



BIOPURE® Package Sewage Treatment Plant

Compact • Plug & Play • Factory Fabricated • Energy Efficient Wastewater Treatment

SYSTEM OVERVIEW & TECHNOLOGY

BIOPURE® Package Sewage Treatment Plants (STP) are factory-fabricated, plug-and-play biological wastewater treatment solutions engineered for quick deployment with minimal civil construction[cite: 1, 2]. Incorporating state-of-the-art biological treatment technologies—such as MBBR, SBR, and MBR—these systems efficiently convert raw domestic sewage into high-quality treated water suitable for non-potable reuse like irrigation, flushing, and cooling towers[cite: 1, 2].

✓ Factory tested and fully assembled in single/modular tank structures for rapid installation and small footprint requirements[cite: 1, 2].

25 - 250

KLD CAPACITY RANGE

< 10 mg/L

GUARANTEED OUTLET BOD

MS / SS / FRP

CORROSION RESISTANT MOC

BIOPURE® PACKAGE STP SYSTEM



Factory Prefabricated Modular Package Unit

★ KEY SYSTEM ADVANTAGES



Plug & Play

Pre-wired & factory tested.



Compact

Saves civil footprint space.



Low O&M

Minimal power consumption.



Odour Free

Enclosed, quiet operation.



Eco-Friendly Water Reuse Compliance

Designed to strictly fulfill environmental norms, treating sewage for landscape, flushing & industrial use[cite: 1, 2].

TECHNICAL SPECIFICATIONS

PARAMETER / COMPONENT	INDUSTRIAL STANDARD SPECIFICATION
Available Models & Capacity	25 KLD, 50 KLD, 100 KLD, 150 KLD, 200 KLD, 250 KLD
Core Biological Technology	MBBR (Moving Bed) / SBR (Batch Reactor) / MBR (Membrane Bioreactor)
Inlet Water Parameters	BOD: 250 – 350 mg/L COD: ~500 mg/L TSS: 200 – 300 mg/L
Guaranteed Outlet Quality	BOD < 10 mg/L TSS < 10 mg/L pH: 6.5 – 8.5
Material of Construction (MOC)	Mild Steel Epoxy Coated (MSEP) / Stainless Steel (SS304/SS316)
Aeration & Diffusers	Twin-Lobe Air Blowers with EPDM Fine Bubble Membranes
Piping & Valves	Heavy Duty UPVC / HDPE / Stainless Steel Interconnecting Lines
Automation & Controls	IP55 Powder Coated Panel / Optional PLC, SCADA & IoT Cloud System
Electrical Supply	415V AC, 3 Phase, 50 Hz Feed

PACKAGE STP ASSEMBLY & STRUCTURE



TARGET APPLICATION SECTORS

 Residential Apartments & Housing	 Commercial Hotels & Office Parks	 Institutional Hospitals & Schools	 Industrial Factories & Complexes
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