

# TURNAROUND WASTEWATER TREATMENT PLANT, EQUATE

**The project focused on setting up a Containerized Waste Water Treatment Plant for the Turnaround Wastewater Treatment.**

The plant was designed to treat wastewater generated during the turnaround of several key units. The wastewater was produced due to decontamination processes and the treatment process was necessary to meet Environmental Protection Agency (EPA) requirements before safe disposal to the sea.

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## Challenges

- High COD levels made wastewater hard to treat.
- Toxic compounds (Benzene, Toluene, Xylene, H<sub>2</sub>S) added treatment challenges.
- Wastewater quality varied across units, containing solids, aromatics, tar, coke, amines and spent caustic.

## Solutions

- Pilot Trials: Validated treatment for variable wastewater.
- Treatment Process: Gravity separation → DAF & oleophilic filters → Electro Oxidation → media & carbon polishing.
- Containerized & Flexible: Portable design, handles high TOC/pH effluents.

## Results

- Effective Treatment: Over 26,000m<sup>3</sup> wastewater treated across units.
- High-Quality Effluent: COD, TSS, Benzene reduced within regulatory limits.
- Flexible & Cost-Effective: Handles multiple units with minimal setup and downtime.

**For detailed techno-commercial proposal or site visit coordination,**

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## Impact

- Successfully managed high-strength and variable wastewater streams.
- Delivered safe, compliant effluent with minimal environmental impact.
- Portable, flexible plant ensured efficient operation and reduced costs.