

# **PROJECT COMPENDIUM**

2025



Akar-Su, founded in 1993, is providing engineering and consulting services for over 30 years in the field of Water and Soil Resources, has taken significant responsibilities in projects of rural and urban development of water and soil resources which especially have a vital impact on social and economic growth in Turkey and the region, in all design phases including master plan, preliminary study, feasibility study and final design studies.

We believe that in Turkey and all around the world, our quality of life is deeply rooted in our surrounding environments. A healthy ecological order is a must for human health, social and economic development as well as a sustainable ecosystem. This is why we are keenly aware of the impact of each of our projects on local communities. Our developmental projects improve both quality of life and the sustainability of the local environment. Therefore, as the engineers of AKAR-SU, we base our designs and studies on sustainability, innovative, integrity and scientifically robustness.

With over 30 years of experience since the foundation of AKAR-SU; we have grown to over 35 skilled employees, successfully finished over 100 projects and we are managing over 20 ongoing projects in all regions of Turkey today. One of the most important projects of Turkey in terms of water resources projection, "The Impacts of Climate Change on Water Resources (for all 25 basins of Turkey)", "Sakarya Basin River Management Plan", "Climate Change Adaptation in Water Resources Project" and master plans of 3 water basins out of 25 in Turkey are among our major projects.

### Water and Soil Resources

Akar-Su has been providing engineering and consulting services for over 30 years in the field of Water and Soil Resources. Within that period, our company has undertaken significant responsibilities in projects of rural and urban development of water and soil resources which especially have a vital impact on social and economic growth in Turkey and the region.

Our company operates in all design phases including master plan, preliminary study, feasibility study and final design studies.

Our company manages projects;

-On local level, such as dam and irrigation network design, drinking water supply and hydro-dynamic river analysis;

-On basin scale, projects like basin master plans, basin flood and sediment control plans;

-On country & regional level projects, such as "The Impacts of Climate Change on Water Resources".

Our company operates projects in the following Water and Soil Resources

-Water Supply and Flood Hydrology

-Soil Classification and Drainage

Field Investigation Studies such as:

-Agricultural Economy

-Geological, Geotechnical, Hydrogeological, Groundwater Potential and Construction Material Studies

-Dam Design

Irrigation and Drinking Water Network Design:

- Weir and HEPP Design
- River and Flood Management Studies
- Erosion and Sediment Management Studies
- Pumping Station Design
- Climate Studies
- Environmental Impact Studies
- We aim to produce sustainable, innovative, integrative and scientifically robust solutions for our projects that vary all along the hydrological cycle.

### **River Basin Management Plans**

Akar-Su provides services under Water Framework Directive of European Union and relative legislations of Turkey that in in force for river management plans. Preparation of River Basin Management Plan and Determination of Goals for 'Achieving Good Water Status' are:

- To know the underground and aboveground potential of the basin,
- Accurate determination of water quality and quantity,
- Determining the sources of pressure and its effects,
- Analysis of monitoring values,
- Knowing the amount of water use in the basin and the habits of water users,
- Considering the studies carried out to determine the impact of climate change on water resources,
- Forward-looking projections such as population, economic development and water use should be taken into account in planning.

#### Transportation

Akar-Su Engineering and Consulting Co. provides planning, final design and construction monitoring & controlling services for private businesses, government institutions, local authorities and municipalities.

In the design stage of transportation structures, we offer:

Alternative route studies, land surveying, field study, economic analysis and feasibility studies; preparation of geological and geotechnical reports of transportation structures, such as roads and highways, tunnels, bridges, intersections and related engineering structures; preparation of tender documents, cost estimations, etc.

In the construction stage of transportation structures, we offer:

Final design supervision; monitoring services to ensure adherence to construction contract; construction material sample tests and related reports preparation; progress payment document preparation; technical support for detailed designs and final reports.

## Urban Infrastructure

Akar-Su Engineering and Consulting Co. provides planning, final design and consulting services for private businesses, local authorities and municipalities in the Urban Infrastructure field.

Some of the topics of Urban Infrastructure Planning are;

- Urban Water Supply and Distribution
- Water Treatment Plant Design
- Waste Water and Sewerage System
- Urban Flood Analysis and Control
- Preparation of Emergency Action Plans

Project Title		IMPACT OF CLIMATE CHANGE ON WATER RESOURCES PROJECT					
Project Location	Overall project	Proportion carried	Name of client	Dates	Name of consortium members		
Toject Location	value	out (%)	Name of cheft	(start/end)	(if any)		
	4.870.000,00 TL		Company 1 Disconterents of Weter	18.12.2013			
Turkey	(1.733.096,09€)*	100	Management Ankara	-	-		
	(2.387.254,90 \$)**		Management - Ankara	25.11.2016			
Detailed description of	f project			Types of se	rvices provided		
	Impact of Climate	change on Water Resor	urces Project consists of following	The Overa	ll Objective of the Project:		
CTINI GENEL MUD	works:			> Pre	eparation of climate change scenarios		
2 A	1 Preparation and	reporting of climate chan	ga projections in all 25 basins	> De	termination of the effects of climate change		
3		reporting of chillate chair	scenarios on surface waters				
	2.Determination and reporting of the change in underground water potential and surface water levels in all basins,				<ul> <li>Determination of the effects of climate change scenarios on groundwater</li> <li>Adoptation to climate change scenarios</li> </ul>		
	3.Projection and r	eporting of water availability change in all basins utilizing		Adaptation to climate change scenarios.			
	hydrologic and hy	draulic modelling	,	specific Or	jectives of the Project.		
	nyurologic and ny	draune moderning,		> Pro	eparation of climate change projections for the		
4.Industrial impact ana	lysis in 3 basins in term	ns of climate change for	water resources (drinking water,	25 > Cr	niver basins covering Turkey		
agriculture, industry, ec	osystem main sectors) an	d preparation of Adaptati	on Activities Report,		vering Turkey		
5.Preparation of the "	Climate Water Database	" and the website when	re the output climate projections,	> De	tection of changes in surface water levels in 25		
hydrologic projections	all collected data and res	ults are presented to publ	ic	riv	er basins covering Turkey		
nyulologie projections,	hydrologic projections, an confected data and results are presented to public.			> 25	river basins covering the water potential of		
		Tu	rkey modelling of work to be done				
				> Th	e study of sectoral impact analysis in 3		
				wa	tersheds in terms of water resources of climate		
				cha	ange.		

\*4.870.000,00 TL is 1.733.096,09 € according to exchange rate 2,81 Euro/TL on 18.12.2013. \*\*4.870.000,00 TL is 2.387.254,90 \$ according to exchange rate 2,04 USD/TL on 18.12.2013.

Project Title	WATER RESOURCES CLIMATE CHANGE ADAPTATION PROJECT CONSULTANCY SERVICE PROCUREMENT						
Project Location	Overall project value	Proportion carried out (%)	Name of client	Dates (start/end)	Name of consortium members (if any)		
Turkey	1.880.000,00 TL (200.473,45 €)* (236.748,98 \$)**	50	General Directorate of Water Management - Ankara	25.03.2021 - 20.11.2023	İo Çevre Çözümleri		
Detailed description o	f project			Types of ser	vices provided		
The "Project on Climate Change Adaptation in Water Resources" covering all provinces with 30 metropolitan municipalities in Turkey includes the following activities: 1- Detailed analysis of "rainwater harvesting", "use of gray water" and "pricing of water" adaptation activities, 2- Conducting cost-benefit, technical feasibility and sustainability analyses for at			<ul> <li>Rain</li> <li>Cos</li> <li>Rep</li> <li>Ben</li> <li>Wat</li> <li>Pilo</li> </ul>	nwater Harvesting report t Benefit Analysis of Rainwater Harvesting ort on the Use of Gray Water efit Cost Analysis of the Use of Gray Water ter Pricing report t Project Design Studies			
micro-areas for the u	se of gray water in a	ccordance with the inte	ended use; developing incentives and				
recommendations to en	sure the dissemination o	f these activities,					
<ul> <li>3- Making "full cost-based pricing" calculations that include all costs related to water use within the scope of water pricing,</li> <li>4- Carrying out 10 planning and project design studies for examples from the field on rainwater harvesting and the use of gray water,</li> </ul>							
5- Organizing training	and awareness raising ac	uviues.					

\*1.880.000,00 TL is 200.473,45 € according to exchange rate 9,37 Euro/TL on 18.12.2013. \*\*1.880.000,00 TL is 236.748,98 \$ according to exchange rate 7,94 USD/TL on 18.12.2013.

