

Petrochemical – Primary Screening

Vishakhapatnam, India

How we create value

- Reliable removal of floating and suspended solids protects critical equipment
- Few minimal parts to minimize risk of mechanical failure
- Low maintenance assures lower operating costs



Brief

HPCL is a Fortune 500 company. Its annual turnover in the 2009-10 financial year was 1.08599 trillion rupees and sales income totalled 1.14889 trillion rupees (i.e. US\$25.306 billion).

HPCL's two major refineries produce a wide variety of petroleum and specialty fuels. The capacity of the Mumbai refinery is 6.5 million metric tons per annum (MMTPA). Vishakhapatnam capacity runs at 8.3 MMTPA.

In 1985 Ovivo's heritage brand Brackett Green supplied five cup screens to HPCL's Vishakhapatnam refinery. Cup screens clarify seawater for use in plants and are designed for fine filtration.

Ovivo's cup screens eliminate the possibility of material larger than the media aperture bypassing the screen, and are ideal for protecting sensitive membranes from debris. The original cup screens' carbon steel mesh panels and grade 316 stainless steel shaft were still in excellent condition after twenty-five years; however, HPCL wanted to upgrade them for additional corrosion resistance and to ensure continued long-term durability.

Solution

Ovivo will supply new screens' of identical dimensions but with grade 316 stainless steel panels and a stronger, even more corrosion-resistant duplex stainless steel shaft.

Outcome

HCPL's new screens will build on twenty-five years' reliable service, with no screen bypassing or debris carry-over. The screens enduring design is a guarantor of reliable performance leading to virtually maintenance-free operation.

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