

**BEFORE NATIONAL GREEN TRIBUNAL
PRINCIPAL BENCH, NEW DELHI**

Original Application No. 622/2024

**In the matter of Varun Gulati Vs State of Haryana & Ors. in compliance to
Hon'ble NGT Order dated 28.05.2024.**

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For Filing

Date: 17.09.2024



Pardeep Singh
Regional Officer,
HSPCB, Sonipat

INTERIM COMPLIANCE REPORT

IN COMPLIANCE TO

**HON'BLE NATIONAL GREEN TRIBUNAL
ORDER DATED 28.05.2024**

IN

[ORIGINAL APPLICATION NO. 622/2024]

IN THE MATTER OF

VARUN GULATI APPLICANT(s)

Vs.

STATE OF HARYANA & ORS.RESPONDENT(s)

For Filing

**Before The Hon'ble National Green Tribunal,
Principal Bench, New Delhi**

Interim Compliance Report in compliance to Hon'ble NGT Order dated 28.05.2024 in Original Application No. 622/ 2024 in the matter of Varun Gulati Vs State of Haryana & Ors.

This report is presented in compliance to Hon'ble NGT order dated 28.05.2024 in Original Application No. 622/ 2024 in the matter of Varun Gulati Vs State of Haryana & Ors.

1. BACKGROUND AND DIRECTIONS OF HON'BLE NGT: -

The Hon'ble NGT considered the matter on 28.05.2024. The verbatim of the relevant paras of the order dated 28.05.2024 are reproduced below:

“6. Having regard to nature of allegation made in the OA, we also form a Joint Committee comprising of representative of Member Secretary, Central Pollution Control Board (CPCB) and representative of Member Secretary, HSPCB, who will act as coordinating agency. The two-member Joint Committee will visit the site, ascertain the correct position in respect of direct discharge of effluents by the industries in Drain No. 6, capacity, capacity utilization and performance of the CETP and effluents received by said CETP. The Joint Committee will also ascertain Primary Effluent Treatment Plant (PETP) standards prescribed to the member units. The Committee will also collect the samples from discharge point of CETP and Drain No. 6 and also from the point where Drain No. 6 enters Delhi and meets River Yamuna through Najafgarh drain and get the samples analysis done and submit the factual and action taken report before the Tribunal within a period of three months by e-mail at judicial-ngt@gov.in preferably in the form of searchable PDF/OCR Support PDF and not in the form of Image PDF.

7. The Committee will also examine the compliance by each of the industrial units in respect of discharge of effluent in that industrial area.”

Copy of the Hon'ble NGT order dated 28.05.2024 is placed at **ANNEXURE-I**.

2. CONSTITUTION OF JOINT COMMITTEE IN COMPLIANCE OF THE HON'BLE NGT ORDER:

In compliance of the above said orders of the Hon'ble NGT, a joint committee comprising of following members was constituted: -

1. Ms. Reena Satavan, Scientist 'E' CPCB, New Delhi.
2. Sh. Pardeep Singh, Regional Officer, HSPCB, Sonipat.

3. ISSUES RAISED IN PETITION: -

- 3.1. A 16 MLD CETP located at Barhi industrial area is receiving higher quantity of effluents from member industries and the CETP is not properly maintained.
- 3.2. The said CETP has been found non-complying w.r.t. prescribed norms repeatedly during inspections and has not complied with the directions/ orders/ notices issued by HSPCB.
- 3.3. No strict action has been taken by the concerned authorities against the defaulters.
- 3.4. The Industrial effluent is bypassed and discharged in Drain No. 6 which finally meets the River Yamuna.

4. METHODOLOGY ADOPTED BY THE JOINT COMMITTEE: -

- 4.1. In compliance to Hon'ble NGT order dated 28.05.2024, two meetings of joint committee of CPCB and HSPCB (as constituted by Hon'ble NGT) were convened through video-conferencing i.e., on 14.06.2024 and on 01.08.2024 wherein representatives from Central Pollution Control Board (CPCB) and Haryana State Pollution Control Board (HSPCB) participated.
- 4.2. During the joint committee meeting dated 14.06.2024, the following decisions were made:
 - i. HSPCB shall submit the requisite documents as preliminary information to undertake inspections.
 - ii. The monitoring of 16 MLD CETP located in Barhi industrial area shall be carried out in 1st week of July, 2024 and composite sampling is to be done for performance assessment.
 - iii. The monitoring of 10 MLD CETP located in Barhi industrial area shall also be carried out in last week of June, 2024 and composite sampling is to be done for performance assessment.
 - iv. The mapping of Drain no. 6 will be carried out by 02 teams in last week of June, 2024, starting from origin to confluence with River Yamuna. The sampling shall be performed to ascertain the quality of drain and river at representative locations.

- v. The CETPs/ STPs which are also discharging their treated wastewater into Drain no. 6 shall also be monitored, if any.
- vi. The plan to examine the compliance by industrial units discharging into CETPs at Barhi shall be worked out.

(The minutes of meeting dated 14.06.2024 are annexed herewith as **ANNEXURE-II**)

- 4.3. In compliance to the decisions taken during meeting dated 14.06.2024, the above mentioned documents were received to CPCB on 27.06.2024 from HSPCB. Accordingly, the joint committee inspected 16 MLD and 10 MLD CETPs located at HSIIDC Industrial Area, Barhi, Sonipat during July, 18-19th 2024. Also, the pollution source mapping of Drain no.6 was carried out by the joint committee during July, 22nd-24th 2024.
- 4.4. HSPCB provided a list of 253 member units of CETP at Barhi, out of which only 136 member units are industrial effluent generating and remaining 117 member units are generating only domestic wastewater.
- 4.5. In compliance to the decisions taken during meeting dated 01.08.2024, HSPCB sent a letter dated 01.08.2024 informing the number of industrial units having industrial waste water discharge into CETPs at Barhi. HSPCB letter dated 01.08.2024 is placed at **ANNEXURE-III**.

5. ACTIONS TAKEN BY THE JOINT COMMITTEE: -

5.1. Inspection and Monitoring of CETPs (16 MLD and 10 MLD):

- 5.1.1. Inspection of 16 MLD and 10 MLD CETPs were carried out by the Joint committee during July,18-19th 2024 and composite sampling (24 hrs. monitoring at 2 hrs. interval) was performed for performance evaluation of CETPs.
- 5.1.2. Total 10 no. samples were collected by the joint committee during inspection of 16 MLD and 10 MLD CETPs located at HSIIDC industrial area, Barhi, Sonipat and are deposited for analysis at the central laboratory of CPCB Head Office, Delhi. The samples were collected from the following 05 locations:
 - a) CETP Inlet (24 hrs. composite sampling) of each CETP
 - b) CETP outlet (24 hrs. composite sampling) of each CETP
 - c) Aeration tank of each CETP

- d) Final effluent disposal point (disposal point, Upstream and Downstream of disposal point), and
- e) Borewell (common for both CETPs)

5.2. Pollution source mapping of Drain no. 6:

- 5.2.1. Mapping of Drain no. 6 was carried out by the Joint committee during July, 22nd-24th2024 from its Origin at Samalkha till its confluence with Supplementary drain 1 at Makhmalpur village near Budhpur Delhi covering about 67 Km length which further travels about 14 km to meet Yamuna river through Supplementary drains and Sahibi river (Najafgarh drain) at downstream of Wazirabad barrage, Delhi.
- 5.2.2. During mapping of Drain no. 06, samples were collected from 25 locations by the joint committee and are deposited for analysis at the central laboratory of CPCB Head Office, Delhi.

5.3. Inspection of industrial units:

- 5.3.1. Inspection of all 136 effluent generating industrial units on surprise basis as per the list provided by HSPCB.
- 5.3.2. Visit to 21 dry industrial units on random basis to ascertain that the units are not using water for any industrial purpose.
- 5.3.3. The list of industries provided by HSPCB, is annexed herewith as **ANNEXURE-IV**.
- 5.3.4. Total 200 no. samples from industrial units were collected and were deposited for analysis at the laboratories of CPCB Head Office, Delhi and Regional Office Sonipat, HSPCB.

5.4. Interaction with the Applicant:

- 5.4.1. A joint committee interacted with the applicant on August, 13th 2024 and he mentioned about the issue of mixing of effluent into the storm water drain, which is finally discharged into Drain no. 6 without any treatment. Thus, for verification of the issue, the committee collected 03 no. samples of storm water in presence of the applicant, from the following locations:

- 5.4.1.1.1. Intermediate storm water pumping station at Phase-I
- 5.4.1.1.2. Main storm water pumping station at Phase-III
- 5.4.1.1.3. MPS of 10 MLD CETP

The samples were deposited for analysis at the central laboratory of CPCB Head Office, Delhi.

6. INSPECTION AND MONITORING OF CETPS (16 MLD AND 10 MLD), BARHI INDUSTRIAL AREA, SONIPAT, HARYANA:-

6.1. ABOUT BARHI INDUSTRIAL AREA, SONIPAT (HARYANA)

Barhi Industrial Area, spanning over an area of 1255 acres, which is divided into three phases – Phase-I (275.25 acres), Phase-II (332.95 acres) and Phase-III (646.86 acres). The industrial area comprises of 253 industries of different sectors mainly textile, food processing, electroplating & chemicals, etc covered under the ambit of consent management of HSPCB. Initially, a 9 MLD CETP was installed in Phase-I, which was found in dismantled condition during visit (18/07/2024). Presently, industrial area has two functional CETPs of capacity 16 MLD & 10 MLD installed in Phase-III for treatment of effluent mixed with sewage generated in all three phases.



Figure 1: Layout of Barhi Industrial Area

6.1.1. Collection & conveyance of effluent

Underground network of pipeline has been laid down in industrial area for collection & conveyance of primary treated effluent generated by industries to CETPs for final treatment and disposal. All the industries have preliminary effluent management systems for management of effluent before discharge into CETP; either a primary effluent treatment plant (PETP) or evaporator was set up by industries. PETP consists of physico-chemical treatment followed by tertiary filtration system. Pre-treated effluent along with untreated sewage generated by industries located in Phase-II reaches to MPS (dedicated for 10 MLD CETP) via underground HSIIDC sewer line. Effluent generated by industries located in Phase-I is collected in pumping station located in the old CETP premises and then transferred to the HSIIDC sewer line of Phase-III by pumping. Effluent generated by industries located in Phase-III reaches to effluent diversion chamber constructed before CETP (10 MLD & 16 MLD) premises, located at Phase-III, via underground HSIIDC sewer line. At diversion chamber, provision has been made for diversion of effluent received from Phase-I & Phase-III to either CETP's MPS, based on the respective treatment capacity. 16 MLD CETP is operational since 2017 and 10 MLD

CETP was recently commissioned on March 1st, 2024. The layout of conveyance system is depicted in Figure 2 below.

Around 17.5 MLD of mixed effluent is received at the CETPs pumping station. Around 25-30% (4.0-4.8 MLD) of received mixed effluent is transferred to 10 MLD CETP & the rest is being transferred to 16 MLD CETP existing in the same premises for treatment.



MPS-10 MLD CETP



**Effluent diversion chamber
Phase-III**

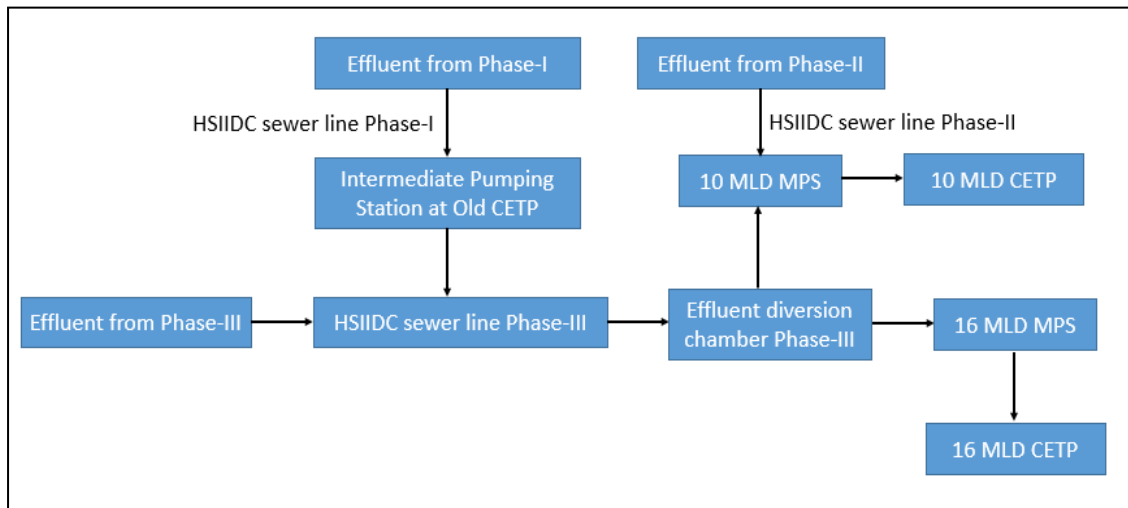


Figure 2: Layout of effluent conveyance system

6.1.2. Storm water management

Separate network of underground conveyance system has been provided for collection & transportation of storm water from Phase-II & Phase-III to storm water pumping station located at Phase-III near CETPs. Separate network for collection & pumping of storm

water from Phase-I has been provided for transferring to the main storm water pumping station located at Phase-III. Provision has been provided for disposal of storm water to Drain No. 6 as well as to both CETPs, based on the storm water characteristics.

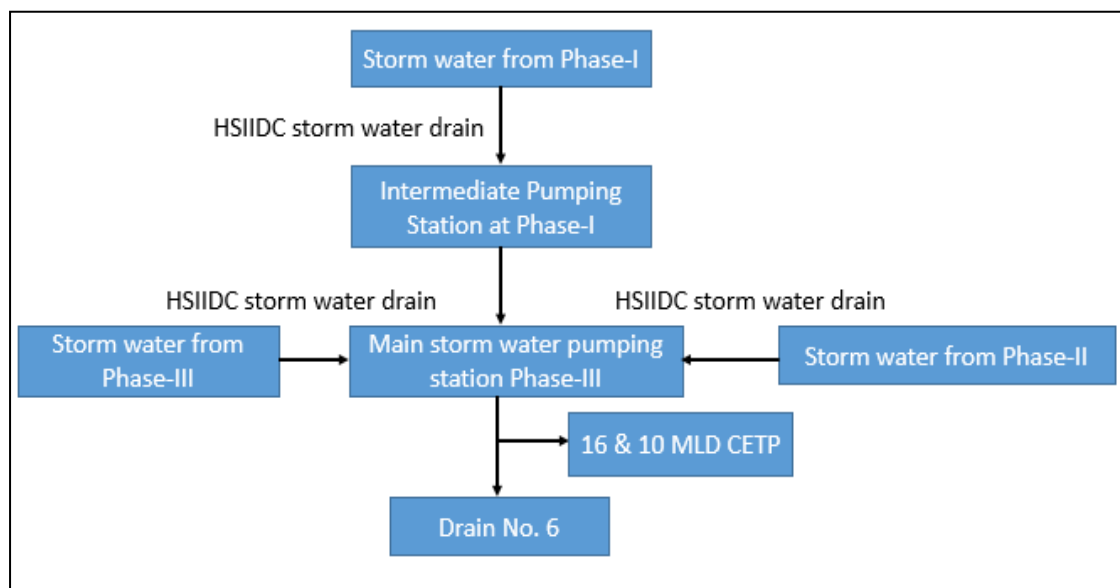


Figure 3: Layout of storm water conveyance system

During the interaction with the complainant in the subject matter, issues were raised regarding mixing of effluent into the storm water drain which is finally discharged into Drain no. 6 without any treatment. Thus, for verification of the issues raised by the complainant, the committee collected samples of storm water from the following locations:

Parameter	Sampling location	
	Intermediate storm water pumping station at Phase-I	Main storm water pumping station at Phase-III
pH	7.7	7.9
Colour (Hazen)	38	95
BOD (mg/l)	428	280
COD (mg/l)	694	618
TSS (mg/l)	146	76
TDS (mg/l)	2500	2752
FDS (mg/l)	1812	2280
Antimony (mg/l)	0.265	0.124
Arsenic (mg/l)	BDL	BDL

Cadmium (mg/l)	BDL	BDL
Chromium (mg/l)	0.131	0.302
Cobalt (mg/l)	0.002	BDL
Copper (mg/l)	0.052	0.072
Iron (mg/l)	4.43	2.41
Lead (mg/l)	0.572	0.008
Manganese (mg/l)	0.36	0.848
Nickel (mg/l)	0.033	0.084
Selenium (mg/l)	BDL	BDL
Vanadium (mg/l)	0.009	0.008
Zinc (mg/l)	0.291	0.177

Laboratory analysis results of storm water samples shows high BOD, COD, TDS & presence of heavy metals indicates contamination of storm water with untreated industrial effluent. Characteristics of the samples matches with the characteristics of the effluent reaching to the CETPs.



Intermediate storm water pumping station at Phase-I



Main storm water pumping station at Phase-III

Groundwater characteristics

To meet freshwater requirement, most of the industries have supply from HSIIDC fresh water pipeline along with the individual bore-well. Sample of bore-well located inside CETP premises was collected and the analysis results are tabulated below:

S. no.	Parameter	Value	Drinking Water-Specification IS 10500:2012 (Permissible limit)
1.	pH	8.4	6.5-8.5
2.	COD (mg/L)	BDL	-
3.	Total alkalinity (mg/L)	87	600
4.	Total hardness (mg/L)	85	600
5.	TDS (mg/L)	564	2000
6.	Fluoride (mg/L)	2.68	1.5
7.	Chloride (mg/L)	11	1000

Analysis results of groundwater indicated that all parameters were found within permissible limit (Drinking Water-Specification IS 10500:2012) except fluoride.

6.2. INSPECTION REPORT OF 10 MLD CETP, HSIIDC INDUSTRIAL AREA, BARHI, SONIPAT

Background: Joint inspection of CETP Barhi installed in HSIIDC Industrial Area, Barhi, Sonapat was carried out by the joint team of officials from CPCB and HSPCB on 18.07.2024 in compliance of Hon'ble NGT order dated 28.05.2024 in the matter of OA no. 622/2024.