Project Title	BÜYÜK MENDERES BASIN MASTER PLAN REPORT						
Project Location	Overall project value	Proportion carried out (%)	Name of client	Dates (start/end)	Name of consortium members (if any)		
Turkey	6.330.000,00 TL (2.705.128,21 €)* (3.516.666,67 \$)**	49	General Directorate of State Hydraulic Works-Ankara	11.03.2013 - 11.05.2018	Alter Uluslararası Müh. Müş. Hiz. Ltd. Şti		
Detailed description	on of project			Types of services provided			
<ul> <li>Solution r</li> <li>Solution r</li> <li>Industrial</li> <li>Energy p potentials</li> <li>Determina for fulfilli</li> <li>were researched, te and "Basin Master"</li> <li>In the surface water weirs, which are in Evaluating the water water can be suppli</li> </ul>	Within the Determ Undergroup Land av Land av Determ Openir irrigable to ecommendations for are water needs, roduction facilities and ation of water rights, ry design of dams, regunder ation of water rights, ry design of dams, regunder ation of water rights, ry design of dams, regunder potential, it was deterned and 913 GWh energy	scope of Buyuk Mend ination of current and p and and spring), vailability of the basin, ination of irrigation po- eg the lands that was irrigated farming, eas with insufficient du l calculation of instal lators, tunnels, pits, ga water and irrigation way and environmentally red at the end of the w Master Plan Report, 23 led design or construct mined that 358 865 ha y with a total installed	leres Basin Master Plan works; planned water uses from water sources (surface, land use, tential and need to irrigate irrigation areas, determined as technically and economically rainage, determination of drinking, use led capacities with yearly energy production alleries, irrigation, drainage and flood facilities ter and flood damages suitable ones were proposed for construction, ork. 66 dams / reservoirs, 60 HEPPs and 48 diversion ion phases, were examined. area can be irrigated 411.89 hm3/year drinking power of 351 MW may be generated	<ul> <li>Hydrology Master PI</li> <li>Agricultural Econom</li> <li>Water Rights Master</li> <li>Soil resources and La</li> <li>Flood Master Plan R</li> <li>Erosion Master Plan R</li> <li>Erosion Master Plan</li> <li>Hydrogeology Master</li> <li>Geotechnical Master</li> <li>Natural Building Ma</li> <li>Water Quality Master</li> <li>Population Projection Plan Report</li> <li>Energy Generation F</li> <li>Master Plan Report</li> <li>GIS Study</li> </ul>	lan Report iics Master Plan Report Plan Report and Use Master Plan Report eport Report er Plan Report Plan Report terials Master Plan Report r Plan Report n and Water Needs Master facilities Master Plan Report Report		

\*6.330.000,00 TL is 2.705.128,21 € according to exchange rate 2,34 Euro/TL on 11.03.2013. \*\*6.330.000,00 TL is 3.516.666,67 \$ according to exchange rate 1,8 USD/TL on 11.03.2013.

Project Title	WESTERN BLACK SEA BASIN MASTER PLAN REPORT					
Project Location	Overall project	Proportion carried	Name of client	Dates	Name of consortium members	
	value	out (%)		(start/end)	(if any)	
Turkey	1.970.000,00 TL (691.228,07 €)* (849.137,93 \$)**	51	General Directorate of State Hydraulic Works-Ankara	18.12.2014 - 04.10.2018	Hidromark Mühendislik Müşavirlik Ltd. Şti	
Detailed description of	f project			Types of ser	rvices provided	
	Within the scor	be of Western Black Sea H	Basin Master Plan works;	> Hy	drology Master Plan Report	
	• Determinatio	on of current and planne	ed water uses from water sources	≻ Ag	ricultural Economics Master Plan Report	
	(surface, underg	ground and spring),		≻ Wa	ter Rights Master Plan Report	
	Land availab	ility of the basin, land use	2,	> Soi	l resources and Land use Master Plan Report	
	Determinatio	on of irrigation potential a	nd need to irrigate irrigation areas,	> Flo	od Master Plan Report	
	• Opening the	ands determined as tech	inically and economically irrigable	Frosion Master Plan Report		
	Solution re	commendations for an	eas with insufficient drainage.	Hydrogeology Master Plan Report		
determination	of drinking, use	••••••••••••••••••••••••••••••••••••••			atogeology Muster Plan Depert	
Industrial wat	er needs,			> Geo	Stechnical Master Plan Report	
Energy produ	ction facilities and calcu	lation of installed capaci	ties with yearly energy production	> Nat	tural Building Materials Master Plan Report	
potentials,				≻ Wa	ter Quality Master Plan Report	
Determination	n of water rights,			> Pop	pulation Projection and Water Needs Master	
Preliminary d	lesign of dams, regulate	ors, tunnels, pits, galleri	es, irrigation, drainage and flood	Pla	n Report	
lacinities for it	hnically economically	and environmentally si	uitable ones were proposed for	> Ene	ergy Generation Facilities Master Plan Report	
construction, and "Basin	n Master Plan Report" w	as prepared at the end of t	the work.	≻ Ma	ster Plan Interim Report	
In the surface water potential studies of the Master Plan Report, 94 dams / reservoirs, 176 HEPPs and 70			≻ Ma	ster Plan Report		
diversion weirs, which are in existing, planned, detailed design or construction phases, were examined.			> GI	S Study		
Evaluating the water p	otential, it was determir	ned that 60 548 ha area	can be irrigated, 269.47 hm3/year		Study	
drinking water can be	supplied and 5873 GWh	energy with a total insta	alled power of 1 872 MW may be			
generated.						

\*1.970.000,00 TL is 691.228,07 € according to exchange rate 2,85 Euro/TL on 18.12.2014 . \*\*1.970.000,00 TL is 849.137,93 \$ according to exchange rate 2,32 USD/TL on 18.12.2014 .

Project Title	ARAS BASIN MASTER PLAN REPORT					
Project Location	Overall project value	Proportion carried out (%)	Name of client	Dates (start/end)	Name of consortium members (if any)	
Turkey	1.705.000,00 TL (587.931,03 €)* (804.245,28 \$)**	100	General Directorate of State Hydraulic Works-Ankara	30.06.2014  21.08.2017	-	
Detailed description of	f project			Types of ser	rvices provided	
<ul> <li>(804.245,28 \$)**</li> <li>Detailed description of project</li> <li>Within the scope of Aras Basin Master Plan works; <ul> <li>Determination of current and planned water uses from water sources (surface, underground and spring),</li> <li>Land availability of the basin, land use,</li> <li>Determination of irrigation potential and need to irrigate irrigation areas,</li> <li>Opening the lands determined as technically and economically irrigable to irrigated farming, problems</li> <li>Solution recommendations for areas with insufficient drainage, determination of drinking, use</li> <li>Industrial water needs,</li> <li>Energy production facilities and calculation of installed capacities with yearly energy production potentials,</li> <li>Preliminary design of dams, regulators, tunnels, pits, galleries, irrigation, drainage and flood facilities for fulfilling needs drinking-use water and irrigation water and flood damages</li> <li>were researched, technically, economically and environmentally suitable ones were proposed for construction, and "Basin Master Plan Report" was prepared at the end of the work.</li> </ul> </li> <li>In the surface water potential studies of the Master Plan Report, 72 dams / reservoirs, 74 HEPPs and 71 diversion weirs, which are in existing, planned, detailed design or construction phases, were examined.</li> <li>Evaluating the water potential, it was determined that 430 784 ha area can be irrigated 35.83 hm3/year drinking water can be supplied and 4239 GWh energy from 72 HEPPs with a total installed power of 1383 MW may be generated.</li> </ul>					drology Master Plan Report ricultural Economics Master Plan Report atter Rights Master Plan Report al resources and Land Use Master Plan Report ood Master Plan Report ood Master Plan Report drogeology Master Plan Report otechnical Master Plan Report tural Building Materials Master Plan Report tural Building Materials Master Plan Report opulation Projection and Water Needs Master n Report ergy Generation Facilities Master Plan Report aster Plan Interim Report aster Plan Report S Study	

\*1.705.000,00 TL is 587.931,03 € according to exchange rate 2,9 Euro/TL on 30.06.2014. \*\*1.705.000,00 TL is 804.245,28 \$ according to exchange rate 2,12 USD/TL on 30.06.2014.

