



Nurturing Nature



**THE GREEN ENVIRONMENT
SERVICES CO-OP. SOCIETY LTD -VATVA**

(Common Effluent Treatment Plant & Secured Landfill Facility)
AN ISO 9001, 14001 & OHSAS 18001 CERTIFIED COMPANY

History



The Vatva-GIDC was established in 1960 at south east of Ahmedabad city to accommodate more than 1800 small and medium scale industrial units

The current turnover of Vatva is Rs 15,000 crore and export is around Rs 7500 crores

Vatva Provides 1,00,000 direct and 50,000 indirect employments

More than 680 units have water pollution potential due to effluent generation

These industrial units include manufacturing of Dyes, Dye-intermediates, Pigments, Fine Chemicals and Pharmaceuticals products, Textile process houses and Non-chemical industries

They faced constraint of space, finance as well as suitable technology for proper treatment and disposal of effluent and sludge in compliance with the Environmental Legislation.

To solve this problem and to prevent environmental pollution, THE GREEN ENVIRONMENT SERVICES CO-OPERATIVE SOCIETY LTD. was established with the foothold of Vatva Industrial Association (VIA).

Our Establishments



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Objective of GREEN

To prevent pollution

To conserve energy

To safeguard Environmental resources

To achieve sustainable growth and development in all areas

To operate plant safely by providing safe & healthy environment to workers

To achieve our objectives and to resolve the problem of water pollution of 680 units of GIDC-Vatva, GESCSL has set up the Environmental Infrastructure Facilities and Management Systems i.e.,

1. Common Effluent Treatment Plant (16 MLD) – for low COD effluent
2. Multiple Effect Evaporator with 8 effects (300 KLD) – for high TDS effluent
3. Spray Dryers(3 Nos.-total 624 KLD capacity) – for very high TDS effluent
4. Secured Landfill Facility –for safe disposal of Hazardous Solid waste
5. Novel Spent Acid Management Facility – for treatment and safe disposal of spent acid from the member units located in Odhav, Vatva and Naroda GIDC.

Our Contribution

From the beginning, we are very actively working to control the environmental pollution and for protection of environmental quality.

We are constantly devoting our all the possible efforts and resources to maintain the clean Environment.

We are adopting advanced technologies to achieve highest standards of performance in our EMS.

We are also active in creating environmental awareness in industry, public and workers.

We are always endeavoring to continually improve our capability in waste minimization, energy efficiency, cleaner production, treatment and disposal of waste.

1. Common Effluent Treatment Plant



Commissioned:	September-1998
Treatment Capacity:	16 MLD (Planning to expand the capacity to 35 MLD)
Land Area:	28000 sq. mt. + 15000 sq. mt. (for proposed expansion)
Cost of CETP:	74.41 crore + 45 crores (for proposed expansion)
No. of members:	674 members

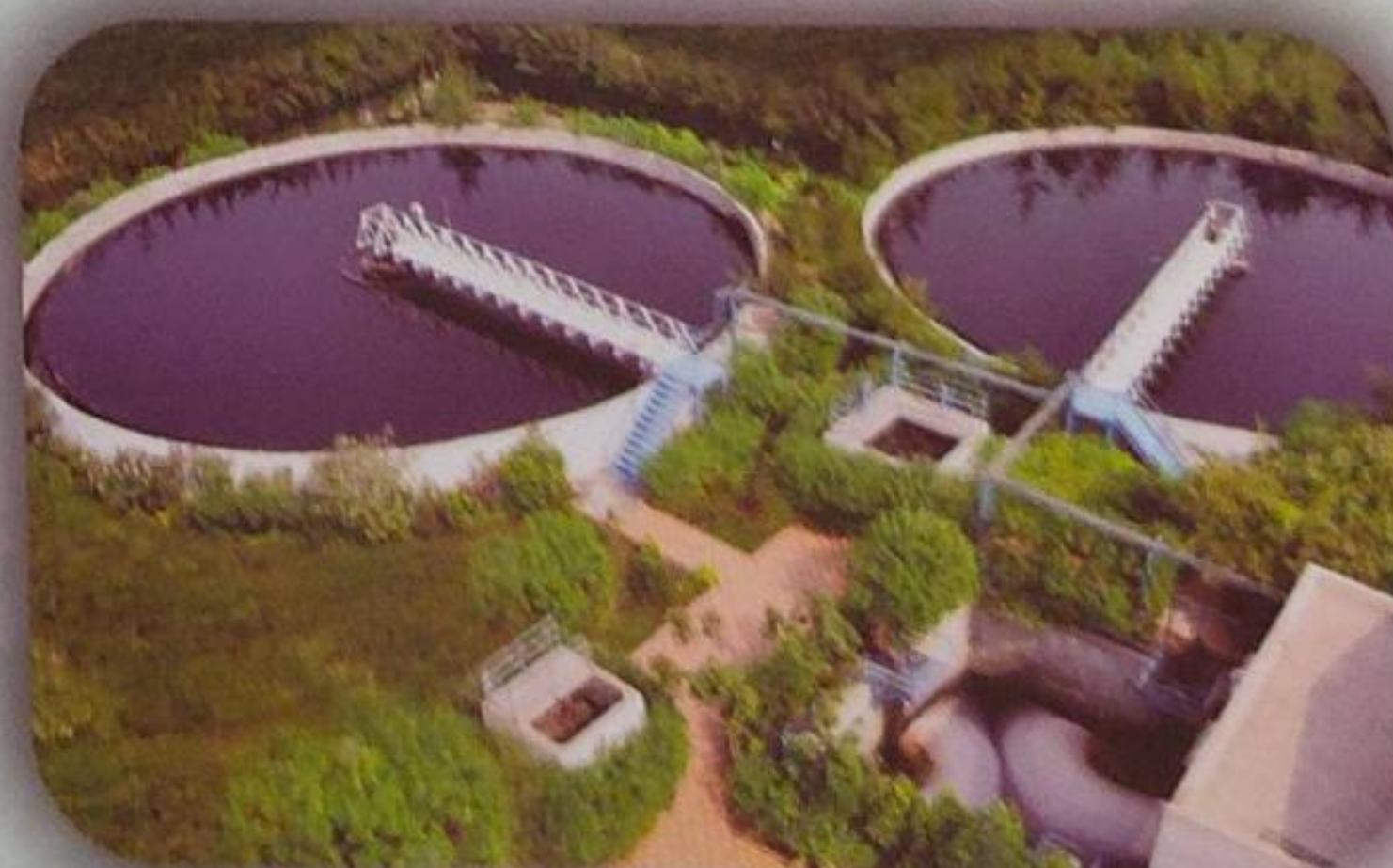
Type of Industry	Total
Dyes, Intermediates & Chemicals	88%
Pharmaceuticals and Food Industries	4%
Textile Processing	3%
Engineering & Plastic Processing	3%
Ice Factories	2%

