

SUPPORT TO SOCIETY

- Conducting In-plant training programmes for various academic institutions
- Improving awareness of environment among students and professionals from all disciplines.
- Well equipped laboratory facility made available to student community.
- Helping other CETPs in solving their operational problems.
- Imparting education to students & general public on CETP treatment process, conservation of water etc..
- Conducting "Tree Plantation" drive , active participation in spreading awareness among general public about "Eco – Ganesha "



FUTURE OUTLOOK

- ☆ Pilot plant operational studies to reuse/recycle treated effluent through tertiary treatment.
- ☆ Pilot plant for anaerobic treatment technology to tackle the effluent streams of high organic load.
- ☆ Processing to Obtain ISO certifications to CETP.

MONTHLY TREATMENT COST (T.C.)

(TC based on 100 % MIDC water consumption)

	S.S.I.	MSI / LSI	Associate
Fixed Cost	Rs. 900	Rs.12,200	Nil
Hydraulic Cost/CuM	Rs. 21.40	Rs. 11.55	Nil
Organic Cost (As COD / kg of Organic load >250 mg/l)	Nil	Rs. 16.50	Nil
TAN (Amonical Nitrogen) above 50mg/L		Rs. 1.10/M3	

TREATMENT EFFICIENCY OF THE PLANT

BOD Removal : 90 to 95 %
COD Removal : 80 to 85 %

'ठाणे-बेलापूर औद्योगिक पट्टा' आशिया खंडातील एक मोठा औद्योगिक पट्टा आहे. या औद्योगिक पट्ट्यामध्ये विविध प्रकारच्या मोठ्या व मध्यम कारखान्यांबरोबर लघुउद्योगांची संख्याही मोठी आहे.

कोणत्याही प्रकारच्या उत्पादननिर्मितीमधून निर्माण होणाऱ्या जलप्रदुषकांची योग्य प्रकारे विल्हेवाट लावण्यासाठी 'औद्योगिक सांडपाणी प्रक्रिया संयंत्र' आवश्यक असते. मोठे व मध्यम कारखानदार अशी यंत्रणा उभारण्यास व राबविण्यास सक्षम असतात. परंतु लघुउद्योगांकांना जागा, तांत्रिक कौशल्य व आर्थिक उपलब्धतेच्या अभावी अशी यंत्रणा स्वतंत्रपणे उभारणे व चालविणे शक्य होत नाही. ही अडचण दूर करण्यासाठी वन व पर्यावरण मंत्रालय- केंद्र शासन, केंद्रीय तसेच राज्य प्रदुषण मंडळ, राज्य औद्योगिक विकास महामंडळ व जागतिक बँक यांनी स्थानिक औद्योगिक संघटनांना 'सामाईक औद्योगिक सांडपाणी प्रक्रिया केंद्र' (कॉमन एफ्लुएन्ट ट्रीटमेंट प्लांट) उभारण्यास प्रोत्साहित केले (१९९०). याचा लाभ घेऊन ठाणे-बेलापूर औद्योगिक संघटनेने इतर लघुउद्योग संघटनांच्या सहकार्याने 'कॉमन एफ्लुएन्ट ट्रीटमेंट प्लांट (ठाणे -बेलापूर) असोसिएशन' ची स्थापना केली व सामाईक प्रक्रिया केंद्राचा पहिला टप्पा म्हणून १२ दशलक्ष लीटर्स / प्रतिदिन क्षमतेचा 'एक्सॅन्डेड एरिएशन अॅक्टिवेटेड स्लज' प्रक्रियेवर आधारित प्रकल्प बांधून कार्यान्वित केला (नोव्हे. १९९७). तसेच निर्माण होणाऱ्या अतिरिक्त सांडपाण्यावर प्रक्रिया करण्यासाठी १५ दशलक्ष लीटर्स / प्रतिदिन क्षमतेचा दुसरा टप्पा बांधून कार्यान्वित केला आहे (मार्च २००६). हे दोन्ही प्रकल्प 'महाराष्ट्र प्रदुषण नियंत्रण मंडळानी घालून दिलेले निर्बंध पाळण्यात यशस्वी ठरले आहेत.

ठाणे-बेलापूर सामाईक औद्योगिक सांडपाणी केंद्रामध्ये सर्व सांडपाणी भूमीगत वाहिनीद्वारे आणले जाते.

