The Report of the Court Commissioner Appointed by Hon'ble NGT- Pune for Inspection of Industries at GIDC Sachin, Surat

March-2016

Acknowledgement

I am indeed thankful to Hon'ble NGT- west zone Pune for appointing me as the Court Commissioner vide its order dated 5th November, 2015 to examine the facts about the issues related to waste water disposal from Industries in GIDC Sachin, Surat in the Application no 50/2015 (M.A. no 192/2015) and the review application no.25/2015 in the matter of The Human Animal Welfare Association v/s GPCB and others.

I am also thankful to GPCB, GIDC and CETP authorities for providing me useful data while preparing this report. I am further thankful to my subordinates in CEE – Ahmedabad for assisting me during preparation of this report.

I have prepared this report keeping in view the ToR given by Hon'ble NGT. This report contains details pertaining to CETPs, individual industries, waste water disposal in GIDC Sachin, photographs of the facilities provided by the units, some sample photographs correlated to various issues in this matter and finally observations and recommendations in order to resolve the issues of waste water disposal in this estate along with the actions to be taken by all concerned for each recommendation.

The recommendations contained in this report are based on the various aspects which includes discussions with the stakeholders, observations during various field visits and the analysis of the existing data collected from different sources.

I am sure that this report will provide Hon'ble NGT, needed facts for issuance of appropriate directions to different stake holders in this case for inclusive enhancement of environment in GIDC Sachin at Surat.

J.K. Vyas

Court commissioner

Abbreviations:

APCM: Air Pollution Control Measures

BOD: Biological Oxygen Demand

CC&A: Consolidated Consents and Authorization

CETP: Common Effluent Treatment Plant

COD: Chemical Oxygen Demand

CPCB: Central Pollution Control Board: New Delhi

CTE: Consent to Establish (NOC)

CTO: Consent To Operate

D&P: Dying and Printing

EAR: Environmental Audit Report

ECC: Environmental Clearance Certificate

EMS: Environment Management System

ETP: Effluent Treatment Plant

GECL: Globe Enviro Care Limited (CETP at GIDC Sachin, Surat)

GPCB: Gujarat Pollution Control Board

HO: Head Office of GPCB at Gandhinagar

NGT: National Green Tribunal

O&M: Operation and Maintenance

RO: Regional Office of GPCB at Surat

SEPPL: Saurashtra Enviro Projects Private Limited (TSDF-facility)

SIEL: Sachin Infra Environment Ltd (CETP at GIDC Sachin, Surat)

SCADA: Supervisory Control and Data Acquisition.

SEIAA: State Level Environment Impact Assessment Authority

SWD: Storm Water Drain

ToR: Terms of Reference

VO: Vigilance Office of GPCB at Surat

U/G: Under Ground

ZLD: Zero Liquid Discharge

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1. Terms of References (ToR) and Court Commissioner's site Visit:

As per the order dtd 5th November 2015 and further order dtd 21st January 2016 of Hon'ble NGT West Zone, Pune in M.A. no-192/2015 (Application no 50/2015 (WZ)) and review application no 25/2015 in the matter of The Human & Animal Welfare Association vs. GPCB and others and the letter no GPCB/CCA-SRT-C-346/- dated December 5th, 2015 of GPCB.

The ToR were sent to GPCB and others on 16/12/2015.

The broad Terms of Reference (ToR) for accomplishment of this task are as under:

1. To find out the numbers of D&P (dying and printing) units in the cluster

2. To check whether these units are members of respondent 4 i.e. CETP

3. To identify and report about the numbers of outlets of the industries/units,

4. To ascertain whether each industry/unit is internally connected to CETP through the underground drainage system.

5. To check whether there are discharges of industrial effluent in open area/drain/nala,

6. Based on the available data to comment about item (5) of Hon'ble NGT order dtd 5th November, 2015.

2. Background:

2.1. Location and Meteorological condition:

The city of Surat is located on the Southern part of Gujarat between 21 to 21.23 degree Northern latitude and 72.38 to 74.23 Eastern longitude. Sachin GIDC industrial estate is located in Palsana Taluka of Surat District of Gujarat. The annual mean Max temperature is 27.8 ^{0} C and annual Mean Min temperature is 13.0 ^{0} C but the highest temperature was recorded 45.7 ^{0} C in last year (Source: Weather zone) and average precipitation (1985-2014) of Palsana is 1387 mm.

Surat is mainly known for its textiles, diamond cutting & processing industries. Nowadays, it is emerging as a potential hub for IT sector in Gujarat. Hajira and Magdalla Ports in the district provide logistic support to the industrial operations in the state with foreign countries. Sachin Industrial Estate has an area of 749.35 Ha, has 1557 plots and 2284 units. Location of GIDC Sachin is shown as under in the map.

(Source: Brief Industrial Profile of Surat District, MSME- Development Institute Government of India)

Table2.1: Connectivity of Sachin

Facility	**Distance in Km**
Highway (NH/SH)	0.2
Railway	3.5
Air port	12.32
Port	22.2

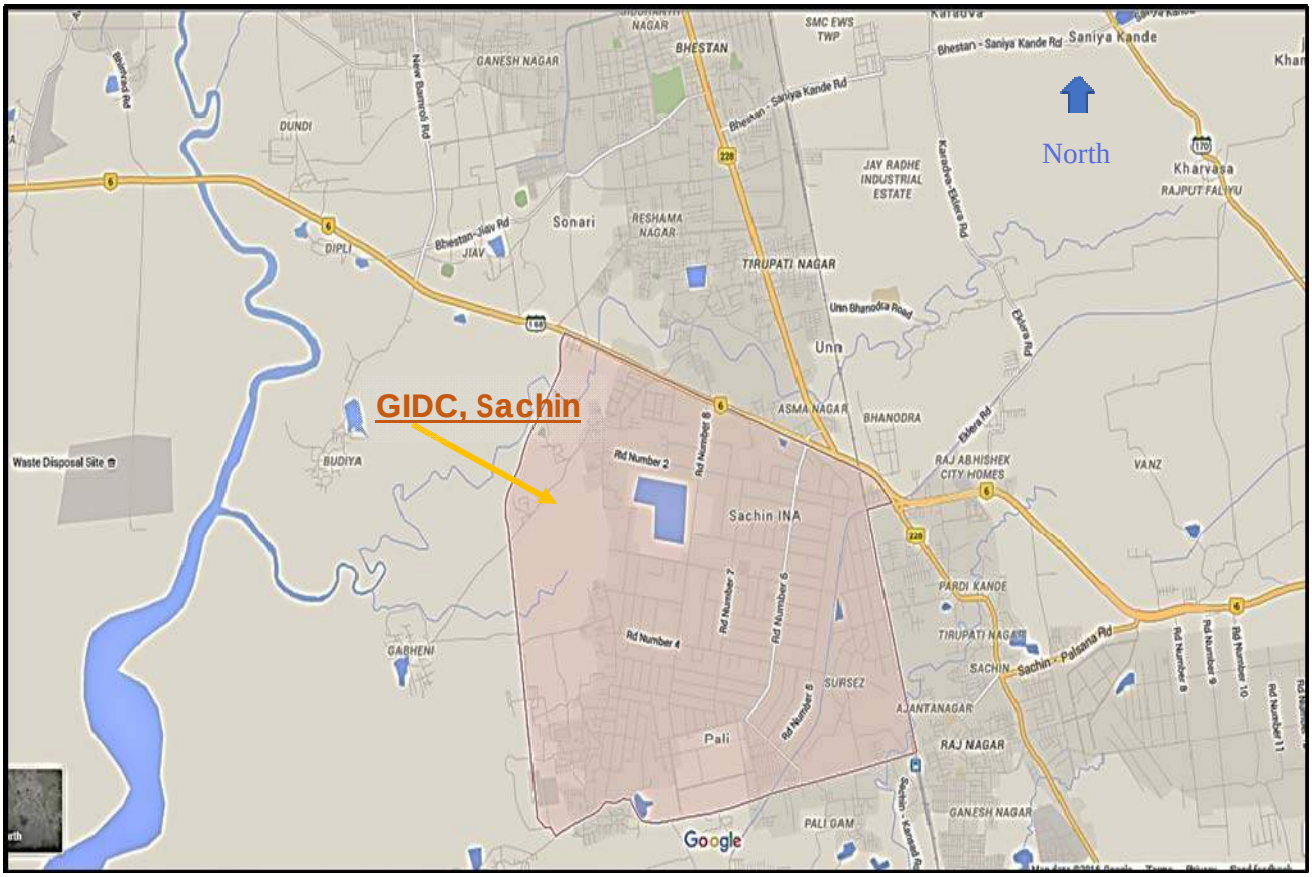


Figure: 2.1, The map showing location of GIDC Sachin and other topographic features.

2.2 Number and types of Industries in Sachin Industrial Estate:

As per the mail dtd 18th February, 2016 from the chief officer Sachin Notified Area of GIDC Sachin, there are 2284 units in this estate involved in dying and printing, manufacturing chemicals and dyes, water jet, digital printing, yarn dying, embroidery, power looms and plastic out of which 70 are D & P, 46 chemicals, and rest of the units involved in yarn dying, power looms, water jet, and ancillary units in this GIDC.

(Annexure P)

2.3 Major Raw materials and products of D&P units in the estate:

The major raw materials used by the industries in this estate are grey cloth, dyes, water, soap, printing gum and other number of chemicals like caustic, formic acid, safoline, oxalic acid, hydro etc.

The industries in the estate are involved in dying and printing of Art Silk Fabrics.

2.4 Water: Source, consumption and disposal of waste water:

Source:

The water supply to the industries in the estate is by Notified Area Authority (NAA) situated in GIDC Sachin. In the event of inadequate water supply from the authority, the industries use water through tankers and bore wells.

Consumption:

The average water consumption in the D&P unit is in the range of 15 to 25 liters/meter of cloth processed and the average waste water generation is in the range of 10 to 20 liters/meter of cloth processed.

Disposal:

The waste water from two CETPs and M/s Colortex is disposed of through closed pipeline at Unn Khadi in Village Gabheni.

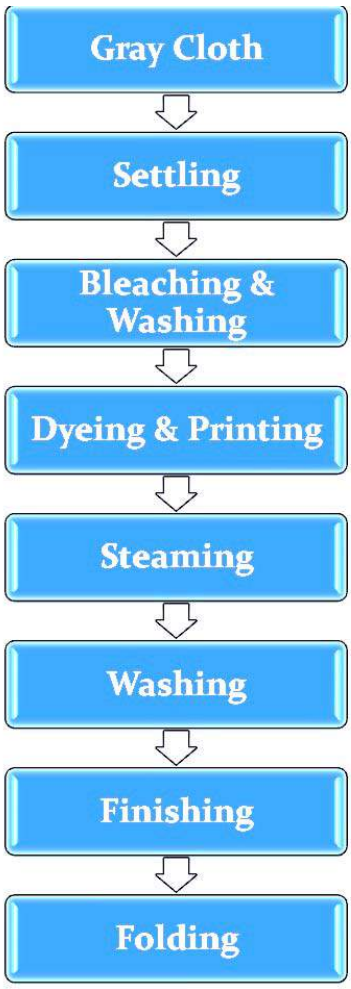
2.5 Power: sources and supply:

The power supply to the industries in the estate is from M/S Dakshin Gujarat Vij Company Ltd situated at Surat.

2.6 Manufacturing process of major types of Dying and Printing units.

The steps involved in the manufacturing process are washing of grey cloth, scouring in jet dying machine, treatment with oxalic acid for weight reduction, dying, stenter and thermosetting and finally finishing, folding and packing.

Flow Chart of Manufacturing Process of Dyeing and Printing Industries



2.7 Types of Fuels used and APCM:

Fuels:

Earlier the industries were using natural gas (NG) as a fuel, which was supplied by Gujarat Gas Company Ltd. Now a days most of the industries use coal/lignite.

Air Pollution Control Measures (APCM):

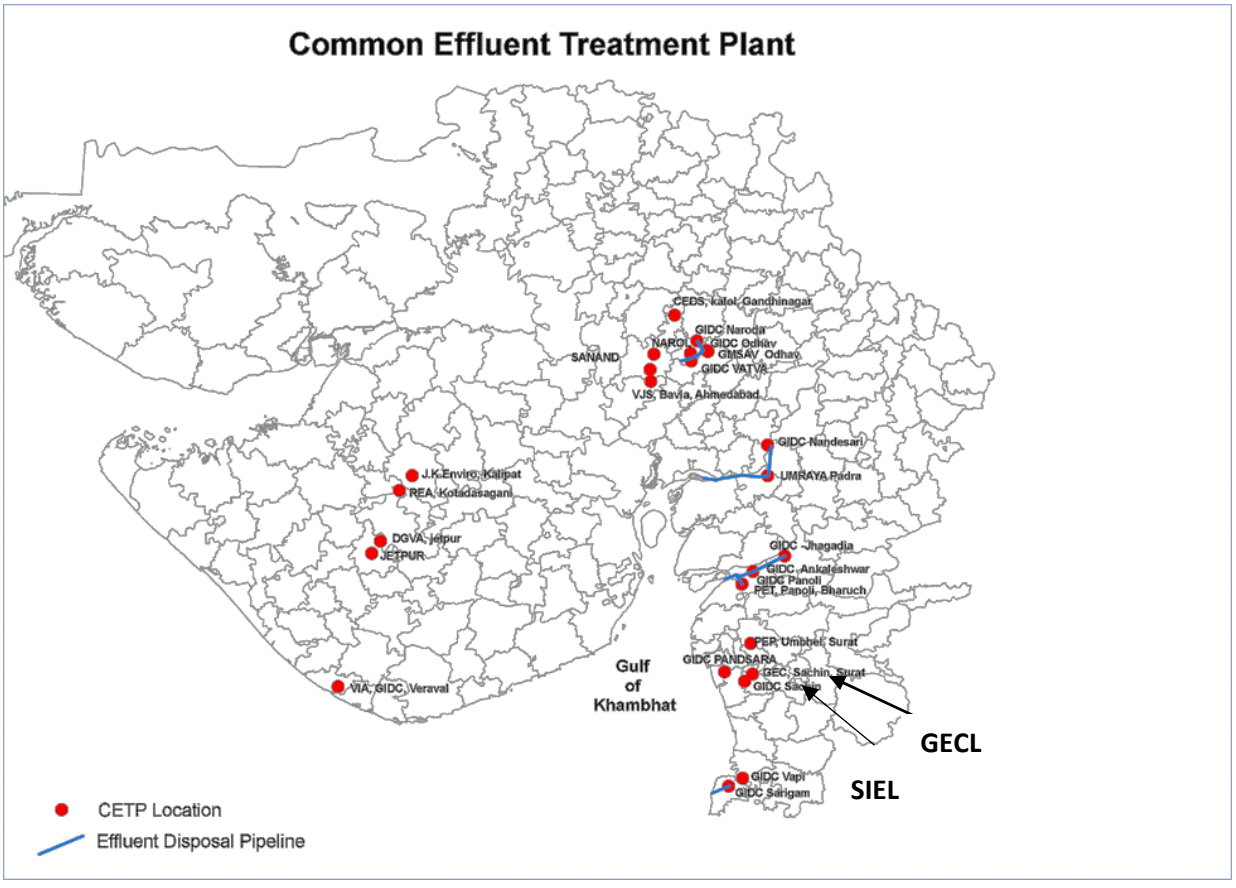
The D&P units have provided multicyclones, bag filters as APCM for control of air pollution.

3. Environmental Infrastructure facilities in the Estate:

This estate is having two CETPs i. e. SIEL, GECL. There is a common ETP of Colortex for two industries which treats the waste water of two of their members only.

3.1 CETP (s):

Location of the CETPs in GIDC Sachin and Gujarat:



A. Sachin Infra Environment Ltd. (SIEL)

This CETP is for D&P units, it has 62 members all are textile processing units and 16 are closed. The capacity of CETP is 50 MLD but present load is 45.43 MLD as certified by

Schedule I auditor "S N Patel Institute of Technology Research Centre" Umrakh, Bardoli, Surat in EAR April 2015 **(Annexure M).**

All the members are in red category and are small and medium scale units .CETP has fixed inlet norms for their members. The CETP is to expand its capacity to further 30 MLD (ECC from SEIAA and CTE/NOC from GPCB is obtained) so the total capacity after expansion will be 80.00 MLD. **CETP is prepared to accept the effluent from units in addition to their members.**

The trade effluent from the members is received through an underground pipe line. The treated effluent from CETP is discharged at Unn khadi through a pipe line which is installed by GIDC. The flow meters are provided by CETP at the inlet and outlet and online TOC meter is also installed which is required to be connected to GPCB offices at RO Surat and at Ho Gandhinagar. The sewage generated by individual units is disposed of through septic/soak pit system or through underground CETP drainage with the trade effluent.

CETP generates sludge at a rate of 15 to 20 TPD and has taken membership of SEPPL a secured land fill site for disposal of this sludge as per SEPPL letter dtd 10/4/13 and is valid up to 9/4/18.

SIEL has submitted a progress report to GPCB for up gradation of CETP on 1/2/2016 vide its letter no. SIEL/212/2015-16 on 16.02.2016.

GPCB has granted CC&A to the CETP on 24/9/2014 and is valid up to 29/5/2020. Reference SIEL/212/2015-16 on 16.02.2016.

(Annexure P)

B. Globe Enviro Care Ltd (GECL):

This CETP meant for chemical industries has the capacity to treat effluent up to 0.5 MLD (present load 0.2 MLD) and it has 46 members all in red category of which 37 are from

GIDC Sachin, 4 from Pandesara, 1 from Palsana, 1 from kosamba, 2 from Olpad and 1 from Maroli. There are 42 members are in small scale category, 3 in large and 1 in medium scale category. It has fixed inlet norms for their members. The CETP is to expand its capacity to further 0.5 MLD so the total capacity after expansion will be 1.00 MLD. The present load is 0.19362 MLD as per EAR April 2015 by Manmade Textile Research Association, Surat.

(Annexure M)

The CETP is not intending to accept effluent from other new units and to provide the underground drainage system for receiving trade effluent from their members.

The CETP receives trade effluent from members through four dedicated tankers and has GPS and manifest system. The treated effluent from CETP is discharged in to Unn khadi through a pipe line provided by GIDC and finally this waste water goes to the Arabian Sea. The sewage generated by individual units is disposed of through septic/soak pit system. CETP has provided flow meters at the inlet and outlet of CETP and TOC meter at the out let of CETP which is required to be connected to RO and HO of GPCB.

CETP generates sludge up to 5.0 to 8.00 TPM and for disposal this sludge is sent to SEPPL a secured land fill site.

GPCB has granted CC&A no AWH-46784 to the CETP on3/5/12 and is valid up to-20/12/16. Reference: The GECL letter no GECL/CORR/01086/2015-16 dtd 16/2/16

(Annexure P)

C. Colortex The dye stuff company:

This ETP is for chemicals and drugs manufacturing units, has the capacity of 0.1 MLD and treats the effluent from two units i.e. Colortex Industries Pvt.Ltd and CTX Lifesciences Pvt Ltd. It receives the effluent through drains. The treated effluent from ETP is

discharged in to Unn khadi through pipe line provided by GIDC and finally this waste water goes to the Arabian Sea.

The ETP sends its sludge to SEPPL, to its own disposal facility and also for co processing in cement plants of M/S Ultra tech Cements, M/S Narmada Cements and M/S Gujarat Cement Works.

GPCB has granted CC&A to both the units individually.

Reference mail of Colortex mail dtd 17/2/16.

(Annexure P)

3.2 Disposal system of waste water from CETPs:

As stated above the waste water after treatment from all the CETPs and ETP of M/S Colortex Industries is discharged in to underground drainage system of GIDC and sent to Unn khadi for final disposal at Arabian Sea.

3.3. Treatment Storage and Disposal Facility (TSDF):

There is no TSDF site in GIDC estate. The facility at village Gabheni is closed since long so CETPs and ETP send their hazardous waste at SEPPL, Dist. Kutch.

4. Methodology of addressing the issues in GIDC Sachin:

In order to find out the facts required by Hon'ble NGT, the site at GIDC Sachin was visited by me on 1/2/16 and continued up to 3/2/16 in the first phase. A meeting was convened with all the stakeholders in the office of GIDC at Sachin on 1/2/16. The details showing representatives who attended this meeting are as per (**Annexure F)**.

During this meeting the complainant raised the following issues;

(a) Lack of plantation within the industrial premises,

(b) Use of water through sources other than GIDC by D&P units,

(c) Memberships of all D&P units for SIEL CETP and

(d) Unauthorized disposal of waste water at some places in GIDC Sachin.

In response to the above, the representatives of SIEL informed that;

(a) Individual units are planting trees within their premises as per the availability of space in their units,

(b) When GIDC is unable to supply the water to the units in the event of no supply of water in the canal, units use water through tankers, this was confirmed by representatives of GIDC present in the meeting,

(c) The representatives of CETP informed that all the units of D&P are the members of SIEL and

(d) Now there are no unauthorized effluent disposal issues from D&P units as the underground drainage system is in place for D&P units and is functional. The representatives further stated that there are instances of waste water flow in some of

the areas of GIDC Sachin and which may be due to sewage or trade effluent from some other industries in GIDC Sachin.

The second phase of the monitoring was carried out from 22/2/16 to 25/2/16. The remaining details as required by Hon'ble NGT as per the orders dtd 5/11/15 and 21/1/16 were collected during these visits and are summarized in table as per the **(Annexure-A).**

The details about CETP membership, waste water disposal, CC&A, number of out lets and the quality of trade effluent after treatment of individual units are summarized in the Tabular form and attached as **(Annexure-A).**

The list of closed members of SIEL as per the GPCB/SIEL letters and as found during visit is as under.

Sr. No	Company Name
1	Venus Fibers Ltd.
2	Murlidhar Threads
3	Rudraa Digital Solutions
4	S.M. Digital
5	Shruti Fashions Pvt. Ltd.
6	Rangoli Tuxturisers P. Ltd.
7	Glorry Processors LPP
8	Priyadarshni Synthetics Ltd.
9	Soni silk Mills
10	Adarsh textile Mills
11	Zenitex Private Ltd.
12	Venus lifestyle
13	Chandra Dyg. & Ptg. Mills Pvt. Ltd.
14	Archana Dyg. & Ptg. Pvt. Ltd.
15	Utsav Silk Mills
16	Manila Processors Pvt.Ltd.
17	Vitrag Dyg. & Ptg.

5. Observations:

The concluding observations for both the phases of monitoring are as under;

- There are 62 D&P units in GIDC Sachin-Surat. Their names locations and other details are as per **(Annexure A).**
- All 62 units are the members of CETP, SIEL as shown in the **(Annexure A).**
- All D&P units are internally connected to the U/G drainage system of CETP for disposal and further treatment in CETP **(Annexure A).**
- As shown in the table at annexure all the units of D&P have single outlet for disposal of their trade waste **(Annexure A).**
- After the stakeholders meeting various sites are visited, as observed during this visit from 1st to 3rd February, 2016, there is a flow/discharge of colored water in the SWD of GIDC Sachin at some places. The discharges of waste water were seen in areas like;
  - The place opposite to M/s Harish Chemicals at Rajkamal Cross road.
  - Near M/s Vishwaprem Dying and printing unit. The analysis report of the sample of water flowing at this place collected during visit on 1st February, 2016 show that this waste water is contaminated.
  - Near Government school behind village Gabheni and crematorium. The analysis report of the sample of water flowing at this place collected during visit on 1st February, 2016 shows that this waste water is contaminated.
  - Waste water flowing in the storm water drain situated opposite to M/s R.D dying and Printing Mills pvt Ltd. The analysis report of the sample of water flowing at this place collected during visit on 2nd February, 2016 shows that this waste water is slightly acidic and also contaminated.

- The analysis report of the hand pump water sample collected during visit on 1st February, 2016 situated at village Gabhani near Crematorium indicates that the quality of water is unfit for the purpose of drinking, however the villagers informed during discussion that this hand pump water is not used by them for the purpose of drinking.

  The quality of raw water supplied to the industries by GIDC appears to be very good as seen from analysis report. **(Annexure B colly)**
- There is no separate drainage network for collection, treatment and disposal of sewage in GIDC Sachin, the quantity of which is estimated at approximately 3.00 MLD as per the RO Surat of GPCB visit report dtd 16/1/16. (**Annexure O)**
- The D&P units were visited to find out the facts of waste water disposal, of which some were found discharging waste water outside their premises in to the GIDC storm water drain the details of which were sent to GPCB for further action through mail dtd 5/2/16 to GPCB. **(Annexure D)**
- In addition to dying/ printing (textiles) and chemical units, there are other industries within the estates involved in yarn dying ,digital printing, water Jet dying, embroidery, power looms etc. who are not connected to any CETP and therefore may discharge its waste water in to the GIDC storm water drain.
- Housekeeping in most of the D&P units is required to be improved.
- Recordkeeping system for CC&A, membership of CETP, use of chemicals, industry profile on XGN is unsatisfactory.
- Most of the individual D&P units have provided a collection tank and screen as primary ETP. There is no proper and adequate nomenclature to the ETP system and at the places where flow meters are installed and places from where the waste water is sent to CETP.
- Use of flexible pipes observed at different places in the premises of the units.
- Environment related matter is being looked after by non-technical persons.

- Flow meters have been provided by D&P units to record the flow of waste water in to CETP, this shall be linked to the SCADA system of CETP and also to GPCB-R.O/H.O. for monitoring
- The system of raw water collection through tankers by the industries/units is unsafe as it is done through number of flexible pipes instead the fixed pipe lines.
- In many units there are holes in their compound walls creating a doubt of unauthorized waste water disposal all these holes are required to be plugged by them with immediate effect and GPCB to ensure this.
- It is felt that the problem of disposal of effluent in the estate may not be entirely due to the D&P units alone as SIEL has already established an underground drainage system for collection of effluent from their member units (i.e. D&P units) for further treatment in the CETP. There are chemical, digital printing, water jet dying, yarn dying, embroidery, plastic and some engineering units in this estate who generate trade and sewage and thus may discharge this effluent in the GIDC drain.
- The quality of treated effluent from SIEL and GECL are not achieving the norms decided by GPCB**.(Annexure Q)** hence both the CETPs are required to be upgraded at the earliest to achieve the GPCB norms.
- There is a lack of plantation within the units and also in the entire estate as a whole.
- The roads in the entire estate are in poor condition and so causes fugitive emission and air pollution to reduce dust emission and air pollution.