Project Title	PREPARATION OF THE MASTER PLAN REPORT FOR THE DRINKING WATER SUPPLY OF İZMIR AND MAN					
			PROVINCIAL AND DISTRICT C	CENTERS		
Project Location	Overall project value	Proportion carried out (%)	Name of client	Dates (start/end)	Name of consortium members (if any)	
Turkey	1.720.000,00 TL (338.869,51 €)* (404.021,42 \$)**	100	State Hydraulic Work (DSİ) – 2 <sup>nd</sup> Regional Directory – İzmir	11.05.2018 - 24.02.2023	-	
Detailed description of	f project			Types of se	rvices provided	
<ul> <li>Izmir - Manisa Provincial and District Drinking Water Supply Master Plan Report;</li> <li>Identification of existing and probable water uses of water resources (surface, underground and spring);</li> <li>Determination of drinking and industrial water needs,</li> <li>Defining water rights,</li> <li>Meeting drinking and communal water needs</li> </ul>			<ul> <li>Get</li> <li>Get</li> <li>Get</li> <li>Get</li> <li>Get</li> <li>Get</li> <li>Ref</li> <li>Ref</li> <li>Percent</li> </ul>	eneral Plan Report on Hydrology eneral Plan Report on Water Rights ienation Master Plan Report oundwater Master Plan Report eotechnical Master Plan Report atural Construction Materials General Plan eport pulation Forecast and Water Needs Master		
Dams, regulators, tunn	els, wells, galleries, irrig	ation, drainage and flood	facilities to prevent flood damage		putation Porecast and water Needs Master	
At the end of the study, technically, economical	a "Master Plan Report" v ly and ecologically feasib	vas prepared, proposing tl le.	ne construction of those considered	PI ➤ Ge	eneral Plan Interim Report	
The Master Plan Report phase of surface water p	examines 34 items / dam potential surveys.	s/ regulators in the currer	nt / planned / project / construction	> Pr	eneral Plan Report	
Taking into account the water potential of the proposed projects, it was determined that it is possible to irrigate 40,360 hectares, provide 445.4 hm3 / year of drinking water and produce 21 GWh of energy with a total installed capacity of 5 MW.			r≯ G	S Surveys		
Within the framework o / year was provided with	f the General Plan Report n drinking water.	t, 33 items / pools / regula	tors were proposed and 253.13 hm3			

\*1.720.000,00 TL is 338.869,51 € according to exchange rate 5,07 Euro/TL on 11.05.2018 \*\*1.720.000,00 TL is 404.021,42 \$ according to exchange rate 4,25 USD/TL on 11.05.2018

Project Title		EUPHRATES AND TIGRIS BASINS FLOOD MANAGEMENT PLAN				
Project Location	Overall project value	Proportion carried out (%)	Name of client	Dates (start/end)	Name of consortium members (if any)	
Turkey	6.740.000,00 TL (1.631.961,25 €)* (1.914.772,72 \$)**	50	General Directorate of Water Management - Ankara	18.08.2017 - 01.09.2020	Su-İş Proje Mühendislik ve Müşavirlik Ltd. Şti.	
Detailed description of	f project			Types of ser	rvices provided	
of the flood managemen Increasing public awar Ensuring more efficient To clearly determine ro By achieving these objet Supporting sustainable Maximizing the benefit Reducing the loss of lit Protecting the environm	This plan aims to ac •Reducing the negation heritage, social and •Planning flood mar •Ensuring that the orduring and after the other the second	hieve the following object tive impacts of floods on h economic activity agement at basin scale rganizations work togeth flood based on the instit es astitutions and organization and Tigris Basins ;	ettives: numan health, environment, cultural er in a coordinated manner before, utional powers and responsibilities	<ul> <li>&gt; Def</li> <li>&gt; Pre</li> <li>&gt; Flo</li> <li>&gt; Apj</li> <li>&gt; Pre</li> <li>soc</li> <li>hist</li> <li>con</li> <li>stud</li> <li>&gt; Coi</li> <li>Riss</li> <li>&gt; Und</li> <li>Bass</li> <li>&gt; Flo</li> <li>&gt; Pre</li> <li>&gt; Pre</li> <li>&gt; Pre</li> <li>&gt; Pre</li> <li>&gt; Pre</li> <li>&gt; Pre</li> <li>&gt; Flo</li> <li>&gt; Pre</li> <li>&gt; Flo</li> <li>&gt; Pre</li> <li>&gt; Flo</li> <li>&gt; Pre</li> <li>&gt; Flo</li> <li>&gt; Pre</li> <li>&gt; Pre</li> <li>&gt; Pre</li> <li>&gt; Flo</li> <li>&gt; Pre</li> <li>&gt; Pre</li> <li>&gt; Pre</li> <li>&gt; Flo</li> <li>&gt; Pre</li> <li>&gt; Pre</li> <li>&gt; Pre</li> <li>&gt; Pre</li> <li>&gt; Pre</li> <li>&gt; Pre</li> </ul>	finition of the basin -evaluation of flood risk od hazard maps od risk maps od risk evaluation od management activities to mitigate the flood as od Mitigation Measures table plication, monitoring and update paration of preliminary report on watershed, ioeconomics, land use, water resources, torical floods within the catchment, astructing methodology, and building database dies. nducting preliminary Assessment of Flood ks dertaking Hydrology Studies, Preparation of sin od Metadata Catalogue forming 2D Hydro-Dynamic Modeling, and paration of Flood Risk Maps od Risk Prioritization Studies, Determination nitigation for minimizing flood risk	

\*6.740.000,00 TL is 1.631.961,25 € according to exchange rate 4,13 Euro/TL on 18.07.2017 \*\*6.740.000,00 TL is 1.914.772,72 \$ according to exchange rate 3,52 USD/TL on 18.07.2017.

Project Title		WESTERN BLACK SEA BASIN FLOOD MANAGEMENT PLAN					
Project Location	Overall project	<b>Proportion carried</b>	Nome of alignt	Dates	Name of consortium members		
Project Location	value	out (%)	Ivanie of client	(start/end)	(if any)		
	3.925.000,00 TL			07.08.2017			
Turkey	(943.509,61 €)*	100	General Directorate of Water	_	-		
	(1.112.213,09 \$)**		Management – Ankara	28.07.2019			
Detailed description of project			Types of set	rvices provided			
	This plan aims to ac	hieve the following object	ctives:	> De	finition of the basin		
TINI GENEL MUD	• Reducing the negat	tive impacts of floods on h	numan health, environment, cultural	> Pre	-evaluation of flood risk		
JOR IN	heritage, social and	economic activity		> Flo	od hazard maps		
	• Planning flood may	nagement at basin scale		Fio	od risk maps		
		• Planning flood management at basin scale			<ul> <li>Flood management activities to mitigate the flood</li> </ul>		
	• Ensuring that the organizations work together in a coordinated manner before,			risk	risks		
	during and after the flood based on the institutional powers and responsibilities			<ul> <li>Flood Mitigation Measures table</li> </ul>			
	of the flood manage	of the flood management.			plication, monitoring and update		
	<ul> <li>Increasing public a</li> </ul>	wareness about floods		Preparation of preliminary report on watershed,			
Ensuring more efficient	nt use of financial resource	ces		SOC	torical floods within the catchment		
• To clearly determine r	esponsible and relevant i	nstitutions and organizati	ons in flood management.	cor	estructing methodology and building database		
	r		······	stu	dies.		
				> Co	nducting preliminary Assessment of Flood		
By achieving these obje	ectives, in the Western Bl	ack Sea Basin;		Ris	ks		
Supporting sustainable	e development,			> Un	dertaking Hydrology Studies, Preparation of		
Maximizing the benef	its of flood plains,			Bas	Sin ad Matadata Catala ana		
• Reducing the loss of li	ife and property			P FIO	forming 2D Hydro-Dynamic Modeling and		
		11 4 1		> Pre	paration of Flood Hazard Maps		
• Protecting the environ	ment, historical and cult	iral heritage are almed.		> Pre	paration of Flood Risk Maps		
				> Flo	od Risk Prioritization Studies, Determination		
				of	mitigation for minimizing flood risk		
*2 025 000 00 FFT : 0.12 500 5	1.0 1: 1 1	11CE EL 05.00.0015		I			

\*3.925.000,00 TL is 943.509,61 € according to exchange rate 4,16 Euro/TL on 07.08.2017. \*\*3.925.000,00 TL is 1.112.213,09 \$ according to exchange rate 3,52 USD/TL on 07.08.2017.

Project Title	SAMSUN V	SAMSUN VEZIRKÖPRÜ KÜRTLER CREEK BASIN FLOOD AND EROSION MANAGEMENT MASTER PLAN				
Project Location	Overall project	Proportion carried	Name of client	Dates (start/end)	Name of consortium members (if any)	
Turkey	1.470.000,00 TL (538.461,53 €)* (727.722,77 \$)**	100	State Hydraulic Work (DSİ) – 7 <sup>th.</sup> Regional Directory – Samsun	06.11.2013 - 01.12.2014		
Detailed description of	f project			Types of ser	vices provided	
Detailed description of project         Image: the project of the project of the project is to identify the problems and bring solutions to the problems caused by erosion and floods through 44 km long Kürtler Creek and the tributary rivers along the creek. A total of 192 km <sup>2</sup> basin was studied to define the flooding and erosion hazards through the basin. Kürtler Creek Basin Flood and Erosion Management Master Plan Report was prepared. The master plan report contains the detailed description of the problem, the solution alternatives for the problems and the economic analysis of the proposed solutions.         Within the project; all the settlements in the Kürtler Creek Basin and all the tributaries along 44 km main stream is studied in the field. As a result of the study; problems were determined on 16 left bank and 9 right bank tributaries. Structural and managerial solutions were analyzed technically and economically and			<ul> <li>&gt; Top</li> <li>&gt; Det</li> <li>&gt; Hyo</li> <li>&gt; Ma</li> <li>&gt; Floo</li> <li>&gt; Geo</li> <li>&gt; Stur</li> <li>&gt; 1D</li> <li>&gt; Preg</li> <li>&gt; Tec</li> </ul>	oographical Surveying Services, ailed field Study drologic and Hydraulic Studies nning Coefficient Investigation od Hazard Studies ological, Geotechnical and Hydrogeological dies, Material Investigation Hydrodynamic River Analysis paration of Flood Hazard Maps chnical and Economic Analysis		

\* 1.470.000,00 TL is 538.461,53 € according to exchange rate 2,73 Euro/TL on 06.11.2013. \*\* 1.470.000,00 TL is 727.722,77 \$ according to exchange rate 2,02 USD/TL on 06.11.2013.

