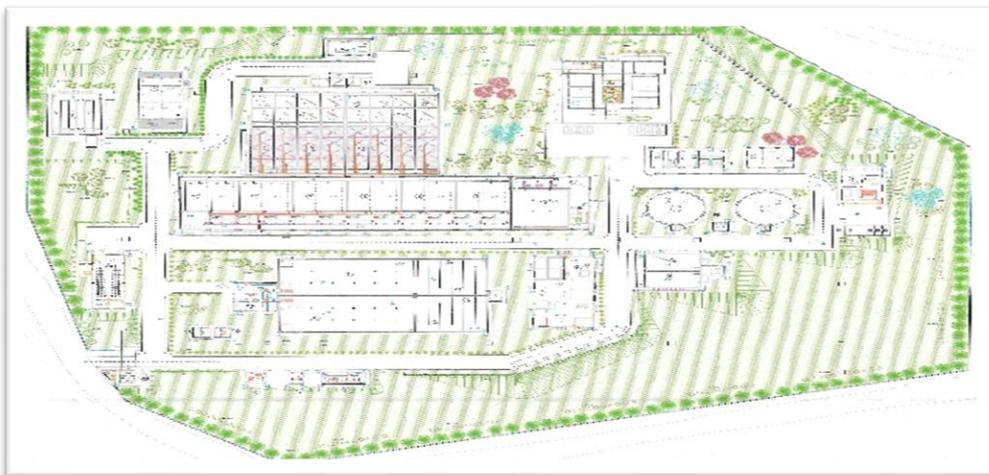




# ENVIRONMENTAL TECHNOLOGIES





# ART ENVIRONMENTAL TECHNOLOGIES

**ART** is a leading independent international consulting firm based in Türkiye since 1992, providing a wide range of lined services to public and private clients, major financial institutions.

We have an extensive and well-established capability in the planning, design and supervision of major development projects in Türkiye and abroad, particularly in Azerbaijan, Uzbekistan and Pakistan.

We have been serving for more than 30 years with our experienced engineers focused on offering different perspectives to solution partners beyond engineering services.

We provide our customers with integrated design and management solutions to meet the requirements of each individual task, regardless of size, complexity and location.

We put sustainability and quality at the centre of everything, together with our work team that prepares, develops and manages our new projects, our commercial activities and our work.

We will continue to realize successful projects with our offices and partners in Türkiye and abroad, and in the coming period we will ensure our enthusiasm for creating liveable urban spaces with a holistic approach that considers nature and people together.

We are a member of ATCEA (Association of Turkish Consulting Engineers and Architects), FIDIC (International Federation of Consulting Engineers) and EFCA (European Federation of Engineering Consultancy Associations) and holding ISO 9001-2015 and ISO 14001-2015 quality management systems.

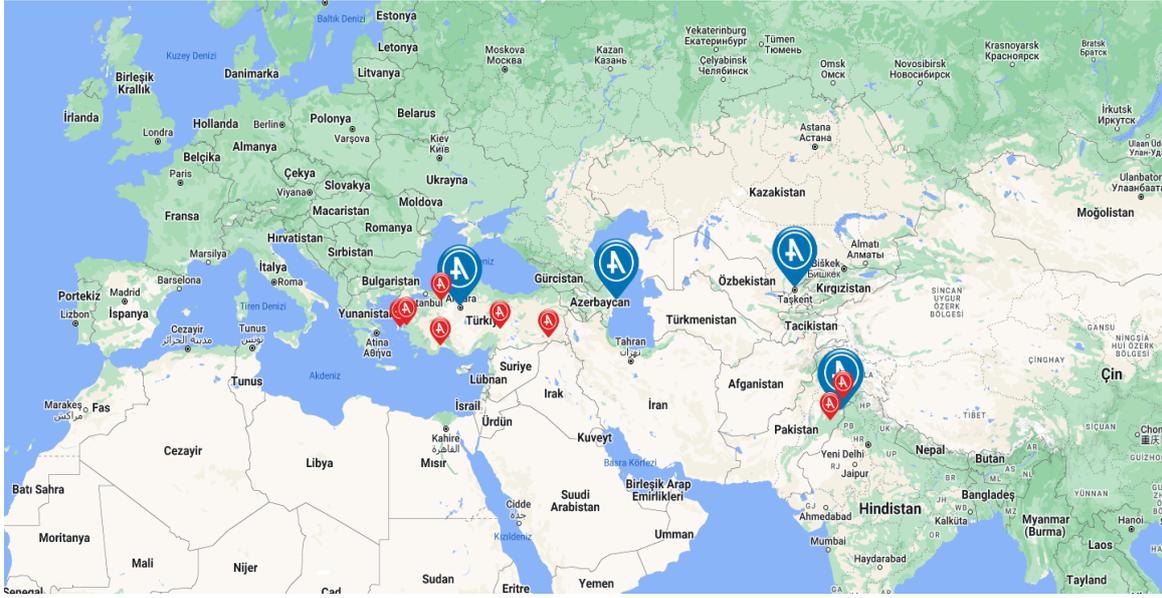
We are implementing our planning, detailed design and project management activities by strictly adhering the principles of sustainability in order to prevent water scarcity caused by global problems along with climate change.

We are proud to have over 30 years of service as a brand for design and implementation of complex projects.





# OFFICES



## Main Office

### Address

Çukurambar Mah. Muhsin Yazıcıoğlu Cad.  
1480. Sok. 2A Blok Kat.9 No.33  
06510 Çankaya, Ankara

### Phone

+90 (312) 229 78 54

### Fax

+90 (312) 229 96 78

### Email

[infoart@artltd.com.tr](mailto:infoart@artltd.com.tr)

## Azerbaijan Branch

### Address

Azadlıq Street No.192  
Baku, AZERBAIJAN

### Phone

+99 (450) 776 56 42

## Uzbekistan Branch

### Address

Abdulla Qahhor 4,1  
Taşkent, ÖZBEKİSTAN

## Pakistan Branch

### Address

C-3, Jhelum Block, Green Forts-II  
Lahore, PAKISTAN

### Phone

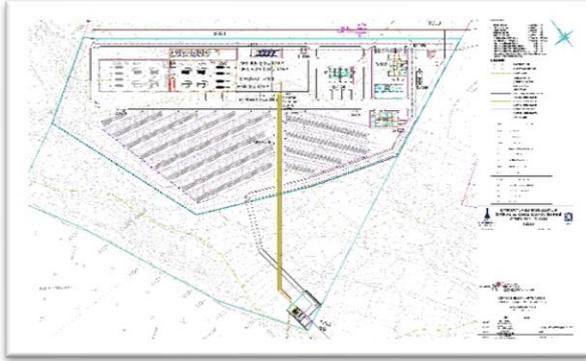
+ 92 (42) 371 92 547

## Consultancy Offices

Suluova Consultancy Office/ AMASYA  
Konya Consultancy Office/ KONYA  
Muş Consultancy Office/ MUŞ



# FIELDS OF EXPERTISE



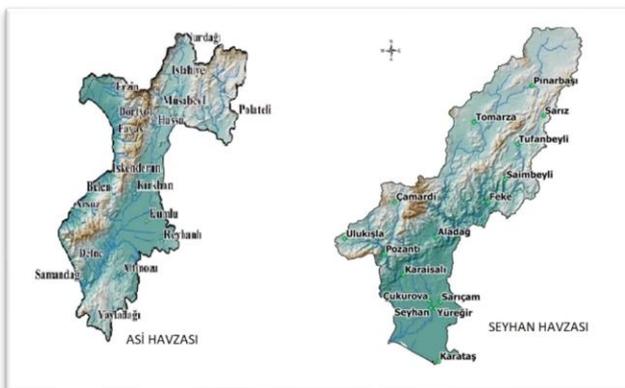
**PLANNING**



**INFRASTRUCTURE DESIGN**

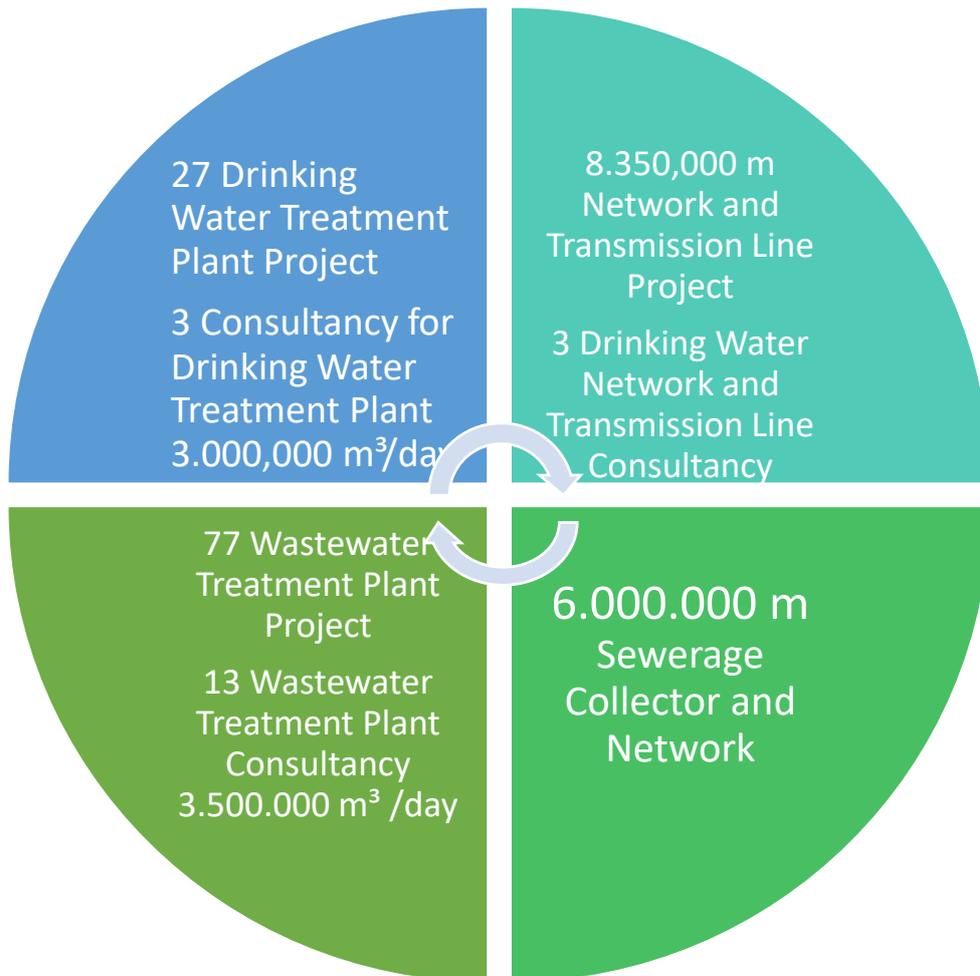


**CONTRACT  
MANAGEMENT**



**FLOOD PROTECTION**

# REALISED AND ONGOING PROJECT & CONSULTANCY ACTIVITIES



# ART ENVIRONMENTAL TECHNOLOGIES

## MAIN OFFICE TEAM





## OUR MANAGEMENT TEAM



**Tamer Tuncer** founded ART Environmental Technologies in 1992. He is the General Manager of our company and completed his bachelor's and master's degree at M.E.T.U Environmental Engineering Department.

With 37 years of experience, he has been involved in the supervision, master plan studies, feasibility studies, detailed design and design review of numerous water supply, wastewater collection and treatment projects. He has a good knowledge of the environmental and legal aspects as well as technical aspects of project management and organizational structure. His assignments have included consultancy services for international projects funded by IFIs. He has extensive experience in managing teams on infrastructure projects, with a particular focus on design review, detailed design and construction supervision.





**B. Alev Dumlupinar** graduated from M.E.T.U, Department of Environmental Engineering in 1991. She has 32 years of experience in the management of internationally and locally funded projects.

She is experienced in coordination of various disciplines in control, procurement, design and construction of wastewater treatment plant, sewerage project components, related infrastructures, along with extensive management experience in Master Plan, Feasibility, Tender Document preparation, integrated urban water management projects and integrated solid waste management projects. She has also experience in tender evaluation of international and local funded projects (EU, WB, AIIB, IBRD, AfD, etc.). She has worked in Turkey, Pakistan and Uzbekistan.

**Senem Işık** is the Business Development Manager of our company and holds bachelor's degree in Civil Engineering. She graduated from M.E.T.U in 2003 and till that time she has been exploring different sectors in the field of project management. She has been involved in many national and international multi-scale construction projects from tender to taking over. She is also involved in the coordination of IFI funded consultancy assignments.



**Burak Tuncer** received his B.S. in Mechanical Engineering from the University of Rochester in 2017 and M.S. in Earth and Environmental Engineering from Columbia University in 2018. For 5 years, he has been working on internationally and locally financed water supply and wastewater treatment plant projects.



**Rukiye Büyükdemirci** graduated from Kırıkkale University, Department of Civil Engineering in June 2006. She has 17 years of Civil Engineering experience and specializes in Hydraulic Structures, Transportation Design, Design of Hydraulic Structures for Flood and Flood Damage Prevention, Water Resources



Management Planning and Design. He has been working as a Project Manager in domestic and international internationally and locally funded Water Resources Management, Planning and Design projects.



**Enis Tokat**, has a PhD degree in Environmental Engineering and has 25 years of experience in construction supervision, preparation of feasibility studies, cost estimates and tender documents, and design review. He has extensive experience in evaluating technical capabilities and recommending technical solutions, water supply and distribution, supervising the construction of wastewater collection and treatment works, preparation of technical specifications of equipment, review and finalization of RFB / Tender Documents, construction and materials for tenders. Electromechanical and construction rehabilitation works, detailed design of Wastewater Treatment Facilities, analysis of deep-sea discharge alternatives, electrical and mechanical installation design, structural design works and calculations, preparation of the final design of water supply and sewage systems, infrastructure projects, preparation of monthly and quarterly progress reports, He supervised pre-commissioning and commissioning reports, and stormwater network construction. He has work experience in Türkiye, Pakistan and Azerbaijan.

### **Sümer Okan**



In 2011, he graduated from Anadolu University, Department of Environmental Engineering. He has 12 years of experience in internationally and locally funded projects such as sewerage and drinking water networks, transmission and pumping lines, wastewater and drinking water treatment plants, pumping stations, clean water tanks, deep sea discharges, feasibility reports.

## OUR PROJECT MANAGERS

**Arda Varış** completed his bachelor's and master's degrees at M.E.T.U Civil Engineering Department and worked as an Assistant Engineer in 1976-77 and completed his master's degree in 1981. Simultaneously, he completed his master's degree in Business Administration at Ankara Engineering and Architecture High School in 1977. He has been working as Project Manager at ART since 2011.



With more than 47 years of experience, he has extensive experience in all phases of construction projects, especially construction of water supply networks, sewage and storm water collectors, and water and wastewater treatment plants as consultant. He has managed many work contracts ruled under FIDIC and/or PRAG for the projects, which were financed by IFI's including EU, ADB and KfW.



**Hakan Yılmaz** holds Bsc and Msc from Civil Engineering and has 33 years of Professional experience mainly in Turkey, as project coordinator, project manager/team leader, deputy PM/TL, designer, procurement and contracting expert as well as construction supervisor. He has Extensive experience with technical assistance projects for the provision of engineering services (preparation of master plans and feasibility studies, conceptual and detailed designs, tender preparations and evaluations as well as supervision of construction works and system operations) as well as capacity building services. He has been involved in several water/wastewater infrastructure projects governed by FIDIC Conditions of Contract (Red and Yellow Book) as project Manager. He is experienced in the field of contract and claim management for different types of contract conditions. He is also skilled in project management and coordination, leading of project teams and personnel responsibility. He completed many projects and worked with different international financing institutions (WB, KfW, EIB, UNDP, EU), both at home and abroad.

**Özgür Pınarbaşı** holds bachelor's degree in Civil Engineering and graduated from Middle East Technical University(METU)in 2002. He has 16 years of experience in construction sector acting at different positions such as planning and cost engineer, quality control chief, construction chief and resident engineer. He has strong professional working experience in infrastructure sector. He is responsible for managing and supervising the contracts according to service contract and its Terms of Reference and the Employer's requirements by supervising a team, managing the project in accordance with the budget and schedule, claim management, reviewing, commenting and approving designs, technical specifications, interim and final payments working as Project Manager.



**Bülent Metin** graduated from Çukurova University, Department of Civil Engineering in 1998. He has 37 years of work experience as an engineer in potable water and wastewater treatment plants, water transmission lines and water network, sewage collector and network lines, including water tunnel projects. He has vast experienced in ensuring the compliance of the work with the budget

and work program, follow-up of the bills of quantities, supervision of the compliance of the materials to be used with the specifications and design review. He is also experience in setting the standards and procedures for QA/QC to be adopted in the performance of the works, setting the project management plan and monitoring the overall progress, attending the WWTP operation training and monitoring the operation of WWTP as well as preparing variation orders and estimating and monitoring project and construction costs.

# ORGANIZATIONS WE WORK WITH



REPUBLIC OF TÜRKİYE  
MINISTRY OF ENVIRONMENT,  
URBANIZATION AND CLIMATE CHANGE



İSTANBUL  
SU VE KANALİZASYON  
İDARESİ



AGENCE FRANÇAISE  
DE DÉVELOPPEMENT



Bank aus Verantwortung



European Bank  
for Reconstruction and Development



THE WORLD BANK



İLBANK



O'ZSUVTA'MINOT  
AKSIYADORLIK JAMIYATI



ANKARA SU ve KANALİZASYON  
İDARESİ GENEL MÜDÜRLÜĞÜ



BUSKİ



ASIAN DEVELOPMENT BANK



KTTC  
TARIM VE DOĞAL KAYNAKLAR  
BAKANLIĞI



## CORPORATE TRAINING PROGRAMS

Within the scope of project and consultancy works, our company implements programs targeting development in various fields such as water and wastewater resource management, flood control, infrastructure operations, resource recovery, capacity building in Turkey and abroad with expert engineers. Interactive visits to the administrations and facilities implementing the most innovative technologies from Turkey and Europe create an environment where participants can submit their questions one-to-one and expand their professional networks.

