servers.
3. CETP shall install flow meter at inlet of CETP.
4. CETP shall repair the corroded filter press unit and non-operational flow meter installed at outlet of CETP.
5. CETP shall ensure the sludge uplifting on regular intervals and the sludge lying in CETP premises shall be disposed scientifically and proper record shall be maintained.
6. CETP shall comply with the conditions stipulated in the Consent To Operate (CTO) for treated effluent quality norms prescribed by UPPCB.
7. CETP shall ensure that the connected member units shall follow the PETP norms for discharge of primary treated effluent in to the CETP.
8. CETP shall maintain proper logbooks for operation, inlet/outlet characteristics.

CETP, Pilakhuwa, Textile Centre, Pilakhuwa Dehat, Pilakhuwa, Hapur shall acknowledge the receipt of direction and submit reply action taken report within 30 days from the date of receipt of this direction failing which suitable action as deemed fit under provision of the Environment (Protection) Act, 1986 will be initiated.

(शिव दास मीना)
अध्यक्ष

प्रतिलिपि सेवार्थः

1. सदस्य सचिव,
   उत्तर प्रदेश प्रदूषण नियंत्रण बोर्ड,
   भवन संख्या TC- 12V, विभूति खंड, गोमती नगर,
   लखनऊ, उत्तर प्रदेश -226 010
   : अनुपालन सुनिश्चित करने के लिए सीईटीपी के भौतिक सत्यापन एवं सीपीसीबी को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित

2. कार्यकारी निदेशक (तकनीकी),
   राष्ट्रीय स्वच्छ गंगा मिशन,
   प्रथम तल, मेजर ध्यानचंद नेशनल स्टेडियम,
   इंडिया गेट, नई दिल्ली - 110 002
   : अनुपालन सुनिश्चित करने के लिए सीईटीपी के भौतिक सत्यापन एवं सीपीसीबी को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित

3. संयुक्त सचिव (सीपी डिवीजन),
   पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय,
   इंदिरा पर्यावरण भवन, जोर बाग रोड,
   नई दिल्ली 110003
   : सूचनार्थ प्रेषित

4. जिलाधिकारी हापुड़,
   कलेक्ट्रेट, हापुड़, उत्तर प्रदेश -245 101
   : सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित

5. प्रभारी , सूचना प्रौद्योगिकी प्रभाग,
   केन्द्रीय प्रदूषण नियंत्रण बोर्ड
   : सीपीसीबी की वेबसाइट पर निर्देश अपलोड करने के लिए।

(प्रशांत गार्गव)
सदस्य सचिव