

AIRE-O₂ TRITON® TR SERIES COMBINED WITH DIFFUSED AERATION IMPROVES CHEMICAL EFFLUENT QUALITY



CASE STUDY

OVERVIEW

Daurala Organics Limited, a chemical producer in Daurala, India, manages 2780m³/d flow in their activated sludge process plant. Daurala has two aeration tanks that treat flows of 1800m³/d and 980m³/d from the manufacturing of chemicals like benzaldehyde and sodium sulfate.

CHALLENGES

Daurala Organics initially installed diffused aeration in their activated sludge basin. Over time, they found the diffused air system was fouling and clogging, reducing the quality and efficiency of treatment in the plant.

Daurala Organics also required equipment that needed little maintenance and could withstand the corrosive conditions without losing efficiency over time.

SOLUTION

Daurala Organics partnered with Aeration Industries International's local partner, Environmental PVT. LTD. to design a solution that met their specific needs. To reduce fouling and clogging in the diffused air system and improve overall treatment efficiency, two Aire-O₂ Triton® TR Series aerators/mixers were placed in each tank.

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RESULTS

With the Aire-O₂ Tritons installed, Daurala Organics is seeing their effluent quality return. Additional benefits from the use of the Aire-O₂ Tritons have been observed by Daurala Organics since installation:

- High oxygen transfer rate and mixing with low energy consumption
- Low maintenance
- No downtime while maintaining equipment
- Consistent aeration that does not foul or clog

IMPACT

With the Aire-O₂ Tritons installed at the surface and the diffuser system at the bottom of the tanks, Daurala Organics is seeing improved effluent quality. They are also seeing significant resource savings; as the Aire-O₂ Tritons are durable in this chemical environment, require little maintenance, and downtime is no longer a concern.

SOLUTIONS PROVIDER

Questions on how we can help solve challenges you're facing with your diffused aeration system? Contact us at [+1-952-448-6789](tel:+19524486789) for more information. Together, we can create innovative solutions for your wastewater challenges.