Proiect Title	FLOOD AND SEDI	FLOOD AND SEDIMENT CONTROL STUDY OF YEŞILIRMAK RIVER BETWEEN BLACK SEA AND THE TCK BRIDGE IN							
		Ι	ÇARŞAMBA DESTRIC	Γ					
Project Location	Overall project value	Proportion carried out (%)	Name of client	Dates (start/end)	Name of consortium members (if any)				
Turkey	978.800,00 TL (496.852,79 €)* (699.142,86 \$)**	100	State Hydraulic Work (DSİ) – 7 <sup>th.</sup> Regional Directory –Samsun	25.10.2010 - 18.12.2012	-				
Detailed description of	f project			Types of ser	vices provided				
	The purpose of	the project is to determi	ne the possible solutions to protect	> Top	oographical Surveying Services,				
	Çarşamba dist	Çarşamba district and surrounding land from Yeşilırmak River floods,			ailed field Study				
	prevent bank	erosion and to determin	e the structure where the river is	> Hyd	drologic and Hydraulic Studies				
	discharged to E	Black Sea.		> Mai	nning Coefficient Investigation				
	The project is o	conducted in 3 parts.		> Flo	od Hazard Studies				
	1.Part: In the co	ontext of hydrological mo	deling studies, the peak flow values	<ul> <li>Geological, Geotechnical and Hydrogeological</li> </ul>					
	of 02, 05, 02	5. Q50. Q100 and Q500	are calculated and hydrographs are	Stu	dies, Material Investigation				
determined As a resu	ilt Hydrology Report wa	s prepared		► 1D	Hydrodynamic River Analysis				
2 Part: The Topogra	unhical Surveying service	os and field study is cor	aducted to property a topographical	> Prej	paration of Flood Hazard Maps				
		es and field study is con	iducted to prepare a topographical	> Tec	hnical and Economic Analysis				
database for the mode	el.				·				
. 3. Part: The hydrogra	ph of 100 return period fl	ow was used for USACE	's HEC-RAS hydrodynamic model.						
The model is calibrated with the data that is measured from the field in past. Finally, the model results and									
solution alternatives v	were presented to the clie	nt.							

\* 978.800,00 TL is 496.852,79 € according to exchange rate 1,97 Euro/TL on 25.10.2010. \*\* 978.800,00 TL is 699.142,86 \$ according to exchange rate 1,4 USD/TL on 25.10.2010.

Project Title	ENGINEERING SERVICES TO DETERMINE THE FLOOD HAZARD AREAS IN SAMSUN – HAVZA, TERME AND						
			ONDOKUZMAYIS PROVIN	ICES			
Project Location	Overall project value	Proportion carried out (%)	Name of client	Dates (start/end)	Name of consortium members (if any)		
Turkey	1.242.000,00 TL (533.047,21 €)* (697.752,81 \$)**	100	General Directorate of State Hydraulic Works-Ankara	30.01.2012 - 22.11.2013	-		
Detailed description of	f project			Types of ser	vices provided		
(697.752,81 \$)**         Detailed description of project         Within the project; a total of 12 streams in 3 districts of Samsun, namely Terme, Havza and Ondokuzmayıs, was studied to prepare flood hazard maps and to determine structural and managerial solutions to prevent the flood risk in the project area. To do so; for each stream 1D and 2D hydrodynamic models were prepared and calibrated. The hazard maps of Q <sub>2</sub> to Q <sub>500</sub> flows are prepared and presented in GIS format. Also, additional hydro- meteorological network necessity is investigated for planned early warning system.         The project is conducted in 3 parts.         Part: In the context of hydrological modeling studies, the peak flow values of Q <sub>2</sub> , Q <sub>5</sub> , Q <sub>25</sub> , Q <sub>50</sub> , Q <sub>100</sub> and Q <sub>500</sub> are calculated and hydrographs are determined. As a result, Hydrology Report was prepared.         2. Part: The Topographical Surveying services and field study is conducted to prepare a topographical database for the model.         3. Part: The hydrograph of 100 return period flow was used for MIKE 11 and MIKE 21 hydrodynamic model. The model is calibrated with the data that is measured from the field in past. Finally, the model results and solution alternatives were presented to the client.				<ul> <li>Top</li> <li>Det</li> <li>Hyo</li> <li>Mat</li> <li>Flood</li> <li>Geo</li> <li>Stud</li> <li>1D</li> <li>Prej</li> <li>Tec</li> </ul>	oographical Surveying Services, ailed field Study drologic and Hydraulic Studies nning Coefficient Investigation od Hazard Studies ological, Geotechnical and Hydrogeological dies, Material Investigation Hydrodynamic River Analysis paration of Flood Hazard Maps chnical and Economic Analysis		

\* 1.242.000,00 TL is 533.047,21 € according to exchange rate 2,33 Euro/TL on 30.01.2012. \*\* 1.242.000,00 TL is 697.752,81 \$ according to exchange rate 1,78 USD /TL on 30.01.2012.

Project Title	PREPARATION OF DETAILED DESIGNS OF FOUNDATION IMPROVEMENT, STREAM REHABILITATION AND FLOOD PROTECTION ALONG WITH CONSTRUCTION TENDER FILES IN MELES AND ARAP STREAMS IN IZMIR PROVINCE					
Project Location	Overall project value	Proportion carried out (%)	Name of client	Dates (start/end)	Name of consortium members (if any)	
Turkey	1.450.000,00 TL (469.255,66 €)* (529.197,08 \$)**	100	General Directorate of Water and Sewerage Administration of İzmir Municipality	11.06.2015 - 25.01.2016	-	
Detailed description of	project			Types of set	rvices provided	
	The project consi	sts of preparing foun	dation improvement, river bed	> Toj	pographical Surveying Services	
	rehabilitation, flood	protection study and pre-	paration of the tender dossiers for	> Ge	otechnical Investigations and Foundation	
	construction phase in	n the downstream parts o	f Meles and Arap streams covering	Improvement Suggestion Report		
the region where the sea water effect reaches and up to 500 meters upstream. Within the scope of the project, the routes of Arap and Meles streams ar		and up to 500 meters upstream.	Engineering Structures Preliminary Report			
		f the project, the routes of Arap and Meles streams and		<ul> <li>Creating a Digital Terrain Model</li> </ul>		
	precipitation basins	have been studied in deta	ail in terms of the characteristics of	≻ Hy	draulic Analysis	
izeı	sedimentation, urbar	pollution sources and p	recipitation. The aim of the project	> De	tailed Design of Suggested Structures	
	is to design the capac	city of the Arap and Mele	s streams to pass the $Q_{500}$ flood and	> Pre	paration of Tender Documents for	
to design the necessary	structures to make the M	unicipality's cleaning acti	vities systematic in the downstream	Co	nstruction	
part where most debris a	accumulate. In addition, a	a recreation project was d	eveloped throughout the Meles and	> Exj	propriation Plans	
Arap streams and in the	Meles Delta. As a result	, hydraulic modeling of t	he current and projected conditions	≻ Teo	chnical and Economic Analysis	
of the river network ha	s been prepared by re-de	esigning the river bed. E	ventually, planning report, detailed	≻ Qu	antity takeoff	
design of the suggested	facilities and tender do	cuments for the structure	s and recreation areas are prepared	> Bu	dget estimation	
and submitted to the Mu	unicipality.		ropine	> Rec	creation facilities design	

\*1.450.000,00 TL is 469.255,66 € according to exchange rate 3,09 Euro/TL on 11.06.2015. \*\*1.450.000,00 TL is 529.197,08 \$ according to exchange rate 2,74 USD/TL on 11.06.2015.