Composite sampling (24 hrs monitoring at 2 hrs interval) was carried out during July 18, 2024 (10:00 AM onwards) to July 19, 2024 (up to 09:00 AM) for performance evaluation of CETP. Details are tabulated below:

1.	Name/Location of CETP (full address)	:	10 MLD CETP HSIIDC Industrial Area, Barhi, Sonipat
2.	Coordinates	:	29.103778, 77.030053

Regulatory compliance:

3.	Consent	Yes/No/Applied	Validity (Period)
	Air /Water	Yes	01/10/2024 to 31/03/2025
	Hazardous waste authorization	No	-
	NOC from Haryana Water Resources Authority	No	-

Operation detail:

4.	Operating agency	:	Haryana State Industrial and Infrastructure Development Corporation, Sonipat Sh. Tarun Kumar, SDO, 9813350001 Sh. Vikash Chaudhary, AE, 9910624455
5.	Sub-contractor details	:	M/s Enviro Infra Engineers Ltd. (EIEL) Rohini, Delhi Sh. Ankit Kumar, 9205009676 Email: ankitmiet11@gmail.com
6.	Year of commissioning	:	March, 2024
7.	CETP designed parameters	:	BOD-550 mg/l, COD-1550 mg/l, TSS-1200 mg/l, O&G-100 mg/l, Color-400 Hazen, pH: 5.5-9.0
8.	Detail of member units	:	<ul style="list-style-type: none"> • Total no. of industries-253 • No. of industries discharging trade effluent-136 • No. of industries discharging domestic wastewater-117 • The trade effluent generating units (136)

			<p>nos.) comprise 91 textile units (~66%) and other sectors units including Pharma, chemicals, food & beverages, plastic recycler, metal processing etc.</p> <ul style="list-style-type: none"> • All the member units discharging trade effluent into CETP conveyance system has primary effluent treatment plant (PETP) for primary treatment.
9.	Effluent conveyance system	:	<p>Common infrastructure consisting of underground pipeline & main pumping station (MPS) for effluent conveyance was provided for collection & conveyance of trade as well as domestic wastewater to 02 Nos. of CETPs installed in HSIIDC Industrial Area, Barhi. Around 17.5 MLD of mixed effluent is received at CETP pumping station.</p>
10.	Utilized Capacity	:	<p>As per operator: 5-6 MLD As per logbook data (May 1-July 17, 2024): 3.9 MLD</p> <p>CETP found operating at around 40% of its design capacity due to unavailability of trade effluent. Around 25-30% of received mixed effluent is transferred to existing 10 MLD CETP & the rest is being transferred to 16 MLD CETP existing in the same premises for treatment.</p>
11.	Actual treatment (Inflow during visit) (m ³ /hr x hrs.)	:	<p>Inflow during visit: 5223 KL (5.2 MLD) Outflow during visit: 5441 KL (5.4 MLD)</p>
12.	Fresh water supply source	:	<ul style="list-style-type: none"> • 02 Nos. of borewells (common for 16 MLD and 10 MLD CETPs) • No flowmeter was installed.

		<ul style="list-style-type: none"> • Logbook for groundwater abstraction was not maintained. 															
13.	Treatment technology	: Physico-chemical treatment, Secondary biological treatment with Anoxic Tank (SBR) followed by tertiary filtration system. Dosing of chemicals (coagulants & flocculants) was being carried out as advance primary-treatment for removal of suspended organics. Secondary biological treatment in form of SBR was provided for removal of dissolved organics.															
14.	Disinfection technology	: Chlorination-based disinfection system found installed but not operational as no outlet standard for TC/FC has been prescribed for CETP hence no dosing required.															
15.	Status of Online Monitoring System (OCEMS)	<ul style="list-style-type: none"> • OCEMS installed at CETP inlet & outlet for parameters pH, TSS, BOD & COD. • OCEMS reading @ 12:00 P.M. on 18/07/2024: <table border="1" data-bbox="798 1355 1316 1691"> <thead> <tr> <th>Parameters</th> <th>CETP Inlet</th> <th>CETP Outlet</th> </tr> </thead> <tbody> <tr> <td>pH</td> <td>8.5</td> <td>8.39</td> </tr> <tr> <td>TSS (mg/l)</td> <td>193</td> <td>3.8</td> </tr> <tr> <td>BOD (mg/l)</td> <td>188</td> <td>1.6</td> </tr> <tr> <td>COD (mg/l)</td> <td>445</td> <td>28.5</td> </tr> </tbody> </table>	Parameters	CETP Inlet	CETP Outlet	pH	8.5	8.39	TSS (mg/l)	193	3.8	BOD (mg/l)	188	1.6	COD (mg/l)	445	28.5
Parameters	CETP Inlet	CETP Outlet															
pH	8.5	8.39															
TSS (mg/l)	193	3.8															
BOD (mg/l)	188	1.6															
COD (mg/l)	445	28.5															

Sludge management & disposal:

16.	Details of sludge dewatering unit	04 nos. of centrifuge were provided for sludge dewatering
	Average quantity of sludge generated (Kg/day)	Avg. daily sludge generation-1260.6 Kg/day (as per logbook data from May 1 – July 17,

		2024)
	Method of sludge disposal	Till date, no sludge has been disposed off due to lack of agreement with authorized Common TSDF. The process of the execution of the agreement with the Common TSDF is under process and samples of the sludge have also been collected by Common TSDF for finalization of the rate contract based on the characteristics of the sludge.

Effluent recycling & disposal:

17.	Recycling of treated effluent	:	Negligible recycling of treated effluent observed for landscape irrigation of green belt existing in CETP premises.
	Disposal of treated effluent	:	Into Drain no. 6 which is ultimately discharged into river Yamuna after mixing with treated effluent of 16 MLD CETP, Barhi

Compliance status & Recommendations:

18.	<p>Compliance status:</p> <ol style="list-style-type: none"> 1. Analysis results of composite samples collected from CETP inlet shows pH-7.5 (against norm of 6-9), BOD-160 mg/l (against norm of 500 mg/l), COD-549 mg/l (against norm of 1400 mg/l), TSS-321 mg/l (against norm of 1500 mg/l), TDS-2132 mg/l (against norm of 2100 mg/l) FDS-1612 mg/l (against norm of 2100 mg/l) and Oil & Grease-BDL (against norm of 15 mg/l). 2. Raw effluent received at CETP inlet was not meeting the inlet standards prescribed by HSPCB for TDS-2132 mg/l (against norm of 2100 mg/l). 3. Analysis results of composite samples collected from CETP outlet shows pH-8 (against norm of 6-9), BOD-33 mg/l (against norm of 30 mg/l), COD-104 mg/l (against norm of 250 mg/l), TSS-75 mg/l (against norm of 100 mg/l) and
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	<p>TDS- 2208 mg/l (against norm of 2100 mg/l). Values of heavy metals found within the prescribed limits.</p> <p>4. Removal efficiencies of BOD, COD & TSS were 79.4%, 81.1% & 76.6%, respectively.</p> <p>5. Outlet quality shows trivial non-compliance of CETP w.r.t. BOD only.</p>
19.	<p>Major issues:</p> <ol style="list-style-type: none"> 1. Dumping of sludge in lined open area. 2. Lack of agreement with authorized sludge recycler.
20.	<p>Recommendations:</p> <ol style="list-style-type: none"> 1. CETP operating agency shall obtain Authorization under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 from HSPCB. 2. CETP shall make agreement with authorized sludge disposal facility for scientific disposal of dried sludge. 3. Designated shaded place shall be provided for storage of dried sludge. 4. CETP operating agency shall obtain NOC from Haryana water resources authority.

Table 1: Laboratory analysis results of CETP Inlet and Outlet (10 MLD CETP, Barhi)

S. no.	Parameter	CETP Inlet	Inlet standards prescribed by HSPCB	CETP Outlet	Discharge norms	Compliance status
1.	pH	7.5	6-9	8	6-9	Complying
2.	BOD (mg/L)	160	500	33	30	Non-complying
3.	COD (mg/L)	549	1400	104	250	Complying
4.	TSS (mg/L)	321	1500	75	100	Complying
5.	TDS (mg/L)	2132	2100	2208	2100	Non-Complying
6.	FDS (mg/L)	1612	2100	1688	2100	Complying
7.	NH ₃ -N (mg/L)	2	-	2	50	Complying
8.	Oil & Grease (mg/L)	BDL	15	BDL	10	Complying
9.	Chloride (mg/L)	694	-	666	1000	Complying

S. no.	Parameter	CETP Inlet	Inlet standards prescribed by HSPCB	CETP Outlet	Discharge norms	Compliance status
10.	Phosphate	0.9	-	0.4	5	Complying
11.	NO ₃ -N (mg/L)	6.8	-	6.7	10	Complying
12.	Sulphate (mg/L)	211	-	193	1000	Complying
13.	Boron (mg/L)	BDL	-	BDL	-	-
14.	Cr ⁶⁺ (mg/L)	BDL	-	BDL	0.1	Complying
15.	Antimony (mg/L)	0.084	-	0.083	-	-
16.	Arsenic (mg/L)	BDL	-	BDL	0.2	Complying
17.	Cadmium (mg/L)	BDL	-	BDL	0.05	Complying
18.	Chromium (mg/L)	0.266	-	0.03	-	-
19.	Cobalt (mg/L)	0.003	-	BDL	-	-
20.	Copper (mg/L)	0.062	-	0.119	3	Complying
21.	Iron (mg/L)	6.585	-	0.758	3	Complying
22.	Lead (mg/L)	0.065	-	BDL	0.1	Complying
23.	Manganese (mg/L)	0.88	-	0.248	2	Complying
24.	Nickel (mg/L)	0.138	-	0.028	3	Complying
25.	Selenium (mg/L)	BDL	-	BDL	0.05	Complying
26.	Vanadium (mg/L)	0.013	-	BDL	0.2	Complying
27.	Zinc (mg/L)	0.311	-	0.152	5	Complying
28.	Mercury (µg/L)	BDL	-	BDL	0.01	Complying

- Regional Officer, HSPCB, Sonipat vide no. 1305 dated 16.09.2024 has issued show cause notice for prosecution and levying of Environmental compensation to Senior Manager, HSIIDC, Barhi and M/S Enviro Infra Engineers Pvt. Ltd. or for the above said non compliance of 10 MLD CETP, Barhi, Sonipat

Photographs



ETP Inlet



Screens




Equalization Tank



Decantation in SBR Tank



<p>Aeration in SBR Tank</p>	<p>Flash Mixer</p>
	
<p>Clarifier</p>	<p>Sludge Holding Tank</p>
	
<p>Collection of sludge in trolley</p>	<p>Centrifuge</p>
	

Chlorine Contact Tank



PSF and ACF

Treated Effluent



Sludge storage area (Uncovered)



Environmental laboratory

Chemical storage area

<p align="center">OCEMS display – CETP Inlet @ 12 P.M. on 18/07/2024</p>	<p align="center">OCEMS display – CETP Outlet @ 12 P.M. on 18/07/2024</p>

6.3. INSPECTION REPORT OF 16 MLD CETP, HSIIDC INDUSTRIAL AREA, BARHI, SONIPAT

21.	Name/Location of CETP	: 16 MLD CETP HSIIDC Industrial Area, Barhi, Sonipat
22.	Coordinates	29.10102, 77.0322

Regulatory compliance:

23.	Consent	Yes/No/Applied	Validity (Period)
	Air /Water	Applied	Expired on 30/09/2023
	Hazardous waste authorization	Applied	Expired on 30/09/2023
	NOC from Haryana Water Resources Authority	No	-

Operation detail:

24.	Operating agency	: Haryana State Industrial and Infrastructure Development Corporation, Sonipat Sh. Tarun Kumar, SDO, 9813350001 Sh. Vikash Chaudhary, AE, 9910624455
25.	Sub-contractor details	: M/s Gharpure Engineering and Construction Pvt. Ltd

			Sh. Suresh Narayan Bajpai, 9313098447 suresh.bajpai@beil.co.in barhi16mldcetp@beil.co.in
26.	Year of commissioning	:	2017
27.	CETP designed parameters	:	BOD-750 mg/l, COD-1500 mg/l, TSS-600 mg/l, O&G-100 mg/l
28.	Detail of member units	:	<ul style="list-style-type: none"> • Total no. of industries-253 • No. of industries discharging trade effluent-136 • No. of industries discharging domestic wastewater-117 • The trade effluent generating units (136 nos.) comprise 91 textile units (~66%) and other sectors units including Pharma, chemicals, food & beverages, plastic recycler, metal processing etc. • All the member units discharging trade effluent into CETP conveyance system has primary effluent treatment plant (PETP) for primary treatment.
29.	Effluent conveyance system	:	Common infrastructure consisting of underground pipeline & MPS for effluent conveyance was provided for collection & conveyance of trade as well as domestic wastewater to 02 Nos. of CETPs installed in HSIIDC Industrial Area, Barhi. Around 17.5 MLD of mixed effluent is received at CETP pumping station.
30.	Utilized Capacity	:	As per operator: 12-13 MLD As per logbook data (May 1-July 18, 2024): 13.5 MLD

			CETP found operating at around 80% of its design capacity due to unavailability of trade effluent. Around 70-75% of received mixed effluent is transferred to existing 16 MLD CETP & the rest is being transferred to newly commissioned 10 MLD CETP existing in the same premises for treatment.
31.	Actual treatment (Inflow during visit) (m ³ /hr x hrs.)	:	Inflow during visit: 14.8 MLD Outflow during visit: 16.3 MLD
32.	Fresh water supply source	:	<ul style="list-style-type: none"> • 02borewell (common for 16 MLD and 10 MLD CETPs) • Flow meter was not installed at either of the Borewell. • Logbook for groundwater abstraction was not maintained.
33.	Treatment technology	:	Physico-chemical treatment, Secondary biological treatment with Anoxic Tank (SBR) followed by tertiary filtration system. Dosing of chemicals (coagulants & flocculants) was being carried out as advance primary-treatment for removal of suspended organics. Secondary biological treatment in form of SBR was provided for removal of dissolved organics. Gravity sand filter was provided but found non-functional during visit.
34.	Disinfection technology	:	Chlorination-based disinfection system found installed but not operational as no outlet standard for TC/FC has been prescribed for CETP hence no dosing required.
35.	Status of Online Monitoring System (OCEMS)	:	Installed but found out of order during visit.

36.	Upgradation plan	:	DAF was found under construction stage.
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Sludge management & disposal:

37.	Details of sludge dewatering unit	04 nos. of centrifuge were provided for sludge dewatering (02 for biological sludge and 02 for primary sludge)
	Average quantity of sludge generated (Kg/day)	Avg. daily sludge generation (as per logbook data): <ul style="list-style-type: none"> • Chemical sludge-6 m³/day (on wet basis) • Biological sludge-6m³/day (on wet basis)
	Method of sludge disposal	Agreement with M/s Gujarat Enviro Protection and Infrastructure Private Limited (GEPIL). CETP provided copy of Form-10 dated 07/05/2024 (31.21 MT).

Effluent recycling & disposal:

38.	Recycling of treated effluent	:	Negligible recycling of treated effluent observed for landscape irrigation of green belt existing in CETP premises.
	Disposal of treated effluent	:	Into Drain no. 6 which is ultimately discharged into river Yamuna after mixing with treated effluent of 10 MLD CETP, Barhi

Compliance status & Recommendations:



39.	<p>Compliance status:</p> <p>1. Analysis results of composite samples collected from CETP inlet shows pH-7.3 (against norm of 6-9), BOD-210 mg/l (against norm of 500 mg/l), COD-616 mg/l (against norm of 1400 mg/l), TSS-1852 mg/l (against norm of 1500 mg/l), TDS-1780 mg/l (against norm of 2100 mg/l) FDS-1336 mg/l (against norm of 2100 mg/l) and Oil & Grease-BDL (against norm of 15 mg/l).</p>
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	<ol style="list-style-type: none"> 2. Raw effluent received at CETP inlet was not meeting the inlet standards prescribed by HSPCB for TSS-1852 mg/l (against norm of 1500 mg/l). 3. Analysis results of composite samples collected from CETP outlet shows pH-7.8 (against norm of 6-9), BOD-94 mg/l (against norm of 30 mg/l), COD-213 mg/l (against norm of 250 mg/l), TSS-88 mg/l (against norm of 100 mg/l) and FDS-1432 mg/l (against norm of 2100 mg/l). Values of heavy metals found within the prescribed limits. 4. Removal efficiencies of BOD, COD & TSS were 55.2%, 65.4% & 95.2%, respectively. 5. Outlet quality shows non-compliance of CETP w.r.t. BOD only.
40.	<p>Major issues:</p> <ol style="list-style-type: none"> 1. Dumping of sludge in lined open area. 2. Un-regulated dosing of coagulant & flocculant. 3. Non-functional agitation system in Flash Mixer & Clariflocculator leading to ineffective physico-chemical treatment. 4. Non-functional gravity sand filtration system for polishing of treated effluent.
41.	<p>Recommendations:</p> <ol style="list-style-type: none"> 1. CETP operating agency shall obtain Consent under Air/Water Acts and authorization under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 from HSPCB. 2. Designated shaded place shall be provided for storage of dried sludge. 3. CETP operating agency shall obtain NOC from Haryana Water Resources Authority. 4. CETP operating agency shall ensure resumption of operation of non-functional units like Flash Mixer, Clariflocculator & Gravity filter. 5. CETPoperating agency shall ensure upgradation of CETP to ensure compliance with respect to discharge norms. 6. HSIIDC and HSPCB along with CETP member units shall ensure compliance of CETP with respect to inlet norms via comprehensive monitoring and surveillance of member units PETP outlet. 7. HSIIDC may also provide the action plan for revamping and upgradation of CETP.

