Supply & Installation of Containerized Packaged Wastewater Treatment Plants

Meeting
09/09/2014
Plants’ Location
## Waste Water Treatment Plant Installed

<table>
<thead>
<tr>
<th>Trickling Filter</th>
<th>MBR – Membrane BioReactor</th>
</tr>
</thead>
<tbody>
<tr>
<td>• This technology is based upon the process of tackling the hard particles of the sewage water inside the tunnels of the media that is placed inside the main stages of the trickling filter plant, i.e. Trickling filter tanks.</td>
<td>• This technology uses micro fibers i.e. membrane fibers, these fibers have holes measured by micro-meters between 0.2 to 0.5 micro-meter diameter.</td>
</tr>
</tbody>
</table>
# Waste Water Treatment Plants’ Details

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<th>Trickling Filter</th>
<th>Membrane BioReactor</th>
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<tr>
<td>• Phase: Testing on Tuesday 8/9/2014 &amp; Wednesday 9/9/2014</td>
<td>• Phase: Pipes Laying &amp; Mechanical equipment installation – 60%</td>
</tr>
<tr>
<td>• Expected Completion Date: 15/9/2014</td>
<td>• Expected Completion Date: 15/10/2014</td>
</tr>
<tr>
<td>• Capacity: 1800 cubic M</td>
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</tr>
</tbody>
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Waste Water Treatment Plants’ Details

**Trickling Filter**

- **Inlet Water Characteristics:**
  Q: 1780 cubic M  
  BOD$_5$: 1125mg/l  
  TSS: 1625 mg/l  
  pH: 6-9  
  NHS$_N$: 25mg/l

- **Outlet Water Characteristics:**
  Q: 1697 cubic M  
  BOD$_5$: 30mg/l  
  TSS: 50 mg/l  
  COD: 100mg/l  
  NHS$_N$: 16mg/l

**Membrane BioReactor**

- **Inlet Water Characteristics:**
  Q: 1780 cubic M  
  BOD$_5$: 1125mg/l  
  TSS: 1625 mg/l  
  pH: 6-9  
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  Q: 1697 cubic M  
  BOD$_5$: 30mg/l  
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Trickling Filter Plant
Trickling Filter Layout
MBR Plant
MBR Plant Layout