Project Title		PREPARATIO	OF ARTVIN	PROVINCE			
Project Location	Overall project	Proportion carried	Name of client	Dates	Name of consortium members		
• 	value	out (%)		(start/end)	(if any)		
	570.000,00 TL		State Hydraulic Work (DSİ) –	15.06.2015			
Turkey	(185.667,75€)*	100	26 <sup>th.</sup> Regional Directory - Artvin	-	-		
	(280.791,21 \$)**			19.12.2016			
Detailed description of	f project			Types of ser	vices provided		
	The project inclu	ides preparation of flood	hazard maps of 8 rivers with a total	> Top	pographical Survey		
	length of 12 km	within the boundaries of	Hopa District of Artvin Province, 3	> Det	ailed Field Studies		
	streams within t	he borders of Hopa Dist	trict Kemalpaşa Town with a total	> Hyd	drological and Hydraulic Studies		
	length of 4.4 km	length of 4.4 km, 5 rivers with a total length of 7.3 km within the boundaries			<ul> <li>Manning Coefficient Study</li> </ul>		
	of Arhavi District. The measures to be taken in terms of flood risk are			Flood Hazard Studies			
	determined, 1D	and 2D hydraulic models	were prepared and the results were	▶ 1- a	and 2-Dimensional Hydrodynamic River		
	transferred to G	S environment		Analysis			
				> Pre	paration of Flood Inundation Maps		
The necessary measurer available data are exam	ment network for the tran	sition to the establishmen	t of early warning systems and the	> Pre	paration of Alternatives River Alignments		
	fined and the necessary re	commendations are made	to the administration.		hnical and Economic Analysis		
The project activities w	ere carried out in three ba	asic stages.					
- Stage 1: Within the scope of hydrological modeling studies, 2, 25, 50, 100 and 500-year recursive peak flow values and hydrographs were calculated. The results were given in the Hydrology Interim Report.					Studies		
- Stage 2: Within the scope of topographical survey and field studies, a comprehensive survey was conducted							
with the scale of 1/1 000. Digital Elevation model was created to utilize within the hydraulic modelling.							
- Stage 3: 1- and 2-dime the terrain model.	ensions hydrodynamic fl	ood analysis were perform	ned to create flood hazard areas on				

\*570.000,00 TL is 185.667,75 € according to exchange rate 3,08 Euro/TL on 15.06.2015. \*\*570.000,00 TL is 208.791,21 \$ according to exchange rate 2,73 USD/TL on 15.06.2015.

Project Title	10th REGION STREAMS FLOOD AND SEDIMENT CONTROL 1st PART PLANNING AND DETAILED DESIGN				
Project Location	Overall project	Proportion carried	Name of client	Dates	Name of consortium members
	value	out (%)		(start/end)	(if any)
Turkey	1.348.000,00 TL (279.089,02 €)* (343.002,54 \$)**	100	General Directorate of State Hydraulic Works-Ankara	19.03.2018 - 11.02.2021	-
Detailed description of	f project			Types of ser	rvices provided
Preliminary Examination DSI General Directorate	The work area 10th Regional I In the event of the aforemention damages, deter alternative me on Report, Planning Report together with its technic e, Department of Survey,	covers the following sett Directorate. a possible flood from the oned project areas; in o mining the existing faci asures that can be tak ort and Implementation P al and economic feasibili Planning and Allocations	tlements within the borders of DSI rainfall basin of the streams within order to prevent flood and debris lities in the basin, comparing the ten, and preparing the Planning Project by putting forward the most ty, in the format determined by the s.	<ul> <li>&gt; Pre</li> <li>Rep</li> <li>&gt; Pre</li> <li>&gt; Pre</li> <li>&gt; Pre</li> <li>&gt; Pre</li> <li>&gt; GIS</li> <li>&gt; Pre</li> <li>Pro</li> <li>&gt; Pre</li> <li>&gt; Pre</li> <li>&gt; Pre</li> <li>&gt; Pre</li> </ul>	paration of Preliminary Planning Review ports paration of Project Area Maps paration of Planning Reports paration of Application Projects S Surveys paration of Art Structures Application jects paration of Hydrology Report paration of Agricultural Economy Report

\*1.348.000,00 TL is 279.089,02 € according to exchange rate 4,83 Euro/TL on 19.03.2018 \*\*1.348.000,00 TL is 343.002,54 \$ according to exchange rate 3,93 USD/TL on 19.03.2018

Project Title SAMSUN TEKKEKÖY DISTRICT CENTER FLOOD AND SEDIMENT CC					ANNING ENGINEERING SERVICES
110jett 11tte			К		
Project Location	Overall project value	Proportion carried out (%)	Name of client	Dates (start/end)	Name of consortium members (if any)
Turkey	1.057.588,00 TL (278.886,93 €)* (342,462,27 \$)**	100	State Hydraulic Work (DSİ) – 7 <sup>th</sup> . Regional Directory - Samsun	14.05.2018 - 17.12.2021	-
Detailed description of	f project			Types of ser	vices provided
The purpose of the project is to identify the flood and sedimentation problems and their causes created by the side streams (Asarağaç Stream, Kirazlık Stream, Şabanoğlu Stream, Hıdırellez Canal, Azot Canal, Çobanyatağı Canal, Ortaköprü Canal and their tributaries) passing through the residential areas, industrial facilities, and agricultural lands in the Tekkeköy District Center and Neighborhoods of Samsun Province, and to determine the measures that can be taken in the upper basin and downstream sections of the side streams to prevent flood and sedimentation Control Planning Report for the Side Streams of Tekkeköy District Center, Samsun Province" will be prepared in this context. If the implementation of the facilities proposed in the report for the upper basin and downstream rehabilitation in the side stream basins is realized, the flood and sedimentation damages caused by the streams in the residential areas, industrial facilities, roads, crossing structures, and agricultural lands of Tekkeköy District Center and Neighborhoods will be largely prevented, and the flood waters will be discharged into the Black Sea.				<ul> <li>&gt; Top</li> <li>&gt; Det</li> <li>&gt; Hyo</li> <li>&gt; Mai</li> <li>&gt; Floo</li> <li>&gt; Geo</li> <li>&gt; Stud</li> <li>&gt; 2D</li> <li>&gt; Prej</li> <li>&gt; Tec</li> </ul>	bographical Surveying Services, ailed field Study drologic and Hydraulic Studies nning Coefficient Investigation od Hazard Studies ological, Geotechnical and Hydrogeological dies, Material Investigation Hydrodynamic River Analysis paration of Flood Hazard Maps hnical and Economic Analysis

\*1.057.588,00 TL is 204.400,37 € according to exchange rate 5,17 Euro/TL on 14.05.2018 \*\*1.057.588,00 TL is 244.812,03 \$ according to exchange rate 4,32 USD/TL on 14.05.2018

Project Title	PREPARATION OF THE EXPLORATION REPORT FOR FLOOD AND SEDIMENT CONTROL OF STREAMS IN KASTAMON						
			PROVINCE				
Project Location	Overall project	Proportion carried	Name of client	Dates	Name of consortium members		
	value	out (%)		(start/end)	(if any)		
Turkey	1.630.000,00 TL (81.296,75 €)* (86.426,29 \$)**	100	State Hydraulic Work (DSİ) – 23 <sup>th.</sup> Regional Directory - Kastamonu	02.03.2023 - Ongoing	-		
Detailed description of	f project			Types of services	provided		
economic analyses, pro flood analysis for the e In cases where necessa pressure, insufficient s discharge. Maps for Administration, and the The initial examination out according to the det the Exploration Report	It includes the determined by settlements and of 67 kilometer tributaries to b Within the scop hydrology repo- observational g eparing the exploration of xisting land conditions and ry flood measures cannot stream bed width, etc., a the determined axis and e contractor will perform a report of the flood dam termined flood dam axis,	the preparation of the E the State Hydraulic Wo d agricultural lands within ers within the scope of the e indicated by the Admin pe of this work; obtaining port, preparing the roughin geological surveys, Upp report based on the data ind the proposed project for t be taken with downstreat a flood dam axis will be d lake area will be pr reservoir and operation of , including the reservoir a will be prepared and subr	xploration Report in the format rks (DSİ) for flood control in the n the floodplain along a total route the 60 Report in the streams and istration. maps (67 km), preparing the flood tess coefficient report, conducting er Basin studies, and agricultural obtained from the 1-dimensional ormulation. am rehabilitation due to settlement e investigated to reduce the flood ovided to the contractor by the calculations. and operation studies to be carried nitted to the Administration within	<ul> <li>Topograp</li> <li>Preparation</li> <li>Agriculture</li> <li>1D Flood</li> <li>Technica</li> <li>Preparation</li> <li>Hydrologe</li> </ul>	phical Surveying Services, on of Roughness Coefficient ural Economy I Analysis I and Economic Analysis on of Exploration Report gical Studies		

\*\*1.630.000,00 TL is 86.426,29 \$ according to exchange rate 18,86 USD/TL on 02.03.2023

