

COMMITTEE REPORT ON**INSPECTION OF CETP NARODA, AHMEDABAD, GUJARAT**

(As per order of Hon'ble National Green Tribunal (NGT), West Zone Bench dated 05.02.2020 & 29.06.2020 in Original Application NO. 07 of 2020 (Aryavart Foundation through its President Vs. M/s. Naroda Enviro Projects Ltd. [CETP, Naroda]&Ors)

Prepared By



**INDIAN INSTITUTE OF
TECHNOLOGY, GANDHINAGAR**



**GUJARAT POLLUTION
CONTROL BOARD**



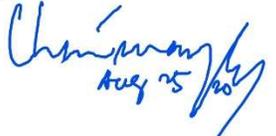
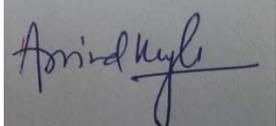
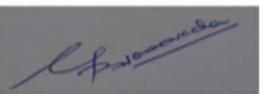
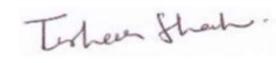
**CENTRAL POLLUTION CONTROL
BOARD**

FOR SUBMISSION TO

HON'BLE NATIONAL GREEN TRIBUNAL (NGT), WEST ZONE BENCH

August 2020

COMMITTEE MEMBERS

Name	Designation	Signature
Prof Chinmay Ghoroi, Professor, Indian Institute of Technology (IIT) Gandhinagar	Member	
Dr. Arvind Kumar Jha, Scientist "D", Central pollution Control Board , Vadodara	Member	
Shri G. B. Vasavada, Vigilance Officer, Gujarat Pollution Control Board, Gandhinagar	Member	
Shri T. B. Shah, Regional Officer, Gujarat Pollution Control Board, Ahmedabad (E)	Member & Nodal Officer	

1.0 BACKGROUND:

M/s Aryavart Foundation through its President filed an original application no. 7/2020 before Hon'ble National Green Tribunal (NGT), Western Bench, Pune (Aryavart Foundation through its President Versus M/s Naroda Enviro Projects Ltd (CETP) &Ors). The matter is related to non-compliance of discharge norms by CETP Naroda and its member industries resulting into pollution of river Sabarmati. After considering the application no. 7/2020, Hon'ble NGT, Principal Bench, New Delhi passed the order on 05.02.2020. Part of the order reads as,

"6. In the meanwhile we deem it necessary to constitute a Committee comprising of;

- i. CPCB*
- ii. GPCB (Vigilance), Gandhinagar*
- iii. State Pollution Control Board (SPCB)*
- iv. Senior Scientist/Engineer (IIM), Ahmadabad*

The State Pollution Control Board shall be the nodal agency.

7. The Committee shall inspect the CETP in question as well as the member Industries and verify on the factual allegations contained in the OA and submit a report."

To comply with the above referred order of Hon'ble Tribunal, Gujarat Pollution Control Board contacted all the concerned offices of the Committee. Out of the four offices, IIM Ahmedabad shown inability to join the Committee due to various reasons. In light of the inability of IIM Ahmedabad to join as Committee member in the matter, an application I. A. 27/2020 has been filed by GPCB. It was mentioned that IIM, Ahmedabad was communicated about participation in the committee. However, The Director, IIM, Ahmedabad informed that due to unavailability of any senior Scientist/Engineer, nobody can be appointed as member in the said committee. Subsequently, Hon'ble NGT, Principal Bench (PB), New Delhi passed the order dated 29.06.2020. Part of the order reads as,

"3. We considered the matter and are of the view that in para 6 at Sr. No. iv, following should be added:

- iv. Senior Scientist/Engineer (IIM, Ahmadabad), or from:*
- (a) IIT, Gandhinagar; or*

(b) Dharmsinh Desai University, Nadiad; or

(c) Lalbhai Dalpatbhai College of Engineering, in order of preference.

4. The Committee is directed to expedite the matter and submit the report.”

In compliance of the order dated 29.06.2020 of Hon’ble NGT (PB), a Committee is constituted by GPCB (**Table-1**) comprising of the following members vide order dt. 24.07.2020 (**Annexure-I**).

Table-1. Members of the Committee

1	Prof. Chinmay Ghoroi,, Professor, Indian Institute of Technology (IIT), Gandhinagar	Member
2	Dr. Arvind Kumar Jha, Scientist “D”, Central pollution Control Board, Vadodara.	Member
3	Shri G. B. Vasavada, Vigilance Officer, Gujarat Pollution Control Board, Gandhinagar.	Member
4	Shri T. B. Shah, Regional Officer, Gujarat Pollution Control Board, Ahmedabad (East)	Member & Nodal officer

1.2 Tasks assigned to the Committee

The committee is assigned with following tasks:

- i. Inspection of the CETP in question namely CETP Naroda
- ii. Inspection of member industries of CETP Naroda
- iii. Verification of factual allegations contained in the OA No. 7/2020 and submit a report.

1.3. Approach of the Committee to complete the assigned task

The Committee held virtual meeting on 28.07.2020 through video conferencing. In this meeting it was decided to collect primary data about CETP members, its type, consent status, existing treatment facility of CETP etc. It was also decided in the meeting that committee will visit CETP on 08.08.2020 as one of the members was in quarantined building due to COVID-19.

The Committee adopted following approach

- i. Visit to CETP Naroda
- ii. Stage-wise waste-water sampling of CETP Naroda

- iii. Visit to the member industries on random basis
- iv. Information/Data collection from CETP operator, industries and GPCB
- v. Meetings and discussions
- vi. Preparation of report

2.0 The CETP Naroda

Gujarat Industrial Development Corporation Naroda industrial area is house of 377 number of industries as per GPCB-XGN software record. These industries are of various natures. Out of the 377 Industries 172 industries are member of Naroda CETP being operated by Naroda Enviro project Ltd (CETP). Out of the 172 member units, 139 units are chemical industries, 13 units are pharmaceutical industries, 12 units are food processing units, 02 units are textile units and 6 units are of other / miscellaneous category. Among 172 CETP member units, 145 are red category small scale units, 08 are red category medium scale unit and 02 are red category large scale unit, 15 are orange category small scale unit, one is orange category medium scale unit and one is large scale orange category units. The remaining 205 units are not generating any wastewater and comprised of mainly Engineering, ceramic, foundry, plastic items manufacturing industries. CETP Naroda is located at plot no 512 to 515, GIDC Naroda, Phase I, Ahmedabad (Coordinates: 23°4' 52.04"N and 72°40'02.68"E) (Figure-1). It was commissioned in the year 1999.



Figure-1. Google Earth Imagery of CETP.

2.1 Effluent collection arrangement from member industries of CETP

The CETP collects effluents from member units through underground pipelines as well as through tankers. Out of 172 member industries, 25 industries are discharging their waste water to CETP through tankers and 22 industries are not sending their waste water to CETP as the units have either no waste water generation or sending it to common MEE/ Spray dryer (Annexure-II). 06 member industries are closed and rest 119 member industries are sending their waste water to CETP through drainage line. As per the GPCB records, member units of CETP discharging their effluents through tankers and sump are given in **Annexure-III and Annexure-IV**.

There are 30 sumps/ drainage chambers at different locations within the Naroda GIDC industrial estate for conveyance of wastewater from CETP member unit to CETP. There is staggered timing for discharge of effluent in sumps for each member units connected with CETP. At present, there is no established mechanism to ensure the inlet quality norm compliance or hydraulic load compliance from member units in the sumps/chambers as there is neither SCADA system installed nor regular monitoring of the effluent quality in these 30 sumps is carried out. Therefore, the wastewater reaching CETP is by and large uncontrolled in terms of quality and quantity.

Apart from the industrial units, CETP also collects sewage for treatment from residential area within and surrounding of GIDC to the tune of 0.7 MLD. Sewage is conveyed through underground pipeline to the CETP.

2.2. Status of Consents to CETP

CETP has Consolidated Consent & Authorization (CC & A) Valid upto 02.08.2021 for 3 MLD waste water and 300 KLD high COD waste water for multiple effect evaporator (MEE) and spray drier (**Annexure-V**). As per the CC&A of CETP, the consented inlet and treated effluent discharge parameter is as given in Table-2.

Table 2. The consented parameter for CETP

Parameter	CETP inlet norms for effluent quantity >50 KLD	CETP inlet norms for effluent quantity < 50 KLD	CETP inlet norms for effluent from Textile industry	CETP Outlet Norms
BOD	500 mg/l	700 mg/l	400 mg/l	30 mg/l
COD	1500 mg/l	2000 mg/l	1000 mg/l	250 mg/l
NH ₃ -N	50 mg/l	50 mg/l	50 mg/l	50 mg/l
TSS	300 mg/l	300 mg/l	300 mg/l	100 mg/l
FDS	2100 mg/l	2100 mg/l	2100 mg/l	2100 mg/l
pH	6.5- 8.5	6.5- 8.5	6.5- 8.5	6.5-8.5
Oil & Grease	10 mg/l	10 mg/l	10 mg/l	10 mg/l

The CETP receives around 2 MLD waste water from chemical industries, 0.5 MLD waste water from food industries other than a unit namely M/s Havmor Ice Cream Private Limited, 0.5 to 0.7 MLD domestic waste water from surrounding of GIDC through underground pipeline and 0.8 to 1.0 MLD from Havmor/ Prem industries is received by CETP totalling to about 4.0 MLD. The consent is granted by GPCB for the 3.0 MLD quantities. Hence about 1 MLD excess wastewater is received by CETP than the granted permission. The informed installed treatment capacity of CETP is about 14 MLD.

2.3 Treatment scheme in CETP

The schematic treatment scheme of CETP is given in Figure-2. The treatment scheme of CETP is given in subsequent paragraphs.

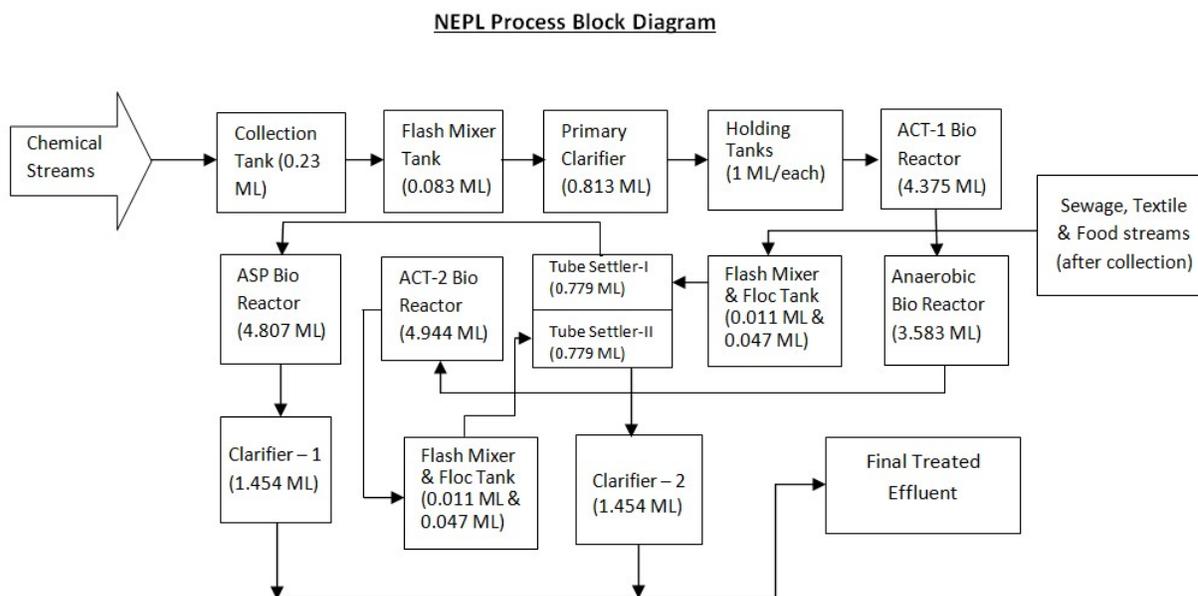


Figure-2: Schematic flow chart of CETP treatment process

CETP has three collection tanks for receiving waste water:

- a) Collection tank No.1 having capacity 230 KL is dedicated for waste water from chemical industries
- b) Collection tank No.2 is having capacity 2.2 ML (million litres) is dedicated for waste water of Prem processors (Textile), Havmor (Food)
- c) Collection tank No.3 is having capacity 1.6 ML is dedicated for waste water of food industries other than Havmor (through tankers) and domestic waste water of GIDC area through pipeline.

Separate treatment system is provided for treatment of waste water from Chemical industries and food/textile/Domestic waste water.

2.3.1. Treatment of wastewater for chemical industry effluent

For waste water of Chemical Industries:

- 1) Collection sump
- 2) Flash Mixer
- 3) Primary clarifier
- 4) Holding tank (3 nos, total capacity 2.6 ML)
- 5) Automated Chemostat Treatment (ACT)-1

- 6) Anaerobic reactor
- 7) ACT- 2
- 8) Post treatment tank for chemical mixing (Flash mixer)
- 9) Tube settler no. 2
- 10) Secondary clarifier no. 2
- 11) Final treated waste water tank (for discharging waste water into Sabarmati river through mega pipe line)

2.3.2 Treatment of wastewater for Food/Textile industries effluent and Domestic waste water

For waste water of Food/Textile industries and Domestic waste water:

- 1) Collection tank (2 nos, 2.2 ML and 1.6 ML capacity)
- 2) Flash Mixer
- 3) Tube settler no. 1
- 4) Around 20 m³ /hr waste water to ACT -2 (mixing with waste water of chemical Industries) and balance to activated sludge process (ASP)
- 5) Secondary clarifier -1

Final treated waste water tank (for discharging waste water into Sabarmati river through mega pipe line).

Waste water from secondary clarifier-1 and clarifier -2 is mixed and collected to treated waste water tank.

2.3.3 Discharge of treated effluent and quality of mega pipeline discharge in river Sabarmati

From the treated wastewater tank, treated waste water is discharged into mega pipeline, which ultimately discharges wastewater to the river Sabarmati. About 23 Km. long Mega pipeline was commissioned in 2001. In Mega pipeline treated waste water of Reliance Industries Ltd (5.6 MLD) and CETP located in GIDC Naroda, Odhav, GVMSAV Limited, and Vatva are discharging effluents. The mega pipeline discharge quality also has impacts from other activities and industrial areas. Around 32 to 35 MLD waste water is discharged from mega pipeline into river Sabarmati. Based on

the hydraulic load of CETP, it may be said that roughly 10% to 12% hydraulic load of mega pipeline is contributed by Naroda CETP. Hence the quality of river Sabarmati in the downstream of mega pipeline has significant impact from its discharge. The quality of waste water discharge in mega pipeline last two years is given at **Annexure- VI**. From the analysis report it is evident that in the year 2019, the BOD concentration of mega pipeline outfall in river Sabarmati ranged from 70 mg/l to 211 mg/l giving an annual average of 139.85 mg/l. During the same period the COD concentration of mega pipeline outfall in river Sabarmati ranged from 309 mg/l to 1108 mg/l giving an annual average of 624.92 mg/l. The NH₃-N concentration in the mega pipeline outfall in river Sabarmati in the year 2019 ranged from 9.58 mg/l to 35.5 mg/l giving an annual average of 20.19 mg/l. In the year 2020, monitoring of mega pipeline is carried out by GPCB at six instances. Except some reduction in COD (range: 186 mg/l to 574 mg/l), the quality of wastewater discharge from mega pipeline to river Sabarmati has not recorded improvement.

The CETP has also provided MEE and spray dryer for treatment of concentrated waste water generated from member units. During inspection, Spray dryer was found in operation.

2.3.4 Sludge management

During inspection, around 1000 MT of sludge observed in storage area, having RCC flooring. The CETP has obtained membership of TSDF site i.e. of SEPPL (now Detox India PvtLud.) & Eco Care Infrastructure Pvt. Ltd for the disposal of hazardous waste. From November 2019 to July 2020 unit has disposed 7492 MT sludge to Eco Care and 3542 MT to Detox India. Large volume of sludge was kept under temporary tarpaulin shed (Photograph-1 &2) on a concreted floor. The adjacent area was paved with paver block. The leachate observed spread in the area over concreted floor and paver blocks. The leachate from the temporary storage area was collected and transferred to CETP inlet. In such a condition, leachate percolation to soil cannot be ruled out. Volute filter press area was also having heaps of sludge (Photograph-3). The area is paved with concreted floor surrounded by paver blocks and hence percolation of leachate in ground cannot be ruled out. Though the google earth imagery is available for the year 2019 (Figure-1). It also shows that similar existed in the year 2019 also.



Photograph-1. CETP sludge storage arrangement



Photograph-2. Leachate from temporary sludge storage area spread on concreted floor.



