



RECYCLE/REUSE-BASED EFFLUENT TREATMENT PLANT FOR ENGRO FOODS LIMITED

WOG Technologies successfully designed and implemented a 1850 m³/day Recycle/Reuse Based Effluent Treatment Plant (ETP) for Engro Foods Limited at their Sahiwal Unit, Punjab, Pakistan.

The project, commissioned in 2015, aimed to treat critical effluent and ensure water recovery through advanced filtration and reverse osmosis (RO) technology.

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Challenges

- High TDS (1350 ppm) required advanced purification
- COD up to 8 ppm needed effective treatment
- Silica (14 ppm) and sodium (594 ppm) posed scaling/fouling risks
- Must meet regulatory standards while maximizing water recovery


Solutions

- **Equalization Tank:** Balances flow and load, protects equipment
- **Bio-Polishing Filter:** Lowers BOD & solids, prevents fouling
- **UF:** Removes solids, bacteria, ensures low SDI
- **RO:** Cuts TDS from 1350 ppm to <50 ppm for reuse

Results

- **High-Quality Effluent:** Treated water achieved TDS <50 ppm, suitable for industrial reuse.
- **High Recovery:** Plant recovered 1,387.5 m³/day, minimizing wastewater discharge.
- **Sustainable Operations:** Enabled water recycling, reducing environmental impact.

For detailed techno-commercial proposal or site visit coordination,

 **Drop us an e-mail at:**
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Impact

- Reduced freshwater consumption through water reuse
- Minimized industrial discharge to meet standards
- Lowered operational costs for water intake and disposal
- Ensured uninterrupted and scalable plant operations