### ANTALYA TECHNICAL TRIP 1

This technical trip was organized within the scope of the Elbistan Wastewater Project Technical Assistance and Supervision Work, by ART Environmental Technologies, between June 28 2021, and July 2 2021, to ensure the effective and efficient implementation of the project. The participants consist of a 7-member team designated by the Kahramanmaraş Municipality. This team traveled to Antalya for a domestic technical study trip. The participants were guided by engineers from ART Environmental Technologies, who are involved in the Elbistan Wastewater Project. The participants gained valuable insights into topics such as water and wastewater facility management, water and sewer infrastructure operation, SCADA systems, and GIS system installations.



## ANTALYA TECHNICAL TRIP 2



Between April 4 and April 10, 2021, a study tour was organized for the personnel of the Şirnak Water and Sewerage Directorate within the scope of the Şirnak Wastewater Project. ASAT (Antalya Water and Sewerage Administration) was chosen as an ideal destination due to its comprehensive model for water and wastewater

management. During the visit, participants gained valuable insights into the management and operation of water and sewer infrastructure and had the opportunity to observe the practical applications of these systems in Antalya.



## ITALY TECHNICAL TRIP



The international study tour organized under the Elbistan Wastewater Project Technical Assistance and Supervision was conducted by ART Environmental Technologies. This educational trip took place from October 17 to 23 in Rome and Naples, Italy, and included nine participants from the Kahramanmaraş Municipality. The participants were

accompanied by Burak Tuncer, a Mechanical Engineer from ART Environmental Technologies. In addition, employees from ACEA, AKERUS, and GORI companies also served as guides during the trip. The purpose of the trip was to teach participants about the operation and maintenance processes of wastewater treatment plants in Europe. Participants visited large wastewater treatment facilities in the Rome and Naples regions, where they learned about wastewater treatment and infrastructure management. The training covered topics such as



the operation and maintenance of wastewater treatment plants, wastewater network and pumping stations, wastewater transmission infrastructure, and the use of SCADA systems. During this trip, participants had the opportunity to observe wastewater treatment processes on-site and learn best practices from Europe.

### BUDAPEST TECHNICAL TRIP



Within the scope of the Şirnak Wastewater Treatment Plant Project, a study tour was organized by ART Environmental Technologies in Budapest from April 4 to 10, 2021. This five-day study tour included a comprehensive training program covering topics such as wastewater treatment plant operation, sewer network maintenance, and SCADA systems. At the end of the trip, an evaluation report was prepared,

summarizing the visited sites and gained experiences, and a best practice guide was created for those who could not attend. During the tour, participants visited facilities such as the Budapest Waterworks Wastewater Treatment Plant, the SCADA center, and the Hungarian Water Aid Unit.



### FRANCE STUDY TOUR



On March 11, 2024, Burak Tuncer, an engineer from the Izmir Water and Sewerage Administration (İZSU) Project Department, participated in a technical study trip to Marseille and

Nice, France, within the scope of the İzmir Karabağlar Wastewater Treatment Plant Project. The focus of the trip was on urban applications of the visited

facilities, and discussions took place regarding the challenges encountered in operational processes and potential solutions. The aim of this trip was to ensure that the Karabağlar Wastewater Treatment Plant is designed and implemented in a way that can provide uninterrupted service to İzmir for many years to come.

### AMSTERDAM TECHNICAL TRIP



Between December 2-6, 2024, meetings were held with Royal HaskoningDHV (RHDV), a Netherlands-based project management and multi-disciplinary consultancy company. Tamer Tuncer and Burak Tuncer represented ART Environment during the visit. ART Çevre discussed

developments in Turkey and neighboring countries, business opportunities and possible partnerships at the RHDV Netherlands head office. RHDV made presentations on the treatment technologies it has developed and shared its experiences. The applicability and potential usage areas of these technologies in Turkey were discussed. In the following days, technical examinations were carried out in the facilities where these new technologies are applied. As a result of mutual discussions, it is planned to continue working in the fields of sustainability and treatment.



# REREFERENCES

## PROJECT AND CONTRACT MANAGEMENT



### Technical Assistance and Construction Supervision for Suluova Wastewater and Stormwater Project

**Employer:** Ministry of Environment, Urbanization and Climate Change (EU Funded)

**Date:** November 2023 - Ongoing

**Location:** Turkey, Amasya, Suluova



**Details:** Consultancy services and technical assistance in administrative, financial and technical fields for Suluova wastewater treatment plant with capacity  $Q=10,098 \text{ m}^3 / \text{day}$ , construction supervision of stormwater collectors ( $L=26 \text{ km}$ ), implementation of loss and leakage program, under the management of European Union - Ministry of Environment, Urbanization and Climate Change



## Consultancy Services for Design Review, Preparation of Tender Documents, Support to Tender Process and Supervision of Construction Works for Muş Wastewater Treatment Plant Construction Works

**Employer:** Muş Municipality (JICA ODA Loan)

**Date:** March 2023 – Ongoing

**Location:** Turkey, Muş



**Details:** 24.000 m<sup>3</sup> /day capacity wastewater treatment plant design review, preparation of tender documents, providing technical support to the contracting authority during the tender phase, construction supervision

## Consultancy Service Procurement for KOSKI Construction Works and Assembled Goods Procurement Works

**Employer:** KOSKI General Directorate (JICA ODA Loan)

**Date:** October 2023 – Ongoing

**Location:** Turkey, Konya

**Details:** Project consists of below

components covering design review, preparation of tender documents, providing technical support to the contracting authority during the tender phase, construction supervision:

- Sancak Neighbourhood-Büsan Industry Main Collector Line Sewerage Construction Work
- Water Loss and Leakage Investigation Emergency Action Plan Project
  - Central City Water Network Improvement (Drinking Water Network Improvement and Well Collection Line) Construction Work
  - DMA/DMZ Studies for Water Loss Detection
  - Meter Replacement
  - SCADA
- Water Safety Management System

## Technical Assistance and Supervision for Şırnak Wastewater Treatment Plant Project



**Employer:** Ministry of Environment, Urbanization and Climate Change (EU Funded)

**Date** November 2019 - July 2023

**Location:** Turkey, Şırnak

**Details:** Consultancy services and technical assistance, implementation of the loss and leakage program and construction supervision of the collector line (L = 1.6 km) for the Şırnak wastewater treatment plant with a capacity of

Q=12,000 m<sup>3</sup>/day under the management of the European Union - Ministry of Environment, Urbanization and Climate Change.



**Water Supply and Sanitation Investment Program (WSSIP) – Project 1**  
**Consultancy for Construction Supervision, Tendering and Institutional Capacity Building, Loan**  
**No 2571-AZE, Loan No 3079-AZE**



**Employer:** Azersu (ADB Funded)

**Date:** March 2011 – May 2018

**Location:** Azerbaijan, 5 cities

**Details:** Project consists of three components:

Component A: Water Supply and Sanitation Infrastructure Development in 5 cities,

Component B: Institutional Effectiveness (Management Improvement and Capacity Building)

Component C: Program Management Facility (PMF)

The works include: water intake structures, water transmission lines with inspection chambers, water reservoirs, pumping stations, water distribution and sewerage networks, house connections, sewerage collector, creek and culvert crossings, administration buildings, workshops, reinstatement of roads and wastewater treatment plants including sludge treatment processes. Total construction cost of the works is 435,300,000. - USD.

	Aghdas	Goycay	Beylegan	Agcabedi	Balakan
<b>Population (2035)</b>	46 733	49 013	24 036	45 300 .	50 482
<b>Area</b>	1564 ha	1138 ha	942 ha	2168 ha	6384 ha
<b>Water intake facilities</b>	Infiltration gallery	4 artesian wells	5 artesian wells	7 artesian wells	Infiltration gallery
<b>Transmission mains</b>	L=20 km	L= 4.6 km	L= 13.6 km	L= 9.8 km	L=15 km
<b>Water reservoirs</b>	2x10 000 m <sup>3</sup>	2x2 000 m <sup>3</sup>	2x4 000 m <sup>3</sup>	2x5 000 m <sup>3</sup>	2x5 000 m <sup>3</sup>
<b>Water network</b>	L=187 km	L=123 km	L=95 km	L=194 km	L=210 km
<b>Sewerage network</b>	L=168 km	L=115 km	L=89 km	L=206 km	L=205 km
<b>Wastewater Treatment Plants</b>	25.000 m <sup>3</sup> /day	25.000 m <sup>3</sup> /day	20.000 m <sup>3</sup> /day	20.000 m <sup>3</sup> /day	30.000 m <sup>3</sup> /day



## Technical Assistance and Supervision for Elbistan Wastewater Project

**Employer:** Ministry of Environment, Urbanization and Climate Change (EU Funded)

**Date:** November 2019 – October 2022

**Location:** Turkey, Kahramanmaraş, Elbistan

**Details:** Consultancy services and technical assistance for Elbistan

wastewater treatment plant with a capacity of  $Q=22,500 \text{ m}^3 / \text{day}$ , implementation of loss and leakage program, construction supervision of wastewater collectors ( $L=33 \text{ km}$ ) under the management of European Union - Ministry of Environment, Urbanization and Climate Change.



## Faisalabad City Water Supply Expansion Phase 2 - Consultancy Services for Preparation of Preliminary Designs, Tender Documents, Safeguards (ESIA and RAP) Reports and Construction Supervision

**Employer:** WASA Faisalabad (AFD Funded)

**Date:** February 2022 - Ongoing



**Location:** Pakistan, Faisalabad

**Details:** The overall objective of the Project is to improve the living conditions of the inhabitants of Faisalabad by developing the public drinking water service. The Project aims to extend the services and improve the

quality (continuity and pressure) of the water service, to preserve the water resource, and to reinforce the viability of financial position of WASA-F. Drinking water production capacity shall be increased by 135 000 m<sup>3</sup>/d through:

- The extension of the existing surface Jhal WTP capacity by 15 MGD by addition of 5 MGD;
- The construction of a new 25 MGD WTP near Jaranwala Road at lower Gogera Canal Branch and the arterial water main



to the existing network.

- Establishment of zones (Regional Metering Zones and District Metering Areas) through the preparation of the Non-Revenue Water reduction program, piloting of the SCADA system, leak detection and 24/7 service concept.

**Phase 1** of the assignment covers, reviewing existing studies, preliminary design and documentation for DBO work tender, preparation of tender documents, preparation of the ESIA, RAP and other associated reports

(e.g. ESMP), assistance in the tendering process and model & design specifications for hydraulic modelling in pilot DMZ, DMA creation, hydraulic analysis and work specifications for network upgrading in the NRW pilot project, to be incorporated in the DBO bidding documents.

**Phase 2** covers construction supervision including coordination of works, monitoring of progress, quality control, and supporting PIU/F-WASA in contract management and reporting. The consultant shall act as the Engineer (in accordance with FIDIC Gold Book) on behalf of the Client in routine dealings with the DBO contractor.





## Detailed Design for the Rehabilitation of Water Supply and Sewerage Systems in Oguz, Tovuz, Zagatala and Agstafa Rayons - Water and Sewerage Project - II

**Employer:** Azerbaijan Reconstruction Agency  
Rehabilitation of Areas - ARRA

**Date:** August 2010 - September 2012

**Location** Azerbaijan, 4 cities

**Details:** The project includes detailed design of the infrastructure system and all related details for

four rayons, including water intake structures, water transmission lines, water reservoirs, water distribution networks, sewerage systems and collectors; hydraulic modelling, profiles, flushing and air release valves, house connections, on-site surveying, topographic and geological survey works, quantity surveying, manholes, culvert crossing, assistance for tender documents.

## Construction Supervision for Milas Water Supply Project

**Employer:** State Hydraulic Works (DSİ)

**Date:** November 2017 – Taking over completed on 30 May 2022 for main transmission line and 8 October 2022 for WTP

**Location:** Turkey, Muğla, Milas

**Details:** Construction supervision of the infrastructure system of Milas province, including water intake structures, water transmission lines, water reservoirs and water treatment plant. The target year is 2045 with a total population of 100,000 people.



- 19,600 m water transmission main line Ø550 - Ø200
- N.2 water tanks, 2,000 m<sup>3</sup> and 1,000 m<sup>3</sup> capacity
- N.1 pump station, 81 lt/sec capacity
- Mechanical and electrical installation works with SCADA systems
- Water treatment plant with a capacity of 21,000 m<sup>3</sup>/day
- All related construction works

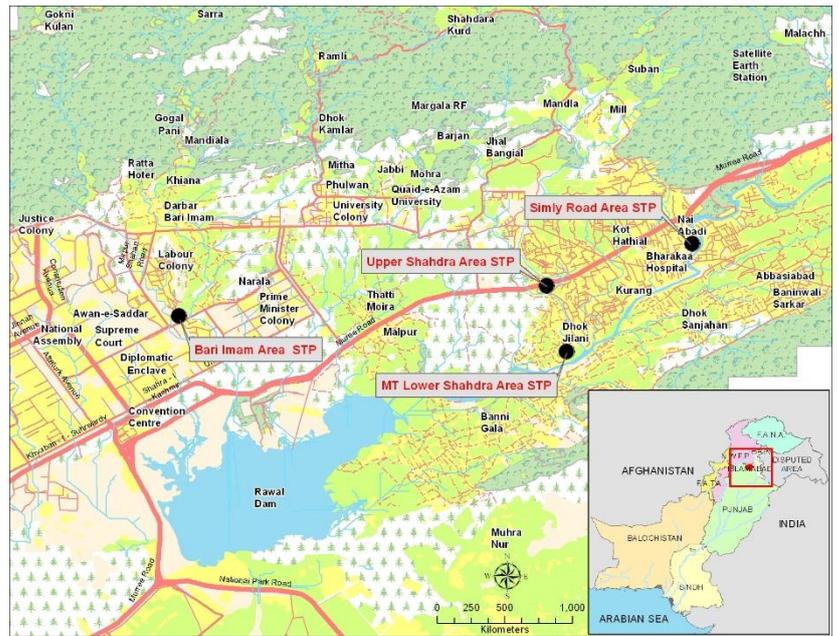
**Preparation/Finalization of RFP Document including Bid Evaluation in EPC Mode and to Oversee the Supervision of Construction of Three Sewerage Treatment Plants Falling Into Korang River (Rawal Lake)**

**Employer:** Capital Development Authority (CDA)

**Date:** October 2022 - Ongoing

**Location:** Pakistan, Islamabad

**Details:** Preparation of Request for Proposal Documents, Tender evaluation services and Construction supervision for EPC construction of 3 WWTPs (Bari Imam STP 3.65 MGD, Simly Road STP 1.97 MGD & Madina Town Dhok Jilani STP 4.00 MGD i/c Trunk Sewers) with a total treatment capacity of 9.62 MGD in order to prevent the flow of polluted and contaminated water into Rawal Lake and to address the problem of water pollution through the construction of Sewerage Treatment Plants.



The scope covers to oversee, assist and facilitate in the implementation of the Sewerage Treatment Plants along the Korang River, Rawal Lake. Works of EPC-Contractor shall be overseen and necessary administrative support for efficient and professional management of the bidding process shall be provided during the implementation of project.

**(Credit No: 2119 AZE) Design, Construction Supervision and Administrative Support for WSS Systems in Agdash, Goychay and Nakchivan - Urban Water Supply and Sanitation Project**

**Employer:** AZERSU

**Date:** February 2008 - June 2010

**Location** Azerbaijan, 3 cities

**Details:** Project consists of 3 compounds which are:  
 Component A: Water Supply and Sanitation Infrastructure Development  
 Component B: Institutional Effectiveness (Management Improvement and Capacity Building)  
 Component C: Program Management Facility (PMF)  
 Design Population For Year 2034 : 87 743 cap.  
 Water Intake Facility : Infiltration system facilities  
 Water Transmission Main : L = 15 100 m  
 Water Reservoirs, Chlorinator and Laboratory Buildings : V=3x2000, 2x2000, 2x10000, 1x5000 m3

Water Network System : 110 mm – 710 mm HDPE pipe L = 462 470 m

Sewerage System : L = 403 952 m

Main Collector : L = 3 451 m HDPE Pipe



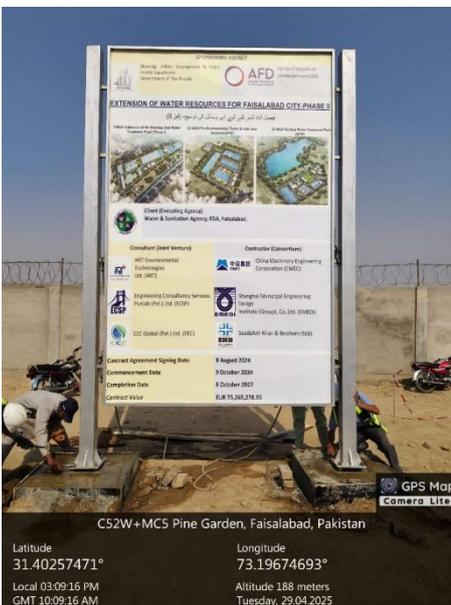
## Pakistan, Selection of Engineering, Design & Construction Supervision [Cluster Central], WB Funded

**Employer:** Punjab Rural Municipal Services Company (PRMSC)

**Date:** June 2025-Ongoing

**Location:** Pakistan, Punjab

**Details:** The Government of Punjab, with the support of the World Bank, launched the Punjab Rural Sustainable Water Supply and Sanitation Project (PRSWSSP) to improve WASH (Water, Sanitation, and Hygiene) conditions in rural areas across the province. The initiative, implemented through the Punjab Rural Municipal Services Company (PRMSC), targets 2,000 revenue villages, including both large and scattered remote habitations, covering more



than 6 million residents. The goal is to design and implement multi-village water supply schemes, 100% solid waste management systems, and climate-resilient infrastructure in 401 revenue villages across the Central Cluster, which includes the districts of Jhang, Chiniot, Bhakkar, and Pakpattan.