Project Title	21 <sup>ST</sup> REGION GOLSU PROJECTS PLANNING AND DETAIL DESIGN, 2 <sup>ND</sup> PART					
Project Location	Overall project value	Proportion carried out (%)	Name of client	Dates (start/end)	Name of consortium members (if any)	
Turkey Detailed description o	3.532.212,00 TL (1.222.218,69 €)* (1.635.283,33 \$)** f project	100	General Direcorate of State Hydraulic Works-Ankara	19.08.2014  16.01.2018 <b>Types of se</b>	- rvices provided	
the irrigation lands we hydrological and meteo periods and downstrea pressiometer studies, ar rock, permeability of th dam axis, construction r sample for laboratory te quantitatively, regardin construction materials p carried out to determine the project area climate location. During the det tunnel /conduit, bottom hydraulic, static and dy reports together with te out for selected irrigat branch chambers etc., o with construction drawi this Project for 8 dams.	As a result of 21 2 <sup>nd</sup> Part works, pre- detail design for 8 were completed. In the preliminal studies for determ geological investi for construction mate re carried out for each a brological studies were br m water requirements w nd necessary laboratory w the dam axis and stability of naterials studies were per ests to determine the suita g the geological and topo proper dam types were per the soil classes of the are conditions and farmers h tail design, construction do outlet, intake structure, a rea and plan-profile detailed design of pumpi- ings, related electrical and	st Region Golsu Projects eliminary investigation ar B large dams plus prelimi ry investigation works, ining the water supply can gations for defining the d and water tightness, su- rials and initial examinat and every project location roadened together with the ere calculated, borehole vorks for determining the of the slopes were carried formed by opening test pi- ubility of the potential bor- ographical conditions of a coposed, land classification as to be irrigated, crop wa abits and EIA reports we knawings of dam body, sp ccess roads were prepared stability analysis for dam- re prepared, pressurized e drawings and appurten ng stations and regulatio I mechanical projects were	Planning and Project Construction ad planning reports together with all nary investigation for 2 other dams hydrological and meteorological bacity of each dam axis, preliminary lam axis, geology for the suitability aperficial surveys for appropriate ion for agricultural income rise for n. Throughout the planning stage, he flood analysis for various return works along with in-situ test and bearing capacity of the foundation out for each and one and each of 8 ts, taking disturbed and undisturbed rrow areas in both qualitatively and each site and considering available on works and laboratory tests were tter needs were calculated regarding re prepared for each and every dam illway, energy dissipator, diversion d, bill of quantities were calculated, body were carried out and related pipe network analysis were carried ant structures like valve chamber, n reservoirs were prepared. Along re also prepared within the scope of	<ul> <li>Top</li> <li>Hyd</li> <li>Wa</li> <li>Agg</li> <li>Soi</li> <li>Stu</li> <li>Soi</li> <li>Stu</li> <li>Gee</li> <li>Stu</li> <li>Dat</li> <li>Opt</li> <li>Irri</li> <li>Env</li> <li>Tecc</li> <li>Eva</li> <li>phy</li> <li>eco</li> <li>Fin</li> <li>Stru</li> <li>Fin</li> <li>eng</li> </ul>	pographical Survey, draulic and Hydrological Studies, ater Supply Analysis, ricultural Economy, Expropriation and Water ght Studies, 1 Classification and Drainage Investigation dies ological, Geotechnical and Hydrogeological dies, Material Investigation m and Appurtenant Structures Design and timization gation Network Design and Optimization vironmental Impact Analysis chnical and Economic Analysis aluation of the project area in terms of vsical, geotechnical, hydrogeological and onomical properties al Drawings of Dam Body and Appurtenant uctures al drawings of pressure piped network and gineering structure	

\*3.532.212,00 TL is 1.222.218,69 € according to exchange rate 2,89 Euro/TL on 19.08.2014. \*\*3.532.212,00 TL is 1.635.283,33 \$ according to exchange rate 2,16 USD/TL on 19.08.2014.

<b>Project</b> Title	PREPARATION OF FEASIBILITY STUDY AND DETAILED DESGN OF SMALL DAMS AND IRRIGATIONS OF ISPARTA						
110ject 11tte	PROVINCE						
Project Location	Overall project value	Proportion carried out (%)	Name of client	Dates (start/end)	Name of consortium members (if any)		
Turkey	1.572.500,00 TL (823.298,43 €)* (1.008.012,82 \$)**	100	State Hydraulic Work (DSİ) – 18 <sup>th.</sup> Regional Directory - Isparta	27.05.2010	-		
Detailed description of	f project			Types of s	ervices provided		
environmental impact st are designed with at lea alternatives and the best In the detailed design p details. During the desig and best body type for e derivation conduit, botto structure sizes. Detailed design drawings. The detailed irrigation networks regarding the systems are designed.	The project ind Akdoğan, Ayva total of 3311 ha project scheme. In the context of various aspects hydrologic, hy classification tudies are conducted. Wi ast three alternatives. Qu t economical and technic phase; the proposed stru m phase, stability, seismid ach project was determin om outlet etc. was design d quantity takes off and network design include proposed irrigation syste Final design drawings	cludes preparation of fea alipinar, Sorkuncak, Kirl a agricultural land is aime of feasibility study, the r of the project area and ydraulic, geologic, geo and drainage investiga thin these studies propos antity takeoff and budge al alternative is offered to ctures for the best altern c and dynamic analysis we ed. The general placement and considering the geote budget estimate studies s the field survey and p m. The pressure layers and are provided along with	sibility studies and final designs of kbaş and Yenişarbademli dams. A ed to be irrigated through suggested main focus is to identify and study the proposed structures. To do so; otechnical, hydrogeological, soil ation, agricultural economy and ed storages and irrigation networks et estimations are conducted for all to the client. matives are being studied in further ere applied on the dam embankment nt of the structures such as spillway, echnical restrictions and the optimal were prepared as well as the final preparation of alternative irrigation re determined and best-fit irrigation in the quantity take-off and budget	$\begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} $	popographical Survey, ydraulic and Hydrological Studies, Yater Supply Analysis, gricultural Economy, Expropriation and Water ight Studies, bil Classification and Drainage Investigation udies eological, Geotechnical and Hydrogeological udies, Material Investigation am and Appurtenant Structures Design and ptimization rigation Network Design and Optimization nvironmental Impact Analysis echnical and Economic Analysis valuation of the project area in terms of nysical, geotechnical, hydrogeological and conomical properties nal Drawings Of Dam Body And Appurtenant ructures nal drawings of pressure piped network and ogineering structures		

\*1.572.500,00 TL is 823.298,43 € according to exchange rate 1,91 Euro/TL on 27.05.2010. \*\*1.572.500,00 TL is 1.008.012,82 \$ according to exchange rate 1,56 USD/TL on 27.05.2010.

<b>Project Title</b>	PREPARATION OF DETAILED DESIGN OF AFYONKARAHISAR PROVINCE DAMS AND IRRIGATION, 10 <sup>TH</sup> P				
Project Location	Overall project value	Proportion carried out (%)	Name of client	Dates (start/end	Name of consortium members (if any)
Turkey	2.142.045,00 TL (716.403,01 €)* (982.589,45 \$)**	100	State Hydraulic Work (DSİ) – 18 <sup>th.</sup> Regional Directory - Isparta	18.02.2014 	- ,
Detailed description of	f project			Types of s	ervices provided
classification and drai conducted. Within thes alternatives. Quantity ta and technical alternative	Within the cor drawings are p Başören, Akşeh With the propos agricultural land In the context of various aspects hydrologic, hy nage investigation, agri e studies proposed storag keoff and budget estimati e is offered to the client.	ntext of this project, feas prepared for Sandıklı-E sir-Ilıcak and Sinanpaşa- sed storages and irrigation d is planned to be irrigate of feasibility study, the m of the project area and vdraulic, geologic, geo cultural economy and o ges and irrigation networ ons are conducted for all a	bibility studies and detailed design kinhisar, Hocalar-Uluköy, Şuhut- Yörtikmezarı dams and irrigations. n facilities, total of 3500 hectares of d. nain focus is to identify and study the proposed structures. To do so; btechnical, hydrogeological, soil environmental impact studies are ks are designed with at least three alternatives and the best economical	$\begin{array}{c} & & \\$	popgraphical Surveying Services, ydraulic and Hydrological Studies, Vater Supply Analysis, gricultural Economy, Expropriation and Water ight Studies, bil Classification and Drainage Investigation rudies eological, Geotechnical and Hydrogeological rudies, Material Investigation rigation Network Design and Optimization nvironmental Impact Analysis echnical and Economic Analysis valuation of the project area in terms of
and technical alternative is offered to the client. In the detailed design phase; the proposed structures for the best alternatives are being studied in further details. During the design phase, stability, seismic and dynamic analysis were applied on the dam embankment and best body type for each project was determined. The general placement of the structures such as spillway, derivation conduit, bottom outlet etc. was designed considering the geotechnical restrictions and the optimal structure sizes. Detailed quantity takes off and budget estimate studies were prepared as well as the final design drawings. The detailed irrigation network design includes the field survey and preparation of alternative irrigation networks regarding the proposed irrigation system. The pressure layers are determined and best-fit irrigation systems are designed. Final design drawings are provided along with the quantity take-off and budget estimate studies.			p ea > E > C > C P P P P P P P P P P P P	nysical, geotechnical, hydrogeological and conomical properties valuation of network alternatives valuation of pressure layers of the project area ptimization of pressure piped network roperties anal drawings of pressure piped network and ngineering structures uantity takeoff udget estimation	

\*2.142.045,00 TL is 716.403,01 € according to exchange rate 2,99 Euro/TL on 18.02.2014. \*\*2.142.045,00 TL is 982.589,45 \$ according to exchange rate 2,18 USD/TL on 18.02.2014.

