


**BGS INSTITUTE OF TECHNOLOGY**  
Department of Civil Engineering

<b>Title</b>	<b>MBBR Wastewater treatment plant</b>
<b>Photo</b>	
<b>Description</b>	<ul style="list-style-type: none"> <li>• An advanced technology of Mixed Bed Bio Reactor (MBBR) wastewater treatment plant of 750 KLD capacity has been implemented by spending 3 crores.</li> <li>• Zero discharge is maintaining with respect to the wastewater disposal by effectively reusing the treated effluents for secondary purpose</li> <li>• This treatment scheme is based on the quantity and quality of wastewater and CPHEEO Guidelines</li> </ul>
<b>Methodology</b>	<ul style="list-style-type: none"> <li>• The MBBR system consists of an activated sludge aeration system where the sludge is collected on recycled plastic carriers. These carriers have an internal large surface for optimal contact water, air and bacteria.</li> <li>• The MBBR process can be used for a variety of different applications to attain the desired results, depending on the quality of the wastewater and the discharge regulations.</li> </ul>
<b>Social Impact</b>	<p>Industrial applications</p> <ul style="list-style-type: none"> <li>• Capacity increase</li> <li>• Quality Improvement – BOD &amp; Nitrogen Removal</li> <li>• Fast recovery from Process Upsets</li> <li>• Limited Footprint</li> <li>• Future Expansion</li> <li>• Minimize Process Complexity and Operator Attention</li> </ul> <p>Benefits</p> <ul style="list-style-type: none"> <li>• Economical very attractive</li> <li>• Compact (saves space), Maintenance-friendly</li> <li>• Strong, High volume load, Simply to extend</li> <li>• Financial savings on discharge costs</li> </ul>
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