Photograph-3. A view of sludge and leachate management in volute press area

2.4 Upgradation in CETP in last one year:

As per the information provided by CETP, the original CETP designed parameters and upgradation targets to achieve better quality are given in Table-3. Actions have been initiated by CETP for the improvement in treatability of wastewater. Out of the two phases of improvement, one phase is completed by June 2020 and next phase completion is targeted by June 2021.

Table 3. The target parameter of CETP improvement

Parameter	Inlet value in mg/l	Targeted Outlet quality in mg/l	
		Phase –I of modification	Phase –II of modification
BOD	1200	100	30
COD	4500	<500	<250
NH ₃ -N	50	50	50
TSS	600	<100	<100

As per the information provided by CETP, it has carried out following improvement activities. CETP has carried out retrofitting work in last one year. Biological Petroleum Cleaning Ltd (**BPC**), an Israel based company was engaged to treat wastewater with higher COD and TDS using bioremediation.

Modification was completed in Dec 2019. As informed, outlet COD came down to around 500 mg/l after modification. Now to achieve 250 COD norms, BPC has set up two pilot plants from January 2020. Following modifications were carried out in existing biological treatment facilities.

- Existing Conventional Anaerobic Reactor emptied out and modified to anaerobic hybrid reactor with combine sludge blanket and media with up flow anaerobic sludge blanket.
- Existing Secondary treatment reactor emptied out and converted to ACT (Automated Chemostat Treatment) with complete modification of air supply grid, feeding system and mixing system.
- Existing bio reactor of about 12 ML volume with 2 tube settlers emptied out. Tube settlers were modified for new treatment scheme and replacement of media was carried out. Bio Reactor of 12 ML was partitioned by large wall to make two reactors out of one. First Partition was installed with all necessary equipment to convert the same to ACT and another was installed with all necessary equipment to convert the same to Activated Sludge Process Reactor.
- A facility for chemical treatment precipitation for post treatment after all biological treatment created on site.
- The Activated Carbon filter was evaluated in terms of sizing, chemical backwash requirement and carbon replacement intervals.
- CETP is considering the use of Fenton treatment at various stages of the treatment Process like before ACT 1 bioreactor, After the Anaerobic, final stage of CETP and after the ACT 2 bioreactor. A pilot study is undergoing for the same. It is informed that, NEPL will finalize the modification probably before **December 2020**.

2.5 Monitoring of CETP

2.5.1. Monitoring of CETP during visit by the Committee

During inspection, samples of following CETP treatment unit outlets were collected and analyzed at GPCB Central Laboratory, Gandhinagar. Online monitoring system (OCEMS) provided at the final outlet of CETP is found in operation. The OCEMS readings were pH 7.13, TSS 16 mg/l, COD 376 mg/l, BOD was 19 mg/l during inspection at the final outlet. The sampling locations are given in Table-4.

Table-4. The locations from where the sample is collected during visit

Sample No.	Sampling location	Appearance of sample
1	From Collection Sump	Dark Brown
2	From Holding Tank-1	Greenish Brown
3	From Holding Tank-2	Greenish Brown
4	From Holding Tank-3	Greenish Brown
5	Outlet of ACT-1	Brown
6	From inlet of ACT 2	Brown
7	From outlet of ACT 2	Brown
8	From outlet of Tube settler 1	Light grayish
9	From ASP outlet (i.e. S1 inlet)	Brown
10	From outlet of Secondary clarifier 1 (S-1)	Light Brown
11	From outlet of Secondary clarifier 2 t(S-2)	Brown
12	Final Outlet of CETP(Final Treated waste water)	Brown
13	From Collection tank (2A/B) ,Textile Inlet	Grayish Tint
14	From Collection tank (3(A/B), Food & Sewage Inlet)	Grayish

The analysis results of above tabulated 14 samples are given in Table-5.

Table-5. Analysis results of CETP monitoring during visit

Sample No.	Parameters												
	pH	Colour	TDS	FDS	SS	NH ₃ -N	Cl ⁻	S ²⁻	SO ₄ ²⁻	COD	BOD	O&G	Phenolic Compound
S1	7.6	1200	14576	12660	128	57.23	7500	6.4	1930	867	153	2.6	0.93
S2	7.6	2000	26540	25258	508	96.94	12300	28.8	3980	3485	647	13.6	6.94
S3	7.54	400	28592	26302	418	94.86	13500	152	3880	3525	1284	11.2	16.77
S4	7.57	1200	27344	25836	376	97.38	11800	72	2940	3556	629	3.8	15.65
S5	8.18	2400	29232	--	700	124.77	12100	20	3860	4086	644	2.6	0.37
S6	8.2	3000	26740	--	644	172.87	12500	40	4510	2986	441	6.6	1.74
S7	7.96	3000	26178	--	374	93.46	11000	2	4100	2132	522	4.6	0.56
S8	8	50	1292	--	138	15.62	250	2	104	374	160	2.6	BDL
S9	7.54	40	1570	--	4670	11.98	390	40	100	9893	1433	18.6	0.31
S10	8.43	30	1494	--	38	0.84	410	1.2	122	213	35	1.2	BDL
S11	7.12	1200	15344	--	154	51.07	7250	16	1680	574	111	2.2	BDL
S12	8.06	600	7996	7532	46	26.32	3850	1.6	1255	319	60	1.8	0.34
S13	8.13	20	1140	810	2	7.06	350	1.2	76	205	65	1.2	0.56
S14	7.62	30	1574	1134	184	27.05	260	8.4	80	1002	489	9.6	0.28
CC&A limit	6.5 to 8.5	100	-----	2100	100	50	600	2	1000	250	30	10	1

Note: All values are in mg/l except pH & Colour. **BDL**- Below Detection Limit, TDS means total dissolved solids, FDS means Fixed dissolved solid, SS means suspended solid, NH₃-N means ammoniacal nitrogen, Cl⁻ means chloride, S⁻² means sulphide, SO₄²⁻ means sulphate, COD means chemical oxygen demand, BOD means biochemical oxygen demand, O&G means oil and grease

The analysis results reveal that CETP is receiving significant dilution from sewage and wastewater from textile units but the final outlet is not meeting with GPCB Norms. Value of COD, BOD & TDS in final outlet of CETP were 319 mg/l, 60 mg/l and 7996 mg/l respectively against the permissible limit of 250 mg/l, 30 mg/l and 2100 mg/l (for FDS) respectively. It is to mention that as per amendment in consent condition dated 24.11.2017, FDS is prescribed as one of the monitoring parameter. Experience of various CETP monitoring in Gujarat and Maharashtra shows that FDS concentration values ranges from 80% to 95% of TDS concentration values with most of the values in upper bound i.e. 89% to 95%. In holding tank no. 1, 2 & 3 value of COD were 3485 mg/l, 3525 mg/l and 3556 mg/l respectively, which is higher than highest permissible inlet limit of 2000 mg/l. NH₃-N in holding tank no. 1, 2 & 3 were 96.94 mg/l, 94.86 mg/l and 97.38 mg/l respectively, which is higher than highest permissible inlet limit of 50 mg/l. The BOD in Holding Tank No. 2 was 1284 mg/l which is higher than the highest permissible limit of 700 mg/l. **Therefore, from analysis results, it may be said that the inlet and outlet norm is not complied for the CETP. It is worth to mention that Holding tank stores wastewater after equalisation, polyelectrolyte dosing and settling.** Thereafter from holding tank further treatment takes place. **Hence cumulatively the average daily quality of wastewater intake from member units may be higher than the recorded monitoring results in the holding tanks.**

2.5.2 Performance of CETP in last 5 years

2.5.1.1. CETP inlet concentrations

The CETP is monitored by the GPCB. The details of samples collected from inlet and outlet of the CETP in last five years is given at **Annexure VII**. The annual average and 5 year trend as per data provided by GPCB (**Annexure-VII**) for the CETP inlet is given at Figure- 3 to Figure-5.

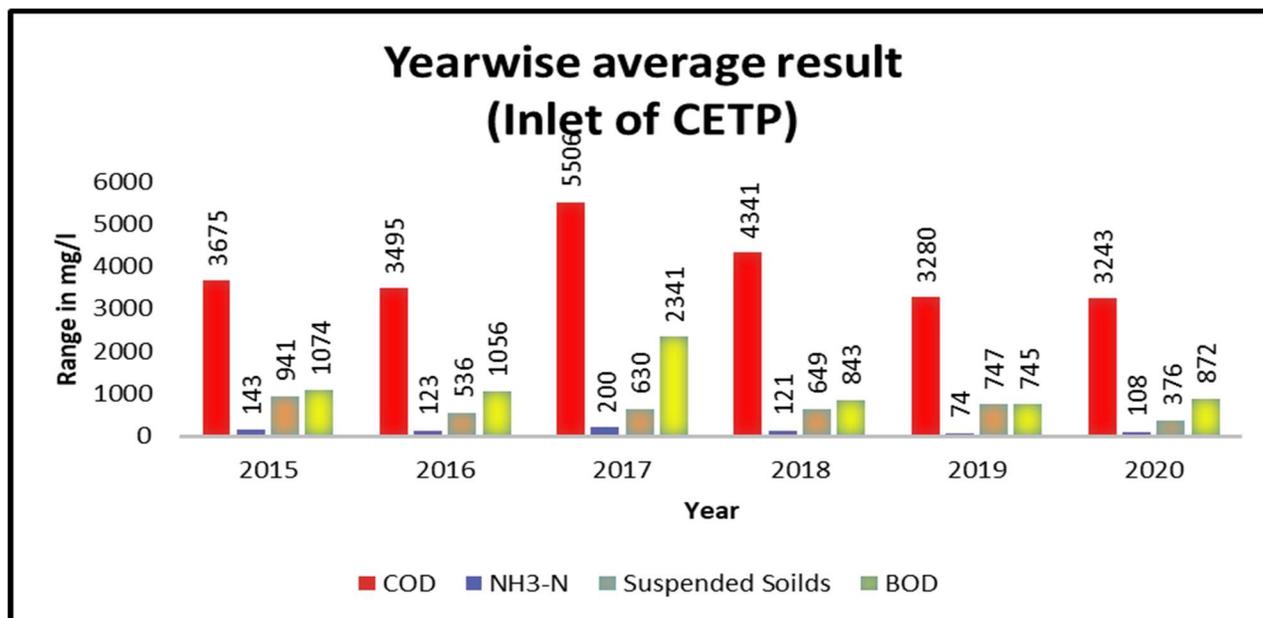


Figure-3. Average inlet quality of CETP during last 5 years

Though the average results of wastewater quality monitoring has inherent nature of normalising the results which varies from realtime results but still indicating non-compliances. However, it may be seen from Figure-3 that CETP inlet average BOD ranged from 745 mg/l to 1074 mg/l, average COD ranged from 3280 mg/l to 5506 mg/l and average NH₃-N ranged from 74 mg/l to 200 mg/l. This clearly indicates yearly average inlet norm is not complied for this CETP in past 5 years. Apart from this, suspended solid inlet standards are also not complied. The last 5 year trend (2015-2020) of CETP inlet quality based on GPCB monitoring results is presented in Figure-4 and Figure-5. The minimum concentration during last 05 years at inlet of CETP for the parameters BOD, COD, pH, TSS and NH₃-N were 285 mg/l, 889 mg/l, 7, 114 mg/l and 01 mg/l respectively. The maximum recorded concentration during last 05 years at inlet of CETP for the parameters BOD, COD, pH, TSS and NH₃-N were 3685 mg/l, 8183 mg/l, 9, 3267 mg/l and 742.2 mg/l respectively. Figure-4 and Figure-5, it may be said that the CETP inlet effluent quality is observed consistently exceeding the prescribed standards in CC&A except sporadic instances for a few parameters.

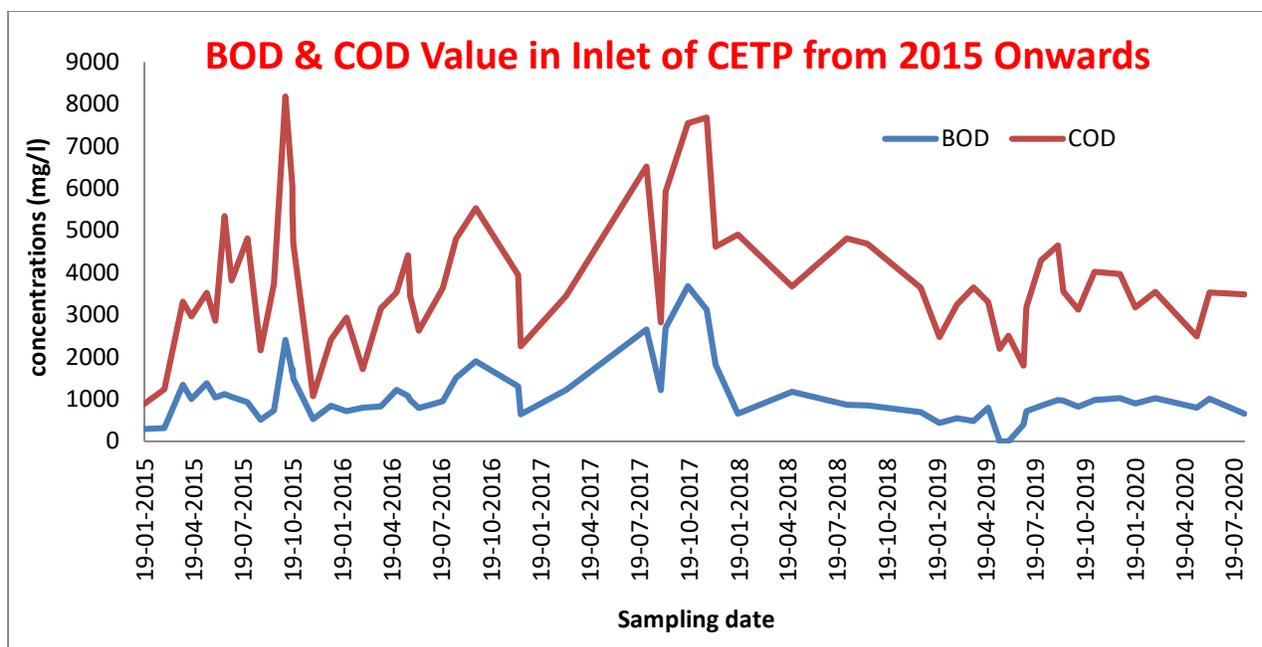


Figure-4. Five year trend of COD and BOD concentrations in CETP inlet effluent

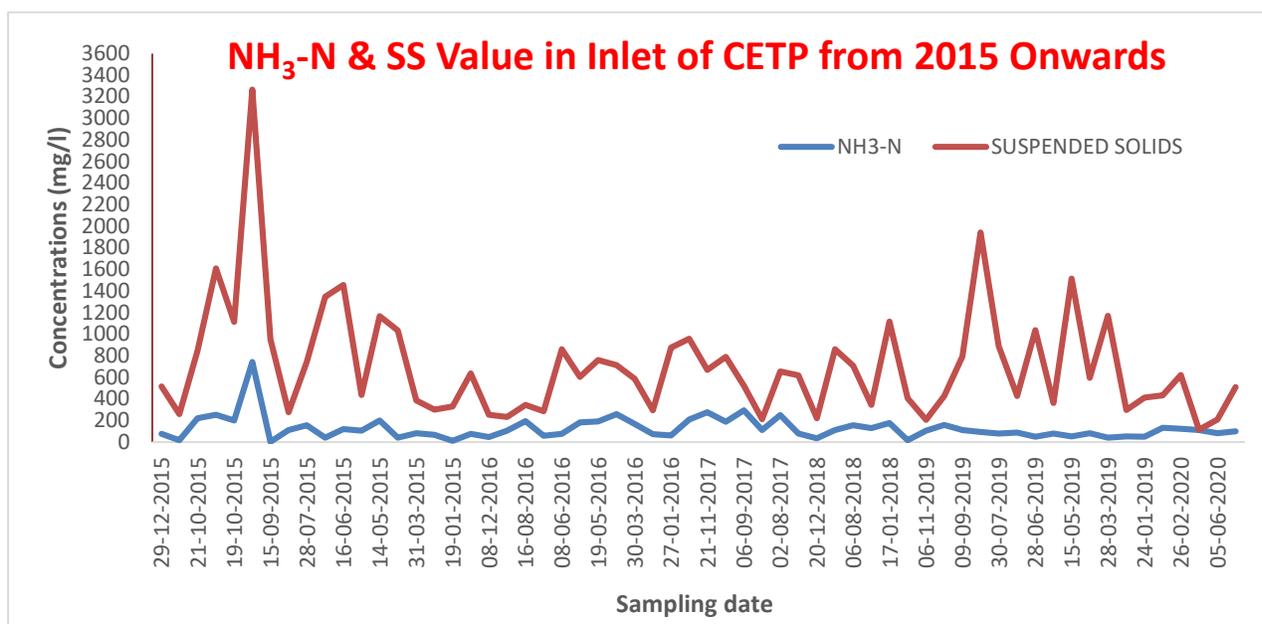


Figure-5. Five year trend of NH₃-N and suspended solid concentrations in CETP inlet effluent

2.5.1.2. CETP outlet (treated effluent) concentrations

As per the available data of 5 years from GPCB is given in **Annexure-VII** and presented in Figure 6 to Figure-8.