The Engineering Design and Construction Supervision Consultant (EDCS) is tasked with the planning, design, and resident supervision of infrastructure development. This includes feasibility studies, detailed engineering designs, preparation of bidding documents, environmental and social safeguard compliance, and operational business models to ensure the long-term sustainability of services. The project emphasizes integrated rural development, stakeholder engagement, community participation, environmental protection, and institutional capacity building.

Description of actual services provided in the assignment:

- Conduct comprehensive planning, feasibility studies, and GIS-based mapping for 401 revenue villages in Central Punjab.
- Perform socio-economic assessments, water demand forecasting, and stakeholder consultations.
- Develop detailed engineering designs, PC-I documents, Bill of Quantities (BoQs), and bidding documents in line with World Bank procurement regulations.
- Design integrated water supply and sanitation schemes, including groundwater analysis, geotechnical surveys, and hydraulic modeling.
- Prepare Environment and Social Management Plans (ESMPs), Resettlement Action Plans (RAP/ARAP), and conducted Environmental Impact Assessments (EIAs) in accordance with World Bank and Punjab Environmental Protection Department guidelines.
- Propose business and operational models for Village Councils, incorporating strategies for cost recovery, service efficiency, PPP options, and institutional strengthening.
- Provide full-time resident supervision during the construction phase, ensuring quality assurance, contract compliance, safety, and timely execution of works.
- Assist the client in procurement processes, contract administration, performance monitoring, and reporting.
- Integrate MIS-based monitoring and reporting tools for progress tracking, billing, and grievance redressal mechanisms.

## Pakistan, Selection of Engineering, Design & Construction Supervision [Cluster South III], WB Funded

**Employer:** Punjab Rural Municipal Services Company (PRMSC)

**Date:** June 2025-Ongoing

**Location:** Pakistan, Punjab

**Details:** The Government of Punjab, with support from the World Bank, has initiated the Punjab Rural Sustainable Water Supply and Sanitation Project (PRSWSSP) to address critical WASH (Water, Sanitation and Hygiene) needs in rural areas. The project is implemented by the Punjab Rural Municipal Services Company (PRMSC) and aims to serve approximately 6 million people across 2,000 revenue villages. The South-III cluster specifically covers 402 revenue villages in the Tehsils of Kehror Pacca (Lodhran), Khairpur Tamewali (Bahawalpur), and Bahawalnagar (Bahawalnagar district).



This project intends to provide sustainable and climate-resilient multi-village water supply systems, 100% solid waste management through recycling and composting, and enhanced sanitation services. The EDCS Consultant is responsible for feasibility studies, engineering design, safeguard documentation, procurement support, and full construction supervision. The ultimate goal is to ensure technically sound, economically viable, and socially inclusive infrastructure that contributes to improved public health, economic development, and environmental protection in the region.

Description of actual services provided in the assignment:

- Conduct comprehensive planning, feasibility studies, and GIS-based mapping for 401 revenue villages in Central Punjab.
- Perform socio-economic assessments, water demand forecasting, and stakeholder consultations.
- Develop detailed engineering designs, PC-I documents, Bill of Quantities (BoQs), and bidding documents in line with World Bank procurement regulations.
- Design integrated water supply and sanitation schemes, including groundwater analysis, geotechnical surveys, and hydraulic modeling.
- Prepare Environment and Social Management Plans (ESMPs), Resettlement Action Plans (RAP/ARAP), and conducted Environmental Impact Assessments (EIAs) in accordance with World Bank and Punjab Environmental Protection Department guidelines.
- Propose business and operational models for Village Councils, incorporating strategies for cost recovery, service efficiency, PPP options, and institutional strengthening.
- Provide full-time resident supervision during the construction phase, ensuring quality assurance, contract compliance, safety, and timely execution of works.
- Assist the client in procurement processes, contract administration, performance monitoring, and reporting.
- Integrate MIS-based monitoring and reporting tools for progress tracking, billing, and grievance redressal mechanisms

## PLANNING



### Feasibility Study of Reuse of Çiğli Wastewater Treatment Plant Discharge Water and Detailed Design of Reuse Irrigation System

**Employer:** İzmir Water and Sewerage Administration (İZSU)

**Date:** October 2022 - Ongoing

**Location** Turkey, İzmir

**Details:** The project

scope includes feasibility study and evaluation of alternatives for the reuse of Cigli Wastewater Treatment Plant (200,000 m<sup>3</sup> /day) discharge water re-use unit, with a capacity of 220 hm<sup>3</sup>/year. Reuse alternatives such as urban irrigation, agricultural irrigation, environmental reuse for feeding Gediz river delta and groundwater discharge are evaluated considering the environmental and financial criteria.



### Feasibility Study, Detailed Design and EIA Report of İzmir Province Karabağlar Wastewater Treatment Plant Feasibility Report, Detailed Design

**Employer:** İzmir Water and Sewerage Administration (İZSU)

**Date:** September 2023 - Ongoing

**Location** Turkey, İzmir



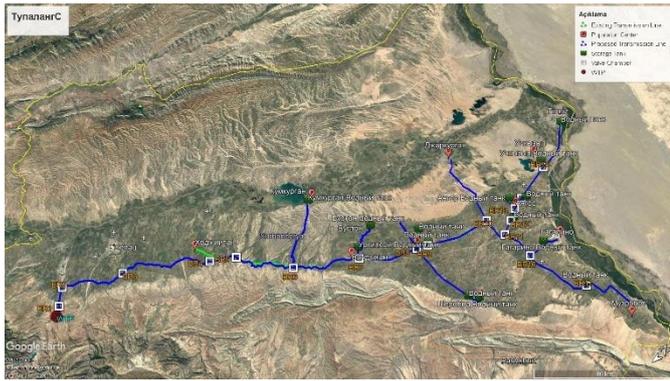
#### Details

1<sup>st</sup> Stage: 24.000 m<sup>3</sup> /day MBR + 24.000 m<sup>3</sup> /day Long Aeration Activated Sludge Hybrid System

2<sup>nd</sup> Stage: 96.000 m<sup>3</sup>/day MBR systema capacity waste water treatment plant Feasibility study, detailed design

according to the result of feasibility study and preparation of EIA report.





## Technical support and design for the development of the Feasibility Study (FS) of the project "Improvement of the drinking water supply system of Surkhandarya region using Tupolang reservoir waters"

**Employer:** JSC "Hydroproject"

**Date:** September 2021 - December 2022

**Location** Uzbekistan, Surkhandarya

**Details:** The assignment focused on the need to provide water consumers with high-quality drinking water, improve social living conditions and improve the health of the population in regional centers and rural settlements in Sariasi, Denau, Shurchinsky, Bandykhansky, Kiziriskiy, Kumkurgan, Sherabad, Jarkurgan, Angora, Muzrabad, Tezmez districts and the city of Termez, as well as supplying water to settlements located along the existing Tupolangi-Termez water pipeline. Scope covers review, finalisation and approval of feasibility study of 200,000 m<sup>3</sup>/day WTP and 400 km of main transmission line.

## Feasibility Study of Çeşme Desalination Plant

**Employer:** İzmir Water and Sewerage Administration (İZSU)

**Date:** October 2021 - November 2022

**Location** Turkey, İzmir

**Details:** The project scope is the feasibility study of Çeşme desalination plant in order to use sea water as water supply source. Project location which is Çeşme, a district of İzmir,, is a touristic place at Aegean region and summer population is considerably high as well as residential population.

Cesme Desalination Plant, Reverse Osmosis Sea water Desalination

1. phase, 2025 target year  $Q_{\text{design}} = 15\,000\text{ m}^3/\text{day}$ ,
2. phase, target year 2055  $Q_{\text{design}} = 35\,000\text{ m}^3/\text{day}$ .

## Feasibility Study and Detailed Design Work of Konya Province Karapınar and Suğla Locations Water Supply

**Employer:** Konya Water and Sewerage Administration KOSKI)

**Date:** September 2019 - December 2020

**Location:** Turkey, Konya

**Details:** The project aims to design the water supply need of Karapınar and Suğla Locations of Konya province. Design of infrastructure system

includes water transmission lines, water reservoirs and related all details; hydraulic modelling, profiles, washout and air release valve.

Design Flow Rate: 261 lt/s,

Design Population: 355,043 people. 2055 target year

Total Length of Water Transmission Line: 159,890 m (Ø600 - Ø90),

Water Storage: 2 x 100 m<sup>3</sup>, 1 x 200 m<sup>3</sup>.

### **Feasibility Study of Eskişehir (Centrum) Wastewater Treatment Plant**

**Employer:** İLBANK (EIB Financed)

**Date** November 2015 - April 2016

**Location** Turkey, Eskişehir

**Details:** Eskişehir is one of the developed cities of Turkey. ESKİ (Eskişehir Water and Sewage Administration) has two Wastewater Treatment Plants prior to discharge to receiving body. However, city population is increasing and requirements shall be met according to Urban Wastewater Treatment Regulations in future. Eskişehir WWTP capacity needs to be increased and 3rd stage of urban wastewater treatment plant need to be constructed to meet the legislative discharge criteria. Feasibility Study prepared for the City of Eskişehir to identify and define its priority legislative compliance and investment needs for the provision of public wastewater services by using EIB loans administrated by İller Bank, as per Turkish Urban Wastewater Treatment Regulation No. 26047 harmonized with the EC Directive 91/271/CEE . Eskişehir WWTP has a design capacity of 146,138 m<sup>3</sup>/day for a population equivalent of 1,344,012.

### **Burdur (Center) Wastewater Treatment Plant Feasibility Study (İlbank)**

**Employer:** İLBANK (EIB Financed)

**Date:** August 2015 - April 2017

**Location:** Turkey, Burdur

**Details:** Burdur has a Wastewater Treatment Plant prior to discharge into the receiving body (Burdur Lake); however, treatment process has been outdated. Burdur Lake is sensitive area according to Urban Wastewater Treatment Regulations and required discharge parameters cannot be achieved with existing operation. Therefore a new WWTP is required. Feasibility Study prepared for the Burdur to identify and define its priority legislative compliance and investment needs for the provision of public wastewater services by using EIB loans administrated by İller Bank, as per Turkish Urban Wastewater Treatment Regulation No. 26047 harmonized with the EC Directive 91/271/CEE. Burdur WWTP has:

1st stage capacity 32 820 m<sup>3</sup>/day, 105 935 EN

2nd stage capacity 41 448 m<sup>3</sup>/day, 134 980 EN



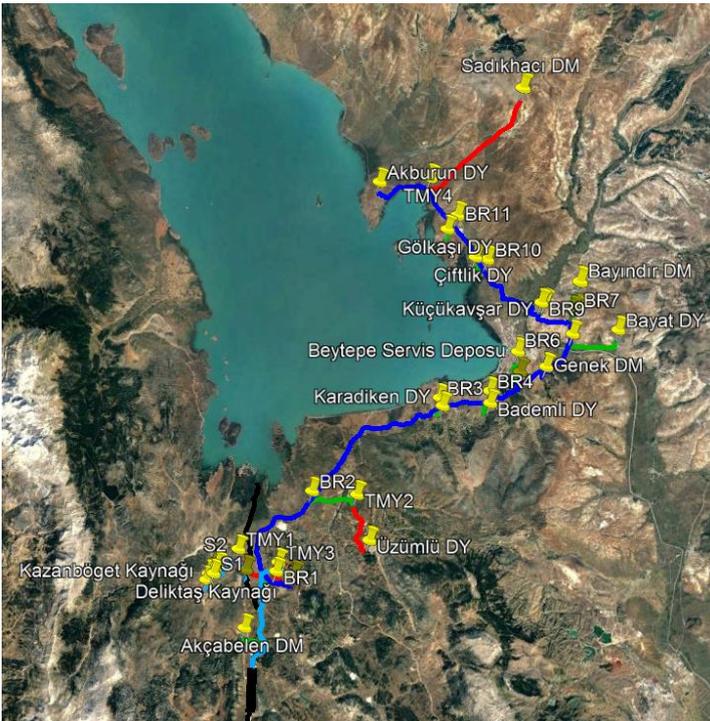
## Feasibility Study, Water Supply and Sewage Network Design Work of Gaziantep Town Various Accommodation Areas

**Employer:** Gaziantep Water and Sewerage Administration (GASKI)

**Date:** May 2014 - May 2016

**Location** Turkey, Gaziantep

**Details:** The project includes survey works, preparation of feasibility studies of water and sewerage systems and detailed design of infrastructure system for various accommodation areas with population 0 – 40 000 cap. Within the scope of the study, water and sewerage facilities of 139 settlements with 0-200 inhabitants, 95 settlements with 201-500 inhabitants, 36 settlements with 501-1000 inhabitants, 9 settlements with 1001-2000 inhabitants, 6 settlements with 2001-5000 inhabitants, and 1 settlement with 5001-10000 inhabitants were surveyed and feasibility reports were prepared. Afterwards, detailed design of 467.87 km of water network (pumping, transmission, network, etc.) and 285.73 km of sewer network has been completed.



## Beyşehir Group Drinking Water Supply Planning Report and Project Construction Work (DSİ)

**Employer:** State Hydraulic Works (DSİ)

**Date:** June 2018-Ongoing

**Location** Turkey, Konya

**Details:**

The project aims to planning of solutions to utilize alternative water resources for Beyşehir and Derebucak provinces. The purpose of the assignment is to plan the water supply system of Konya Beyşehir and Derebucak provinces. Technical feasibility studies of alternative water resources and optional water storage areas shall be carried out. Research of alternative water resources, hydrology

studies, analysis of water quality and flow rate with research and planning of alternative water storage areas are some sections of the assignment. Technical and financial capability of these alternatives shall be evaluated. After the planning phase, main transmission water supply line and water treatment plant design shall be done.



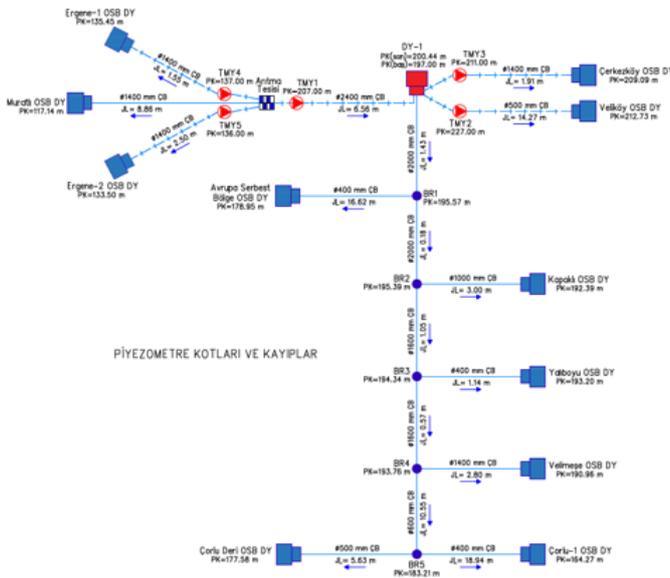
## Planning of Meric River Industrial, Commercial and Residential Water Supply Project

**Employer:** State Hydraulic Works (DSİ)

**Date:** April 2018-Ongoing

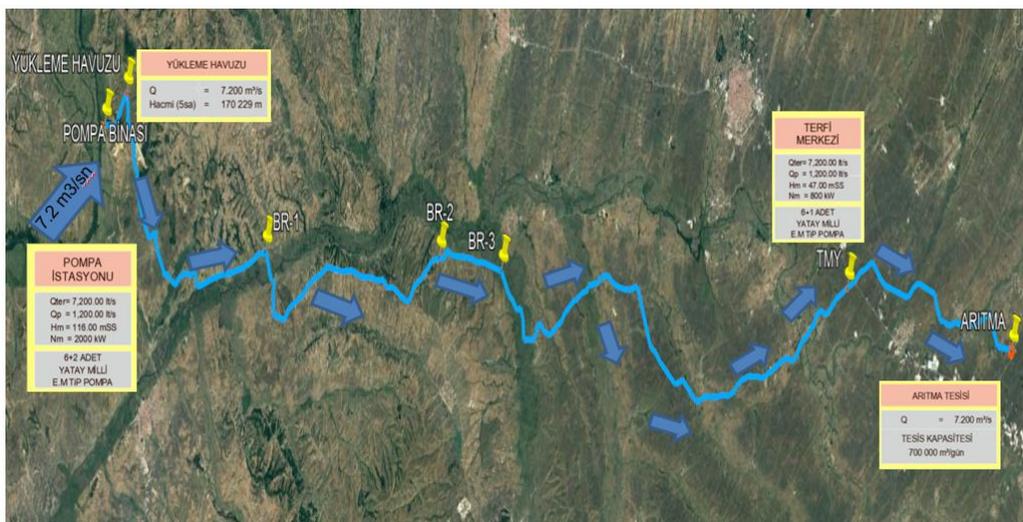
**Location** Turkey, Edirne -Tekirdağ – Kırklareli

### Details:

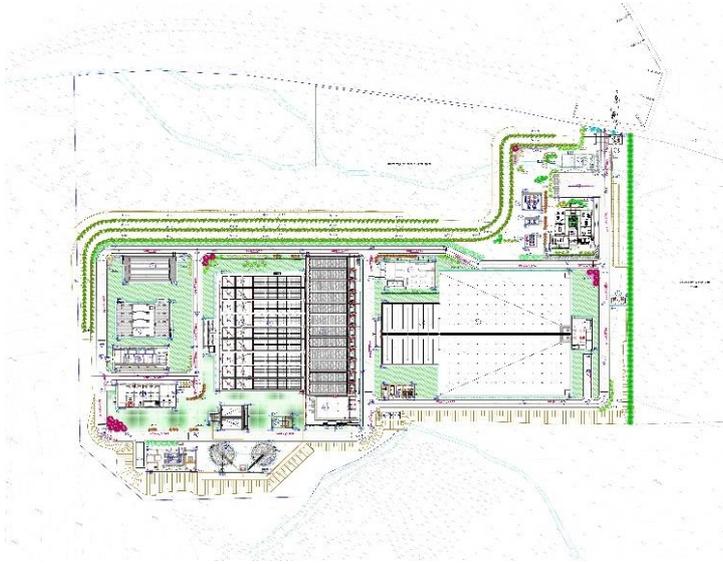


Industry in the Corlu-Cerkezkoy region, which consists of a significant portion of overall manufacturing industry in Turkey, also requires plenty of water to operate. In order to provide enough water to cover industry demands, flowrates in excess of 7.2 m<sup>3</sup>/s are proposed to be stored in intermediate storage tanks. As part of the Meric River Industrial, Commercial and Residential Water Supply Project Plan, appropriate studies will be completed and assessment reports will be completed that investigate industry supply to be directed to a nearby proposed water treatment plant. As part of the project, water supply

potential of all sources will be evaluated and hydrology, expropriation, flood protection, and water rights studies will be completed. Preliminary design of water retaining and water intake structures with main transmission line shall be completed. Main transmission line diameters are Ø 3000 - Ø 2000 with water treatment plant capacity 700 000 m<sup>3</sup>/day.



