

MBR (Membrane Bioreactor)

Mangalore Refinery and Petrochemical Ltd (MRPL), Mangalore, India

How we create value

- Flexible, low energy, low cost Membrane Bioreactor
- Effective water treatment for reuse limits water consumption and associated costs
- Secured industry recognition for sub-contractors and contractors, as well as delivering operational efficiencies to end clients



Brief

MRPL is planning to expand its refinery to 15 MMTPA from the existing nameplate capacity of 9.69 MMTPA. As part of this expansion, a new wastewater treatment plant with a capacity of 615 m³ / hr (14.76 MLD) is required. Our MBR System was chosen for its operational flexibility, low energy consumption and lowest constructed cost.

Outcome

MRPL's Membrane Bioreactor (MBR) Effluent Treatment Plant (ETP) is probably the largest to date in India. Thanks to our strong process and engineering support, project contractor Paramount Limited has been able to secure 'Code 1' approval from consultants Engineers India Limited (EIL) for the MBR package.

Solution

The MBR System consists of an anoxic basin, pre-aeration basin and submerged membrane basin. Water treated by the MBR will be fed to Reverse Osmosis unit for the removal of dissolved solids. Treated water will then be reused within the refinery.

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