Project Title	PREPARATION	OF FEASIBILITY RE	SNS OF SMA	LL DAMS AND IRRIGATIONS OF	
110jeet 110e		A	FYONKARAHISAR PROVINCE	, 9 <sup>th</sup> PART	
Project Location	Overall project value	Proportion carried out (%)	Name of client	Dates (start/end)	Name of consortium members (if any)
Turkey	1.504.895,00 TL (549.231,75 €)* (741.327,59 \$)**	100	State Hydraulic Work (DSİ) – 18 <sup>th.</sup> Regional Directory - Isparta	07.11.2013 - 31.12.2017	-
Detailed description of	project			Types of ser	rvices provided
Detailed designs of projectWithin the context of the study; the detailed designs of Sandıklı Ekinhisar and Hocalar Uluköy Şuhut Başören dams and Akşehir Ilıcak ve Sinanapaşa Yörük Mezarı Diversion Weirs are completed to cultivate 520 ha of agricultural land. In the detailed design phase; the proposed structures for the best alternatives are being studied in further details. During the design phase, stability, seismic and dynamic analysis were applied on the dam embankment and best body type for each project was determined. The general placement of the structures such as spillway, derivation conduit, bottom outlet etc. was designed considering the geotechnical restrictions and the optimal structure sizes. Detailed quantity takes off and budget estimate studies were prepared as well as the final design drawings.The detailed irrigation network design includes the field survey and preparation of alternative irrigation networks regarding the proposed irrigation system. The pressure layers are determined and best-fit irrigation systems are designed. Final design drawings are provided along with the quantity take-off and budget estimation studies.				<ul> <li>Top</li> <li>Geo</li> <li>Stu</li> <li>Dar</li> <li>Opt</li> <li>Irri,</li> <li>Tec</li> <li>Eva</li> <li>phy</li> <li>eco</li> <li>Fin</li> <li>Strution</li> <li>Fin</li> <li>eng</li> <li>Pre</li> <li>Det</li> <li>GIS</li> </ul>	bographical Survey, bological, Geotechnical and Hydrogeological dies, Material Investigation m and Appurtenant Structures Design and timization gation Network Design and Optimization chnical and Economic Analysis aluation of the project area in terms of vsical, geotechnical, hydrogeological and nomical properties al Drawings of Dam Body And Appurtenant actures al drawings of pressure piped network and gineering structures paration of Project Reports cailed Quantity Takeoff and Cost Estimation S Studies

\*1.504.895,00 TL is 549.231,75 € according to exchange rate 2,74 Euro/TL on 07.11.2013. \*\*1.504.895,00 TL is 741.327,59 \$ according to exchange rate 2,03 USD/TL on 07.11.2013.

Project Location         Overall project value         Proportion carried out (%)         Name of client         Dates (start/end)         Name of consortium (start/end)           Turkey         850.000,00 TL (438.144,33 €)* (602.836.88 \$)**         100         State Hydraulic Work (DSI) - 6 <sup>th</sup> . Regional Directory - Adana         10.11.2010 - 21.12.2011         - 21.12.2011           Detailed description of project         Types of services provided           As a part of Göl-Su projects, the feasibility study of 6 small dams and irrigation facilities are completed. Through the project, 515 Ha of agricultural land will be irrigated. In the context of feasibility study, the main focus is to identify and study various aspects of the project area and the proposed structures. To do so; hydrologic, hydraulic, geologic, geotechnical, hydrogeological, soil classification and drainage investigation, agricultural economy and environmental impact studies are conducted. Within these studies proposed storages and irrigation networks are designed with at least three alternatives. Quantity takeoff and budget estimations are conducted for all alternatives and the best economical and technical alternative is offered to the client.         Dates Name of client         Name of client           Proportion carried (d2, b)         Proportion carried (d3, b)         Proportion carried (d3, b)         Proportion carried (d3, b)         Pates Proportion carried (d3, b)         Name of consortium (d1, d3)           As a part of Göl-Su project, secondical, hydrogeological, soil classification and drainage investigation, agricultural economy and environmental impact studies are conducted. Within these studies proposed storages	PREPARATION OF PLANNING REPORTS OF SMALL DAMS OF ADANA PROVINCE					
Turkey       850.000,00 TL (438.144,33 €)* (602.836,88 \$)**       100       State Hydraulic Work (DSİ) - 6 <sup>th</sup> . Regional Directory - Adana       10.11.2010 - 21.12.2011       -         Detailed description of project       Types of services provided       -       -         Market and the project of project       State Hydraulic Work (DSİ) - 6 <sup>th</sup> . Regional Directory - Adana       >       Topographical Surveying Servic         Market and the project of project area and the project, 515 Ha of agricultural land will be irrigated.       >       Topographical Surveying Servic         In the context of feasibility study, the main focus is to identify and study various aspects of the project area and the proposed structures. To do so; hydrologic, hydraulic, geologic, geotechnical, hydrogeological, soil classification and drainage investigation, agricultural economy and environmental impact studies are conducted. Within these studies proposed storages and irrigation networks are designed with at least three alternatives. Quantity takeoff and budget estimations are conducted for all alternatives and the best economical and technical alternative is offered to the client.       In the context of the project area       Fervaluation of the project area physical, geotechnical, hydrogeological, hydrogeological, soil classification and budget estimations are conducted for all alternatives and the best economical and technical alternative is offered to the client.       In functional	on Overall project Proportion carried value out (%) Name of cli	Dates (start/end)Name of consortium members (if any)				
Detailed description of project         Types of services provided           As a part of Göl-Su projects, the feasibility study of 6 small dams and irrigation facilities are completed. Through the project, 515 Ha of agricultural land will be irrigated.         > Topographical Surveying Servic > Hydraulic and Hydrological Surveying Servic > Mydrologic, hydraulic, geologic, geotechnical, hydrogeological, soil classification and drainage investigation hydrologic, hydraulic, geologic, geotechnical, hydrogeological, soil classification and drainage investigation are conducted for all alternatives and the best economical and technical alternative is offered to the client.         > Stolestimation bydrologic of network alternatives	850.000,00 TL         State Hydraulic Work           (438.144,33 €)*         100           (602.836,88 \$)**         100	$ \begin{array}{c} -6^{\text{th.}} \\ -a \\ 21.12.2011 \end{array} $				
As a part of Göl-Su projects, the feasibility study of 6 small dams and irrigation facilities are completed. Through the project, 515 Ha of agricultural land will be irrigated. In the context of feasibility study, the main focus is to identify and study various aspects of the project area and the proposed structures. To do so; hydrologic, hydraulic, geologic, geotechnical, hydrogeological, soil classification and drainage investigation, agricultural economy and environmental impact studies are conducted. Within these studies proposed storages and irrigation networks are designed with at least three alternatives. Quantity takeoff and budget estimations are conducted for all alternatives and the best economical and technical alternative is offered to the client. As a part of Göl-Su projects, the feasibility study of 6 small dams and irrigation network atternatives. A proper distribution of the project area physical, geotechnical, hydrogeological and technical alternative is offered to the client.	tion of project	Types of services provided				
<ul> <li>Evaluation of pressure layers of</li> <li>Optimization of pressure properties</li> <li>Final drawings of pressure pip engineering structures</li> <li>Quantity takeoff</li> </ul>	As a part of Göl-Su projects, the feasibility study of 6 sma irrigation facilities are completed. Through the project, agricultural land will be irrigated. In the context of feasibility study, the main focus is to identifivations aspects of the project area and the proposed structure aulic, geologic, geotechnical, hydrogeological, soil classification and drainage in omy and environmental impact studies are conducted. Within these studies propo- works are designed with at least three alternatives. Quantity takeoff and budget all alternatives and the best economical and technical alternative is offered to the	and       > Topographical Surveying Services,         a of       > Hydraulic and Hydrological Studies,         a of       > Water Supply Analysis,         > Agricultural Economy, Expropriation and Water Right Studies,         study       > Soil Classification and Drainage Investigation Studies         > o so;       > Geological, Geotechnical and Hydrogeologic Studies, Material Investigation         tion,       > Irrigation Network Design and Optimization         * Environmental Impact Analysis       > Evaluation of the project area in terms of physical, geotechnical, hydrogeological are economical properties         * Evaluation of pressure layers of the project area       > Optimization of pressure piped network are engineering structures         > Final drawings of pressure piped network are engineering structures       > Quantity takeoff				

\*850.000,00 TL is 438.144,33 € according to exchange rate 1,94 Euro/1L on 10.11.2010. \*\*850.000,00 TL is 602.836,88 \$ according to exchange rate 1,41 USD/TL on 10.11.2010.