6. Recommendations/Suggestions:

In order to address and resolve the issues related to the unauthorized disposal of effluent in GIDC Sachin and the pollution in Unn Khadi following actions are required to be executed by various stakeholders at the earliest:

1. All the units in the GIDC Sachin shall drastically improve their housekeeping, create free space and carry out plantation as per GPCB norms.

(Action: All units)

2. All the pipelines within the individual units or CETP premises shall be fixed, in other words there shall be no flexible/loose/temporary connections. Dosing of chemicals/nutrients required for treatment in both the CETPs shall be done through metering pump mechanism only. All leakages/spillages within the industrial and CETPs premises shall be immediately plugged and in case of accidental leakages/spillages it shall be diverted to CETP collection tank for subsequent treatment.

(Action: All units and all CETPs)

3. All the dyeing and printing units and chemical units in the estate who are members of CETP SIEL and GECL respectively shall continue to be members of their respective CETPs .Rest of the units shall approach SIEL/GECL for membership.

(Action: All units)

4. GPCB shall dedicate a team through its V O –Surat and R O- Surat individually to closely monitor units in GIDC Sachin during day and night hours. The facts about erring units be immediately reported to HO GPCB who shall take strictest possible actions

against them forthwith. The team from H O Gandhinagar may also pay occasional visits to GIDC Sachin and take necessary actions based on the observations.

(Action: GPCB)

5. There shall be no movement of tankers within GIDC Sachin from any industry or for any industry or for any purposes receiving the effluent from member industries of GECL to CETP for further treatment from 6.00 pm to 7. 00 am. Next morning. The day time movement of all tankers shall be only under GPS system attached to GPCB and GECL server (Action: GECL and their members). 24 hrs. Security shall be established to regulate the movement of tankers.

(Action: ALL Industries/ CETPs)

6. It is learnt that there are more than two gates in the entire estate and this makes difficult for the agencies i.e. CETP authorities and regulatory authorities to keep watch on unauthorized movement of tankers carrying untreated effluents with in and also from other industrial area nearby. It is therefore recommended that only one gate after discussion with SIEL, GECL, GPCB and GIDC shall be decided and declared for movement of tankers in GIDC Sachin.

(Action; SIEL, GECL, GPCB and GIDC)

7. All the industries/units are required to keep all legal records at their industrial sites so that these documents are easily available to the enforcing agencies during monitoring. (Action: All units)

8. All the industries /units shall immediately nominate a duly qualified and experienced person in the field of environment to look after O&M of their EMS and all other activities related to environment and inform GPCB in this regard.

(Action: All units)

9. The system for collection of raw water by individual units at their locations through tankers to be made more safe and permeant by installation of a fixed piping system as at present this water is collected through flexible hose pipes which are always lying outside the industrial premises protruding through their compound wall.

(Action: All units)

10. SIEL and GECL shall form a team having representatives of GIDC, GPCB to regularly monitor the area (even during odd hours) and all vulnerable places to check unauthorized waste water disposal. GPCB shall take immediate actions against all the defaulters as per the provisions of the W.A.-74 in case of violation by any industry.

(Action: SIEL, GECL and Colortex CETP, GIDC and GPCB).

11. CCTV cameras shall be installed at all gates and other sensitive areas in consultation with GPCB with display facilities at GPCB RO & VO -Surat and Head office and also at all CETPs to keep close watch on the movement of unauthorized waste water disposal and report to GPCB about the erring units. GPCB shall take immediate actions against the defaulters.

(Action: SIEL, GECL and Colortex CETP in consultation with GIDC and GPCB)

12. If a unit is attracting provisions of the Environment Audit, the concerned auditor during their visits shall report to GPCB for stern action about the violation regarding unthorised waste water disposal by units.

(Action: concerned auditors, GPCB)

13. The Individual Industries and CETP authorities have stated that it is possible to reuse the effluent from dying section of textiles into the printing section for blanket and screen washing, colored drums washing etc. up to 70% and some units have implemented this system. This system be replicated for all other units as well, as it will reduce the quantity of waste water generation and subsequently the load on CETP (SIEL).

(Action: All D&P units in consultation with GPCB, SIEL)

14. SIEL, GECL and Colortex shall strictly maintain the inlet norms fixed by GPCB for efficient running of the CETP/ETP and ensure that the quality of effluent after treatment from their CETPs/ETP is always as per the tolerance limit prescribed by GPCB.Both CETPs shall immediately get the approval from all enforcing agencies for upgradation of

(Action: SIEL, GECL and Colortex CETP)

15. SIEL, GECL and Colortex shall install on line pH and TOC meter with SCADA system at the out let of their CETP/ETP for ensuring the quality of treated waste water as per GPCB norms and this shall be connected to GPCB server at RO Surat and HO Gandhinagar for online monitoring and subsequent corrective actions by GPCB.

(Action: SIEL, GECL, Colortex ETP and GPCB)

16. SIEL, GECL shall ask all his member units to provide magnetic flow meters with recorder, to record the quantity of effluent reused and discharged by units in to CETP shall be monitored through GPRS and SCADA system at CETP.

(Action: SIEL, GECL and Colortex)

17. The units are required to provide within their industrial premises, sludge collection, storage and disposal system in accordance with the provisions of H.W. (MHTM) Rules-2008 and subsequent amendment thereafter. The sludge from the individual industries be collected by SIEL and GECL both from their respective members and strictly handled as per the provisions of HWMH Rules - (2008) and subsequent amendment thereafter and sent to a TSDF site having valid CC&A of GPCB.

(Action: all units in GIDC Sachin, CETPs)

18. The over flow if any from the septic tank /soak pit system of the units shall be diverted to the U/G drainage system of SIEL.

(Action: all units in GIDC Sachin)

19. RO and VO of GPCB Surat region, shall keep a close watch on all ZLD units who are not supposed to dispose of their waste water.

(Action: GPCB)

20. GECL may also consider to provide an underground drainage system for collection of the waste water from all their member units to CETP and until then, CETP shall use GPS, manifest as well as SCADA system with links to GPCB and CETP for its collection system of receiving effluent through tankers to ensure that there is no unauthorized disposal.

(Action GECL, GPCB)

21. All the CETPs shall be strictly operated and maintained as per the guidelines developed by CPCB for management, operation and maintenance of CETPs.

(Action: SIEL, GECL)

22. All CETPs shall carry out performance evaluation of their CETPs from a recognized institute like IIT/ NEERI etc. and submit the reports to GPCB for suitable actions. GPCB may issue time specific directions to CETPs if any in the matter.

(Action: SIEL, GECL and Colortex CETP and GPCB)

23. All other industries like digital printing, water jet dying, yarn dying, embroidery, plastic and some engineering units must provide adequate financial support and contribute for provision of a sound system for collection, treatment and safe disposal of sewage and trade waste from their units.

(All concerned units as stated above)

24. All units in GIDC Sachin shall handle their waste as per the Hazardous Waste (Management Handling and Trans boundary Movement)-Rules 2008 and subsequent amendments in this Rule thereafter.

(Action: All units)

25. The permission given to the units for observing ZLD for their trade waste may be reviewed by GPCB, instead these units be directed to treat their trade waste and sewage as per CETP inlet norms and then discharge in to CETP: GECL for further treatment. This will minimize the possibility of unauthorized waste water disposal in this area.

(Action: All units having ZLD facility, GPCB)

26. All individual industries (D&P and chemical units) shall strengthen their primary effluent treatment system so as to meet CETP inlet norms prescribed in the ECC dtd 22nd Julu,2013 by SEIAA (or the subsequent amendments made by GPCB in this regard)to CETP.

(Action: All units and CETPs)

27. GIDC, SIEL, GECL and all other units in the estate shall go for massive plantation at all possible places.

(Action: All units and CETPs)

28. GIDC, through a separate STP/CETP shall arrange for collection, treatment and scientific disposal of sewage and trade effluent from all the units (other than D&P and chemical industries) i.e. digital printing, water jet dying, yarn dying, embroidery, plastic and some engineering units in this estate who generate trade and sewage and thus may discharge this effluent in the GIDC drain causing pollution.

(Action GIDC in consultation with GPCB, concerned individual industries)

29. Till the above arrangement is done, SIEL and GECL shall immediately explore in consultation with GPCB, to accommodate sewage generated from their member units for treatment in to CETP because the mails dtd 16/2/16 from both CETPs indicate that there is spare capacity available for this purpose for treatment of sewage in to their CETPs and as this will stop the unauthorized disposal of sewage on the surface and in to open drainage and will further help CETPs to achieve the quality of treated effluent from CETPs as per GPCB norms.

(Action: SIEL and GECL in consultation with GIDC and GPCB)

30. A health care unit shall be established in the estate for regular health checkup and treatment of all workers and employers of the units in GIDC Sachin.

(Action: SIEL, GECL and GIDC)

31. All concerned i.e. all CETPs, GIDC and individual industries are required to be regularly exposed to awareness, capacity building and training programs in the field of environmental pollution control to ensure better compliance for all the environmental pollution control laws and overall improvement in the environment.

(Action: All individual industries, SIEL, GECL and Colortex CETP, GIDC and GPCB)

32. It is gathered that SIEL, GECL and Colortex have set up a company i.e. Gabheni Eco channel Private Limited to lay a pipeline for conveyance of the discharge of treated effluent of GIDC Sachin at Unn Khadi and proposal for laying a new pipeline from GIDC Sachin to Unn Khadi is submitted to GIDC Gandhinagar on 2nd July 2015 for consideration. Hon'ble NGT may issuer directions to GIDC and all other concerned department of the government to clear this proposal at the earliest after considering all issues related to environmental impacts and mitigation measures.

(Action: GIDC and other related govt. departments)

33. GPCB shall grant CTE/CC&A to the concerned units in GIDC Sachin only after ensuring its membership at respective CETPs.

(Action: GPCB)

34. All industries, CETP operators in GIDC Sachin shall arrange for collection/segregation and safe disposal of municipal solid waste generated in their premises as per the provision of MSW Rules-2000 and its subsequent amendment thereafter.

(Action: All units and CETPs)

35. The sludge generated from CETPs and individual industries may be used after preprocessing for coprocessing in Cement/Steel/Power Plants. It shall be explored to use this sludge as one of the raw material for manufacturing building materials.

(Action: All units and CETPs)

36. Finally it imperative for the industries, CETP operators and all others concerned in this matter to;

a) Raise their moral and commitment towards superior compliance for all environmental regulations,

b) Stay disciplined and avoid NIMBY (Not in My Back Yard) attitude,

c) Follow the system and NOT A ONE PERSONS POLICY,

Because we all; as citizens of India, are duty bound to provide our future generations a "pollution free environment."

References:

a) The letter no SIEL/231/15-16 dtd 8/2/16 and 16/2/16 of SIEL Sachin.

b) The inspection report dtd 16/1/16 of GPCB

c) The GIDC (Sachin Notified Area) mail dtd 18/2/16

d) The GECL letter no GECL/CORR/01086/2015-16 dtd 16/2/16

e) The Colortex mail dtd 17/2/16.

f.) Brief Industry profile of Surat by MSME development Institute Ahmedabad, GoI

Annexure A

Table showing List of Units in operation, their status of CC&A, CETP Membership, Disposal, Waste Water volume and the compliance

Sr. No.	Names & Location of the Dying and Printing Units visited in GIDC Sachin.	Date of visit/production status during visit	Whether CC&A is Granted (Yes/No)	Whether Unit is a Member of CETP (SIEL) (Yes/No)	Number of Outlets of trade effluent From the Unit	Whether Unit is Connected to Underground drainage System of CETP (SIEL) (Yes/No)	Wastewater Volume from Unit in (m3/day) as per CC&A/Ind.profile (GPCB-XGN)/CETP certificate	Whether Unit is achieving GPCB noms for its effluent (Yes/No)
1	Aastha Fashions Pvt.Ltd, -20480, 702, Phase No :ROAD NO.7,PLOT NO.702,ROAD NO.7,,G.I.D.C.,SACHIN,sachin- 394230,Taluka : Chorasi,District : surat, GIDC : Sachin	23-02-2016/In operation	Yes	Yes	1	Yes	435	Yes (Except TDS)
2	Aditi Silk Mills Pvt.Ltd, -20488, 8102, Phase No :ROAD NO.2,PLOT NO.8102,ROAD NO.2,,G.I.D.C.,SACHIN,sachin- 394230,Taluka : Chorasi,District : surat, GIDC : Sachin	22/2/16/in operation	Yes	Yes	1	Yes	250	Yes (Except TDS)
3	Amit Poly Prints Pvt.Ltd, 703, Phase No :ROAD NO.7,PLOT NO.703,ROAD NO.7,,G.I.D.C.,SACHIN,sachin- 394230,Taluka : Chorasi,District : surat, GIDC : Sachin	23-02-2016/In operation	Yes	Yes	1	Yes	260	Yes (Except TDS)
4	Aklavya lndustries Pvt.Ltd, -24915, 2429, Phase No :ROAD NO.24,PLOT NO.2429,ROAD NO.24,,G.I.D.C.,SACHIN,sachin-394230,Taluka : Chorasi,District : surat, GIDC : Sachin	02-02-2016/In operation	Yes	Yes	1	Yes	1113	Yes (Except TDS)
5	Armaan lndustries Pvt.Ltd(Old-Sangam Creations(P)ltd,) -20532, 714, Phase No :ROAD NO.7,PLOT NO.714,ROAD NO.7,,G.I.D.C.,SACHIN,sachin- 394230,Taluka : Chorasi,District : surat, GIDC : Sachin	23-02-2016/In operation	Yes	Yes	1	Yes	448.500 (>CC&A Norms as per XGN lndustry Profile)	Yes (Except TDS)

6	M/s. Asian Dyeing & Printing Mills Pvt.Ltd 801, Phase No :ROAD NO.2,PLOT NO.801,ROAD NO.2,,G.I.D.C.,SACHIN,sachin- 394230,Taluka : Chorasi,District : surat, GIDC : Sachin	22-02-2016/In operation	Yes	Yes	1	Yes	430	Yes
7	Baid Narrow FAB Pvt.Ltd 7102, Phase No :ROAD NO.71,PLOT NO.7102,ROAD NO.71,,G.I.D.C.,SACHIN,sachin-394230,Taluka : Chorasi,District : surat, GIDC : Sachin	24-02-2016/In operation	Yes	Yes	1	Yes	20	Yes (Except colour)
8	Devi Processors Pvt.Ltd, 804/B, Phase No :ROAD NO.2,PLOT NO.804/B,ROAD NO.2,,G.I.D.C.,SACHIN,sachin-394230,Taluka : Chorasi,District : surat, GIDC : Sachin	23-02-2016/In operation	Yes	Yes	1	Yes	460	Yes (Except TDS & Sulphides)
9	Deepmala Dyg. & Ptg. Mills Pvt.Ltd(Old-Neminath Fabrics Pvt.Ltd.) 810/1,ROAD NO 2,G.I.D.C.SACHIN,sachin-394230,Taluka : Chorasi,District : surat, GIDC : Sachin	01-02-2016/In operation	Yes	Yes	1	Yes	195	Yes (Except TDS)
10	Esspee Industries (Guj) Ltd.(Old Manish Prints Pvt.Ltd,)-20681 251, Phase No :ROAD NO.2,PLOT NO.8102,ROAD NO.2,,G.I.D.C.,SACHIN,sachin- 394230,Taluka : Chorasi,District : surat, GIDC : Sachin	01-02-2016/In operation	Yes	Yes	1	Yes	900(>CC&A Norms as per XGN Industry Profile)	Yes (Except TDS)
11	M/s. Ginza Industries.Ltd, 362, Phase No :ROAD NO.2,PLOT NO.362,ROAD NO.3,,G.I.D.C.,SACHIN,sachin- 394230,Taluka : Chorasi,District : surat, GIDC : Sachin	24-02-2016/In operation	Yes	Yes	1	Yes	755	Yes (Except TDS)

12	Gokul Texprints Pvt. Ltd(Old - Gomti processors Ltd.), A-1/241/242/243, Phase No :ROAD NO.2,PLOT NO.A-1/241/242/243,ROAD NO.2,,G.I.D.C.,SACHIN,sachin-394230,Taluka : Chorasi,District : surat, GIDC : Sachin	23-02-16	Applied to GPCB	Yes	1	Yes	240 as per CETP	closed during visit
13	M/s. Gopal Krishna Prints(Old - Adinath Dyeing and Printing)-20732, 8202/1, Phase No :ROAD NO.8,PLOT NO.8202/1,ROAD NO.8,,G.I.D.C.,SACHIN,sachin-394230,Taluka : Chorasi,District : surat, GIDC : Sachin	24-02-2016/In operation	Yes	Yes	1	Yes	120	closed during visit
14	Hi-Choice Processors Pvt.Ltd, -20790, 264-265,ROAD NO 2,PLOT NO.264-265,ROAD NO 2,G.I.D.C.,SACHIN,sachin- 394230,Taluka : Chorasi,District : surat, GIDC : Sachin	22/2/16/In operation	Yes	Yes	1	Yes	477	Yes
15	Hindustan Dyeing And Printing Mills (P).Ltd, -31451, PLOT NO.2411/1, ROAD NO.2,,G.I.D.C.,SACHIN,sachin-394230,Taluka : Chorasi,District : surat, GIDC : Sachin	1/2/16/In operation	Yes	Yes	1	Yes	200	Yes except TDS
16	Jay Tulsi Tex Prints Pvt.Ltd, (Old - Bajaj Fashion Pvt. Ltd.) 806/1, Phase No :ROAD NO.2,PLOT NO.806/1,ROAD NO.2,,G.I.D.C.,SACHIN,sachin-394230,Taluka : Chorasi,District : surat, GIDC : Sachin	23/2/16/In operation	Yes	Yes	1	Yes	575(>CC&A Norms as per XGN Industry Profile)	Yes (Except TDS)

17	Jay Jinendra Prints Pvt.Ltd, 826, Phase No :ROAD NO.8,PLOT NO.826,ROAD NO.3,,G.I.D.C.,SACHIN,sachin- 394230,Taluka : Chorasi,District : surat, GIDC : Sachin	2/2/16/In operation	Yes	Yes	1	Yes	335	Yes (Except TDS)
18	Jay Santoshi Tex Prints Pvt.Ltd, 259-261, Phase No :ROAD NO.2,PLOT NO.259-261,ROAD NO.2,,G.I.D.C.,SACHIN,sachin-394230,Taluka : Chorasi,District : surat, GIDC : Sachin	22-02-2016/In operation	Yes	Yes	1	Yes	370	Yes (Except TDS)
19	Kashis Silk Mills Pvt.Ltd, - 20871 804, Phase No :ROAD NO.2,PLOT NO.804,ROAD NO.2,,G.I.D.C.,SACHIN,sachin- 394230,Taluka : Chorasi,District : surat, GIDC : Sachin	23/2/16/In operation	Yes	Yes	1	Yes	423	Yes (Except TDS)
20	Kirtida Silk Mills 435, Phase No :ROAD NO.4,PLOT NO.435,ROAD NO.4,,G.I.D.C.,SACHIN,sachin- 394230,Taluka : Chorasi,District : surat, GIDC : Sachin	2/2/16/In operation	Yes	Yes	1	Yes	300	Yes (Except Colour & TDS)
21	Kusum Silk Mills Pvt.Ltd, - 20895 290/2,Phase No :ROAD NO.2,PLOT NO.290/2,ROAD NO.2,G.I.D.C.,SACHIN,sachin- 394230,Taluka : Chorasi,District : surat, GIDC : Sachin	22/2/16/In operation	Yes	Yes	1	Yes	710	Yes (Except TDS)

22	M/s Murlidhar Threads, Plot no-351/1&351/2, Sachin	23/2/16 in operation	Yes	No,as it is ZLD unit	N.A.	N.A.	N.A.	N.A.
23	Minakshi Fashions Pvt.Ltd, - 20969 A-1/244,245,,Phase No : Road No.2,PLOT NO.A-1/244,245,G.I.D.C.,SACHIN,sachin- 394230,Taluka : Chorasi,District : surat, GIDC : Sachin	23/2/16/In operation	Yes	Yes	1	Yes	90	Yes (Except TDS)
24	Prafful Industries Pvt.Ltd, - 21084 507,,Phase No : Road No.82,PLOT NO.507,G.I.D.C.,SACHIN,sachin-394230,Taluka : Chorasi,District : surat, GIDC : Sachin	2/2/16/In operation	Yes	Yes	1-but there is a plain water discharge out side ind.premi ses	Yes	1325	Yes (Except TDS & colour)
25	Pushpanjali Dyeing & Printing Mlls Pvt.Ltd, 5534,,Phase No : Road No.55,PLOT NO.5534,G.I.D.C.,SACHIN,sachin- 394230,Taluka : Chorasi,District : surat, GIDC : Sachin	3/2/16/In operation	Yes	Yes	1	Yes	231	Yes
26	Rajhans Silk Mlls Pvt.Ltd, - 21137 278,Phase No : Road No.2 PLOT NO.278,G.I.D.C.,SACHIN,sachin-394230,Taluka : Chorasi,District : surat, GIDC : Sachin	22-02-2016/In operation	Yes	Yes	1	Yes	175	Yes

27	Rameshwar Textile Mlls Ltd, 827,,Phase No : Road No.8,PLOT NO.827,G.I.D.C.,SACHIN,sachin-394230,Taluka : Chorasi,District : surat, GIDC : Sachin	2/2/16/In operation	Yes	Yes	1	Yes	190	Yes (Except TDS)
28	Rivaa Exports Limited, - 21184 803/1,Phase No : Road No.2,PLOT NO.803/1,G.I.D.C.,SACHIN,sachin- 394230,Taluka : Chorasi,District : surat, GIDC : Sachin	22/2/16/In operation	Yes	Yes	1	Yes	800	Yes (Except TDS)
29	Rita Dyg. and Ptg. Mills Pvt.Ltd - 21183 C-1-B-7108-7110-7112,Phase No : Road No.71,PLOT NO.C-1-B-7108-7110- 7112,G.I.D.C.,SACHIN,sachin-394230,Taluka : Chorasi,District : surat, GIDC : Sachin	24/2/16/In operation	Yes	Yes	1	Yes	625	Yes (Except TDS)
30	R.D.Dyg. And Ptg. Mills Pvt.Ltd, - 21114 365,Phase No : Road No.3,PLOT NO.365,G.I.D.C.,SACHIN,sachin-394230,Taluka : Chorasi,District : surat, GIDC : Sachin	24/2/16/In operation	Yes	Yes	1	Yes	850	Yes (Except TDS, COD & BOD)-non compliance
31	Rudraksh Synthetic Pvt.Ltd.(Old Name- Nagina Processors Pvt. Ltd.), - 31110 5535,Phase No : Road No.55,PLOT NO.5535,G.I.D.C.,SACHIN,sachin- 394230,Taluka : Chorasi,District : surat, GIDC : Sachin	3/2/16/In operation	Yes	Yes	1	Yes	270	Yes (Except TDS)

32	Sanjoo Dyeing & Printing Pvt.Ltd.(Formerly:Maya Creations)-20957 8108/01,Phase No : Road No.2,PLOT NO.8108/01,G.I.D.C.,SACHIN,sachin- 394230,Taluka : Chorasi,District : surat, GIDC : Sachin	22/2/16/In operation	Yes	Yes	1	Yes	220	Yes
33	Sanjoo Prints Pvt.Ltd.(Formerly:Maya Creations)-21230 291,Phase No : Road No.2,PLOT NO.291,G.I.D.C.,SACHIN,sachin-394230,Taluka : Chorasi,District : surat, GIDC : Sachin	22/2/16/In operation	Yes	Yes	1	Yes	87	Yes
34	Sachin Dyg. And Ptg.Mills Pvt.Ltd-21203 269,Phase No : Road No.2,PLOT NO.269,G.I.D.C.,SACHIN,sachin-394230,Taluka : Chorasi,District : surat, GIDC : Sachin	22/2/16/In operation	Yes	Yes	1	Yes	800	Yes (Except TDS)
35	Sankalp Dyg. And Ptg.Mills Pvt.Ltd-21231 268,Phase No : Road No.2,PLOT NO.268,G.I.D.C.,SACHIN,sachin-394230,Taluka : Chorasi,District : surat, GIDC : Sachin	2/2/16 /In operation	Yes	Yes	1	Yes	540	Yes (Except TDS)
36	Shan Textiles Pvt.Ltd. 8205,Phase No : Road No.82,PLOT NO.8205,G.I.D.C.,SACHIN,sachin- 394230,Taluka : Chorasi,District : surat, GIDC : Sachin	23-02-2016 /In operation	Yes	Yes	1	Yes-part of the drainage passes out side their premises but there was no over flow during visit	330	Yes (Except TDS & Colour)

37	Shilpa Dyg.And Ptg.Mills Pvt.Ltd-21270 438,Phase No : Road No.4,PLOT NO.438,G.I.D.C.,SACHIN,sachin-394230,Taluka : Chorasi,District : surat, GIDC : Sachin	2/2/16 closed during visit	Yes	Yes	1	Yes	1125	Yes (Except TDS)
38	Shree Hajarimal Dyeing & Printing Mills (Old-Tirupati Poly Fab Pvt.Ltd) - 21354 438,Phase No : Road No.4,PLOT NO.438,G.I.D.C.,SACHIN,sachin-394230,Taluka : Chorasi,District : surat, GIDC : Sachin	2/2/16 /In operation	Yes	Yes	1	Yes	750	Yes (Except TDS Very High)
39	Shree Balaji Dyeing & Printing Mills (Sakshi Yarn Dyeing) 2421/B,Phase No : Road No.2,PLOT NO.2421/B,G.I.D.C.,SACHIN,sachin- 394230,Taluka : Chorasi,District : surat, GIDC : Sachin	23-02-2016 /In operation	Yes	Yes	1	Yes	68.2	Yes (Except colour)
40	Shree Kay Tex Processors Pvt. Ltd. 287,Phase No : Road No.2,PLOT NO.287,G.I.D.C.,SACHIN,sachin-394230,Taluka : Chorasi,District : surat, GIDC : Sachin	22/2/16/In operation	Yes	Yes	1	Yes	160	Yes
41	Sneha Fashions Pvt.Ltd 279,Phase No : Road No.2,PLOT NO.279,G.I.D.C.,SACHIN,sachin-394230,Taluka : Chorasi,District : surat, GIDC : Sachin	22/2/16/In operation	Yes	Yes	1	Yes	740	Yes (Except TDS)

42	Shree Chakradhar Synthetics 808/2,Phase No : Road No.2,PLOT NO.808/2,G.I.D.C.,SACHIN,sachin- 394230,Taluka : Chorasi,District : surat, GIDC : Sachin	23-02-2016 /In operation	Yes	Yes	1	Yes	447	Yes (Except Colour)

