SEWAGE TREATMENT PLANT
A_2O ACTIVATED SLUDGE PROCESS - SAND FILTRATION
30 MLD, HMDA, HYDERABAD

Client	Hyderabad Metropolitan Development Authority, Hyderabad
Contractor	Triveni Engineering & Industries LTD.
Project Cost	INR 625 Million
Scheme	JICA
Status	Under Execution
Salient Features	• Anaerobic, Anoxic & Oxic Activated Sludge process for biological nutrient removal followed by Rapid Gravity Sand Filtration & Disinfection • Plant designed to achieve treated sewage parameters as under for discharge in to Hussain Sagar Lake: BOD : < 5 mg/L COD : < 70 mg/L TSS : < 5 mg/L Turbidity : < 5 mg/L TN : < 10 mg/L TP : < 0.5 mg/L • Major Units of STP comprising of ✓ Inlet Sewage Works (SPS) ✓ Inlet Unit (Stilling Chamber, Mechanical Fine Screen Chamber, Mech. Grit chamber, Flow Measuring Channel) ✓ Anaerobic, Anoxic and Oxic (A_2O) activated sludge process ✓ Coagulant addition ✓ Secondary Clarification / Sedimentation ✓ Rapid Sand Filtration & Disinfection ✓ Sludge Sump & Pump House ✓ Mechanical Sludge Dewatering • Plant Operation with PLC/SCADA System
Services Provided	• Preparation of Basic Engineering Design (Process & Hydraulic) • Detailed Engineering including Preparation of G.A. Drawings & Civil Design, Piping, Electro-mechanical & Instrumentation Works