Table 1: Laboratory analysis results of CETP Inlet and Outlet (16 MLD CETP, Barhi)

S. no.	Parameter	CETP Inlet	Inlet standards prescribed by HSPCB	CETP Outlet	Discharge norms	Compliance status
29.	pH	7.3	6-9	7.8	6-9	Complying
30.	BOD (mg/L)	210	500	94	30	Non-complying
31.	COD (mg/L)	616	1400	213	250	Complying
32.	TSS (mg/L)	1852	1500	88	100	Complying
33.	TDS (mg/L)	1780	2100	1948	-	Complying
34.	FDS (mg/L)	1336	2100	1432	2100	Complying
35.	NH ₃ -N (mg/L)	10	-	10	50	Complying
36.	Oil & Grease (mg/L)	BDL	15	BDL	10	Complying
37.	Chloride (mg/L)	476	-	542	1000	Complying
38.	Phosphate	0.8	-	0.3	5	Complying
39.	NO ₃ -N (mg/L)	7.9	-	8.3	10	Complying
40.	Sulphate (mg/L)	223	-	214	1000	Complying
41.	Boron (mg/L)	BDL	-	BDL	-	Complying
42.	Cr ⁶⁺ (mg/L)	BDL	-	BDL	0.1	Complying
43.	Antimony (mg/L)	0.131	-	0.064	-	Complying
44.	Arsenic (mg/L)	BDL	-	BDL	0.2	Complying
45.	Cadmium (mg/L)	BDL	-	BDL	0.05	Complying
46.	Chromium (mg/L)	0.466	-	0.141	-	Complying
47.	Cobalt (mg/L)	0.002	-	BDL	-	Complying
48.	Copper (mg/L)	0.048	-	0.018	3	Complying
49.	Iron (mg/L)	6.455	-	2.763	3	Complying
50.	Lead (mg/L)	0.192	-	0.012	0.1	Complying
51.	Manganese (mg/L)	0.956	-	0.742	2	Complying
52.	Nickel (mg/L)	0.07	-	0.047	3	Complying
53.	Selenium (mg/L)	BDL	-	BDL	0.05	Complying
54.	Vanadium (mg/L)	0.016	-	0.009	0.2	Complying
55.	Zinc (mg/L)	0.21	-	0.132	5	Complying
56.	Mercury (µg/L)	BDL	-	BDL	0.01	Complying

- The above said CETP is presently under up-gradation and DAF (Diffused Air Flootation) is under construction. The up-gradation work is proposed to be completed by 30.09.2024.
- HSPCB has already filed Prosecution case in special environment court kurukshetra on 02.07.2024 against the Officers of HSIIDC Barhi and Directors of operating company.
- Environmental Compensation of Rs. 2,52,00,000/- (Two Crores Fifty Two Lakhs) has already been assessed and recommended to the competent authority for levying f EC by Regional Officer, HSPCB, Sonipat.
- Regional Officer, HSPCB, Sonipat vide no. 1309 dated 16.09.2024 has also issued show cause notice for prosecution and levying of Environmental compensation to Senior Manager, HSIIDC, Barhi and M/S Enviro Infra Engineers Pvt. Ltd. or for the above mentioned non compliance of 16 MLD CETP, Barhi, Sonipat

Photographs	
	
Inlet sump	Flow meter installed at CETP Inlet



Secondary Clarifier



Chlorine Contact Tank



Collection of sludge in trolley



Sludge dewatering unit



Flow meter installed at CETP Outlet



**OCEMS installed at CETP Inlet
(Defunct)**

7. POLLUTION SOURCE MAPPING OF DRAIN NO. 6 FROM SAMALKHA (PANIPAT) TO WAZIRABAD (DELHI)

Background and visit by Joint Committee :-

The drain originates from Samalakha, district Panipat in Haryana, travels through Sonipat district in Haryana, enters Delhi at Singhu Border and merges with Supplementary drain-1 which confluences into Sahibi river (Najafgarh drain) which ultimately confluences into river Yamuna at Wazirabad barrage. The drain no. 6 has an approximate length of 67 Km from Samalkha to Makhmalpur village near Budhpur, Delhi where it meets supplementary drain 1 and further travels to approx. 14 km to meet Yamuna river through Supplementary drains and Sahibi river at downstream of Wazirabad barrage, Delhi. The Drain no. 6 is a mixed drain carrying sewage and industrial wastewater.

Mapping was carried out during 22.07.2024 to 24.07.2024. The samples were collected from 25 locations [from Origin at Samalakha till confluence into River Yamuna]. The sampling locations in the entire length of the drain no. 6 are divided into 05 stretches based on geographical conditions. The Stretch 1 to 3 are in Haryana and Stretch 4 & 5 are in Delhi. The details of the stretches are as follows: -

Stretch 1: Origin of Drain no. 6 from Samalkha to downstream of Ganaur STP (07 MLD), Sonipat

Stretch 2: Drain no. 6 at upstream of CETP Barhi outlet near RajuluGarhi village to Drain no. 6 at downstream of 30 MLD Ratadhana STP outlet

Stretch 3: Drain no. 6 upstream of OP Jindal University on Sonipat-Narela Road (Jagdishpur village) to Drain no. 6 near Harshwardhan Colony, Kundli

Stretch 4: Drain No. 6 near Singhu Border of Delhi to meeting of drain no. 6 with supplementary drain near Makhmalpur village, Alipur, Delhi on Budhpur-Makhmalpur Road

Stretch 5: Meeting point of drain no. 6 with Supplementary drain 1 near BakhtavarpurRadhaKrishanMandir on NH-1 to Sahibi river a/c of Supplementary drains (including drain no. 6) b/c river Yamuna (near signature bridge)

The details of sampling points in different stretches is provided below in Table 1

Table 1: Stretch-wise sampling locations of drain no. 6 from Samalakhya (Panipat) to Wazirabad (Delhi)

S. No.	Stretch	Sampling Locations	Waterbody	Latitude	Longitude	Location Code
1.	Stretch 1 (Haryana) Approx. 13 km	Drain no. 6 near railway flyover of Chulkana Road, Samalkha	Drain no. 6	29.233289	77.004224	D1
2.		Drain no. 6 near Downstream Haryana organics, Chulkana Road	Drain no. 6	29.215494	76.997186	D2
3.		Drain no. 6 near Village BhouraRasulpur	Drain no. 6	29.178515	76.986630	D3
4.		Drain no. 6 near Village Gumar	Drain no. 6	29.131608	76.997361	D4
5.		Drain no. 6 downstream to Ganaur STP (07 MLD)	Drain no. 6	29.117825	77.002935	D5
6.	Stretch 2 (Haryana) Approx. 22 km	Drain no. 6 at Upstream of CETP Barhi outlet near Rajulu village	Drain no. 6	29.106427	76.996210	D6
7.		Barhi CETP outlet before discharge in drain no. 6 near Rajulu village	Drain no. 6 and CETP Barhi(16 MLD & 10 MLD) outlet	29.100534	76.994908	D7
8.		Drain no. 6 downstream of CETP Barhi near Ralu village	Drain no. 6	29.096278	76.996746	D8
9.		Drain no. 6 near Jawahari village (entry to Sonipat city)	Drain no. 6	29.027203	77.016483	D9
10.		Drain no. 6 near Beej (seed) market bridge	Drain no. 6	28.999209	77.022873	D10
11.		Drain no. 6 at upstream of 30 MLD Ratadhana STP outlet	Drain no. 6	28.95986	77.04416	D11
12.		Drain no. 6 near Ratadhana village on Sonipat-Narela Road, downstream of Ratdhana STP outlet	Drain no. 6	28.953864	77.042414	D12

13.		Storm water drain (carrying sewage of 25 MLD STP, Kakroi road, sonipat)	Storm water drain	28.937885	77.044384	D13
14.		Drain no. 6 post siphon of drain 8 at AkbarpurBarota, Sonapat	Drain no. 6	28.911003	77.06605	D14
15.	Stretch 3 (Haryana) Approx. 13 km	Drain no. 6 at exit point from drain 8 at PiyauManiyarib/f c/f of pipeline from CETP Kundli	Drain no. 6	28.883770	77.108489	D15
16.		Drain no. 6 at meeting point of CETP Kundli pipeline in Drain no. 6 at PiyauManiyari, Kundli	Drain no. 6& CETP Kundli outlet	28.883482	77.108649	D16
17.		Drain No.6 at Harshwardhan colony/Paper Mill colony d/s 500 m to CETP Kundli discharge at PiyauManiyari	Drain6	28.880090	77.10909	D17
18.		Drain no. 6 near Singhu Border entry point in Delhi	Drain no. 6	28.851269	77.125380	D18
19.	Stretch 4 (Delhi) Approx. 17 km	Drain No. 6 at NH-1 at Alipur flyover before meeting supplementry 1 drain at PallaBakhtavarpur Road	Drain no. 6	28.802507	77.142697	D19
20.		Supplementary drain 1 (near Radha Krishna hanuman Mandir) at Culvert b/c of drain no. 6	Supplementary drain 1	28.782730	77.141685	D20
21.		Drain no. 6 just before b/c with Supplementary drain at Budhpur-Makhmalpur road, Delhi	Drain no. 6	28.78278	77.144267	D21
22.	Stretch 5 (Delhi) Approx. 14 km	Supplementary 2 drain (from Mungeshpur drain) from HaiderpurBadli before joining supplement 1 drain near	Supplementary drain 2 (Mungeshpur drain)	28.735599	77.155228	D22

		MukarbaChowk				
23.		Sahibi river b/c of supplement 1 drain(near Delhi Transco office)	Sahibi river	28.709164	77.225598	D23
24.		Supplementary drain 1 b/c Sahibi river near Nehru Nagar, Delhi	Supplementary drain 1	28.711262	77.227345	D24
25.		Sahibi river a/c of supplement drains and drain no. 6 b/c river Yamuna (near signature bridge)	Sahibi river (Najafgarh drain)	28.708276	77.230258	D25

The sampling locations are depicted on map in **Figure-4**

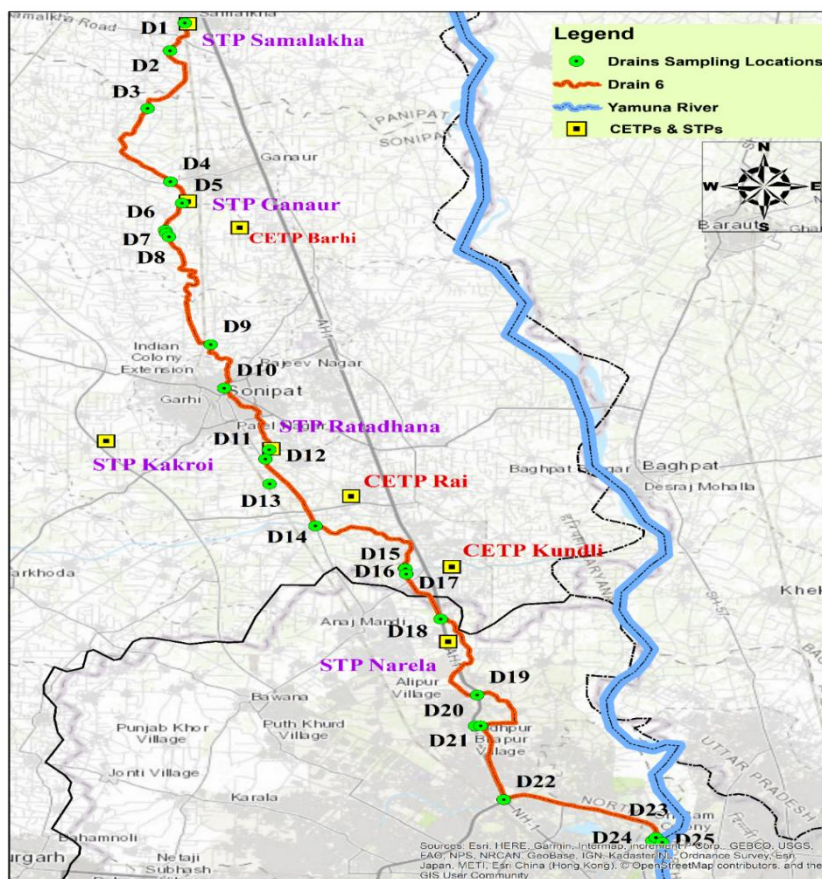


Figure 4: Location map of sampling of Drain 06 and adjoining drains

Stretch 1: Origin of Drain no. 6 from Samalkha town to downstream of Ganaur STP (07 MLD), Sonipat

Stretch 1 of drain no. 6 was monitored from its origin at Samalkha town (Panipat) up to the downstream point to Ganaur STP (07 MLD), Sonipat. During monitoring of this stretch which is approximately 13Km in length (D1 to D5), samples were collected from 5 locations i.e., from Railway flyover of chulkana road till downstream of 7 MLD Ganaur STP. Lab results of stretch 1 are tabulated below:-

Location code	Colour	pH	COD	BOD	TSS	TDS	Cl-	NO ₂ -N	NO ₃ N	NH ₃ N	SO ₄	TKN	TC	FC	Flow (MLD)
D1	130	7	411	106	125	1264	141	0.03	BDL	30	203	35	24*10 ⁸	14*10 ⁷	0.51
D2	533	7.1	750	224	306	1460	225	0.13	BDL	33	70	46	-	-	-
D3	95	7.4	203	81	128	1224	238	0.03	BDL	39	112	45	-	-	-
D4	104	7.6	193	66	111	1264	190	0.03	BDL	30	68	35	11*10 ⁶	12*10 ⁵	39.5
D5	40	7.6	120	33	32	1104	228	0.3	0.7	21	134	26	17*10 ⁴	11*10 ⁴	53.76

All values in mg/l except for Colour in CU, ph, TC/FC in MPN/100ml

Based on analysis results and location-wise observations made during the monitoring of drain no. 6 in stretch 1 are as follows :-

1. Drain no. 6 near railway flyover of Chulkana Road, Samalkha, Panipat (0 km) – D1

- Flow of the drain was measured as 0.51 MLD and light grey colored of water in the drain was observed. Also, Samalkha Sewage Treatment Plant(STP) (05 MLD)was located near the sampling point, however, no discharge of STP outlet was observed in the drain at the time of visit.
- Three nos. of industries namely, M/s VSP Enterprises Pvt. Ltd. Unit-II, Gandhi Adarsh college, village - Kiwana Tehsil - Samalkha, Distt - Panipat, Haryana (India), M/s Nestle India Ltd. Patti KalyanaKiwana, Road, Samalkha, Haryana 132101 and M/s Haryana Organics (A unit of Globus Spirits Limited), Chulkana - Samalkha Road, Samalkha, Haryana 132101 were located on the embankment of the drain, in the downstream of this location.
- Outlet from M/s Nestle India Ltd. was observed in the drain however, no discharge in the drain was observed at the time of visit.
- As per Lab analysis, values of BOD i.e 106 mg/l and COD i.e 411 mg/l suggests domestic waste water characteristic of drain which is due to sewage generation from nearby Samalkha township area.



Figure 5: Drain no. 6 near Samalkha, Panipat

2. Drain no. 6 near Downstream of M/s Haryana Organics, Chulkana Road (D2)

- Downstream location of M/s Haryana Organics (A unit of Globus Spirits Limited), Chulkana - Samalkha Road, Samalkha, Haryana 132101), was filled with silt and sludge with meagre flow.
- Also, septic condition was observed due to the stagnant condition of waste water in the drain.
- From Lab Analysis data, it has been observed that there was significant amount of increase in values of BOD i.e 224 mg/l and COD i.e 750 mg/l at the downstream of Haryana organics which indicates industrial effluent impact on drain No. 6.



Figure 6. Drain no. 6 at downstream Haryana organics, Samalkha

3. Drain no. 6 near Village BhouraRasulpur (D3)

- Village BhouraRasulpur is located at the upstream of this sampling location.
- Black coloured wastewater was observed at this sampling location.
- Solid waste and floatable materials were found dumped in the drain.
- Agricultural field were observed on both side of the drain at village BhouraRasulpur.
- Lab results suggests domestic waste water characteristic of drain.

4. Drain no. 6 near Village Gumar (D4)

- Villages namely Kheri Gujjar, Khijjarpur and Ahir, Gumar were located at the upstream of this location.
- At this location, the color of the drain was dark black and solid waste and floatable materials were found dumped in the drain. Agricultural field were observed on both side of the drain.
- Screens may be installed by the village authority before the drains originating from the nearby villages.
- Lab results suggests domestic waste water characteristic of drain.

5. Drain no. 6 downstream to Ganaur STP 07 MLD (D5)

- At this location, the flow of the drain no. 6 was measured as 53.76 MLD.
- The villages Gumar and Ganaur were located at the upstream of this location. The sewage of Gumar village is discharged directly into drain no. 6.
- Treated sewage from Ganaur STP is being discharged in to the drain no. 6, therefore, drain samples were collected from the downstream location of the Ganaur STP (07 MLD), Sonipat (coordinate of sampling location at downstream to Ganaur STP: 29.117825, 77.002935).
- Silt deposition was also observed in the Drain no. 6 at this location.
- From lab analysis data, it is observed that there was decrease in values of BOD i.e 33 mg/l and COD i.e 120 mg/l which is due to dilution caused by release of treated effluent from Ganaur STP.

Conclusion w.r.t. Stretch 1: In this stretch of about 6 Km, BOD ranged from 33 mg/l to 224 mg/l with maximum BOD being observed in Drain no. 6 near M/s Haryana Organics on Chulkana Road, probably due to discharge of untreated/partially treated effluents by nearby industrial units directly into the drain. In this stretch, high value of Iron – 16.97 mg/l found at

D2 location (d/s of Haryana organics) and high values of Zinc at D1 & D2 respectively at 1.859 mg/l and 1.587 mg/l, no other significant higher value found for other metals.

Stretch 2: Drain no. 6 at upstream of CETP Barhi outlet near RajuluGarhi village to Drain no. 6 at downstream of 30 MLD Ratadhana STP outlet

In this stretch, Drain no. 6 receives treated effluent from 16 and 10 MLD CETPs located at Barhi Industrial Area and treated waste water from 30 MLD STP, Rathdhana Road, Sonipat.

It was observed that in this entire stretch of about 22 Kms, a total 28 point sources of untreated wastewater discharge exists in Sonipat district. Out of which 17 are local municipal drains coming from Sonipattown (out of which only 01 drain was found tapped); and 11 are drains from 08 villages namely, BhouraRasulpur, Kheri Gujjar (02 Locations), AhirMazra, Gumar (02 Locations), Agwanpur, Bhogipur (2 Locations), Tharya, Jawhri. It was also observed that a distillery unit namely M/s Frost Falcon Distilleries is located at the upstream location (approximately 2.5 km) of the Drain no. 6 at Jawahari village (entry to Sonipattown). During monitoring of this stretch (D6-D12), samples were collected from 7 locations i.e from upstream of outlet of CETP Barhi near RajuluGarhi village till downstream of Ratdhana STP at Ratdhanavillage. Lab analysis results of this stretch are tabulated below:-

Location code	Colour	pH	CO D	BO D	TSS	TDS	Cl ⁻	NO ₂ ⁻ N	NO ₃ N	NH ₃ N	SO ₄	TKN	TC	FC	Flow (MLD)
D6	46	7.5	128	27	36	1048	180	0.02	BDL	25	95	39	-	-	-
D7	87	7.6	195	36	54	2092	561	0.03	7.08	14	256	17	-	-	-
D8	59	7.6	171	19	154	1472	390	0.02	3.82	16	307	26	-	-	-
D9	62	7.2	353	183	177	1560	304	0.02	1.38	21	265	28	28*10 ⁷	17*10 ⁶	69.12
D10	545	7.1	331	111	85	1472	418	0.17	0.79	21	121	25	35*10 ⁹	28*10 ⁹	76.97
D11	294	7.1	691	186	81	1432	418	0.1	0.91	29	176	32	22*10 ⁸	24*10 ⁷	-
D12	385	7	240	69	138	1380	371	0.12	0.8	28	135	30	14*10 ⁶	17*10 ⁵	-

All values in mg/l except for Colour in CU, pH, TC/FC in MPN/100ml

Based on analysis results and the location-wise observations were made during the monitoring of drain no. 6 in stretch 2 are as follows:

1. Drain no. 6 at Upstream of CETP Barhi outlet near RajuluGarhi village (D6)

- Agwanpur, Sonipat village was located at the upstream of this location.
- This sampling location signifies the control location w.r.t discharge of CETPs located at Barhi Industrial area, Sonipat.

