OPERATION & MAINTENANCE
WASTEWATER TREATMENT PLANT

Stara Zagora Wastewater Treatment Plant

Scope:
Operation services of described wastewater treatment plant for 24 months including supply of operational personnel and maintenance staff, disposal of screening and sludge services.

Plant Description:

Pre-Treatment
- Stormwater Treatment
- Screening
- Grit & Grease Removal
- Inlet Pumping Station

Biological Treatment
- Aeration Tanks with Blower - Diffuser Aeration
- Biological Nitrogen, Chemical Phosphorus Removal
- Secondary Sedimentation

Disinfection
- Gas Chlorination of the Effluent

Sludge Treatment
- Sludge Thickening with Belt Thickener
- Anaerobic Sludge Digestion
- Sludge Dewatering with Beltpress
- Gas holder and Gas Flare
- Biogas Cogeneration System (CHP)

Odor Control
- Odor Removal with Biofilters

Capacity

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Influent</th>
<th>Effluent</th>
</tr>
</thead>
<tbody>
<tr>
<td>COD (mg/L)</td>
<td>460</td>
<td>125</td>
</tr>
<tr>
<td>BOD₅ (mg/L)</td>
<td>230</td>
<td>25</td>
</tr>
<tr>
<td>TSS (mg/L)</td>
<td>265</td>
<td>35</td>
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<tr>
<td>TN (mg/L)</td>
<td>40</td>
<td>10</td>
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<tr>
<td>TP (mg/L)</td>
<td>9</td>
<td>1</td>
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</tbody>
</table>

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