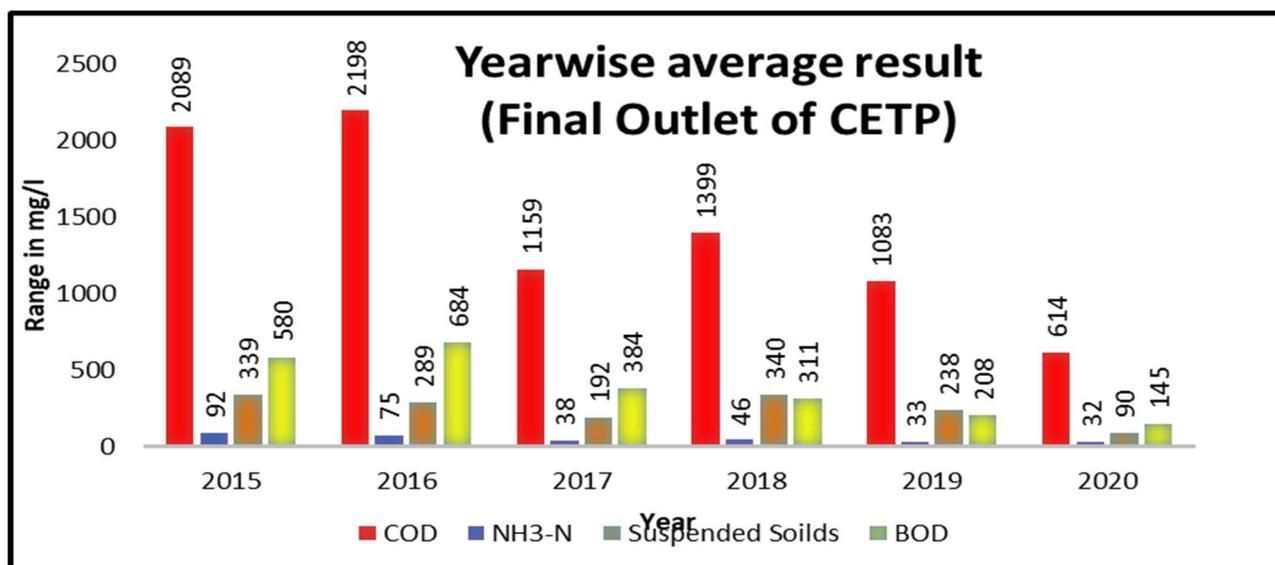


Figure-6. Average outlet quality of CETP during last 5 years

It may be seen from Figure-6 that CETP outlet (discharge to mega pipeline) average BOD ranged from 208 mg/l to 684 mg/l, average COD ranged from 1083 mg/l to 2198 mg/l, average NH₃-N ranged from 33 mg/l to 92 mg/l and average suspended solid ranged from 192 mg/l to 339 mg/l. The last 5 year trend (2015-2020) of CETP treated effluent quality being discharged in mega pipeline based on GPCB monitoring results is presented in Figure-7 and Figure-8.

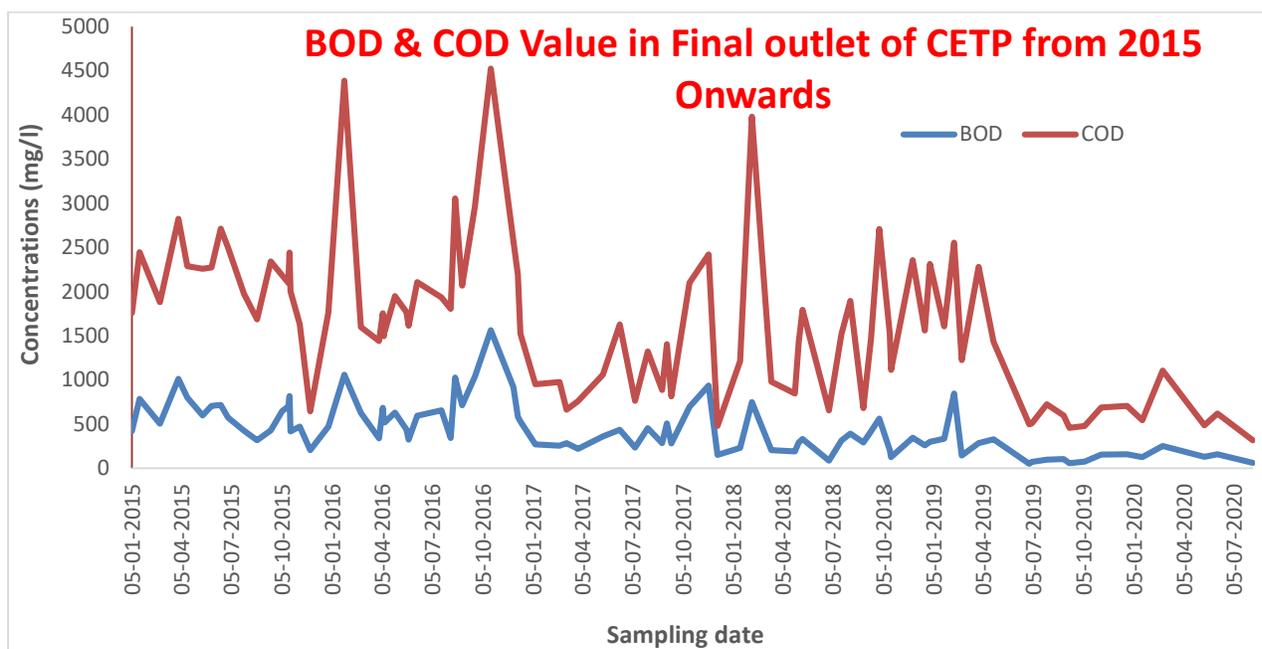


Figure-7. Five year trend of COD and BOD concentrations in CETP treated effluent

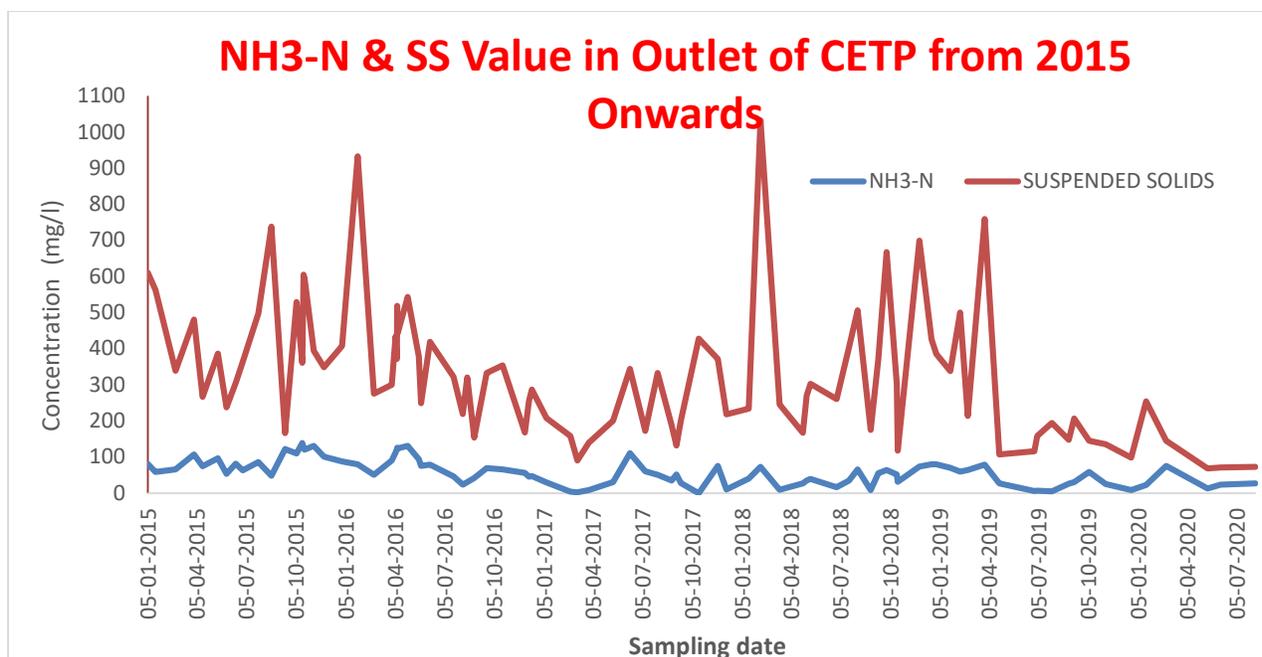


Figure-8. Five year trend of NH₃-N and suspended solid concentrations in CETP treated effluent

The minimum concentration during last 05 years at outlet of CETP for the parameters BOD, COD, pH, TSS and NH₃-N were 52 mg/l, 319 mg/l, 6.56, 46 mg/l and 2.24 mg/l respectively. The maximum recorded concentration during last 05 years at inlet of CETP for the parameters BOD, COD, pH, TSS and NH₃-N were 1565 mg/l, 4525 mg/l, 8.91, 960 mg/l and 138.99 mg/l respectively. From Figure-7 and Figure-8, it may be said that the CETP outlet effluent quality is observed consistently exceeding the prescribed standards in CC&A for the analysed BOD and COD parameters. Other wastewater quality parameters also exceeded the prescribed standards except sporadic instances for few parameters. This clearly indicates that in past 5 years, discharge norm is not achieved for this CETP. During the year 2020, GPCB monitored the CETP. The inlet and outlet monitoring results reveal that in the year 2020, the CETP remain non-compliant for inlet and outlet wastewater quality parameters (**Annexure-VII**).

3.0 Inspection of member industries

The Committee randomly selected few units for understanding the treatability of effluent in the units to achieve the desired inlet quality norm of CETP. Few units were observed non-operational

due to COVID-19 related issues. However, the Committee visited three operational units on 08.08.2020. These units are:

1. Amishi Drugs and chemicals, Plot No.621, 622, GIDC Naroda.
2. Arun Dyestuff Industries, Plot No. K-1/07, GIDC Naroda.
3. Chinmay Chemicals, Shed No. C-1/16, Phase-II, GIDC Naroda.

3.1 Amishi Drugs and chemicals, Naroda.

3.1.1 CC&A, raw materials and product manufactured

The industry is a red category (pharmaceutical) industry. It is involved in manufacturing of various pharmaceutical bulk drugs using raw materials namely M.C.A.(mono chloro acetic acid), liquid ammonia, stearic acid, caustic soda, Solvent, Stearyl Alcohol, sulphadiazine, caustic flakes, acids. The product manufactured by the unit is given in Table-6. The CC&A of the unit is valid up to 31/12/2024.

Table-6. Active pharmaceutical ingredient manufactured by Amishi Drugs and Chemicals

Sr.No.	Product	Quantity
1	Magnesium stearate	40MT/M
2.	Sodium starch glycolate	77MT/M
3.	Die press starch	10MT/M
4.	Sodium carboxyl methyl cellulose	30MT/M
5.	Croscarmellose sodium	30MT/M
6.	Calcium carboxyl methyl cellulose	2MT/M
7.	Micro crystalline cellulose powder	60MT/M
8.	Silver sulfadiazine	5MT/M
9.	Povidone iodine	5MT/M

3.1.2. Effluent management

The consented water consumption of the unit is 121.2 Kilo litre per day (KLPD). The actual water consumption as per the environment statement for the year 2019 is 130.3 KLPD which is higher than the permitted quantity. The unit segregates high COD and Low COD stream of effluents. High COD effluents are managed through captive multi-effect evaporator followed by Agitated thin film

drier and low strength COD is treated in ETP before discharge to CETP. The schematic flowchart of the effluent treatment system of the unit is as follows:

Raw Effluent Collection Sump → Equalization cum Neutralization Tank → Primary settling tank → Primary Clarifier → Aeration tank → Secondary Clarifier → Filter press → Treated water storage tank → partly discharged to CETP and partly in the MEE provided if the effluent is excess than permitted discharge quantity.

Only aerator of the unit was operational. The industry personnel informed that depending on effluent collection, the ETP is batch-wise operated.

3.1.3. Monitoring results

The Committee took samples of ETP during visit and the samples were analysed at GPCB, Gandhinagar. The monitoring results are given in Table-7. The sampling of aeration tank wastewater is also taken in light of apparently non-functional ETP. The aeration tank wastewater is taken after settling of biomass.

Table 7. ETP monitoring results

Location	Parameters (All parameters are expressed in mg/l except pH)								
	pH	SS	TDS	BOD	COD	NH ₃ -N	Cl ⁻	SO ₄ ⁻²	O & G
Collection tank	10.3 2	420	4762	166	595	8.51	1350	857	10.60
Aeration tank	--	68	--	12	65	--	--	--	--
Final outlet of ETP	7.72	72	5194	17	80	4.31	2450	239	1.20
CETP inlet norm	6.5-8.5	300	-----	700	2000	50	-	-	10

From the analysis result it can be seen that the unit is apparently non-compliant in terms of CETP inlet parameter namely FDS. It is worth mentioning that Primary clarifier was completely empty and secondary clarifier was also not working. In such a situation, **COD reduction upto about 90% in aeration tank is highly unlikely.**

Last one year monitoring results of GPCB data base reflects that the unit is compliant for CETP inlet norms (Table-8).

Table-8. ETP monitoring results as per GPCB visit

Date	BOD(mg/l)	COD(mg/l)	pH	NH ₃ - N (mg/l)	SS(mg/l)
Permissible limit (CETP inlet norms)	700	2000	6.5 to 8.5	50	300
19/02/2020	83	160	7.60	26.71	38
05/12/2019	161	586	7.65	15.51	365
04/08/2019	78	152	7.04	26.99	52

3.1.4 Observations

- No proper display board was observed outside the main gate reflecting the consent conditions.
- The manufacturing process and Agitated Thin Film Drier of the unit was operational but most of the components of ETP was non-operational.
- The unit is a pharmaceutical unit having membership of CETP. But the unit has not provided PTZ camera as per the requirement as online monitoring system. However, the unit has provided flow meter in CETP discharge line.
- Large volume of sludge and ATFD generated salt was haphazardly stored inside the premises in a covered shed. However, there was no proper provision for leachate management which resulted in abandoning of leachate on nearby ground.
- Large amount of recovered solvents were stored on ground floor near ATFD but their temporary marking has been done using chalk.
- Some of the unidentified drums having aliquots were stored in ETP area.

3.1.5 Some photographs taken during visit



Photograph-1. A view of empty settling Tank	Photograph2. A view of non-operational Secondary clarifier
	
Photograph3. A view of clear aeration tank wastewater after partial settling	Photograph-4. A view of hazardous waste storage shed and abandoned leachate on ground covered with soil and dirt

3.2 Arun Dye stuff Industries, Plot no K-1/07, Phase 2, GIDC Naroda, Ahmedabad.

3.2.1 CC&A, raw materials and product manufactured

The industry is a red category (Dye and dye intermediate) industry. It is involved in manufacturing of various dyes belongs to Group 1 (Direct Dyes, Acid Dyes, Reactive Dyes, Mordant Dyes), Fluorescent Whiteners & Azo Pigment using Vinyl Sulphone, H acid, K Acid, MUA, Soda ash, Ammonia, Sodium Nitrate, Sodium Naphionate. The CC&A of the unit is valid up to 30/06/2024 for the manufacturing of 1.5 MT dyes and dye intermediates. The unit is a small-scale unit.

3.2.2. Effluent management

The consented water consumption of the unit is 3.0 KLPD. The actual water consumption as per the environment statement for the year 2019 is 2.7 KLPD which is within the permitted quantity. The schematic flowchart of the effluent treatment system of the unit is as follows:

Collection cum Equalization pit → Neutralization Tank (Syntex PVC tank) → Filter press → Sand & Carbon Filter → Final Treated Storage tank.

The unit has provided two sludge drying bed but since it is inside a covered shed, it is difficult to say that sludge drying bed functions as desired. ETP was non-operational during visit.

3.2.3. Monitoring results

The Committee took samples of stored treated wastewater during visit and the samples were analysed at GPCB, Gandhinagar. The monitoring results are given in Table-9.

