[Type a caption for your photo]

WASTEWATER TREATMENT

At Avlon Inc., we are driven by a singular vision — delivering smart, sustainable, and scalable engineering solutions that address the critical needs of water, energy, and environment. With a proven track record across the Philippines and Southeast Asia, we specialize in technologies that serve industries, communities, and the planet.

Our wastewater treatment solutions are engineered to meet stringent DENR DAO 2016-08, as amended by DAO 2021-19 regulatory standards while ensuring efficient, low-maintenance operations. From MBBR to electrocoagulation and DAF systems, we provide customized treatment processes that safeguard water bodies and public health.

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Who We Are

About Us

With over 35 years of expertise in wastewater treatment plant, air pollution control equipment's, industrial steam boiler including power plants and oil refinery design, engineering, construction and commissioning, AVLON has been a trusted industry leader since 1980. Renowned for excellence, we have played a key role in pioneering projects across India's oil and refinery sector, setting new standards in quality and innovation.

In 2015, AVLON expanded its operations to the Philippines, establishing itself as a premier integration contractor in the Energy and Environmental Sector. We operate with a strong infrastructure, including state-of-the-art heavy lifting and construction tools, a full-scale fabrication shop, a vast warehouse, and an advanced design and engineering facility.

With a commitment to excellence and innovation, AVLON continues to lead the way in shaping the future of the Energy and Environmental Sector in Philippines.

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Avlon's Advanced Lamella Clarifier Technology

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The Lamella Clarifier is a highly efficient solid-liquid separation system designed to remove suspended solids, chemical flocs, and precipitated contaminants from wastewater. Conventional sedimentation tanks require large surface areas and long retention times for effective settling. Lamella Clarifiers overcome this limitation by using inclined plate settlers, which significantly increase the effective settling area within a compact footprint. This technology allows industries to achieve high clarification efficiency while minimizing space requirements and construction costs..

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Before entering the Lamella Clarifier, wastewater typically undergoes coagulation and flocculation where chemicals such as aluminum sulfate or polymers are added to destabilize colloidal particles and form larger flocs. The conditioned water then enters the clarifier through a uniform inlet distribution system designed to reduce turbulence. The flow is directed upward through a series of closely spaced inclined plates or tubes that provide multiple settling surfaces. As the water flows upward between these plates, suspended solids settle onto the plate surfaces due to gravity.

The inclined plates are positioned at an optimized angle—typically around 55 to 60 degrees—allowing the settled solids to slide downward into the sludge collection hopper at the bottom of the tank. This design reduces the settling distance required for particles and significantly improves sedimentation efficiency. Clarified water rises through the plate channels and exits via overflow weirs located at the top of the clarifier. The collected sludge is periodically removed through automated or manual sludge withdrawal systems.

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Avlon's Lamella Clarifiers are engineered with precision flow distribution, corrosion-resistant construction materials, optimized plate geometry, and compact modular designs to ensure maximum clarification performance. Our systems can handle high hydraulic loading rates while maintaining excellent effluent clarity. With extensive experience in industrial and municipal wastewater treatment projects, Avlon delivers reliable Lamella Clarifier solutions that integrate seamlessly with upstream processes such as DAF and Electrocoagulation and downstream filtration systems, ensuring full compliance with DENR wastewater discharge standards.

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