- The observed value BOD at this location was 27 mg/l.

2. Barhi CETP outlet before discharge in drain no. 6 near Rajulu village (D7)

- This sampling location is the outfall of CETPs at Barhi HSIIDC (16 and 10 MLD).
- Samples were directly collected from the outfall pipe on drain no. 6 near RajuluGarhi village, with BOD value – 36 mg/l.

3. Drain no. 6 downstream of CETP Barhi near RajuluGarhi village (D8)

- Village RajuluGarhi was located at the downstream of discharge point of CETP Barhi.
- At upstream of this location, flow of Drain no. 6 is supplemented by treated effluent from 16 & 10 MLD CETP.
- The BOD value of drain at this location was 19 mg/l which may be because of high volume flow from CETP Barhi outfall causing dilution effect.
- Thereafter, Drain no. 6 then flows to Sonipat town downstream of this point.

4. Drain no. 6 near Jawahari village (entry to Sonipat city) (D9)

- Drain no. 6 enter in to city Sonipat from Jahari village. The flow was measured as 69.12 MLD at this location.
- The colour of the drain was black. Deposition of silt was observed in the drain.
- Solid waste and floatable materials were found dumped in the drain at this location.
- From lab analysis data, it has been observed that there was significant amount of increase in values of BOD i.e 183 mg/l and COD i.e 353 mg/l at the entry point of Sonipat city suggests domestic waste water characteristics which might be due to discharging of sewage from nearby areas of Sonipat town.

5. Drain no. 6 near Beej (seed) market bridge (D10)

- Huge quantity of solid waste and floatable materials were found dumped in the Drain no. 6 on Beej market bridge, Sonipat. The colour of the drain effluent was black.
- Many other small drains carrying sewage from the different areas/colony were directly discharging in to the drain no. 6 at upstream of this location.
- The drain was covered in concreted structure.
- The flow of the drain no. 6 was measured as 76.97 MLD.
- There are 28 no. of point sources of untreated discharge exists in the Drain no. 6 from the Sonipat town.
- Highest value of coliform bacteria in this stretch was found at this location indicating high volume of domestic sewage in the drain6.

6. Drain no. 6 at upstream of 30 MLD Ratadhana STP outlet (D11)

- Ratadhana STP is located at downstream of the Sonipat town area on Sonipat-Narela Road.
- Many pumps were seen pumping drain water to nearby agriculture fields from Drain no. 6.
- At Upstream of sampling location, drain is carrying mixed type of effluent from Sonipat town and industries located upstream of town. Drain was under-construction (covering from top) from Sonipat town upto this point.
- Stagnancy and lean flow with high quantity of sludge observed at the location with black coloured drain water with oily layer on surface of drain.
- High values of BOD, COD, TSS and TKN observed at this.

7. Drain no. 6 near Ratadhana village on Sonipat-Narela Road, downstream of Ratdhana STP outlet (D12)

- This location is downstream of the Ratadhana 30 MLD STP and Sonipat town.
- This area is thinly populated and drain no. 6 is covered beyond this point upto near OP Jindal University.
- The value of BOD at this location was 69 mg/l which is lower than at u/s of Ratadhana STP where BOD was observed at 186 mg/l.
- Discharge from 30 MLD STP Ratadhana at upstream of this point causes dilution of the drain water causing observed lower value of BOD and faecal coliform compared with upstream of Ratadhana STP.

Conclusion w.r.t. Stretch 2: The BOD in this stretch ranged from 19 mg/l to 186 mg/l with maximum BOD being observed in Drain no. 6 at upstream of 30 MLD Ratadhana STP outlet, probably due to discharge of untreated domestic effluents and solid waste by several wards of Municipal Corporation Sonipat directly into the drain. BOD value at culvert downstream of Ratadhana STP village (D12) has decreased to (69mg/l) as compared to upstream of STP point (186 mg/l) because of dilution from discharge of treated sewage from the 30 MLD STP Ratadhana.

In this stretch, high value of Iron -5.974 mg/l, observed at D9 location (near Jawahari village), no other significant higher values of metals observed.

Stretch 3: Drain no. 6at upstream of OP Jindal University on Sonipat-Narela Road to Drain no. 6 near Harshwardhan Colony, Kundli

In this stretch, Drain no. 6 receives discharge of treated waste water from 25 MLD STP, Kakroi Road, Sonipat through a storm water drain. It also receives discharge of treated effluent from 10 MLD CETP, Rai, Sonipat and 10 MLD CETP, located in Kundli at Sonipat city. Another discharge point from of sewage/storm water pumped from Kundli industrial area also mix with drain no. 6 at PiyauManiyari after its flows towards Delhi separating from parallel line with drain 8. Effluent from nearby residential areas in Sonipat and Kundli also have discharge in this stretch.

During monitoring of this stretch which is approximately 13 Km in length, samples were collected from 5 locations i.e from Storm water drain at Kakroi road Sonipat till Harshwardhan colony/Paper Mill colony d/s 500 m to CETP Kundli discharge at PiyauManiyari . Lab analysis results of this stretch are tabulated below-:

Location Code	Colour	pH	COD	BOD	TSS	TDS	Cl-	NO ₂ ⁻ N	NO ₃ N	NH ₃ N	SO ₄	TC	FC	TKN
D13	29	7.6	39	3	31	1024	266	0.01	BDL	10	258	84*10 ⁵	21*10 ⁵	13
D14	38	7.1	218	84	101	752	228	0.02	BDL	27	164	35*10 ⁹	46*10 ⁸	28
D15	115	7.3	197	45	88	984	285	0.02	0.5	31	202	-	-	32
D16	71	7.1	217	72	124	1840	418	BDL	BDL	26	434	-	-	28
D17	142	7.3	222	105	114	1304	323	0.03	BDL	34	238	-	-	36

All values in mg/l except for Colour in CU, ph, TC/FC in MPN/100ml

Following major observations were made during the monitoring of Drain no. 6 in stretch 3:

1.Storm water drain (carrying treated sewage of 25 MLD STP, Kakroi road, Sonipat) (D13)

- A storm water drain carrying discharge of treated effluent from Kakroi STP (approx. 11 km from sampling point) and flow from the drain was used for irrigation purposes in nearby agricultural fields, meets drain no. 6 at approx. 300 meter downstream of sampling point near Jagdishpur village.
- Significant amount of flow was observed near culvert and backflow from Drain no. 6 to this storm water drain at the meeting point.
- Backflow of drain no. 6 observed in storm water drain may be due to higher flow in drain no. 6.

- As informed by the villagers, the water from storm water drain is used for irrigation in nearby areas. Largely flows through farm lands from Kakroi STP to meeting point with drain no. 6 near Jagdishpur village.

2. Drain no. 6 post siphon of drain 8 at AkbarpurBarota, Sonipat (D14)

- At AkbarpurBarota village, drain no. 6 crosses Drain no. 8 through a siphon, has considerable amount of flow.
- Thereafter, Drain no. 6 was lined and flows parallel along Drain no. 8 till PiyauManiyari, Kundli.
- At upstream of 500 meter from this sampling location, effluent from CETP Rai, Sonipat was discharging into Drain No. 6 and drain was covered upto the Western Peripheral Road.
- The analysis results of sample from this sampling point shows a BOD – 84 mg/l which is higher than the value at d/s of Ratadhana STP (69 mg/l), which may be because of discharge of treated effluent from CETP Rai, upstream of this sampling point.
- Drain no. 6 starts flowing parallel to drain 8 from this point uptoKundli. Storm water and other waste water from AkbarpurBarota was received in drain no. 6. AkbarpurBarota is an Industrial area.

3. Drain no. 6 at exit point from drain 8 at PiyauManiyari b/c of CETP Kundlioutlet (D15)

- Drain no. 6 diverts its parallel path from Drain no. 8 and channelized towards Kundli - Narela from this point downwards. Drain No. 8 flows towards Palla and meets Yamuna river.
- It carries Industrial effluent from Nathupur industrial area and domestic sewage from nearby areas.
- At downstream of sampling location, CETP Kundli was discharging effluent into it through a pipeline. Also, sewage from Kundli industrial area is pumped to this point of Drain no. 6.
- Drain no. 6 changes direction towards Singhu border from this point and meets CETP Kundli outlet at downstream of sampling location.

4. Drain no. 6 at meeting point of CETP Kundli pipeline in Drain no. 6 at PiyauManiyari, Kundli (D16)

- This point is the diversion point of drain no. 6 towards Kundli after flowing parallel to drain 08 downstream of Barota.
- Samples were collected at PiyauManiyari just after CETP Kundli outlet and domestic sewage discharge from Kundli area into Drain No. 6.
- Two sewer line from CETP Kundli and one domestic sewer line from Kundli area running parallel along drain no. 8 discharging into sampling location.
- Discharge from CETP Kundli reaches drain no. 6 and solid waste and sludge observed in drain no. 6 downstream of this point.

5. Drain No.6 at Harshwardhan colony/Paper Mill colony d/s 500 m to CETP Kundli discharge at PiyauManiyari (D17)

- This sampling point receives discharge from drain no. 6 and is supplemented by discharge from Kundli CETP and sewage pumping station in Kundli industrial area.
- Drain No. 6 is receiving sewage from nearby slum areas and Cattle farming activities.
- Downstream of discharge from CETP Kundli and sewage pumped from Kundli Industrial area. Highest BOD -105 mg/l in stretch 3.

Conclusion w.r.t. Stretch 3: The analysis results of samples from drain no. 6 in this stretch shows BOD values in range of 45 -105 mg/l, with highest value (105 mg/l) at Harshwardhan colony downstream of discharge point of Kundli CETP at PiyauManiyari. At the meeting point of CETP Kundli discharge and sewage pumped from Kundli industrial area the BOD value was 72 mg/l.

In this stretch, higher values of Iron-4.06 mg/l, Cu-0.435 mg/l, Nickel – 0.756 mg/l and Chromium – 2.068 was found at PiyauManiyari D16 location i.e. drain no. 6 at discharge point of CETP Kundli and sewage from Kundli industrial area. At D17 location i.e. at Harshwardhan Colony which is just 500 downstream of D16 at PiyauManiyari, higher values of Cu-0.22 mg/l, and Iron – 4.324 mg/l observed indicating industrial effluent discharge from CETP Kundli and nearby industrial area at PiyauManiyari, Kundli.

Stretch 4: Drain No. 6 near Singhu Border of Delhi and Haryana at NH-1 to drain no. 6 confluence with supplementary drain1 near Makhmalpur village on Palla-Bakhtavarpur Road)

In this stretch of Drain no. 6 enters Delhi at Singhu border carrying waste water both Industrial and domestic from Panipat and Sonipat district of Haryana flowing through industrial clusters in Haryana in Kundli and Rye. This stretch of drain no. 6 starting from Singhu border ends near Makhmalpur village on PallaBakhtavarpur Road, Bhiarogarh near Budhpur, Delhi where drain no. 6 meets supplementary drain 1. During monitoring of this stretch which is approximately 17Km in length, samples were collected from 4 locations i.e from Singhu Border to near Makhmalpur village on PallaBakhtavarpur Road. The drain no. 6 receives discharge from 10 MGD Narela STP, Delhi in this stretch which may be one of the cause of drop in BOD value of drain no. 6 to 19 mg/l in comparison to upstream location value of 60 mg/l. The analysis results of this stretch are tabulated below:-

S.No.	Colour	pH	COD	BOD	TSS	TDS	Cl ⁻	NO ₂ N	NO ₃ N	NH ₃ N	SO ₄	TC	FC	TKN
D18	107	7.4	258	62	345	1104	418	0.02	0.91	34	356	-	-	37
D19	23	7.5	136	60	112	1616	714	BDL	0.89	29	148	22*10 ⁴	27*10 ³	30
D20	123	7.2	225	67	142	3776	932	0.03	BDL	22	876	28*10 ⁶	17*10 ⁵	26
D21	60	7.6	119	19	106	1256	418	BDL	0.64	25	410	92*10 ³	92*10 ³	28

All values in mg/l except for Colour in CU, ph, TC/FC in MPN/100ml

Following major observations were made during the monitoring of Drain no. 6 in stretch 4:-

1. Drain no. 6 near Singhu Border entry point in Delhi (D18)

- Samples were collected from culvert at NH-1 near Singhu border just after entering Delhi, downstream of Rai and Kundli industrial area in Sonipat.
- This point was located at approx. 4 km downstream of PiyauManiyari in Kundli where drain no. 6 separates from drain 8.
- Drain no. 6 receives discharge from CETP Kundli& CETP Rai upstream of this point. High colour value observed.
- A channel meets drain no. 6 at downstream of Harshwardhan colony near Kundli border, coming from Delhi (western side), team could not reach the meeting point of the channel with drain no. 6 due to slush because of rain.

2. Drain No. 6 at NH-1 at Alipur flyover before meeting supplementary 1 drain at PallaBakhtavarpur Road (D19)

- At upstream of sampling location (7.16 km downstream of Singhu Border at Alipur flyover before meeting Supplementary 1 drain at PallaBakhtavarpur Road), Drain No. 6 carries industrial effluent and domestic sewage from nearby areas.
- At downstream drain No. 6 is merging with Supplementary drain 1 at near Budhpur village, Delhi, Bankoli industrial area is located downstream of this point on drain no. 6.
- This location is at downstream of Narela STP which may result in dilution of drain no. 6.

3. Supplementary drain 1 (near Radha Krishna Hanuman Mandir) at Culvert b/c of Drain no. 6. (D20)

- Drain no. 6 meets supplementary drain at 400 meter downstream of this point and flows upto Wazirabad to meet Sahibi river (Najafgarh drain).
- Industrial area of Budhpur, Delhi is located near the supplementary drain upstream of the sampling point
- Highest value of sulphate found in Supplementary drain 1 at this location before confluence of drain no. 6.

4. Drain no. 6 just before b/c with Supplementary drain at Budhpur-Makhmalpur road, Delhi (D21)

- Samples were collected from drain no. 6 at Budhpur-Makhmalpur road, Delhi near Radha Krishna Hanuman Mandir just before its confluence with supplementary drain.
- Makhmalpur village is located upstream of the sampling point and extended channel opposite side of culvert on drain no. 6 was found without flow with rainwater deposition at Makhmalpur village.
- Huge amount of biomedical waste dumping was observed along the banks of drain.



Figure7: biomedical waste dumping on the embankment of Drain no. 6

- Drain no. 6 has a BOD of 19 mg/l near Makhmalpur village just before confluence with supplementary drain 1. Drop in BOD value at this location compared with at Alipur (D19) may be because of mixing of treated sewage from Narela STP and comparative thin population in the catchment of drain no. 6 upstream of this location causing natural dissociation of organic pollutants.
- The value of coliform bacteria was also found lower at this location of drain no. 6 at TC & FC 92×10^3 MPN/100 ml, which indicates dilution of drain effluent compared with upstream location and higher ratio of domestic waste water.

Conclusion w.r.t. Stretch 4:

Drain no. 6 has a BOD of 19 mg/l near Makhmalpur village just before confluence with supplementary drain 1. Drop in BOD value at this location compared with at Alipur (D19) may be because of mixing of treated sewage from Narela STP and comparative thin population in the catchment of drain no. 6 upstream of this location causing natural dissociation of organic pollutants. The value of coliform bacteria was also found lower at this location of drain no. 6 at TC & FC 92×10^3 MPN/100 ml, which indicates dilution of drain effluent compared with upstream location and higher ratio of domestic waste water.

In this stretch, very high values of Iron-19.03 mg/l, Manganese- 1.766mg/l, Nickel – 0.488 mg/l and Chromium – 2.247 mg/l was observed D18 i.e. Singhu border entry point, which is higher than value observed at Harshwardhan colony at Kundli.

Stretch 5: Meeting point of drain no. 6 with Supplementary drain 1 near BakhtavarpurRadhaKrishanMandir on NH-1 to Sahibi river a/c of Supplementary drains (including drain no. 6) b/c river Yamuna (near signature bridge)

This stretch signifies the stretch of supplementary drains from meeting point of drain no. 6 near Makhmalpur into Supplementary 1 drain, and meeting of supplementary drain 2 near Mukarbachowk with supplementary drain 1 which further flows to river Yamuna through Sahibi river (Najafgarh drain) near Wazirabad. Sahibi river (Najafgarh drain) and supplementary drain 2, also carries waste water from Western and Northern areas of Delhi through local drains including Mangeshpur drain as well as from Sahibi rivers catchment area in Haryana state. This monitored stretch of drain is approximately 14 km and samples from 04 points are collected from this stretch from different water bodies including Sahibi river.

The details of samples are as follows -

Location Code	Colour	pH	COD	BOD	TSS	TDS	Cl-	NO ₂ N	NO ₃ N	NH ₃ N	SO ₄	TC	FC	TKN
D22	5	7.2	205	104	359	820	323	BDL	BDL	11	70	79*10 ⁵	79*10 ⁵	22
D23	48	7.3	186	14	87	1088	371	0.01	BDL	28	307	31*10 ⁵	21*10 ⁵	36
D24	45	7.4	167	66	363	1524	325	BDL	BDL	21	207	35*10 ⁴	35*10 ⁴	26
D25	62	7.3	159	50	257	1356	285	0.02	BDL	23	183	17*10 ⁵	11*10 ⁵	33

All values in mg/l except for Colour in CU, ph, TC/FC in MPN/100ml

1. Supplementary 2 drain (from Mungeshpur drain) from HaiderpurBadli before joining supplement 1 drain near MukarbaChowk (D22)

- Supplementary 2 (Mungeshpur drain) at MukarbaChowk carries domestic sewage from Rohini and nearby areas finally discharging into Supplementary 1.
- This drain after meeting supplementary drain1 near Mukarbachowk flows to river Yamuna through Sahibi river (Najafgarh drain) near Wazirabad.

2. Sahibi river b/c of supplement 1 drain (near Delhi Transco office) (D23)

- Sahibi river (Najafgarh drain) carries waste water from large part of Delhi and many parts of Haryana.
- At 500 m downstream of sampling location supplementary 1 drain is merging into Sahibi river.

3. Supplementary drain 1 b/c Sahibi river near Nehru Nagar, Delhi (D24)

- Supplementary drain 1 at coordinates N 28.711262 E 77.227345 near Waziarabad old bridge just before confluence with Sahibi river was a mixed drain carrying industrial effluent from Bharogarh and other industrial areas in NCR and domestic sewage from nearby areas with a huge amount of flow.
- At upstream of sampling location Supplementary drain 2 is merging at MukarbaChowk. while at downstream it is finally discharging into Sahibi river.
- During monitoring, Sewage was observed blackish in color and having foul smell.