Table 9. ETP monitoring results

Location	Parameters (All parameters expressed in mg/l except pH.								
	pH	SS	TDS	BOD	COD	NH ₃ -N	Cl ⁻¹	SO ₄ ⁻²	O & G
From treated waste water holding tank	8.40	134	12152	47	249	5.21	5050	2290	1.40
CETP inlet norm	6.5-8.5	300	-----	700	2000	50	-	-	10

From the analysis result it can be seen that the unit is apparently non-compliant in terms of CETP inlet parameter namely FDS. ETP was non-functional during the visit.

Last one year monitoring results of GPCB data base reflects that the unit is compliant for CETP inlet norms (Table-10).

Table-10. ETP monitoring results as per GPCB visit

Date	BOD(mg/L)	COD(mg/L)	pH	NH ₃ -N (mg/L)	SS(mg/L)
Permissible limit (CETP inlet norms)	700	2000	6.5 to 8.5	50	300
20/06/2019	11	65	8.19	3.92	16
06/06/2019	07	55	8.01	31.36	04

3.2.4 Observations

- No proper display board was observed outside the main gate reflecting the consent conditions.
- Only the fire-wood fuelled boiler was observed hot but entire plant was shut down. Therefore, the plant was apparently running during forenoon on the day of visit.

- The unit is a dyeing unit having membership of CETP. But the unit has not provided PTZ camera and flowmeter as per the requirement as online monitoring system.
- About 200 kg sludge was haphazardly stored within the ETP area.
- Housekeeping arrangement inside ETP area was unsatisfactory.

3.2.5 Photograph taken during the visit



Photograph-1. A view of ETP

3.3 Chinmay Chemicals, Shed no C-1/16, Phase 2, GIDC Naroda, Ahmedabad.

3.3.1 CC&A, raw materials and product manufactured

The industry is a red category (Dye and dye intermediate) industry. It is involved in manufacturing of Blue B base dye and blending of S.O. dyes using Methanol, caustic flakes, diclone, sulphuric acid, S.O Dyes. The CC&A of the unit is valid up to CCA valid up to 08/10/2022 for the manufacturing of 1.6 MT Blue B base and blending of 150 MT/month of SO dyes.

3.3.2. Effluent management

The consented water consumption of the unit is 5.2 KLPD. The actual water consumption as per the environment statement for the year 2019 is also 5.2 KLPD which is within the permitted quantity. The unit segregates high COD and low COD streams. The high COD wastewater is collected and disposed by sending to common MEE. The low COD stream is treated and disposed to CETP. The schematic flowchart of the low COD stream effluent treatment system of the unit is as follows:

Collection cum-Neutralization Tank (02 Nos.) → Holding Tank → Pressure Sand Filter → Activated Carbon Filter, → Final Holding Tank → CETP through pipeline

The unit has provided filter press for sludge. ETP was operational during visit.

3.3.3. Monitoring results

The Committee took samples of stored treated water during visit and the samples were analysed at GPCB, Gandhinagar. The monitoring results are given in Table-11.

Table 11. ETP monitoring results

Location	Parameters (All parameters are expressed in mg/l except pH)								
	pH	SS	TDS	BOD	COD	NH ₃ -N	Cl ⁻	SO ₄ ⁻²	O&G
From collection tank	8.16	300	11676	399	1918	54.04	6500	587	5.20
From treated waste water holding tank	8.75	60	32620	431	2192	16.86	15750	1070	17.40
CETP inlet norm	6.5-8.5	300	-----	700	2000	50	-	-	10

From the analysis result it can be seen that the unit is non-compliant in terms of CETP inlet parameter namely COD and O&G and also apparently for FDS.

Last one year monitoring results of GPCB data base reflects that the unit is compliant for CETP inlet norms (Table-12).

Table-12. ETP monitoring results as per GPCB visit

Date	BOD(mg/L)	COD(mg/L)	pH	NH ₃ -N(mg/L)	SS(mg/L)
Permissible limit (CETP inlet norms)	700	2000	6.5 to 8.5	50	300
13/03/2020	210	1005	11.98	9.74	248
06/05/2019	14	73	7.97	2.53	40

3.3.4 Observations

- No proper display board was observed outside the main gate reflecting the consent conditions.
- The plant was operational during visit.
- The unit is a dyeing unit having membership of CETP. But the unit has not provided PTZ camera and flowmeter as per the requirement as online monitoring system.
- The housekeeping in the entire premises was poor and manufacturing area was observed having spillages of effluent.

3.3.5 Photograph taken during the visit



Photograph-1. A view of housekeeping in manufacturing unit where wastewater is spread all around

3.4. GPCB monitoring results of past two years for CETP member industries.

The past two years monitoring results of CETP member is given in **Annexure-VIII** (Units discharging through pipelines to CETP) and **Annexure-IX** (Units discharging through tankers to CETP). From the analysis results of sampling carried out by GPCB to 120 units during 2018 to till date, it is observed that 18 units remained compliant in terms of total dissolved solid inlet standard of CETP and 102 units exceeded the inlet norm of 2100 mg/l at one or more instances. In terms of organic parameters namely BOD, COD and $\text{NH}_3\text{-N}$, 24 units were observed non-compliant by GPCB for one or other parameters. The list of non-compliant industry in terms of BOD, COD and $\text{NH}_3\text{-N}$ is attached as **Annexure-X**. From the records and committee visit details, it is evident that several member units are known non-compliant units for CETP inlet norms.

4.0 Conclusion

It is clear that CETP is receiving higher wastewater quantity than permitted in the CC&A. The mismanagement of sludge within the CETP is also observed. The CETP and several member units are non-compliant in terms of waste water discharge quality. Though the CETP has taken initiative for improvement, monitoring data of past five years shows that CETP is consistent in violation of their discharge norms. There is no established mechanism to control the quality of wastewater from member units. The Committee also concludes that though the mega pipeline receives effluents from many other activities/ units impacting the Sabarmati river water quality, the Naroda CETP and its member units are also contributor for deterioration of river water quality due to failure in achieving the stipulated regulatory norms. Therefore, the committee recommends that CETP and its defaulting member units should take following steps for improvement.

- a. The CETP and member units should meet their discharge norms for wastewater by augmenting their wastewater treatment system.
- b. The CETP should submit time bound action plan for improvement in waste water collection and treatment to achieve regulatory compliance.
- c. CETP should establish a mechanism for monitoring of effluent quality of each waste-water tanker received for treatment in CETP (except for MEE/spray drier), monitor the effluent of member units/ each sump for hydraulic load and effluent quality and mechanism should be established to address the non-compliance by sharing the defaulting unit list with GPCB on regular basis.
- d. The CETP should control spillages and leachates not only in CETP but also in MEE and spray drier area.
- e. CETP should immediately construct proper sludge storage shed with leachate management facility and dispose the accumulated sludge on priority.
- f. The CETP and its member units should take all necessary measures for removal of colour in effluent.
- g. A mechanism should be established by CETP after completion of its augmentation plan to review the overall operational effectiveness of its systems by engaging independent expert of national repute by critically auditing the existing mechanism and system and to suggest

any improvements required to meet the norms. This is especially needed as even after receiving lean effluents from textile units and sewage, the CETP has not reached to its desired performance.

- h. CETP to formulate mechanism to ensure the inlet quality norm compliance and hydraulic load compliance from member units in the sumps/chambers through suitable system such as SCADA system.
- i. Henceforth FDS should be monitored at outlet of member units, inlet of CETP, outlet of CETP and outfall of mega pipeline in Sabarmati river along with other consented parameters.

ANNEXURE-I



GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN

Sector-10-A, Gandhinagar 382 010

Phone : (079) 23222425

(079) 23232152

Fax : (079) 23232156

Website : www.gpcb.gov.in

OFFICE ORDER

No. GPCB/LGL/NGT/ABD/188/૪૨૭

Date : 24/07/2020

Sub: Constitution of a Committee to inspect the CETP of M/s. Naroda Enviro Projects Ltd. (CETP) & Member Industries and verify on the factual allegations contained in the O.A. No. 7 of 2020, Aryavart Foundation through its President Vs M/s. Naroda Enviro Projects Ltd. (CETP) & Ors and submit a report.

The Hon'ble National Green Tribunal, Principal Bench: New Delhi in the matter of Original Application No 7 of 2020 (Aryavart Foundation through its President Vs M/s. Naroda Enviro Projects Ltd. (CETP) & Ors) has directed vide its order on 05.02.2020 & 29.02.2020 as under;

- (i) "3....In the meanwhile we deem it necessary to constitute a Committee comprising of;
- CPCB
 - GPCB (Vigilance), Gandhinagar
 - State Pollution Control Board (SPCB)
 - Senior Scientist/Engineer (IIM, Ahmadabad), or from:
 - IIT, Gandhinagar; or
 - Dharmsinh Desai University, Nadiad; or
 - Lalbhai Dalpatbhai College of Engineering, in order of preference.
- The State Pollution Control Board shall be nodal agency.
- (ii) 4. The Committee is directed to expedite the matter and submit the report.
- (iii) 7. The Committee shall inspect the CETP in question as well as the member Industries and verify on the factual allegations contained in the O.A. and submit a report.
- (iv) 5. Let the report be submitted by the Committee by e-mail at judicialngt@gov.in preferably in the form of searchable PDF/OCR support PDF and not in the form of image PDF. Report be submitted within six weeks."

In compliance to the aforesaid order of Hon'ble NGT, Principal Bench, New Delhi, a Committee is constituted herewith comprising the following members:

1.	Dr. Arvind Kumar Jha, Scientist "D", Central Pollution Control Board Vadodara	Member
2.	Prof. Chinmay Ghoroi, Associate Professor, Indian Institute of Technology (IIT), Gandhinagar	Member
3.	Shri G.B.Vasavada Vigilance Officer, Gujarat Pollution Control Board, Gandhinagar	Member
4.	Shri T.B Shah Regional Officer, Regional Office, Gujarat Pollution Control Board, Ahmedabad (East)	Member & Nodal Officer



Terms of Reference (TOR) of the Committee:

1. The Committee will carry out tasks in accordance with the directions/orders passed by the Hon'ble National Green Tribunal. Principal Bench. New Delhi (Through Video Conferencing), in the matter of Original Application No. 7 of 2020 (Aryavart Foundation through its President v/s M/s. Naroda Enviro Projects Ltd. (CETP) & Others).
2. The name mentioned as a committee member is by virtue of post, in case of retirement or transfer, officer appointed on the post will be consider as a committee member

Tenure of the Committee:

Tenure of the Committee will be till execution of the order passed by Hon'ble NGT is complete.

Reimbursement of TA/DA and sitting fee:

The following fee, in accordance with the order dated 20/4/2017 of Hon ble NGT, Principal Bench New Delhi in the matter of O.A No. 24 of 2011, would be paid:

- i. The Chairman/Expert Members, whether in service or retired or are operating as consultant independently:
 - a) Chairman of the Committees would be paid a sum of 5,500/- per meeting.
 - b) Non-official Members of the Committees would be paid a sum of 5,000/- per meeting.
- ii. Members who are retired and are not presently working in any Government organization or institute, would be termed as non-official members.
- iii. Members of the Committee who are in service either in the Government or institute, bodies, instrumentalities of the State would be paid a sum of 2,500/- per meeting.
- iv. Members who are in service will not be provided any TA/DA once the payment is made in terms of this order.
- v. Members who are in service will not be provided any TA/DA once the payment is made in terms of this order.
- vi. All the members would be provided with car facility for travel. If there are outstation members, they would be paid first class rail fare: economy air fare for coming to Gandhinagar/Ahmedabad or the place where the meetings are fixed.
- vii. Local transportation shall be provided to them free of cost or they would be permitted to engage vehicle taxi. The payment of taxi bill shall be reimbursed to them immediately on presentation. Members would be entitled to free accommodation in the State/Central guest house or any other guest house provided by the Government or will be eligible for reimbursement of such Govt. guest house charges.
- viii. All the secretarial services would be provided to them and if they are required to incur expenses for the secretarial services, the same shall be reimbursed to them.

The payment shall be made/reimbursed against the receipt of claim in accordance with rules.

(A.V.SHAH)
Member Secretary

**GUJARAT POLLUTION CONTROL BOARD**

PARYAVARAN BHAVAN

Sector-10-A, **Gandhinagar** 382 010

Phone : (079) 23222425

(079) 23232152

Fax : (079) 23232156

Website : www.gpcb.gov.in**Copy To:**

1. All members of committee (list enclosed)
2. P.S. to the Hon'ble Chairman, GPCB, Gandhinagar
3. P.S. to the Hon'ble Member Secretary, GPCB, Gandhinagar
4. Account Officer , GPCB, Gandhinagar



To,

1. Dr. Arvind Kumar Jha,
Scientist "D"
Central Pollution Control Board
Parivesh Bhavan, Opp- VMC Ward Office No.10,
Subhanpura, Vadodara -390 023
2. Prof. Chinmay Ghoroi,
Associate Professor,
Indian Institute of Technology(IIT), Gandhinagar
Palaj Campus, Village- Simkheda,
Gandhinagar -382 355
3. Shri G.B.Vasavada
Vigilance Officer,
Vigilance Cell,
Gujarat Pollution Control Board,
Parivesh Bhavan, Sector-10 A
Gandhinagar- 382 010
4. Shri T.B Shah
Regional Officer,
Regional Office,
Gujarat Pollution Control Board,
Ahmedabad (East)
Vatva- Ahmedabad

Annexure-II

Table-1. Status of 22 CETP member industries not discharging effluent to CETP

Sr. no	Name of Industry	SSI/MS I/Large Scale	Type of industry	Category (Red/Orange/ Green)	Remarks
1	Kinjal Organics Private Limited, (Unit-II)	Small	Chemical	Red	Common MEE/ spray dryer
2	Mercury Dye Chem Industries	Small	Chemical	Red	No waste water generation
3	Ashok Chemical Industry	Small	Chemical	Red	No waste water generation
4	Encore Natural Polymers Pvt Ltd	Medium	Chemical	Red	No waste water generation
5	Icon Pharma & Surgical	Small	Pharmaceutical	Red	No waste water generation
6	Gayatri Chemical Industries	Small	Chemical	Orange	No waste water generation
7	Maxwell Industry	Small	Chemical	Red	Common MEE / spray dryer
8	Arti chemical	Small	Chemical	Red	No waste water generation
9	Camex Industries	Small	Chemical	Red	No waste water generation
10	Gayatri Dye Chem Industries	Small	Chemical	Red	No waste water generation
11	Bhagwati Intermediates	Small	Chemical	Red	No waste water generation
12	Maruti Dyes & Intermediate	Small	Chemical	Red	No waste water generation
13	Aqua Plus Enterprise (India) Pvt Limited	Small	Pharmaceutical	Orange	No waste water generation
14	Prachin chemicals	Small	Chemical	Red	Common MEE / spray dryer
15	Akash organics	Small	Chemical	Red	No waste water generation
16	G. H. Industry	Small	Misc.	Orange	No waste water generation
17	Nexus Pharmachem Pvt Ltd	Small	Chemical	Red	Common MEE / spray dryer
18	Refinol Resins & Chemicals Ltd	Medium	Chemical	Red	In house evaporation

19	Reliance Rasayan Private Limited	Small	Chemical	Red	Closed
20	Rexisize Rasayan Industries	Small	Chemical	Red	No waste water generation
21	Shree Chlo Chem Industries	Small	Chemical	Red	No waste water generation
22	Shree Krishna Dyestuff Industries	Small	Chemical	Red	Closed

Annexure-III
List of NEPL Tanker Discharge

Sr. No.	PCB ID	Name of units
1	10572	Atul Intermediates
2	13991	Shreeji Krupa Enterprises
3	10751	Bhavani Industries
4	11914	Jayvir Dye chem
5	29822	Parnacell Chemical
6	10106	Aeromatic Dyestuff Industries
7	10075	Acron Pharmaceuticals
8	12388	Maheshraj Chemicals Pvt Ltd
9	12115	Kinjal Organics Pvt. Ltd. (old: Kinjal Chemicals)
10	13131	Pranav Chemicals
11	12293	M.R.Chemical
12	11718	Industrial Chemicals Work
13	12650	Msn Intermediates Ltd
14	10380	Anjani Industries
15	12513	Mediwin Pharmaceuticals
16	12487	Matrushakti Industries
17	13304	Rakesh Chemicals Industries
18	14457	Tirupati Industries
19	10254	Ambica Industries
20	10165	Akash Dyes & Intermediate
21	11766	RAMA POLYCON LTD.
22	11028	Continental Chemicals
23	12478	Mascot Industries
24	34352	Shivam India Plasto Pack
25	14603	Varahi Intermediate

