

UTILITY & POTABLE WATER TREATMENT PLANTS

Dasoguz Potable Water Treatment Plant



Dasoguz Potable Water Treatment Plant

Location

Dasoguz /
TURKMENISTAN

Client

Dasoguz Municipality

Contractor

Sehil İnşaat

Subcontractor

MASS

Completion Date

On going

Contract Value

8,200,000 USD

Financial Resource

Dasoguz Municipality

Scope

Turn-key construction
of the plant, excluding
civil works.

Plant Description:

Intake

- Intake Pumping Station
- Stabilization Lagoons
- 8 km Raw Water Pipework

Pre-Treatment

- Raw Water Pumping Station
- Cascade Aeration

Chemical Treatment

- Coagulation and Flocculation
- Sedimentation

Physical Treatment

- Rapid Sand Filtration

Water Storage and Potable Water Network

- Treated Water Storage Tanks
- Treated Water Pumping Station
- 25 km Potable Water Network

Disinfection

- Onsite Sodium Hypochlorite Generation
- Chlorine Disinfection of the Effluent

Sludge Treatment

- Sludge Dewatering with Belt Thickener and Beltpress

Capacity

Flow	150,000 m ³ /day
Parameter	
Treated water complies with GOST 2874-82.	

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

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

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UTILITY & POTABLE WATER TREATMENT PLANTS

Dokan Potable Water Treatment Plant

Dokan Potable Water Treatment Plant



Location

Dokan / IRAQ

Client

Dokan / IRAQ

Contractor

Nokan Group

Subcontractor

MASS

Completion Date

2009

Contract Value

6,600,000 USD

Financial Resource

Suleymaniyah
Municipality

Scope

Turn-key construction
of the plant, excluding
civil and electrical
works.

Plant Description:

Intake

- Intake Structure
- Intake Pumping Station

Chemical Treatment

- Coagulation and Flocculation
- Sedimentation

Physical Treatment

- Rapid Sand Filtration

Water Storage and Potable Water Network

- Treated Water Storage Tanks
- Intermediate Storage Tanks
- Treated Water Pumping Station

Disinfection

- Gas Chlorination

Capacity

Flow	190,000 m ³ /day
Parameter	
Treated water complies with WHO standarts	

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UTILITY & POTABLE WATER TREATMENT PLANTS

Bursa Organised Industrial Zone
Utility Water Treatment Plant



Bursa Organised Industrial Zone Utility Water Treatment Plant

Location

Bursa / TÜRKİYE

Client

Bursa Organised
Industrial Zone

Contractor

MASS

Completion Date

1992

Contract Value

3,809,000 USD

Financial Resource

Bursa Chamber of
Industry and
Commerce

Scope

Turn-key construction
of the plant, excluding
civil works. Operation
of the plant for 36
months.

Plant Description:

Pre-Treatment

- Screening

Aeration

- Aerobic Lagoons with Surface Aerators

Chemical Treatment

- Coagulation and Flocculation
- Chemical Sedimentation

Disinfection

- Chlorine Disinfection of the Effluent

Capacity

Flow	25,000 m ³ /day	
Population Equivalent	125,000 PE	
Parameter	Influent	Effluent
BOD ₅ (mg/lit)	550	-
COD (mg/lit)	1,040	25

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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

Completion Date

2003

Contract Value

659,000 USD

Financial Resource

International
Redcross Federation

Scope

Turn-key construction
of the plant, excluding
civil works.

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 ³ /day	
Parameter	Influent	
Turbidity (NTU)	50	
Total Hardness (Fr)	60	

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UTILITY & POTABLE WATER TREATMENT PLANTS

Tenghiz Chevroil Construction Camp
Potable Water Treatment Plant

Location

Tenghiz /
KHAZAKSTAN

Client

Ayson Sondaj

Contractor

MASS

Completion Date

2003

Contract Value

398,000 EUR

Financial Resource

Ayson Sondaj

Scope

Turn-key construction
of the plant, excluding
civil works.

