Operation and Maintenance 
Wastewater Treatment Plant

Dimitrovgrad
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

Sludge Treatment
• Sludge Thickening with Belt Thickener
• Anaerobic Sludge Digestion
• Sludge Dewatering with Beltpress
• Gas holder and Gas Flare

Odor Control
• Odor Removal with Biofilters

Capacity

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Influent</th>
<th>Effluent</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOD₅ (mg/l)</td>
<td>230</td>
<td>25</td>
</tr>
<tr>
<td>COD (mg/l)</td>
<td>460</td>
<td>125</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>

Flow: 26,064 m³/day
Population Equivalent: 130,320 PE

Location
Dimitrovgrad / BULGARIA

Client
Ministry of Regional Development and Public Works
ISPA
Implementing Agency

Contractor
MASS - MASS BULGARIA OOD
Joint Venture

Completion Date
2012

Financial Resource
MASS ARTMA SİSTEMLERİ İNSAN. SAN. TİC. A.Ş.