# INFRASTRUCTURE DESIGN



## Detailed Design of Water Supply Facilities from Bursa Çınarcık Dam

**Employer** State Hydraulic Works (DSI)

**Date:** May 2020 – April 2024

**Location** Turkey, Bursa

The project aims to design the water supply need of Bursa, Mudanya, Görükle, Çalı, Hasanağa, Akçalar, Başköy, Fadıllı, Gölyazı, Kayapa, Tahtalı, Yaylacık residential areas and industrial organized zones. Design of infrastructure system includes water transmission lines, water reservoirs and

related all details; hydraulic modelling, profiles, washout and air release valve. 2 alternatives of main transmission line route will be analysed Conventional type water treatment plant will also be designed within the scope of project. Project characteristics are;

Allocated Water Amount: 145 hm<sup>3</sup>/year (75 hm<sup>3</sup>/year for residential and 70 hm<sup>3</sup>/year for industrial usage)

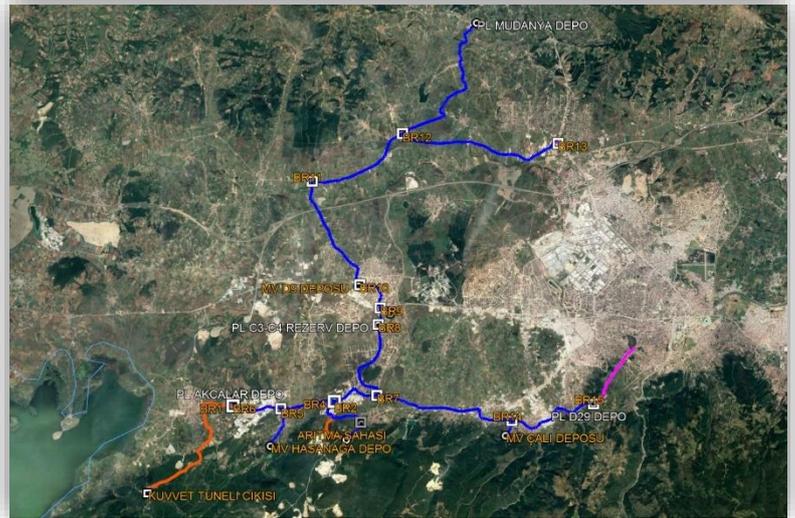
Design Flow Rate : 2 378,23 lt/sn

Design Population: 3 888 986 cap. with horizon of 2050

Total Length of Water Transmission Line: 72 215 m (Ø 2370 – Ø 398)

Water Treatment Plant: 300 000 m<sup>3</sup>/day

Water Storage: 1 x 300 m<sup>3</sup>, 2 x 10 000 m<sup>3</sup>



## Zonguldak Alaplı Water Supply Design

**Employer:** State Hydraulic Works (DSI)

**Start Date:** July 2021 - Ongoing

**Location:** Turkey, Zonguldak, Alaplı

**Details :** The aim of the project is to design water supply facilities for Alaplı and Ereğli district's n.66 residential areas. 6,86 hm<sup>3</sup> year form Gümeli Dam is allocated for the water supply need. Project target



year is 2055. Main objectives of the project is to ensure water supply sustainability, utilization of dam as water supply source instead of wells, lowering the cost of pump stations and existing system and Increase in the water quality which are polluted by the sewerage and rainwater leakage. Project characteristics are;

Design Flow Rate: 217,52 lt/sn

Design Population: 74 856 cap for year 2055.

Total Length of Water Transmission Line : 46 808 m

Water Treatment Plant : 35 000 m<sup>3</sup>/day

### Detailed Design of Çanakçı (Giresun) Conventional Package Water Treatment Plant

**Employer:** Ilbank

**Date:** June 2022 - October 2022

**Location:** Turkey, Giresun

**Details:** Detailed design of package water treatment plant consisting of aeration, rapid and slow mixer, clarifier, filter and chlorine contact tank units carried out in order to supply drinking water needs of Çanakçı District.



### Detailed Design of Devrekani (Kastamonu) Conventional Package Water Treatment Plant

**Employer:** Ilbank

**Date:** January 2022 - April 2022

**Location:** Turkey

**Details:** Detailed design of package water treatment plant consisting of aeration, rapid and

slow mixer, clarifier, filter and chlorine contact tank units carried out in order to supply drinking water needs of Devrekani District.

### İzmir Province Selçuk District Selçuk Wastewater Treatment Plant Detailed Design

**Employer:** İZSU

**Date:** July 2021- September 2022

**Location:** Turkey, İzmir, Selçuk

**Details:** The project covers detailed design of the waste water treatment plant of Selçuk district of İzmir. Plants treatment process is extended aeration type advance biological treatment. Project identification dossier shall also be prepared according to Environmental Impact Assessment legislation. WWTP characteristics are;

1st stage, with horizon 2045  $Q_{\text{design}} = 25\,921$  m<sup>3</sup>/day,  $Q_{\text{max}} = 35\,521$  m<sup>3</sup>/day, PE 100 000

2nd stage, with horizon 2060  $Q_{\text{design}} = 32\,423$  m<sup>3</sup>/day,  $Q_{\text{max}} = 44\,423$  m<sup>3</sup>/day, PE 125 000



## Şarköy Advanced Biological Wastewater Treatment Plant Implementation Project



**Employer:** Tekirdağ Water and Sewerage Administration (TESKİ)

**Start Date:** January 2021- Ongoing

**Location:** Turkey, Tekirdağ, Şarköy

**Details:** The project scope is the design of the treatment of waste water of Şarköy district and Gaziköy, Güzelköy, Çınarlıdere, Hoşköy, Mürefte, Aşağı ve

Yukarı Kalamış, Eriklice, Şenköy, Kirazlı, İğde Bağları neighborhoods of Tekirdağ according to discharge criteria's. Project location is a touristic place at Marmara region and summer population is considerably high.

The main objective of the project is to prevent pollution of Marmara Sea due to sewage discharge. WWTP characteristics are;

Equivalent Population 331 368 cap, with horizon 2056

1st stage, with horizon 2041 Qdesign = 61 009 m<sup>3</sup>/day, Qmax = 81 623 m<sup>3</sup>/day,

2nd stage, with horizon 2056 Qdesign = 82 155 m<sup>3</sup>/day, Qmax = 109 807 m<sup>3</sup>/day,

## Detailed Design of Cyprus Water Supply and Sewerage Systems (Zone 3)

**Employer** State Hydraulic Works (DSİ)

**Start Date:** July 2020 - Ongoing

**Location:** Cyprus, Multiple Municipalities

**Details:** The purpose of the assignment is to design sewerage network, rainwater collectors and wastewater treatment plants of Gazimağusa, İskele, Paşaköy, Tatlısu, Serdarlı, Vadili, Geçitkale, Akdoğan, Beyarmudu, Yeniboğaziçi, İnönü, Mehmetçik, Büyükkonuk, Yenierenköy, Dipkarpaz accommodation areas. Design horizon is 2055. Zone 3 covers the following structures:



Sewerage collector L = 63 377 m

Sewerage network L= 851 837 m

İnönü WWTP, Equivalent Population 9 024 cap,

Qavg = 2 563 m<sup>3</sup>/day, Qmax =5 126 m<sup>3</sup>/day,

Yeni Boğaziçi WWTP, Equivalent Population 14 016 cap,

Qavg = 3 304 m<sup>3</sup>/day, Qmax = 6 606 m<sup>3</sup>/day,

İskele WWTP, Equivalent Population 12 845 cap,

Qavg = 4 661 m<sup>3</sup>/day, Qmax = 9 323 m<sup>3</sup>/day

N.22 typical waste water treatment plants



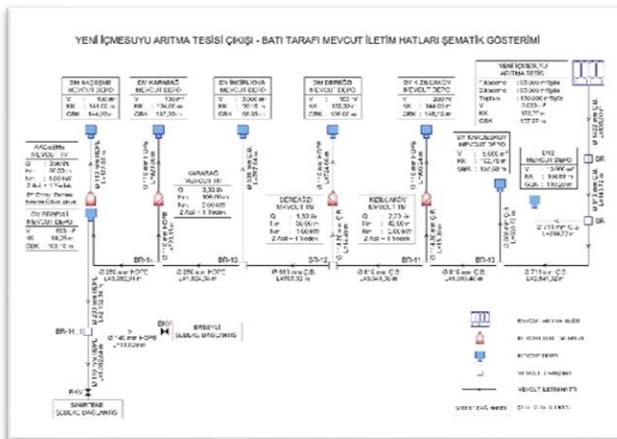
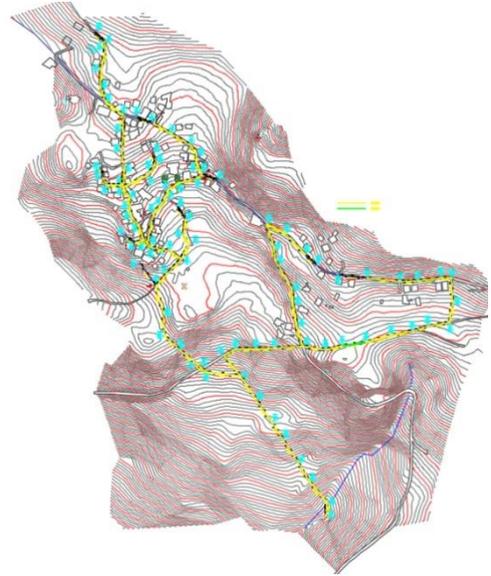
## Detailed Design of Sewerage and Rainwater Collection System Kızılcahamam and Çamlıdere Districts, Ankara

**Employer:** Ankara Water and Sewerage Administration (ASKI)

**Start Date:** July 2020 – March 2022

**Location:** Turkey, Ankara, Kızılcahamam, Çamlıdere

**Details:** The purpose of the assignment is to design sewerage network and rainwater collectors of Kızılcahamam and Çamlıdere district of Ankara. Design horizon is 2055. 413 300 m length of sewerage network is designed including geological and topographical survey works and preparation of bills of quantities.



## Detailed Design of Main Transmission Line of Germencik and Köşk Districts, Aydın

**Employer** State Hydraulic Works (DSİ)

**Date:** September 2019 - Ongoing

**Location** Turkey, Aydın, Germencik – Köşk

**Details:** The project aims to design the water supply need of Germencik and Köşk districts of Aydın province. Current situation, 2055 needs and existing network design works are reviewed and integrated within the project. Design of infrastructure system includes water transmission lines, water reservoirs and related all details; hydraulic modelling, profiles, washout and air release valve. Project characteristics are:

Design Flow Rate : 85 lt/sn

Design Population: 111 392 cap. With horizon of 2055

Total Length of Water Transmission Line: 37 000 m (Ø711 – Ø90)

## Beldibi-Göynük Region Capacity Increase and Rehabilitation Implementation Project



**Employer:** Antalya Water and Sewerage Administration (ASAT)

**Date:** December 2017 - April 2018

**Location:** Turkey, Antalya

**Details:** Project location is Beldibi and Göynük towns

located in the Antalya province, where highly intense tourism population is observed. A combined waste water treatment plant w

as designed for the replacement of n.2 existing treatment plants which are situated in the middle of touristic areas. Main objective of the project is to establish a single water treatment plant which shall serve the basin where various touristic facilities located; with Increased capacity in sewerage treatment and renewed infrastructure and the discharge water quality to Mediterranean Sea. WWTP characteristics;

Equivalent Population 70 190 cap, with horizon 2025 and 86 088 with horizon 2050  
1st stage, Qdesign = 71 524 m<sup>3</sup>/day, Qmax = 76 500 m<sup>3</sup>/day,  
2nd stage, Qdesign = 85 747 m<sup>3</sup>/day, Qmax = 93 500 m<sup>3</sup>/day

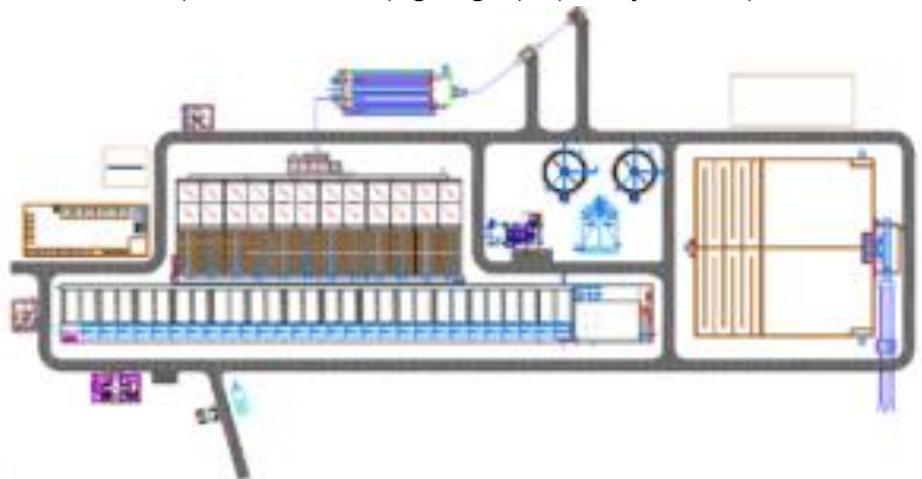
## Antalya Manavgat Oymapınar Main Transmission Line & Water Treatment Plant Design

**Employer** Antalya Water and Sewerage Administration (ASAT)

**Start Date:** June 2017 – October 2017

**Location:** Turkey, Manavgat

**Details:** The project aims to modify the water supply of Antalya Municipality as Oymapınar Dam instead of groundwater sources mainly utilized at city geography. Project scope covers distribution of 900 000 m<sup>3</sup>/day water from new treatment plant to 552 960 m<sup>3</sup>/day capacity to Antalya city province and districts, 187 040 m<sup>3</sup>/day capacity to Manavgat and Alanya districts and remaining 160 000 m<sup>3</sup>/day capacity to the other distribution points and existing water treatment plant storage.



Main objectives of the Project are Increase in the water quality and Lowering the cost of pumping stations by rehabilitation of the existing treatment plant and new treatment plant design with updated and modern solutions. Project Characteristics are:

Design Flow Rate : Variable (From 2 000 lt/sn to 41 lt/sn)

Design Population: 3 939 871 cap.