Tenghiz Chevroil Construction Camp
Water Treatment Plant



Plant Description:

Chemical Treatment

- Coagulation and Flocculation
- Sedimentation

Physical Treatment

- Rapid Sand Filtration
- Final Neutralization

Disinfection

- Chlorine Disinfection of the Effluent

Sludge Treatment

- Sludge Dewatering

Capacity

Flow	2,700 m ³ /day
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UTILITY & POTABLE WATER TREATMENT PLANTS

Kemer Country Potable Water Treatment Plant

Kemer Country Water Treatment Plant

Location

Kemberburgaz,
İstanbul / TÜRKİYE

Client

Kemer Yapı

Contractor

MASS

Completion Date

1999

Contract Value

189,000 USD

Financial Resource

Kemer Yapı

Scope

Turn-key construction
of the plant, excluding
civil works.



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 Dewatering

Capacity

Flow	6,000 m ³ /day
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UTILITY & POTABLE WATER TREATMENT PLANTS

Nachabino Military Houses Potable Water Treatment Plant

Nachabino Military Houses Water Treatment Plant

Location

Nachabino / RUSSIA

Client

Russia Ministry of Defence

Contractor

MASS

Completion Date

1996

Contract Value

877,500 USD

Financial Resource

Russia Ministry of Defence

Scope

Turn-key construction of the plant, excluding civil works.



Plant Description:

Pre-Treatment

- Cascade Aeration
- Screening

Chemical Treatment

- Coagulation and Flocculation
- Sedimentation

Physical Treatment

- Rapid Sand Filtration
- Final Neutralization

Disinfection

- Chlorine Disinfection of the Effluent

Sludge Treatment

- Sludge Dewatering

Capacity

Flow	6,000 m ³ /day	
Parameter	Influent	Effluent
Total Hardness (mval)	7	Acc. to SNIP
TSS (mg/l)	350	Acc. to SNIP

REFERENCES



POTABLE AND UTILITY WATER TREATMENT PLANTS

Project Name	Process	Capacity	Client/Location/Year
DASOGUZ POTABLE W.T.P.	Physical Treatment, Aeration, Coagulation and Flocculation, Sedimentation, Rapid Sand Filtration, Disinfection	150,000 m ³ /day	Dasoguz Municipality Dasoguz/Turkmenistan Ongoing
DOKAN POTABLE W.T.P.	Coagulation and Flocculation, Sedimentation, Rapid Sand Filtration, Disinfection	190,000 m ³ /day	Dokan/Iraq 2009
MERGOSUR POTABLE W.T.P.	Coagulation and Flocculation, Sedimentation, Rapid Sand Filtration, Neutralization, Disinfection	40,000 m ³ /day	Mergosur/Iraq 2007
BURSA ORGANIZED INDUSTRIAL ZONE UTILITY W.T.P.	Physical Treatment, Aerobic Lagoon, Coagulation and Flocculation, Sedimentation, Disinfection	25,000 m ³ /day	Bursa Org. Ind. Zone Bursa/Turkey 1990
AVLUBURUN POTABLE W.T.P.	Aeration, Coagulation and Flocculation, Sedimentation, Rapid Sand Filtration, Neutralization, Disinfection	15,000 m ³ /day	Prime Ministry Gen. Dir. Of Rural Affairs Kocaeli/Turkey 2003
TENGHIZ CHEVROIL CONSTRUCTION CAMP POTABLE W.T.P.	Coagulation and Flocculation, Sedimentation, Filtration, Neutralization, Disinfection	2,700 m ³ /day	Ayson Sondaj Inc. Tenghiz/Khazakstan 2003
KEMER COUNTRY POTABLE W.T.P.	Aeration, Coagulation and Flocculation, Sedimentation, Rapid Sand Filtration, Neutralization, Disinfection	6,000 m ³ /day	Kemer Yapı ve Tur. Inc. Kocaeli/Turkey 1998
NACHABINO POTABLE W.T.P.	Aeration, Coagulation and Flocculation, Sedimentation, Rapid Sand Filtration, Neutralization, Disinfection	6,000 m ³ /day	Ministry of Defense Nachabino/Russia 1995
MOROZOVSK POTABLE W.T.P.	Aeration, Physical Treatment, Coagulation and Flocculation, Sedimentation, Rapid Sand Filtration, Neutralization, Disinfection	6,000 m ³ /day	Morozovsk/Russia 1995



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