43	Sudha Dyeing & Printing Mills PVT LTD 2420 & 2422,Phase No : Road No.2,PLOT NO.2420 & 2422,G.I.D.C.,SACHIN,sachin-394230,Taluka : Chorasi,District : surat, GIDC : Sachin	2/2/16 /In oper	Yes	Yes	1	Yes	310	Yes (Except TDS)
44	S.L. Banthiya Textile Industries Pvt. Ltd. 5537/1,Phase No : Road No.55,PLOT NO.5537/1,G.I.D.C.,SACHIN,sachin-394230,Taluka : Chorasi,District : surat, GIDC : Sachin	23-02-2016 /In operation	Yes	Yes	1	Yes	220	Yes (Except Colour & TDS)
45	Sanskruti Processors Pvt. Ltd.(Suman Silk Mills Pvt.Ltd)-21403. 2409,Phase No : Road No.24,PLOT NO.2409,G.I.D.C.,SACHIN,sachin-394230,Taluka : Chorasi,District : surat, GIDC : Sachin	2/2/16 /In oper	Yes	Yes	1	Yes	295	Yes (Except TDS)
46	Sunrise Dyg. And Ptg.Mills Pvt. Ltd - 21415. 2412-2413,Phase No : Road No.24,PLOT NO.2412-2413,G.I.D.C.,SACHIN,sachin-394230,Taluka : Chorasi,District : surat, GIDC : Sachin	3/2/16/In operation	Yes	Yes	In addition to one out let to U/G drain,another industrial out let was also observed	Yes	120	Yes (Except TDS & COD)
47	Suprabhat Prints Pvt. Ltd - 21417. 803/2,Phase No : Road No.2,PLOT NO.803/2,G.I.D.C.,SACHIN,sachin-394230,Taluka : Chorasi,District : surat, GIDC : Sachin	22/2/16/In operation	Yes	Yes	1	Yes	350	Yes (Except TDS)
48	Swastik Polyprints Pvt. Ltd. 285-286,Phase No : Road No.2,PLOT NO.285- 286,G.I.D.C.,SACHIN,sachin-394230,Taluka : Chorasi,District :	22/2/16/In operation	Yes	Yes	1	Yes	320	Yes
49	Shikhar prints Pvt. Ltd.-28966. 2411/3,Phase No : Road No.24,PLOT NO.2411/3,G.I.D.C.,SACHIN,sachin-394230,Taluka : Chorasi,District : surat, GIDC : Sachin	2/2/16 /In oper	Yes	Yes	1	Yes	188	Yes (Except TDS)
50	Sakshi Processors Pvt. Ltd. 2411/2,Phase No : Road No.24,PLOT NO.2411/2,G.I.D.C.,SACHIN,sachin-394230,Taluka : Chorasi,District : surat, GIDC : Sachin	23/2/16/In operation	Yes	Yes	1	Yes	185	Yes (Except TDS)
51	Somnath Tradelink Pvt. Ltd. 719,Phase No : Road No.7,PLOT NO.719,G.I.D.C.,SACHIN,sachin-394230,Taluka : Chorasi,District : surat, GIDC : Sachin	23/2/16/closed during visit	Yes	Yes	1	Yes	152 (>CC&A Norms as per	Yes

52	Santosh Industry,P/9,Phase No : Road No.3/P,PLOT NO.P/9,G.I.D.C.,SACHIN,sachin- 394230,Taluka : Chorasi,District : surat, GIDC : Sachin	24/2/16/In operation	Yes	Yes	1	Yes	30	Yes
53	Tejoday Dyeing & Printing Works. 250/2,Phase No : Road No.2,PLOT NO.250/2,G.I.D.C.,SACHIN,sachin-394230,Taluka : Chorasi,District : surat, GIDC : Sachin	23/2/16/In operation	Yes	Yes	1	Yes	1445	Yes (Except COD)
54	Vaibhav Laxmi Tex Private Ltd. 2401,Phase No : Road No.24,PLOT NO.2401,G.I.D.C.,SACHIN,sachin-394230,Taluka : Chorasi,District : surat, GIDC : Sachin	24/2/16/In operation	Yes	Yes	1	Yes	225	Yes
55	Vaishali Silk Mills Pvt.Ltd - 21467. 290/1,Phase No : Road No.2,PLOT NO.290/1,G.I.D.C.,SACHIN,sachin-394230,Taluka : Chorasi,District : surat, GIDC : Sachin	22/2/16/closed during visit	Yes	Yes	1	Yes	790	Yes (Except TDS)
56	Varun Dyg. And Ptg.Mills Pvt.Ltd - 21472. 247/3/1,Phase No : Road No.1,PLOT NO.247/3/1,G.I.D.C.,SACHIN,sachin-394230,Taluka : Chorasi,District : surat, GIDC : Sachin	23/2/16/closed during visit	Yes	Yes	1	Yes	805	Yes (Except TDS)
57	Vimlon Dyg. And Ptg.Mlls Pvt.Ltd, - 21486 347 & 8209/A,Phase No : Road No.3,PLOT NO.347 &	23/2/16/closed during visit	Yes	Yes	1	Yes	725	Yes (Except TDS)
58	Vipul Industries Pvt.Ltd - 21493. 255-257,Phase No : Road No.2,PLOT NO.255- 257,G.I.D.C.,SACHIN,sachin-394230,Taluka :	22/2/16/In operation	Yes	Yes	1-but unit is discharging	Yes	595	Yes (Except TDS)
59	Vishwaprem Dyeing And Printing Mills Pvt.Ltd - 21502. P-6,Phase No : Road No.3,PLOT NO.P-6, Near Manila Dyeing,G.I.D.C.,SACHIN,sachin-394230,Taluka : Chorasi,District : surat, GIDC : Sachin	24/2/16/closed during visit	Yes	Yes	1	Yes	755(>CC &A Norms as per XGN	Yes (Except TDS)
60	Venus Synthetics 249/1,Phase No : Road No.2,PLOT NO.249/1,G.I.D.C.,SACHIN,sachin-394230,Taluka : Chorasi,District : surat, GIDC : Sachin	23/2/16/closed during visit	Yes	Yes	1	Yes	52	Yes (Except colour, COD & BOD)
61	Shankeswara Reyon P.Ltd.(Old - Gauri Dyeing Pvt.Ltd.) 704,Phase No : Road No.7,PLOT NO.704,G.I.D.C.,SACHIN,sachin-394230,Taluka : Chorasi,District : surat, GIDC : Sachin	22/2/16/In operation	Data not available	Data not available	1	Data not available	Data not available	Data not available

62	Sidhant Creations Pvt.Ltd.(Old - Vinod Mahesgwari C/o. Supriya Prints Pvt.Ltd.) 263 to 266,Phase No : Road No.2,PLOT NO.263 to 266,G.I.D.C.,SACHIN,sachin- 394230,Taluka : Chorasi,District : surat, GIDC : Sachin	2/2/16 /closed during visit	No CC&A expired	Yes	1 but the discharge of effluent was observ	Yes	710	Yes (Except TDS)

Annexure B

The Analysis reports of waste water, hand pump water and GIDC raw water supplied to units in GIDC Sachin)

GPCB

GUJARAT POLLUTION CONTROL BOARD
PARYAVARAN BHAVAN
Sector-10-A, **Gandhinagar**-382 010
Phone : (079) 23226295
Fax : (079) 23232156
Website : www.gpcb.gov.in

GPCB/Cen. Lab/Analysis Result/749/ 346963

- 1 MAR 2016

To,
Shri J.K.Vyas.
Head, Industrial Pollution Prevention (IPP),
Centre for Environment Education,
Thaltej Tekra,
Ahmedabad- 380054.

Sub: Waste Water sample Analysis Report.
Ref: Your letter dated 04/02/2016

Respected Sir,

Please find attached herewith the Waste Water sample Analysis Reports (8 no.) regarding samples were collected by you on 1st to 3rd February, 2016.

This for your kind information and necessary action please.

Thanks and regards.

Your faithfully

(K.B .Vaghela)
I/c Head – Central laboratory
GPCB, Gandhinagar

Source: Outlet of a Dyeing and Printing Industry located at GIDC Sachin, M/s Deepmala Dyeing and Printing

ANALYSIS REPORT

Central lab Inward/ID No : 536	# **Sample Source**: Sample No: 1
Sample Collected & Submitted by : Head of IPP, Ahmedabad Centre for Environment Education,	
Analysis Starting date: 05/02/2016	

Sr. No.	Parameter	Unit	Result
1	pH	pH	6.21
2	Color	Hazen Unit	100
3	Total Dissolved Solids	mg/l	10245
4	Suspended Solid	mg/l	173
5	Ammonia Nitrogen	mg/l	1.14
6	Chloride	mg/l	4710
7	Sulphate	mg/l	566
8	COD	mg/l	604
9	Oil & Grease	mg/l	9.2
10	Phenol	mg/l	BDL
11	Fluoride	mg/l	0.54
12	Sulphide	mg/l	2.625
13	Cyanide	mg/l	BDL
14	Iron	mg/l	0.008
15	Zinc	mg/l	0.01
16	Total Chromium	mg/l	0.306
17	Hexavalent Chromium	mg/l	BDL
18	Copper	mg/l	0.067
19	Nickel	mg/l	0.096
20	Cadmium	mg/l	0.000
21	BOD	mg/l	94
22	Hg	mg/l	0.00
23	As	mg/l	0.003
24	Pesticides	mg/l	In Process

(K.B .Vaghela)
I/c Head – Central laboratory
GPCB, Gandhinagar

POLLUTION CONTROL BOARD GUJARAT Sector-10/A Gandhinagar

Source: Colored water flowing in Canal near M/s Vishwaprem Dyeing and Printing pvt Ltd

GUJARAT POLLUTION CONTROL BOARD
Central Laboratory, Paryavaran Bhavan, Sector – 10-A, Gandhinagar- 382010
Phone: 079- 23245177/78, Email: lab-uh-gpcb@gujarat.gov.in, central.lab2014@gmail.com

ANALYSIS REPORT

Central lab Inward/ID No : 537	# **Sample Source:** Sample No: 2
Sample Collected & Submitted by : Head of IPP, Ahmedabad Centre for Environment Education,	
Analysis Starting date: 05/02/2016	

Sr. No.	Parameter	Unit	Result
1	pH	pH	7.12
2	Color	Hazen Unit	100
3	Total Dissolved Solids	mg/l	9003
4	Suspended Solid	mg/l	75
5	Ammonia Nitrogen	mg/l	26.79
6	Chloride	mg/l	3785
7	Sulphate	mg/l	140
8	COD	mg/l	463
9	Oil & Grease	mg/l	0.8
10	Phenol	mg/l	2.34
11	Fluoride	mg/l	0.19
12	Sulphide	mg/l	18.5
13	Cyanide	mg/l	BDL
14	Iron	mg/l	0.039
15	Zinc	mg/l	0.268
16	Total Chromium	mg/l	0.092
17	Hexavalent Chromium	mg/l	BDL
18	Copper	mg/l	0.024
19	Nickel	mg/l	0.00
20	Cadmium	mg/l	0.00
21	BOD	mg/l	71
22	Hg	mg/l	0.000
23	As	mg/l	0.001
24	Pesticides	mg/l	In Process

(K.B .Vaghela)
I/c Head – Central laboratory
GPCB, Gandhinagar

GUJARAT POLLUTION CONTROL BOARD Sector-10/A Gandhinagar

Source: Ground water collected from hand pump near Gabheni Crematorium

GUJARAT POLLUTION CONTROL BOARD
Central Laboratory, Paryavaran Bhavan, Sector – 10-A, Gandhinagar- 382010
Phone: 079- 23245177/78, Email: lab-uh-gpcb@gujarat.gov.in, central.lab2014@gmail.com

ANALYSIS REPORT

Central lab Inward/ID No : 538	# **Sample Source**: Sample No: 3
Sample Collected & Submitted by : Head of IPP, Ahmedabad Centre for Environment Education,	
Analysis Starting date: 05/02/2016	

Sr. No.	Parameter	Unit	Result
1	pH	pH	7.51
2	Color	Hazen Unit	30
3	Total Dissolved Solids	mg/l	8584
4	Suspended Solid	mg/l	209
5	Ammonia Nitrogen	mg/l	1.71
6	Chloride	mg/l	4235
7	Sulphate	mg/l	848
8	COD	mg/l	67
9	Oil & Grease	mg/l	1.2
10	Phenol	mg/l	BDL
11	Fluoride	mg/l	0.38
12	Sulphide	mg/l	BDL
13	Cyanide	mg/l	BDL
14	Iron	mg/l	0.031
15	Zinc	mg/l	0.000
16	Total Chromium	mg/l	0.004
17	Hexavalent Chromium	mg/l	BDL
18	Copper	mg/l	0.014
19	Nickel	mg/l	0.000
20	Cadmium	mg/l	0.000
21	BOD	mg/l	14
22	Hg	mg/l	0.000
23	As	mg/l	0.001
24	Pesticides	mg/l	In Process

(K.B .Vaghela)
I/c Head – Central laboratory
GPCB, Gandhinagar

GUJARAT POLLUTION CONTROL BOARD Sector-10/A Gandhinagar

Source: Canal near Gabheni Crematorium

ANALYSIS REPORT

Central lab Inward/ID No : 539	# **Sample Source**: Sample No: 4
Sample Collected & Submitted by : Head of IPP, Ahmedabad Centre for Environment Education,	
Analysis Starting date: 05/02/2016	

Sr. No.	Parameter	Unit	Result
1	pH	pH	7.33
2	Color	Hazen Unit	150
3	Total Dissolved Solids	mg/l	15635
4	Suspended Solid	mg/l	188
5	Ammonia Nitrogen	mg/l	171
6	Chloride	mg/l	7270
7	Sulphate	mg/l	770
8	COD	mg/l	1601
9	Oil & Grease	mg/l	8.0
10	Phenol	mg/l	BDL
11	Fluoride	mg/l	0.54
12	Sulphide	mg/l	26.0
13	Cyanide	mg/l	BDL
14	Iron	mg/l	0.023
15	Zinc	mg/l	0.000
16	Total Chromium	mg/l	0.095
17	Hexavalent Chromium	mg/l	BDL
18	Copper	mg/l	0.043
19	Nickel	mg/l	0.017
20	Cadmium	mg/l	0.000
21	BOD	mg/l	365
22	Hg	mg/l	0.000
23	As	mg/l	0.001
24	Pesticides	mg/l	In Process

(K.B .Vaghela)
I/c Head – Central laboratory
GPCB, Gandhinagar

GUJARAT POLLUTION CONTROL BOARD
Sector-10/A
Gandhinagar

Source: Colored water flowing in SWD near M/s R D Dyeing and Printing Mills Pvt Ltd

GUJARAT POLLUTION CONTROL BOARD
Central Laboratory, Paryavaran Bhavan, Sector – 10-A, Gandhinagar- 382010
Phone: 079- 23245177/78, Email: lab-uh-gpcb@gujarat.gov.in, central.lab2014@gmail.com

ANALYSIS REPORT

Central lab Inward/ID No : 540	# **Sample Source**: Sample No: 5
Sample Collected & Submitted by : Head of IPP, Ahmedabad Centre for Environment Education,	
Analysis Starting date: 05/02/2016	

Sr. No.	Parameter	Unit	Result
1	pH	pH	5.34
2	Color	Hazen Unit	60
3	Total Dissolved Solids	mg/l	3858
4	Suspended Solid	mg/l	54
5	Ammonia Nitrogen	mg/l	17.1
6	Chloride	mg/l	1500
7	Sulphate	mg/l	540
8	COD	mg/l	260
9	Oil & Grease	mg/l	0.3
10	Phenol	mg/l	BDL
11	Fluoride	mg/l	0.44
12	Sulphide	mg/l	BDL
13	Cyanide	mg/l	BDL
14	Iron	mg/l	0.047
15	Zinc	mg/l	0.000
16	Total Chromium	mg/l	0.072
17	Hexavalent Chromium	mg/l	BDL
18	Copper	mg/l	0.042
19	Nickel	mg/l	0.042
20	Cadmium	mg/l	0.000
21	BOD	mg/l	32
22	Hg	mg/l	0.000
23	As	mg/l	0.005
24	Pesticides	mg/l	In process

(K.B .Vaghela)
I/c Head – Central laboratory
GPCB, Gandhinagar

GUJARAT POLLUTION CONTROL BOARD Sector-10A Gandhinagar

Source: SIEL Inlet

GUJARAT POLLUTION CONTROL BOARD

Central Laboratory, Paryavaran Bhavan, Sector – 10-A, Gandhinagar- 382010

Phone: 079- 23245177/78, Email: lab-uh-gpcb@gujarat.gov.in, central.lab2014@gmail.com

ANALYSIS REPORT

Central lab Inward/ID No : 541	# **Sample Source**: Sample No: 6
Sample Collected & Submitted by : Head of IPP, Ahmedabad Centre for Environment Education,	
Analysis Starting date: 05/02/2016	

Sr. No.	Parameter	Unit	Result
1	pH	pH	6.61
2	Color	Hazen Unit	100
3	Total Dissolved Solids	mg/l	11461
4	Suspended Solid	mg/l	181
5	Ammonia Nitrogen	mg/l	10.83
6	Chloride	mg/l	4980
7	Sulphate	mg/l	597
8	COD	mg/l	1178
9	Oil & Grease	mg/l	2.3
10	Phenol	mg/l	BDL
11	Fluoride	mg/l	0.44
12	Sulphide	mg/l	16
13	Cyanide	mg/l	BDL
14	Iron	mg/l	0.022
15	Zinc	mg/l	0.000
16	Total Chromium	mg/l	0.082
17	Hexavalent Chromium	mg/l	BDL
18	Copper	mg/l	0.054
19	Nickel	mg/l	0.031
20	Cadmium	mg/l	0.000
21	BOD	mg/l	422
22	Hg	mg/l	0.000
23	As	mg/l	0.002
24	Pesticides	mg/l	In process

(K.B .Vaghela)
I/c Head – Central laboratory
GPCB, Gandhinagar

GUJARAT POLLUTION CONTROL BOARD Sector-10/A Gandhinagar

Source: SIEL Outlet

GUJARAT POLLUTION CONTROL BOARD
Central Laboratory, Paryavaran Bhavan, Sector – 10-A, Gandhinagar- 382010
Phone: 079- 23245177/78, Email: lab-uh-gpcb@gujarat.gov.in, central.lab2014@gmail.com

ANALYSIS REPORT

Central lab Inward/ID No : 542	# **Sample Source**: Sample No: 7
Sample Collected & Submitted by : Head of IPP, Ahmedabad Centre for Environment Education,	
Analysis Starting date: 05/02/2016	

Sr. No.	Parameter	Unit	Result
1	pH	pH	6.86
2	Color	Hazen Unit	70
3	Total Dissolved Solids	mg/l	13094
4	Suspended Solid	mg/l	152
5	Ammonia Nitrogen	mg/l	10.26
6	Chloride	mg/l	6085
7	Sulphate	mg/l	725
8	COD	mg/l	633
9	Oil & Grease	mg/l	0.8
10	Phenol	mg/l	1.34
11	Fluoride	mg/l	0.21
12	Sulphide	mg/l	5.25
13	Cyanide	mg/l	BDL
14	Iron	mg/l	0.019
15	Zinc	mg/l	0.021
16	Total Chromium	mg/l	0.025
17	Hexavalent Chromium	mg/l	BDL
18	Copper	mg/l	0.027
19	Nickel	mg/l	0.021
20	Cadmium	mg/l	0.000
21	BOD	mg/l	183
22	Hg	mg/l	0.000
23	As	mg/l	0.000
24	Pesticides	mg/l	In process

(K.B .Vaghela)
I/c Head – Central laboratory
GPCB, Gandhinagar

GUJARAT POLLUTION CONTROL BOARD Sector-10/A Gandhinagar

Annexure C

The Analysis reports of GIDC raw water supplied to units in GIDC Sachin collected during site visit on 3rd February 2016

Source: GIDC Raw water

GUJARAT POLLUTION CONTROL BOARD
Central Laboratory, Paryavaran Bhavan, Sector – 10-A, Gandhinagar- 382010
Phone: 079- 23245177/78, Email: lab-uh-gpcb@gujarat.gov.in, central.lab2014@gmail.com

ANALYSIS REPORT

Central lab Inward/ID No : 543	# **Sample Source**: Sample No: 8
Sample Collected & Submitted by : Head of IPP, Ahmedabad Centre for Environment Education,	
Analysis Starting date: 05/02/2016	

Sr. No.	Parameter	Unit	Result
1	pH	pH	8.25
2	Color	Hazen Unit	20
3	Total Dissolved Solids	mg/l	268
4	Suspended Solid	mg/l	32
5	Ammonia Nitrogen	mg/l	1.14
6	Chloride	mg/l	19.25
7	Sulphate	mg/l	24
8	COD	mg/l	19
9	Oil & Grease	mg/l	BDL
10	Phenol	mg/l	BDL
11	Fluoride	mg/l	BDL
12	Sulphide	mg/l	BDL
13	Cyanide	mg/l	BDL
14	Iron	mg/l	0.009
15	Zinc	mg/l	0.000
16	Total Chromium	mg/l	0.002
17	Hexavalent Chromium	mg/l	BDL
18	Copper	mg/l	0.036
19	Nickel	mg/l	0.000
20	Cadmium	mg/l	0.000
21	BOD	mg/l	<5
22	Hg	mg/l	0.000
23	As	mg/l	0.000
24	Pesticides	mg/l	In process

(K.B .Vaghela)
I/c Head – Central laboratory
GPCB, Gandhinagar

GUJARAT POLLUTION CONTROL BOARD
Sector-10/A
Gandhinagar

Annexure D

The copy of mail sent to GPCB on 5th February, 2016 for necessary action against the units in GIDC Sachin

CEE
Centre for Environment Education

jk vyas <jk.vyas@ceeindia.org>

NGT order dtd 5/11/15 :Observations of site visit dtd 1/2/16 to 3/2/16 at GIDC Sachin.

1 message

jk vyas <jk.vyas@ceeindia.org> 5 February 2016 at 15:26
To: kishor mistry <kcmistry62@gmail.com>

Sir,

Wrt the Hon'ble NGT order dtd 5/11/15 the above site was visited by me. After stakeholders meeting, the field visits were carried out. During my visit on 2/2/16
at M/S Sidhanta creations Pvt. Ltd at plot no; 263 to 266 GIDC Sachin the discharge of water was observed out side their industrial premises into the storm water drain of GIDC Sachin as per the photograph attached herewith.

During visit on 3/2/16 M/S Sunrise D&P Pvt LTD,plot no 2412 to 2413 GIDC Sachin was found discharging a colored waste water out side their premises on the back side of their industrial premises as per the photograph attached herewith.

M/S Prafful Industries pvt.Ltd,plot no 507, GIDC Sachin was visited on 2/2/16 and during visit the unit was found discharging effluent out side their premises in to the storm eater drain of GIDC Sachin,photo attached.

M/S Kirtida Silk Mills plot no:435,GIDC Sachin was visited on 2/2/16 and it was seen that a provision is kept for discharge by providing pipe at the compound wall but no discharge was seen during visit.Photo attached

Further during visit on 2/2/16,a dance colored waste water was found being discharged in the storm water drain of GIDC at a place opposite to M/S Prafful Industries pvt.Ltd,plot no 507, GIDC Sachin,the team of GPCB was immediately contacted and requested to rush to the site and investigate and report the matter to HO GPCB for necessary action.

This is for your information and immediate necessary action,

Thanks,

J K Vyas
Head,Industrial Pollution Prevention group
Centre for Environment Education
Centre of Excellence of Ministry of Environment, Forest
and Climate Change (MOEFCC), Govt of India
Thaltej Tekra,Bodakdev Road
Ahmedabad 380 054, Gujarat, India
Phone: 079 26844764
Cell: +919427958773

5 attachments

Prafful Industries Limited.jpg
4548K

w-w in SWD opp Prafful Ind Pvt LTd.jpg
5506K

Sunrise D&P pvt ltd.jpg
4491K

Kirtida Silk Mills.jpg
4444K

Siddhant Creations Pvt Ltd.jpg
4042K

Annexure E

The Sample data collection form, CETP Membership Certificate and Current Industrial profile of the unit as seen on web portal of GPCB (XGN)

Grey : 937[illegible]9
: 98[illegible]52

HDPL

Hindustan
DYG. & PTG. MILLS (P) LTD.

Plot No. 2411/1, Road No. 2, G.I.D.C. Sachin,
Surat - 394 230. (Guj.) India. Ph.: 0261-2397007
E-mail : hindustan2@yahoo.com

15/60

68

...for Individual Industry

No	...ails				
1.	**Name and Address of Industry**	Hindustan Dyeing & Printing. Hindustan Dyg. & Ptg. Mills Pvt. Ltd. Plot No. 2411/1, Road No. 2. G.I.D.C. Sachin, SURAT-394230.			
2.	**Contact Person**	Name	Ritesh Chaudhary.		
		Mob no	9377221914		
		E mail	hindustan2@yahoo.com		
3.	**Product & Capacity**	Products		Byproducts	
		Name	Quantity	Name	Quantity
4.	**Raw Materials**	Name		Quantity	
		Disperse Dye			
		Cloth		438651 (Meters Monthly)	
5.	**Water Consumption**	Industrial (LPD)		Domestic(LPD)	
		5946 KL/Mon		288 KL/Mon	
6.	**Source of Water**	GIDC, Tanker (30-40, Annually).			
7.	**Waste Water generation**	Industrial (LPD)		Domestic(LPD)	
		4996 KL/Mon		2[illegible] KL/Month	
8.	**Treatment and disposal plan of waste water**	Facilities			
		Equqlisation tank/PTP		oil & Grease & Zigzag	
		Flocculant		x	
		Bioreactor		x	
		Sand & Carbon filter		x	
		Ro, Membrane Filter		x	
		Sludge drying bed		✓	
		Soak Pit			
9.	**Flow meters**				

10.	Quantity of Sludge		
	Storage and Disposal of Sludge		
11.	No of Outlets		
12.	Whether the industry is connected to CETP by Pipeline	Yes,	
13.	Laboratory	Parameters	
		NA	
14.	Documentation		
15.	CC&A	• V	
16.	CTE		
17.	Membership of CETP	Yes, SITL,	
18.	Membership of TSDF	NA	
19.			

Copy of EC, CTE,CC&A, CETP and TSDF membership Certificate

Sachin Infra Environment Ltd.