Annexure-IV	
Sr. No.	Name of units
1	Asiatic colour Chem Industries
2	H.L Entrprise
3	Vimal Crop Care P Ltd
4	Dycron Color Chem P Ltd.
5	Asiatic Industries
6	D. P. contractor
7	Pasupati industries
8	Rasranjan Food Products P Ltd
9	Rajiv Udyog
10	Ingersoll Rand (India) Ltd
11	Yashesh industries
12	Akash colours
13	Allwin Industries
14	Rishi Industries
15	Anurag Chemicals
16	Agrawal Dyestuff Industries
17	Dev dyechem Industries
18	Ambica Industries
19	Satyam industries
20	Royal Anodise
21	Mayur dye chem
22	Eta organics
23	Bhagwati industries
24	shah Industries - Unit 1
25	shah Industries - Unit 2
26	Dresser Rand India P .Ltd
27	Smurti Dyeing - NEPL collection -2
28	Havmor Icecream Ltd -NEPL collection -2
29	Krishna Dairy
30	Meghdhanushya Dyestuff
31	Amit Dyestuff Industries
32	Fortune International
33	Alex Organics
34	Akash Enterprise
35	Arunaya Organics Pvt Ltd
36	Samrat namkeen Ltd
37	Tuton Pharmaceuticals
38	Shree Ambica Enterprise
39	Atik Industries
40	Aditya synthetics
41	Veer Dyechem
42	Akash Industries
43	Shreejkrupa Enterprise
44	Aeromax Synthatic Industries
45	Shree Swati Texdyes Pvt .Ltd
46	Shreenath Orgochem Ltd.
47	Anand Dyes & Intermediates
48	Maruti dyestuff
49	Maruti Dyechem Industries
50	Abhinav industries
51	Ekta Enterprise
52	Ankit Industris
53	Pravin Dyechem
54	Arun Dyestuff Industries
55	Alok industries
56	Lalit Dyechem Industries
57	Chinmay Chemicals P.Ltd

58	Sayona colors P. Ltd.
59	Elixir Pharma
60	Sanjay industries
61	Indian Dyestuff Industries
62	Ashwini industries
63	Jain Dairy
64	Mahendra chemicals
65	Keshav Till Factory
66	Neema chemicals
67	Orio sanghai Colour Pvt Ltd
68	Suren Dyechem Industries
69	Mudra Industries
70	Syntho pharma Chemicals
71	Chemie resin
72	Bharat colour industries
73	Alembic Dyechem
74	Ashadeep Industries
75	Rang Tex Industries
76	Legend Industries
77	Prem industries - NEPL collection -3
78	Chamunda Industry
79	Gwalia Sweets
80	Shree Uma Industries
81	Amishi drugs & Chemicals Ltd
82	Ramdoot Enterprise
83	Vital industries
84	Lao More Biscuits P.Ltd
85	Akshay industries
86	Maruti multichem P Ltd
87	Gaurav industries
88	Pacific industries
89	Gayatri Dyechem
90	Shreeji Associates
91	Minal Intermediates
92	Ocean Industries
93	J.J Food Industries
94	Dishman Pharmaceuticals
95	Swastik Industries
96	Ashmita Industries
97	Kumar industries
98	Narayan industries
99	Umiya industries
100	Shiva Chemicals
101	Premprakash industries
102	Vijay Dyechem (NEW NAME: REGENCY COLOR)
103	Parth Enterprise
104	Rootrang Dyestuff
105	Shiv Chem Industries
106	Vijay Industries
107	Shyam Industries
108	Rajesh Dairy Products
109	Halcyon Labs Pvt Ltd
110	Subham Enterprise
111	Om interchem
112	Medicina Lyfe Care (Old Name:Rushabh International)
113	Antico Techniques
114	Makers Laboratories Ltd.
115	Shanti Corporation
116	Shri Krishna Dyestuff
117	United Dyestuff Industries
118	Swastik chmeicals
119	Micro Surface Advance technology

ANNEXURE-V

BY R.P.A.D

CCA-Amendment

NO: GPCB/ABD/ND/CCA-68(8)/ID-12718/ 428792

Date: 24/11/2017

TO,
M/S. NARODA ENVIRO PROJECT LTD,
PLOT NO.522 TO 515, PHASE-I,
GIDC-NARODA,
AHMEDABAD – 382415

SUB: Amendment in Consolidated Consent & Authorization (CC&A) under various Environmental Acts/ Rules – Reg. revision of CETP inlet norms.

REF: 1) CCA order No:- AWH-82420 Date of issue: 07/11/2016 under various Environmental Acts/Rules.

In exercise of the power conferred under section-25 of the Water (Prevention and Control of Pollution) Act-1974, under section-21 of the Air (Prevention and Control of Pollution)-1981 and Authorization under rule 3(c) & 5(5) of the Hazardous Waste (Management, Handling and Trans boundary Movement) Rules-2008 & framed under the Environment (Protection) Act-1986, The Board has granted CCA order No:- AWH-64912 issued vide this office letter no: NO: GPCB/ABD/ND/CCA-68(8)/ID-12718/410633/ dated:27/04/2017, valid up to 02/08/2021.

The Board has right to review and amend the conditions of the said CCA order.

The said CCA order is further amended as below.

1. This order shall be read as CCA-Amendment Order valid up to **02/08/2021**.

Subject to specific condition:

1. **Industry shall manage Solid Wastes generated from CETP as per Solid Waste Management Rules-2016 (solid waste as defined in Rule-3(46)).**
2. The condition No-4.4 and 4.5 of the said CCA order is amended as below:
- 4.4 M/s. Naroda Enviro Project Ltd (CETP) shall receive industrial effluent from member units conforming to CETP inlet norms mentioned below for further treatment and discharge.

CETP shall ensure that there shall be no unauthorized discharge of industrial effluent from their member units.

PARAMETERS	CETP INLET NORMS FOR INDUSTRIAL UNITS HAVING EFFLUENT QUANTITY \geq 50 KLD	CETP INLET NORMS FOR INDUSTRIAL UNITS HAVING EFFLUENT QUANTITY < 50 KLD	CETP INLET NORMS FOR INDUSTRIAL UNITS HAVING EFFLUENT FROM TEXTILE UNITS
pH	6.5 TO 8.5	6.5 TO 8.5	6.5 TO 8.5
Temperature	40 ⁰ C	40 ⁰ C	40 ⁰ C
Colour (Pt.Co.Scale) in units	100 units	100 units	100 units
Suspended Solids	300 mg/L	300 mg/L	300 mg/L
Oil and Grease	10 mg/L	10 mg/L	10 mg/L
Phenolic Compounds	1 mg/L	1 mg/L	1 mg/L
Sulphides	2 mg/L	2 mg/L	2 mg/L
Ammonical Nitrogen	50 mg/L	50 mg/L	50 mg/L
Total Chromium	2 mg/L	2 mg/L	2 mg/L
Hexavalent Chromium	0.1 mg/L	0.1 mg/L	0.1 mg/L
BOD (5 days at 20 ⁰ C)	500 mg/L	700 mg/L	400 mg/L
COD	1500 mg/L	2000 mg/L	1000 mg/L
Fixed Dissolved Solids	2100 mg/L	2100 mg/L	2100 mg/L

3.3.1.1. M/s. Naroda Enviro Project Ltd (CETP), shall operate effluent treatment system efficiently in order to achieve the quality of the treated effluent, from final outlet to mentioned below:

PARAMETERS	OUTLET NORMS
pH	6.5 TO 8.5
Temperature	40 ⁰ C
Colour (Pt.Co.scale)	100 units
Suspended Solids	100 mg/L
Oil and Grease	10 mg/L
Fixed Dissolved Solids	2100 mg/L
Phenolic Compounds	1 mg/L
Sulphides	2.0 mg/L
Ammonical Nitrogen	50 mg/L
Total Chromium	2 mg/L

Hexavalent Chromium	0.1 mg/L
BOD (5 days at 20 ⁰ C)	30 mg/L
COD	250 mg/L
Cyanides	0.2 mg/L
Flourides	2 mg/L
Chlorides	600 mg/L
Sulphate	1000 mg/L
Insecticides/Pesticides	Absent
Total Kjeldahl Nitrogen	100 mg/L
Mercury	0.01 mg/L
Lead	0.1 mg/L
Cadmium	1 mg/L
Copper	3 mg/L
Nickel	3 mg/L
Zinc	5 mg/L
Arsenic	0.2 mg/L
Selenium	0.05 mg/L
Boron	2 mg/L
Bio-Assay Test	90% survival of fish after 96 hours in 100% effluent

3. The rest of the conditions of the above referred CCA order shall remain unchanged. You are directed to comply with these conditions judiciously.

For and on behalf of
Gujarat Pollution Control Board

U.K. Upadhyay
23/11/2018
(Smt. U. K. Upadhyay)
Environmental Engineer

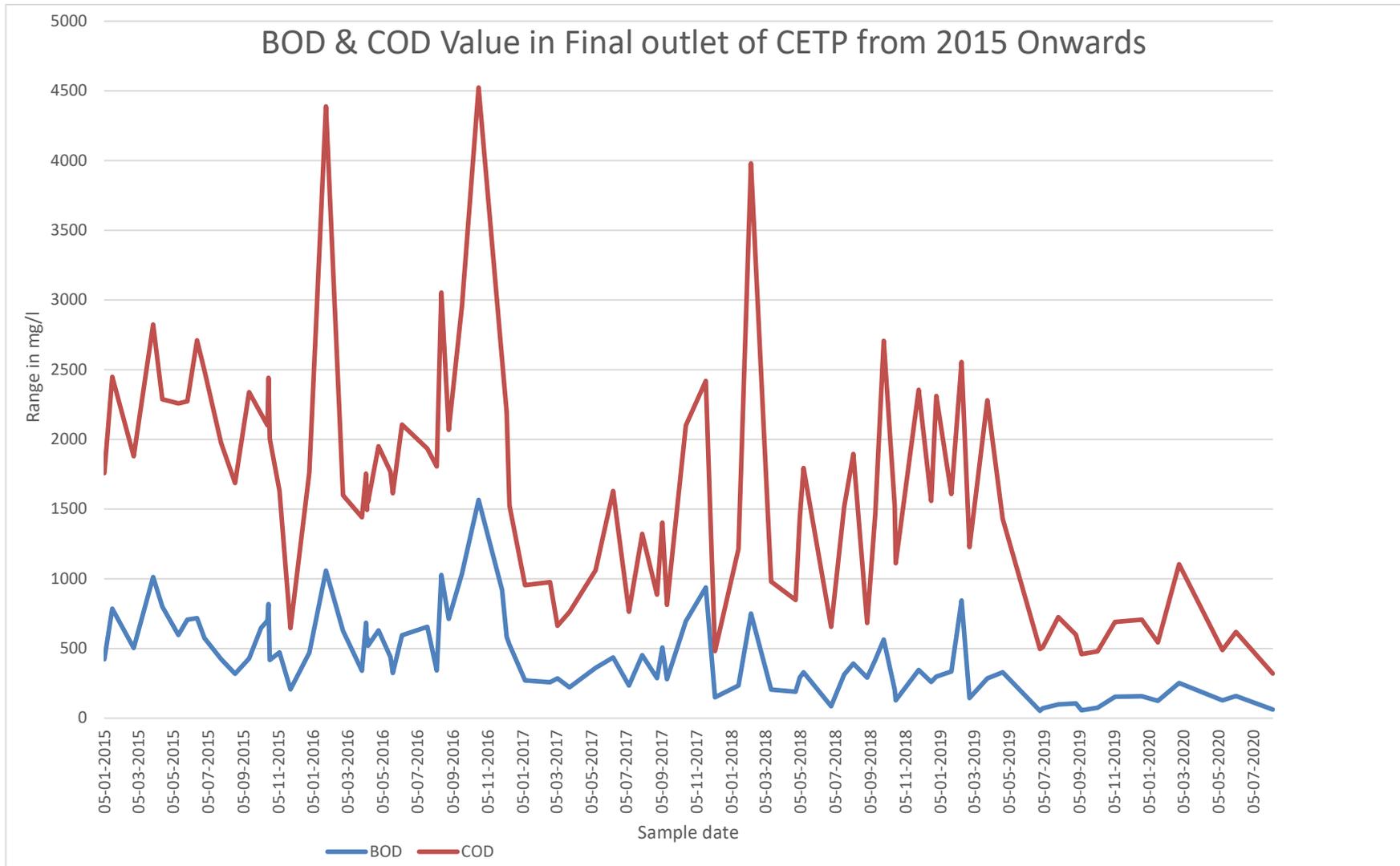
o/c
P. J. Dix
23/11/18

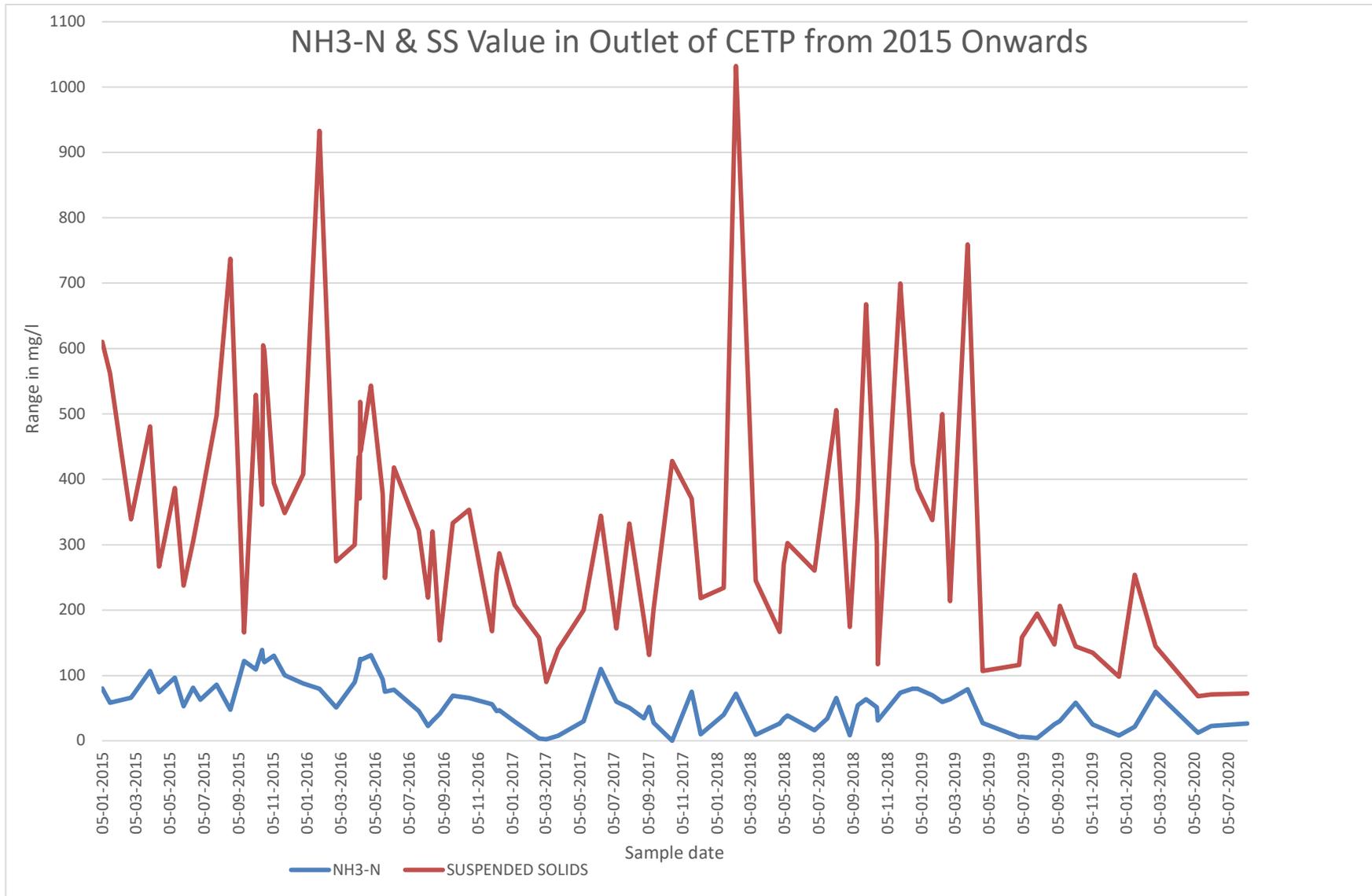
GUJARAT POLLUTION CONTROL BOARD REGIONAL OFFICE -Ahmedabad East NarodaEnviro Project Ltd (CETP), GIDC Naroda, Ahmedabad <u>Result of Final outlet of MEGAPIPELINE</u>						
Year 2019						
Sr No	Samp ID &Dt	BOD	COD	pH	NH3	S.S
1	250186-03/01/2019	129	549	6.86	35	194
2	252232-02/02/2019	174	857	7.45	32.42	248
3	254266-02/03/2019	211	1108	7.16	35.45	142
4	254861-12/03/2019	210	1052	7.38	30.18	307
5	256092-02/04/2019	186	625	7.48	15.29	100
6	258045-02/05/2019	70	400	7.61	14.84	90
7	259965-03/06/2019	117	560	7.55	9.8	340
8	262226-05/07/2019	144	799	7.52	12.1	110
9	264121-05/08/2019	113	623	7.35	10.75	343
10	266031-06/09/2019	125	309	7.37	16.35	140
11	267935-04/10/2019	119	459	7.43	24.36	184
12	269460-05/11/2019	93	318	6.98	9.58	653
13	271518-05/12/2019	127	465	7.19	16.3	238
Year-2020						
14	273455-04/01/2020	156	499	7.06	21.27	212
15	275741-05/02/2020	166	551	7.37	34.22	295
16	277904-04/03/2020	141	447	8.12	38.92	88
17	279192-08/04/2020	67	186	7.55	12.71	56
18	280147-02/05/2020	209	574	7.55	10.3	132
19	281354-03/06/2020	102	503	7.83	18.2	208