4. Sahibi river a/c of supplementry drains and drain no. 6 b/c river Yamuna (near signature bridge) (D25)

- Sahibi river (Najafgarh drain) enters Delhi from Najafgarh area, Delhi and traverse a distance of approx. 55 km before finally meeting with river Yamuna carried domestic sewage from South west, West and North west Delhi with a huge amount of flow.
- At upstream of sampling location distance of around 300m supplementary 1 drain carrying waste water of drain no. 6, is merging with Sahibi river.
- During monitoring, Sewage was observed blackish in color along with foul smell.

Conclusion w.r.t. Stretch 5: The analysis results of samples from drain no. 6 in stretch 4 &5, shows BOD values in range of 19 mg/l to 62 mg/l, with highest value (62 mg/l) at Singhu Border point of Delhi. Effluent colour was observed blackish in color throughout the stretch 4 & 5. The BOD of Supplementary drain 1 before meeting of drain no. 6 at Budhpur, Delhi was observed as 67 mg/l and BOD of drain no. 6 just before confluence with supplementary drain was 19 mg/l. the lower value of BOD in drain no. 6 before confluence with Supplementary drain may be because of gradual lowering of organic content after mixing of treated sewage from 10 MGD STP Narela in Delhi.

Sahibi river at location D23 before confluence of supplementary drains has a BOD -14 mg/l and TSS- 87 mg/l near Delhi Transco at Nehru Nagar, Delhi. The BOD value of Sahibi river at D25 location, before confluence with river Yamuna was observed as 50 mg/l and TSS – 257 mg/l, whereas the supplementary drain 1 before meeting Sahibi river has BOD – 66 mg/l and TSS- 363 mg/l.

Characteristics of Sahibi river in stretch 5 indicates discharge of high pollution load through Supplementary drain 1 & 2 (also including drain no. 6 discharge) resulting in higher BOD load in Sahibi river at confluence point with river Yamuna.

In stretch 5, high value of Iron-11.79 mg/l observed at D22 location which is supplementary drain 2 at Mukarbachowk, indicating industrial discharge in supplementary drain 2. The Iron concentration in Sahibi river (Najafgarh drain) after confluence of supplementary drain at Wazirabad before confluence with river Yamuna was 8.768mg/l which is significantly high.

8. INSPECTION OF INDUSTRIAL UNITS: -

- 8.1. A list of total 253 member units connected to CETPs located at Barhi, was provided by HSPCB. Out of which,136 units are effluent generating industrial units and also generating domestic wastewater; and 117 units are generating only domestic wastewater.
- 8.2. The industrial effluent generating units (136 nos.) comprise 91 textile units (~66%) and other sectors units include pharma, chemicals, food & beverages, plastic recycler, metal processing etc.
- 8.3. The joint committee comprising of officials from CPCB and HSPCB carried out inspections of 136 industrial effluent generating units on surprise basis and randomly 21 dry industries industrial units, during August 07-09th and August 12-14th 2024.
- 8.4. All the member units have primary effluent treatment plant (PETP) for primary treatment and discharge their effluent/ wastewater into common conveyance system of storm water & industrial effluent in the HSIIDC Industrial Area, Barhi, Sonipat.
- 8.5. The inspection of 136 effluent generating units was carried out for compliance verification w.r.t. consented norms and CETP inlet norms and sampling of PETP inlet and outlet were collected for analysis.
- 8.6. Randomly 21 dry units were also visited out of the list of total 117 dry member units, to ascertain that the units are not using water for any industrial purpose.
- 8.7. The industrial inspection included freshwater consumption assessment and effluent discharge quality assessment w.r.t. consented norms and CETP inlet norms and PETP/ Effluent management system performance assessment.
- 8.8. Verification of Storm Water Drain Quality: The Main Pumping Station (MPS) of CETPs located at Barhi and the storm water drain were also inspected to verify the possibility of discharge of industrial effluent into the storm water drain. Total 03 samples were collected from Storm Water Drain near MPS. The HSIIDC has

made provision of both pumping of storm water drain water into the CETP for further treatment and direct discharge into the Drain no. 6.

8.9. The analysis results of partial parameters of the total samples are received, the analysis results of specific parameters such as sulphide etc. are still awaited. hence; the final inspection reports are under preparation.

9. CONCLUSIONS & RECOMMENDATIONS

9.1. In view of the above, the joint committee requests to Hon'ble Tribunal for consideration of the following:

9.1.1. Preparation of final report is a voluminous work as it includes the compilation of inspection reports of the 157 industrial units, assessment of PETP standards of member units of CETP Barhi, performance assessment of CETPs and quality assessment drain no. 6 based on the analysis results. Also, the analysis results are still awaited for few parameters from laboratory.

9.1.2. For finalization of the report, the joint committee will deliberate upon the issues and accordingly action plans will be prepared for measures to be taken by industries and concerned agencies of CETPs for pollution control and remedial actions to be taken for water quality restoration in drain no.6 which is ultimately meeting River Yamuna.

In this regard, it is humbly requested that an extension of 06 weeks time for submission of the final report may please be granted.

This interim compliance report is submitted before Hon'ble Tribunal for consideration. It is most respectfully prayed that Hon'ble Tribunal may be pleased to pass such or further orders as it may deem fit.



Ms. Reena Satavan
Scientist 'E'
CPCB, New Delhi



Pardeep Singh
Regional Officer,
HSPCB, Sonipat

Item No. 08

Court No. 1

**BEFORE THE NATIONAL GREEN TRIBUNAL
PRINCIPAL BENCH, NEW DELHI**

Original Application No. 622/2024

Varun Gulati

Applicant

Versus

State of Haryana & Ors.

Respondent(s)

Date of hearing: 28.05.2024

**CORAM: HON'BLE MR. JUSTICE PRAKASH SHRIVASTAVA, CHAIRPERSON
HON'BLE MR. JUSTICE ARUN KUMAR TYAGI, JUDICIAL MEMBER
HON'BLE DR. A. SENTHIL VEL, EXPERT MEMBER**

Applicant: Ms. Mansi Chahal, Mr. S.A. Zaidi & Mr. Kapil Sagar, Advs.

ORDER

1. In this original application, plea of the Applicant is that the Barhi industrial area has around 900 industries and a Common Effluent Treatment Plant (CETP) with 16 MLD capacity has been set up at Barhi, Sonapat but the effluents received from industries of that area is much higher in quantity, therefore, the CETP is of under capacity. Further allegation of Applicant is that the CETP is not properly maintained and that the industrial effluent is bypassed and discharged in Drain No. 6 which finally meets the River Yamuna, therefore, polluting the river also. In support of such a plea, Applicant has enclosed the photographs as Annexure A1 onwards.

2. Learned Counsel for Applicant, during the course of argument, has also placed reliance upon communication sent by Haryana State Pollution Control Board (HSPCB) to the Principal Secretary, Govt. of Haryana Annexure A-3 dated 11.01.2022, wherein it was observed that presence of

effluent in storm water drain was beyond comprehension and that HSIIDC, Barhi, Sonapat had totally failed to perform its duty in this regard. The communication also mentions about the observation of NMCG team about improper functioning of CETP, Barhi and presence of dilution water into clarifier of CETP.

3. Learned Counsel for Applicant has referred to Annexure A-6 and has submitted that though there is a decision to prosecute 30 accused persons /officers/officials responsible for operation of CETP but on account of issue of sanction, the matter has not proceeded further.

4. We are of the view that the OA raises substantial issue relating to compliance of environmental norms.

5. Issue notice to the respondents. Applicant is directed to serve the respondents and file affidavit of service at least one week before the next date of hearing.

6. Having regard to nature of allegation made in the OA, we also form a Joint Committee comprising of representative of Member Secretary, Central Pollution Control Board (CPCB) and representative of Member Secretary, HSPCB, who will act as coordinating agency. The two-member Joint Committee will visit the site, ascertain the correct position in respect of direct discharge of effluents by the industries in Drain No. 6, capacity, capacity utilization and performance of the CETP and effluents received by said CETP. The Joint Committee will also ascertain Primary Effluent Treatment Plant (PETP) standards prescribed to the member units. The Committee will also collect the samples from discharge point of CETP and Drain No. 6 and also from the point where Drain No. 6 enters Delhi and meets River Yamuna through Najafgarh drain and get the samples analysis

done and submit the factual and action taken report before the Tribunal within a period of three months by e-mail at judicial-ngt@gov.in preferably in the form of searchable PDF/OCR Support PDF and not in the form of Image PDF.

7. The Committee will also examine the compliance by each of the industrial units in respect of discharge of effluent in that industrial area.

8. List on 19.09.2024.

9. A copy of this order be forwarded to the Member Secretaries of CPCB and HSPCB by e-mail for compliance.

Prakash Shrivastava, CP

Arun Kumar Tyagi, JM

Dr. A. Senthil Vel, EM

May 28, 2024
Original Application No. 622/2024
DV



Minutes of Meeting dated 14.06.2024 held at 03:00 PM through video conferencing to discuss the line of action in compliance of Hon'ble NGT order dated 28.05.2024 in OA No. 622/ 2024 titled Varun Gulati Vs State of Haryana & Ors.

The Hon'ble National Green Tribunal (NGT) vide order dated 28.05.2024 has issued following directions:

“Para 6. Having regard to nature of allegation made in the OA, we also form a Joint Committee comprising of representative of Member Secretary, CPCB and representative of Member Secretary, HSPCB, who will act as coordinating agency. The two-member Joint Committee will visit the site, ascertain the correct position in respect of direct discharge of effluents by the industries in Drain No. 6, capacity, capacity utilization and performance of the CETP and effluents received by said CETP. The Joint Committee will also ascertain PETP standards prescribed to the member units. The Committee will also collect the samples from discharge point of CETP and Drain No. 6 and also from the point where Drain No. 6 enters Delhi and meets River Yamuna through Najafgarh drain and get the samples analysis done and submit the factual and action taken report before the Tribunal within a period of three months.

Para 7. The Committee will also examine the compliance by each of the industrial units in respect of discharge of effluent in that industrial area.”

To ensure the compliance of Hon'ble NGT order, a meeting with RO Sonipat, Haryana State Pollution Control Board (HSPCB) was convened through video conferencing on 14.06.2024 at 03:00 PM at CPCB, Delhi to discuss the line of action in compliance of Hon'ble National Green Tribunal (NGT) order dated 28.05.2024 in Original Application (OA) No. 622/ 2024 titled Varun Gulati Vs State of Haryana & Ors.

The list of participants is enclosed at **Annexure 1**.

Director and Divisional Head of WQM-II Division, CPCB briefed the issues mentioned in both the original application and the Hon'ble NGT order which were then discussed, such as:

- The 16 MLD CETP is not properly maintained and operating under capacity (higher quantity of effluents received from member industries).
- The industrial effluent is bypassed and discharged in Drain No. 6 which finally meets the River Yamuna.

Also, it was stated that the locations/ points mentioned in the original application such as industrial discharge points in Drain no. 6, an abandon 06 MLD CETP, by-pass provision in CETP, storm water drain in Barhi, Pumping Stations and illegal industrial units in Barhi, shall also be inspected by the Joint Committee for verifying the factual status.

Thereafter, RO Sonipat informed the following:

- 16 MLD CETP has been non-compliance since February, 2022. Therefore, the upgradation of CETP is in progress and expected to be completed by 30th June, 2024.
- 10 MLD CETP is also in operation adjacent to 16 MLD CETP at Barhi in the same premises.
- Though 900 number of industries mentioned by the complainant however, since many plots of HSIIDC Barhi are vacant and industries are not operating in them.



- Another, OA No. 463/ 2023 titled Dr Lokesh Kumar Vs State of Haryana & Ors was also filed before Hon'ble NGT covering mapping of Drain no. 6 and the reports prepared in the same may be shared to CPCB for their reference.

After due deliberation, the following was concluded:

1. HSPCB shall submit the following data by 24th June, 2024:
 - a. Inlet standards notified by HSPCB for member units of CETP Barhi
 - b. General PETP design of the member units of CETP Barhi
 - c. Sector-wise number of member units of CETP Barhi
 - d. Sector-wise number of standalone units in Sonipat district
 - e. effluent disposal point of standalone units, in Sonipat district
 - f. Details about Drain no. 6 in respect of coordinates, origin, connecting drains, confluence with River Yamuna, type of drain and quality monitored
 - g. Potential sources of pollution in Drain no. 6 other than industrial units
 - h. Details of storm water drains and their pumping stations
 - i. List of illegal industries complained for operating & discharging effluent in Drain no.6
 - j. Domestic/ Sewage wastewater management in Sonipat District
 - k. Design details of 10 MLD CETP
 - l. Upgradation design details of 16 MLD CETP
 - m. List of GPIs in Barhi and List of Non-GPIs in Barhi as per updated inventory of GPIs
 - n. Discharge details of villages/ townships near Barhi
2. As informed by RO Sonipat, HSPCB, the upgradation of 16 MLD CETP in Barhi will be completed by 30th June, 2024, therefore, the monitoring of 16 MLD CETP shall be carried out in 1st week of July, 2024 and composite sampling to be done for performance assessment.
3. After 24th June, 2024, the following shall be carried out:
 - a. The mapping of Drain no. 6 will be carried out by 02 teams, starting from origin to confluence with River Yamuna. The sampling shall be performed to ascertain the quality of drain and river at representative locations.
 - b. The monitoring of 10 MLD CETP located in Barhi industrial area shall also be carried out and composite sampling to be done for performance assessment.
4. The CETPs/ STPs which are also discharging their treated wastewater into Drain no. 6 shall also be monitored, if any.
5. The plan to examine the compliance by industrial units discharging into CETPs at Barhi shall be worked out.
6. To carry out the monitoring of CETPs, mapping and sampling of Drain no. 6 from origin to confluence, inspection of member units, it is perused that a minimum three to four team needs to be constituted, consisting of one official from each organization i.e. Central Pollution Control Board and Haryana State Pollution Control Board. Accordingly, HSPCB may depute officials for conducting the joint monitoring and inspection whenever same is proposed.

The meeting ended with vote of thanks.

**Annexure-I****List of Participants**

1. Dr. A.K. Vidyarthi, Scientist-F and Director, WQM-II, CPCB Delhi
2. Mr. Pradeep Singh, Regional Officer, Sonipat, HSPCB
3. Ms. Reena Satavan, Scientist-E and Additional Director, WQM-II, CPCB Delhi
4. Dr. R.K. Singh, Scientist-D, WQM-II, CPCB Delhi
5. Dr. Vipin Kumar, Research Associate –III, WQM-II, CPCB Delhi
6. Ms. Anubha Aggarwal, SRF, WQM-II, CPCB Delhi



No. HSPCB/SR/2024/1089

Dated: 01.08.2024

To

The Member Secretary,
Central Pollution Control Board,
Parivesh Bhawan, Delhi – 110032
mascb.cpcb@nic.in

Sub: Joint inspection in the matter of OA. No. 622/2024 titled as Varun Gulati Versus State of Haryana & Ors.

Ref: Hon'ble NGT order dated 28.05.2024.

In this connection, it is submitted that Hon'ble NGT has passed order dated 28.05.2024 in the matter of OA. No. 622/2024 titled as Varun Gulati Versus State of Haryana & Ors. (copy of order enclosed). The operative part of the order is as follows:-

“the complaint of the applicant is that the Barhi industrial area has around 900 industries and a Common Effluent Treatment Plant (CETP) with 16 MLD capacity has been set up at Barhi, Sonapat but the effluents received from industries of that area is much higher in quantity, therefore, the CETP is of under capacity. Further allegation of Applicant is that the CETP is not properly maintained and that the industrial effluent is bypassed and discharged in Drain No. 6 which finally meets the River Yamuna, therefore, polluting the river also.

2. Learned Counsel for Applicant, during the course of argument, has also placed reliance upon communication sent by Haryana State Pollution Control Board (HSPCB) to the Principal Secretary, Govt. of Haryana Annexure A-3 dated 11.01.2022, wherein it was observed that presence of 2 effluent in storm water drain was beyond comprehension and that HSIIDC, Barhi, Sonapat had totally failed to perform its duly in this regard. The communication also mentions about the observation of NMCG team about improper functioning of CETP, Barhi and presence of dilution water into clarifier of CETP.

3. Learned Counsel for Applicant has referred to Annexure A-6 and has submitted that though there is a decision to prosecute 30 accused persons /officers/officials responsible for operation of CETP but on account of issue of sanction, the matter has not proceeded further.

4. We are of the view that the OA raises substantial issue relating to compliance of environmental norms.

5. Issue notice to the respondents. Applicant is directed to serve the respondents and file affidavit of service at least one week before the next date of hearing.

6. Having regard to nature of allegation made in the OA, we also form a Joint Committee comprising of representative of Member Secretary, Central Pollution Control Board (CPCB) and representative of Member Secretary, HSPCB, who will act as coordinating agency. The two-member Joint Committee will visit the site, ascertain the correct position in respect of direct discharge of effluents by the industries in Drain No. 6, capacity, capacity utilization

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 and performance of the CETP and effluents received by said CETP. The Joint Committee will also ascertain Primary Effluent Treatment Plant (PETP) standards prescribed to the member units. The Committee will also collect the samples from discharge point of CETP and Drain No. 6 and also from the point where Drain No. 6 enters Delhi and meets River Yamuna through Najafgarh drain and get the samples analysis done and submit the factual and action taken report before the Tribunal within a period of three months by e-mail at judicial-ngt@gov.in preferably in the form of searchable PDF/OCR Support PDF and not in the form of Image PDF.

7. The Committee will also examine the compliance by each of the industrial units in respect of discharge of effluent in that industrial area.

Listed on 19.09.2024.

In view of the above, the joint committee has already completed the exercise regarding the composite sampling of 16 MLD and 10MLD CETPs located at HSIIDC Barhi. Further joint committee has also conducted the sampling and mapping of all the discharge points having discharge in to Drain no. 6 along with the upstream and downstream sampling of Drain no. 6 to find out the factual quantity and quality of the effluent flowing in the drain.

Apart from the above it was also directed by the Hon'ble Tribunal that "**The Committee will also examine the compliance by each of the industrial units in respect of discharge of effluent in that industrial area**". There are 137 number of industrial units having industrial waste water discharge in to CETPs at Barhi and need to be inspected to examine the compliance status , therefore it is proposed that 08-10 no. of teams may be constituted and inspections are proposed to be scheduled on 06th – 09th August 2024 & 12th-13th August 2024 to complete the above mentioned inspections so that joint committee would be able to submit the factual report on all the aspects before the Hon'ble NGT in a time bound manner before next date of hearing i.e. **19.09.2024.**

PARDEE Digitally signed by
PARDEEP SINGH
 P SINGH Date: 2024.08.01
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 Regional Officer,
 Sonipat Region.

Endst. No. HSPCB/SR/2024/1090

Dated:01.08.2024

A copy of the above is forwarded to the Member Secretary, Haryana State Pollution Control Board, Panchkula for information and further necessary action, please.