ISO 14001:2004 CERTIFIED COMPANY

Regd. Off. / Plant :- Plot No. PP/2, Road No. 2 End,
B/h Key Tex Processors, G.I.D.C., SACHIN, SURAT-394 230.
Tel. : (0261) 2910349
E-mail : siel_cetp@rediffmail.com, siel.cetp@gmail.com

Ref No SIEL-117/14-15 Date. 12 / 01 / 2015

TO WHOMSOEVER IT MAY CONCERN

EFFLUENT LOAD CERTIFICATE

THIS IS TO CERTIFY THAT **M/S. HINDUSTAN DYE. & PTG. MILLS PVT. LTD.** Situated at PLOT. NO. 2411/1, ROAD NO. 2, G.I.D.C., SACHIN - 394 230 SURAT. is a Member of S.I.E.L. for **Common Effluent Treatment Facility** & as per our records the Effluent Load details of the said unit is as follows:

Total Booked Chambers in CETP	:	6 Chambers
Total Booked Effluent Load in CETP	:	420 m³ / day.
Present Effluent Load (as per CC&A)	:	200 m³ / day.

THIS CERTIFICATE IS **VALID UP 01-04-2014 TO 31-03-2015.**

FOR SACHIN INFRA ENVIRONMENT LTD.

CHAIRMAN DIRECTOR

Gujarat Pollution Control Board

Industry Profile

(Under Section 23 of The Water Act 1974, Under Section 24 of The Air Act 1981 and Under Section 10 of EP Act 1986)

Surat
PCB Id: 31451

1 **Industry Details** Hindustan Dyeing And Printing Mills (P) Ltd.
Email : hindustan2@yahoo.com
PLOT NO. 2411/1, ROAD NO. 2,, GIDC, SACHIN, SACHIN - 394230
DIST : Surat, TAL : Chorasi , SIDC : Sachin
Commissioned Dt : 01/04/2011
Production Dt : 01/04/2011
Consent Details: AWH-46495 (12/06/2016) **Owner / Group:** 11823

2 **Type/Scale/Sector/Status:** RED / MEDIUM / Yarn/ textile processing involving any effluent/ emission-generating process ,bleaching, dyeing, printing and scouring / In Operation

3 **Date and Time of Inspection** 23/01/2015 / Air , Water , Hazd

4 **Investment (Plant & Machinery) in lakhs:** 912 **Applicability of Env. Clearence :** No **# Employee :** 150

5 **Applicability of CRZ Rules :** No **Total area of Premises(Sq.MTs)/Mines(In Hectares):** 4116.000

6 **Construction area (Sq MTs)** **Green Belt :** 1235 Sq.m **Open area :** 988 Sq.m

7 **Source of water Supply & permission obtained/Applied for :** Sachin Notified Area Authority

8 **Is there any Provision for Storage of Hazardous Chemicals ?** Yes

9 **ter Consumption in KLPD With source of water supply:** **Industry:** 240.000 **Domestic:** 10.000

10 **Waste Water generation/Discharge(Kilo Lts Per Day-klpd) :** **Industry:** 200.000 **Domestic:** 9.500

11 **Consumer No.(Electric Meter):** 11823

12 **Disposal Mode of Industrial / Domestic :** Common E.T.P / Soak Pit

13 **Discharge Pt / Final Receiving Body (Ultimate):** CETP of M/s. Sachin Infra Environment Ltd. / CETP of M/s. Sachin Infra Environment Ltd.

14 **Status of water consent Under the Water Act,1974:** AWH-46495- 12/06/2016 Last Inward:93234-02/04/2015[ONL]

15 **Water Consumption Break up**
Mnfg Process - 185.0, Boiler Feed - 30.0, Cooling Water - 10.0, Wash Water - 15.0, Domestic Purpose - 10.0

16 **Effluent Treatement plant (ETP) : Units**
ETP Details : P-Chemical Dosing Tank,P-Collection Cum Equalization,P-Equalization Tank,P-Oil-Grease Trap,Primary

17 **Whether Industry is a member of CETP ?** Sachin Enviro Infra Ltd., Sachin

18 **Boilers=1 , DG Sets=1 , Borewells = 0 , Tubewells: 0 , Capacity of All = Not Applicable**
APCM Details : Bag Filter,Multi Cyclone ,Teema Cyclone Seperator
Fuel Used : Coal,Ido
Stack Attached to : *** Not Applicable,Boiler,D.G. Sets,Fuel Heater(Thermic)

19 **Env Audit Detail : Sch : 2 , Aqua-Air Environmental Engineers pvt ltd , Year :2014 , On Dt :06/02/2015**

Does it fall in SIDC/ INDUSTRIAL ESTATE/NOTIFIED AREA? In GIDC Area

Case the Industry is out side the SIDC/ INDUSTRIAL ESTATE/NOTIFIED AREA?

Distance from residencial area : 2 Kms **Distance from Forest and other ecological sensitive area :** 0 Kms

Distance from State, District or National Highway : 4 Kms

2 **TSDF Name :** Not Regd with any TSDF

4 **Lab Charges Pending :** NIL **Water Cess Charges Pending :** NIL

5 **Last Env. Form V :** 2013-2014 **Water Cess Return :** 2013-2014 **HW Monthly Return :** Not Applicable

HAZ Waste Details **Hazardous Type :**
34.3 - Chemical Sludge From Waste Water Treatment - 0.150 - M.T,5.1 - Used Spent Oil - 0.080 - M.T,33.3 - Discarded Containers / Barrels / Liners contaminated with Hazardous Wastes/Chemicals - 1.920 - M.T

List of Products
Dyeing & Printing Of Art Silk Cloth - 468000 Mts(468000), Dyeing & Printing Of Art Silk Fabrics - 468000 Mts(468000)

FOR HINDUSTAN DYG. & PTG. MILLS PVT. LTD.

Signature By DIRECTOR

ANALYSIS REPORT FOR
WATER / WASTE WATER SAMPLE

Gujarat Pollution Control Board, Sura
338, Belgium Squar
Typical 1st Floor,Opp. Linear Bus Stan
Ring Road, SURA
Tele:(0261) 244269

Sample ID:169594 - Analysis Completion 24/09/2015

Yarn/ textile processing involving any effluent/ emission-generating process ,bleaching, dyeing, printing and scouring
/ LAB inward : 22106

TEST REPORT

Test Report No. : 22106

Date: 24/09/2015

1. Name of the Customer : Hindustan Dyeing And Printing Mills (P) Ltd. - 31451
2. Address : PLOT NO. 2411/1, ROAD NO. 2,,GIDC,SACHIN
SACHIN-394230, Taluka : Chorasi, District : Surat, GIDC : Sachin
3. Nature of Sample : REP-Representative/Grab, (Insp Type : APP-On Application)
4. Sample Collected By : J.K. Patel, R.O Head
5. Quantity of Sample Received : 5 Lits
6. Code No. of the Sample : 169594
7. Date & Time of Collection & Inwarding : 04/09/2015 , (1110 to 1110) & 08/09/2015
8. Date of Start & Completion of Analysis : 08/09/2015 & 24/09/2015
9. Sampling Point : From final outlet of industry ~
10. Flow Details (Remarks) : yes
11. Mode of Disposal : In to CETP
12. Estimate Receiving Body : CETP of M/s. Sachin Infra Environment Ltd.
13. Temperature on Collection : 36 & pH Range on pH Strip :@ 7 to 8 on pH strip
14. Carboys Nos for : 2 & Color & Appearance :Light pink
15. Water Consumption & W.W.G (KLPD) : Ind :240.000 , Dom :10.000 & Ind :200.000 , Dom :9.500

Sr	Parameter	Unit	Test Method	Range of Testing	Result
1	Temperature	Centigrade	IS: 3025 (Part – 9) – 1984(Reaffirmed 2006)	Ambient oC - 60 oC	36
2	pH	pH Units	4500 H+ B APHA Standard Methods 22nd edi.2012	1 – 14 pH value As or	6.67
3	Colour	Pt.Co Sc	2120 B APHA Standard Methods 22nd edi. 2012	2 - to 99 Hazen & 1-50	20
4	Total Dissolved Solids	mg/l	Gravimetric method. (2540 C APHA Standard Methoc	10 – 200000 mg/L	7078
5	Suspended Solids	mg/l	Gravimetric method. (2540 D APHA Standard Methoc	2 – 10000 mg/L	50
6	Chloride	mg/l	Argentometric method. (4500 Cl? B APHA Standard M	1 - 50000 mg/l	3500
7	Sulphate	mg/l	APHA(22nd edi)4500 SO4 E	2-40mg/l	157
8	Chemical Oxygen Demand	mg/l	APHA (22nd Edition)- 5220 B Open Reflux Method-2	5.0- 50000 mg/l	706
9	Oil & Grease	mg/l	Liquid – Liquid Partition Gravimetric method. (5520 B	01 – 1000 mg/l	2.8
10	Phenolic Compounds	mg/l	4 Amino Antipyrene method without Chloroform Extra	0.1 – 50 mg/l	0.23
11	B.O.D (3 Days 27oC)	mg/l	3 – Day BOD test. (IS 3025 (Part 44) 1993 Reaffirmed	05–50000 mg/l	222

Laboratory Remarks : Approve By:96-r.o_96 Dt.: 24/09/2015

B.Y. Rathod, R.O Head

Annexure F

The attendance sheet and photographs indicating the presence of Stakeholders during meeting on 1/2/2016

Attendance Sheet

Attendance sheet for multi-stakeholders consultation regarding the NGT Western zone Bench, Pune Application No.50/2015(M.A. No.192/2015) and Review Application No.25/2015 on 01/02/2016 at GIDC Sachin Surat.

Sr. No	Name	Organization/Institution	Mobile Number	E mail Id and Signature
1.	Sanjit Khandekar	GIDC, Surat	9725134135	
2.	Dushyantsinh Jadeja	GIDC, Surat	9033337605	
3.	Abhishek Chavan	GIDC, Surat	9099095396	
4.	MANOJ AGARWAL	PRESIDENT	9825[illegible]-21331	
5.		SEHIN TEX Proc. Ltd.	Association	
6.	VISHNU PALIWAL	SACHIN Infra Ltd	9824198242	
7.	Vatsal Naik	G E C L.	9825116035	
8.	Binay Kumar	SIEL	7795235703	
9.	T. N. Pune	GPCB	9537[illegible]	
10.	A.P. MISHRA	GHCL NOIDA	9725522855	
11.	D. K. VAGHELA	GPCB	9687185550	
12.				

Photographs

Annexure G

The sample photographs of the units showing the arrangement done by them for discharge of effluents in to GIDC underground drain, flow meters for measurement of effluent.

Outlet of Individual unit connected to underground drainage CETP SIEL

Different type of flow meters installed in different Industries


Esc
E


FLOW TOTALIZER

Annexure H

The sample photographs showing the system provided for primary treatment in some D&P units in GIDC Sachin


BAR SCREEN
CHAMBER

Annexure I

The sample photographs showing poor housekeeping, use of flexible pipe lines and discharge of water in SWD by D&P units in GIDC Sachin


BMW


Member Of
(C. E. T. P.)

Annexure J

The photograph showing the point where final effluent discharge from CETPs and individual industries in GIDC Sachin to a point in to Unn Khadi leading to Mindhola and Satellite image of the point

Final disposal point

Satellite Image of point of Disposal of final discharge of CETPs of Sachin GIDC

Annexure K

The photographs of CETP SIEL at GIDC Sachin

Inlet of CETP SIEL

Online continuous TOC meter


FINAL OUTLET
FLOW METER

Annexure L:

Adequacy Certificate of SIEL

ANNEXURE – 26

ENVIRONMENTAL MANAGEMENT SYSTEM ADEQUACY CERTIFICATE

The Environmental audit scheme was introduced by the Hon. Gujarat High Court vide its order dated 20-12-1996 and 13-03-1997 and modified vide order dated 16-09-1999, 22-04-2010 & 23-1-2015. We are appointed by the GPCB, Gandhinagar as recognized auditor for compliance of the direction of the Hon. High Court in this matter and have carried out the environmental audit of:

M/s. Sachin Infra Environmental Ltd. (SIEL) (Common Effluent Treatment Plant)

Located at: Plot No. PP/2, Road No. 2, Behind Kay Tex Mill, GIDC, Sachin, Surat- 394 230

A. Manufacturing products & Byproducts as under:

Products	Installed Treatment Capacity in MLD as Per the consent	Actual outgoing effluent from CETP in MLD (Avg.) During the Audit Period
Treated Trade Effluent	50 MLD	45.43 MLD

As per the directions of the Hon. High Court in environmental audit scheme and based on personal monitoring (Collection of samples, Analysis), We certify that the Environmental Management System provided by this industry for the products and capacity as stated above is adequate and efficacious to achieve the quality of effluents (Air + Waste water + Solid waste) as specified/ required consent / notification by GPCB, Gandhinagar for following quantity of effluent:

Sr. No	Effluent	Consent Quantity	Status
1	Liquid Influent	50 MLD	Adequate/Inefficacious
2	ETP Sludge	25 MT/Day	Adequate/Efficacious
3	Used Oil	0.085 MT/Year	Adequate/Efficacious
4	Discarded Containers/ Barrels/Liners	120 MT/Year	Adequate/Efficacious

This certificate is valid for audit period **(Apr.–Sep. 2015)** only. However it is subjected to automatic cancellation in case of any change in product profile/capacity, quality & quantity of effluents (Air + Waste water + Solid waste) and efficiency of EMS equipments.

Signature of the authorized person

Principal
S. N. Patel Institute of technology & Research Centre
Umrakh, Ta: Bardoli, Dist: Surat

Date: 15/12/2015

Place: Umrakh-Bardoli

Annexure M:

Adequacy Certificate of GECL

ANNEXURE – 27
ENVIRONMENTAL MANAGEMENT SYSTEM ADEQUACY CERTIFICATE

The Environmental audit scheme was introduced by the Hon. Gujarat High Court vide its order dated 20-12-1996 and 13-03-1997 and modified vide order dated modified vide order dated 16/9/99, 22/04/2010 & 23/01/2015;. We are appointed by the GPCB, Gandhinagar as recognized auditor for compliance of the direction of the Hon. High Court in this matter and have carried out the environmental audit of:

a) **M/s. GLOBE ENVIRO CARE LTD. *(GECL)*(CETP)**
Located at: Plot No, PP/1, GIDC, Sachin, Surat

b) **Manufacturing products & Byproducts as under:**

PRODUCTS	Installed Treatment Capacity in MLD as Per the consent	Actual outgoing effluent from CETP in MLD (Avg.) During the Audit Period
Treating industrial waste water	0.5	0.19362

As per the directions of the Hon. High Court in environmental audit scheme and based on personal monitoring (Collection of samples, Analysis), We certify that the Environmental Management System provided by this industry for the products and capacity as stated above is adequate and efficacious to achieve the quality of effluents (Air + Waste water + Solid waste) as specified/ required consent / notification by GPCB, Gandhinagar for following quantity of effluent: state

Sr. No.	Effluent	Consent	Status
1	Raw effluent	0.5 MLD	ADEQUATE/ PARTIALLY EFFICACIOUS
2	Sewage	5 KL/ Day	ADEQUATE / EFFICACIOUS
3	Air emission	As per consent	ADEQUATE / EFFICACIOUS
4	ETP Waste	720 MT	ADEQUATE / EFFICACIOUS
5	Used Oil	0.02 MT	ADEQUATE / EFFICACIOUS
6	Discarded containers	15000 Nos./Month	ADEQUATE / EFFICACIOUS

This certificate is valid for audit period **(Apr.–Sep.'2015)** only. However it is subjected to automatic cancellation in case of any change in product profile/capacity, quality & quantity of effluents (Air + Waste water + Solid waste) and efficiency of EMS equipments.

Date: 25/01/2016

Place: Surat

Director
Man Made Textiles research Association
Surat

Annexure N

Analysis report of sample collected from final discharge of effluents of both CETPs at channel of Unn Khadi in Village Gabheni

GPCB

GUJARAT POLLUTION CONTROL B
PARYAVARAN BHAVAN
Sector-10-A, Gandhinagar-382 010
Phone : (079) 23226295
Fax : (079) 23232156
Website : www.gpcb.gov.in

GPCB/Cen. Lab/Analysis Result/749/ 347947

9 MAR 2016

To,
Shri B.Y.Rathod,
Senior Scientific Officer &
Laboratory Head- Surat,
Gujarat Pollution Control Board
Regional Office, Surat

Sub: Analysis of Water sample collected on 24/02/2016 by Shri J.K.Vyas & Shri Nandankumar (CEE, Ahmedabad)
Ref: Your letter No. GPCB/SURAT/Lab- 30/A/23/2016 dtd: 25/02/2016.

Respected Sir,

Please find attached herewith the Waste Water sample Analysis Reports (1 no.) regarding samples were Submitted by you.

This is for your kind information and necessary action please.

Thanks and regards.

Your faithfully

B.J.Bhatt

(B.J.Bhatt)
Senior Scientific Officer
Head – Central laboratory
GPCB, Gandhinagar

GUJARAT POLLUTION CONTROL BOARD
Central Laboratory, Paryavaran Bhavan, Sector – 10-A, Gandhinagar- 382010
Phone: 079- 23245177/78, Email: lab-uh-gpcb@gujarat.gov.in, central.lab2014@gmail.com

ANALYSIS REPORT

Central lab Inward/ ID No : 1025
Sample Collected by: Shri. J.K. Vyas, (CEE , Ahmedabad)
Sample Collected Date: 24/02/2016
Sample Submitted From : RO Surat
Sample Receive Date : 29/02/2016

Sr. No.	Parameter	Unit	Result
1	pH	pH	7.67
2	BOD	mg/l	398
3	Dissolve Oxygen	mg/l	N.A*
4	COD	mg/l	731
5	Total Dissolved Solids	mg/l	11732
6	Suspended Solid	mg/l	168
7	Ammonia Nitrogen	mg/l	40.04
8	NO2-N	mg/l	0.022
9	Chloride	mg/l	5485
10	Sulphate	mg/l	777
11	Oil & Grease	mg/l	8.0
12	Phenol	mg/l	BDL
13	Sulphide	mg/l	1.45
14	Zinc (Zn)	mg/l	1.52
15	Total Chromium (Cr)	mg/l	0.00
16	Hexavalent Chromium (Cr+6)	mg/l	BDL
17	Copper (Cu)	mg/l	4.21
18	Nickel(Ni)	mg/l	0.00
19	Lead (Pb)	mg/l	0.00
20	Cadmium (Cd)	mg/l	0.00
21	Mercury (Hg)	mg/l	0.00
22	Arsenic (As)	mg/l	0.00
23	Pesticides	mg/l	N.A.**

- **N.A.= Not Analysed.**

*** DO Bottle is not received**

****Pesticides sample container (2.5Lit Amber glass bottle) is not received.**

Yours Faithfully

B.J.Bhatt.

(B.J. Bhatt)
Head – Central laboratory
GPCB, Gandhinagar

Annexure O

GPCB Site visit report dated 16/1/2016

Visit report dtd 16/1/16 -

Date: 16-01-2016

Status of Open Surface Drains in Sachin GIDC area (Ref: NGT (WZ) order dated 05-11-2015 in OA 50/2015)

The various open surface drains in Sachin GIDC areas were surveyed with regard to NGT (WZ) OA no. 50/2015 and samples from flowing drains were collected. The status of drains and major parameters analyzed is tabulated as follows:

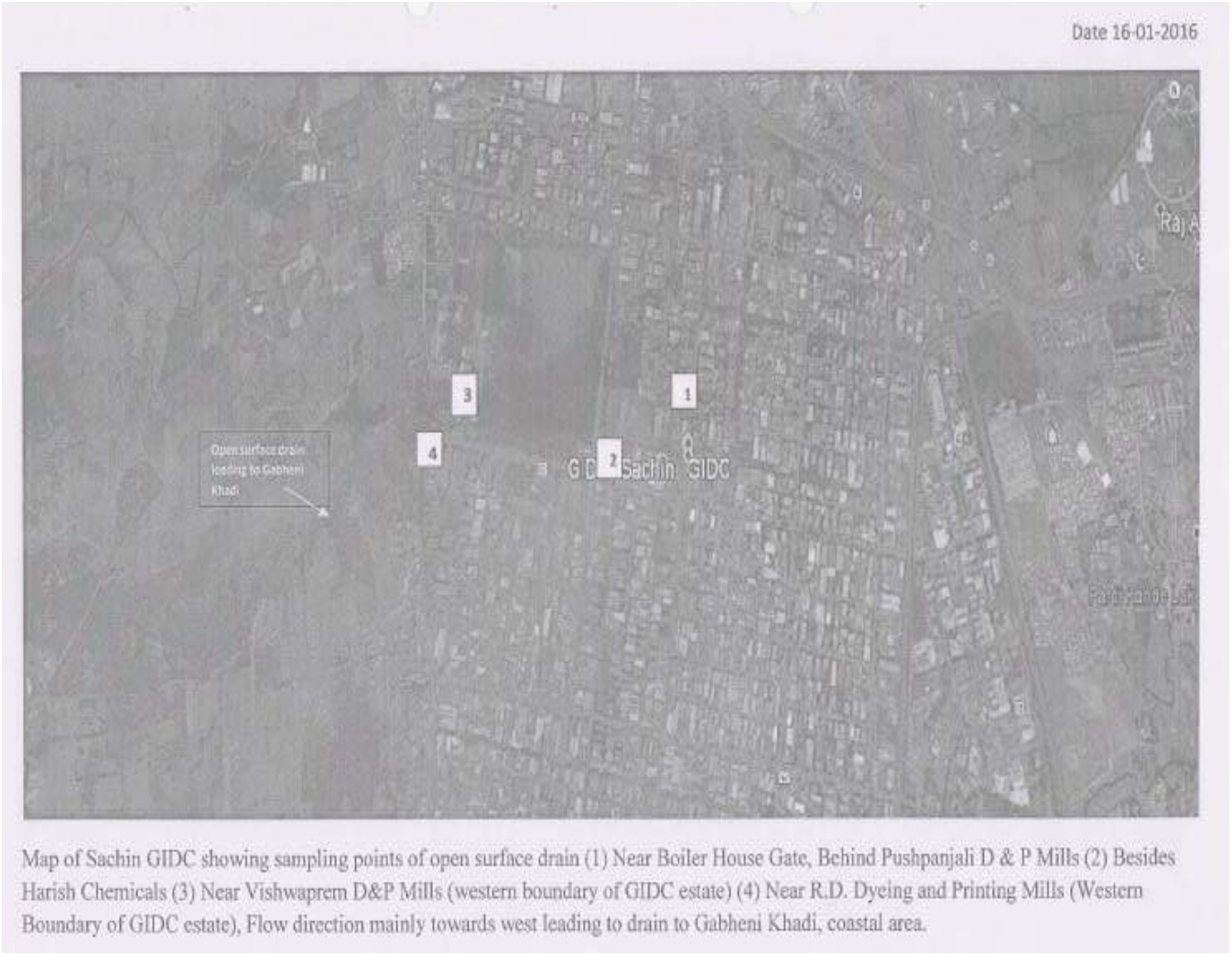
Location of Open Surface Drain	Nature of flow	Analysis results of sample collected from drain(major parameters)			
		pH	Colour(Pt-Co Scale)	S.S. mg/l	COD, mg/l
Near Boiler House Gate, Behind Pushpanjali D & P Mills	Minor Flow, light grayish in colour	7.51	30	60	97
Besides Harish Chemicals	Some accumulation and flow towards west with grayish colour	7.48	30	96	215
Near Vishwaprem D&P Mills (western boundary of GIDC estate)	flow towards Gabheni Khadi with grayish colour	6.95	80	80	256
Near R.D. Dyeing and Printing Mills (Western Boundary of GIDC estate)	flow towards Gabheni Khadi with grayish colour	6.80	70	136	268
The other open surface drains located opp. Pushpanjali D & P Mills , Besides Espee Industries Besides Nutan Dye Chem, Shree Siddhnath Ind, Besides Kashish Mills are mostly found dry and not flowing as work of laying RCC Channel by Notified Area Authority is going on in many parts of Sachin GIDC estate.					

There are about 70 textile processing (dyeing and printing) units located in Sachin GIDC and all are members of CETP of Saachin Infra Environment Ltd. (SIEL) having 50 MLD capacity. It is noticed that there are no overflows or bypassing of underground pipeline conveyance system of SIEL CETP. The SIEL CETP had carried out major revamping/ repair works of its underground drainage system and no incidence of overflow from its network noticed since last few months. The detailed inspection of 18 units in this regard carried out on 16-01-2016 and none of the units were found discharging effluent in open drains / nallas. Further, in last two months 15 other textile processing units have been inspected and all were found discharging effluent in to underground system of CETP.

Apart from CETP for textile units, there is another small CETP namely Globe Enviro Care Ltd. (GECL) in GIDC Sachin for chemical industries with 0.5 MLD capacity. There are about 40 chemical units, mainly small scale, in GIDC, Sachin. The chemical units send their effluent to GECL CETP through dedicated tankers.

It is pertinent to note that there is no drainage network for collection of sewage - domestic wastewater in Sachin GIDC estate. Hence, domestic sewage finds its way in to open surface drains of GIDC estate. The Notified Area Authority (GIDC) has been requested to lay drainage network for sewage and STP. There are about **1800** non-polluting units mainly powerlooms, engineering etc located in Sachin GIDC which is spread over 700 Ha. area. It is estimated that there is about 3 MLD generation of domestic sewage.

After the stoppage of overflows, bypasses from underground drainage system of SIEL CETP (of textile units) the flow in open surface drains has reduced substantially and mainly flow of domestic sewage is observed. However, there are incidences of unauthorized discharge of industrial effluent in open surface drains. Regular monitoring is carried out in the area and actions are taken based on findings. GPCB has issued directions of closure under the Water Act to 28 industrial units in Sachin GIDC during last one year. It is noticed that flow in surface water drains has been reduced substantially after overflow/ discharge from SIEL CETP has been curbed. Further, Notified Area Authority has undertaken RCC lining work of open drains of about 6 kms length which would further help in monitoring the flow in open surface drains. It is envisaged that provision of drainage system for domestic sewage and STP would minimize the flow in open surface drains to a great extent.



Map of Sachin GIDC showing sampling points of open surface drain (1) Near Boiler House Gate, Behind Pushpanjali D & P Mills (2) Besides Harish Chemicals (3) Near Vishwaprem D&P Mills (western boundary of GIDC estate) (4) Near R.D. Dyeing and Printing Mills (Western Boundary of GIDC estate), Flow direction mainly towards west leading to drain to Gabheni Khadi, coastal area.