GUJARAT POLLUTION CONTROL BOARD REGIONAL OFFICE -Ahmedabad East Naroda Enviro Project Ltd (CETP), GIDC Naroda, Ahmedabad <u>Result of Final outlet of CETP</u>						
Year 2015						
Sr No	Samp ID &Dt	BOD	COD	pH	NH3	S.S
1	176618-29/12/2015	471	1765	7.97	87.78	320
2	174283-26/11/2015	205	646	8.08	100.46	248
3	173671-07/11/2015	472	1632	8.09	130.37	264
4	172492-21/10/2015	417	2003	8.54	120.29	476
5	172400-19/10/2015	818	2440	7.89	125.1	480
6	172362-17/10/2015	700	2100	7.98	138.99	222
7	171584-06/10/2015	648	2182	8.46	109.09	420
8	170091-15/09/2015	427	2339	8.21	122	44
9	168599-21/08/2015	317	1687	8.91	47.65	690
10	167054-28/07/2015	424	1975	8.26	85.68	412
11	165295-29/06/2015	574	2494	8.38	62.94	300
12	164569-16/06/2015	717	2711	8.29	80.97	224
13	163566-30/05/2015	707	2272	8.26	53.2	184
14	162858-14/05/2015	597	2258	8.17	96.55	290
15	161166-16/04/2015	799	2287	7.76	74.37	192
16	159936-31/03/2015	1012	2824	8.01	106.85	374
17	158109-25/02/2015	503	1879	8.02	65.86	273
18	156136-19/01/2015	785	2447	7.97	58.35	504
19	155419-05/01/2015	422	1757	8.44	80.08	530
	Average	580	2089	8.19	92	339
Year 2016						
Sr No	Samp ID &Dt	BOD	COD	pH	NH3	S.S
1	201308-13/12/2016	528	1525	7.88	47.04	240
2	201238-08/12/2016	584	2194	7.45	45.4	210
3	200444-30/11/2016	918	2571	7.44	56	112
4	198400-20/10/2016	1565	4525	7.42	65.52	288
5	196041-21/09/2016	1037	2960	7.87	68.88	264
6	194103-29/08/2016	712	2067	8.24	41.44	112
7	193586-16/08/2016	1026	3053	7.69	30.24	290
8	193111-08/08/2016	342	1806	8.18	22.96	196
9	191911-22/07/2016	655	1934	8.38	45.92	276
10	188931-08/06/2016	595	2107	7.93	78.4	340
11	187829-23/05/2016	324	1612	8.27	75.04	174
12	187559-19/05/2016	438	1767	7.91	94.08	284
13	185855-28/04/2016	629	1950	7.97	131.04	412
14	184891-10/04/2016	519	1552	7.76	123.64	320
15	184854-09/04/2016	570	1661	7.71	125.33	393
16	184966-08/04/2016	526	1494	7.82	120.82	250

17	184710-06/04/2016	684	1753	8.2	111.78	322
18	183757-30/03/2016	340	1440	8.22	89.76	210
19	181237-26/02/2016	625	1598	7.13	50.76	224
20	178660-27/01/2016	1058	4388	7.66	79.8	853
	Average	684	2198	7.86	75	289
Year 2017						
Sr No	Samp ID &Dt	BOD	COD	pH	NH3	SS
1	223103-07/12/2017	151	480	7.69	10.25	208
2	221915-21/11/2017	938	2420	7.58	74.93	296
3	220240-17/10/2017	695	2099	7.64	71..51	428
4	218287-14/09/2017	280	813	7.81	27.5	174
5	217838-06/09/2017	507	1403	7.91	51.6	80
6	216915-28/08/2017	286	885	7.92	34.83	152
7	215535-02/08/2017	452	1322	8.45	50.46	282
8	214110-10/07/2017	233	764	7.87	60.03	112
9	212365-12/06/2017	434	1629	7.99	110	234
10	210699-12/05/2017	360	1060	7.5	29.9	170
11	207948-28/03/2017	221	761	7.9	7.84	132
12	206917-07/03/2017	285	661	7.9	2.24	88
13	205951-22/02/2017	257	975	7.64	3.92	154
14	203125-09/01/2017	270	952	7.95	29.68	178
	Average	384	1159	7.84	38	192
Year 2018						
Sr No	Samp ID &Dt	BOD	COD	pH	NH3	SS
1	249573-29/12/2018	298	2312	7.73	79.69	306
2	249116-20/12/2018	258	1558	7.83	79.58	346
3	247408-28/11/2018	344	2354	8.29	73.42	626
4	245173-19/10/2018	127	1111	7.83	31.25	86
5	245123-17/10/2018	204	1525	7.77	51.4	251
6	243481-28/09/2018	563	2708	7.59	63.67	604
7	242419-13/09/2018	419	1467	7.97	54.54	317
8	241338-30/08/2018	290	682	7.08	8.46	166
9	240066-06/08/2018	391	1894	7.72	65.69	440
10	238852-21/07/2018	312	1515	7.86	34.22	370
11	237086-28/06/2018	85	655	7.77	16.24	244
32	234020-11/05/2018	330	1795	7.88	38.58	264
37	233219-04/05/2018	290	1427	8.08	34.21	236
38	232426-27/04/2018	190	847	7.77	26.6	140
39	229635-15/03/2018	204	978	7.55	9.18	236
40	227381-08/02/2018	750	3981	7.85	72.18	960
41	225872-17/01/2018	232	1214	8.02	40.09	194
	Average	311	1648	7.80	46	340
Year 2019						
Sr No	Samp ID &Dt	BOD	COD	pH	NH3	SS
1	272659-23/12/2019	157	706	8.27	8.1	90

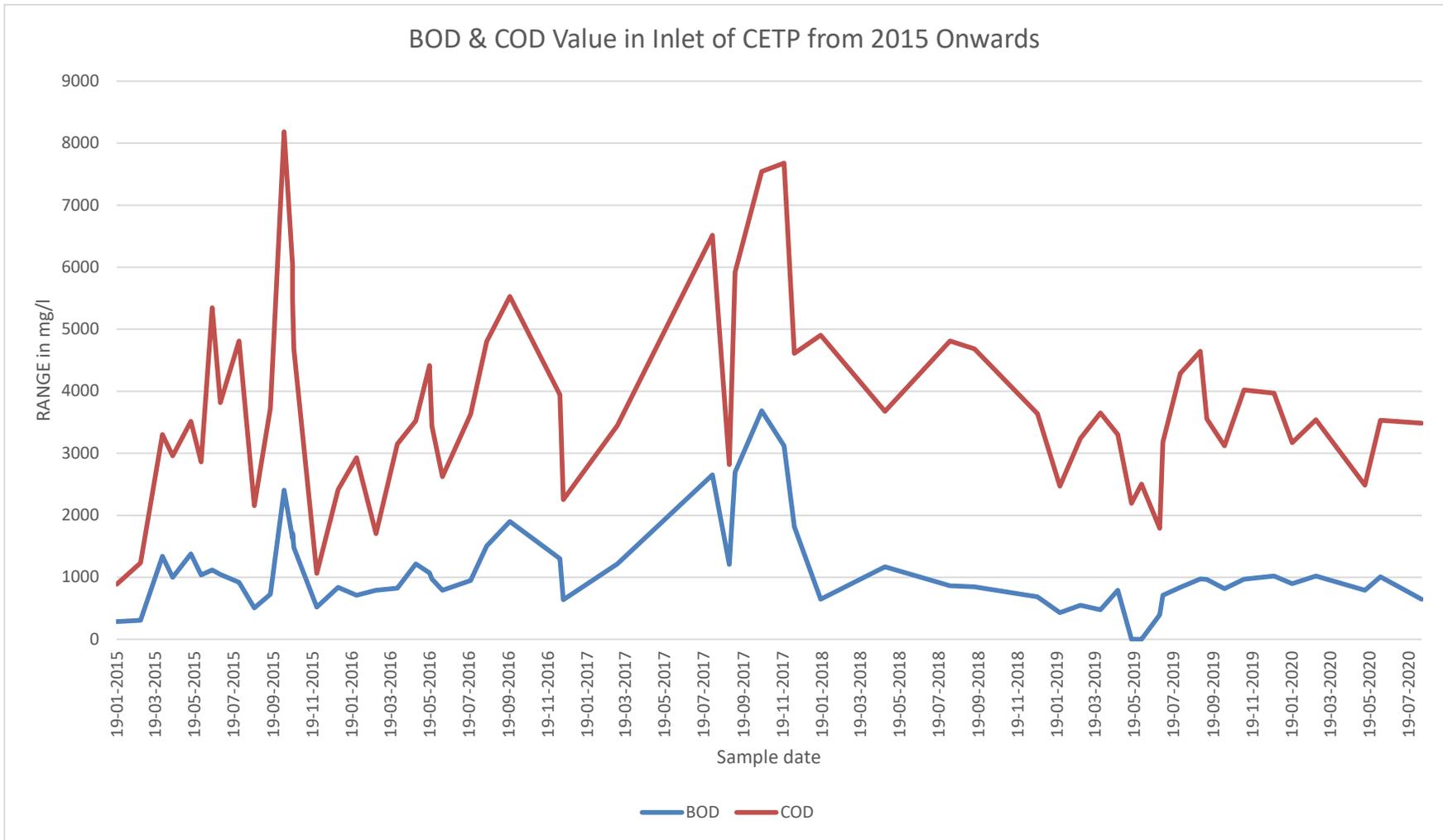
2	269550-06/11/2019	154	689	6.91	24.81	110
3	268239-07/10/2019	75	479	6.77	58.58	86
4	266171-09/09/2019	56	459	7.96	30.24	176
5	265315-30/08/2019	105	598	7.57	25.48	122
6	263532-30/07/2019	99	723	7.66	4.31	190
7	261933-03/07/2019	71	508	7.01	6.16	152
8	261411-28/06/2019	52	496	6.56	5.94	110
11	257477-24/04/2019	329	1430	7.95	27.05	80
12	255734-28/03/2019	285	2280	7.78	78.96	680
13	253729-25/02/2019	143	1226	7.63	63.62	150
14	252944-11/02/2019	845	2554	6.69	59.47	440
15	251740-24/01/2019	335	1607	7.65	69.66	268
	Average	208	1058	7.42	36	204
Year 2020						
Sr No	Date	BOD	COD	pH	NH3	SS
1	20-01-2020	125	542	7.25	21.84	232
2	26-02-2020	252	1105	7.29	74.93	70
3	12-05-2020	128	487	7.29	12.21	56
4	05-06-2020	159	619	7.52	22.9	48
5	08-08-2020	60	319	8.06	26.32	46
	Average	144.8	614.4	7.482	31.64	90.4

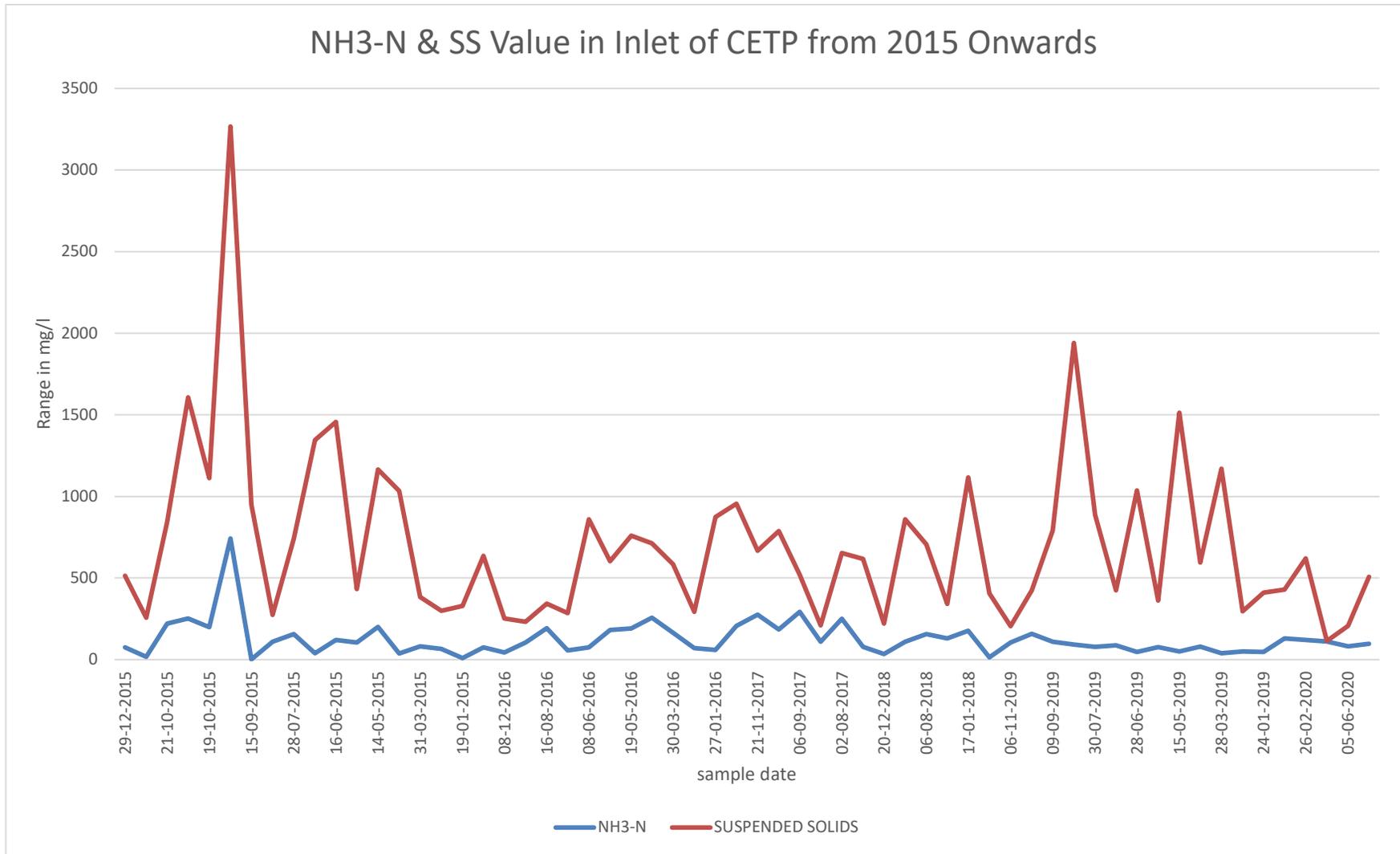




<p style="text-align: center;">GUJARAT POLLUTION CONTROL BOARD REGIONAL OFFICE - AHMEDABAD EAST Naroda Enviro Project Ltd (CETP), GIDC Naroda, Ahmedabad <u>Result of Inlet wastewater to CETP</u></p>						
Year 2015						
Sr No.	Samp ID &Dt	BOD	COD	pH	NH3	S.S
1	176615-29/12/2015	839	2412	7.88	75.24	513
2	174286-26/11/2015	521	1064	8.1	16.74	256
3	172495-21/10/2015	1478	4678	7.87	220.3	844
4	172402-19/10/2015	1627	6044	7.66	250.9	1607
5	172397-19/10/2015	1713	5479	7.17	199.2	1112
6	171590-06/10/2015	2405	8183	7.93	742.9	3267
7	170092-15/09/2015	728	3728	7.63	1.0	950
8	168598-21/08/2015	509	2154	9.0	110.9	274
9	167055-28/07/2015	920	4810	8.0	155.1	740
10	165296-29/06/2015	1048	3815	7.71	39.6	1345
11	164574-16/06/2015	1120	5344	8.15	119.7	1456
12	163567-30/05/2015	1035	2859	7.49	103.6	433
13	162859-14/05/2015	1378	3517	8.57	199.2	1165
14	161165-16/04/2015	998	2958	7.52	38.2	1033
15	159935-31/03/2015	1338	3306	7.26	80.2	384
16	158108-25/02/2015	310	1230	7.59	65.3	298
17	156137-19/01/2015	285	889	7.14	8.4	328
	Average	1074	3675	7.80	143	941
Year 2016						
Sr No.	Samp ID &Dt	BOD	COD	pH	NH3	S.S
1	201309-13/12/2016	637	2254	7.92	75.04	636
2	201234-08/12/2016	1301	3943	7.69	43.68	252
3	196042-21/09/2016	1900	5528	7.54	104.72	232
4	193588-16/08/2016	1506	4802	7.22	193.2	343
5	191912-22/07/2016	946	3627	8.33	56	285
6	188932-08/06/2016	790	2622	7.5	74.48	860
7	187830-23/05/2016	974	3438	8.01	181.44	603
8	187560-19/05/2016	1070	4414	7.66	190.4	760
9	185857-28/04/2016	1217	3524	7.78	257.6	712
10	183758-30/03/2016	822	3148	8.1	164.85	585
11	181238-26/02/2016	792	1707	7.6	71.06	292
12	178661-27/01/2016	713	2928	7.24	59.28	875
	Average	1056	3495	7.72	123	536
Year 2017						

