



**SEWAGE TREATMENT PLANT**  
**A<sub>2</sub>O ACTIVATED SLUDGE PROCESS - SAND FILTRATION**  
**30 MLD, HMDA, HYDERABAD**



<b>Client</b>	Hyderabad Metropolitan Development Authority, Hyderabad
<b>Contractor</b>	Triveni Engineering & Industries LTD.
<b>Project Cost</b>	INR 625 Million
<b>Scheme</b>	JICA
<b>Status</b>	Under Execution
<b>Salient Features</b>	<ul style="list-style-type: none"> <li>• Anaerobic, Anoxic &amp; Oxidic Activated Sludge process for biological nutrient removal followed by Rapid Gravity Sand Filtration &amp; Disinfection</li> <li>• Plant designed to achieve treated sewage parameters as under for discharge in to Hussain Sagar Lake: <ul style="list-style-type: none"> <li>BOD : &lt; 5 mg/L</li> <li>COD : &lt; 70 mg/L</li> <li>TSS : &lt; 5 mg/L</li> <li>Turbidity : &lt; 5 mg/L</li> <li>TN : &lt; 10 mg/L</li> <li>TP : &lt; 0.5 mg/L</li> </ul> </li> <li>• Major Units of STP comprising of <ul style="list-style-type: none"> <li>✓ Inlet Sewage Works (SPS)</li> <li>✓ Inlet Unit (Stilling Chamber, Mechanical Fine Screen Chamber, Mech. Grit chamber, Flow Measuring Channel)</li> <li>✓ Anaerobic, Anoxic and Oxidic (A<sub>2</sub>O) activated sludge process</li> <li>✓ Coagulant addition</li> <li>✓ Secondary Clarification / Sedimentation</li> <li>✓ Rapid Sand Filtration &amp; Disinfection</li> <li>✓ Sludge Sump &amp; Pump House</li> <li>✓ Mechanical Sludge Dewatering</li> </ul> </li> <li>• Plant Operation with PLC/SCADA System</li> </ul>
<b>Services Provided</b>	<ul style="list-style-type: none"> <li>• Preparation of Basic Engineering Design (Process &amp; Hydraulic)</li> <li>• Detailed Engineering including Preparation of G.A. Drawings &amp; Civil Design, Piping, Electro-mechanical &amp; Instrumentation Works</li> </ul>