Treatment Technology:

Primary treatment consisting of physico-chemical processes followed by Activated Sludge type Biological Process

Establishment and operation of CETP is for the collection, treatment and safe disposal of treated effluent after confirming effluent discharge norms of GPCB.

There is no by-pass line in our CETP.



2. Multi Effective Evaporator



Commissioned: March-2014
Capacity: 300 KLD
Land Area: 6034.10 sq. mt.
Cost of CETP: 18 crore
No. of members: 223 members

Treatment Technology:

GESCSL has installed MEE plant of 8 effects to treat and dispose the concentrated effluent (<2,50,000 TDS effluent) by the steam from coal fired boiler.

3. Spray Dryers (3 nos)



Commissioned: 1 in January-2016
2 in December-2017
Capacity: Total 624 KLD
Land Area: 9042 sq. mt.
Cost: 24 crore
No. of members: 223 members

Treatment Technology:

For treatment and disposal of specific concentrated effluent (>2,50,000 TDS effluent) which could not be treated in MEE plant. In Spray Dryer the treatment to effluent is given by the hot air from coal fired hot air generator.

4. Secured Landfill Facility



Commissioned: March-2003 to Nov-2013
Capacity: Cell-1 - 0.75 lakh MT
Cell 2 - 3.00 lakh MT
Cell-3 - 8.50 lakh MT
Total Capacity- 12.25 lakh MT
Land Area: 68881 sq. mt.
Investment Cost: 16.20 crore
No. of members: 684 members

Treatment Technology:

SLD was established and operated for the safe disposal of hazardous solid waste being generated by industrial units.

The site has been closed from Nov-2013.

Currently, the site is capped by proper vegetation cover.



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NOVEL

SPENT ACID MANAGEMENT



The concentration of sulphuric acid in the spent acid is normally in the range of 10-30%. The individual industries find it difficult to store, handle or treat it effectively. It was therefore decided to establish this facility in the name of NOVEL SPENT ACID MANAGEMENT.

Commissioned:	November - 2009
Capacity:	700 KLD Spent Acid
Land Area:	43927.43sq. mt.
Cost:	36 crore
No. of members:	205 members

Treatment Technology:

700 KLD of Spent acid from member units is neutralized and generated Gypsum is sent for co-processing in cement industry. Already obtained permission from CPCB under Rule-9.

This is first of
its kind Spent Acid
Handling and Waste
Exchange Project
in the country

Our Innovation



Most efficient internal effluent collection system for systematic quality/quantity control over the effluent discharged by member units.

94-SCADA PLC based sump rooms for quantifying effluent discharged by member units.

Auto samplers are installed at all the 7 pumping Stations for automatic composite and continuous sample collection and then for analysis of the effluent discharged by member units.



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Uniqueness

Only estate in the country, which has all the Common Environmental Pollution Control Facilities (i.e., CETP, TSDF, MEE, Spray Dryer & Spent Acid Management Facility) at one place, working under co-operative body.

Only facility in India, where at one place... Such huge amount (i.e., 924 KLD) of high TDS effluent is treated and safely disposed through MEE/Spray Dryer.

Such huge amount (i.e., 700 KLD) of Spent acid is neutralized at Novel Spent Acid Management Facility under GESCSL.

Mobile Application has been launched in NOVEL for member units for registering the tankers, bill payment, raising quarries and view the results, hence nothing is manual basis.

Only estate in Gujarat, who has decreased CEPI score from 74.77 (Year-2010) to 44.01 (Year-2017) and successfully released from the critically polluted area as per the guidelines given by CPCB.

Achievements



Our CETP is certified with ISO 9001:2008, ISO 14001:2004 and ISO 18001:2007 for provisions of services for effluent collection, treatment and discharge.

Our SLF is certified with ISO 9001:2008, ISO 14001:2004 and ISO 18001:2007 for provisions of services for collection and storage of solid waste.

Won Golden Peacock Environment Management Award 2007

We have NABL accredited laboratory

Social Activities

We are operating polyclinic at Vatva in association with Vatva Industrial Association (VIA).

Often, we are organizing blood donation camps jointly with VIA.

We are also organizing medical camps for the patient of diseases related to eyes, diabetes etc.

We have also carried out cleaning and replenishment of Vinzol pond near our CETP.

We are also helping the affected people by distributing food packets, grain kits and water pouches during natural calamities.

We are distributing uniforms, note books to the students of nearby schools.



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