



DESIGN, SUPPLY, INSTALLATION AND COMMISSIONING OF WASTEWATER TREATMENT PLANT FOR PALM OIL INDUSTRY IN PERAK, MALAYSIA

This project involved the design, supply, installation and commissioning of equipment, systems and all related works including civil, structural, mechanical & electrical (M&E), and architectural components for a 350 m³/day EFB (Empty Fruit Bunch) juice wastewater treatment plant. The system was installed at a 12.5 MW biomass power plant, located in Perak, Malaysia, that utilises EFB as a primary fuel source for energy production

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Challenges

- High organic load in EFB juice wastewater
- Limited space for integrating treatment system
- Need to meet strict COD/BOD discharge norms
- Seamless integration with biomass plant operations

Solutions

- 350 m³/day system with biological + chemical treatment
- Civil, structural & tank construction
- Pumps, aeration, dosing, PLC & SCADA installed
- MBBR/activated sludge + filtration to meet COD/BOD norms
- System tested, optimized & handed over with operator training

Results

PARAMETER	INLET	OUTLET
Flow Rate m ³ /day	350	<350
BOD (mg/l)	<8000	<40
COD (mg/l)	<18000	<200
TSS (mg/l)	<100	<10

For detailed techno-commercial proposal or site visit coordination,

✉ **Drop us an e-mail at:**
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Impact

- Compliance: 350 m³/day effluent treated, meeting COD/BOD norms.
- Sustainability: Reduced environmental footprint, aligned with green goals.
- Efficiency: Seamless integration, cost savings and reliable operations.