

# OPERATION AND MAINTENANCE

## WATER SUPPLY & POTABLE WATER TREATMENT PLANTS

### Çatalan Potable Water Supply System Maintenance and Operation Services

#### Location

Adana / TÜRKİYE

#### Client

Adana Water and  
Sewerage  
Administration  
General Directorate

#### Contractor

MASS

#### Contract Date

2003

#### Completion Date

On going

#### Financial Resource

Adana Water and  
Sewerage  
Administration  
General Directorate

Çatalan Potable Water Supply System  
Maintenance and Operation Services



#### Description and Scope:

Operation and maintenance services

- Operation and maintenance services of water intake structure with a capacity of 1.000.000 m<sup>3</sup>/day, transmission tunnel, water supply network and inlet structure
- Operation and maintenance services of 1<sup>st</sup> and 2<sup>nd</sup> phase of Çatalan Potable Water Treatment Plant with a capacity of 500.000m<sup>3</sup>/day
- Operation and maintenance services of water transmission system composing of 23.575 m supply network between Çatalan Treatment Plant and main water tanks, lake transition by approximately 2.200 m bridge and appr. 8.100 m of transmission tunnel
- Operation of discharge and ventouses existing on the main distribution network (appr. 70.276 m) supplying water transmission between main water tanks and distribution network
- Operation and maintenance services of 9 water tanks (Total volume = 57.000m<sup>3</sup>) of which 5 of them is in Seyhan and 4 of them is in Yüreğir districts
- Operation and maintenance services of 7 pump stations (4 of them is in Seyhan ve 3 of them is in Yüreğir)
- Personnel assistance supply for maintenance services of electrical and mechanical systems of potable water systems within the boundaries of ASKİ services
- Operation and maintenance services of SCADA and otomation systems of treatment plant, water lines and pump stations.

**MASS ARITMA SİSTEMLERİ İNŞAAT SAN. VE TİC. A.Ş.**

Altay Çeşme Mah. Çamlı Sokak Esas Ofis Park No : 21, 34843 Maltepe – İstanbul / TÜRKİYE

• Tel : +90 216 301 11 40 • Faks : +90 216 301 11 44 • <http://www.massaritma.com>

# OPERATION AND MAINTENANCE

## WATER SUPPLY & POTABLE WATER TREATMENT PLANTS

### Çatalan Potable Water Supply System Maintenance and Operation Services

#### Location

Adana / TÜRKİYE

#### Client

Adana Water and  
Sewerage  
Administration  
General Directorate

#### Contractor

MASS

#### Contract Date

2003

#### Completion Date

On going

#### Financial Resource

Adana Water and  
Sewerage  
Administration  
General Directorate

Çatalan Potable Water Supply System  
Maintenance and Operation Services



#### Plant Description:

##### Pre Treatment

- Water Tank
- Intake Structure

##### Chemical Treatment

- Coagulation and Flocculation
- Sedimentation

##### Physical Treatment

- Rapid Sand Filters

##### Disinfection

- Chlorination

##### Sludge Treatment

- Sludge Thickening
- Sludge Dewatering

#### Capacity

Flow	500,000 m <sup>3</sup> /day	
Parameter	Influent	
Turbidity (NTU)	20	
Total Hardness (Fr)	2	

#### MASS ARITMA SİSTEMLERİ İNŞAAT SAN. VE TİC. A.Ş.

Altay Çeşme Mah. Çamlı Sokak Esas Ofis Park No : 21, 34843 Maltepe – İstanbul / TÜRKİYE

• Tel : +90 216 301 11 40 • Faks : +90 216 301 11 44 • <http://www.massaritma.com>

# OPERATION AND MAINTENANCE

UTILITY & POTABLE WATER TREATMENT PLANTS

## Avluburun Potable Water Treatment Plant

Avluburun Potable Water Treatment Plant



### Location

Avluburun, Kocaeli /  
TÜRKİYE

### Client

Prime Ministry  
General Directorate  
of Rural Affairs

### Contractor

MASS

### Contract Date

2003

### Completion Date

2004

### Financial Resource

International  
Redcross Federation

### Scope

Operation of potable  
water treatment plant  
for one year.

### Scope:

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

### Plant Description:

#### Pre-Treatment

- Cascade Aeration

#### Chemical Treatment

- Coagulation and Flocculation
- Sedimentation

#### Physical Treatment

- Rapid Sand Filtration

#### Disinfection

- Chlorine Disinfection of the Effluent

#### Sludge Treatment

- Sludge Lagoon

### Capacity

Flow	15,000 m <sup>3</sup> /day	
Parameter	Influent	
Turbidity (NTU)	50	
Total Hardness (Fr)	60	

**MASS ARITMA SİSTEMLERİ İNŞAAT SAN. VE TİC. A.Ş.**

Altay Çeşme Mah. Çamlı Sokak Esas Ofis Park No : 21, 34843 Maltepe – İstanbul / TÜRKİYE

• Tel : +90 216 301 11 40 • Faks : +90 216 301 11 44 • <http://www.massaritma.com>

# REFERENCES



## POTABLE WTP OPERATION AND MAINTENANCE

Project Name	Process	Capacity	Client/Location/Year
ADANA CATALAN POTABLE W.T.P.	Physical Treatment, Aeration, Coagulation and Flocculation, Sedimentation, Rapid Sand Filtration, Disinfection	500,000 m <sup>3</sup> /day	ASKI General Directorate Adana/Turkey 2003-Ongoing
AVLUBURUN POTABLE W.T.P.	Aeration, Coagulation and Flocculation, Sedimentation, Rapid Sand Filtration, Neutralization, Disinfection	15,000 m <sup>3</sup> /day	Prime Ministry Gen. Dir. of Rural Affairs Kocaeli/Turkey 2003-2004
KEMER COUNTRY POTABLE W.T.P.	Aeration, Coagulation and Flocculation, Sedimentation, Rapid Sand Filtration, Neutralization, Disinfection	6,000 m <sup>3</sup> /day	Kocaeli/Turkey 1998-2000
NACHABINO POTABLE W.T.P.	Aeration, Coagulation and Flocculation, Sedimentation, Rapid Sand Filtration, Neutralization, Disinfection	6,000 m <sup>3</sup> /day	Nachabino/Russia 1995-1996
STRUGI KRASYNE POTABLE W.T.P.	Aeration, Physical Treatment, Coagulation and Flocculation, Sedimentation, Rapid Sand Filtration, Neutralization, Disinfection	6,000 m <sup>3</sup> /day	Strugi Krasnye/Russia 1994-1995



**MASS ARITMA SİSTEMLERİ İNŞAAT SAN. VE TİC. A.Ş.**

Altay Çeşme Mah. Çamlı Sokak Esas Ofis Park No : 21, 34843 Maltepe – İstanbul / TÜRKİYE

• Tel : +90 216 301 11 40 • Faks : +90 216 301 11 44 • <http://www.massaritma.com>