Statement showing status of Dyeing and Printing Units located in GIDC Sachin w.r.to NGT (WZ) order dated 05-11-2015 in OA 50/2015

Date of Inspection: 16-01-2016

Sr	Name and Location of Unit	Whether unit is member of SIEL CETP?	Number of outlet of unit	Whether final outlet connected to underground pipeline system of CETP?	Whether there is any discharge of industrial effluent in open area, drain, nalla from the unit observed?	Details of any treatment facility at Unit level	Effluent flow/ other observations/ remarks	Whether sample collected from the final outlet?
1	Devi Processors Pvt. Ltd. Plot No. 804, Road No. 2, GIDC, Sachin.	YES	Single	YES	NO	Collection tank, screen chamber	Flow rate is 35.6 M^3/Hr, cumulative 0004503.9 M^3.	YES
2	Jay Tulsi Tex Prints Pvt. Ltd. Plot No. 806/1, Road No. 2, GIDC, Sachin.	YES	Single	YES	NO	Screen chamber	Flow rate is 32.4 M^3/Hr, cumulative 003678.56 M^3.	YES
3	Aditi Silk Mills Pvt. Ltd. Plot No. 8102, Road No. 2, GIDC, Sachin.	YES	Single	YES	NO	Collection tank, screen chamber	Flow rate is 24.3 M^3/Hr, cumulative 093075.69 M^3.	YES
4	Sanjoo Dyeing & Printing Pvt. Ltd. (Maya Creationz), Plot No. 8108/1, Road No. 2, GIDC, Sachin.	YES	Single	YES	NO	Collection tank, screen chamber	Flow meter is not provided	YES

Sr	Name and Location of Unit	Whether unit is member of SIEL CETP?	Number of outlet of unit	Whether final outlet connected to underground pipeline system of CETP?	Whether there is any discharge of industrial effluent in open area, drain, nalla from the unit observed?	Details of any treatment facility at Unit level	Effluent flow/ other observations/ remarks	Whether sample collected from the final outlet?
5	Jay Santoshi Tex (P) Ltd. Plot No. 259, 261, Road No. 2, GIDC, Sachin.	YES	Single	YES	NO	Collection tank, screen chamber	Flow rate is 10.9 M^3/Hr, cumulative 0012361.4 M^3.	YES
6	Minakshi Fashions Pvt.Ltd. Plot No. A-1/244, Road No. 2, GIDC, Sachin.	YES	Single	YES	NO	Collection tank, screen chamber	Flow rate is 23.42 M^3/Hr, cumulative 045876.80 M^3.	YES
7	Aastha Fashions Pvt. Ltd. Plot No. 702, Road No. 7, GIDC, Sachin.	YES	Single	YES	NO	Collection tank, screen chamber	Flow rate is 31.50 M^3/Hr, cumulative 051647.70 M^3.	YES
8	Jai Jinendra Prints Pvt. Ltd. Plot No. 826, Road No. 8, GIDC, Sachin.	YES	Single	YES	NO	Screen chamber	Flow rate is 28.50 M^3/Hr, cumulative 123571.91 M^3.	YES
9	Manila Processors (P) Ltd. Plot No. 348,349, Road No. 3, GIDC, Sachin.	YES	Single	YES	NO	Collection tank, screen chamber	Flow meter is not working.	YES

Sr	Name and Location of Unit	Whether unit is member of SIEL CETP?	Number of outlet of unit	Whether final outlet connected to underground pipeline system of CETP?	Whether there is any discharge of industrial effluent in open area, drain, nalla from the unit observed?	Details of any treatment facility at Unit level	Effluent flow/ other observations/ remarks	Whether sample collected from the final outlet?
15	Sachin Dyg. And Ptg. Mills Pvt.Ltd., PLOT NO.269, ROAD NO.2, GIDC Sachin - 394230	YES	Single	YES	NO	Collection Tank	Flow rate is 28.3 m3/hr Cumulative 78519.5 m3	YES
16	Sanskruti Processors Pvt. Ltd (Suman Silk Mills Pvt.Ltd), PLOT NO.2409, ROAD NO.24,, GIDC,Sachin 394230	YES	Single	YES	NO	Collection Tank	Flow rate is 40.1 m^3/hr Cumulative 403763.6 m^3	YES
17	Hindustan Dyeing And Printing Mills (P) Ltd., PLOT NO. 2411/1, ROAD NO. 2, GIDC, Sachin 394230	YES	Single	YES	NO	Screen chamber, Collection Tank	Flow rate is 44.2 m^3/hr Cumulative 91880.2 m^3	YES
18	Shan Textiles Pvt. Ltd., PLOT NO.8205, ROAD NO.82, GIDC,Sachin 394230	YES	Single	YES	NO	Collection Tank (Not in use)	Flow rate is 10.0 m^3/hr Cumulative 327875.2 m^3	YES

Statement showing status of Dyeing and Printing Units located in GIDC Sachin w.r.to NGT (WZ) order Dated 05-11-2015 in OA 50/2015

Date of Sampling : 16-01-2016

Sr	Name and Location of Unit	Barcode	Parameters				
			pH	Color Pt-Co scale	TDS, mg/l	SS mg/l	COD mg/l
1	Devi Processors Pvt. Ltd. Plot No. 804, Road No. 2, GIDC, Sachin.	CT9WF3	8.6	30	13242	148	1240
2	Jay Tulsi Tex Prints Pvt. Ltd. Plot No. 806/1, Road No. 2, GIDC, Sachin.	9I3554	7.37	80	3636	204	934
3	Aditi Silk Mills Pvt. Ltd. Plot No. 8102, Road No. 2, GIDC, Sachin.	JS3PIK	8.11	60	1824	140	944
4	Sanjoo Dyeing & Printing Pvt. Ltd. (Maya Creationz), Plot No. 8108/1, Road No. 2, GIDC, Sachin.	5EEFN6	7.73	60	4358	110	776
5	Jay Santoshi Tex (P) Ltd. Plot No. 259, 261, Road No. 2, GIDC, Sachin.	21IJMU	7.16	150	6818	228	1108
6	Minakshi Fashions Pvt.Ltd. Plot No. A-1/244, Road No. 2, GIDC, Sachin.	8EO21Q	7.69	40	3948	178	866
7	Aastha Fashions Pvt. Ltd. Plot No. 702, Road No. 7, GIDC, Sachin.	8D44YE	7.76	60	3950	170	553

Sr	Name and Location of Unit	Barcode	Parameters				
			pH	Color Pt-Co scale	TDS, mg/l	SS mg/l	COD mg/l
8	Jai Jinendra Prints Pvt. Ltd. Plot No. 826, Road No. 8, GIDC, Sachin.	H5U9E6	6.52	250	12366	294	634
9	Manila Processors (P) Ltd. Plot No. 348,349, Road No. 3, GIDC, Sachin.	J72XWK	7.36	10	2160	62	571
10	Prafful Industries Pvt. Ltd. Plot No. 507, Road No. 82, GIDC, Sachin.	14826V	8.8	30	11106	412	894
11	Pushpanjali Dyg. and Ptg. Mills Pvt. Ltd. Plot No. 5534, Road No. 55, GIDC, Sachin.	2EWJ1U	6.85	500	16076	228	615
12	Rameshwar Textiles Mills Ltd. Plot No. 827, Road No. 8, GIDC, Sachin.	H4XXC7	7.17	200	14494	204	571
13	Varun Dyg. And Ptg. Mills Pvt. Ltd. Plot No. 247/3/1, Road No. 1, GIDC, Sachin.	A58HPH	7.56	250	9530	268	852
14	Shree Kay Tex Processors Pvt.Ltd., PLOT NO.287/1,ROAD NO,.2,, G.I.D.C., Sachin 394 230	8H5OVC	6.52	30	1592	284	823

Sr	Name and Location of Unit	Barcode	Parameters				
			pH	Color Pt-Co scale	TDS, mg/l	SS mg/l	COD mg/l
15	Sachin Dyg. And Ptg. Mills Pvt.Ltd., PLOT NO.269, ROAD NO.2, GIDC Sachin - 394230	J5YM96	6.54	60	16446	294	965
16	Sanskruti Processors Pvt. Ltd (Suman Silk Mills Pvt.Ltd), PLOT NO.2409, ROAD NO.24,, GIDC,Sachin 394230	T1XTUP	6.64	100	12926	332	1010
17	Hindustan Dyeing And Printing Mills (P) Ltd., PLOT NO. 2411/1, ROAD NO. 2, GIDC, Sachin 394230	34SU81	8.41	150	12398	222	964
18	Shan Textiles Pvt. Ltd., PLOT NO.8205, ROAD NO.82, GIDC,Sachin 394230	KUQ2S8	6.95	300	15128	258	977

Statement showing status of Dyeing and Printing Units located in GIDC Sachin w.r.to NGT (WZ) order Dated 05-11-2015 in OA 50/2015

Sr	Name and Location of Unit	Date of sampling	Barcode	Parameters				
				pH	Color Pt-Co scale	TDS, mg/l	SS mg/l	COD mg/l
1	Sachin Infra Enviroment Ltd-SIEL(Final Out let of C ETP)	16-01-2016	3MVU5R	7.27	30	13562	250	362
2	Sachin Infra Enviroment Ltd(Primary Clarifier)	16-01-2016	M8O8VE	8.14	15	14038	164	605
3	Sachin Infra Enviroment Ltd /Inlet)	16-01-2016	4S7THA	6.79	200	14248	360	1079

Annexure P

Details provided by SIEL, GECL and Colortex

From: **sachin infra environment limited** <siel.cetp@gmail.com>
Date: Fri, Feb 12, 2016 at 3:22 PM
Subject: Details of CETP of SIEL - Sachin
To: jk vyas <jk.vyas@ceeindia.org>

Respected Sir,

In connection with your mail for the required details / information, we herewith submitted all required details with attachments for your ready reference. if you need any further clarification of information from our CETP kindly inform us.

1. capacity of w/w treatment of CETP.

50 MLD –please referred **Annexure-1** for treatment unit with specification.

2. average quantity and quality of raw and treated effluent.

Average raw effluent – 44.5 MLD, average treated effluent – 44.0 MLD, Average raw effluent quality and treated effluent quality is attached herewith Vide **Annexure- 2** for your ready reference.

3. numbers of members.

70, List of member industries are attached herewith Vide **Annexure- 3** for your ready reference.

4.type of the member industries (category wise)

All member industries are textile processing Unit (Dyeing & Printing , Dyed yarn, Digital printing, etc)

5. no. of red ,orange and green as well as large,medium and small category of units having CETP membership,

All unit are covered under the Red categories and most of the industries are small and medium scale unit.

6. whether CETP has fixed inlet norms for their members,whether member units are required to provide treatment to their w/w,if so what is the type of treatment they are supposed to give and for what parameters?

Inlet norms of CETP is attached herewith Vide **Annexure-4** for your ready reference. all member industries are textile processing unit and effluent characteristic are mostly same, we have carried out details study before establishment of CETP scheme and base on that we have decided Inlet norms, for the achieving inlet norms all member industries have install Screen bar chamber to avoid chindi waste along with effluent, Oil & Grease trap and equalization tank before sending there effluent to CETP.

7. date of issue of CC&A and its validity,

Renewal of CCA is issue on dated 24/09/2014 and its valid up to 29/05/2020, copy of the valid CCA is attached herewith Vide **Annexure-5** for your ready reference.

8. present waste water load (m3/day) and average w/w volume in a year.

Please referred Reply of point No-2

9. system for collection ,treatment and disposal of the trade effluent of CETP.

Please referred Annexure-1

10. numbers of tankers along with their capacity to receive w/w from member units, whether the tankers are dedicated for w/w collection from member units.

Not applicable for us, we have install under ground pipe line for the collection of effluent from member industries to CETP.

11. whether GPS/menifest system is used for trekking the movement of w/w of member units to CETP,

Not applicable for us, we have install under ground pipe line for the collection of effluent from member industries to CETP.

12. what is the final point of disposal of treated effluent ?

Unn khadi – about 5.1 Km long pipe line install by GIDC.

13. whether performance evaluation of CETP is done in recent past, if so that report,

As part of Environmental Audit scheme Schedule one auditors are regularly check the performance of CETP and issue us certificate time to time.

14. system for treatment of sewage and its disposal for CETP members,

GIDC has not install STP plant.

15. whether flow meters are provided at the inlet and out of CETP,whether its record is maintained,

Flow meter is install at Inlet and outlet of CETP and also install at final outlet of all member industries, we have given order for the installation of SCADA system, so that all member

industries effluent flow and CETP inlet effluent flow will maintain online. copy of the work order issue to supplier is attached herewith Vide **Annexure-6**

16. whether online monitoring of parameters like pH ,COD (TOC) at the outlet of CETP is done and this system is attached to CETP as well as GPCB servers for record and necessary action

Online TOC meter is install at final outlet of CETP and process for the the connectivity with GPCB servers is going on.

17. whether separate energy meter is provided for CETP,

Yes

18. what is the system and what are the powers of CETP management to punish the erring units?

Management has power to take action against non compliance member industries and also have power to suspend the membership of CETP.

19. whether GPCB is contacted for action against the erring units,if so details of no of such units in last six months,

We have just establish the committee and will submit the report to GPCB once any non compliance unit found.

20. details about violation by CETP recently and GPCB action in this regard.

No any violation by CETP, except the non compliance of disposal norms and for the same we have already submitted the Action plan with Bank guarantee.

21. details of sludge generation (T/D) ,its storage,treatment and method of disposal. (TSDF member ship)

about 15- 20 MT/Day of ETP sludge is generate and for the disposal of ETP sludge we have take membership of TSDF site of M/s. SEPPL, Copy of the membership certificate is attached herewith Vide **Annexure- 7**.

Thanking You,

Vishnukant Paliwal

(Chairman)

Sachin Infra Environment Limited

Common Effluent Treatment Plant

Plot No PP/2. Behind Key-Tex Mills

End Of Road No-2, G.I.D.C, Sachin

Surat-394230

Tele No-(0261 2910349)

Sachin Infra Environment ltd.

CIN : U29197G1998PLC033820

(COMMON EFFLUENT TREATMENT PLANT) (ISO : 14001:2004 CERTIFIED COMPANY)

Regd. Off. / Plant: Plot No. PP/2, End of Road No. 2, B/H Kay Tex Processors P. Ltd.,
G.I.D.C. INDUSTRIAL ESTATE, SACHIN-SURAT-394 230.
Tel. No. (0261) 2910349
E-mail : siel_cetp@rediffmail.com **/** siel.cetp@gmail.com

PROCESS FOR THE TREATMENT OF EFFLUENT

1. **Measurement of flow** of individual member units with the help of flow meter. Also grab analysis of effluent from member units to be done once every week for normal parameters like color, S/S, COD, TDS.

2. **Pumping of effluent from GIDC pumping station to CETP collection tank**. Flow meters are installed by member industries before discharge into Effluent Drainage Pipe Line in G.I.D.C. Sachin.

3. **Collection / Equalization in two numbers of collection tanks**. Effluent parameters are to be analyzed once every eight hours, till the CETP is stabilized. The frequency of sampling can be reduced at a later date. Effluent transfer pumps installed in the pump room pump the equalized effluent into flash mixer.

4. **Preparation of required quantity of reagents** like lime, ferrous sulfate, polyelectrolyte for Primary CETP and Urea / DAP / Alum for secondary CETP.

5. **Flash Mixer:** Dozing and mixing of proper quantity of reagents with effluent in flash mixers connected in series.

6. **Flocculation**: Flocculation in flocculation channel with the help of Polyelectrolyte.

7. **Lamella Type Primary Clarifier:** Separation of settled sludge into hopper portion of lamella. Overflow of clarified primary treated effluent into channel for discharge into Aeration Tank.

8. **Dewatering of Primary sludge:** The settled sludge is drained into sludge collection pit, from where it pumped to the filter press section for dewatering the solid waste. The sludge is discharged into trailer / dumper for final disposal into approved TSDF site. The clear filtrate is either returned to aeration tank or primary treatment system.

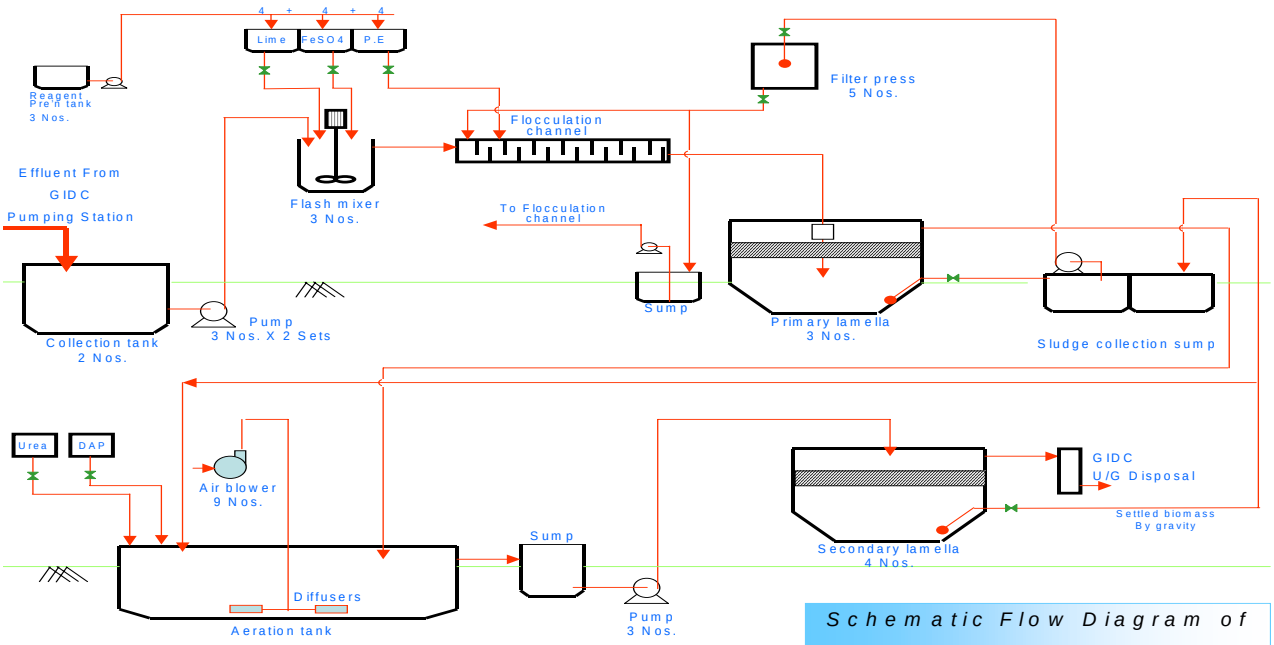
Biological Treatment Under Aerobic conditions: The overflow from primary lamella is taken to aeration tank (two in numbers) where the effluent is biologically treated with the help of active biomass under aerobic conditions (extended aeration principles). Required quantity of oxygen is provided by compressed air by means of twin lobe blowers and fine bubble diffuser system. The

9. required concentration level of biomass is maintained by recycling part of the settled biomass from secondary lamella. The overflow of aeration tank is taken into a sump by gravity, from where it pumped into secondary lamella system.

10. **Secondary Lamella:** The effluent from aeration tank containing active mass is passed through lamella; the settled biomass is withdrawn from the bottom of the lamella by gravity. Partly it is recycled into aeration tank for maintaining required level of biomass in the aeration tank and the balance quantity is drained into sludge sump for pumping into filter press area for dewatering the sludge.

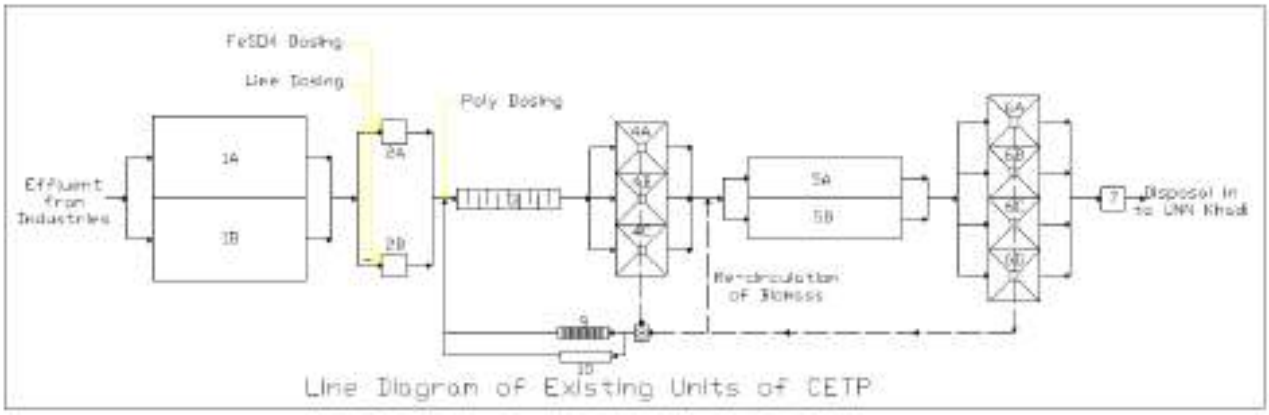
DETAILS OF ETP UNITS:

Sr. No.	ETP Unit	Dimension (m)	Total Capacity (m^3)
1	Equalization tank (2 Nos.)	100 x 65 x 4.5	58500
2	Flash mixers (2 Nos.)	3.5 x 3.5 x 4.75	116.4
3	Flocculation Vessel	--	58.18
4	Primary Lamella Clarifier (3 Nos.)	13 x 13 x 3	1521
5	Aeration tank (2 Nos.)	100 x 23 x 4.5	20700
6	Secondary Lamella Clarifier (4 nos.)	13 x 13 x 3	2028
7	Filter Press (5 Nos.) (Plate and frame type filter press)	Plate dimension : 1200 mm x 1200 mm No. of Chamber 78 in 3 press & 58 in 2 press	
8	Belt press / Sludge decanter house (2 Nos.)	Continuous sludge dewatering from	15 m^3/hour capacity of each



Schematic Flow Diagram of CETP, SACHIN

MODE OF DISPOSAL OF EFFLUENT		
Existing :-		
Industrial :	**Total Effluent Generated**	**50,000 KL/Day**
	Mode of Disposal	
	Treated effluent is discharged into GIDC underground drainage system & ultimately conveyed to Unn Khadi for final disposal through 5.1 Km long pipeline.	
Domestic :	**Total Sewage Generated**	2.2 KL/Day
	Mode of Disposal	Discharged in to the Septic Tank / Soak Pit System.



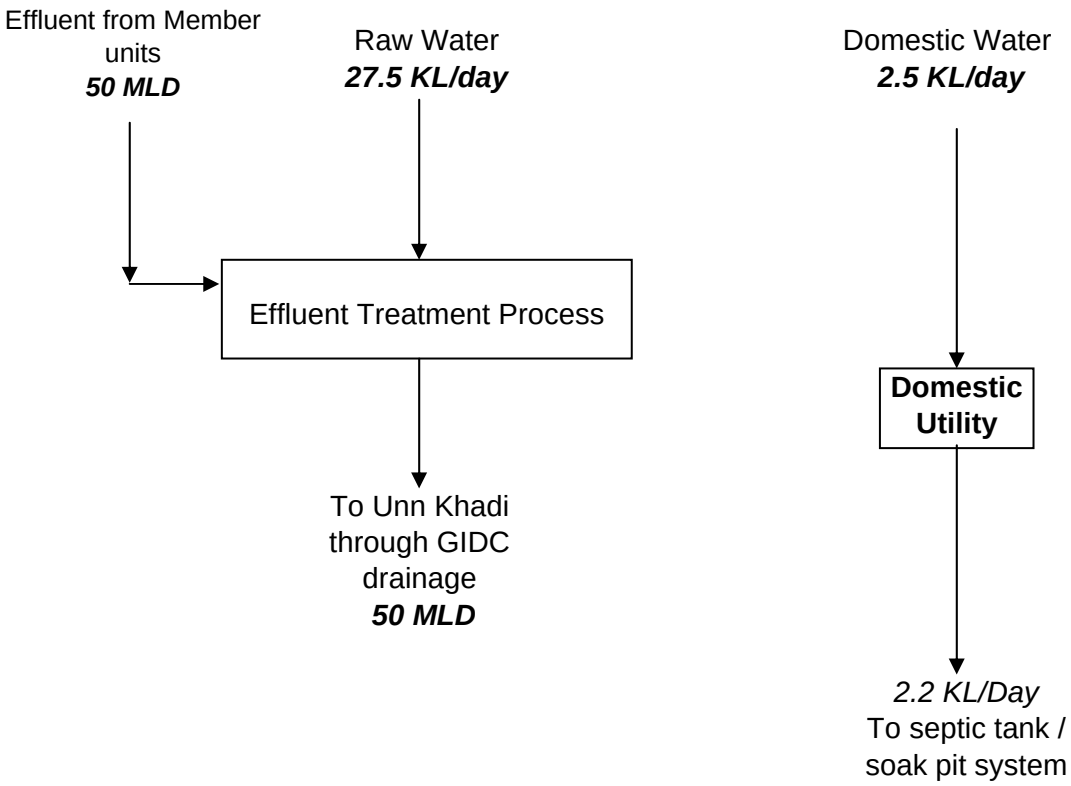
Line Diagram of Existing Units of CETP

Sr. No.	ETP Unit	Sr. No.	ETP Unit
1	Equalization tank (2 Nos.)	6	Secondary Lamella Clarifier (4 nos.)
2	Flash mixers (2 Nos.)	7	Treated Water Sump
3	Flocculation Vessel	8	Sludge Sump
4	Primary Lamella Clarifier (3 Nos.)	9	Filter Press
5	Aeration unit (2 Nos.)		

WATER BALANCE DIAGRAM

Sources of Wastewater Generation

The total effluent from the member industries is collected in the underground Equalization Tank of Effluent Treatment Plant.



Source of Water :- Sachin Infra Management Ltd.

LAST SIX MONTHS AVERAGE RAW & TREATED EFFLUENT CHARACTERISTICS

Sr. No.	Parameters		Raw Effluent		Treated Effluent
1	**pH**		7		7.75
2	**Color**		100		55
3	**TDS**		9150		5124
4	**SS**		240		54
5	**Chloride**		4900		3500
6	**Sulphate**		567		444
7	**COD**		1008		350
8	**Oil & Grease**		6.8		2.4
9	**Phenolic Compound**		0.48		0.25
10	**Sulphide**		4		2.13
11	**BOD**		313		70

LIST OF MEMBERS UNITS OF S.I.E.L.