वरील दोन्ही प्रकल्पांमुळे ठाणे-बेलापूर औद्योगिक पट्ट्यात निर्माण होणाऱ्या २७ दशलक्ष लीटर्स औद्योगिक सांडपाण्याची दररोज योग्य प्रक्रिया केली जाते.

सदर प्रकल्पांची सुविधा लघु उद्योजकांबरोबर मोठ्या व मध्यम कारखानदारांनाही उपलब्ध करून देण्यात आली आहे. यामुळे काही महत्त्वाचे फायदे झाले :

- भक्कम आर्थिक स्थिती
- प्रक्रिया केलेल्या सांडपाण्याच्या एकत्रीकरणामुळे प्रदुषकांची होणारी सौम्यता
- एकाच भूमीगत वाहिनीद्वारे संपूर्ण प्रक्रियायुक्त (२७ दशलक्ष लीटर्स / प्रतिदिन) सांडपाणी वाशी खाडीमध्ये सोडण्याची सोय.

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वसुंधरा पुरस्कार २०१९



CETP



वसुंधरा पुरस्कार २०१८

Common Effluent Treatment Plant (Thane-Belapur) Association

Mr. V.S. Chalke
Founder Chairman
Period : 1993 - 2003

Present Board Of Board

Mr. S. R. Iyer Chairman
Mr. P. V. Shimpi Vice Chairman
Dr. M.P. Deshpande
Mr. Sandeep Kundra
Mr. J. John
Dr. N.T. Joshi
Mr. Rajesh Kumar Gupta
Mr. R. M. Desai
Mr. Akhilesh Kumar Singh

CETP Staff

Mr. Jeetendra Adhav
Mr. Krishnat Pisal
Mr. Bharat Chaskar

Intensive efforts were made by Thane Belapur Industries Association (TBIA) to set up a CETP in MIDC, TTC industrial area. The plant of 12 MLD capacity (Phase - I) is in successful operation since 1997.

In order to tackle extra load generated by the industries in TTC industrial area, an Additional Common Effluent Treatment Plant of 15 MLD Capacity (Phase - II) was envisaged and is commissioned in 2006.

The 12 MLD CETP is designed by M/s. Environmental Engineering Consultants and is executed by M/s. SACEDE INDIA LTD. For the Additional CETP of 15 MLD Capacity, all the process design work has been carried out by CETP (Thane-Belapur) Association with in-house expertise and M/s. Paramount Ltd were the Turnkey Contractors for the job.

CETP (Thane - Belapur) Association is a registered organisation under Section VIII of Companies Act 2013 and is managed by the Board of Directors. Representatives of user members form the Board of Directors and give honorary service.

This CETP has achieved an enviable position of "one of the best run CETP in India" which was acknowledged by Maharashtra Pollution Control Board by awarding "VASUNDHARA AWARD" -2015 and 2018.

SCHEME OF CETP

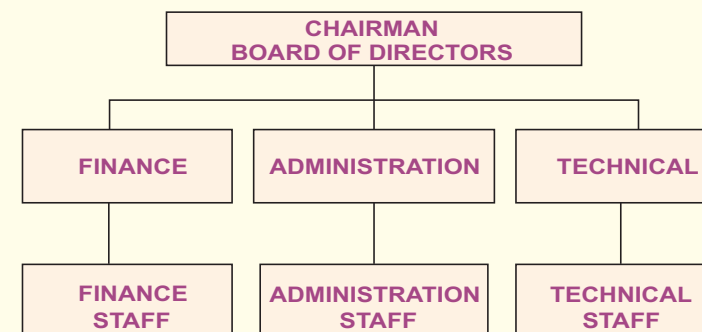
CETP scheme was implemented mainly to tackle the problem of liquid effluents generated especially from small scale industrial units (SSI) who are having techno economic constraints. The facility was also made available to all medium & large scale industrial units (MSI/LSI) with the aim to strengthen the financial support, to obtain dilution effect due to mixing of treated effluents and to utilize the common single disposal system.

Ministry of Environment & Forest, Central and State Pollution Control Board, Maharashtra Industrial Development Corporation & World Bank are actively involved in setting up of CETP facility and are extending their cooperation for successful operations of CETP.