Sr No.	Samp ID &Dt	BOD	COD	pH	NH3	S.S
1	223104-07/12/2017	1815	4612	7.46	206.75	956
2	221916-21/11/2017	3120	7680	7.63	274.96	666
3	220241-17/10/2017	3685	7543	7.49	185.64	788
4	217840-06/09/2017	2693	5922	7.84	292.99	520
5	216922-28/08/2017	1207	2818	8.26	109.92	210
6	215537-02/08/2017	2655	6517	8.12	249.7	653
7	206919-07/03/2017	1215	3449	7.4	78.4	617
	Average	2341	5506	7.74	200	630
Year 2018						
Sr No.	Samp ID &Dt	BOD	COD	pH	NH3	S.S
1	249117-20/12/2018	685	3638	7.48	33.66	220
2	242421-13/09/2018	848	4681	7.52	109.54	860
3	240067-06/08/2018	863	4810	7.6	155.12	707
4	232428-27/04/2018	1170	3675	7.21	128.85	342
5	225875-17/01/2018	648	4902	7.57	176.23	1116
	Average	843	4341	7.48	121	649
Year 2019						
Sr No.	Samp ID &Dt	BOD	COD	pH	NH3	S.S
1	272660-23/12/2019	1020	3966	8.04	14.27	406
2	269551-06/11/2019	973	4018	7.27	104.78	204
3	268241-07/10/2019	815	3121	7.34	157.92	424
4	266173-09/09/2019	963	3550	7.84	110.66	790
5	265314-30/08/2019	975	4647	7.14	92.29	1940
6	263533-30/07/2019	840	4288	7.4	78	888
7	261936-03/07/2019	710	3181	7.5	87.7	424
8	261410-28/06/2019	395	1791	7.39	46.93	1036
9	259758-31/05/2019		2502	7.16	76.32	362
10	258952-15/05/2019		2192	7.62	49.67	1513
11	257478-24/04/2019	793	3300	7	79.13	595
12	255735-28/03/2019	477	3652	7.84	38.92	1170
13	253730-25/02/2019	548	3238	7.74	50.4	296
14	251746-24/01/2019	430	2471	8.11	47.26	410
	Average	745	3280	7.53	74	747
Year 2020						
Sr No.	Date	BOD	COD	pH	NH3	S.S
1	20-01-2020	895	3174	7.88	129.98	430
2	26-02-2020	1018	3540	7.29	120.23	620
3	12-05-2020	792	2484	8.07	111.16	114
4	05-06-2020	1007	3531	7.68	80.98	206
5	08-08-2020	647	3485	7.6	96.94	508
	Average	871.8	3242.8	7.704	107.858	375.6





ANNEXURE-VIII

Sr. No.	PCB ID	Name of units	Date of Monitoring	SSI/MSI/Large Scale	Type of industry	Category (Red/Orange/Green)	Quantity of wastewater to CETP (CCA Qty) (KLD)	pH	TDS	SS	BOD	COD	NH3-N	SO42-	CL-
CETP Inlet norms								6.5-8.5	2100	300	700	2000	50	1000	600
1	10543	Asiatic colour Chem Industries		Medium	Chemicals	Red	115								
			05-06-2020					8.27	2670	46	10	48	1.29	114	1250
			07-10-2019					8.11	2600	10	2	22	1.9	283	1080
			12-07-2019					8.2	2790	14	6	38	1.12	169	1230
			17-10-2018					7.7	6168	44	130	1016	7.39	430	3000
2	12145	H.L Entrprise		Small	Miscellaneous	Red	1								
			01-02-2020					10.47	1200	8	96	232	16.69	124	403
3	14675	Vimal Crop Care P Ltd		Small	Miscellaneous	Red	10.5								
			27-07-2019					6.51	9096	414	20	103	2.52	505	4045
4	11061	D. P. contractor		Small	Chemicals	Red	5.5								
			27-01-2020					8.27	4610	18	141	817	4.14	721	1616
			06-02-2019					8.45	6012	24	127	766	7.78	750	2184
			26-07-2018					8.11	6134	38	344	1466	5.71	621	2150
5	13015	Pasupati industries		Small	Chemicals	Red	2								
			15-06-2020					8.23	6268	54	403	1707	8.57	1201	1900
			29-08-2019					7.16	9310	108	278	1027	10.75	308	4520
			27-08-2018					8.27	8298	132	311	887	5.66	910	3200
6	13293	Rajiv Udyog		Small	Chemicals	Red	4.05								
			02-01-2020					7.35	1738	14	134	481	2.97	395	438
			04-08-2019					7.89	6502	34	41	223	3.3	178	3200
			09-07-2018					8.47	1474	28	7	60	5.94	132	550
7	14603	Varahi intermediates		Small	Chemicals	Red	8								
			28-11-2019					8.16	2112	30	449	1807	27.61	395	560
8	11728	Ingersoll Rand (India) Ltd		Large	Miscellaneous	Red	10								
			14-06-2019					7.33	1684	16	17	50	11.26	576	243
			15-02-2019					7.25	1788	88	35	169	10.53	321	290
9	14768	Yashesh industries		Small	Chemicals	Red	4								
			23-12-2019					8.13	5314	18	88	295	115.86	408	2307
			29-08-2019					7.26	32108	126	1350	3811	9.13	808	15250
			22-05-2019					7.62	3556	8	55	320	13.94	290	1585
			13-03-2019					7.28	14106	14	169	904	403.2	658	6317
10	12392	Akash colours		Small	Chemicals	Red	2.8								
			23-07-2019					7.72	5946	38	338	650	3.25	278	2165
			17-04-2019					7.97	5068	32	116	488	11.54	923	1923
11	10225	Allwin Industries		Small	Chemicals	Red	1.5								
			19-09-2019					8.34	4606	10	47	191	7	612	1579
			07-08-2019					8.34	9728	50	189	789	8.57	448	4410
			06-02-2019					8.57	10402	54	91	490	2.91	562	4800
12	13391	Rishi Industries		Small	Chemicals	Red	0.7								
			23-12-2019					8.31	6686	44	64	210	1.14	622	3070
			20-07-2019					7.71	10886	108	86	217	145.77	581	5600

			06-06-2019					7.73	4356	34	55	212	15.79	477	2144
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13	10413	Anurag Chemicals	13-03-2020	Small	Chemicals	Red	3.5	8.33	2032	8	24	114	2.3	316	734
			20-07-2019					8.14	10882	64	132	602	11.54	561	5010
			14-03-2019					8.05	1344	4	5	39	2.3	188	428
			19-11-2018					8.24	1324	12	4	46	3.42	174	482
14	10117	Agrawal Dyestuff Industries		Small	Chemicals	Red	3								
			17-10-2019					7.44	21374	66	198	1001	1.85	507	10400
			06-02-2019					8.68	1262	20	4	34	1.06	287	345
15	11109	Dev dyechem Industries		Small	Chemicals	Red	8								
			19-02-2020					7.43	10034	54	289	753	12.38	799	4290
			09-01-2019					7.31	11783	276	244	908	29.34	550	7565
			26-11-2018					7.45	4236	1360	40	160	4.93	371	1640
			06-08-2018					7.8	3896	96	35	150	14.78	342	1525
16	10273	Ambica Industries		Small	Chemicals	Red	1.8								
			24-04-2019					7.48	6374	54	124	611	7.95	488	2687
17	13642	Satyam industries		Small	Chemicals	Red	3.4								
			09-09-2019					8.31	1970	60	37	174	5.32	489	500
			06-07-2019					8.31	11822	52	78	418	6.72	2315	5750
18	10170	Royal Anodise		Small	Miscellaneous	Red	2.5								
			18-01-2019					6.98	1490	56	42	119	9.13	452	263
19	12503	Mayur dye chem		Small	Chemicals	Red	3.5								
			19-08-2019					8.25	3274	24	31	178	2.3	185	1550
			20-07-2019					8.13	5685	140	179	689	1.87	502	2330
			16-05-2019					8.42	37158	246	725	1840	5.1	863	20000
20	11265	Eta organics		Small	Chemicals	Red	1.25								
			01-06-2019					7.12	3128	226	85	488	8.4	568	1032
21	10667	Bhagwati industries		Small	Chemicals	Red	0.3								
			29-08-2019					8.08	2286	32	78	342	4.37	496	632
			06-07-2019					8.01	1130	12	3	19	0.9	251	281
22	13683	shah Industries - Unit 1		Small	Chemicals	Red	7								
			15-12-2018					7.9	996	22	14	106	1.74	181	375
23	13684	shah Industries - Unit 2		Small	Chemicals	Red	0.7								
			13-12-2018					8.1	2162	40	177	969	2.63	378	460
			30-10-2018					7.51	11624	84	103	877	18.03	793	5070
24	11196	Dresser Rand India P .Ltd		Large	Miscellaneous	Red	4								
			05-06-2020					9.21	2214	8	17	118	0.73	728	352
			04-09-2019					8.21	1162	10	4	20	2.58	297	263
			18-01-2019					9.02	582	4	6	32	3.7	68	112
			02-07-2018					9.16	2188	12	17	90	0.84	312	674
25	12526	Meghdhanushya Dyestuff		Small	Chemicals	Red	1								
			23-12-2019					8.06	5924	110	59	231	4.65	601	2389
			04-09-2019					8.21	108614	1516	535	4592	12.26	4237	42810
			06-09-2018					8.12	1114	14	4	34	1.18	142	287
26	10325	Amit Dyestuff Industries		Small	Chemicals	Red	1.6								
			16-05-2019					7.94	3946	40	38	213	1.9	2184	590
27	12600	Fortune International		Small	Chemicals	Red	6								
			01-12-2018					7.06	27170	252	271	1141	18.76	804	15300
			09-07-2018					8.02	31966	80	189	1007	37.3	1716	13500
28	13862	Alex Organics		Small	Chemicals	Red	2.2								
			18-11-2019					8.46	5078	16	153	427	3.53	452	1807
29	14286	Arunaya Organics Pvt Ltd		Small	Chemicals	Red	1.3								
			02-10-2019					8.11	2308	24	21	144	3.19	344	849

30	14070	Shree Ambica Enterprise		Small	Chemicals	Red	1								
			15-12-2018					8.01	2404	16	94	550	3.19	221	1200
31	10563	Atik Industries		Small	Chemicals	Red	0.5								
			19-02-2020					7.92	2608	10	102	418	12.32	390	823
			19-08-2019					7.16	2586	68	45	153	3.47	219	1060
32	10092	Aditya synthetics		Small	Chemical	Red	5								
			09-01-2019					7.61	6764	58	117	598	5.1	509	3005
33	10169	Akash Industries		Small	Chemical	Red	2.1								
			09-07-2020					7.78	9950	110	167	770	136.02	467	5500
			13-12-2019					8.01	5560	64	181	396	61.26	480	2255
			12-06-2019					7.72	7002	20	299	935	61.21	349	3100
34	13991	Shreejikrupa Enterprise		Small	Chemical	Red	3								
			12-05-2020					8.74	3764	12	37	242	1.12	238	1685
			15-02-2020					7.85	33428	186	1033	4308	72.13	1201	15305
35	10107	Aeromax Synthatic Industries		Small	Chemical	Red	3								
			12-10-2018					8.53	3576	26	54	183	3.42	231	1650
36	13961	Shree Swati Texdyes Pvt .Ltd		Small	Chemical	Red	2								
			27-01-2020					6.84	13708	78	203	852	4.48	1070	6075
37	14006	Shreenath Orgochem Ltd.		Small	Chemical	Red	7.25								
			10-02-2020					7.97	2436	26	103	382	2.8	524	665
			20-06-2019					8.36	1456	12	11	86	5.6	306	309
			22-03-2019					8.78	1432	12	13	69	0.73	357	304
38	10357	Anand Dyes & Intermediates		Small	Chemical	Red	6.5								
			04-08-2019					7.97	1368	14	17	90	1.9	248	437
			26-11-2018					8.16	1086	4	6	30	1.51	189	277
			19-07-2018					8.6	1732	24	11	78	6.38	520	800
39	11269	Maruti dyestuff		Small	Chemical	Red	3.6								
			06-06-2019					8.18	5350	6	36	217	1.9	672	2212
			05-12-2018					7.85	2026	14	34	127	3.53	185	760
40	12457	Maruti Dyechem Industries		Small	Chemical	Red	2								
			15-06-2020					8.42	1850	86	56	269	2.13	223	700
			27-01-2020					7.47	5424	324	479	2277	23.74	1034	1719
			01-03-2019					7.41	2162	24	19	192	0.45	400	731
41	10052	Abhinav industries		Small	Chemical	Red	1.9								
			17-10-2019					7.87	2170	10	163	704	4.31	575	450
			14-06-2019					7.61	2526	20	74	455	3.3	750	530
			16-03-2019					7.71	22440	82	158	1018	79.8	2157	10940
			19-11-2018					8.1	2022	26	33	133	3.81	367	690
			13-09-2018					7.84	20738	270	228	1437	56.95	702	10990
42	11234	Ekta Enterprise		Small	Chemical	Red	1.1								
			14-06-2019					8.84	7572	22	45	220	2.24	532	3228
			11-07-2018					8.19	5366	66	44	167	4.54	132	2284

43	10386	Ankit Industris		Small	Chemical	Red	3								
			12-07-2019					8.77	1582	12	36	157	1.34	404	360
			16-05-2019					8.32	1424	30	45	169	2.24	456	381
44	13150	Pravin Dyechem		Small	Chemical	Red									
			07-08-2019					7.17	94752	896	455	2255	15.9	1198	48000
			06-08-2018					7.12	18870	146	36	170	13.1	1735	7375
45	10467	Arun Dyestuff Industries		Small	Chemical	Red									
			20-06-2019					8.19	1280	16	11	65	3.92	271	380
			06-06-2019					8.01	1086	4	7	55	31.36	266	292
46	10206	Alok industries		Small	Chemical	Red	3.5								
			19-02-2020					8.24	38230	106	168	890	5.32	1747	17650
			26-06-2019					7.97	8488	22	46	232	3.92	554	4058
			07-04-2019					8.21	10060	62	186	888	7.95	1813	2503
47	12216	Lalit Dyechem Industries		Small	Chemical	Red	0.228								
			19-09-2019					7.41	21978	118	227	996	2.86	1016	9490
			06-09-2018					7.38	27768	192	495	1734	3.81	1032	10590
			06-08-2018					8.24	23558	150	271	1086	4.65	902	11665
48	10996	Chinmay Chemicals P.Ltd		Small	Chemical	Red	3.05								
			13-03-2020					11.98	14552	248	210	1005	9.74	1218	6205
			06-05-2019					7.97	4724	40	14	73	2.53	345	2043
			13-09-2018					8.29	17093	520	275	1125	21.06	400	8200
49	12350	Sayona colors P. Ltd.		Small	Chemical	Red	2.5								
			05-06-2020					9.01	7104	18	275	1314	1.18	450	3070
			10-02-2020					8.35	10136	76	299	1247	1.23	786	4100
50	11248	Elixir Pharma		Medium	Pharmaceuticals	Red	3.5								
			10-02-2020					8.15	1382	10	2	16	1.9	217	348
			30-01-2019					7.34	1778	22	40	103	20.5	205	592
			06-09-2018					7.81	966	6	4	24	1.06	121	289
51	13598	Sanjay industries		Small	Chemical	Red	4								
			27-01-2020					7.82	5430	90	180	911	2.35	714	2026
52	11701	Indian Dyestuff Industries		Small	Chemical	Red	0.6								
			27-01-2020					7.6	1894	120	37	167	6.55	405	546
			10-10-2019					7.61	2798	56	83	258	14.78	544	921
			09-01-2019					7.75	2748	32	37	145	2.07	408	1021
53	10533	Ashwini industries		Small	Chemical	Red	1.5								
			23-07-2019					8.39	7300	36	142	705	7.28	466	3290
			16-05-2019					8.31	2924	22	51	140	10.42	380	1165
54	12378	Mahendra chemicals		Small	Chemical	Red	5								
			23-12-2019					7.7	61634	242	510	1910	39.87	15070	16500
			06-05-2019					7.22	8744	40	342	1200	5.9	2217	2090
			13-03-2019					7.4	9362	24	271	737	7.89	2304	1951
55	12079	Keshav Till Factory		Small	Food	Orange	15								
			05-12-2019					7.98	1400	206	873	1356	3.36	270	286
			15-12-2018					6.96	3715	1346	2455	4758	33.1	912	325