Sr. No.	Member Name	Effluent Load	Status
1	Aastha Fashions Pvt. Ltd.	910	RUNNING
2	Aditi Silk Mills Pvt. Ltd.	1120	RUNNING
3	Amit Poly Prints Pvt. Ltd.	560	RUNNING
4	Aklavya Industries Pvt. Ltd.	1330	RUNNING
5	Armaan Industries Pvt. Ltd.	1050	RUNNING
6	Asian Dyg. & Ptg. Mills	70	RUNNING
7	Baid Narrow Feb Pvt. Ltd.	70	RUNNING
8	Devi Processors Pvt. Ltd.	420	RUNNING
9	Ess Pee Industries (Guj.) Ltd.	700	RUNNING
10	Ginza Industries Limited	840	RUNNING
11	Gomti Processors Ltd.	350	RUNNING
12	Gopal Krishna Prints	280	RUNNING
13	Hi-Choice Processors Pvt. Ltd.	910	RUNNING
14	Hindusthan Dye. & Ptg. Mills P. Ltd.	840	RUNNING
15	Jai Tulsi Tex Prints Pvt. Ltd.	840	RUNNING
16	Jay Jinendra Prints Pvt. Ltd.	770	RUNNING
17	Jay Santoshi Tex Prints Pvt. Ltd.	910	RUNNING
18	Kashish Silk Mills Pvt. Ltd.	490	RUNNING
19	Kirtida Silk Mills	910	RUNNING
20	Kusum Silk Mils Pvt. Ltd.	980	RUNNING
21	Minakshi Fashions Pvt. Ltd.	1120	RUNNING
22	Neminath Fabrics Pvt. Ltd.	770	RUNNING
23	Prafful Industries Pvt. Ltd.	1610	RUNNING

24	Pushpanjali Dyg. & Ptg. Mills P. Ltd.	910	RUNNING

Sr. No.	Member Name	Effluent Load	Status
25	Rajhans Silk Mills Pvt. Ltd.	630	RUNNING
26	Rameshwar Textile Mills Ltd.	700	RUNNING
27	Rivaa Exports Ltd.	700	RUNNING
28	Rita Dyg. & Ptg. Mills Pvt. Ltd.	770	RUNNING
29	R. D. Dye. & Ptg. Mills Pvt. Ltd.	700	RUNNING
30	Rudraksh Synthetics P. Ltd.	700	RUNNING
31	Vaibhav Laxmi Tex Prints Pvt. Ltd.	770	RUNNING
32	Sanjoo Dye. & Ptg. Mills Pvt. Ltd.	840	RUNNING
33	Sanjoo Prints Pvt. Ltd.	980	RUNNING
34	Sachin Dyg. & Ptg. Mills Pvt. Ltd.	700	RUNNING
35	Sankalp Dye. & Ptg. Mills Pvt. Ltd.	630	RUNNING
36	Shan Textile Pvt. Ltd.	1050	RUNNING
37	Shilpa Dye. & Ptg. Mills Pvt. Ltd.	1260	RUNNING
38	Shree HajarimalDyg. & Ptg. Mills P. Ltd.	770	RUNNING
39	Shree BalajiDyg. & Ptg. Mills P. Ltd.	70	RUNNING
40	Shree Kay Tex Processors Pvt. Ltd.	350	RUNNING
41	Sneha Fashions Pvt. Ltd.	980	RUNNING
42	Shree Chakradhar Synthetics	980	RUNNING
43	Sudha Dyg. & Ptg. Mills P. Ltd.	840	RUNNING
44	S. L. Banthia Textile Ind. Pvt. Ltd.	840	RUNNING
45	Sanskruti Processors Pvt. Ltd.	840	RUNNING
46	Sunrise Dye. & Ptg. Mills (P) Ltd.	1050	RUNNING
47	Suprabhat Prints Pvt. Ltd.	910	RUNNING

Sr. No.	Member Name	Effluent Load	Status
48	Swastik Poly Prints Pvt. Ltd.	1050	RUNNING
49	Shikhar Prints Pvt. Ltd.	910	RUNNING
50	Sakshi Processors Pvt. Ltd.	910	RUNNING
51	Somnath Tradlink Pvt. Ltd.	350	RUNNING
52	Santosh Industries	140	RUNNING
53	Tejoday Dyeing & Printing Works	770	RUNNING
54	Vaishali Silk Mills Pvt. Ltd.	630	RUNNING
55	Varun Dyg. & Ptg. Mills Pvt. Ltd.	770	RUNNING
56	Vimlon Dyg. & Ptg. Mills Pvt. Ltd.	910	RUNNING
57	Vipul Industries Pvt. Ltd.	770	RUNNING
58	Vishwaprem Dyg. & Ptg. Mills P. Ltd.	770	RUNNING
59	Venus Fibers Ltd.	350	**CLOSED**
60	Venus Synthetics	70	RUNNING
61	Murlidhar Threads	140	
62	Rudraa Digital Solutions	70	
63	S. M. Digital	70	
64	Shruti Fashions Pvt. Ltd.	70	
65	Rangoli Texturisers P. Ltd.	70	
66	Sankeshwara Rayon Pvt. Ltd. Old Shree Gauri Fashions P. Ltd.	70	**CLOSED**
67	Glory Processors LLP	840	**CLOSED**
68	Priyadarshni Synthetics Ltd.	630	**CLOSED**
69	Vinod Kumar Maheshwari C/o. Supriya Prints Pvt. Ltd.	1120	RUNNING
70	Manila Processors Pvt. Ltd.	560	RUNNING

Sachin Infra Environment ltd.

CIN : U29197G1998PLC033820

(COMMON EFFLUENT TREATMENT PLANT) (ISO : 14001:2004 CERTIFIED COMPANY)

Regd. Off. / Plant: Plot No. PP/2, End of Road No. 2, B/H Kay Tex Processors P. Ltd.,
G.I.D.C. INDUSTRIAL ESTATE, SACHIN-SURAT-394 230.
Tel. No. (0261) 2910349
E-mail : siel_cetp@rediffmail.com / siel.cetp@gmail.com

Parameters	Inlet norms
pH	6.5 - 8.5
SS, mg/l	300
TDS, mg/l	2100
BOD, mg/l	400
COD, mg/l	1000
O & G, mg/l	10
NH_3 - N, mg/l	50
Cyanide, mg/l	-

SEPPL

SAURASHTRA ENVIRO PROJECTS PVT. LTD.

Integrated Common Hazardous Waste Management Facility

Regd. Office : 3rd Floor, K.G. Chambers, Udhna Darwaja, Ring Road, Surat - 395 002.

Ph. +91-261-225 1248, 2346181, 6452205 Fax +91-261-2364068 E-mail : sepplindia@gmail.com Website : www.sepplindia.com

ISO 14001:2004 Certified

Certificate

Certificate No: CSS136

To Whomsoever it may concern

This is to certify that

SACHIN INFRA ENVIRONMENT LTD

PLOT NO. PP/2 ROAD NO.2
B/H KAY TEX PROCESSORS
G.I.D.C SACHIN
SURAT

is a valid member of

SAURASHTRA ENVIRO PROJECTS PVT. LTD.

for Integrated Common Hazardous Waste Management Facility.

This membership is valid for a period of

5 Years

Date of issue : ***10/04/2013***
Date of expiration : ***09/04/2018***
Place of issue : ***Surat***

For,Saurashtra Enviro Projects Pvt. Ltd.

Director/Authorised signatory

SUBJECT TO SURAT JURISDICTION

Site : R. S. No. 415, 417 & 418, Village : Jura Katariya, B/h. Gail Pump Station, Samakhiyali - Randhenpur Highway, Taluka : Bhachau, District - Kutch.

BHARUCH ENVIRO INFRASTRUCTURE LIMITED

Date 20/10/2012

To,
Sachin Infra Environment Ltd.
Plot No.PP/2, Road No.2,
B/H. Kay Tex Mill, GIDC,
Sachin, Surat – 394 230.

Sub : Membership Certificate for Common Solid Waste Disposal Facility.

Dear Sir,

We hereby certify that you have become **member** for the common Solid/Hazardous waste disposal facility of Bharuch Enviro infrastructure Ltd., at GIDC, Ankleshwar. You have booked solid waste quantity of **250 MT/year.** You have also paid your capacity commitment charges. Your Membership No. is **Oth/226.**

Waste will be accepted after submitting valid authorization of GPCB.

Thanking you,

Yours faithfully,
For BHARUCH ENVIRO INFRASTRUCTURE LTD.

AUTHORISED SIGNATORY

Colourtex Industries Private Limited (Unit-1)
(Formerly known as Colourtex Industries Limited)
CIN : U24231GJ1969PTC012922
Correspondence Address: Plot No. 158/3, B/h. Fire Station, G.I.D.C. Pandesara, Surat – 394 221
Factory Address: Block Nos. 272/P, 273/P, 274, 278/P, 283/P, 284/P, 285 to 288, 294 to 297, 310 & Plot Nos. 288/1, 288/2, 289/1, 289/2, 6108/2, G.I.D.C. Sachin, Dist. Surat - 394 230, Gujarat – INDIA.
Tel: + 91 261 2890122 | Fax: + 91 261 2891011
e-mail: env@colourtex.co.in

colourtex® The Dyestuff Company

ID:20632

- **Capacity of Waste Water Treatment of CETP**

  Capacity: 10,000 m3/day

- **Average quantity and quality of raw and treated effluent**

  Average Quantity of Low COD Effluent: 1600-1700 m3/day

  Average Quantity of High COD Effluent: 180-220 m3/day

  Please refer Annexure-1 for the quality of raw & treated effluent.

- **Numbers of Members**

  1. Colourtex Industries Pvt. Ltd. (Unit-1), Sachiin
  2. CTX Lifesciences Pvt. Ltd.

- **Type of the member industries (category wise)**

Sr. No.	Name of Industries	Category
1	Colourtex Industries Pvt. Ltd. (Unit-1)	Dyes & Intermediate
2	CTX Lifesciences Pvt. Ltd.	Pharmaceuticals

- **No. of red ,orange and green as well as large, medium and small category of units having CETP membership,**

  Both the Industries are of Red & Large Scale Category

- **Whether CETP has fixed inlet norms for their members, whether member units are required to provide treatment to their w/w, if so what is the type of treatment they are supposed to give and for what parameters?**

  Low COD (< 4000 mg/l) & high concentrated (> 4000 mg/l) effluent is segregated by both the units and treated separately in CETP and common MEE & incinerator

  No treatment is provided by the member units.

Colourtex Industries Private Limited (Unit-1)
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ID:20632

- **Date of issue of CC & A and its validity**

Sr. No.	Name of Industries	Date of issue of CC&A	Validity
1	Colourtex Industries Pvt. Ltd. (Unit-1)	25/6/2013	13/08/2017
2	CTX Lifesciences Pvt. Ltd.	20/8/2011	03/03/2016

- **Present waste water load (m3/day) and average w/w volume in a year,**

Present Low COD Wastewater Load: @ 1680.07 m3/day
Present Low COD Wastewater volume in a Year: 601468 m3/Year

Present High COD Wastewater Load: @ 198.58 m3/day
Present High COD Wastewater volume in a Year: 710933 m3/Year

Sr. No.	Name of Industries	Waste Water in M^3/day	Waste Water volume in a year m3/Year
	Low COD Wastewater		
1	Colourtex Industries Pvt. Ltd. (Unit-1)	@ 1557.64	557636
2	CTX Lifesciences Pvt. Ltd.	@ 122.43	43832
	High COD Wastewater		
1	Colourtex Industries Pvt. Ltd. (Unit-1)	@ 181.79	65081
2	CTX Lifesciences Pvt. Ltd.	@ 16.79	6012

- **System for collection, treatment and disposal of the trade effluent of CETP,**

CETP is located at Colourtex Industries Pvt. Ltd. (Unit-1). The low COD effluent is collected through drains from Colourtex Industries Pvt. Ltd. (Unit-1) & CTX Lifesciences Pvt. Ltd. low COD effluent is transferred through pipeline to CETP located at Colourtex Industries Pvt. Ltd. (Unit-1).

High COD effluent of Colourtex Industries Pvt. Ltd. (Unit-1) & CTX Lifesciences Pvt. Ltd. is collected through pipeline separately at Colourtex Industries Pvt. Ltd. (Unit-1).

Colourtex Industries Private Limited (Unit-1)
(Formerly known as Colourtex Industries Limited)
CIN : U24231GJ1989PTC012922
Correspondence Address: Plot No. 158/3, B/h. Fire Station, G.I.D.C. Pandesara, Surat – 394 221
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Tel: + 91 261 2890122 | **Fax:** + 91 261 2891011
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ID:20632

The low COD effluent is treated in CETP having Primary, Secondary & Tertiary treatment facilities. The treated effluent is discharged into GIDC discharge pipeline.

High COD effluent is treated in MEE & liquid waste incinerator.

- **Numbers of tankers along with their capacity to receive w/w from member units , whether the tankers are dedicated for w/w collection from member units,**

Wastewater is transferred from CTX Lifesciences Pvt. Ltd. through pipeline to CETP located at Colourtex Industries Pvt. Ltd. (Unit-1). No tankers are used to transfer wastewater.
Flowmeters are provided on the effluent transfer line of CTX Lifesciences Pvt. Ltd.

- **Whether GPS/menifest system is used for trekking the movement of w/w of member units to CETP,**

Not Applicable

- **What is the final point of disposal of treated effluent ?**

The treated effluent is discharged in to GIDC discharge pipeline.

- **Whether performance evaluation of CETP is done in recent past, if so that report,**

Performance evaluation is done by Schedule I auditor during audit period. A copy of the report for the year 2014 is attached herewith at Annexure-2.

- **System for treatment of sewage and its disposal for CETP members,**

Sewage is treated with industrial effluent in CETP and disposed to GIDC discharge pipeline.

- **Whether flow meters are provided at the inlet and out of CETP, whether its record is maintained,**

Yes, flow meters are provided at the inlet and outlet of CETP and its records are maintained.

- **Whether online monitoring of parameters like pH, COD (TOC) at the outlet of CETP is done and this system is attached to CETP as well as GPCB servers for record and necessary action**

Yes, online monitoring of parameters like, pH, COD (TOC), flow at the outlet of CETP is done. The connectivity with GPCB server is provided.

- **Whether separate energy meter is provided for CETP**

Yes.

Colourtex Industries Private Limited (Unit-1)
(Formerly known as Colourtex Industries Limited)
CIN : U24231GJ1989PTC012922
Correspondence Address: Plot No. 158/3, B/h. Fire Station, G.I.D.C. Pandesara, Surat – 394 221
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Tel: + 91 261 2890122 | Fax: + 91 261 2891011
e-mail: env@colourtex.co.in

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- **What is the system and what are the powers of CETP management to punish the erring units?**

  Not Applicable, as the both the units are Sister Concerns. They are managed by common management and they have Common Effluent Treatment Plant.

- **Whether GPCB is contacted for action against the erring units, if so details of no of such units in last six months,**

  Not Applicable.

- **Details about violation by CETP recently and GPCB action in this regard.**

  No violation.

- **Details of sludge generation (T/D), its storage, treatment and method of disposal. (TSDF member ship)**

  Details of Colourtex Industries Pvt. Ltd. (Unit-1)

Sr. No.	Name of Waste	Sludge Generation in MT/day	Storage	Treatment & Method of Disposal
1	ETP Sludge	30-40	Stored under the Shed provided with Impervious floor & leachate collection facility	Disposed at Group Companies Own TSDF Site and also at TSDF Site of Saurshtra Enviro Projects Pvt. Ltd., Bhachau/ Sold to Cement Manufacturing Industries
2	Process Gypsum	70-80		
3	Iron Oxide Waste	13-16		
4	Organic Sludge	0.1-0.5	Stored in Drum/bags	Transferred at M/s. Colourtex Industries Pvt. Ltd. (Unit-2), Pandesara for incineration in the Solid Waste Incinerators or transfer for Co-processing in the cement kiln of M/s. Ultratech Cement Ltd. Narmada Cement-Jafrabad Works, Amreli & Ultratech Cement Ltd. Unit: Gujarat Cement Works, P.O. Kovaya, Tal: Rajual, Dist. Amreli.
5	Spent Carbon	0.02-0.04	Stored in Drum/bags	
5	Incinerated Ash	0.8-1	Stored under the Shed provided with Impervious floor & leachate collection facility	Disposed at Group Companies Own TSDF Site and also at TSDF Site of Saurshtra Enviro Projects Pvt. Ltd., Bhachau
6	Oily Sludge	0.008-0.012	Stored in Drum	Incineration in the liquid waste incinerator
7	Used Oil	0.003	Stored in Drum	

Registered Office: Survey No.80 Bhestan, G.I.D.C. Pandesara, Surat – 394 221, Gujarat - INDIA.
Tel: + 91 261 2890122,2890775 | Fax: + 91 261 2891011

Colourtex Industries Private Limited (Unit-1)
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colourt
The Dyestuff Co

ID:20632

Details of CTX Lifesciences Pvt. Ltd.

Sr. No.	Name of Waste	Sludge Generation in MT/day	Storage	Treatment & Method o Disposal
1	Distillation Residue	0.2-0.3	Stored in Drum	Burnt in the common li waste incinerator at Colourtex Industries Pvt. (Unit-1), Sachin as a fuel
2	*Spent Solvent*	0.15-0.35		
4	Spent Carbon	0.1-0.250	Stored in Drum/bags	Transfer at M/s. Colou Industries Pvt. Ltd. (Uni Pandesara for incineration the Solid Waste Incinerato send for Co-processing
5	Off Specification Product	0.011	Stored in Drum/bags	Transfer at M/s. Colou Industries Pvt. Ltd. (Uni Pandesara for incineratio the Solid Waste Incinerators
6	Used Oil	0.0008-0.0012	Stored in Drum	Burnt in the common li waste incinerator at Colourtex Industries Pvt. (Unit-1), Sachin as a fuel

:olourtex Industries Private Limited (Unit-1)
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actory Address: Block Nos. 272/P, 273/P, 274, 276/P, 283/P, 284/P, 285 to 288, 294 to 297, 310 &
ot Nos. 288/1, 288/2, 289/1, 289/2, 8108/2, G.I.D.C. Sachin, Dist. Surat - 394 230, Gujarat – INDIA.
l: + 91 261 2890122 | Fax: + 91 261 2891011
mail: env@colourtex.co.in

colourtex
The Dyestuff Company

ID:20632

ANNEXURE-1

QUALITY OF RAW EFFLUENT & TREATED EFFLUENT

Sr. No.	Effluent Parameter	Unit	Raw Effluent Characteristics	Final Outlet Characteristics
1	Temperature	°C	27-34.5	27.5-33.0
2	pH	pH Units	4.0 -7.0	7.0 -8.0
3	Colour	Pt.Co.Scale	500-1000	60-80
4	Suspended solids	mg/l	100-400	65-85
5	BOD (3 days, 27 °C)	mg/l	800-1200	20-30
6	COD	mg/l	2800-3500	150-225
7	Oil & Grease	mg/l	10-15	0- 2
8	Phenolic Compound	mg/l	< 4	0-0.5
9	Ammonical Nitrogen	mg/l	25-40	10-15
10	Total Chromium	mg/l	< 3	BDL
12	Copper (as Cu)	mg/l	< 4	BDL
13	Zinc	mg/l	< 4	BDL
14	Nickel	mg/l	BDL	BDL

Colourtex Industries Private Limited (Unit-1)
(Formerly known as Colourtex Industries Limited)
CIN : U24231GJ1989PTC012922
Correspondence Address: Plot No. 158/3, B/h. Fire Station, G.I.D.C. Pandesara, Surat – 394 221
Factory Address: Block Nos. 272/P, 273/P, 274, 278/P, 283/P, 284/P, 285 to 288, 294 to 297, 310 & Plot Nos. 288/1, 288/2, 289/1, 289/2, 6108/2, G.I.D.C. Sachin, Dist. Surat - 394 230, Gujarat – INDIA.
Tel: + 91 261 2890122 | Fax: + 91 261 2891011
e-mail: env@colourtex.co.in

colourtex® The Dyestuff Company

ID:20632

ANNEXURE-2

COMPARATIVE FOR EFFLUENT QUALITY

Sr. No.	Parameter	Avg. 2013		Avg. 2014		Performance%		Percentage Change
		ETP Inlet	ETP Outlet	ETP Inlet	ETP Outlet	2013	2014	
1	pH	3.2	7.2	2.6	7.2	225.0	276.92	+23.07
2	Temperature (°C)	30.6	29.0	30.3	29.0	94.5	95.6	+1.2
3	Colour (Pt.co. scale)	513.6	50.0	549.0	53.7	9.7	9.8	+1.0
4	Total suspended solids (mg/l)	342.3	48.3	369.7	53.7	14.1	14.5	+2.8
5	TDS (mg/l)	4944.5	4045.6	5134.7	4104.7	81.8	79.9	-2.3
6	Oil & grease (mg/l)	5.8	0.3	7.5	0.9	5.1	12.8	+151.0
7	BOD (mg/l)	874.3	24.3	877.7	24.7	2.7	2.8	+3.7
8	COD (mg/l)	2843.0	181.6	2784.0	183.0	6.3	6.6	+4.8
9	Phenolic compounds (mg/l)	1.6	ND	0.7	ND	–	–	–
10	Sulphides (mg/l)	ND	ND	ND	ND	–	–	–
11	Chlorides (mg/l)	2788.9	1312.0	2469.0	1157.7	47.0	46.9	-0.2
12	Sulphates (mg/l)	1668.0	1131.6	1609.3	963.0	67.8	59.8	-11.8
13	Ammonical nitrogen (mg/l)	9.6	1.7	14.5	2.8	17.9	19.0	+6.1
14	Total Chromium (mg/l)	ND	ND	ND	ND	–	–	–
15	Hexavalent chromium (mg/l)	ND	ND	ND	ND	–	–	–
16	Copper (mg/l)	0.9	ND	0.6	ND	–	–	–
17	Zinc (mg/l)	1.5	ND	0.8	ND	–	–	–
18	Cyanides (mg/l)	ND	ND	ND	ND	–	–	–
19	Lead (mg/l)	ND	ND	ND	ND	–	–	–
20	Nickel (mg/l)	ND	ND	ND	ND	–	–	–
21	Mercury (mg/l)	ND	ND	ND	ND	–	–	–
22	Fluorides (mg/l)	ND	ND	ND	ND	–	–	–
23	Cadmium (mg/l)	ND	ND	ND	ND	–	–	–
24	Manganese (mg/l)	ND	ND	ND	ND	–	–	–

Chemical Engineering Department, N.G. Patel Polytechnic, Bardoli
- 18 -

GLOBE ENVIRO CARE LTD.
Common Effluent Treatment Plant
Plot No. : PP/1 off Rd. No. 2, B/H KayTex Mill,
G.I.D.C., Sachin, SURAT - 394 230.
Ph. : (0261) 6547121 / 6587120
CIN Number: U29199GJ1988PLC033633
Email : nsk.valsad@gmail.com / globeenviro2001@gmail.com

Ref. No.: GECL/CORR/01086/2015-16 Date: 16/02/2016

To,

ShriJ K Vyas
Head,Industrial Pollution Prevention group
Centre for Environment Education
Centre of Excellence of Ministry of Environment, Forest
and Climate Change (MOEFCC), Govt of India
ThaltejTekra, Bodakdev Roac,
Ahmedabad- 380054.

Subject: Submission of details with reference to your email dated: 09/02/2016.

Respected Sir,

We are pleased to submit pcint wise details asked by you with reference to email dated: 09/02/2016.

1) Capacity of w/w treatment of CETP:
0.5 MLD.

2) Average quantity and quality of raw and treated effluent:

Attached as Annexure-I.

3) Numbers of members:

We have total 46 nos. of members.

4) Type of the member industries (category wise) and no. of red, orange and green as well as large,medium and small category of units having CETP membership:

All the members are from RED category. 42 members are from Small scale category, 3 members are from large Scale and 1 member from Medium scale category.

5) Whether CETP has fixed inlet norms for their members, whether member units are required to provide treatment to their w/w, if so what is the type of treatment they are supposed to give and for what parameters?

CETP has fixed inlet norms for their members, which are attached as Annexure-II.

Members are required to give primary treatment for achieving inlet norms of CETP.

6) Date of issue of CC&A and its validity,

We have received CC&A from GPCB vide consent order no.: AWH-46784 dated: 03/05/2012 and valid up to 20/12/2016.

7) Present waste water load (m3/day) and average w/w volume in a year,

Present waste water load is 190 m3/day.

Average w/w volume in year is @ 191 m3/day.

8) System for collection, treatment and disposal of the trade effluent of CETP:

Schematic flow diagram of CETP attached herewith as Annexure-III.

9) Numbers of tankers along with their capacity to receive w/w from member units, whether the tankers are dedicated for w/w collection from member units:

Presently we have 4 nos. of tankers dedicated for w/w collection from member units, each having capacity of 10 KL.

10) Whether GPS/manifest system is used for trekking the movement of w/w of member units to CETP,

Tanker movement is trekked by GPS system. Tanker is accompanied with manifest for collection of w/w from member units to CETP.

11) What is the final point of disposal of treated effluent?

Treated effluent is discharge in to UNN khadi through underground pipe line provided by G.I.D.C. which ultimately goes into Arabian Sea.

12) Whether performance evaluation of CETP is done in recent past, if so that report,

Environment Audit is carried out by schedule-1 auditor nominated by GPCB and report is submitted half yearly.

13) System for treatment of sewage and its disposal for CETP members,

Sewage waste is to be disposed off through septic tank/ soak pit system.

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G.I.D.C., Sachin, SURAT - 394 230.
Ph. : (0261) 6547121 / 6587120
CIN Number: U29199GJ1998PLC033633
Email : nslk.vatsal@gmail.com / globeenviro2001@gmail.com

14) Whether flow meters are provided at the inlet and out of CETP,whether its record is maintained,

Magnetic flow meter is installed at inlet and outlet line of CETP. Records of both the flow meters are maintained in log sheet of CETP.

15) Whether online monitoring of parameters like pH, COD (TOC) at the outlet of CETP is done and this system is attached to CETP as well as GPCB servers for record and necessary action.

TOC meter is installed at the outlet of CETP. Presently, procedure to connect withGPCB servers is in progress.

16) Whether separate energy meter is provided for CETP,

Yes.

17) What is the system and what are the powers of CETP management to punish the erring units?

Yes. CETP management has power to punish erring units. For that CETP management has prepared monitoring policy. Please find attached herewith monitoring policy as Annexure: IV.