Aeration Tank

ORGANISATIONAL SETUP



Clarifier

DETAILS OF CETP MEMBERS

(as on March 2024)

Small Scale User / Special Members	861 Nos.
Medium/Large User Members	174 Nos.
Non User Member (Associate Members)	2528 Nos.

MEMBERS CAPITAL CONTRIBUTION

USER MEMBERS.

Medium / Large Units.	: Rs. 5,00,000 /-
Small Scale Industries	: Rs. 75,000 /-

ASSOCIATE MEMBERS

Medium / Large Units.	: Rs. 1,00,000 /-
Small Scale Industries	: Rs. 20,000 /-

SCHEME OF OPERATION

CETP membership has been made mandatory by MPCB. User Members have to enter into Tripartite Agreement regarding the use of CETP facility and also agree to pay cost of treatment through MIDC Water Bill

* SSIUNITS :

Undertake primary treatment in terms of pH, degreasing, removal of suspended solids & detoxification if any and are allowed to discharge primary treated effluent to inlet of CETP.

* MSI/LSIUNITS :

Undertake Primary & Secondary treatment and discharge treated effluents meeting prescribed discharge norms to inlet of CETP.

* ASSOCIATE MEMBER :

These members are those, who do not generate industrial trade effluents. Their domestic effluent is accepted by CETP as hydraulic load. No treatment charges are levied to these units.

The combined effluents received at the inlet of CETP are fully treated and discharged through the disposal line meeting the prescribed discharge norms laid down by MPCB.

