



NCTL

Narmada Clean Tech Limited

Overview

Narmada Clean Tech. (NCT) formerly known as Bharuch Eco Aqua Infrastructure Ltd. (BEAIL) is a company, subsidiary of Gujarat Industrial Development Corporation (GIDC). GIDC is a statutory corporation and 100% owned by Govt. of Gujarat. NCT is also jointly promoted by Member Industries of Ankleshwar, Jhagadia and Panoli Industrial Estates. Effluent is being discharged through scientifically designed diffusers at ocean outfall point; wherein instantaneous dispersion and tremendous dilution are exist. Synergistic combination of "Treatment Technology" and "Discharge Technology" is adopted to treat pollutants.

The Final Effluent Treatment Plant (FETP) is spread over more than 3,00,000 sq. meters of land, has treatment capacity of 60,000 m³ per day (60 MLD). More than 75000 trees are planted to cover bare land. Facility was commissioned in December, 2006 to treat 40,000 m³ per day (40 MLD) of effluent using conventional biological treatment.

M/s. Narmada Clean Tech Ltd., is an FETP (Final Effluent Treatment Plant) situated at Ankleshwar, Gujarat. 40MLD CETP was commissioned on 01/12/2006 and it receives effluent from 3 different CETP's and various industries like chemical companies, dyes manufacturers etc. HP Triton into the plant in the year on 2015.

Narmada issue

Prior to commencement of this project, treated effluent from three industrial estates were disposing off into a natural creek namely Amlakhadi leading to Narmada Estuary. Objection was raised by local population and NGOs against disposal of effluent and subsequently High court has intervened and directed to stop the disposal of effluent into Amlakhadi. Afterwards in high level Committee Meeting chaired by ACS, it was decided to treat effluent up to marine standard and to release into Gulf of Khambhat beyond Narmada Estuarine Zone. NCT was set up to honor the directives given by the High Court.



Challenges

- They had installed diffused bubble aeration system with membranes (1500Nos. of membranes installed in each aeration tank). These membranes were subjected to fouling ultimately leading to failure of membrane.
- Failure of a membrane offers least resistance path to air. Thus huge quantity of air starts escaping without imparting oxygen to wastewater. Thus Dissolved oxygen (DO) level starts dropping. Also mixing is affected adversely.
- Though membranes were retrievable type, practically due to huge area of aeration tank it was not feasible to replace failed membrane.
- Under the situation NCTL was forced to stop aeration and remove entire volume of water for replacement of failed membranes and entire activity of Replacement took more than a week.
- Failure rate was so high that one team was required round the year for replacement work.
- Air to the membranes are supplied through twin lobe blowers, which generates high noise which was one of the major issues.
- They had seen the performance of Triton Process Aerator /Mixer in other industries and replaced their Diffused Aeration System with our technology.





Solution

Eurotek Environmental Pvt Ltd has shake hands with **Narmada Clean Tech on Narmada Project** and provided assurance in order to taking care of the world class **Narmada** water purity and its beauty.

After various analysis and discussions we have authenticated the **Narmada's** concern and as a solution we installed we have installed **50Nos. of 30HP Triton Process Aerators / Mixers in their Aeration Tanks.**

After seeing the performance of Triton Aerators in their tanks **Narmada Clean Tech** have given us a repeat Order for 25 Nos. of 30HP Triton Process Aerators / Mixers.

Result

As per the commitment we delivered better than what we commit. And its result is..

- Improving the lake water quality form Hyder-eutrophic condition to Mesotrophic condition.
- Increasing the biodiversity of the lake.
- Increasing in pisci-culture activities, leading to recreational fishing.
- Employment generation by Eco-tourism activities.
- Increasing the recreating facilities
- Improving the groundwater quality on daily basis
- Improving human health of lake surround
- Improving the aesthetics

With the perfect technology we have successfully installed **75 Nos of Triton Process Aerators in Narmada's Aeration Tanks.**



CASE STUDY

" Providing You The World's Best Water and Advanced Waste Water Treatment Solutions"



Voice of the client

We have observed good efficient in the following terms of Quality.

- Mixing efficiency
- Oxygen Transfer Rate
- BOD Reduction
- Noise Level (Compare to conventional twin lobe blower)

The entire Augmentation of the Aerator was quite successful done by **Eurotek Environmental Pvt Ltd** because of which we are getting the desire reduction in BOD. Their Installation work and service support are satisfactory.

We are completely satisfied with the overall performance of these Aeration and services provided by Eurotek Environmental Pvt Ltd.

Impact

As ultimate receiving body is sea, post marine surveys were conducted (Environmental impact assessment study) by NIO/CSMCRI/NEERI in November – 2007, April – 2010 and April – 2012 respectively. Surveys concluded that status of water/sediment quality at and nearby ocean outfall point is totally intact and characteristics found similar to that of base line data. Aquatic life observed totally unaffected.

Solution Providers

Questions on how we can help and solve the challenges you're facing with your diffused aeration system? Contact us at 040 – 46245555 or 040 – 46245510 for more information. Together we can create most innovative solutions for your wastewater challenges.



We are Exclusive Authorized Dealer of
M/s. Aeration Industries International Inc. USA,
in India for their entire product range



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