**OPERATION AND MAINTENANCE**

**DOMESTIC WASTEWATER TREATMENT PLANTS**

Wastewater Treatment Plant for Gorna Oriahovitza, Liaskovetz and Dolna Oriahovitza

**Scope:**
Maintenance-repair and operation services of described wastewater treatment plant for 12 months.

**Plant Description:**

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

**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
- Biogas Cogeneration

**Location**
Gorna Oriahovitza / BULGARIA

**Client**
Ministry of Environment and Water of Republic of Bulgaria

**Contractor**
MASS - TEKSER
MAPA - GÜNAL
Consortium

**Contract Date**
2006

**Completion Date**
2007

**Financial Resource**
Ministry of Environment and Water of Republic of Bulgaria

**Scope**
Operation of the plant for one year.

**Parameter**

<table>
<thead>
<tr>
<th>Flow</th>
<th>Population Equivalent</th>
</tr>
</thead>
<tbody>
<tr>
<td>17,895 m³/day</td>
<td>90,000 PE</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>COD (mg/lt)</th>
<th>Influent</th>
<th>Effluent</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>125</td>
<td></td>
</tr>
</tbody>
</table>

| BOD₅ (mg/lt) | 286 | 15 |
| TSS (mg/lt)  | 310 | 20 |
| TN (mg/lt)   | 54  | 15 |
| TP (mg/lt)   | 11  | 1  |

MASS ARITMA SİSTEMLERİ İNŞAAT SANAYİ VE TİCARET A.Ş.
Gebze Organize Sanayi Bölgesi, 700. Sok., Gebze 41480 Kocaeli - Türkiye
Phone: +90 (262) 751 2210 pbx   Fax: +90 (262) 751 0730   e-mail: info@massaritma.com    www.massaritma.com