Total Length of Water Transmission Line : 420 318 m,  $Q_{total}$  : 1 236 400 m<sup>3</sup>/day

Existing water treatment plant capacity: 250 000 m<sup>3</sup>/day

New water treatment plant capacity :900,000 m<sup>3</sup>/day

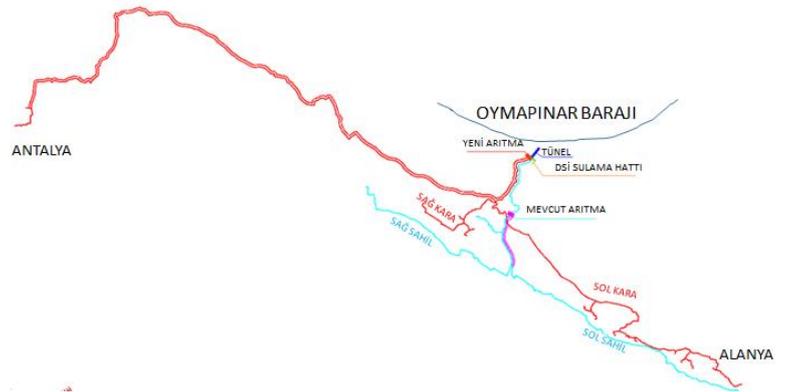
Tunnel DN 3500 mm, L = 1940 m

Gundoğu Pumping station: 73 lt/sec capacity

Konaklı Pumping station: 1297 lt/sec capacity

Main Transmission Line Characteristics:

- DN3200 mm, L = 9.911 m
- DN3000 mm, L = 149.815 m
- DN2000 mm, L= 82.577 m
- DN1600 mm, L = 15.979 m
- DN1400 mm, L = 50.920 m
- DN1200 mm, L = 54.562 m
- DN1000 mm, L = 9.819 m
- DN800 mm, L = 13.737 m
- DN600 mm, L = 14.577 mm
- DN400 mm, L = 7.457 m
- DN300 mm, L = 6.096 m
- DN150 mm, L = 4.868 m



## Preparation of Detailed Design of Pirsagi Rayon Sewage Treatment Plant



**Employer** Hansol Eme Co. Ltd

**Start Date:** July 2016 – February 2019

**Location** Azerbaijan, Pirsahi

**Details:** The services include detailed design of waste water treatment plant which shall serve in Pirsahi region. The assignment includes preparation of Environmental and Social Impact Assessment Report. WWTP Characteristics:

Design Population For Year 2035- 325 000 persons

$Q_{design+rainfall}$  = 260 000 m<sup>3</sup>/day,

$Q_{biological}$  = 60 000 m<sup>3</sup>/day (2nd stage),

$Q_{biological}$  = 40 000 m<sup>3</sup>/day (1st stage)

Deep Sea Discharge (Caspian Sea) L=1.7 km,  $\varnothing$  1600 mm



## Bursa Districts n.14 Waste Water Treatment Plant Application Projects

**Employer:** Bursa General Directorate of Water and Sewerage Administration (BUSKİ)

**Date:** January 2016- November 2018

**Location:** Turkey, Bursa

**Details:** The consultancy work includes the detailed design of 15 wastewater treatment plants and 2 pumping stations belonging to various districts within the borders of Bursa Metropolitan.



- 1.İnegöl (City Center) WWTP,  
Equivalent population 934 825 people,  
Qort = 149 557 m<sup>3</sup>/day, Qmax = 279 752 m<sup>3</sup>/day,
- 2.Kestel-Gürsu Common WWTP,  
Equivalent population 1 078 800 people,  
Qort = 194 096 m<sup>3</sup>/day, Qmax = 388 192 m<sup>3</sup>/day,
- 3.Karacabey (City Center) WWTP,  
Equivalent population 239 300 people,  
Qort = 50 403 m<sup>3</sup>/day, Qmax = 111 411 m<sup>3</sup>/day,
- 4.Harmançık (City Center) WWTP,  
Equivalent population 8 825 people  
Qort = 1 723 m<sup>3</sup>/day, Qmax = 3 122 m<sup>3</sup>/day,
- 5.Büyükorhan (City Center) WWTP,  
Equivalent population 6 925 people,  
Qort = 2 074 m<sup>3</sup>/day, Qmax = 3 596 m<sup>3</sup>/day,
- 6.Yeniköy (Karacabey) WWTP, 4 358 m<sup>3</sup>/day  
Equivalent population 22 500 people,  
Qort = 4 358 m<sup>3</sup>/day, Qmax = 7 108 m<sup>3</sup>/day,
- 7.Uludağ WWTP,  
Equivalent population 14 650 people,  
Qort = 2 240 m<sup>3</sup>/day, Qmax = 4 489 m<sup>3</sup>/day,
- 8.Keles (City Center) WWTP,  
Equivalent population 12 600 people,  
Qort = 1 843 m<sup>3</sup>/day, Qmax = 3 233 m<sup>3</sup>/day,

9.Esence (Mudanya) WWTP,  
Equivalent population 13 000 people,  
Qort = 2 184 m<sup>3</sup>/day, Qmax = 3 122 m<sup>3</sup>/day,  
10.Mesudiye (Mudanya) WWTP,  
Equivalent population 10 000 people,  
Qort = 1 904 m<sup>3</sup>/day, Qmax = 3 048 m<sup>3</sup>/day,  
11.Tirilye (Mudanya) WWTP,  
Equivalent population 6 025 people,  
Qort = 806 m<sup>3</sup>/day, Qmax = 1 588 m<sup>3</sup>/day,  
12.Orhangazi WWTP,  
Equivalent population 241 036 people,  
Qort = 34 272 m<sup>3</sup>/day, Qmax = 68 544 m<sup>3</sup>/day,  
13.Görükle pump station, Qp=710 lt/sec, DN=800 mm, L=260 m  
14.Alanyurt pump station, Qp=515 lt/sec, DN=710 mm, L=570 m  
15,500-person package WWTP,  
Qort = 156 m<sup>3</sup>/day, Qmax = 300 m<sup>3</sup>/day,  
16,700-person package WWTP,  
Qort = 188 m<sup>3</sup>/day, Qmax = 398 m<sup>3</sup>/day,  
17,500 pax constructed wetland,  
Qort = 156 m<sup>3</sup>/day, Qmax = 300 m<sup>3</sup>/day,

### Detailed Design of Salıpazarı Dam (Samsun) Water Treatment Plant Project

**Employer:** Samsun Metropolitan Municipality Water and Sewerage Administration (SASKİ )

**Date:** November 2024- Ongoing

**Location:** Türkiye,Samsun,Salıpazarı

**Details:** The project covers detailed design of 100.000 m<sup>3</sup>/day capacity water treatment plant. Water supply resource is Salıpazarı Dam. N.2 pumping stations will also be designed within the scope of the assignment.

Water Treatment Plant Capacity: 100,000 m<sup>3</sup>/day

Design Horizon:2060

Description of actual services provided in the assignment:

- Collection and revision of all available data concerning existing water supply systems,
- Evaluation of technical, financial and economical capabilities,
- Topographical and geotechnical studies,
- Suggestion of technical solutions,
- Preparation of BOQ's, cost estimates and tender documents,

Detailed design of below structures:

- Inlet Aeration
- Rapid Mixer Tank



- Slow Mixer Tank
- Coagulation and Flocculation
- Chlorination System
- SCADA System
- Chemical Building
- Return and Excess Sludge Pumping Station
- Blower Building
- Sludge Thickening Building
- Filter washing and recycle system
- Administration Building
- Transformer and Generator Building
- Heat Center

## Detailed Design of Water Supply Facilities from Yalova Armutlu and Kaledere Dams

**Employer:** State Hydraulic Works (DSİ)

**Date:** January 2025 - Ongoing

**Location:** Türkiye, Yalova

**Details:** The project aims to supply long term water need of Armutlu district of Yalova province from Armutlu and Kaledere Dams. Scope includes detailed design of below water structures:

- Main transmission line with a length of approximately 11 km,
- 35 000 m<sup>3</sup>/day capacity water treatment plant
- Water tanks, pumping station and auxiliary structures,

Description of actual services provided in the assignment:

- Collection and revision of all available data concerning existing water supply systems,
- Water analysis of Armutlu and Kaledere water sources
- Evaluation of technical, financial and economical capabilities,
- Suggestion of technical solutions,
- Preparation of feasibility report,
- Topographical and geotechnical studies,
- Detailed design of water treatment plant, main transmission line, water tanks, pumping station and auxiliary structures,
- Preparation of BOQ's, cost estimates and tender documents,
- GIS studies,



## Detailed Design of Tekirdağ 2nd Stage Water Treatment Plant

**Employer:** State Hydraulic Works (DSİ)

**Date:** October 2024- Ongoing

**Location:** Türkiye, Tekirdağ

**Details:** The project covers design of 60,000 m<sup>3</sup>/day capacity 2nd stage water treatment plant. Water supply resource is Dedecik, Otmanlı and İncik Dams. Rehabilitation of 1st stage Tekirdağ Water Treatment Plant having 90,000 m<sup>3</sup>/day capacity is also included within the scope; the existing plant shall be reviewed and a rehabilitation report shall be prepared.

2nd Stage Water Treatment Plant Capacity: 60,000 m<sup>3</sup>/day

Design Horizon: 2055

Description of actual services provided in the assignment:

- Collection and revision of all available data concerning existing water treatment plant,
- Water analysis of Dedecik, Otmanlı and İncik water source,
- Topographical and geotechnical studies,
- Evaluation of technical, financial and economical capabilities,
- Suggestion of technical solutions,
- Preparation of BOQ's, cost estimates and tender documents,
- GIS studies,

Detailed design of below structures:

- Inlet Aeration
- Rapid Mixer Tank
- Slow Mixer Tank
- Coagulation and Flocculation
- Chlorination System
- SCADA System
- Chemical Building
- Return and Excess Sludge Pumping Station
- Blower Building
- Sludge Thickening Building
- Filter washing and recycle system
- Administration Building
- Transformer and Generator Building
- Heat Center



## Uzbekistan, Development of Detailed Design and Tender Documents for the Construction and Upgrade of the Water Supply System in Jarkurgan city of Surkhandarya Region, WB Funded

**Employer:** The Ministry of Economy and Finance of the Republic of Uzbekistan

**Date:** July 2025-Ongoing

**Location:** Uzbekistan, Jarkurgan, Surkhandarya

**Details:** The Government of Uzbekistan, with support from the World Bank and the Asian Infrastructure Investment Bank, has initiated the Medium-size Cities Integrated Urban Development Project to improve water supply infrastructure and services in selected urban areas. The Project Implementation Unit (PIU) under the Ministry of Economy and Finance is responsible for execution. This assignment focuses on the city of Jarkurgan in the Surkhandarya region and aims to develop detailed designs and tender documents for the construction and upgrading of the city's water supply system.

The project intends to provide a reliable, safe, and sustainable water supply, reduce system losses, and improve operational efficiency. The expected outcome is improved access to potable water, enhanced public health, and improved living standards for urban residents.

Reconstruction of the water supply system in Jarkurgan, Surkhandarya region

Reconstruction of existing water intake facilities "Markaziy"

- Reconstruction of water supply networks (Total length - 18.1 km)
- New construction of water supply networks (Total length - 27.6 km)
- Construction of household connections (Quantity - 4999 units)
- Reconstruction of the second lift pumping station 14x6x3 m with the replacement of pumping equipment (with the latest energy-saving pumping unit (4 working pumps, 2 reserve pumps) with pump parameters in the unit Q-70 l/s, H-55m)
- Partial reconstruction of two clean water tanks of 1200 m<sup>3</sup>
- Construction of a new 500 m<sup>3</sup> tank (1 unit)
- Reconstruction of the premises for 3 existing wells and pumping out existing and 1 gravity well
- Replacement of pumping equipment in wells - 2 units (with pump parameters Q-75 m<sup>3</sup>/hour, H-60 m, P-2 2 kW)
- Reconstruction of auxiliary facilities located on the water intake site; reconstruction of the laboratory building and equipping it with laboratory equipment
- Reconstruction of the existing chlorination station 6 x 6 x 3 m with the installation of electrolysis equipment with a capacity of 4 kg/day



## Uzbekistan, Development of Detailed Design and Tender Documents for the Construction and Upgrade of the Water Supply System and Wastewater Treatment System in Kumkurgan City of Surkhandarya Region, WB Funded

**Employer:** The Ministry of Economy and Finance of the Republic of Uzbekistan

**Date:** July 2025-Ongoing

**Location:** Uzbekistan, Kumkurgan, Surkhandarya

**Details:** The project will finance the construction and reconstruction of the sewerage system in the city of Kumkurgan, including the construction and reconstruction of 45.5 km of drinking water supply systems, the reconstruction of existing water intake facilities, the new construction of 29.0 km of sewerage systems, the construction of a WWTP, the implementation of a wastewater treatment control system (creation of a laboratory), to ensure access for the entire population of the city to improved sanitary conditions.

The overall objective of this project is;

- to improve the living conditions, environment and health of the population in the Surkhandarya region.
- to improve the availability and quality of public water supply and sewerage services and expand access to reliable, sustainable and affordable water supply and sanitation services in the city of Kumkurgan.

Description of actual services provided in the assignment:

Review and update of the Feasibility Study

Development of Detailed Design

Preparation of environmental and social safeguards documents relevant to the Project

Preparation of Bidding documents and Procurement Assistance

Author's supervision during construction of the below works contract packages:

Reconstruction of existing water intake facilities "Markaziy"

- Reconstruction of existing water intake facilities "Tugon";
- Reconstruction of existing water intake facilities "Zhiydali";
- Reconstruction of the water distribution facility URV "Azlarsoy" for receiving water from the Tupolang water pipeline;
- Construction of new water supply networks and reconstruction of existing ones in Kumkurgan district center L=45.5 km;
- Construction of household water supply connections (subscriber) in Kumkurgan district center in the amount of 9248 units
- New construction of sewage treatment facilities with a capacity of 8,000 m<sup>3</sup>/day at the site of existing WWTP with the dismantling of existing facilities;
- Construction of new sewer networks L=34.6 km and pressure collector L=2x5.69 km to the WWTP site in Kumkurgan district center, construction of GKNS (q=101 l/s);
- Construction of household sewer connections (subscribers) in Kumkurgan district center in the amount of 9248 units.



## Uzbekistan, Development of Detailed Design and Tender Documents for the Construction and Upgrade of the Water Supply System in Sariasia City of Surkhandarya Region, WB Funded

**Employer:** The Ministry of Economy and Finance of the Republic of Uzbekistan

**Date:** July 2025-Ongoing

**Location:** Uzbekistan, Sariasia, Surkhandarya

**Details:** The project will finance the construction and reconstruction of the water supply system in the district center of Sariasia, including but not limited to the construction and reconstruction of 78 km of water supply networks, the reconstruction of the "Airport" water supply station, as well as household connections, to ensure access for the entire population of the city to improved conditions.

The overall objective of this project is;

- to improve the living conditions, environment and health of the population in the Surkhandarya region.

to improve the availability and quality of public water supply and sewerage services and expand access to reliable, sustainable and affordable water supply and sanitation services in the city of Sariasia.

The results of the project will be as follows:

Improved management of water supply systems in the the city of Sariasia.

Description of actual services provided in the assignment:

Review and update of the Feasibility Study

Development of Detailed Design

Preparation of environmental and social safeguards documents relevant to the Project

Preparation of Bidding documents and Procurement Assistance

Author's supervision of the below works contract:

Reconstruction of the water supply system in the district center of Sariasia, Surkhandarya region:

- Reconstruction of the existing "Airport" water intake facilities;
- Reconstruction of the existing second lift pumping station and replacement of pumping equipment (pumping unit with 3 working pumps and 2 reserve pumps, with pump parameters in the unit Q-14.67 l/s, H-59 m);
- Reconstruction of the existing chlorination station with the installation of electrolysis equipment with a capacity of 3.0 kg/day;
- Reconstruction of existing wells with repair of well houses and replacement of pumping equipment in the wells (2 units, with pump parameters Q-110-120 m<sup>3</sup>/h, H-90 m, P-45 kW);
- Repair of two reservoirs with a capacity of 750 cubic meters each;
- Reconstruction of the on-site power supply network;
- Reconstruction of the existing water supply networks in the district center of Sariasia, L=29.0 km;



- Construction of new water supply networks in the district center of Sariasiya, L=49.05 km;
- Construction of household water supply connections (subscriber connections) in the district center of Sariasiya, totaling 6953 units.;

## **Uzbekistan, Development of Detailed Design and Tender Documents for the Construction and Upgrade of The Sewerage System in Shurchi City of Surkhandarya Region, WB Funded**

**Employer:** The Ministry of Economy and Finance of the Republic of Uzbekistan

**Date:** July 2025-Ongoing

**Location:** Uzbekistan, Shurchi, Surkhandarya

**Details:** The project will finance the construction and rehabilitation of the wastewater system in Shurchi city, including (but not limited to), the construction of a new wastewater treatment plant, five pumping stations, 49.5 km sewerage network and household connections to enable access to improved sanitation for the entire population residing in the city.

The overall objective of this project is;

- to improve the living conditions, environment and health of the population in the Surkhandarya region.
- to improve the availability and quality of public water supply and sewerage services and expand access to reliable, sustainable and affordable water supply and sanitation services in the city of Surchi.

Description of actual services provided in the assignment:

Review and update of the Feasibility Study

Development of Detailed Design

Preparation of environmental and social safeguards documents relevant to the Project

Preparation of Bidding documents and Procurement Assistance

Author's supervision of the below works:

- Construction of new sewer networks of 49.5 km, construction of sewage treatment facilities with a capacity of 5,000 cubic meters per day on a new site, including the SCADA system.
- Construction of ECO-ANBR biological treatment facilities with a capacity of 5,000 cubic meters per day, complete with equipment and automation;
- Construction of an administrative building, a shed for sludge storage;
- Construction of fire reservoirs with a capacity of 100 cubic meters - 2 units;
- Construction of a transformer substation TP - KTPG-1x400kVA;
- Installation of a diesel generator with a capacity of 250 kVA;
- Landscaping and greening;
- Construction of a reinforced concrete fence L=966m with a gate and doors;
- External power supply line 10 kV - 5 km.
- Construction of new sewer networks L=49.5 km and pressure collectors in the Shurchi district and construction of a main sewage pumping station (q=198.5 l/sec) and 2 sewage pumping stations with a flow rate (q=6 l/sec; q=7.1 l/sec).
- Construction of household sewer connections (subscriber connections) in the Shurchi district in the amount of 3,589 units.



## Uzbekistan, Development of Detailed Design and Tender Documents for the Construction and Upgrade of the Water Supply System and Wastewater Treatment System in Uzun City of Surkhandarya Region, WB Funded

**Employer:** The Ministry of Economy and Finance of the Republic of Uzbekistan

**Date:** July 2025-Ongoing

**Location:** Uzbekistan, Uzun, Surkhandarya

**Details:** The project will finance the construction and reconstruction of the sewerage system in the city of Uzun, the construction and reconstruction of 102 km of drinking water supply systems, construction of new water distribution facility, the new construction of 54 km of sewerage systems, construction of pumping stations, construction of a wastewater treatment plant, the implementation of a wastewater treatment control system (creation of a laboratories), to ensure access for the entire population of the city to improved sanitary conditions.