56	12784	Neema chemicals		Small	Chemical	Red	2.2								
			09-07-2020					8.69	8668	30	90	430	2.46	1219	3200
			18-11-2019					8.55	8038	20	142	449	1.85	1468	2560
			20-06-2019					7.92	6076	26	138	480	8.4	321	2770
			16-05-2019					8.93	9532	72	104	458	0.67	1911	2945
			19-10-2018					8.77	5060	20	36	143	3.58	524	1860
57	12921	Orio sanghai Colour Pvt Ltd		Small	Chemical	Red	18.5								
			09-07-2020					8.1	1424	32	7	28	0.62	299	430
			19-08-2019					8.31	1624	12	17	83	2.18	232	545
			14-06-2019					8.81	1120	46	35	115	2.13	332	208
			06-12-2018					8.13	2374	26	16	103	4.42	380	542
			12-10-2018					8.56	944	4	2	8	2.52	165	287
58	14318	Suren Dyechem Industries		Small	Chemical	Red	1.8								
			19-09-2019					8.06	2906	76	98	374	6.16	609	750
			07-02-2019					8.52	9290	120	636	1692	9.02	655	3900
59	12654	Mudra Industries		Small	Chemical	Red	2								
			01-06-2019					7.56	4020	54	50	333	4.76	181	721
60	14371	Syntho pharma Chemicals		Small	Chemical	Red	1.9								
			03-07-2019					7.78	11488	56	300	1677	7.5	1012	5150
			06-12-2018					8.64	6152	52	176	706	8.51	299	3050
61	10986	Chemie resin		Small	Chemical	Red	0.5								
			06-07-2019					7.34	2382	60	71	300	8.85	260	998
62	43758	Bharat colour industries		Small	Chemical	Red	2.5								
			24-04-2019					7.01	42838	254	968	1972	2.58	2479	20130
63	11496	Alembic Dyechem		Small	Chemical	Red	1.2								
			01-03-2019					8.57	1760	104	15	123	70.84	181	509
64	10488	Ashadeep Industries		Small	Chemical	Red	0.5								
			01-06-2019					7.11	17046	36	256	1400	248.08	419	8665
65	13323	Rang Tex Industries		Small	Chemical	Red	3								
			19-02-2020					7.47	24702	108	153	660	6.72	3090	8800
			24-04-2019					7.84	14794	64	208	1034	6.55	2435	5008
			13-08-2018					7.83	13558	202	101	310	6.16	341	6180
66	12243	Legend Industries		Small	Pharmaceuticals	Red	4.365								
			10-12-2019					7.48	3026	28	55	117	2.74	465	1152
			26-07-2019					6.65	9994	238	109	215	4.03	529	4545
			02-07-2019					6.72	11304	48	236	479	5.21	1005	5115
			01-07-2018					6.95	15166	360	520	1333	0.73	1069	6000
67	13156	Prem industries - NEPL collection -3		Medium	Textile	Red	600								
			13-03-2020					7.58	1574	36	121	304	9.86	302	502
			09-01-2019					6.66	1254	38	60	137	5.77	82	584
68	11557	Gwalia Sweets		Small	Chemical	Red	2								
			20-09-2019					4.43	1720	766	4460	5256	20.61	482	300
			19-07-2018					8.25	2968	62	20	74	4.14	721	905
69	13963	Shree Uma Industries		Small	Chemical	Red	9.1								
			02-10-2019					7.49	3668	14	166	364	35.9	872	1090
			27-08-2018					7.88	4740	94	217	750	54.15	342	1875

70	10322	Amishi drugs & Chemicals Ltd		Medium	Pharmaceuticals	Red	3 KLD									
			19-02-2020					7.6	6180	38	83	160	26.71	1009	2065	
			05-12-2019					7.65	3980	365	161	586	15.51	751	1289	
			04-08-2019					7.04	5568	52	78	152	26.99	330	2380	
			07-02-2019					8.31	3282	12	32	64	1.38	191	1402	
			15-10-2018					7.92	8958	256	131	526	90.22	717	3475	
71	13312	Ramdoot Enterprise		Small	Chemicals	Red	12 KLD									
			07-08-2019					8.51	1800	14	5	30	0.9	251	545	
			30-01-2019					7.36	1066	24	5	41	3.98	229	315	
			06-12-2018					8.8	984	6	2	9	1.06	147	197	
72	14725	Vital industries		Small	Chemicals	Red	2.6 KLD									
			07-08-2019					8.13	30832	108	303	1269	3.53	642	15075	
			22-03-2019					8.27	22090	84	262	1544	31.54	264	11695	
73	12221	Lao More Biscuits P.Ltd		Small	Food	orange	0.5 KLD									
			26-09-2018					6.7	1952	620	258	570	68.94	247	367	
74	10178	Akshay industries		Small		Red										
			15-06-2020					8.63	1302	18	18	64	0.67	197	300	
			12-06-2019					8.67	928	8	3	19	0.78	151	164	
75	12464	Maruti multichem P Ltd		Small	Chemicals	Red	4 KLD									
			31-05-2019					8.8	6485	20	88	690	3.54	271	3000	
			06-12-2018					8.46	908	8	3	13	1.74	103	187	
76	11376	Gaurav industries		Small	Chemicals	RED	8 KLD									
			01-02-2020					7.91	2790	12	41	158	5.6	508	888	
			12-07-2019					8.34	2350	14	21	117	0.84	454	740	
			25-02-2019					8.29	1008	8	3	18	0.5	295	241	
			06-12-2018					6.93	3682	22	255	1206	4.93	412	1250	
77	12939	Pacific industries		Small	Chemicals	Red	5.5 KLD									
			27-05-2020					8.35	1248	8	33	174	1.4	380	205	
			17-10-2019					8.17	1038	18	62	275	1	326	180	
			31-05-2019					7.94	1492	30	33	154	1.62	319	290	
			22-03-2019					7.99	1028	8	5	43	3.47	270	208	
78	11390	Gayatri Dyechem		Small	Chemicals	Red	1.8 KLD									
			12-07-2019					7.94	7132	196	169	598	53.59	910	2670	
			01-03-2019					7.91	1252	18	12	101	3.47	336	293	
79	13979	Shreeji Associates		Small	Chemicals	Red	1 KLD									
80	12588	Minal Intermediates		Small	Chemicals	Red	12.7 KLD									
			05-03-2020					7.97	1932	12	27	94	2.18	175	691	
			28-11-2019					8.19	1458	14	9	68	5.53	320	412	
			07-08-2019					8.65	1456	20	12	61	0.73	178	529	
81	10033	Ocean Industries		Small	Chemicals	Red	2.6 KLD									
			06-06-2019					8.08	900	6	4	29	0.67	186	284	
			22-03-2019					7.94	942	32	12	84	1.57	268	220	

82	11779	J.J Food Industries		Small	FOOD	ORANGE	2.5 KLD								
			26-11-2018					6.88	1328	110	157	479	1.96	271	408
83	11178	Dishman Pharmaceuticals		Medium	Pharmaceuticals	Red	11 KLD								
			20-04-2020					8.51	2050	18	28	120	0.56	391	484
			20-09-2019					6.96	1882	76	52	155	11.42	1125	339
			07-08-2019					8.11	1682	430	141	510	3.36	240	549
			12-06-2019					8.03	1088	4	46	118	9.3	108	369
			23-05-2019					7.63	2438	78	90	374	6.95	266	1020
			30-01-2019					7.82	2250	356	664	1384	82.26	606	518
			05-12-2018					7.63	1338	42	73	221	21.06	193	365
84	14353	Swastik Industries		Small	Chemicals	Red	14.4 KLD								
			26-02-2020					6.45	2958	14	221	758	51.13	467	918
85	10507	Ashmita Industries		Small	Chemicals	Red	5 KLD	8.59	4194	16	12	91	1.29	406	1663
			30-07-2019												
86	12708	Narayan industries		Small	Chemicals	Red	23KLD								
			10-10-2019					7.52	1182	260	101	405	22.62	310	269
			24-08-2019					7.94	1254	170	117	248	31.19	281	303
			20-07-2019					8.03	1254	154	67	261	28.11	312	347
			12-06-2019					8.22	1382	84	72	184	35.17	308	345
			09-01-2019					7.8	1082	6	3	19	14.95	186	234
			11-07-2018					8.33	1126	72	34	124	20.78	109	325
87	13766	Shiva Chemicals		small	chemicals	red	2..5								
			19-08-2019					8.12	2476	26	54	188	3.58	378	850
			06-05-2019					7.91	1626	126	205	526	2.8	359	401
88	13157	Premprakash industries		small	food	orange	20 KLD								
			25-04-2019					7.53	3364	216	91	277	11.53	539	1104
			19-12-2018					6.72	4092	258	315	868	4.03	703	1174
89	13008	Parth Enterprise		small	chemicals	red	4.5 KLD								
			07-08-2019					8.59	7920	50	116	454	1.46	389	3300
			06-07-2019					8.14	4918	44	63	273	1.34	444	2061

List of Industries whose valve is closed by NEPL ANNEXURE- IX

Sr. No.	PCB ID	Name of units	Date monitoring of	SSI/MSI/Large Scale	Type of industry	Category (Red/Orange/Green)	Quantity of wastewater to CETP (CCA Qty in KL/Day)	Quality of wastewater							Remarks	
								pH	BOD	COD	NH ₃ -N	TSS	TDS	SO ₄ ²⁻		Cl ⁻
1	10572	Atul Intermediates	10-02-2020	Small	Chemical	Red	8	8.16	106	421	13.8	34	3262	511	973	
			10-10-2019					7.18	783	1701	212.1	124	8908	1103	3080	
			04-05-2019					7.76	82	428	12.6	66	3228	424	900	
2	13991	Shreeji Krupa Enterprises	12-05-2020	Small	Chemical	Red	3	8.74	37	242	1.12	12	3764	238	1685	
			15-02-2020					7.85	1033	4308	72.1	186	33428	1201	15305	
3	10751	Bhavani Industries	27-01-2020	Small	Chemical	Red	9	7.11	436	1567	2.46	34	4168	1321	392	
			06-07-2019					7.19	448	1643	3.1	32	4348	1643	520	
4	11914	Jayvir Dye chem	-	Small	Chemical	Red	4.5	-	-	-	-	-	-	-	-	No discharge into CETP (Low conc.: Common spray dryer and High: Novel, Vatva)
5	29822	Parnacell Chemical	15-06-2020	Small	Chemical	Red	11	-	-	-	-	-	-	-	-	No Sample
6	10106	Aeromatic Dyestuff Industries	25-06-2020	Small	Chemical	Red	4	7.8	88	326	17.53	146	5370	162	2550	
			03-12-2019					8.48	187	561	0.38	56	6028	295	2664	
			06-07-2019					8.18	106	688	6.83	36	8264	1201	2925	
7	10075	Acron Pharmaceuticals	17-04-2019	Small	Pharmaceutical	Orange	2	7.63	59	139	5.7	32	1272	375	239	
			26-11-2018					6.51	617	2073	4.1	56	3064	611	863	
8	12388	Maheshraj Chemicals Pvt Ltd	-	Small	Chemical	Red	-	-	-	-	-	-	-	-	-	No discharge into CETP
9	12115	Kinjal Organics Pvt. Ltd. (old: Kinjal Chemicals)	-	Small	Chemical	Red	-	-	-	-	-	-	-	-	-	No discharge into CETP
10	13131	Pranav Chemicals	26-06-2019	Medium	Chemical	Red	14	8.21	17	74	2.8	12	2762	1114	737	
			14-08-2018					8.6	14	82	2.2	12	3418	702	882	
11	12293	M.R.Chemical	15-06-2020	Small	Chemical	Red	13	7.41	262	1115	9.2	12	3868	569	1210	
12	11718	Industrial Chemicals Work	-	Small	Chemical	Red	-	-	-	-	-	-	-	-	-	No discharge into CETP
13	12650	Msn Intermediates Ltd	25-09-2019	Small	Chemical	Red	20	6.92	400	967	2.24	30	8946	3065	1350	
			22-02-2018					7.9	35	112	6.44	38	4748	694	1182	
14	10380	Anjani Industries	27-05-2020	Small	Chemical	Red	2.2	8.04	12	10	62	14	2018	322	624	
			16-05-2019					8.03	15	79	2.5	20	2768	748	777	
15	12513	Mediwin Pharmaceuticals	07-12-2019	Small	Pharmaceutical	Orange	3	7.33	219	612	17.9	66	1036	186	311	
			25-09-2019					7.33	94	291	6.83	48	1184	378	182	
			26-11-2018					7.01	291	947	9.1	112	1606	279	460	

			01-03-2019					8.57	1760	104	15	123	70.84	181	509
13	10488	Ashadeep Industries		Small	Chemical	Red	0.5								
			01-06-2019					7.11	17046	36	256	1400	248.08	419	8665
14	11557	Gwalia Sweets		Small	Chemical	Red	2								
			20-09-2019					4.43	1720	766	4460	5256	20.61	482	300
			19-07-2018					8.25	2968	62	20	74	4.14	721	905
15	13963	Shree Uma Industries		Small	Chemical	Red	9.1								
			02-10-2019					7.49	3668	14	166	364	35.9	872	1090
			27-08-2018					7.88	4740	94	217	750	54.15	342	1875

16	10322	Amishi drugs & Chemicals Ltd		Medium	Pharmaceuticals	Red	3 KLD								
			19-02-2020					7.6	6180	38	83	160	26.71	1009	2065
			05-12-2019					7.65	3980	365	161	586	15.51	751	1289
			04-08-2019					7.04	5568	52	78	152	26.99	330	2380
			07-02-2019					8.31	3282	12	32	64	1.38	191	1402
			15-10-2018					7.92	8958	256	131	526	90.22	717	3475
17	12221	Lao More Biscuits P.Ltd		Small	Food	orange	0.5 KLD								
			26-09-2018					6.7	1952	620	258	570	68.94	247	367
18	11390	Gayatri Dyechem		Small	Chemicals	Red	1.8 KLD								
			12-07-2019					7.94	7132	196	169	598	53.59	910	2670
			01-03-2019					7.91	1252	18	12	101	3.47	336	293
19	11178	Dishman Pharmaceuticals		Medium	Pharmaceuticals	Red	11 KLD								
			20-04-2020					8.51	2050	18	28	120	0.56	391	484
			20-09-2019					6.96	1882	76	52	155	11.42	1125	339
			07-08-2019					8.11	1682	430	141	510	3.36	240	549
			12-06-2019					8.03	1088	4	46	118	9.3	108	369
			23-05-2019					7.63	2438	78	90	374	6.95	266	1020
			30-01-2019					7.82	2250	356	664	1384	82.26	606	518
			05-12-2018					7.63	1338	42	73	221	21.06	193	365
20	14353	Swastik Industries		Small	Chemicals	Red	14.4 KLD								
			26-02-2020					6.45	2958	14	221	758	51.13	467	918

21	13448	Rootrang Dyestuff		small	chemicals	red	0.650 KLD								
			07-08-2019					8.16	1816	30	75	183	4.37	204	617
			20-12-2018					7.94	42414	20	470	2749	23.58	1893	25150
22	51932	Rajesh Dairy Products		Small	Food	orange	05 KLD								
			06-08-2018					7.12	2210	283	302	716	63.11	372	482
23	10187	Medicina Lyfe Care (Old Name:Rushabh International)		small	Pharmaceuticals	red	0.3 KLD								
			22-03-2019					6.19	8428	250	366	922	1035.44	2082	3102
24	10404	Antico Techniques		small	chemicals	red	1.5 KLD								
			13-03-2020					7.63	9788	18	527	2029	3.14	892	4070