18) Whether GPCB is contacted for action against the erring units,if so details of no of such units in last six months,

GPCB is contacted for taking action towards erring units. However there is no such incident occurred in last six months.

19) Details about violation by CETP recently and GPCB action in this regard.

GPCB has issued two Show cause notices during FY 2015-16. Details are tabulated as follows:

SCN no. and date	Reason	Compliance
327907 dt.: 19/09/2015	Non-working of flow meter At final disposal line and non-working of TOC analyser	Flow meter at final discharge line and TOC in working condition.
332942 dt.: 24/11/2015	To provide point wise compliance of EC and submission of DPR with reference to CTE amendment application.	Point wise compliance of EC submitted and submission of DPR will be made as soon as it is prepared. Presently, preparation of DPR is in process by M/s EnproEnvirotech&EngineersPvt.Ltd.

20) Details of sludge generation (T/D) ,its storage,treatment and method of disposal. (TSDF member ship)

Sludge is stored in separate sludge storage area which is covered by roof of cement sheet and having proper leachate collection system. We are disposing ETP sludge to TSDF site developed by M/s SaurashtraEnviro Projects Pvt.Ltd. located at Bhachau, Kutch.

Details of sludge generation is attached as Annexure: V.

Annexure: I

Average quality and quantity of raw and treated effluent

Major parameter of effluent	Average Quality of Raw effluent	Average Quality of Treated effluent	Average quantity of Raw effluent	Average quantity of Treated effluent
pH	7.47	7.90	@ 0.2 mld	@ 0.2 mld
SS	96.5	73		
TDS	6290	10075		
Oil & Grease	3.13	2.3		
COD	2700	360		
BOD	229	75		
Ammonical Nitrogen	155	46.5		

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G.I.D.C., Sachin, SURAT - 394 230.
Ph. : (0261) 6547121 / 6587120
CIN Number: U29199GJ1998PLC033633
Email : naik.vatsal@gmail.com / globeenviro2001@gmail.com

Annexure: II

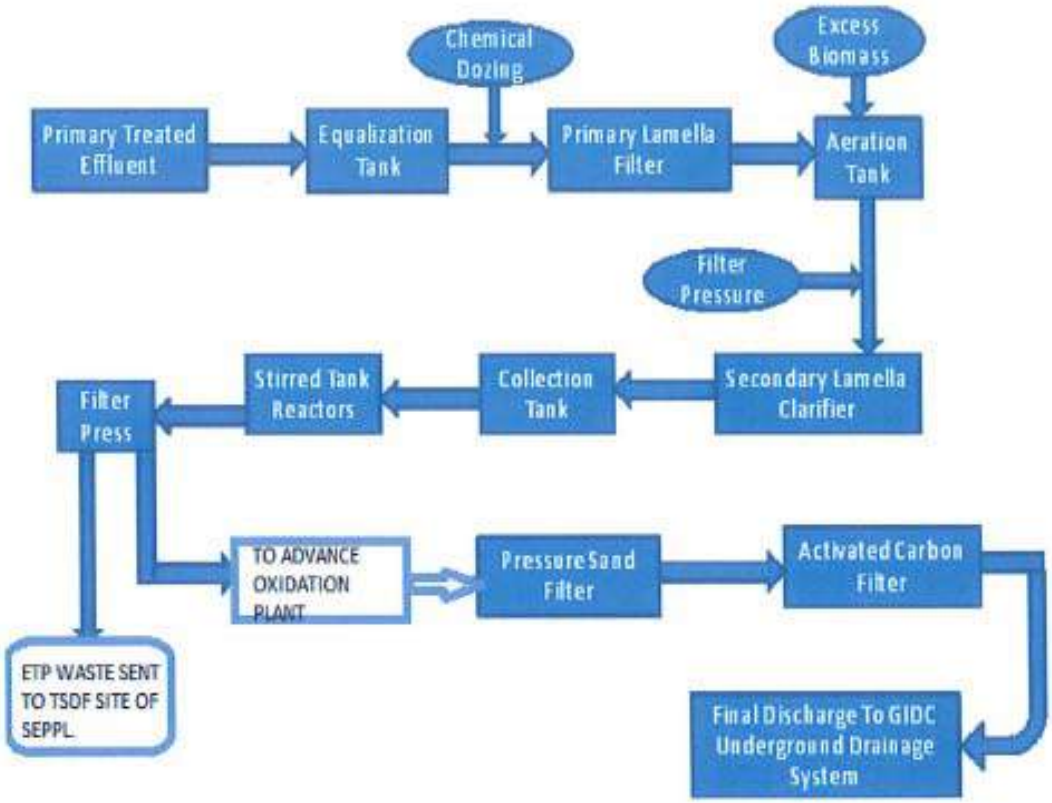
Inlet norms of CETP

Parameter	Primary Treated Effluent, Max. Value
pH	6.5 to 7.5
Temperature, ^{O}C	40
COD, mg/l	4000
BOD (3 days at 27 ^{O}C), mg/l	1500
Suspended Solids, mg/l	100
Oil and Grease, mg/l	20
Phenolic Compound, mg/l	5
Ammonical Nitrogen, mg/l	50
Hexavalent Chromium, mg/l	0.2
Total Chromium, mg/l	4
Sulphide, mg/l	4
Copper, mg/l	3
Zinc, mg/l	5
Nickel, mg/l	3

GLOBE ENVIRO CARE LTD.
Common Effluent Treatment Plant
Plot No. : PP/1 off Rd. No. 2, B/H Kay/Tex Mill,
G.I.D.C., Sachin, SURAT - 394 230.
Ph. : (0261) 6547121 / 6587120
CIN Number: U29199GJ1998PLC033033
Email : nsh.vatsal@gmail.com / globeenviro2001@gmail.com

Annexure: III

FLOW DIAGRAM OF CETP



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CIN Number: U29199GJ1998PLC033633
Email : nsh.vatsal@gmail.com / globeenviro2001@gmail.com

Annexure: IV

Monitoring and Billing Policy of GECL

1. Monitoring Protocol
    a. Each member of GECL will be visited at any time by authorized official from GECL. Members should ask for I-card of the visiting officer.
    b. Samples will be taken from the various designated storage tanks.
    c. Samples also can be taken other than above locations if required and notice of inspection will be given to the member.
    d. At a time three samples will be taken and sealed. One sealed sample will be given to the member, second sealed sample with code number will be sent to laboratory for analysis and third sample with code number will be retained by CEO for joint testing or any other verification purpose.
    e. Within 72 hrs results will be sent to the member through sms. It is member's duty to provide correct mobile number without DNB.
    f. If any member would like to have re-testing done, they have to come to GECL laboratory along with their sealed sample, either on Friday or Saturday between 11 am to 1 pm.
    g. Please note that laboratory results of any laboratory other than GECL will not be considered and unsealed sample or tampered sample will not be considered for joint testing.
    h. After joint testing, lower result will be considered for billing. The final decision on billing will be of monitoring committee in case of any discrepancy.

2. Defaulting criteria

COD	<=4000 mg/l for stream
BOD	<= 1500 mg/l for stream A
NH4-N	<= 50 mg/L for Stream A
TSS	<= 300 for stream A
pH	6.5 to 8.5 for Stream A and Stream B
Heavy Metal	Absent
Phenolic Compound	<=1 mg/l
Hexavalent Chromium	<=1 mg/l
Ammonical Nitrogen	<=50 mg/l

3. Closure, Suspension and restoration

Closure and suspension will be given on following incidents:

i. Acidic wastewater for stream A
   a. 3 days closure for acidity < 1%
   b. 7 days closure for acidity between 1 to 3 %
   c. 15 days closure for acidity > 3%

ii. High NH4-N wastewater for Stream A

If any two samples from last two months are found having NH4-N> 1500 mg/L, 7 days closure will be issued.

iii. High COD wastewater for stream A

7 days closure will be issued if any two samples are found with COD> 10,000 mg/L

Please note: The closure will be issued along with additional penalty.

Suspension:

If any member is found to be constantly violating the norms (ie more than five samples above the norms in a month), his name will be given to GPCB and GECL will suspend the membership after board's approval.

4. Grievances

A grievance committee consisting of local directors and CEO will meet every Friday between 2 to 4 pm to address any grievances for monitoring or billing.

Any member who has any complaint for monitoring can come without prior intimation. Member has to come with evidence/results.

Committee will decide the relaxation based on last 3 months performance of the member's ETP.

Committee will put forward their decision for billing to the Board of Directors for approval and then after the decision will be implemented.

GLOBE ENVIRO CARE LTD.
Common Effluent Treatment Plant
Plot No. : PP/1 off Rd. No. 2, B/H KayTax Mill,
G.I.D.C., Sachin, SURAT - 394 230.
Ph. : (0261) 6547121 / 6587120
CIN Number: U29199GJ1998PLC033633
Email : naik.vatsal@gmail.com / globeenviro2001@gmail.com

Annexure: V

DETAILS OF SLUDGE GENERATION

Sr. No.	Month	ETP Sludge (Kg)
1	Apr,2015	6000
2	May,2015	8040
3	Jun,2015	4900
4	Jul,2015	5400
5	Aug,2015	5600
6	Sep,2015	5600
7	Oct-2015	7800
8	Nov-2015	7400
9	Dec-2015	7800
Total		58540

Sr. No.	Points	Details
A	Names, numbers and types of all the units in GIDC Sachin. (eg. textiles, Chemicals, power looms, engineering etc.)	List Attached herewith
B	Total number of units in GIDC sachin	2284 Nos of Units
C	Source and Mode of water supply to all the units in GIDC	Canal base
D	Alternate source of water to these units (e.g. Tanker water, Bore well etc.)	Tanker, Bore (by industries himself)
E	Details of drainage system of the GIDC including details of present status and up gradation plan with time schedule for its completion.	Plan attached herewith for drainage line of Dying & Printing industries (Laid by Sachin Infra Environment Ltd)
F	Present mode of disposal of sewage and industrial effluent from industries (and others) done by GIDC and future plan in this regard,	i. Industrial effluent of Dying and Printing Industries are collected by Under Ground Drainage line & disposed it at final disposal point as approved by GPCB (CETP Operate and run by Sachin infra Environment Ltd). ii. Industrial effluent of Chemical Industries are collected by tanker & disposed it at final disposal point as approved by GPCB (Collection through tanker & treatment at CETP both activities operated run by M/s Globe Enviro care Ltd. iii. Rest of all industries comes under likely not ambit of environmental law are disposing their domestic waste water through septic tank incl. with the soak pit system. And more ever they have been directed to upgrade their waste water disposal system vide NAO's letter No. CO/NA/SCN/6159,dt.11.01. 2016 & not to dispose sewage in open SWD. .

G	Layout plan of this notified area including plot nos, Storm water drainage line, final point of disposal of industrial waste water of both the CETPs i.e. SIEL and Globe	Attached
H	Is there any plan by GIDC for collection, treatment and safe disposal of sewage as well as industrial effluents from all the units (like yarn dying, digital printing, power looms, engineering units etc.) i.e. units other than D.& P. units (textile) and chemical units.	For domestic waste water disposal, Notified Area Authority Sachin will initiate feasibility study for installation of sewage treatment plant incl. collection system and whole project shall be propose under assistance to industrial Infrastructure scheme (AII) for approval at earliest and it will be taken up immediately after approval from competent Authority.

Chief Officer
Sachin Notified Area

Copy swrs to :
The Divisional Manager, GIDC, Vapi
The Superintending Engineer, GIDC, Surat

Copy to :
The Regional Manager, GIDC, Surat
The Chief Officer, NA, Sachin

Annexure Q

The quality of treated effluent from SIEL and GECL

Sir,

As desired, pl. find Analysis Statements/ Reports SIEL CETP, Globe CETP. Colourtex, GIDC, Sachin attached herewith.

Regards

Regional Office

Sachin Infra Enviro Ltd. CETP, Analysis statements of samples collected from the final outlet

Samp ID & Dt	BOD	CHLORIDE	COD	COL	O&G	pH	PHENOL	SS	SULPHIDE	SULPHATE	TDS	TMP
178849-28/01/2016	**69**	**4500**	**269**	**25**	**2.4**	**7.34**	**0.25**	**24**	**1.6**	**561**	**12162**	**37**
178120-16/01/2016	**74**	**6500**	**362**	**30**	**2.4**	**7.27**	**0.37**	**250**	**2.18**	**806**	**13562**	**29**
176035-18/12/2015	**160**	**4100**	**652**	**15**	**4**	**7.3**	**0.49**	**178**	**2.4**	**503**	**8396**	**34**
173413-04/11/2015	**34**	**3300**	**229**	**10**	**3.6**	**6.93**	**0.41**	**30**	**1.87**	**511**	**7694**	**38**

Globe Enviro Care Ltd., CETP, Analysis statements of samples collected from the final outlet

javascript:__doPostBack('dgCROSS_TAB$ctl01$ctl02','')	BOD	CHLORIDE	COD	COL	NH3	O&G	pH	PHENOL	SS	SULPHIDE	SULPHATE	TDS	TMP
178844-28/01/2016	**60**	**3500**	**228**	**100**	**11.2**	**1.6**	**7.62**	**0.33**	**70**	**0.53**	**1233**	**7268**	**36**
176120-	**123**	**4500**	**356**	**160**	**33.6**	**6.4**	**7.7**	**0.62**	**236**	**1.6**	**2005**	**9748**	**36**

19/12/2015													
173194-02/11/2015	**54**	**5500**	**419**	**100**	**20.72**	**3.2**	**8.21**	**0.4**	**70**	**0.4**	**2400**	**12130**	**38**

ANALYSIS REPORT FOR
WATER / WASTE WATER SAMPLE

Sample ID:151169 - Analysis Completion:05/12/2014

Dyes And Dye-Intermediates. / LAB Inward : 19821

Gujarat Pollution Control Board, Surat
338, Belgium Square
Typical 1st Floor,Opp. Linear Bus Stand
Ring Road, SURAT
Tele:(0261) 2442696

TEST REPORT

Test Report No. : 19821 **Date: 05/12/2014**

1. Name of the Customer : Colourtex Industries Ltd.- (Unit-1)(Old-Pandesara Industries Pvt.Ltd.) - 20632
2. Address : 288/1-2,289/1-2 ,8108/2, ,G. I. D. C., SACHIN-394230, Taluka : Chorasi, District : Surat, GIDC : Sachin
3. Nature of Sample : REP-Representative/Grab, (Insp Type : APP-On Application)
4. Sample Collected By : M.M.Page, SSA
5. Quantity of Sample Received : 0
6. Code No. of the Sample : 151169
7. Date & Time of Collection & Inwarding : 30/10/2014 , (1550 to 1550) & 01/11/2014
8. Date of Start & Completion of Analysis : 05/11/2014 & 05/12/2014
9. Sampling Point : ## Final Outlet of the ETP ~ -
10. Flow Details (Remarks) : yes
11. Mode of Disposal : In to Esturey of River Tapi through u/g pipeline
12. Ultimate Receiving Body :
13. Temperature on Collection : 30 & pH Range on pH Strip :7 to 8 on PH strip
14. Carboys Nos for : 2 & Color & Appearance :brown
15. Water Consumption & W.W.G (KLPD) : Ind :9610.000 , Dom :125.000 & Ind :9102.000 , Dom :119.000

Sr	Parameter	Unit	Test Method	Range of Testing	Result
1	Temperature	Centigrade	IS: 3025 (Part – 9) – 1984(Reaffirmed 2006)	Ambient oC - 60 oC	30
2	pH	pH Units	4500 H+ B APHA Standard Methods 22nd edi.2012	1 – 14 pH value As or	8.34
3	Colour	Pt.Co.Sc.	2120 B APHA Standard Methods 22nd edi. 2012	2 - to 99 Hazen & 1-50	700
4	Total Dissolved Solids	mg/l	Gravimetric method. (2540 C APHA Standard Method	10 – 200000 mg/L	2384
5	Suspended Solids	mg/l	Gravimetric method. (2540 D APHA Standard Method	2 – 10000 mg/L	76
6	Ammonical Nitrogen	mg/l	1).Titrimetric method (4500 NH3 B & C APHA Standa	1 - 2000 mg/l.	0.56
7	Chloride	mg/l	Argentometric method. (4500 Cl? B APHA Standard M	1 - 50000 mg/l	580
8	Sulphate	mg/l	APHA(22nd edi)4500 SO4 E	2-40mg/l	260
9	Chemical Oxygen Demand	mg/l	APHA (22nd Edition)- 5220 B Open Reflux Method-2	5.0- 50000 mg/l	149
10	Oil & Grease	mg/l	Liquid – Liquid Partition Gravimetric method. (5520 B	01 – 1000 mg/l	1.6
11	Phenolic Compounds	mg/l	4 Amino Antipyrene method without Chloroform Extra	0.1 – 50 mg/l	0.14
12	Sulphide	mg/l	APHA (22nd Edi.)4500-s2-F –iodometric Method	1-500.0 mg/l	1.0
13	B.O.D (3 Days 27oC)	mg/l	3 – Day BOD test. (IS 3025 (Part 44) 1993 Reaffirmed	05–50000 mg/l	34

Laboratory Remarks : Checked By:274-lab_274 Dt.: 05/12/2014

Dr. A H Sharma, Lab Head

BEFORE THE NATIONAL GREEN TRIBUNAL
(WESTERN ZONE) BENCH, PUNE

APPLICATION No.50/2015 (WZ)
(M.A. No. 192/2015)

CORAM:

Hon'ble Mr. Justice U.D. Salvi,
(Judicial Member)
Hon'ble Prof. (Dr.) P.C. Mishra,
(Expert Member)

B E T W E E N:

The Human & Animal Welfare Association, Through : Its President,
Mr. Ashutosh Rameshbhai Mishra,
Head and Registered Office,
H.No.931, Ground Floor,
Galli No.1-D, Ekta Vihar,
Mithapur Extension, Nr. Durga Builder,
New Delhi-110 044.

……**Applicant**

A N D

1. **Gujarat Pollution Control Board**,
   Paryavaran Bhavan,
   Sector 10-A, Gandhinagar,
   Gujarat-382 010

2. **Gujarat Industrial Development Corporation,**
   Vanita Vishram Buildig,
   2nd Floor, Athwagate, Surat City,
   Gujarat-395 001

3. **Sachin Notified Area Authority,**
   Plot No.5719, Road No.06, Unnate
   Building, GIDC, Sachion,
   Dist. Surat, Gujarat-394230

4. **Sachin Infra Environment Limited**, **(SIEL)**
   Plot No.P-2, Road No.02, GIDC.
   Saching, Tal. Choryashi,
   Distt. Surat, Gujarat-394230

5. **Sankalp Dyg. & Plg. Mills Pvt. Ltd.,**
   Plot No.268, Road No.02, GIDC
   Sachin, Tal;uka Chryashi,
   Distt : Surat, Gujarat-394230

6. **Hindustan Dyg. & Plg. Mills Pvt. Ltd.**
   Plot No.2411/1, Road NO.02, GIDC
   Sachin, Taluka-Choryashi,
   Distt : Gujarat-394230

7. **Shree Sidhdheshwar Chemical,**
   Sachin, GIDC, Taluka : Choryashi,
   District Surat, Gujarat-394 230

8. **Kashish Silk Mill,**
   Sachin, GIDC, Taluka Choryasi,
   Distt : Surat, Gujarat 394230

9. **Nutan Dye Chemical,**
   Sachin, GIDC, Taluka Choryasi,
   Distt : Surat, Gujarat 394230

10. **Harish Chemical,**
    Sachin, GIDC, Taluka Choryasi,
    Distt : Surat, Gujarat 394230

11. **ESSPEE Industries,**
    Sachin, GIDC, Taluka Choryasi,
    Distt : Surat, Gujarat 394230

12. **Pushpanjali Dye and Print Mill**
    Sachin, GIDC, Taluka Choryasi,
    Distt : Surat, Gujarat 394230

13. **Vishwasprem Dye and Print Mills**.
Sachin, GIDC, Taluka Choryasi,
Distt : Surat, Gujarat 394230

.....Respondents

Counsel for Applicants
Mr. Surendra Singh Hooda, Mr. Jitendra Singh, Adv.
Counsel for Respondent No.1 :
Mr. Viral Shah, Adv.
Counsel for Respondent No.2 :
Mr. Rutvij K. Bhatt, Adv. & Mr. Dhaval Nanavati, Adv.
Counsel for Respondent No.3, 4 :
Mr. Milind M. Mahajan, Adv.
Counsel for Respondent No.4-6, 10, 12 :
Mrs.Fawia M. Mesquita, Adv.
Counsel for Respondent No.7, 9&10 :
Mr. S.V. Abhang, Adv.

Reserved for judgment on: 29th August 2017
Pronounced on Dated : 6th September, 2017

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1. **Whether the judgment is allowed to be published on the net ? Yes.**
2. **Whether the judgment is allowed to be Published in the NGT Reporter ? Yes.**

Prof (Dr.) P.C. Mishra, Expert Member

JUDGMENT

1. The instant Application was filed by one Non-Governmental Organization, namely 'The Human & Animal Welfare Association' (in short "the association"), represented by its President Shri Ashutosh Rameshbhai Mishra, under Section 18(1) read with sections 14, 15, 16 and 71 of the National Green Tribunal Act, 2010. The Association is

registered under Central Societies Act, 1860 bearing registration No.S/466/2011/South Delhi. It is claimed by the Association that it is engaged in the field of Human Rights, corruption, foeticide, environmental issues and also working for upliftment of poor, needy and downtrodden people. The Application is directed against the Respondent No.4-Sachin Infra Environment Limited (in short 'SIEL') for violating the terms and conditions stipulated by the Gujarat Pollution Control Board (in short GPCB), the Respondent No.1 thereby directly contributing to surface and groundwater contamination, soil pollution, damage to flora and fauna etc. in Unn Khadi area situated at about 5.1 k.m. from Gujarat Industrial Development Corporation, Sachin (in short 'GIDC-Sachin'). In support of his allegations, the Applicant has annexed some 15 photographs with the Original Application which reveals the deteriorating condition of environment in the locality.

2. It is further contended by the Applicant that they made complaint before the GPCB on the poor performance of SIEL thereby making the people, animals, and plants of the locality vulnerable to pollution, and GPCB in turn made an inspection of the site jointly with the Applicant and collected 09 samples of untreated effluent discharged openly from various industries, the analysis of which reveals physical and chemical parameters exceeding the

prescribed limit. Even analysis of so called treated waste water from SIEL Combined Effluent Treatment Plant (in short SIEL-CETP), shows non-compliance of pollution norms. Due to such blatant non-compliance of pollution norms by SIEL, the Applicant has approached the Tribunal with the following prayers for our consideration :

(A) Pass an order/directions directing the respondent no.1 to 3 to ensure compliance of conditions of consent order no. AWH-65236, Dated:24/09/2014.

(B) Pass an order/directions directing the respondent no.1 to 3 to take punitive action against all the erring industrial units located in GIDC, Surat, Gujarat in general and respondent no. 5 and 6 in particular.

(C) Pass an order/directions directing the respondent no.1 to cancel the consent order no. AWH-65236,Dated: 24/09/2014 issued in favour of respondent no. 4 for non-compliance of the conditions of the consent order dated 24/09/2014.

(D) Pass an order/directions directing the respondent no.1 to 3 to impose costs on all the erring industrial units and respondent no.4 to raise sufficient money to implement general condition no.16 of the consent order dated 24/09/2014.

(E) Pass an order laying down strict guidelines to ensure accountability of the concerned statutory authorities under the laws enumerated in Schedule I to the National Green Tribunal Act, 2010 so that they

perform their duties under the said law in order to safeguard the environment from aforesaid deviations / non-compliances.

3. The Respondent No.4- Sachin Infra Environment Limited (SIEL) in their reply would state that it is a ISO 14001:2004 Certified Common Effluent Treatment Plant (in short 'CETP') for its 71 Dyeing and Printing Industries as Members in Gujarat Industrial Development Corporation-Sachin area which has been in operation since March 1998 with consent and authorisation from Respondent No.1-GPCB from time to time. It is further stated by them that the SIEL has the Underground Effluent Conveyance System (underground pipeline) of around 8.5 k.m. with two pumping stations and the pipeline is connected to all 71 Member-Industries for collection of waste water for treatment at CETP. The SIEL in its affidavit has vehemently denied the allegations of the Applicant as being false and malicious. They would further contend that the Application as filed is based on arbitrary observations of samples collected from outside the premises of SIEL, without their knowledge, from the pond at the foot of Air release Vent Pipe which is possibly a part of the surface water from other industries which are not connected to underground drainage system. The SIEL has annexed an Inspection Report of a Government Registered and approved Valuer

and Safety Consultant, D.H. Patel & Associates Private Ltd. who was engaged by them for an inspection and verification of working of his underground drainage system. Their report of 21st July 2014 reads as follows :

> *"There are total 71 numbers of members connected to Sachin Infra Environment Ltd to treat their industrial waste water.*
>
> *We had inspected all connection of individual industries to check whether they are connected to main pipe line or not. Following are the observation during inspection.*
>
> 1. *Total number of connected unit is 57 on dated 24/04/2014 (Certificate is already issue)*
> 2. *Total number of connected unit is 5 on dated 21/07/2014 (Details as per annexure attached).*
> 3. *Total number of closed and not connected unit is 9 (Details as per annexure attached)."*

4. Thus, the Respondent No.4 has categorically denied that there was any discharge of untreated effluent in the open surface area or anywhere else as alleged by the Applicant by them or any one of their Member-Industries. Learned Sr. Counsel for Respondent No.4 would further submit during hearing that CETP is being continuously upgraded and presently maximum output is being achieved although during the year 2011 to 2015 the CETP outlet value for BOD were in the range of 300 to 400 mg. per ltr.

5. The GPCB in their affidavit have clearly stated that the norms prescribed by the Board are not being achieved by the SIEL and during the year 2011 to 2015 the CETPs outlet value were much beyond the permissible limit. In

their additional affidavit filed on 20th January 2016, the Board has stated that the inspection was conducted on 16th January 2016 in 16 Member Units of SIEL and none of the units were found to have been discharging effluents to open drain/nallas. They would further state that since there is no domestic sewerage system in the area, domestic sewage was found in open surface of GIDC. The Analysis Report of the final outlet of CETP collected on 16th January 2016 and placed by the Board reveals that the Respondent No.4 is yet to achieve the prescribed norms.