The overall objective of this project is;

- to improve the living conditions, environment and health of the population in the Surkhandarya region.
- to improve the availability and quality of public water supply and sewerage services and expand access to reliable, sustainable and affordable water supply and sanitation services in the city of Uzun.

Description of actual services provided in the assignment:

Review and update of the Feasibility Study

Development of Detailed Design

Preparation of environmental and social safeguards documents relevant to the Project

Preparation of Bidding documents and Procurement Assistance

Author's supervision of the below works:

- Construction of 61.0 km of new water supply networks, reconstruction of 41.0 km of existing water supply networks, construction of a new water distribution facility, and creation of a drinking water quality control system (creation of laboratories).
- New construction of wastewater treatment facilities with a capacity of 5,000 m<sup>3</sup> at a new site;
- Construction of biological treatment facilities with a capacity of 5,000 m<sup>3</sup>, complete with equipment and automation;
- Construction of an administrative and household building;
  
- Construction of a shed for sludge storage;
- Construction of fire reservoirs with a capacity of 100 m<sup>3</sup> - 2 units;
- Construction of new sewer networks and pressure collectors in Uzun, and construction of a main pumping station (q=260 l/sec) and 1 pumping station with a flow rate (q=100 l/sec); 1 pumping station with a flow rate (q=62.5 l/sec).
- Construction of household sewer connections (subscriber connections) in of Uzun, totaling 8,944 units.



# FLOOD MANAGEMENT

## Preparation of Asi and Seyhan Basins Flood Management Plans



**Employer:** Ministry of Agriculture and Forestry, at Directorate of Water Management

**Date:** June 2018- December 2020

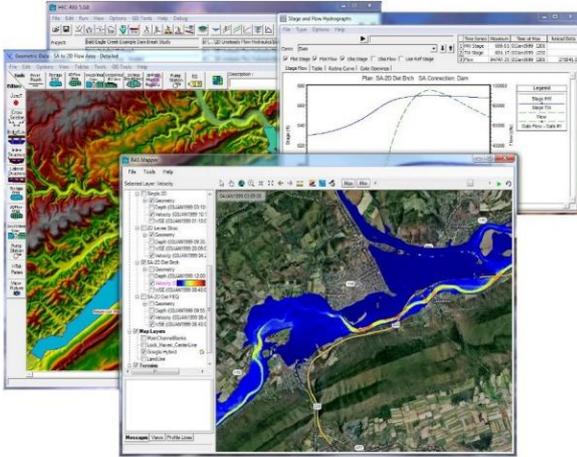
**Location:** Turkey, Asi-Seyhan Basins

### Details:

Project aims to preparation of flood risk management plans of Asi and Seyhan

basins, which are two of 25 basins of Turkey. Flood risk shall be evaluated within the borders of basins as a whole and mapping works shall be carried out in order to form flood hazard and risk maps. Mitigation plans shall be prepared for prior, during and afterward flood stages

- Preparation of the Flood Risk Preliminary Assessment Report taking into account the potential negative impacts of past and future floods on human health, environment, cultural heritage and economic activities, topography, routes of streams and rivers and natural water retention areas, floodplains, general hydrological and geological characteristics, efficiency level of existing infrastructures, location of settlement areas, economic activity areas, strategic structures and possible impacts of climate change, separately in Asi and Seyhan Basins. Conducting flood hydrology studies by using hydrological model and classical methods for the areas found to be risky in the preliminary flood risk assessment report, separately in Asi and Seyhan Basins, and preparing the Hydrology Report Creation of 1-dimensional and 2-dimensional Hydrodynamic model using



the numerical data in the project, processing all existing structures on the river beds on the model, determining the change of water on the cross-sections.

- Creation of Flood Hazard Maps by using flood peak flows in settlements and economic activity areas.
- Creation of Flood Risk Maps with GIS database by revealing the risks in each area shown in Flood Hazard Maps
- Preparation of Flood Management Plans for Asi and Seyhan Basins separately
- Updating or improving the Database by using the data previously created and created within the scope of the work.

ART ENVIRONMENTAL TECHNOLOGIES							
DRINKING WATER TREATMENT PLANT PROJECT LIST							
	Location	Start Date	Completion Date	Drinking Water Quantity (m <sup>3</sup> /day)	Treatment Type	Detailed Design	Consultancy
1	ARTVİN (CENTRAL) DSİ GENERAL DIRECTORATE	Mar.14	Mar.18	20.000	CONVENTIONAL (Pre-Ozonated)	✓	
2	KUŞADASI - SÖKE (AYDIN) DSİ GENERAL DIRECTORATE	Mar.14	May.21	100.000	CONVENTIONAL (Pre-Ozonated)	✓	
3	GEMLİK (BURSA) DSİ GENERAL DIRECTORATE	May.12	Oct.2014	70.000	CONVENTIONAL (Pre-Ozonated)	✓	
4	ÇANAKKALE 2nd DISTRICT (CENTRAL) DSİ GENERAL DIRECTORATE	Jun.2013	May.16	100.000	CONVENTIONAL (Pre-Ozonated)	✓	
5	ERGANİ (DİYARBAKIR) DSİ GENERAL DIRECTORATE	Jul.2012	Jul.2013	42.500	CONVENTIONAL (Pre-Ozonated)	✓	
6	HİLVAN (DİYARBAKIR) DSİ GENERAL DIRECTORATE	May.12	Sep.2013	15.000	CONVENTIONAL (Pre-Ozonated)	✓	
7	DİVRİĞİ (SİVAS) DSİ GENERAL DIRECTORATE	May.12	Jun.2013	8.000	CONVENTIONAL (Pre-Ozonated)	✓	
8	CİZRE (ŞIRNAK) DSİ GENERAL DIRECTORATE	Mar.13	Sep.2014	100.000	CONVENTIONAL (Pre-Ozonated)	✓	
9	ERCİŞ (VAN) DSİ GENERAL DIRECTORATE	Dec.2012	May.15	76.000	CONVENTIONAL (Pre-Ozonated)	✓	
10	AKÇAKOCA (DÜZCE) DSİ GENERAL DIRECTORATE	Jan.2015	Aug.2016	26.000	CONVENTIONAL (Pre-Ozonated)	✓	
11	DENİZLİ (CENTRE) DSİ GENERAL DIRECTORATE	Mar.14	Mar.18	100.000	CONVENTIONAL (Pre-Ozonated)	✓	
12	BAFRA (SAMSUN) DSİ GENERAL DIRECTORATE	Dec.2014	Oct.2017	100.000	CONVENTIONAL (Pre-Ozonated)	✓	
13	BOYABAT (SİNOP) DSİ GENERAL DIRECTORATE	Jan.2015	Feb.2018	30.000	CONVENTIONAL (Pre-Ozonated)	✓	
14	ŞARKIŞLA (SİVAS) DSİ GENERAL DIRECTORATE	Mar.16	Jun.2017	14.342	CONVENTIONAL (Pre-Ozonated)	✓	
15	İNEGÖL (BURSA) DSİ GENERAL DIRECTORATE	Feb.2017	Jun.2023	120.000	CONVENTIONAL (Pre-Ozonated)	✓	
16	KARABURUN (İZMİR) DSİ GENERAL DIRECTORATE	Mar.17	May.19	23.760	CONVENTIONAL (Pre-Ozonated)	✓	
17	YEDİGÖZE (ADANA) ASKİ	Feb.2016	Oct.2016	115.776	POTASSIUM PERMANGANATE (Pre-Chlorination)	✓	
18	GENCE (AZERBAIJAN)	Dec.2010	Oct.2012	115.000	CONVENTIONAL	✓	
19	KARABÜK (CENTRE) DSİ GENERAL DIRECTORATE	Nov.2016	Dec.2017	26.000	REVERSE OSMOSIS	✓	
20	ÇINARCİK (BURSA) DSİ GENERAL DIRECTORATE	May.20	Apr.2024	300.000	CONVENTIONAL SALT CHLORINATION (PRE-OZONATED)	✓	
21	ÇEŞME (İZMİR) İZSU	Oct.2021	Nov.2022	15.000	SEAWATER TREATMENT	FEASIBILITY	
22	DEVREKHANI (KASTAMONU) İLBANK	Jan.2022	Apr.2022	5.000	PACKAGE CONVENTIONAL	✓	
23	ÇANAKCI (GİRESUN) İLBANK	Jun.2022	Oct.2022	5.000	PACKAGE CONVENTIONAL	✓	
24	ALAPLI (ZONGULDAK) DSİ GENERAL DIRECTORATE	Jul.2021	Ongoing	35.000	CONVENTIONAL SALT CHLORINATION (PRE-OZONATED)	✓	
25	MİLAS (AYDIN) DSİ GENERAL DIRECTORATE	Nov.2017	Oct.2022	21.000	CONVENTIONAL (Pre-Ozonated)		✓
26	FAISALABAD (PAKISTAN)	Feb.2022	Ongoing	125.000	CONVENTIONAL	PRE-PROJECT	✓
27	SURKHANDARYA (UZBEKISTAN)	Sep.2021	Ongoing	200.000	CONVENTIONAL SALT CHLORINE (PRE-OZONATION)	✓	✓
28	MANAVGAT (ANTALYA) ASAT	Jun.2017	Oct.2017	900.000	CONVENTIONAL SALT CHLORINE (PRE-OZONATION)	FEASIBILITY + PRELIMINARY PROJECT	
29	SALIPAZARI (SAMSUN) SASKİ	Dec.2024	Ongoing	100.000	CONVENTIONAL (Pre-Ozonated)	✓	
30	YALOVA (BURSA) DSİ	Jan.2025	Ongoing	35.000	CONVENTIONAL (Pre-Ozonated)	✓	
	<b>TOTAL</b>			<b>2.943.378</b>			



## ART ENVIRONMENTAL TECHNOLOGIES

## LIST OF WASTEWATER TREATMENT PLANT PROJECTS

	Location	Start Date	Completion Date	Wastewater Quantity Avg. (m <sup>3</sup> /day)	Wastewater Quantity Max. (m <sup>3</sup> /day)	Treatment type	Detailed Design	Müşavirlik	Sulama Alanı (m <sup>2</sup> )
1	BELDİBİ GÖYNÜK (ANTALYA) ASAT	Jan.2018	Apr.2018	53.151	90.310	ADVANCED BIOLOGICAL WWTP	✓		12.963.659
2	İMAMOĞLU (ADANA) ASKİ	Sep.2017	Sep.2019	4.884	8.105	ADVANCED BIOLOGICAL WWTP	✓		1.191.220
3	YUNUSOĞLU (ADANA) ASKİ	Sep.2017	Sep.2019	10.358	2.247	ADVANCED BIOLOGICAL WWTP	✓		2.526.341
4	KÜRKCÜLER (ADANA) ASKİ	Sep.2017	Sep.2019	22.032	23.301	ADVANCED BIOLOGICAL WWTP	✓		5.373.659
5	KARS (CENTRE) DSİ GENERAL DIRECTORATE	Jan.2019	May.21	25.000	50.000	ADVANCED BIOLOGICAL WWTP	✓		6.097.561
6	KOZAN (ADANA) ASKİ	Mar.19	Ongoing	20.017	56.928	ADVANCED BIOLOGICAL WWTP	✓		4.882.195
7	ŞARKÖY (TEKİRDAĞ) TESKİ	Jan.2021	Ongoing	56.000	110.000	ADVANCED BIOLOGICAL WWTP	✓		13.658.537
8	GÜDÜL (ANKARA) ASKİ	Oct.2022	Aug.2024	1.200	2.400	ADVANCED BIOLOGICAL WWTP	✓		292.683
9	PİRSAHİ (AZERBAIJAN)	Jul.2016	May.19	60.000	160.000	ADVANCED BIOLOGICAL WWTP	✓		14.634.146
10	OGUZ (AZERBAIJAN)	Aug.2010	Sep.2012	2.276	3.603	ADVANCED BIOLOGICAL WWTP	✓		555.122
11	TOVUZ (AZERBAIJAN)	Aug.2010	Sep.2012	6.380	8.932	ADVANCED BIOLOGICAL WWTP	✓		1.556.098
12	ZAGATALA (AZERBAIJAN)	Aug.2010	Sep.2012	9.327	12.591	ADVANCED BIOLOGICAL WWTP	✓		2.274.878
13	AGSTAFI (AZERBAIJAN)	Aug.2010	Sep.2012	4.394	6.408	ADVANCED BIOLOGICAL WWTP	✓		1.071.707
14	AGDASH (AZERBAIJAN)	Feb.2008	Jun.2010	25.000	28.000	ADVANCED BIOLOGICAL WWTP	✓		6.097.561
15	GÖYÇAY (AZERBAIJAN)	Feb.2008	Jun.2010	25.000	35.000	ADVANCED BIOLOGICAL WWTP	✓		6.097.561
16	BEYLEGAN (AZERBAIJAN)	Mar.11	May.18	20.000	30.000	ADVANCED BIOLOGICAL WWTP	✓		4.878.049
17	EDİRNE (CENTRE) İLBANK	Nov.2013	Oct.2015	22.041	67.279	ADVANCED BIOLOGICAL WWTP	✓		5.375.854
18	KİLİS (GAZİANTEP) DSİ GENERAL DIRECTORATE	Dec.2018	Apr.2019	23.535	50.442	ADVANCED BIOLOGICAL WWTP	✓		5.740.244
19	ÇİĞLİ (İZMİR) İZSU	Oct.2021	Ongoing	200.000	200.000	RECYCLING PLANT	✓		48.780.488
20	SOUTHWEST (İZMİR) İZSU	Dec.2022	Ongoing	50.000	72.000	CAPACITY INCREASE	✓		12.195.122
21	EAST TREATMENT (BURSA) BUSKİ	Jan.2021	Ongoing	325.000	800.000	PRE-TREATMENT	✓		79.268.293
22	İZNİK (BURSA) BUSKİ	Jan.2021	Ongoing	24.030	53.561	2ND STAGE MBR	✓		5.860.976
23	ORHANGAZI (BURSA) BUSKİ	Jan.2016	Nov.2018	4.352	8.203	2ND STAGE	✓		1.061.463
24	ŞIRNAK (ŞIRNAK CONSULTANCY)	Nov.2019	Jul.2023	12.000	15.000	ADVANCED BIOLOGICAL WWTP		✓	
25	ELBİSTAN (KAHRAMANMARAŞ CONSULTANCY)	Nov.2019	Oct.2022- DNP Ongoing	22.567	30.000	ADVANCED BIOLOGICAL WWTP		✓	
26	ISPARTA CENTRE (DSİ GENERAL DIRECTORATE)	Dec.2016	Oct.2019	120.000	220.000	ADVANCED BIOLOGICAL WWTP	✓		29.268.293
27	AĞLASUN (DSİ GENERAL DIRECTORATE)	Jan.2017	May.19	2.150	4.560	ADVANCED BIOLOGICAL WWTP	✓		524.390
28	AKÇAY-ZÜMRÜTKÖY (TRNC-1) (DSİ GENERAL DIRECTORATE)	Jul.2018	Ongoing	500	1.000	ADVANCED BIOLOGICAL WWTP	✓		121.951
29	GAYRETKÖY (TRNC-1) (DSİ GENERAL DIRECTORATE)	Jul.2018	Ongoing	150	300	ADVANCED BIOLOGICAL WWTP	✓		36.585
30	LEFKE(TRNC-1) (DSİ GENERAL DIRECTORATE)	Jul.2018	Jun.2024	8.100	16.100	ADVANCED BIOLOGICAL WWTP	✓		1.975.610
31	SERHATKÖY-ŞAHİNLER- MEVLEVİ ( TRNC-1) (DSİ GENERAL DIRECTORATE)	Jul.2018	Jun.2024	500	1.000	ADVANCED BIOLOGICAL WWTP	✓		121.951