PARDEE Digitally signed
by PARDEEP
SINGH
 P SINGH Date: 2024.08.01
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 Regional Officer,
 Sonipat Region.

List of units located in HSIIDC Barhi						Annexure-4
Sr. No.	Name and Address of Unit	Product	Category	Quantity of domestic effluent KLD	Quantity of Trade Effluent KLD	Grant status
1	MODERN DYEING PVT. LTD. PLOT NO. 527, HSIIDC, PHASE-II, BARHI, DISTT. SONEPAT	Garment washing	Red	2	1000	01/10/2022 - 30/09/2027
2	SHADEX CREATIONS PLOT NO 661 HSIIDC PHASE II BARHI	WASHING PROCESSING AND DYEING OF GARMENTS	Red	15	940	01/10/2022 - 30/09/2027
3	DHRUV GLOBALS LTD. PLOT NO 462 463 PHASE I BARHI SONEPAT	Dyeing of fabric	Red	18	800	01/10/2023 - 30/09/2028
4	ARTEX KNITTING INDUSTRIES PVT LIMITED PLOT NO 521A PHASE II HSIIDC INDUSTRIAL ESTATE BARHI SONEPAT	JOB WORK OF DYEING WASHING OF FABRIC	Red	5	550	01/10/2021- 30/09/2026
5	DENIM CRAZE PLOT NO 550-553 HSIIDC PH II BARHI SONIPAT	DYEING AND WASHING OF GARMENTS	Red	2	500	01/10/2021 - 30/09/2026
6	SINO INDIA TEXTILES PVT LTD PLOT NO 684 PH II BARHI SONIPAT	Printing of Fabric	Red	2	500	01/10/2022 - 30/09/2027
7	Addagio Knit Creation Pvt. Ltd., Plot No. 217 224, HSIIDC, Indl. Area, Barhi, Distt. Sonepat	DYEING AND WASHING OF GARMENTS	Red	1.5	400	22/04/2020 - 30/09/2024
8	SHREE SIDHI VINYAK TEXCOLOURS PVT. LTD. PLOT NO. 495,HSIIDC, PHASE-II, BARHI, DISTT. SONEPAT	Yarn dyeing	Red	3	400	01/10/2022 - 30/09/2027
9	Vardhman Creation Pvt Ltd Plot No 487 488 Phase II HSIIDC, Barhi Sonipat	Dyeing of Yarn and Bathmats	Red	2	400	01/10/2021 - 30/09/2026
10	M.S CREATIONS PLOT NO 561 HSIIDC PHASE II BARHI SONIPAT	WASHING AND DYEING OF GARMENTS, WASHING AND DYEING OF FEBRIC	Red	1	300	01/10/2019 - 30/09/2024
11	NEW GARMENTS PLOT NO.200,HSIIDC,BARHI DISST.SONEPAT	Jeans washing	Red	5	300	01/10/2022 - 30/09/2027
12	SONU ENTERPRISES PLOT NO.358,HSIIDC,BARHI,DISTT.SONEPAT {HR}	JEANS WASHING	Red	1	300	01/10/2021- 30/09/2024
13	SWASTIK MULTIFIBRE PVT LTD PLOT NO 391 HSIIDC PHASE I INDUSTRIAL ESTATE BARHI SONEPAT	Dyed Knitted fabrics	Red	0.7	300	24/01/2022 - 30/09/2026
14	TWENTY FIRST CENTURY CREATION PVT. LTD. PLOT NO. 207, HSIIDC, BARHI SONEOAT	Fabric Dyeing Finishing fabric sqm Bleaching sqm	Red	5	300	01/10/2021- 30/09/2024
15	RAJASTHAN KNITING MILLS PLOT NO.46, HSIIDC, BARHI SONEPAT	Washing of fabric Dyeing of Fabric	Red	2	300	19/06/2021- 30/09/2025
16	AKKS TEXTILES PVT LTD PLOT NO 558 PH II HSIIDC BARHI SONEPAT	Washing Dyeing Fabric	Red	2	300	19/06/2021 - 30/09/2025
17	GLOBALWASH CREATION PRIVATE LIMITED (Previously named as M/s R.D.Texo Fab Pvt. Ltd) PLOT NO 556 HSIIDC PH II BARHI SONIPAT	WASHING AND DYING OF FABRIC WASHING AND DYING OF GARMENTS	Red	1	300	22/01/2023 - 30/09/2027
18	Vardhman Gar-Tex Creators Pvt.Ltd. 420,HSIIDC,Industrial Estate, Barhi,Ganaur.	Garment Washing	Red	2	255	01/10/2020 - 30/09/2025
19	Tabi Creations Pvt. Ltd., Plot No. 540, Ph-II, Barhi, Sonepat	Yarn Dyeing	Red	0.5	250	01/10/2022 - 30/09/2027

20	SHUBHRAM HOSPITAL SOLUTIONS PVT LTD PLOT NO 485 486 HSIIDC PH II BARHI DISTT SONIPAT	Washing of linen	Red	5	245	01/10/2023 - 30/09/2025
21	Spectrum Washing Pvt. Ltd. 130, Industrial Estate, Barhi.	readymade garments washing	Red	2	240	01/10/2023 - 30/09/2028
22	SHREE JEE FABRICS PLOT NO.525B-525C, HSIIDC, Phase-II, Barhi, Sonapat, Haryana	Dyeing of fabric	Red	3	215	01/10/2022 - 30/09/2027
23	SRI RAM COTTGINS PVT. LTD PLOT NO. 501 HSIIDC INDUSTRIAL AREA BARHI SONEPAT HARYANA	DYEING OF FABRIC	Red	2	200	01/01/2022 - 30/09/2027
24	Jyoti Dhaga Udyog Pvt Ltd Plot No 406-417 HSIIDC Industrial Area Barhi Sonipat Haryana 131101	Yarn dyeing	Red	3	200	21/05/2021 - 30/09/2025
25	G C R DYEING PLOT NO 342 HSIIDC BARHI SONEPAT	Dyeing of fabrics	Red	2	200	28/06/2022 - 30/09/2025
26	Manohar Filaments Pvt. Ltd. Plot No.531-532,HSIIDC,Barhi,Part-II	Paper Cartons and Transfer Labels Hang Tags and Price Tickets Dyeing Yarn and Tape DRAW CORD AND WEAVING	Red	7	190	18/12/2022-30-09-2026
27	DENIM TOUCH PLOT NO. 600 HSIIDC BARHI SONEPAT	GARMENTS WASHING	Red	2	175	25/02/2022 - 30/09/2026
28	Such Exports Pvt. Ltd. Plot no. 179,180,184,185, HSIIDC, Industrial Estate, Barhi, Gannaur, Sonapat	Sulphur Blue	Red	2	160	01/10/2022 - 30/09/2025
29	BABBAR HOSIERY PLOT NO.83, 84INDUSTRIAL ESTATE BARHI,DISTT.SONEPAT	Fabric Dyeing	Red	5	150	04/05/2020-30/09/2024
30	FINE DYEING PVT. LTD. PLOT NO. 400,401 HSIIDC, BARHI, DISTT. SONEPAT	Dyeing of Fabric	Red	5	150	01/10/2022 - 30/09/2027
31	PP TEXOFAB PVT LTD PLOT NO 494 HSIIDC PH II BARHI SONIPAT	DYEING OF YARN DYEING OF FABRIC	Red	2	130	11/11/2022 - 30/09/2027
32	ANAND KNIT PLOT NO. 650-651 HSIIDC PHASE- II, BARHI SONEPAT HARYANA	Dyeing of fabric	Red	2	100	01/10/2022 - 30/09/2024
33	BCL FABRICS PVT. LTD PLOT NO. 667, PHASE-II, HSIIDC, BARHI, SONEPAT HARYANA	WASHING AND DYING OF FABRICS	Red	2	100	01/10/2022 - 30/09/2027
34	COLOR ZONE PLOT NO 598 PHASE II HSIIDC BARHI SONIPAT	Garment Washing	Red	2	100	01/10/2022 - 30/09/2027
35	M/S BANSAL PROCESSING HOUSE PLOT NO. 523, HSIIDC, PHASE-II, BARHI, SONEPAT	DYES FABRICS,	Red	2	100	01/10/2020 - 30/09/2025
36	M/S Savi Texfab Pvt. Ltd. plot no 544 ph-2 hsiidc barhi sonipat	Ready made garments washing	Red	1	100	01/10/2021 - 30/09/2026
37	Ram Kishan & Co. Plot no.499, HSIIDC, Phase-II, Barhi	PROCESSING OF WOVEN FABRICS,	Red	1	100	01/10/2019 - 30/09/2024
38	REXOLENE INDIA MFG PVT. LTD PLOT NO. 473E PHASE-II, HSIIDC, INDUSTRIAL ESTATE BARHI, SONEPAT, HARYANA	POLYESTER FABRIC DYEING,	Red	2	100	01/10/2022 - 30/09/2024
39	GEE AAR THEARD PVT.LTD. PLOT NO.655,HSIIDC,BARHI,DISTT.SONEPAT {HARYANA}	Dyeing of yarn	Red	2	100	01/10/2021 - 30/09/2026
40	SACHIN DYERS PLOT NO.28 HSIIDC,BARHI,DISTT.SONEPAT	DYEING OF FABRIC	Red	2	100	01/10/2021 - 30/09/2026
41	VIHAN TEXTILE PVT LTD PLOT NO 210 HSIIDC, Barhi SONEPAT	Dyeing of Fabric	Red	5	100	01/10/2022 - 30/09/2027

42	Weave N Colors Texofab Plot No 490 Phase II HSIIDC, Barhi Distt Sonipat	Handloom 3D bedsheet	Red	1	100	01/10/2022 - 30/09/2026
43	MADNI TEXTILE MILLS PVT LTD PLOT NO 387 388 PHASE 1 HSIIDC BARHI SONEPAT	DYEING PRINTING OF FABRIC	Red	2	100	01.10.2021- 30.09.2026
44	SUPER DYEING PLOT NO 498 PH-2 HSIIDC BARHI SONIPAT	DYEING OF FABRIC	Red	5	100	11/10/2022 - 30/09/2025
45	POOJA TEXTILE INDUSTRY PLOT NO 654 HSIIDC PH 2 BARHI SONIPAT	Fabric dyeing	Red	2	98	01/10/2023 - 30/09/2028
46	Brothers Stretch Yarn Pvt. Ltd. Plot No. 176, HSIIDC, Barhi Industrial Estate, District Gannaur, Sonipat, Haryana	Nylon, Polyester and Cotton Dyed Yarn	Red	3.5	90	01/10/2021 - 30/09/2026
47	Kohinoor Ribbon Factory Pvt ltd (Old name K R F Limited) Plot No. 12, Phase I, Barhi Sonapat	Dyeing of yarn Poly Bag and Printing Dyed Yarn, Sewing Thread and Woven Tapes Tape Dyed Tape Printing	Red	2	85	01/10/2023 - 30/09/2028
48	M.K Dyeing 98-99, HSIIDC Invl. Estate Barhi	HOSIERY CLOTH WASHING DYEING	Red	2	83	01/10/2020 - 30/09/2025
49	SIDHI VINAYAK APPARELS PVT LTD PLOT NO 473D HSIIDC INDUSTRIAL ESTATE BARHI SONEPAT	JOB WORK DYING WASHING OF FABRIC	Red	3	80	01/10/2023 - 30/09/2028
50	YASHAS INDUSTRIES PLOT NO 190 IE BARHI	dyeing of yarn	Red	2	80	22/07/2021 - 30/09/2024
51	Girja Dyeing PLOT NO 7 HSIIDC BARHI SONIPAT	Dyeing of fabric	Red	1	70	01/10/2022 - 30/09/2027
52	KANODIA INTERCONTINENTAL PVT. LTD. PLOT NO. 8 AND 9 HSIIDC, BARHI, SONEPAT	Dyed yarn	Red	2	70	01/10/2019 - 30/09/2024
53	MAGNET INDUSTRIES PLOT NO 230 HSIIDC BARHI SONEPAT	Garment Washing	Red	0.7	60	14/11/2022 - 30/09/2027
54	EURO THREADS (P) LTD Plot No. 343 344, HSIIDC, Barhi	DYEING OF YARN	Red	2	60	01/10/2020 - 30/09/2025
55	M/S ARYAVART DYEING PVT. LTD. PLOT NO 352 HSIIDC ,BARHI ,TEH GANAUR, DIATT SONIPAT HR.	DYEING OF YARN	Red	1.5	60	01/10/2020 - 30/09/2025
56	Global Enterprises Plot No.656,Phase-II,HSIIDC,Barhi	Yarn dyeng of polyster	Red	2	58	01/10/2023 - 30/09/2028
57	BUDH SINGH AND BROTHERS PLOT NO 36 HSIIDC BARHI SONEPAT	ACRYLIK DYEING OF YARN	Red	0.7	50	01/10/2021 - 30/09/2026
58	DENIM Art Plot no 523 D hsiidc barhi sonipat	DYEING AND FINISHING OF READYMADE GARMNETS	Red	2	50	01/10/2022 - 30/09/2027
59	GENEROUS TEXTILES PVT LTD PLOT NO 383 HSIIDC PHASE I BARHI SONEPAT	dyeing of yarn	Red	2	50	01/10/2021 - 30/09/2026
60	M/s Eurospa Terry Towel Pvt. Ltd. Plot No. 481, Bari, HSIIDC, Phase-II, Distt. Sonapat	Dyeing of Cotton	Red	2	50	01/10/2019 - 30/09/2024
61	M/S Krishna Process (old name ORIENTAL RUG CO). PLOT NO. 480, HSIIDC, PHASE-II, BARHI	DYEING OF YARN,	Red	1	50	01/10/2020- 30/09/2025
62	NATRAJ HOME FURNISHING PVT LTD PLOT NO 666 677 HSIIDC PHASE II BARHI SONEPAT	YARN/FABRIC DYEING	Red	2	50	12/01/2023 - 30/09/2025
63	Nutex Knit Fab Plot No. 359, HSIIDC, Barhi	Hosiery Dyeing	Red	1	50	02/03/2023 - 30/09/2027

64	SHIVALIK PROCESSOR PLOT NO 416 HSIIDC, Barhi SONEPAT	Dyeing of fabric	Red	1	50	01/10/2019 - 30/09/2024.
65	BALAJI PROCESSORS PLOT NO 593 HSIIDC BARHI SONIPAT	Garments	Red	2	50	20/04/2022 - 30/09/2026
66	M/s Shivam Enterprises Plot No. 274, HSIIDC, Barhi	washing of garments	Red	2	50	01/10/2020 - 30/09/2025
67	SMITZ MARKETING PLOT NO 522A PH II HSIIDC BARHI DISTT SONIPAT	THREAD TUBES THREAD CONES DYED YARN	Red	2	50	13/12/2022 - 30/09/2026
68	ABYCONS WOOLENS PVT LTD. PLOT NO 525 HSIIDC PHASE 2 BARHI SONIPAT	PRINTING OF FABRIC (Sq. meters/day)	Red	3	50	05/04/2024 - 30/09/2028
69	ABYCONS TEXTILES PRIVATE LIMITED PLOT NO 685 PHASE 2 HSIIDC BARHI SONIPAT	Printing of fabric	Red	1	48	04/09/2020 - 30/09/2024
70	M/s Dayanidhi Textiles Pvt Ltd Plot No 491 HSIIDC Phase 2, Barhi, Distt. Sonipat, Haryana	Leather garments and Skin Leather	Red	2	48	1/10/2020- 30/09/2024
71	RAKESH TEXTILE PLOT NO.240 HSIIDC, BARHI	FABRIC OF DYEING,	Red	1	48	01/10/2021 - 30/09/2026
72	VIBRANT YARNS PLOT NO 523B HSIIDC PH II BARHI SONIPAT	POLYESTER DYED YARN	Red	1	45	09/11/2023 - 30/09/2028
73	NAGPAL TRADING COMPANY PLOT 167, HSIIDC, BARHI SONEPAT	MERCERISITY VLEACHING OF YARN	Red	1	40	01/10/2021 - 30/09/2026
74	A.S.PROCESS PLOT NO.285-300, HSIIDC, BARHI, DISTT. SONEPAT {HARYANA}	DYEING OF FABRIC	Red	4	35	01/10/2020 - 30/09/2025
75	GHANSHYAM DYES AND FABTEX PLOT NO 641 PHASE II HSIIDC BARHI SONIPAT	Dyeing of cotton fabric	Red	1	30	01/10/2022 - 30/09/2027
76	SANJEEV ENTERPRISES PLOT NO. 111 PHASE-01 HSIIDC, Barhi TEHSIL-GANAUR DISTT.-SONIPAT, HARYANA	DYEING OF YARN,	Red	0.5	30	01/10/2021 - 30/09/2026
77	SUMIT ENTERPRISES PLOT NO.178, HSIIDC, BARHI, DISTT. SONEPAT	Sulphur Green	Red	2	30	01/10/2021- 30/09/2026
78	SMITZ POLYTEX 5, BARHI, HSIIDC, Sonepat	DYEING OF YARN,	Red	1.2	25	01/10/2022 - 30/09/2027
79	Supreme Fashions 524 D & E HSIIDC, Barhi Ph II Sonipat	Finished Leather	Red	4	25	01/10/2023 - 30/09/2028
80	EOC Polymers India Pvt. Ltd. Plot No. 474A & 474B, HSIIDC Industrial Estate, Barhi Phase-I	Latex Compound And Adhesive XSBR Latex	Orange	3	20	01/04/2023 - 31/03/2028
81	KOMAL TEXTILES PLOT NO 327 HSIIDC PH I BARHI SONIPAT	DYEING OF YARN	Red	1	20	01/10/2023 - 30/09/2028
82	Kuchal Fashions Pvt. Ltd. Plot No. 331, HSIIDC, Barhi, Sonepat	DYEN YARN	Red	0.5	20	15/01/2020- 30/09/2024
83	VRISHABH INDUSTRIES PLOT NO. 663, HSIIDC, BARHI, PHASE-II, SONEPAT	Yarn Dyeing	Red	2	20	01/10/2022 - 30/09/2027
84	PAPCOAT (INDIA). PVT. LTD. PLOT NO. 247 HSIIDC PHASE I BARHI SONIPAT	ZIROCONIUM BASIC CARBONATE	Orange	1	20	19/05/2022 - 31/03/2027
85	PEECO POLYTECH PVT LTD,, PLOT NO 537 PHASE 2 BARHI SONIPAT	POLY PROPLENE GRANULES LES	Orange	2	20	27/01/2023 - 31/03/2027
86	K.M. POLY YARN PVT. LTD. PLOT NO. 512, HSIIDC, BARHI	YARN	Red	0.5	18.5	01/10/2022 - 30/09/2024