6. In order to get a clear picture on the performance of Respondent No.4-SIEL–CETP system and other cognate issues, as raised by the Applicant, we appointed Shri J.K. Vyas, Head of Centre for Environmental Education, Ahmedabad, a Retired Senior GPCB Official, to make an inspection of the site in question in GIDC Sachin and submit a report alongwith necessary documents, photographs etc. on the following aspects :

1. *To give number of dyeing and printing units in the cluster, and whether they are members of Respondent No.4.*
2. *The number of outlets of each of the industry/unit.*
3. *Whether each of such industry is internally connected to underground pipeline system for the purpose of effluent discharge which meets, at end, the common ETP for the purpose of the treatment of effluent.*
4. *Whether there are discharges of industrial effluent in open area, drain, nalla by the industrial units in the industrial area.*
5. *To analyse the available data and give separate opinion regarding functioning of each of the industrial unit, effluent-wise, efficiency-*

wise, the collection of effluents per unit to treatment of effluent per unit in the common ETP, if it is so connected, the capacity of common ETP to deal with the treatment of effluent.

7. We also directed GPCB to collect the samples of any discharge in the open area drain/nallas by the Industrial units in the GIDC-Sachin area and submit the analysis report of such samples. The GPCB was further directed vide our order dated 5th November, 2015 and also on 21st January 2016 during hearing of Review Application No.25/2015 to undertake the exercise to identify such other Industrial Units lying within the limits of GIDC-Sachin and discharging their effluent to open drains and surface, collect and analyse their outlet waste water samples and place a comprehensive report before the next date supported by Photographs.

8. The Court Commissioner filed a detailed report on waste water related issues in GIDC-Sachin during March 2016, in terms of our order dated 21st January 2016 which forms part of this judgment **(annexure-1).** The learned counsel for Applicant and Respondents were granted liberty to file their counters, if any, to the report of the Court Commissioner.

9. On 17th August, 2016 we heard the learned counsel for the Applicant on merit. He would submit that his core contention for approaching the Tribunal was for non-

compliance of consolidated consent and authorisation letter dated 24th September 2014 issued by GPCB, which is annexed to the Application, and the status report filed by Respondent No.4 as well as the report of the Court Commissioner clearly demonstrate that there is no compliance by the Respondent No.4; and, therefore, he would press for an appropriate order directing the Respondent No.4 to comply with the conditions stipulated in the consolidated consent and authorisation letter of GPCB within a given time frame and also imposing cost upon the Respondent.

10. On 29th November 2016, we also directed GPCB to file a detail affidavit of the total number of industries generating industrial effluent and its quantity, number of CETPs and its Members alongwith performance of CETPs during last one year, status of compliance of consent conditions of all such industries alongwith action taken by the Board in respect of non-compliant units.

11. The Gujarat Pollution Control Board in their additional affidavit filed on 23rd February 2017 provided in detail the number of Industrial Units in operation, the other units which are under grant of consent stage but not commissioned etc. after undertaking an inspection of 1161 units in the site including two CETPs namely Sachin Infra Environment Limited and Globe Enviro Care Limited (in

short "GECL") to treat waste water of Textile Industries and Chemical Industries respectively. Out of 1161 Industrial Units GPCB found 34 Units discharging their waste water openly for which necessary closure order/directions/notice for show cause have been issued.

12. However, it is our considered view that the detailed report of the Court Commissioner takes care of all the issues raised by us to address the grievances of the Applicant. We, therefore, feel appropriate to proceed to consider the Court Commissioner's report to assess the non-compliance of Respondent No.4 and other Industries.

13. We have perused the report of Court Commissioner alongwith the documents and photographs annexed to it. The observations and recommendations/ suggestions are reproduced below :-

"**5. Observations:**

The concluding observations for both the phases of monitoring are as under;

- *There are 62 D&P units in GIDC Sachin-Surat. Their names locations and other details are as per* ***(Annexure A).***
- *All 62 units are the members of CETP, SIEL as shown in the* ***(Annexure).***
- *All D&P units are internally connected to the U/G drainage system of CETP for disposal of their trade waste* ***(Annexure A).***
- *As shown in the table at annexure all the units of D&P have single outlet for disposal of their trade waste* ***(Annexure A).***
- *After the stakeholders meeting various sites are visited, as observed during this visit from 1st to 3rd February, 2016 there is a flow/discharge of waste water were seen in areas like;*

- *The place opposite to M/s Harish Chemicals at Rajkamal Cross Road.*
- *Near M/s Vishwaprem Dying and printing unit. The analysis report of the sample of water flowing at this place collected during visit on 1st February, 2016 show that this waste water is contaminated.*
- *Near Government school behind village Gabheni and crematorium. The analysis report of the sample of water flowing at this place collected during visit on 1st February, 2016 shows that this waste water is contaminated.*
- *Waste water flowing in the storm water drain situated opposite to M/s R.D dying and Printing Mills Pvt. Ltd. The analysis report of the sample of water flowing at this place collected during visit on 2nd February, 2016 shows that this waste water is slightly acidic and also contaminated.*
- *The analysis report of the hand pump water sample collected during visit on 1st February, 2016 situated at village Gabhani near Crematorium indicates that the quality of water is unfit for the purpose of drinking, however the villagers informed during discussion that this hand pump water is not used by them for the purpose of drinking.*

  The quality of raw water supplied to the industries by GIDC appears to be very good as seen from analysis report. ***(Annexure B colly).***
- *There is no separate drainage network for collection, treatment and disposal of sewage in GIDC Sachin, the quantity of which is estimated at approximately 3.00 MLD as per the RO Surat of GPCB visit report dt.16/1/16.* ***(Annexure O)***

The D&P units were visited to find out the facts of waste water disposal, of which some were found discharging waste water outside their premises in to the GIDC storm water drain the details of which were sent to GPCB for further action through mail dt. 5/12/2016 to GPCB. ***(Annexure D)***

- *In addition to dying/printing (textiles) and chemical units, there are other industries within the estates involved in yarn dying, digital printing, water Jet dying, embroidery, power looms etc. who are not connected to any CETP and therefore may discharge its waste water in to the GIDC storm water drain.*
- *Housekeeping in most of the D&P units is required to be improved.*
- *Recordkeeping system for CC&A, membership of CETP, use of chemicals, industry profile on XGN is unsatisfactory.*

- *Most of the individual D&P units have provided a collection tank and screen as primary ETP. There is no proper and adequate nomenclature to the ETP system and at the places where flow meters are installed and places from where the waste water is sent to ETP.*
- *Use of flexible pipes observed at different places in the premises of the Units.*
- *Environment related matter is being looked after by non-technical persons.*
- *Flow meters have been provided by D&P units to record the flow of waste water in to CETP, this shall be linked to the SCADA system of CETP and also to GPCB-R.O/H.O. for monitoring.*
- *The system of raw water collection through tankers by the industries/units is unsafe as it is done through number of flexible pipes instead the fixed pipes lines.*
- *In many units there are holes in their compound walls creating a doubt of unauthorized waste water disposal all these holes are required to be plugged by them with immediate effect and GPCB to ensure this.*
- *It is felt that the problem of disposal of effluent in the estate may not be entirely due to the D&P units alone as SIEL has already established an underground drainage system for collection of effluent from their member units(i.e. D&P units) for further treatment in the CETP. There are chemical, digital printing, water jet dying, yarn dying, embroidery, plastic and some engineering units in this estate who generate trade and sewage and thus may discharge this effluent in the GIDC drain.*
- *The quality of treated effluent from SIEL and GECL are not achieving the norms decided by GPCB.* ***(Annexure B &Q)*** *hence both the CETP's are required to be upgraded at the earliest to achieve the GPCB norms.*
- *The quality of waste water discharge at Unn Khadi near village Gabheni indicates higher concentrations of SS,TDS, BOD and COD* ***(Annexure N).***
- *There is a lack of plantation within the units and also in the entire estate as a whole.*
- *The roads in the entire estate are in poor condition and so causes fugitive emission and air pollution to reduce dust emission and air pollution.*

*6****. Recommendations/Suggestions:***

In order to address and resolve the issues related to the unauthorized disposal of effluent in GIDC Sachin and the pollution

in Unn Khadi following actions are required to be executed by various stakeholders at the earliest:

1. All the units in the GIDC Sachin shall drastically improve their housekeeping, create free space and carry out plantation as per GPCB norms.

(Action: All units)

2. All the pipelines within the individual units or CETP premises shall be fixed, in other words there shall be no flexible/loose/temporary connections. Dosing of chemicals/nutrients required for treatment in both the CETP's shall be done through metering pump mechanism only. All leakages/spillages within the industrial and CETP's premises shall be immediately plugged and in case of accidental leakages/spillages it shall be diverted to CETP collection tank for subsequent treatment.

(Action: All units and all CETP's)

3. All the dyeing and printing units and chemical units in the estate who are members of CETP SIEL and GECL respectively shall continue to be members of their respective CETP's. Rest of the units shall approach SIEL/GECL for membership.

(Action: All units)

4. GPCB shall intensify its monitoring and dedicate a team through its V O-Surat and R O-Surat individually to closely monitor units in GIDC Sachin during day and night hours. The facts about erring units be immediately reported to HO GPCB who shall take strictest possible actions against them forthwith. The team from H O Gandhinagar may also pay occasional visits to GIDC Sachin and take necessary actions based on the observations.

R O-Surat be adequately strengthened at the earliest in terms of man power to perform the duties assigned to them.

(Action-GPCB)

5. There shall be no movement of tankers within GIDC Sachin from any industry or for any industry or for any purposes receiving the effluent from member industries of GECL to CETP for further treatment from 6.00 pm to 7.00 am. Next morning. The day time movement of all tankers shall be only under GPS system attached

to GPCB and GECL server (Action: GECL and their members). 24 hrs. Security shall be established to regulate the movement of tankers.

(Action: All Industries/CETP's)

6. There are more than two gates in the entire estate and this makes difficult for the agencies i.e. CETP authorities and regulatory authorities to keep watch on unauthorized movement of tankers carrying untreated effluents with in and also from other industrial area nearby. It is therefore recommended that only one gate after discussion with SIEL, GECL, GPCB and GIDC shall be decided and declared for movement of tankers in GIDC Sachin.

(Action: SIEL, GECL, GPCB and GIDC)

7. All the industries/units are required to keep all legal records at their industrial sites so that these documents are easily available to the enforcing agencies during monitoring.

(Action: All units)

8. All the industries/units shall immediately nominate a duly qualified and experienced person in the field of environment to look after O&M of theirs EMS and all other activities related to environment and inform GPCB in this regard.

(Action: All units)

9. The system for collection of raw water by individual units at their locations through tankers to be made more safe and permeant by installation of a fixed piping system as at present this water is collected through flexible hose pipes which are always lying outside the industrial premises protruding through their compound wall.

(Action: All units)

10. SIEL and GECL shall form a team having representatives of GIDC, GPCB to regularly monitor the area (even during odd hours) and all vulnerable places to check unauthorized waste water disposal. GPCB shall take immediate actions against all the defaulters as per the provisions of the W.A.-74 in case of violation by any industry.

(Action: SIEL, GECL and Colortex CETP, GIDC and GPCB).

11. CCTV cameras shall be installed at all gates and other sensitive areas in consultation with GPCB with display facilities at GPCB RO & VO-Surat and Head office and also at all CETP's to keep close watch on the movement of unauthorized waste water disposal and report to GPCB about the erring units. GPCB shall take immediate actions the defaulters.

(Action: SIEL, GECL and Colortex CETP in consultation with GIDC and GPCB).

12. If a unit is attracting provisions of the Environment Audit, the concerned auditor during their visits shall report to GPCB for stern action about the violation regarding unauthorised waste water disposal by units.

(Action: concerned auditors, GPCB)

13. The individual Industries and CETP authorities have stated that it is possible to reuse the effluent from dying section of textiles into the printing section for blanket and screen washing, colored drums washing etc. up to 70% and some units have implemented this system. This system be replicated for all other units as well, as it will reduce the quantity of waste water generation and subsequently the load on CETP (SIEL).

(Action: All D&P units in consultation with GPCB, SIEL).

14. SIEL, GECL and Colortex shall strictly maintain the inlet norms fixed by GPCB for efficient running of the CETP/ETP and ensure that the quality of effluent after treatment from their CETP's/ETP is always as per the tolerance limit prescribed by GPCB. Both CETP's shall immediately get the approval from all enforcing agencies for upgradation of

(Action: SIEL, GECL and Colortex CETP).

15. SIEL, GECL and Colortex shall install online PH and TOC meter with SCADA system at the out let of their CETP/ETP for ensuring the quality of treated waste water as per GPCB norms and this shall be connected to GPCB server at RO Surat and HO Gandhinagar for online monitoring and subsequent corrective actions by GPCB.

(Action: SIEL, GECL Colortex ETP and GPCB).

16. SIEL, GECL shall ask all his member units to provide magnetic flow meters with recorder, to record the quantity to effluent reused and discharged by units in to CETP shall be monitored through GPRS and SCADA system at CETP.

(Action: SIEL, GECL and Colortex).

17. The units are required to provide within their industrial premises, sludge collection, storage and disposal system in accordance with the provision of H.W. (MHTM) Rules-2008 and subsequent amendment thereafter. Thus sludge from the individual industries be collected by SIEL and GECL both from their respective members and strictly handled as per the provisions of HWMH Rules-(2008) and subsequent amendment thereafter and sent to a TSDF site having valid CC&A of GPCB.

(Action: all units in GIDC Sachin, CETP's).

18. The over flow if any from the septic tank/soak pit system of the units shall be diverted to the U/G drainage system of SIEL.

(Action: all units in GIDC Sachin).

19. RO and VO Surat region, shall keep a close watch on all ZLD units who are not supposed to dispose of their waste water.

(Action: GPCB)

20. GECL may also consider to provide an underground drainage system for collection of the waste water from all their member units to CETP and until then, CETP shall use GPS, manifest as well as SCADA system with links to GPCB and CETP for its collection system of receiving effluent through tankers to ensure that there is no unauthorized disposal.

(Action: GECL, GPCB).

21. All the CETP's shall be strictly operated and maintained as per the guidelines developed by CPCB for management, operation and maintenance of CETP's.

(Action: SIEL, GECL).

22. All CETP's shall carry our performance evaluation of their CETPs from a recognized institute like IIT/NEERI etc. and submit the reports to GPCB for suitable actions. GPCB may issue time specific directions to CETPs if any in the matter.

(Action: SIEL, GECL and Colortex CETP and GPCB).

23. All other industries like digital printing, water jet dying, embroidery, plastic and some engineering units must provide adequate financial support and contribute for provision of a sound system for collection, treatment and safe disposal of sewage and trade waste from their units.

(All concerned units as stated above)

24. All units in GIDC Sachin shall handle their waste as per the Hazardous Waste (Management Handling and Trans boundary Movement)-Rules 2008 and subsequent amendments in this Rule thereafter.

(Action: All Units)

25. The permission given to the units for observing ZLD for their trade waste may be reviewed by GPCB, instead these units be directed to treat their trade waste and sewage as per CETP inlet norms and then discharge in to CETP: GECL for further treatment. This will minimize the possibility of unauthorized waste water disposal in this area.

(Action: All units having ZLD facility, GPCB).

26. All individual industries (D&P and chemical units) shall strengthen their primary effluent treatment system so as to meet CETP inlet norms prescribed in the EC dtd 22nd July 2013 by SEIAA (for the subsequent amendments made by GPCB in this regard) to CETP.

(Action: All units and CETP).

27. GIDC, SIEL, GECL and all other units in the estate shall go for massive plantation at all possible places.

(Action: All units and CETPs).

28. GIDC, through a separate STP/CETP shall arrange for collection, treatment and scientific disposal of sewage and trade effluent from all the units (others than D&P and chemical industries) i.e. digital printing, water jet dying, yarn dying, embroidery, plastic and some engineering units in this estate who generate trade and sewage and thus may discharge this effluent in the GIDC drain causing pollution.

(Action: GIDC in consultation with GPCB, concerned individual industries).

29. Till the above arrangement is done, SIEL and GECL shall immediately explore in consultation with GPCB, to accommodate sewage generated from their member units for treatment in to CETP because the mails dtd 16/12/16 from both CETP's indicate that there is spare capacity available for this purpose for treatment of sewage in to their CETP's and as this will stop the unauthorized disposal of sewage on the surface and in to open drainage and will further help CETP's to achieve the quality of treated effluent from CETP's as per GPCB norms.

(Action: SIEL and GECL in consultation with GIDC and GPCB)

30. A health care until shall be established in the estate for regular health checkup and treatment of all workers and employers of the units in GIDC Sachin.

(Action: SIEL and GECL and GIDC).

31. All concerned i.e. all CETP', GIDC and individual industries are required to be regularly exposed to awareness, capacity building and training programs in the field of environmental pollution control to ensure better compliance for all the environmental pollution control laws and overall improvement in the environment.

(Action: All individual industries, SIEL, GECL and Colortex CETP, GIDC and GPCB).

32. It is gathered that SIEL, GECL and Colortex have set up a company i.e. Gabheni Eco Channel Private Limited to lay a pipeline for conveyance of the discharge of treated effluent of GIDC Sachin at Unn Khadi and proposal for laying a new pipeline from GIDC Sachin to Unn Khadi is submitted to GIDC Gandhinagar on 2nd July 2015 for consideration. Hon'ble NGT may issuer directions to GIDC and all other concerned department of the government to clear this proposal at the earliest after considering all issues related to environmental impacts and mitigation measures.

(Action: GIDC and other related govt. departments).

33. GPCB shall grant CTE/CC&A to the concerned units in GIDC Sachin only after ensuring its membership at respective CETPs.

(Action: GPCB).

34. All industries, CETP operations in GIDC Sachin shall arrange for collection/segregation and safe disposal of municipal solid waste generated in their premises as per the provision of MSW Rules-2000 and its subsequent amendment thereafter.

(Action: All units and CETPs).

35. The sludge generated from CETPs and individual industries may be used after preprocessing for co-processing in Cement/Steel/Power Plants. It shall be explored to use this sludge as one of the raw material for manufacturing building materials.

(Action: All units and CETPs).

36. Finally it imperative for the industries, CETP operators and all others concerned in this matter to;

a) Raise their moral and commitment towards superior compliance for all environmental regulations,

b) Stay disciplined and avoid NIMBY (Not in My Back Yard) attitude,

c) Follow the system and NOT A ONE PERSONS POLICY,

Because we all; as citizens of India, are duty bound to provide our future generations a "pollution free environment."

Note:

The above recommendations do not include directions/conditions imposed through EC, CTE and CC&A or by any other means to individual industries and CETPs from time to time for environmental pollution and control by enforcing agencies. Needless to say these conditions/directions are required to be executed by them in Toto.

14. A careful reading of the observations of the Court Commissioner reveals that :

(a) In all 62 Dyeing and Printing units are internally connected to the underground drainage system of SIEL for disposal and further treatment in CETP.

(b) Flow of coloured water was observed in storm water drain of GIDC-Sachin during the visit from 1st February to 3rd February 2016 and the characteristic of the waste water is acidic in nature.

(c) The following Industrial Units were found discharging waste water outside their industrial premises in the storm water drain of GIDC-Sachin.

1) M/s. Sidhanta Creations Pvt. Ltd. at plot No. 263 to 266, GIDC Sachin.
2) M/s. Sunrise D & P. Pvt. Ltd., plot No. 2412 to 2413 GIDC Sachin.
3) M/s. Prafull Industries Pvt. Ltd., plot No. 507, GIDC, Sachin.
4) M/s. Kirtida Silk Mills, Pot No.435, GIDC Sachin.

(d) In addition to Dyeing/Printing (textile) and Chemical units, there are other industries within the GIDC-Sachin area involved in yarn, dyeing, digital printing, water jet dyeing, embroidery, power loom etc., not connected to any CETP pipeline, which are also likely to discharge waste water into the GIDC storm water drain.

(e) The quality of treated effluent from outlet of SIEL-CETP and GECL-CETP does not meet the pollution norms as stipulated by GPCB etc.

15. On 29th August 2017, the Regional Officer, Pollution Control Board placed before us the result of analysis of samples collected on eight (8) different dates during January to July 2017 from inlet and outlets waste water of "CETP-SIEL and GECL-CETP In case of SIEL-CETP the average COD value of outlet waste water was

223.75 mg. per ltr. with a variation of 196 to 269 mg. per ltr. against a permissible value of 250 mg. per ltr. However, the average BOD was 36.12 with a variation from 40 to 54 mg. per ltr. against the permissible limit of 30 mg. per ltr. In case of GECL-CETP the COD average value was 221 mg. per ltr. (156-266 mg. per ltr.) and BOD was 30.86 (29-35 mg. per ltr.). Thus, although there has been significant improvement in the performance of CETPs compared to last five years, it requires further improvement to arrest any sudden increase in BOD/COD, may be due to shock load, through appropriate dilution of inlet waste water.

16. In order to address and resolve the issues related to unauthorised disposal of effluent in GIDC-Sachin and prevent pollution in Unn Khadi, the Court Commissioner has made 33 recommendations/ suggestions to which respective parties have agreed to implement.

17. After hearing the parties and going through the pleadings as well as the report of the Court Commissioner, we are of the considered view that :

(a) as the Industrial units, which are Members of the CETP and connected to the underground pipeline systems, direct their waste water to CETPs, the

contamination of surface water, ground water and soil in the locality are due to other industrial units operating in GIDC-Sachin area which were/are not connected to any underground pipeline system.

(b) SIEL-CETP was non-compliant during the last five years due to the poor functioning of their CETPs thereby contributing to pollution in Unn Khadi area.

(c) the State Pollution Control Board has so far failed in discharging their statutory duties in regularly monitoring the activities of those industries in GIDC-Sachin area which are not connected with the CETPs and take action against the non-compliant units until the intervention by the Tribunal.

(d) the recommendations of the Court Commissioner are required to be implemented by the respective parties in order to ensure a contamination free and pollution-free environment in the locality for the present as well as future generation.

18. Establishment of CETP is a scheme introduced by the Government of India in 1991 in organised industrial areas to ensure industrial growth in an environmentally compatible manner. Usually SSI units find it difficult to have its own full-fledged Effluent Treatment Plant due to financial non-viability and low technical expertise. Initially

the scheme was meant to collect waste water from SSI Units for treatment whose plant and machinery are valued at less than 5 crores generating trade effluents of less than 25 KL/day. Subsequently, the scheme allowed SSI unit generating more than 25 KL/day and also, the medium and large scale units, subject to their meeting individual treatment standards. Therefore, closure of CETP is not a solution to abate the pollution, rather a strict vigilance and enforcement of regulation by the GPCB leading to improved performance by CETP and other industries will ensure compliance to pollution norms by such units. CETPs in Gujarat have undergone several improvements since intervention of Hon'ble High Court in the matter of "**Pravinbhai Jajbhai Patel Vrs. Mr. S.N. Shelat and Ors. in Spl. Civil Application No. 770 of 1995** and its subsequent directions. The Hon'ble High Court had also directed that all the waste water generating Units in the industrial area, where CETP is located, become member of CETP and discharge their effluent after necessary treatment to Common Pipeline for treatment in CETP. Hon'ble Gujarat High Court, in the matter of "**Vapi Industrial Association Vrs. State of Gujarat, in Civil Application No.7780 of 1996, in Spl. Civil application No. 6926 of 1994** directed the Units at Vapi which did not have

secondary treatment plant and were not members of CETP to close down by 13th March, 1997.

19. In order to ensure that industries operating in GIDC-Sachin area including the CETPs become compliant to pollution norms and thereby cause less harm to the environment, we invoke the principles of Sustainable Development, Polluters pay and the precautionary principles as mandated under Section 20 of the National Green Tribunal Act, 2010 and issue the following directions:

1) The Respondent No.4-SIEL-CETP, which was non-compliant for last 5 (five) years thereby discharging outlet waste water containing pollutants beyond the permissible limits in the environment and thus contributing to the contamination of Unn Khadi environment, shall pay an environmental compensation of Rs.20,00,000/- (Rs. Twenty lakhs) to be deposited with the State Pollution Control Board within two (2) months and the amount will be spent for restoration and restitution of the environment of the locality.

2. The GPCB shall initiate an appropriate action against the following four (4) industries, viz :

1) M/s. Sidhanta Creations Pvt. Ltd.

2) M/s. Sunrise D & P. Pvt. Ltd.,
3) M/s. Prafull Industries Pvt. Ltd.,
4) M/s. Kirtida Silk Mills.

found by the Court Commissioner discharging their waste water to open storm water drain, in accordance with law and action taken report be filed in the Registry of National Green Tribunal by the Pollution Control Board within three (3) months.

3. State Pollution Control Board shall initiate an appropriate action against the 34 industrial units identified by the Board in GIDC-Sachin area violating the disposal norms, in accordance with Law and shall ensure that no such industries are allowed to discharge their waste water to open drain or surface water or land not confirming to the disposal standard.

4. State Pollution Control Board is directed to take an appropriate action against all other Industrial Units in GIDC-Sachin, which do not have their secondary treatment plants and discharging their effluents containing pollutants beyond the prescribed unit, and are not members of the CEPTs, in order to compel them to apply to GIDC and/or CETP, as the case may be, for Membership of the existing

CETPs and get connected to such CETPs upon their Membership through underground pipeline. In case, it is not technically feasible to get the membership of the existing CETPs, the Pollution Control Board shall ensure that such industries establish their secondary treatment plants or get connected to new CETPs to be established for group/s of such industries in GIDC-Sachin within six months so as to ensure that no untreated effluent is discharged to the environment containing of pollutants in excess of the prescribed disposal standards. GIDC-Sachin is directed to co-operate GPCB in that regard. GIDC-Sachin and State Pollution Control Board shall file compliance report in the Registry before 15th March, 2018.

5. In order to implement the recommendations of the Court Commissioner, we hereby constitute a Committee consisting of Member Secretary, State Pollution Control Board as Chairperson of the Committee, Sr. Environmental Engineer of Pollution Control Board as Member Convenor, Executive Chief Officer (Environment) of GIDC, one representative of the industries connected to CETPs to be nominated by Head of SEIL who

shall meet once in every two months, prepare action plan and monitor the implementation of the recommendations. The Pollution Control Board shall file a report in the Registry of National Green Tribunal to the extent of compliance. In any case, it is the responsibility of the State Pollution Control Board to ensure implementation of the recommendations within a period of one year and file compliance report in the Registry before 30th September 2018.

20. Litigation costs of Rs.50,000/- (Rs. Fifty thousand) shall be paid to the Applicant by the State Pollution Control Board within three (3) months from the amount of environmental compensation imposed as aforesaid.

21. With the above directions, the Original Application is partly allowed and disposed of alongwith M.A. No.192/2015.

....., JM
(Justice U.D. Salvi)

....., EM
(Prof (Dr.) P.C. Mishra)

Date : 6th September, 2017
ajp