## ART ENVIRONMENTAL TECHNOLOGIES

## LIST OF WASTEWATER TREATMENT PLANT PROJECTS

	Location	Start Date	Completion Date	Wastewater Quantity Avg. (m <sup>3</sup> /day)	Wastewater Quantity Max. (m <sup>3</sup> /day)	Treatment type	Detailed Design	Müşavirlik	Sulama Alanı (m <sup>2</sup> )
32	YEŞİLIRMAK (TRNC-1) (DSİ GENERAL DIRECTORATE)	Jul.2018	Jun.2024	300	500	ADVANCED BIOLOGICAL WWTP	✓		73.171
33	GELENDOST (DSİ GENERAL DIRECTORATE)	Dec.2016	Oct.2019	3.500	8.000	ADVANCED BIOLOGICAL WWTP	✓		853.659
34	BÜYÜKKABACA (DSİ GENERAL DIRECTORATE)	Dec.2016	Oct.2019	700	1.500	ADVANCED BIOLOGICAL WWTP	✓		170.732
35	BARLA (DSİ GENERAL DIRECTORATE)	Dec.2016	Oct.2019	400	820	ADVANCED BIOLOGICAL WWTP	✓		97.561
36	YALVAÇ (DSİ GENERAL DIRECTORATE)	Dec.2016	Oct.2019	5.100	10.700	ADVANCED BIOLOGICAL WWTP	✓		1.243.902
37	KARACABEY (BUSKİ)	Jan.2016	Nov.2018	50.403	111.411	ADVANCED BIOLOGICAL WWTP	✓		12.293.415
38	ESENCE (BUSKİ)	Jan.2016	Nov.2018	2.184	3.636	ADVANCED BIOLOGICAL WWTP	✓		532.683
39	MESUDIYE (BUSKİ)	Jan.2016	Nov.2018	1.904	3.048	ADVANCED BIOLOGICAL WWTP	✓		464.390
40	YENİKÖY (BUSKİ)	Jan.2016	Nov.2018	4.358	7.108	ADVANCED BIOLOGICAL WWTP	✓		1.062.927
41	KELEŞ (BUSKİ)	Jan.2016	Nov.2018	1.843	3.233	ADVANCED BIOLOGICAL WWTP	✓		449.512
42	BÜYÜKORHAN (BUSKİ)	Jan.2016	Nov.2018	2.074	3.596	ADVANCED BIOLOGICAL WWTP	✓		505.854
43	HARMANCIK (BUSKİ)	Jan.2016	Nov.2018	1.723	3.122	ADVANCED BIOLOGICAL WWTP	✓		420.244
44	İNEGÖL (BUSKİ)	Jan.2016	Nov.2018	149.557	279.752	ADVANCED BIOLOGICAL WWTP	✓		36.477.317
45	KESTEL-GÜRSU (BUSKİ)	Jan.2016	Nov.2018	194.096	388.192	ADVANCED BIOLOGICAL WWTP	✓		47.340.488
46	ULUDAĞ (BUSKİ) ( MBR)	Jan.2016	Nov.2018	2.240	4.489	ADVANCED BIOLOGICAL WWTP	✓		247.561
47	TİRİLYE (BUSKİ)	Jan.2016	Nov.2018	806	1.588	ADVANCED BIOLOGICAL WWTP	✓		196.585
48	ORHANGAZI (BUSKİ)	Jan.2016	Nov.2018	34.272	68.544	ADVANCED BIOLOGICAL WWTP	✓		4.179.512
49	500-PERSON TYPE PROJECT (BUSKİ)	Jan.2016	Nov.2018	156	300	ADVANCED BIOLOGICAL WWTP	✓		38.049
50	700-PERSON TYPE PROJECT (BUSKİ)	Jan.2016	Nov.2018	188	398	ADVANCED BIOLOGICAL WWTP	✓		45.854
51	ARTIFICIAL WETLAND 500 PEOPLE	Jan.2016	Nov.2018	156	300	ADVANCED BIOLOGICAL WWTP	✓		38.049
52	ŞİRİNEVLER (TRNC-2) (DSİ GENERAL DIRECTORATE)	Jul.2020	Ongoing	Paket	150	ADVANCED BIOLOGICAL WWTP	✓		
53	TAŞKENT (TRNC-2) (DSİ GENERAL DIRECTORATE)	Jul.2020	Ongoing	Paket	300	ADVANCED BIOLOGICAL WWTP	✓		
54	DAĞYOLU (TRNC-2) (DSİ GENERAL DIRECTORATE)	Jul.2020	Ongoing	Paket	420	ADVANCED BIOLOGICAL WWTP	✓		
55	YILMAZKÖY (TRNC-2) (DSİ GENERAL DIRECTORATE)	Jul.2020	Ongoing	1.050	2.100	ADVANCED BIOLOGICAL WWTP	✓		
56	İNÖNÜ (TRNC-2) (DSİ GENERAL DIRECTORATE)	Jul.2020	Ongoing	9.700	19.100	ADVANCED BIOLOGICAL WWTP	✓		
57	ALAYKÖY (TRNC-2) (DSİ GENERAL DIRECTORATE)	Jul.2020	Ongoing	3.400	6.800	ADVANCED BIOLOGICAL WWTP	✓		
58	DEĞİRMENLİK (TRNC-2) (DSİ GENERAL DIRECTORATE)	Jul.2020	Ongoing	2.900	11.700	ADVANCED BIOLOGICAL WWTP	✓		
59	DİKMEN (TRNC-2) (DSİ GENERAL DIRECTORATE)	Jul.2020	Ongoing	7.200	14.860	ADVANCED BIOLOGICAL WWTP	✓		
60	ARDAHAN (TRNC-3) (DSİ GENERAL DIRECTORATE)	Jul.2020	Ongoing	Paket	120	ADVANCED BIOLOGICAL WWTP	✓		
61	KUMYALI (TRNC-3) (DSİ GENERAL DIRECTORATE)	Jul.2020	Ongoing	Paket	200	ADVANCED BIOLOGICAL WWTP	✓		
62	BOĞAZIÇI (TRNC-3) (DSİ GENERAL DIRECTORATE)	Jul.2020	Ongoing	Paket	386	ADVANCED BIOLOGICAL WWTP	✓		



## ART ENVIRONMENTAL TECHNOLOGIES

## LIST OF WASTEWATER TREATMENT PLANT PROJECTS

	Location	Start Date	Completion Date	Wastewater Quantity Avg. (m <sup>3</sup> /day)	Wastewater Quantity Max. (m <sup>3</sup> /day)	Treatment type	Detailed Design	Müşavirlik	Sulama Alanı (m <sup>2</sup> )
63	KURTULUŞ (TRNC-3) (DSİ GENERAL DIRECTORATE)	Jul.2020	Ongoing	Paket	150	ADVANCED BIOLOGICAL WWTP	✓		
64	ZİYAMET (TRNC-3) (DSİ GENERAL DIRECTORATE)	Jul.2020	Ongoing	690	1.400	ADVANCED BIOLOGICAL WWTP	✓		
65	DİPKARPAZ (TRNC-3) (DSİ GENERAL DIRECTORATE)	Jul.2020	Ongoing	770	1.600	ADVANCED BIOLOGICAL WWTP	✓		
66	TATLISU (TRNC-3) (DSİ GENERAL DIRECTORATE)	Jul.2020	Ongoing	1.250	2.500	ADVANCED BIOLOGICAL WWTP	✓		
67	KAPLICA (TRNC-3) (DSİ GENERAL DIRECTORATE)	Jul.2020	Ongoing	930	1.900	ADVANCED BIOLOGICAL WWTP	✓		
68	BAFRA (TRNC-3) (DSİ GENERAL DIRECTORATE)	Jul.2020	Ongoing	2.170	4.400	ADVANCED BIOLOGICAL WWTP	✓		
69	YENİ ERENKÖY (TRNC-3) (DSİ GENERAL DIRECTORATE)	Jul.2020	Ongoing	1.500	3.000	ADVANCED BIOLOGICAL WWTP	✓		
70	BÜYÜKKONUK (TRNC-3) (DSİ GENERAL DIRECTORATE)	Jul.2020	Ongoing	580	1.160	ADVANCED BIOLOGICAL WWTP	✓		
71	İSKELE (TRNC-3) (DSİ GENERAL DIRECTORATE)	Jul.2020	Ongoing	9.900	19.700	ADVANCED BIOLOGICAL WWTP	✓		
72	SULUOVA	Nov.2023	Ongoing	10.098		ADVANCED BIOLOGICAL WWTP		✓	
73	MUŞ	Mar.23	Ongoing	35.274		ADVANCED BIOLOGICAL WWTP		✓	
74	KARABAĞLAR (İZMİR) İZSU	Sep.2023	Ongoing	67.000	96.000	ADVANCED BIOLOGICAL WWTP	✓		
75	NEFTÇALA (AZERBAIJAN)	Sep.2022	Feb.2023	8.000	24.000	ADVANCED BIOLOGICAL WWTP	✓		
76	SHURCHI/SURKHANDARYA	Jul.2025	Ongoing	49.500	5.000	MBR	✓		
77	KUMKURGAN / SURKHANDARYA	Jul.2025	Ongoing	34.600	8.000	MBR	✓		
<b>TOTAL</b>				<b>1.982.416,00</b>	<b>3.512.453,00</b>		<b>0,00</b>	<b>0,00</b>	<b>410.481.953</b>

## ART ENVIRONMENTAL TECHNOLOGIES

## LIST OF DRINKING WATER TRANSMISSION LINE AND NETWORK PROJECTS

NO	Location	Start Date	Completion Date	Transmission And Distribution Pipelines (m)	Pumping Station (Number)	Water Reservoir (Quantity)	Tunnel 3500 mm (m)	Water Reservoir (m <sup>3</sup> )	Auxiliary structures (Number)
1	ANTALYA-MANAVGAT-OYMAPINAR DRINKING WATER TRANSMISSION LINES AND DRINKING WATER TREATMENT PLANTS PROJECT	Jun.2017	May.18	360.200,00	3,00	1,00	1.940,00	50.000,00	1.030,00
2	ŞANLIURFA - AKZİYARET DISTRICT DRINKING WATER NETWORK PROJECT	Jul. 2016	Dec. 2016	208.439,00	2,00	4,00		4.000,00	216,00
3	ŞANLIURFA - HALFETİ DISTRICT DRINKING WATER TRANSMISSION AND NETWORK PROJECT	Oct. 2016	Oct. 2018	84.575,00		1,00		3.000,00	31,00
4	ŞANLIURFA - BOZOVA DISTRICT DRINKING WATER TRANSMISSION AND NETWORK PROJECT	Oct. 2016	Oct. 2017	97.448,00	1,00	1,00		200,00	30,00
5	KOSKİ KARAPINAR SUĞLA REGION DRINKING WATER PUMPING AND TRANSMISSION LINES PROJECT	Sep.2019	Dec.2020	149.249,00	8,00	28,00		9.120,00	735,00
6	ADANA - YEDİGÖZE MAIN TRANSMISSION LINES AND RESERVOIRS PROJECT	Feb.2016	Jun.2017	314.038,00	6,00	53,00		13.000,00	939,00
7	NORTHERN ADANA VARIOUS DISTRICTS WATER SUPPLY NETWORK PROJECT	Apr.2015	Feb.2016	209.918,00	9,00	47,00		8.785,00	605,00
8	ADANA - GÖLLER PLATEAU DRINKING WATER PUMPING AND TRANSMISSION LINES PROJECT	Dec. 2016	Jun. 2017	22.002,00	4,00	5,00		2.100,00	60,00
9	ADANA - TUFANBEYLİ DISTRICT NEIGHBORHOODS DRINKING WATER FEASIBILITY AND FINAL NETWORK DESIGN PROJECT	Dec.2014	Apr.2015	5.110,00					-
10	KÖMÜR (ADİYAMAN) DRINKING WATER PUMPING, TRANSMISSION LINE AND NETWORK PROJECT	Apr. 2015	Jun. 2015	52.961,00	2,00	3,00		800,00	8,00
11	BÖLÜKYAYLA (ADİYAMAN) DRINKING WATER PUMPING AND TRANSMISSION LINE PROJECT	Apr.2015	Mar.16	14.537,00	1,00	1,00		100,00	28,00
12	MİLAS DRINKING WATER PROJECT – CONSULTANCY AND SUPERVISION SERVICES	Nov.2017	Oct.2022	20.721,00	1,00	2,00		1.500,00	109,00
13	GERMENCİK - KÖŞK DISTRICTS MAIN TRANSMISSION LINE IMPLEMENTATION PROJECT, AYDIN	Sep.2019	Ongoing	98.443,00	9,00	24,00		16.400,00	325,00
14	UZBEKİSTAN, SURKHANDARYA REGION – TECHNICAL ASSISTANCE FOR THE IMPROVEMENT OF THE DRINKING WATER SUPPLY SYSTEM USING TUPOLANG RESERVOIR WATERS (FS DEVELOPMENT)	Oct.2021	Dec.2022	386.020,00		10,00		206.000,00	738,00
15	ŞANLIURFA - ŞİVEREK DRINKING WATER TRANSMISSION LINE PROJECT DESIGN	Apr.2013	Jul.2016	40.306,00	5,00	7,00		26.500,00	67,00
16	GAZİANTEP DISTRICT NEIGHBORHOODS DRINKING WATER FACILITIES PROJECT DESIGN	May.14	May.16	464.068,00	14,00	21,00		20.650,00	136,00
17	ÇAY-BOLVADİN (AFYON) DRINKING WATER FACILITIES PROJECT DESIGN	Jul.2012	Jun.2015	30.087,00	2,00	7,00		16.100,00	57,00
18	TEKKE (BOLU) DRINKING WATER FACILITIES PROJECT DESIGN	Feb.2015	Jul.2018	69.988,00	2,00	7,00		10.000,00	150,00
19	İZMİR - KARABURUN DISTRICT DRINKING WATER FACILITIES PROJECT DESIGN	Mar.17	May.19	33.689,00	2,00	3,00		2.500,00	90,00
20	ŞANLIURFA BİRECİK-HALFETİ DISTRICTS DRINKING WATER FACILITIES PROJECT DESIGN	Nov.2014	Apr.2018	73.706,00	4,00	5,00		8.300,00	158,00
21	BURSA - ÇINARCIK DAM DRINKING WATER FACILITIES PROJECT DESIGN	May.20	Apr.2024	95.943,00		4,00		31.000,00	208,00
22	KKTC (NORTHERN CYPRUS) WASTEWATER AND DRINKING WATER INFRASTRUCTURE PROJECT PHASE 1	Jul.2018	Jul.2024	349.768,00		4,00		1.900,00	
23	TOKAT - TURHAL WATER SUPPLY TRANSMISSION LINE PROJECT	Feb.2014	Dec.2019	41.404,00		6,00			101,00
24	SİVAS - ŞARKIŞLA DISTRICT DRINKING WATER TRANSMISSION LINE, WATER RESERVOIR AND TREATMENT PLANT PROJECTS	Mar.16	Jun.2017	23.320,00	1,00	3,00			56,00

## ART ENVIRONMENTAL TECHNOLOGIES

## LIST OF DRINKING WATER TRANSMISSION LINE AND NETWORK PROJECTS

NO	Location	Start Date	Completion Date	Transmission And Distribution Pipelines (m)	Pumping Station (Number)	Water Reservoir (Quantity)	Tunnel 3500 mm (m)	Water Reservoir (m <sup>3</sup> )	Auxiliary structures (Number)
25	BURSA - İNEGÖL WATER SUPPLY TRANSMISSION LINE PROJECT	Feb.2017	Jun.2023	11.035,00					24,00
26	ZONGULDAK - ALAPLI DRINKING WATER TRANSMISSION AND TREATMENT PLANT PROJECT	Aug.2021	Ongoing	33.741,00		5,00			119,00
27	KAHTA (ADIYAMAN) DRINKING WATER INTAKE, TRANSMISSION LINES, SERVICE ROAD FINAL PROJECT	Jun.2014	Aug.2014	19.945,00					52,00
28	DÜZCE - AKÇAKOCA DRINKING WATER TRANSMISSION PROJECT DESIGN	Jun.2015	Aug.2016	3.700,00		1,00		1.000,00	10,00
29	ÇORUM (CENTRAL) ŞENDERE POND DRINKING WATER PROJECT PREPARATION	Nov.2011	Dec.2012	121.000,00		15,00		2.000,00	50,00
30	BALPINAR (BATMAN) DRINKING WATER NETWORK PROJECT	Nov.2007	Aug.2008	15.000,00					
31	NİZİP (GAZİANTEP) DRINKING WATER SUPPLY AND CONSTRUCTION PROJECTS	Jan.1999	Jan.2000	175.000,00					
32	VAN (CENTRAL) DRINKING WATER NETWORK PROJECT	Mar.99	Jun.2000	485.000,00					
33	ENEZ (EDİRNE) DRINKING WATER TRANSMISSION LINE PROJECT	Nov.1998	May.99	62.000,00					
34	YALIKÖY (TRABZON) DRINKING WATER NETWORK PROJECT	Jun.1998	Apr.1999	32.000,00					
35	KUTLUKENT (SAMSUN) DRINKING WATER NETWORK PROJECT	Dec.1997	Apr.1998	15.000,00					
36	SARIOĞLAN (KONYA) DRINKING WATER NETWORK PROJECT	Oct.1998	Jul.1997	14.000,00					
37	GÜMÜŞLER (NİĞDE) DRINKING WATER NETWORK PROJECT	Jan.1997	Oct.1997	68.000,00					
38	KARADERE (KAHRAMANMARAŞ) DRINKING WATER NETWORK PROJECT	Dec.1996	Sep.1997	11.000,00					
39	ÇELEMLİ (ADANA) DRINKING WATER NETWORK PROJECT	Sep.1995	May.96	12.000,00					
40	ÇERİKLİ (KIRIKKALE) DRINKING WATER NETWORK PROJECT	Jul.1995	Mar.96	18.000,00					
41	GÜZELYURT (ORDU) TRANSMISSION, RESERVOIR, NETWORK, AND TREATMENT PLANT PROJECT	Feb.1995	Mar.97	14.000,00					
42	ÇALKÖY (TRABZON) DRINKING WATER TRANSMISSION, NETWORK, AND TREATMENT PLANT PROJECT	Jan.1995	Oct.1996	12.000,00					
43	DERİNLİKUYU (NEVŞEHİR) INTAKE, TRANSMISSION, RESERVOIR, NETWORK PROJECTS	Mar.94	Nov.1994	37.000,00		1,00		300,00	8,00
44	YENİÇAĞA (BOLU) INTAKE, TRANSMISSION, RESERVOIR, NETWORK PROJECTS	Jul.1992	Oct.1993	21.000,00		1,00		300,00	6,00
45	REYHANLI (HATAY) DRINKING WATER NETWORK PROJECT	Aug.1992	Jul.1993	95.000,00					
46	BÜYÜKKARİŞTIRAN (KIRKLARELİ) DRINKING WATER NETWORK PROJECT	Jul.1992	Jan.1997	31.500,00					
47	PELİTÖZÜ (ORDU) DRINKING WATER NETWORK PROJECT	Jul.1992	Oct.1993	17.500,00					
48	PINARBAŞI (KASTAMONU) DRINKING WATER NETWORK PROJECT	Oct.1991	Sep.1992	9.500,00					
49	PREPARATION OF IMPLEMENTATION PROJECTS FOR RE-ESTABLISHING WATER SUPPLY AND SEWERAGE SYSTEMS OF OĞUZ, TOVUZ, ZAGATALA AND AĞSTAFA CITIES, INCLUDING ADVANCED BIOLOGICAL WASTEWATER TREATMENT PLANT	Aug.2010	Sep.2012	338.561,00		9,00			20,00
50	CONSULTANCY SERVICES FOR THE REHABILITATION AND EXPANSION OF WATER INTAKE STRUCTURES AND WATER & SEWERAGE NETWORKS IN GÖYÇAY, AĞDAŞ, BEYLEGAN, AĞCABEDİ AND BALAKEN CITIES (PROJECT 2571)	Mar.11	Apr.2017	810.000,00		10,00			70,00