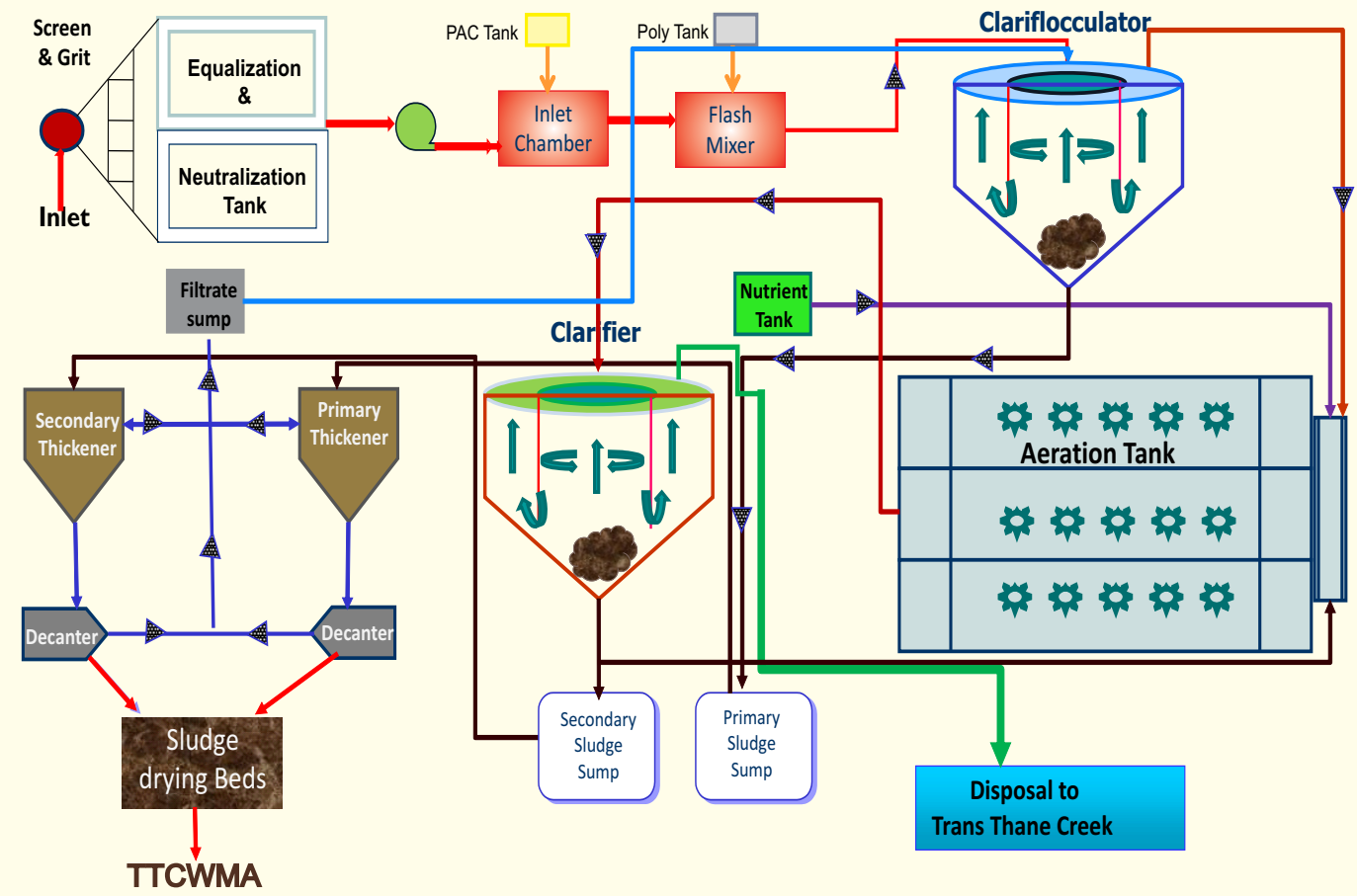
SALIENT FEATURES OF THE PROJECT

LOCATION	: P-18 & P-60, Khairane MIDC, Navi Mumbai.
COLLECTION SUMPS	: At Sanpada, Pawane & Rabale
CAPACITY	: 27,000 CuM /Day (Two independent plants of 12 MLD & 15MLD Capacity)
TREATMENT TECHNOLOGY	: Extended Aeration Activated Sludge Process
MODE OF RECEIVING EFFLUENT IN CETP	: Underground drainage network. Through tanker loads in special cases
FINAL DISCHARGE POINT	: Trans Thane Creek through underground Pipeline provided by MIDC.
SLUDGE HANDLING & DISPOSAL	: Member of TTCWMA for Secured Land filling.

DETAILS OF VARIOUS UNITS OF TREATMENT SCHEME

Sr. No.	Units	12 MLD PLANT		15 MLD PLANT	
		Capacity (CuM)	Retention time	Capacity (CuM)	Retention time
1	Equalisation Tank (4 Nos.)	2,375 (each)	4.5 hrs.	2,500(each)	4.0 hrs.
2	Inlet Chamber	8	52 sec.	10	58 sec.
3	Flash Mixer	6	39 sec.	10	58 sec.
4	Clariflocculator	1,716	3.5 hrs.	1,980	3.17 hrs.
5	Aeration Tank	15,500	31.5 hrs.	16,000	25.6 hrs.
6	Clarifier	2643	5.25 hrs.	3200	5.12 hrs.
7	Sludge Sump (2 Nos.)	70 (each)	---	125 (each)	---
8	Thickner (2 Nos.)	280(each)	---	310 (each)	---
9	Filtrate Sump	45	---	160	---
10	Sludge Drying Bed	400 Sq.Mt.(2 Nos.)	---	400 Sq.Mt (5 Nos.)	---
11	Volute / Monobelt / Centrifuge	4 No.	---	6 Nos.	---

EXTENDED AERATION ACTIVATED SLUDGE PROCESS



DESIGN, INLET & OUTLET CHARACTERISTICS

Parameters	Design Characteristics		Inlet Characteristics	Outlet Characteristics	Discharge Limits
pH	2.0 to 6.2	4.0 to 7.0	5.5 to 7.5	7.0 to 7.5	5.5 to 9.0
COD mg/l	3200 mg/l	2000 mg/l	900 to 1500	180 to 240	250
BOD mg/l	1000 mg/l	1000 mg/l	400 to 900	10 to 50	100
TSS mg/l	340 mg/l	340 mg/l	100 to 300	25 to 75	100
O&G mg/l	170 mg/l	170 mg/l	25 to 75	< 5	10

FINANCE DETAILS

CONTRIBUTIONS	12 MLD PLANT	15 MLD PLANT
Loan from Financial Institution (IDBI)	Rs. 140 lacs	----
Subsidy from State & Central Govt	Rs. 100 lacs	Rs. 425 lacs
Contribution from User members	Rs. 160 lacs	Rs. 425 lacs
TOTAL PROJECT COST	Rs. 400 lacs	Rs. 850 lacs

For initial 12 MLD Plant, the Infrastructures like Drainage Network, Pumping stations, Transformers & Biological Tank were handed over by MIDC.