87	CENNET BIOPHARMA PVT. LTD. PLOT NO 3 PHASE III HSIIDC BARHI SONIPAT	Thiocolchicoside Hyoscine Butyl Bromide Serratiopeptidase 10 Deacetylbaecatin (10 Dab) TURMERIC EXTRACTS SEEDS	Red	3.5	18	01/04/2020- 30/09/2024
88	SAMARTH INDUSTRIES PLOT NO 384 HSIIDC PH I BARHI SONEPAT	ACID DYES VIOLET AND BLUE,	Red	0.4	12	01/10/2021,- 30/09/2026
89	Denimo Design Washing Private Limited Plot No.381, Phase-1, Barhi	Washing of clothes/garments	Red	2	10	01/10/2023 - 30/09/2028
90	OASIS TEXTFAB INDIA PLOT NO. 500, HSIIDC,PHASE-II, BARHI DISTT. SONEPAT	hook and loops	Red	4	10	01/10/2023 - 30/09/2028
91	SHREE GOPAL ENTERPRISES PLOT NO 356 HSIIDC PH I BARHI SONEPAT	DYEING OF YARN	Red	1	10	01/10/2020 - 30/09/2025
92	TSB POLYCHEM PVT LTD Plot no. 212 HSIIDC Barhi Sonipat Haryana	Plastic Dana	Orange	1	10	20/05/2024 - 31/03/2029
93	Royal Enterprises PLOT NO 555 HSIIDC PHASE II BARHI SONEPAT	METHYL COBLAMIN Bulk Drug Item	Orange	1	9	01/04/2022 - 31/03/2027
94	CAMLANO AND COMPANY PLOT NO 357 PHASE I HSIIDC INDUSTRIAL ESTATE BARHI DISTT SONIPAT	Bath Accessories	Orange	1.2	5	01/10/2020 - 30/09/2025
95	Hue Plus Industries Plot No. 429,HSIIDC,Barhi	Phthalocyanine Beta Blue, Chromocyanine Green,	Red	1	5	01/10/2020 - 30/09/2024
96	PARAS TUBETECH PVT LTD PLOT NO.459, PHASE I, HSIIDC, BARHI, SONIPAT HARYANA	CEW STEEL TUBES	Red	1.5	5	19/01/2020 - 30/09/2024
97	SIA PHARMA PVT LTD PLOT NO 170 HSIIDC PH I BARHI SONEPAT	Ointment, Capsule, Tablets,	Orange	1	5	01/04/2017 - 31/03/2027
98	Ansh beverages pvt ltd Plot- 39, ph-1, hsiidc, bari,sonipat, haryana	SOFT DRINKS JUICES	Orange	0.5	5	11/09/2021 - 30/09/2026
99	Shri Balaji Enterprises Plot no. 620 HSIIDC, Barhi Sonipat	LD Pipe Cutting washing	Orange	0.5	5	02/03/2021 - 31/03/2025
100	SEASON FARM PLOT NO. 157, HSIIDC, BARHI	Frozen Vegetables	Orange	0.5	3.5	01/04/2024 - 31/03/2029
101	Value Foods Plot No 273 Phase 1 HSIIDC, Barhi Tehsil Ganaur District Sonepat	processing of fruits and vegetable,	Orange	0.5	3	01/04/2017- 31/03/2027
102	ARSHIYA DECOR PRIVATE LIMITED PLOT NO.549,HSIIDC BARHI GANAUR SONEPAT	Paper print	Orange	1	3	01/04/2022 - 31/03/2027
103	DESIGN O CREATIONS PLOT NO 175 HSIIDC PH I BARHI	FMCG display units & kitchen accessories	Red	1	3	01/04/2020- 30/09/2024
104	FIRST PURE DIET MILK PRODUCTS PLOT NO. 325, PH.I, HSIIDC, INDUSTRIAL ESTATE BARHI DISTT. SONEPAT	Milk Products	Red	1	2.5	01/10/2020 - 30/09/2025
105	VINAYAK DYEING HOUSE PLOT NO 590 HSIIDC, Barhi SONIPAT	DYED YARN	Red	0.5	2.5	01/10/2022 - 30/09/2027
106	Indies Global Foods Private Limited Plot No 244, Barhi Phase - 1, HSIIDC	Ready to eat and ready to cook food	Orange	0.3	2	19/05/2018 - 31/03/2028
107	METRO PULP INDUSTRIES 415 PHASE 1 BARHI INDUSTRIAL ESTATE SONIPAT	Safety pins	Red	1.5	2	01/10/2023 - 30/09/2028
108	SUPREME SURFACTANTS P LTD PLOT NO 213 HSIIDC, Barhi SONIPAT	Surfactants	Orange	0.1	2	01/04/2019, To - 31/03/2029

109	JAINSONS INTERNATIONAL PLOT NO 525, PHASE-II, HSIIDC BARHI, SONIPAT	CATLLE,TOASTER,COOKER,OT HER ELECTRICAL APPLIANCES	Red	3.5	2	05/09/2021 - 30/09/2026
110	SHOORBHOI EXPORTS PLOT NO 440 HSIIDC PHASE I BARHI SONIPAT	MS FABRICATED STEEL STRUCTURE SCREWS NUT BOLTS	Red	0.5	2	15/11/2021 - 30/09/2026
111	BAJRANG ENGINEERING WORKS plot no.296, hsiide, phase-I, industrial estate, barhi, sonipat haryana	S.S Sheet	Red	1	2	18/11/2019 - 30/09/2024
112	BISHA DEVELOPERS PVT LTD PLOT NO 173 HSIIDC BARHI SONIPAT	Battery Plates and Batteries	Orange	1	2	08/02/2018 - 31/03/2027
113	Smart Enterprises Plot no 96, Phase-III, HSIIDC, Barhi, Sonipat	Ceiling fans Geysers	Red	2	2	01/10/2023 - 30/09/2028
114	SMART ENTERPRISES plot no 97 ph 3 sec 23 HSIIDC BARHI SONIPAT	Ceiling Fan	Red	2	2	12/02/2021 - 30/09/2025
115	Anju International Plot no 165 hsiide ph iii barhi	knitted items knitted fabric	Orange	1	2	01/04/2024 - 31/03/2029
116	GOEL BROS. PLOT NO 73, PHASE I, HSIIDC BARHI, SONIPAT	DOOR AND WINDOW FITTINGS	Red	1	2	11/09/2021 - 30/09/2025
117	JAI MATA PLASTIC PLOT NO 453 HSIIDC PH I BARHI SONIPAT	WASHING OF PLASTIC WASTE CUTTING	Orange	1	2	22/11/2021 - 31/03/2026
118	SHREE KRISHNA BUTTONS PLOT NO 29 HSIIDC PHASE I BARHI SONIPAT	MANUFACTURING OF BUTTONS	Red	1	2	12/06/2022 - 30/09/2026
119	TANVI ENTERPRISES PLOT NO 293 HSIIDC PH I BARHI SONIPAT	PLASTIC GRANUELS	Orange	1	2	12/12/2022 - 31/03/2027
120	JAI HANUMAN LAMINATES PVT. LTD. PLOT NO 389 HSIIDC PH I BARHI SONIPAT	APPLE AND EGG TRAY	Red	2.5	2	29/01/2023 - 30/09/2027
121	ALPHA CHEMICALS AND INTERMEDIATE Plot No 169, Phase-III, HSIIDC Barhi, Sonipat	TRIAMCINOLONE ACETONIDE INTERMEDIATE METHYPREDNISOLONE INTERMEDIATE DEFLAZACORT INTERMEDIATE	Red	1	2	01/03/2023 - 30/09/2027
122	Smart Enterprises Plot No. 99, Phase-III, HSIIDC Barhi, Sonipat	GEYSER	Red	1	2	17/05/2023 - 30/09/2027
123	Novacare Appliances Pvt Ltd Plot no 6 Phase-III, HSIIDC Barhi, Sonipat	INDUCTION RICE COOKER GAS GEYSER GAS STOVE IRON MIXER KETTLE TOASTER ROOM HEATER IMMERSION WATER HEATER	Red	1	2	14/09/2023 - 30/09/2027
124	THETWAL ENERGY PVT LTD PLOT NO 109 PHASE 1 HSIIDC BARHI SONIPAT	Bio Diesel	Red	1.5	1.5	17.02.2021 - 30.09.2025
125	B.R. Specialities LLP Plot No.407,Barhi Textile Park,Phase-I,HSIIDC	TEXTILE AUXILIARIES	Red	4	1	01/10/2023 - 30/09/2028
126	PAXY CHEM 448 PHASE-1 HSIIDC INDUSTRIAL ESTATE BARHI	Clacium Sulphate	Red	1	1	01/10/2023 - 30/09/2028
127	RAJA INDUSTRIES PLOT NO 298 HSIIDC BARHI SONIPAT	Colour Dyes	Red	1	1	01/10/2023 - 30/09/2028
128	Super Texfab Pvt Ltd 206 HSIIDC Industrial Estate PH-I Barhi Sonipat	Printing of corrugated box, Jute bag	Orange	1	1	01/04/2021- 31/03/2026

129	RUBY INDUSTRIES PLOT NO 54 HSIIDC BARHI SONIPAT HARYANA	Coronet sweet candy lollipop Jelly	Green	1.5	1	26/07/2023 - 31/12/2027
130	A.S BRAVNY METAL AND ALLOYS PVT. LTD. PLOT NO. 20 HSIIDC PHASE I BARHI SONIPAT	LEAD INGOTS	Red	1	0.5	14/06/2021 - 30/09/2025
131	Amogh pharmaceuticals pvt ltd PLOT NO 308 HSIIDC PH I BARHI	Ayurvedic syrup Ayurvedic tablets and capsules Ayurvedic Powder	Green	1	0.5	03/10/2019 - 02/10/2024
132	DEEPAK ENTERPRISES PLOT NO.262,HSIIDC,BARHI,DISTT.SONE PAT {HARYANA}	ELECROPLATING	Red	0.2	0.5	01/10/2021 - 30/09/2026
133	SINO INDIA TEXTILES PVT LTD PLOT NO 687 HSIIDC PHASE II BARHI SONIPAT	Fabric	Green	1	0.5	01/01/2023 - 31/12/2027
134	SWASTIK TOUGHENED GLASS LLP PLOT NO 413 PHASE 1 HSIIDC, Barhi SONEPAT	Toughned glass	Green	1	0.5	01/04/2024 - 31/12/2026
135	Rail Coach Naveenikaran Karkhana Sonipat Oo Chief Workshop Manager, Rail Coach Naveenikaran Karkhana Sonipat, HSIIDC, Phase-III, Barhi Industrial Area, Barhi, Distt.- Sonipat, Haryana.	Rehabilitation of LHB Coaches	Orange	35	0.3	01/04/2024 - 31/03/2025
136	DHARAMPAL ALLOYS PRIVATE LTD. PLOT NO 518 HSIIDC PH II HSIIDC BARHI SONIPAT	LEAD INGOTS	Red	1	0.2	07/03/2022 - 30/09/2026
137	CHANDNI INDUSTRIES PVT. LTD PLOT NO. 503, PHASE -II, BARHI, INDUSTRIAL ESTATE SONEPAT	Playing cards and printed sheets	Orange	0.4	0.2	01/04/2024 - 31/03/2026
138	A.S. Shoe Accessories Pvt. Ltd. PLOT NO 421 HSIIDC BARHI PHASE 1 BARHI INDUSTRIAL AREA SONIPAT	POLYESTER POLYOL POLYESTER PREPOLYMER CATALYST	Orange	1.5	0	01/04/2024 - 31/03/2029
139	ADELA ELECTRICALS PVT. LTD. plot no 5 Phase-III, HSIIDC Barhi, Sonipat	Power cord WIRE HARNESS	Orange	7	0	13/01/2024 - 31/03/2028
140	BABA LALDASS FABRIC COATS PVT LTD PLOT NO 522 PHASE 2 HSIIDC BARHI SONIPAT	Cotton coated fabrics	Orange	1	0	01/04/2024 - 31/03/2029
141	Cargill India Pvt, Ltd. Plot No. 403-404 HSIIDC Barhi Sonipat	Cattle feed	Orange	2.5	0	01/04/2023 - 31/03/2028
142	CENTURY LABELS PVT LTD PLOT NO 14 HSIIDC BARHI SONEPAT	Label Weaving (weaving of yarn)	Green	1	0	22/03/2023 - 31/12/2027
143	COSMIC PETROCHEM PRIVATE LIMITED PLOT NO. 216, HSIIDC, BARHI	POLYTHYLENE WAX OTHER WAX	Orange	2	0	01/04/2016 - 31/03/2026
144	DB STEELS PVT LTD 408 PHASE 1 HSIIDC BARHI GANNAUR SONEPAT	Pure Lead	Red	1	0	01/10/2019- 30/09/2024
145	GAYATRI POLYCOATS PLOT NO 528 HSIIDC BARHI SONEPAT	Cotton coated fabric	Orange	0.8	0	01/04/2024 - 31/03/2029
146	JAI BHARAT EXTRUSTION PLOT NO 154 155 PHASE I HSIIDC INDUSTRIAL ESTATE BARHI DISTT SONIPAT 131101	Aluminium Billet	Orange	2.5	0	23/01/2020 - 31/03/2025
147	K.R.FABRIC PVT.LTD. PLOT NO.539,HSIIDC,BARHI,PHASE- II,SONEPAT {Haryana}	Cotton coated fabric	Orange	0.5	0	01/04/2023 - 31/03/2025
148	KALI VAHAN RUBBER UDYOG PLOT NO 390 PHASE 1 HSIIDC BARHI SONIPAT	Rubber tubes	Orange	1.5	0	01/04/2023 - 31/03/2028

149	KAPIL ENTERPRISES PLOT NO. 118 SECTOR -23 PHASE -III BARHI INDUSTRIAL AREA SONIPAT	HEX BOLT ANCHOR BOLT STUD BOLT NUTS	Orange	0.5	0	01/04/2024 - 31/03/2029
150	KAVYA ENTERPRISES PLOT NO. 53 , PHASE-I , HSIIDC Barhi , DISTT. SONIPAT Haryana	Sheet	Green	1.5	0	01/01/2024 - 31/12/2029
151	KBS INDUSTRIES PVT. LTD. PLOT NO.418, HSIIDC, BARHI	Copper Wire	Orange	1.5	0	09/06/2021- 31/03/2026
152	M/S CORPORATE ALLIANCES PLOT NO. 379, HSIIDC, PHASE-I, BARHI, SONEPAT	BREAD	Orange	1	0	01/04/2016 - 31/03/2026
153	M/S MAHALUXMI RUBBER UDYOG PLOT NO.94,95 ,106, HSIIDC, PH-I, BARHI	AGRICULTURE TUBES AUTO TUBES	Orange	1.5	0	01/04/2022 - 31/03/2027
154	M/S R.V.S AGRO PRODUCTS PLOT NO. 221, HSIIDC, PH-1, BARHI	Particle Board	Orange	2	0	01/04/2018 - 31/03/2028
155	MANIKARAN METAL ALLOYS LLP PLOT NO 112 PHASE I HSIIDC BARHI SONIPAT	Lead Ingots	Red	0.7	0	11/11/2019 - 30/09/2024
156	MBS TEXTILE PVT.LTD PLOT NO. 535 HSIIDC PHASE-II BARHI SONEPAT Haryana	Cotton Coated Fbric	Orange	1	0	01/04/2022 - 31/03/2026
157	NAVAIR INTERNATIONAL PVT LTD Plot No 399, 424, Phase-I, HSIIDC Barhi, Sonipat	Door Frames	Green	2.5	0	01/04/2022 - 31/12/2026
158	NEW HARIOM POLYCOATS PLOT NO.497,PHASE-II,HSIIDC BARHI	COTTON COATED FABRIC REXINE	Orange	3	0	01/04/2020- 31/03/2025
159	Nirmal Trans Belts Pvt. Ltd (Old name as NIRMAL UDYOG) PLOT NO. 192, HSIIDC, BARHI	V BELT	Green	1	0	01/04/2022 - 31/03/2024
160	Prasha Chemicals Pvt. Ltd. Plot No. 364,HSIIDC,Barhi	SODIUM HYPOCHLORITE,	Orange	1	0	01.04.2021- 31.03.2026
161	PRIME POLYTEX PLOT NO 489 HSIIDC PH- 2 BARHI INDUSTRIAL AREA SONIPAT	EVA SHEET FABRIC LAMINATION (SQ. MTR.)	Green	1.5	0	01/04/2024 - 31/12/2025
162	R A S PACKAGING PLOT NO 542 PHASE II HSIIDC INDUSTRIAL AREA BARHI SONIPAT	PLASTIC GARMENTS ACCESSORIES (Flexible Packaging material)	Orange	1	0	01/04/2024 - 31/03/2026
163	S.S ENTERPRISES PLOT NO 419 HSIIDC PHASE 1 BARHI SONIPAT	COMPOSIT SOLVENT MIX SOLVENT THINNER CHEMICAL	Orange	0.5	0	01/04/2018 - 31/03/2027
164	SAI POLY COATS PVT. LTD. PLOT NO.529, HSIIDC, BARHI, SONEPAT	cotton cated fabric	Orange	0.8	0	01/04/2023 - 31/03/2028
165	Shiv Shakti Enterprises Plot No 252 PH- 1 HSIIDC, Barhi Sonapat	Non ferrous metal ingots	Red	1	0	01/10/2022 - 30/09/2027
166	SHREE KARANGAR TEXTILEPVT. LTD. PLOT NO.683, HSIIDC, PH-II, BARHI	Textile Coated Fabric Knitting fabric	Orange	2	0	18/12/2022 - 31/03/2027
167	Shri Durga Texcoat Pvt. Ltd. Plot No. 483 & 498, Phase-II, HSIIDC, Barhi, Distt. Sonapat	Cotton coated fabric	Orange	1.5	0	01/04/2022 - 31/03/2027
168	SHRI SAI INTERNATIONAL PLOT NO 40 BARHI INDUSTRIAL AREA SONEPAT HARYANA	Polyster Resin	Orange	1	0	01/04/2023 - 31/03/2033
169	SIDHI VINAYAK FOOTCARE PVT LTD PLOT NO 547 PHASE 2 HSIIDC, Barhi SONEPAT	Cotton coated fabric	Orange	1	0	01/04/2024 - 31/03/2029
170	SYNERGY ADDITIVES PLOT NO31 HSIIDC, Barhi SONEPAT	PVC ADDITIVES FORMULATION,	Orange	0.5	0	01/04/2022 - 31/03/2032

