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Wipro Water (Division of Wipro Enterprises Pvt Ltd)

Efficient Treatment of Raw Water and Effluent in the Edible Oil Industry

As sustainability and regulatory compliance become critical in the edible oil industry, wastewater treatment must evolve beyond conventional methods. Our approach integrates advanced treatment technologies to maximize efficiency, recover valuable resources, and minimize environmental impact. The process begins with a high-performance pretreatment system, where oil skimmers, Dissolved Air Flotation (DAF), High-Rate Solid Contact Clarifiers (HRSCC), and aeration systems work together to remove impurities effectively.

Beyond treatment, we unlock the potential of wastewater as an energy source by implementing Up flow Anaerobic Sludge Blanket (UASB) reactors, which generate biogas and contribute to energy self-sufficiency. Water recycling plays a pivotal role in our strategy, utilizing Ultrafiltration (UF) and Reverse Osmosis (RO) to reclaim high-quality water for reuse in industrial operations. To achieve Zero Liquid Discharge (ZLD), we incorporate Multi-Effect Evaporators (MEE), ensuring complete elimination of liquid waste and maximizing resource recovery.

By transforming wastewater into a sustainable asset, this innovative framework sets new benchmarks for efficiency and environmental responsibility in the edible oil industry.