



INTEGRATED ZLD AND WATER REUSE SOLUTION FOR MAJOR INDUSTRIAL OPERATION

WOG Technologies designed and executed a complete water and wastewater treatment solution for an industrial facility operated by leading industrial facility in Southeast Asia.

The project focused on advanced treatment and reuse, with a strong emphasis on reducing TDS, achieving near-zero liquid discharge (ZLD), and meeting stringent environmental regulations.

Key Technologies:

MMF, ACF, RO, MB, EQT, PC, DMF, UF, MEE

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Challenges

- Very high TDS (up to 54,000 ppm) and suspended solids
- Strict near-zero liquid discharge norms
- Reliable, high-capacity treatment required
- Combined freshwater treatment & effluent recovery

Solutions

- Water Treatment (MMF-ACF-RO-MB): Reduces TDS & SS, delivers ultra-pure industrial water.
- Effluent Treatment – ZLD (EQT-PC-DMF-UF-RO-MEE): Treats high-strength effluent, lowers TDS, enables water recovery & reuse.
- Multi-Effect Evaporator (MEE): Concentrates reject streams, minimizes liquid waste, ensures ZLD compliance.

Results

SYSTEM	FLOW m ³ /day	TDS
WTP	4152 → 2424	550 → <5
ETP	1920 → 1857.6	1618 → <240
MEE	72 → 71.04	54,000 → <100

- Water Treatment: TDS <5 ppm, SS <1 ppm
- ETP-ZLD: TDS <240 ppm, minimal flow loss
- MEE: TDS <100 ppm, high throughput maintained

For detailed techno-commercial proposal or site visit coordination,

✉ **Drop us an e-mail at:**
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Impact

- Produced ultra-pure water for process reuse
- Achieved near-zero liquid discharge
- Ensured regulatory compliance with lower environmental impact
- Enhanced operational sustainability via maximum water recovery.