OPERATION AND MAINTENANCE
DOMESTIC WASTEWATER TREATMENT PLANTS

Maintenance-Repair and Operation of ASAT Hurma and Lara Wastewater Treatment Plants, Pumping Stations and Sewerage Network

Location
Antalya / TURKIYE

Client
General Directorate of Antalya Water and Wastewater Administration, ASAT

Contractor
MASS

Contract Date
2009

Completion Date
On going

Financial Resource

General Directorate of Antalya Water and Wastewater Administration, ASAT

Scope
Operation services.

Scope:
Operation services of approximately 1530 km sewerage systems in various diameters and specifications the eastern region and western region, deep sea discharge line of the western region, to serve an equivalent population of 1.4 million Hurma pre-treatment facility, to serve an equivalent population of 1.4 million Hurma Advanced Biological Wastewater Treatment the western area of plant and 7 sewage pumping stations in various capacities, 4 wastewater pumping stations commissioned in the year 2010 (TM4-TM7-TM11-TM13), deep sea discharge line Lara, Lara pre-treatment facilities to serve an equivalent population of 420,000, Lara Advanced Biological Wastewater Treatment plant (210.000 PE), for a period of 21 months.

Hurma Wastewater Treatment Plant Description:

Pre-Treatment
- Screening
- Gril & Grease Removal
- Primary Sedimentation

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

Sludge Treatment
- Sludge Thickening
- Anaerobic Sludge Digestion
- Sludge Dewatering with Beltpress
- Thermal Drying (for both Hurma and Lara WWTPs)
- Cogeneration Unit (for both Hurma and Lara WWTPs)

7 nos of West Region Wastewater Pumping Stations
Hurma Deep Sea Outfall Line
1000 km of collectors and network lines varying DN 200 to 2000

Capacity

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<th>Parameter</th>
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MASS ARITMA SISTEMLERİ INSAAT SANAYİ VE TİCARET A.Ş.
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Lara Wastewater Treatment Plant Description:

Pre-Treatment
• Screening
• Grit & Grease Removal

Biological Treatment
• For Stage Bardenpho Method with Blower - Diffuser Aeration
• Biological Nitrogen and Phosphorus Removal
• Secondary Sedimentation

Sludge Treatment
• Sludge Thickening
• Sludge Dewatering with Centrifuge
• Thermal Drying (for both Hurma and Lara WWTPs)
• Cogeneration Unit (for both Hurma and Lara WWTPs)

Lara Deep Sea Outfall Line
530 km of collectors and network lines varying DN 200 to 2000

Capacity

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MASS ARITMA SİSTEMLERİ INSAAT SANAYİ VE TİCARET A.S.
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