171	TANDON SOLVENTS AND CHEMICALS PLOT NO 43 44 45 PHASE 1 HSIIDC, Barhi SONIPAT	Thinner mix solvent	Orange	0.5	0	04/11/2023 - 31/03/2028
172	TR Foundry Private Limited Plot no. 648, Phase-II, Industrial Estate Barhi	Casting of Iron	Orange	3	0	01/04/2022 - 31/03/2027
173	V.S.APPARELL PLOT NO.41,BARHI INDUSTRIAL AREA,DISTT.SONEPAT	SULPHUR BLACK SODIUM THIOSULPHATE	Red	0.5	0	01/10/2020 - 30/09/2025
174	VSN METAL WORKS PLOT NO 525 F HSIIDC PHASE 2 BARHI SONIPAT	Brass Rod	Orange	1	0	01/04/2024 - 31/03/2029
175	Wyan Industries Pvt. Ltd. (Formerly known as M.R.A Metal Pvt. Ltd.) Plot No. 1713-1714, 1716 Industrial Estate Rai, Phase-V, HSIIDC,	AUTO CLUTCH PARTS	Orange	2.5	0	1.4.2021 - 31.3.2026
176	BMDC ENTERPRISES PVT LTD PLOT NO 439, PHASE-I, HSIIDC BARHI, SONIPAT	Zinc Ingots	Orange	1	0	11/02/2019 - 31/03/2028
177	JINDAL ZINC PLOT NO 566 PHASE 2 HSIIDC BARHI SONIPAT HARYANA	ZINC INGOTS	Red	0.5	0	02/06/2020 - 30/09/2024
178	NUTEX INDUSTRIES PLOT NO.617 , HSIIDC, PHASE II, BARHI SONIPAT	Sulphur black hypo	Red	1	0	14/09/2020 - 30/09/2024
179	KETAN RIBBON PVT. LTD. PLOT NO. 492, HSIIDC, BARHI, PHASE-II	COTTON COATED FABRIC	Orange	1.4	0	01/04/2022 - 31/03/2027
180	TORCO OILS PRIVATE LIMITED PLOT NO. 454 HSIIDC PHASE -1, INDUSTRIAL ESTATE BARHI, DISTT. SONEPAT	Lube Oil Grease	Green	0.5	0	01/01/2024 - 31/12/2027
181	DAIWIK APPLIANCES CO. PLOT NO 323, PHASE-I, HSIIDC BARHI, SONIPAT, HARYANA	BRASS PARTS ITEM	Orange	1.5	0	12/11/2020 - 31/03/2030
182	CENTURION POWER CABLES PVT LTD Plot No 526, Phase-II, HSIIDC Barhi, Distt. Sonipat	ELECTRIC CABLE	Orange	0.5	0	12/11/2020 - 31/03/2025
183	TRANSPARENT METALS AND PIGMENTS PVT LTD PLOT NO 659 HSIIDC PHASE II Barhi SONIPAT	RED OXIDE GRAY OXIDE	Red	1	0	05/11/2020 - 30/09/2025
184	Aks impex Plot no 300, barhi industrial area phase 1 HSIIDC sonipat haryana	Katha	Orange	1	0	09/12/2020 - 31/03/2025
185	FUTURE POLYCOATS PVT LTD PLOTNO 42 44 PHASE 3 HSIIDC BARHI SONIPAT	REXINE FABRIC CIRCULAR KNITTING FABRIC WARP KNITTING	Orange	2	0	10/12/2020 - 31/03/2025
186	NVS INDUSTRIES Plot No 171, Phase-1, HSIIDC Barhi, Sonipat	Stainless steel items	Orange	0.5	0	30/12/2020 - 31/03/2030
187	NAVAIR INTERNATIONAL PVT LTD Plot NO 468, Phase-I, HSIIDC Barhi, Sonipat	Fire rated doors and frames	Orange	3	0	23/01/2021 - 31/03/2030
188	SURYA INDUSTRIES.. PLOT NO 427 D PHASE 1 HSIIDC BARHI SONIPAT	Tubes	Green	2	0	18/03/2021- 31/12/2025
189	RADHEY RADHEY COMPOUNDS PLOT NO 373 BARHI SONIPAT	Tyre and Tube patch cycle sheet	Green	1.5	0	30/03/2022 - 31/12/2026
190	CHEMZONE POLYRESINS PLOT NO 89 HSIIDC PH III BARHI SONIPAT	SYNTHETIC RESIN	Orange	1	0	26/04/2022 - 31/03/2026
191	A S FOOTKRAFT PLOT NO 16 HSIIDC BARHI PHASE 1 SONIPAT	EVA SHEETS	Green	1.2	0	03/05/2022 - 31/12/2026

192	V.B HOLDING PVT LTD PLOT NO 219 HSIIDC BARHI SONIPAT	Lead, Selenium, Tin, Calcium Antimony Alloy	Red	1	0	07/05/2022 - 30/09/2026
193	SHIV SHAKTI PLASTIC INDUSTRIES Plot no 506 HSIIDC Barhi Ganaur Sonipat Haryana	EVA SHEET Fabric Lamination	Green	1.5	0	26/06/2022 - 31/12/2026
194	RAINWAX POLYMER PVT LTD PLOT NO. 678 HSIIDC PHASE II BARHI SONEPAT	POLYETHYLENE WAX OTHER WAX	Orange	1	0	12/08/2022 - 31/03/2027
195	BARNALA AUXI COLOUR LLP PLOT NO 370, PHASE I, HSIIDC BARHI, SONIPAT	Dry Dyes	Red	1	0	01/10/2023 - 30/09/2028
196	BDR HABERDASHERY INDIA PVT LTD PLOT NO 62 PHASE I HSIIDC INDUSTRIAL ESTATE BARHI DISTT SONEPAT	Tape Measures Hooks SS Foils	Orange	1	0	01/04/2022 - 31/03/2032
197	Dream Home Tex Pvt Ltd Plot No 668, Phase-II, HSIIDC Barhi, Sonipat	THICKNER, SOFTNER, SILICON OIL	Orange	0.5	0	26/02/2020 - 31/03/2029
198	EUREKA SPECIALITY LABS PLOT NO 139 PHASE I INDUSTRIAL ESTATE BARHI HSIIDC GANUAR SONIPAT	Soap and detergent	Orange	2	0	01/04/2024 - 31/03/2027
199	FERRITE METAL SOLUTIONS PVT LTD Plot No-166, Phase-1, Industrial Estate, Barhi, Sonipat, Haryana	Welding Rod	Orange	2	0	01/04/2023 - 31/03/2027
200	K.K. PAPER PRODUCTS PLOT NO 664, PHASE-II, HSIIDC BARHI, SONIPAT	PAPER BAG PAPER NAPKIN PAPER PLATE PAPER CUP PRINTED WRAPPING PAPER	Orange	2.5	0	01/04/2024 - 31/03/2025
201	M C A INTERNATIONAL PLOT NO. 18, HSIIDC, BARHI	Mineral chemical	Green	2	0	07/05/2018 - 31/12/2027
202	M/S A ONE FIBERS PVT. LTD. PLOT NO. 410, PHASE-I, BARHI, SONEPAT	SCORING PAD	Orange	1	0	01/04/2023 - 31/03/2028
203	MVS INDUSTRIES Ground Floor, Plot No-460, Phase-I, Indl. Estate, Barhi, Sonapat	LPG Hose Pipe	Green	1.5	0	13/01/2019 - 31/12/2024
204	NOE TECH INTERnaTIONaL PVT LTD PLOT NO 411 BARHI INDUSTRIAL ESTATE PHASE I GT ROAD SONEPAT	DAIRY EQUIPMENTS,	Orange	1.5	0	01/04/2016 - 31/03/2026
205	OM TRADING CO PLOT NO 20 HSIIDC BARHI	JUTE PRINTED BAGS	Orange	1	0	01/04/2016 - 31/03/2026
206	ROCKFORD ABRASIVES PLOT NO 363, PHASE-I, HSIIDC, Barhi, SONIPAT, Haryana	Polish Compounds	Green	1	0	14/01/2020 - 31/03/2029
207	SANT INDUSTRIAL CONTROLS PVT LTD PLOT NO 318 IE BARHI	Strainer Valves	Orange	1	0	01/04/2018 - 31/03/2028
208	SANT INDUSTRIES PLOT NO 317 IE BARHI	valves Strainers	Orange	1	0	01/04/2018 - 31/03/2028
209	Shatabdi Exports Pvt. Ltd. 469-473 HSIIDC, Barhi Sonipat	Mats and Rugs	Green	8	0	01/01/2022 - 31/12/2025
210	SHISHTI METALS PRIVATE LIMITED PLOT NO 474 PHASE I BARHI SONEPAT	TELECOM TOWERS SHELTERS AND OTHER FABRICATION WORK	Orange	2	0	01/04/2023 - 31/03/2028
211	YASH INTERNATIONAL PLOT NO 92 HSIIDC PHASE 1 BARHI SONIPAT	CALCIUM FILLER/FILLER MASTER BATCH	Green	1	0	01/01/2023 - 31/12/2032
212	A V Wood Coatings Pvt Ltd Plot No.226, Phase-I, HSIIDC Barhi	Thinner Lacquer	Orange	1	0	01/04/2024 - 31/03/2034
213	PAP COAT INDIA PVT LTD PLOT NO 246 HSIIDC PHASE I BARHI SONEPAT	Binder Printed kraft paper	Orange	0.5	0	01/04/2018 - 31/03/2028

214	Metecycle India PLOT NO 409, PHASE-I, HSIIDC BARHI, SONIPAT	FERROUS AND NON FERROUS METAL PRODUCTS	Orange	1	0	11/10/2020 - 31/03/2025
215	Green Climate Solution Pvt Ltd PLOT NO 199, PHASE-I, HSIIDC BARHI, SONIPAT	OPPER AND ALUMINIUM FROM WIRE PVC FROM WIRE ALUMINIUM AND COPPER INGOTS	Orange	1	0	10/12/2020 - 31/03/2025
216	VITAL HOME CARE PLOT NO 363, GROUND FLOOR, PHASE-I, HSIIDC BARHI, SONIPAT, HARYANA	Detergent and Detergent soap	Green	0.5	0	23/01/2021 - 31/12/2025
217	TASMAY UNICOATS PVT. LTD. PLOT NO 100 PHASE I HSIIDC INDUSTRIAL AREA BARHI DISTT SONIPAT	Latex Compounds	Green	0.5	0	05/03/2021- 31/12/2025
218	BALAJI PLASTIC INDUSTRIES PLOT NO 225, PHASE-I, HSIIDC BARHI, SONIPAT	GRANULE S (LDPE)	Orange	1.5	0	06/09/2021 - 31/03/2026
219	INDUSTRIAL ENGINEERING CORPORATION PLOT NO 17 HSIIDC PHASE I BARHI SONIPAT	S.S HOUSEHOLD ELECTRICAL ITEMS AND UTENSILS	Orange	2	0	15/01/2022 - 31/03/2026
220	KARONA AEROSOL LLP PLOT NO 525-A, PHASE-II, HSIIDC BARHI, SONIPAT	Deodrant Spray Perfume and Shaving Foam	Orange	2.5	0	18/02/2022 - 31/03/2026
221	AKSHAR MOLECULES INC. PLOT NO 427A, PHASE-I, HSIIDC BARHI, SONIPAT	CAPSULES TABLETS	Orange	1.5	0	28/02/2022 - 31/03/2031
222	AKSHAR MOLECULES Plot no. 268, Phase-I, HSIIDC Barhi, Sonipat	CAPSULES	Orange	2.2	0	29/03/2022 - 31/03/2026
223	AGROPLAST 120, BARHI INDUSTRIAL AREA PHASE-I, SONEPAT HARYANA-131101	PLASTIC PIPE FITTINGS	Orange	0.5	0	15/04/2022 - 31/12/2026
224	LAXMI TEXTILE PLOT NO 191 PHASE I HSIIDC BARHI SONIPAT	Knitting fabric	Green	1	0	31/05/2022 - 30/05/2027
225	RITUAL DRUGS PVT LTD PLOT NO 271-272, PHASE-I, HSIIDC BARHI, SONIPAT	CAPSULES TABLETS OINTMENT CREAM/SHAMPOO	Orange	3.5	0	20/06/2022 - 31/03/2032
226	PAXTON OVERSEAS PVT. LTD PLOT NO. 375, PHASE-I, HSIIDC, INDUSTRIAL AREA BARHI, SONEPAT, HARYANA	Knitting fabric	Green	1	0	09/07/2022 - 31/12/2029
227	SHRI VINAYAK DESIGNS PLOT NO. 220, PHASE-1, HSIIDC BARHI, SONIPAT HR. 131101	Knitted fabric	Green	1	0	31/07/2022 - 31/12/2026
228	B R INC. Plot 4 HSIIDC Barhi Sonipat	Burger boxes Compostable paper cups/bowls/buckets/lids Compostable paper straw paper cartons/food packaging products Paper bags	Orange	3	0	20/05/2024 - 31/03/2030
229	D.K POWER ENGINEERS PVT.LTD PLOT NO. 524 HSIIDC INDUSTRIAL AREA BARHI SONEPAT	NON WOVEN FABRIC NEEDLE PUNCH ALUMINIUM FOIL POLYESTER STAPLE FIBER	Green	1	0	27/09/2022 - 31/12/2026
230	RUBBER RECLAIM UDYOG. PLOT no. 302 HSIIDC BARHI SONIPAT	MESH CRUMB RUBBER	Orange	1	0	18/10/2022 - 31/03/2027

231	PAXTON OVERSEAS PVT. LTD.... PLOT NO. 511, PHASE-2, HSIIDC, INDUSTRIAL AREA BARHI, SONEPAT, HARYANA	Knitting fabric	Green	1	0	10/11/2022 - 31/12/2026
232	RAVI POLYMERS PLOT NO 461 PH I HSIIDC BARHI SONIPAT	PVC PIPE AND OTHER PVC PRODUCTS	GREEN	2	0	26/11/2022 - 31/12/2026
233	SHRI BALAJI ENTERPRISES PLOT NO. 546 HSIIDC PH II BARHI SONIPAT	RECYCLED PLASTIC GRANUELS	Orange	1.5	0	22/01/2023 - 31/03/2027
234	PARAMOUNT FOODS PLOT NO. 301, HSIIDC, PHASE-I, BARHI SONIPAT	WHITE BREAD MULTIGRAIN BREAD BROWN BREAD PAV BREAD KULCHA PIZZA BASE BURGER BUN ATTA BREAD	Green	1.5	0	18/01/2023 - 31/12/2027
235	SHRI BALAJI ENTERPRISES 432, PHASE-1, HSIIDC INDUSTRIAL ESTATE, BARHI, Baraut, Ganaur, Sonipat, Haryana, 131101	PVC COMPOUND	Orange	0.5	0	18/01/2023 - 31/03/2025
236	SHRI RAM FASHION PLOT NO 668 PHASE 2 HSIIDC INDUSTRIAL ESTATE BARHI SONEPAT HARYANA	Knitting fabric	Green	1	0	18/01/2023 - 31/12/2027
237	PRIME GEO PLAST PLOT NO 1 GROUND FLOOR MEZZAINE FOOR SECTOR 18 PHASE III BARHI SONIPAT	PLASTIC DRAINAGE BOARD PLASTIC MEMBRANE SHEET PLASTIC GARDEN NET	Green	1.5	0	20/02/2023 - 31/12/2027
238	POWER WOOD COATINGS LLP PLOT NO 26 PHASE 1 HSIIDC BARHI SONIPAT	WOOD COATINGS	Orange	1	0	24/04/2023 - 31/03/2028
239	HAITEK INDUSTRIAL FABRICS PVT LTD PLOT NO 17 PH III SEC 18 HSIIDC BARHI DISTT SONEPAT HARYANA	INDUSTRIAL FABRIC	Green	7	0	20/06/2023 - 31/12/2027
240	DELITE COLLECTIONS PVT LTD Plot No 209, HSIIDC, Ph I, Barhi, Sonapat	COTTON COATED TEXTILE FABRICS	Orange	4	0	14/07/2023 - 31/03/2032
241	MVS INDUSTRIES PLOT NO 562 PH II HSIIDC INDUSTRIAL AREA BARHI SONIPAT HARYANA	LPG HOSE PIPE AND ALL KINDS OF RUBBER HOSE REEL	Green	2.5	0	21/08/2023 - 31/12/2027
242	Ambey Polymers Plot no 521H HSIIDC Barhi Sonipat	Poly Propylene Yarn	Orange	2	0	12/10/2023 - 31/03/2028
243	NIEMLA PLOT NO 464-465 PH I HSIIDC INDUSTRIAL AREA BARHI DISTT SONIPAT	FABRIC	Green	4	0	14/11/2023 - 31/12/2028
244	SURYA LABORATORIES PVT. LTD PLOT NO 521 D HSIIDC PH II BARHI SONIPAT	BABY AND ADULT DIAPERS	GREEN	2	0	19/12/2023 - 31/12/2027
245	NATRAJ POLYCHEM PVT LTD plot no 18 sector 22 ph III Hsiidc barhi distt. sonipat	PLASTIC PIPE / PLASTIC DANA	Orange	2	0	26/12/2023 - 31/03/2028
246	PAPCOAT INDIA PRIVATE LIMITED PLOT NO 248 HSIIDC PH I BARHI SONIPAT	AMMONIUM ZIRCONIUM CARBONATE	Orange	1	0	28/12/2023 - 31/03/2033
247	NATRAJ HOME FURNISHINGS PRIVATE LIMITED PLOT NO 676, PHASE-II, HSIIDC BARHI, SONIPAT	CUSHIONS	GREEN	3	0	29/12/2023 - 31/12/2036
248	VARDHMAN PACK SOLUTIONS Plot no 160, Phase-I, HSIIDC Barhi, Sonipat, Haryana	FLEXIBLE PACKING POLYBAG (VIRGIN) PLASTIC GRANULES (REPROCESSED)	Orange	0.5	0	01/01/2024 - 31/03/2033

249	HARSHA INDUSTRIES PLOT NO 522B PH II HSIIDC BARHI	POWER CORD	Orange	2.5	0	09/01/2024 - 31/03/2028
250	LEADX Plot no 405 HSIIDC PHASE I BARHI SONIPAT	RED OXIDE GREY OXIDE PURE LEAD AND ALLOY LEAD INGOTS	Red	1.5	0	26/02/2024 - 30/09/2028
251	SEASONS TEXTILES LIMITED Plot No 466, Phase-I, HSIIDC Industrial Estate, Barhi, Sonipat	Furnishing Fabric	Green	4	0	11/03/2024 - 31/12/2028
252	PARIDHI INDUSTRIES PLOT NO 23 HSIIDC BARHI SONIPAT	WATER BASE EMULSION/ PRIMER	Orange	2	0	15/05/2024 - 31/03/2026
253	SARTHAK DISPLAY PVT LTD PLOT NO 156 PHASE 1 BARHI SONIPAT	RACKS	Orange	1.5	0	28/05/2024 - 31/03/2029