ART ENVIRONMENTAL TECHNOLOGIES									
LIST OF DRINKING WATER TRANSMISSION LINE AND NETWORK PROJECTS									
NO	Location	Start Date	Completion Date	Transmission And Distribution Pipelines (m)	Pumping Station (Number)	Water Reservoir (Quantity)	Tunnel 3500 mm (m)	Water Reservoir (m <sup>3</sup> )	Auxiliary structures (Number)
51	PREPARATION OF IMPLEMENTATION PROJECTS, CONSTRUCTION SUPERVISION, AND ADMINISTRATIVE SUPPORT FOR WATER SUPPLY AND SEWERAGE SYSTEMS OF AĞDAŞ, GÖYÇAY AND NAHCHEVAN CITIES (PROJECTS 2119-2120)	Feb.2008	Jun.2010	477.570,00		8,00			20,00
52	CONSULTANCY SERVICES FOR THE RE-ESTABLISHMENT OF WATER SUPPLY AND SEWERAGE SYSTEMS OF OĞUZ, TOVUZ, ZAGATALA AND AĞSTAFA CITIES	Aug.2010	Sep.2012	338.561,00		9,00			20,00
53	CONSULTANCY SERVICES FOR THE REHABILITATION AND EXPANSION OF WATER INTAKE STRUCTURES AND WATER & SEWERAGE NETWORKS IN GÖYÇAY, AĞDAŞ, BEYLEGAN, AĞCABEDİ AND BALAKEN CITIES (PROJECT 3079)	Mar.11	Mar.14	397.000,00		4,00			50,00
54	PREPARATION OF IMPLEMENTATION PROJECTS FOR THE RE-ESTABLISHMENT OF WATER SUPPLY AND SEWERAGE SYSTEMS IN AGCABEDİ AND BEYLEGAN CITIES	Feb.2014	Aug.2015	341.601,00		6,00			40,00
55	PREPARATION OF IMPLEMENTATION PROJECTS FOR THE RE-ESTABLISHMENT OF WATER SUPPLY AND SEWERAGE SYSTEMS OF SHAMAKHI CITY	Feb.2015	Nov.2015	153.233,00		12,00			30,00
56	PREPARATION OF MAIN TRANSMISSION LINE IMPLEMENTATION PROJECT SUPPLYING WATER FROM ŞEMKİR DAM TO GENÇE CITY (COVERING GENÇE, SAMUH DISTRICT, NABIĞALI VILLAGE AND SURROUNDING VILLAGES), AND GENÇE WATER TREATMENT PLANT IMPLEMENTATION PROJECT	Dec.2010	Oct.2012	27.400,00					
57	İMİŞLİ DRINKING WATER AND SEWERAGE IMPLEMENTATION PROJECT	Sep.2011	Apr.2012	166.396,00		5,00			
58	SHEKI DRINKING WATER AND SEWERAGE IMPLEMENTATION PROJECT	Oct.2014	May.19	332.197,00		21,00			20,00
59	DIYARBAKIR DRINKING WATER TRANSMISSION AND PUMPING LINE PROJECT	Apr. 2016	Oct. 2017	29.312,00	1,00				61,00
60	MALATYA DRINKING WATER TRANSMISSION LINE AND RESERVOIR PROJECT	Jul.2025	Ongoing	71.000,00		37,00		146.300,00	110,00
61	YALOVA ARMUTLU KARADERE DRINKING WATER TRANSMISSION AND TREATMENT PLANT PROJECT	Jan.2025	Ongoing	14.000,00					10,00
62	DEVELOPMENT OF DETAILED DESIGN AND TENDER DOCUMENTS FOR THE CONSTRUCTION AND UPGRADE OF THE WATER SUPPLY SYSTEM IN JARKURGAN CITY OF SURKHANDARYA REGION	Jul.2025	Ongoing	45.700,00	1,00	2,00		2.400,00	4,00
63	DEVELOPMENT OF DETAILED DESIGN AND TENDER DOCUMENTS FOR THE CONSTRUCTION AND UPGRADE OF THE WATER SUPPLY SYSTEM AND WASTEWATER TREATMENT SYSTEM IN UZUN	Jul.2025	Ongoing	102.000,00					
64	DEVELOPMENT OF DETAILED DESIGN AND TENDER DOCUMENTS FOR THE CONSTRUCTION AND UPGRADE OF THE WATER SUPPLY SYSTEM IN SARIOZIYA CITY OF SURKHANDARYA REGION CITY OF SURKHANDARYA REGION	Jul.2025	Ongoing	78.500,00	3,00				
65	DEVELOPMENT OF DETAILED DESIGN AND TENDER DOCUMENTS FOR THE CONSTRUCTION AND UPGRADE OF THE WATER SUPPLY SYSTEM AND WASTEWATER TREATMENT SYSTEM IN KUMKURGAN CITY OF SURKHANDARYA REGION	Jul.2025	Ongoing	45.500,00	5,00	1,00		4.220,00	
<b>TOPLAM</b>				<b>8.348.392,00</b>	<b>86,00</b>	<b>394,00</b>	<b>1.940,00</b>	<b>588.475,00</b>	<b>6.601,00</b>

## ART ENVIRONMENTAL TECHNOLOGIES

## SEWERAGE PROJECT LIST

NO	Location	Start Date	Completion Date	Wastewater Collector And Network Pipe (m)	Capacity (m <sup>3</sup> /day)	Number Of Chimneys (Units)	Pumping Station (Number)
1	TRNC WASTEWATER AND DRINKING WATER INFRASTRUCTURE PROJECT – PHASE 1	Jul.2018	Jul.2024	235.991,00	14.969,00	6.451,00	4,00
2	TRNC WASTEWATER AND DRINKING WATER INFRASTRUCTURE PROJECT – PHASE 2	Jul.2020	Ongoing	511.090,00	23.178,00	10.222,00	2,00
3	TRNC WASTEWATER AND DRINKING WATER INFRASTRUCTURE PROJECT – PHASE 3	Jul.2020	Ongoing	943.881,00	35.804,00	18.878,00	15,00
4	BURDUR KARACAÖREN LAKE BASIN SEWERAGE COLLECTOR AND WASTEWATER TREATMENT PLANT PROJECT	Jan.2017	May.19	3.296,00	122.150,00	60,00	
5	PREPARATION OF IMPLEMENTATION PROJECTS AND TENDER DOCUMENTS FOR 14 WASTEWATER TREATMENT PLANTS IN VARIOUS DISTRICTS OF BURSA PROVINCE	Jan.2016	Nov.2018	826,00	105.840,00		2,00
6	FINAL PROJECTS FOR WASTEWATER AND STORMWATER IN THE DISTRICTS OF ÇAMLIDERE AND KIZILCAHAMAM AND THEIR AFFILIATED NEIGHBORHOODS (ANKARA)	Jul.2020	Feb.2022	373.498,00		19.571,00	
7	WASTEWATER COLLECTION AND TREATMENT PLANT PROJECT FOR KARS	Jan.2019	May.21	1.500,00		20,00	
8	PREPARATION OF IMPLEMENTATION PROJECTS FOR THE RECONSTRUCTION OF THE WATER SUPPLY AND SEWERAGE SYSTEMS AND ADVANCED BIOLOGICAL WASTEWATER TREATMENT PLANT FOR THE CITIES OF OGUZ, TOVUZ, ZAGATALA, AND AGSTAFI	Aug.2010	Sep.2012	315.870,00	28.000,00	6.300,00	
9	ISPARTA EĞİRDİR LAKE BASIN WASTEWATER COLLECTION AND TREATMENT PLANT PROJECT	Dec.2016	Oct.2019	134.482,00	13.140,00	2.690,00	
10	IMPLEMENTATION PROJECT PREPARATION, CONSTRUCTION SUPERVISION AND ADMINISTRATIVE SUPPORT FOR THE WATER SUPPLY AND SEWERAGE SYSTEMS OF AGDASH, GOYCHAY, AND NAKHCHIVAN CITIES (2119–20)	Feb.2008	Jun.2010	407.403,00	17.600,00	8.150,00	
11	CONSULTANCY SERVICES FOR THE REHABILITATION AND EXPANSION WORKS OF WATER INTAKE STRUCTURES AND SEWER NETWORKS IN GOYCHAY, AGDASH, BEYLEQAN, AGJABEDI AND BALAKAN CITIES (3079)	Mar.11	Mar.14	366.000,00	30.000,00	7.350,00	
12	CONSULTANCY SERVICES FOR THE RECONSTRUCTION OF WATER SUPPLY AND SEWERAGE SYSTEMS IN THE CITIES OF OGUZ, TOVUZ, ZAGATALA AND AGSTAFI	Aug.2010	Sep.2012	315.870,00	28.000,00	6.300,00	
13	CONSULTANCY SERVICES FOR THE REHABILITATION AND EXPANSION WORKS OF WATER INTAKE STRUCTURES AND SEWER NETWORKS IN GOYCHAY, AGDASH, BEYLEQAN, AGJABEDI AND BALAKAN CITIES (2571)	Mar.11	Mar.14	783.000,00	43.500,00	15.660,00	
14	PREPARATION OF IMPLEMENTATION PROJECTS FOR THE RECONSTRUCTION OF WATER SUPPLY AND SEWERAGE SYSTEMS IN AGJABEDI AND BEYLEQAN CITIES	Feb.2014	Aug.2015	307.748,00	22.150,00	6.150,00	1,00
15	PREPARATION OF IMPLEMENTATION PROJECTS FOR THE RECONSTRUCTION OF WATER SUPPLY AND SEWERAGE SYSTEMS IN THE CITY OF SHAMAKHI	Feb.2015	Dec.2015	107.439,00	8.200,00	2.150,00	1,00
16	İMİŞLİ DRINKING WATER AND SEWERAGE IMPLEMENTATION PROJECTS	Sep.2011	Apr.2012	147.576,00	9.100,00	2.950,00	1,00
17	SHEKİ DRINKING WATER AND SEWERAGE IMPLEMENTATION PROJECTS	Oct.2014	May.19	293.535,00	15.800,00	5.870,00	1,00
18	KILBASAN (KARAMAN) SEWERAGE NETWORK APPLICATION PROJECT	Nov.2000	Mar.02	60.000,00		1.200,00	
19	YEŞİLHİSAR (KAYSERİ) SEWERAGE NETWORK APPLICATION PROJECT	Aug.2000	May.02	30.000,00		600,00	
20	CONSULTANCY SERVICES FOR THE PREPARATION OF MASTER PLANS, FEASIBILITY STUDIES, AND PROJECTS FOR DRINKING WATER AND SEWERAGE FOR SETTLEMENT AREAS OF GAZİANTEP PROVINCE	May.14	May.16	296.834,00		20.222,00	4,00
21	GÜLLÜK (MUĞLA) SEWERAGE NETWORK APPLICATION PROJECT	Dec.1997	Feb.1999	45.000,00		900,00	
22	UZUNGÖL (TRABZON) SEWERAGE NETWORK APPLICATION PROJECT	Mar.95	Apr.1996	17.000,00		340,00	
23	1998/IV. SECTION (ALTINDAĞ DISTRICT) WASTEWATER AND STORMWATER PROJECT	Mar.98	Nov.1998				
24	ŞIRNAK WASTEWATER TREATMENT PLANT PROJECT – TECHNICAL ASSISTANCE AND SUPERVISION WORK	Nov.2019	Ongoing				
25	ELBİSTAN WASTEWATER PROJECT – TECHNICAL ASSISTANCE AND SUPERVISION WORK	Nov.2019	Oct.2022	33.050,00	24.600,00	862,00	
26	NORTHERN LEFKOŞA PUMPING AND GRAVITY SEWER LINES PROJECT	May.18	Dec.2021	13.445,00	106.314,00	124,00	4,00

## ART ENVIRONMENTAL TECHNOLOGIES

## SEWERAGE PROJECT LIST

NO	Location	Start Date	Completion Date	Wastewater Collector And Network Pipe (m)	Capacity (m <sup>3</sup> /day)	Number Of Chimneys (Units)	Pumping Station (Number)
27	(AZERBAIJAN) PIRSAGI WWTP AND DDD FACILITY IMPLEMENTATION PROJECTS (DN 1600MM)	Jul.2016	Şub.19	1.700,00	60.000,00		
28	DOĞANKENT-KÜRKÇÜLER (ADANA) WASTEWATER TREATMENT PLANT AND SEWERAGE NETWORK FINAL PROJECT PREPARATION SERVICE			32.420,00	32.500,00	335,00	7,00
29	ŞANLIURFA YUKARIGÖKLÜ SEWERAGE FACILITIES PROJECT PREPARATION	Sep.2016	Oct.2016	79.838,00		3.638,00	3,00
30	DEVELOPMENT OF DETAILED DESIGN AND TENDER DOCUMENTS FOR THE CONSTRUCTION AND UPGRADE OF THE WATER SUPPLY SYSTEM IN JARKURGAN CITY OF SURKHANDARYA REGION	Jul.2025	Ongoing	45.700,00	1,00	2,00	
31	CONSULTING SERVICES FOR DEVELOPMENT OF DETAILED DESIGN AND TENDER DOCUMENTS FOR THE CONSTRUCTION AND UPGRADE OF THE SEWERAGE SYSTEM IN SHURCHI CITY OF SURKHANDARYA REGION	Jul.2025	Ongoing	49.500,00	5.000,00		3,00
32	DEVELOPMENT OF DETAILED DESIGN AND TENDER DOCUMENTS FOR THE CONSTRUCTION AND UPGRADE OF THE WATER SUPPLY SYSTEM AND WASTEWATER TREATMENT SYSTEM IN UZUN	Jul.2025	Ongoing	54.000,00			
33	DEVELOPMENT OF DETAILED DESIGN AND TENDER DOCUMENTS FOR THE CONSTRUCTION AND UPGRADE OF THE WATER SUPPLY SYSTEM IN SARIOZIYA CITY OF SURKHANDARYA REGION CITY OF SURKHANDARYA REGION	Jul.2025	Ongoing	54.300,00			
34	DEVELOPMENT OF DETAILED DESIGN AND TENDER DOCUMENTS FOR THE CONSTRUCTION AND UPGRADE OF THE WATER SUPPLY SYSTEM AND WASTEWATER TREATMENT SYSTEM IN KUMKURGAN CITY OF SURKHANDARYA REGION	Jul.2025	Ongoing	34.600,00	8.000,00		
TOTAL				<b>6.075.481,00</b>	<b>753.846,00</b>	<b>146.995,00</b>	<b>48,00</b>



**ART ENVIRONMENTAL TECHNOLOGIES****LIST OF STORMWATER PROJECTS**

<b>NO</b>	<b>Location</b>	<b>Start Date</b>	<b>Completion Date</b>	<b>Rainwater Collector And Network Line (m)</b>	<b>Number Of Chimneys (Units)</b>	<b>Promotion Centre (Number)</b>
<b>1</b>	FINAL WASTEWATER AND STORMWATER PROJECTS FOR THE DISTRICTS OF ÇAMLIDERE AND KIZILCAHAMAM AND THEIR AFFILIATED NEIGHBORHOODS (ANKARA)	Jun.2020	Mar.22	768,00	21,00	
<b>2</b>	WASTEWATER AND STORMWATER PROJECT – 1998/IV SECTION (ALTINDAĞ DISTRICT)	Mar.98	Nov.1998			
<b>3</b>	SULUOVA STORMWATER AND WASTEWATER PROJECT	Nov.2023	Ongoing			
<b>4</b>	PROJECT PREPARATION FOR STORMWATER FACILITIES IN KARAKÖPRÜ (ŞANLIURFA)	Jul. 2016	Aug.2016	24.075,00	445,00	
<b>TOTAL</b>				<b>24.843,00</b>	<b>466,00</b>	

## Main Office

### Address

Çukurambar Mah. Muhsin Yazıcıođlu Cad.  
1480. Sok. 2A Blok Kat.9 No.33  
06510 Çankaya, Ankara

### Phone

+90 (312) 229 78 54

### Fax

+90 (312) 229 96 78

### Email

[infoart@artltd.com.tr](mailto:infoart@artltd.com.tr)

## Azerbaijan Branch

### Address

Azadliq Street No.192  
Baku, AZERBAIJAN

### Phone

+99 (450) 776 56 42

## Uzbekistan Branch

### Address

Abdulla Qahhor 4,1  
Taşkent, ÖZBEKİSTAN

## Pakistan Branch

### Address

C-3, Jhelum Block, Green Forts-II  
Lahore, PAKISTAN

### Phone

+ 92 (42) 371 92 547

## Consultancy Offices

Suluova Consultancy Office/ AMASYA  
Konya Consultancy Office/ KONYA  
Muş Consultancy Office/ MUŞ





# ENVIRONMENTAL TECHNOLOGIES

Çukurambar Mahallesi Muhsin Yazıcıoğlu Caddesi

1480. Sokak No:2 A Blok No:33 Besa Kule

ÇANKAYA /ANKARA/TÜRKİYE

+90 312 229 78 54