Project Title	PREPARATION C	OF FEASIBILITY REP	ORTS AND FINAL DESIGNS OF	PEKMEZCI	I SMALL DAM AND IRRIGATION IN
	AKPINA	AR, KIRŞEHİR AND K	OYUNABDAL SMALL DAM AN	D IRRIGATI	ON IN BÜNYAN, KAYSERİ
Project Location	Overall project value	Proportion carried out (%)	Name of client	Dates (start/end)	Name of consortium members (if any)
Turkey Detailed description of	940.000,00 TL (405.172,41 €)* (576.687,12 \$)** f project	100	State Hydraulic Work (DSİ) – 12 <sup>th</sup> . Regional Directory - Kayseri	14.07.2011 - 27.01.2014 Types of ser	- rvices provided
hydrologic, hydraulic, g agricultural economy ar and irrigation networks are conducted for all alt In the detailed design p details. The detailed storage design outlet structure hydrau Moreover; final design prepared. The detailed irrigation networks regarding the systems are designed. estimation studies.	Within the condrawings are p irrigations locat storages and irr planned to be ir The project tool In the context of various aspects geologic, geotechnical, hy ad environmental impact of are designed with at leas ternatives and the best eco phase; the proposed stru sign includes determinati flics and design in addi drawings regarding the s network design include proposed irrigation syste Final design drawings	ntext of this project, feas prepared for Pekmezci a red in Bünyan district of K igation facilities, total of rigated. k place in two parts; the f of feasibility study, the r of the project area and vdrogeological, soil classi studies are conducted. Wi st three alternatives. Quar phonomical and technical al ctures for the best altern on of body type and design tion to detailed quantity storage facilities and axis s the field survey and p m. The pressure layers ar are provided along with	sibility studies and detailed design and Koyunabdal small dams and Cayseri province. With the proposed 725 hectares of agricultural land is reasibility and the final design. main focus is to identify and study the proposed structures. To do so; fication and drainage investigation, thin these studies proposed storages atity takeoff and budget estimations ternative is offered to the client. atives are being studied in further gn; spillway hydraulics and design; y takeoff and budget estimations. a – material site roads drawings are reparation of alternative irrigation the quantity takeoff and budget	<ul> <li>Top</li> <li>Hyd</li> <li>Wa</li> <li>Agu</li> <li>Rig</li> <li>Soi</li> <li>Stu</li> <li>Geo</li> <li>Stu</li> <li>Oar</li> <li>Irri,</li> <li>Tec</li> <li>Eva</li> <li>geo</li> <li>pro</li> <li>Eva</li> <li>Opt</li> <li>pro</li> <li>Fin</li> <li>eng</li> </ul>	pographical Surveying Services, draulic and Hydrological Studies, ter Supply Analysis, ricultural Economy, Expropriation and Water th Studies, 1 Classification and Drainage Investigation dies ological, Geotechnical and Hydrogeological dies, Material Investigation m Design and Optimization, gation Network Design and Optimization chnical and Economic Analysis aluation of the project area in terms of otechnical, hydrogeological and economical perties aluation of network alternatives aluation of pressure layers of the project area timization of pressure piped network perties al drawings of pressure piped network and tineering structures

\*940.000,00 TL is 405.172,41 € according to exchange rate 2,32 Euro/TL on 14.07.2011. \*\*940.000,00 TL is 576.687,12 \$ according to exchange rate 1,63 USD/TL on 14.07.2011.

Project Title	PREPARATION OF FEASIBILITY STUDIES OF SMALL DAMS OF ÇANKIRI PROVINCE, GROUP 1					
Project Location	Overall project value	Proportion carried out (%)	Name of client	Dates (start/end)	Name of consortium members (if any)	
Turkey	1.472.745,00 TL (437.016,32 €)* (481.289,22 \$)**	100	22.07.2016 _ 14.09.2018	-		
Detailed description of	f project			Types of ser	vices provided	
hydrologic, hydraulic, g agricultural economy ar and irrigation networks are conducted for all all	Within the sco dams and irriga Eldivan and At In the context various aspects geologic, geotechnical, hy nd environmental impact are designed with at leas ternatives and the best ec	ope of the project, planni ations which are located is karacalar districts, are con- of feasibility study, the r of the project area and vdrogeological, soil classi studies are conducted. Wi st three alternatives. Quar onomical and technical al	ng reports and annexes of 6 small in Korgun, Orta, Kurşunlu, Çerkeş, mpleted. nain focus is to identify and study the proposed structures. To do so; fication and drainage investigation, thin these studies proposed storages ntity takeoff and budget estimations lternative is offered to the client.	<ul> <li>&gt; Top</li> <li>&gt; Hyo</li> <li>&gt; Wa</li> <li>&gt; Lan</li> <li>&gt; Agn</li> <li>Wa</li> <li>&gt; Geo</li> <li>Nat</li> <li>&gt; Dan</li> <li>Opt</li> <li>&gt; Irrig</li> <li>&gt; Env</li> <li>&gt; Tec</li> <li>&gt; GIS</li> </ul>	bographical Survey drological and Hydraulic Studies ter Supply Works ad Classification and Drainage Investigations ricultural Economics, Expropriation and ter Rights Studies blogy, Geotechnics, Hydrogeology and tural Building Materials Studies in and Appurtenant Structures Design and timization gation Network Design and Optimization vironmental Impact Assessment (EIA) chnical and Economic Analysis S Studies	

\*1.472.745,00 TL is 437.016,32 € according to exchange rate 3,37 Euro/TL on 22.07.2016. \*\*1.472.745,00 TL is 481.289,22 \$ according to exchange rate 3,06 USD/TL on 22.07.2016.

Project Title	PREPARATION OF FEASIBILITY STUDY AND DETAILED DESIGN OF DAMS AND IRRIGATIONS OF ERZINCAN					
Project Location	Overall project value	RT (MERKEZ-KEKLI Proportion carried out (%)	K KAYASI, KEMAH-KARADAG Name of client	, TUZLAKO Dates (start/end)	Name of consortium members (if any)	
Turkey	831.236,00 TL (361.406,96 €)* (466.986,52 \$)**	100	State Hydraulic Work (DSİ) –8 <sup>th.</sup> Regional Directory - Erzurum	07.12.2012 	_	
Detailed description o	f project			Types of ser	rvices provided	
study, the main focus is To do so; hydrologic, investigation, agricultu proposed storages and budget estimations are offered to the client. In studied in further detail the dam embankment a structures such as spilly restrictions and the op prepared as well as the The detailed irrigation networks regarding the systems are designed. estimation studies.	The project con of Merkez-Kek and irrigation in approximately work is 64.45% and the percent. The project inc dams and irriga s to identify and study van hydraulic, geologic, geo ral economy and enviror irrigation networks are de conducted for all altern the detailed design phas ls. During the design phas ls. During the design phas and best body type for e way, derivation conduit, b timal structure sizes. De final design drawings. network design include proposed irrigation syste Final design drawings	nsists of preparation of pl lik Kayası, Kemah-Kara Erzincan province. Thro 481 ha of agricultural lan b, the percentage of the c age of the detailed design ludes all the works requi- tions according to DSI c rious aspects of the projec- technical, hydrogeologic mental impact studies an esigned with at least three atives and the best econ- e; the proposed structures use, stability, seismic and ach project was determin- bottom outlet etc. was des- tailed quantity takes off s the field survey and p m. The pressure layers ar are provided along with	anning reports and detailed designs dağ, Kemah-Tuzlaköy small dams ugh the project it is aimed to irrigate nd. The planning percentage of the detailed design of dams is 19.75%, of irrigation is 15,80%. red for the preparation of all these triteria. In the context of feasibility ct area and the proposed structures. al, soil classification and drainage re conducted. Within these studies e alternatives. Quantity takeoff and omical and technical alternative is s for the best alternatives are being dynamic analysis were applied on ned. The general placement of the signed considering the geotechnical and budget estimate studies were reparation of alternative irrigation the quantity take-off and budget	<ul> <li>&gt; Top</li> <li>&gt; Hyq</li> <li>&gt; Wa</li> <li>&gt; Agg</li> <li>Rig</li> <li>&gt; Soi</li> <li>Stu</li> <li>&gt; Geo</li> <li>Stu</li> <li>&gt; Geo</li> <li>Stu</li> <li>&gt; Dan</li> <li>Opf</li> <li>&gt; Irri</li> <li>&gt; Env</li> <li>&gt; Tec</li> <li>&gt; Eva</li> <li>phy</li> <li>eco</li> <li>&gt; Fin</li> <li>Stru</li> <li>&gt; Fin</li> <li>eng</li> <li>&gt; Pre</li> <li>&gt; Det</li> </ul>	pographical Survey, draulic and Hydrological Studies, ter Supply Analysis, ricultural Economy, Expropriation and Water th Studies, l Classification and Drainage Investigation dies ological, Geotechnical and Hydrogeological dies, Material Investigation m and Appurtenant Structures Design and timization gation Network Design and Optimization wironmental Impact Analysis chnical and Economic Analysis aluation of the project area in terms of visical, geotechnical, hydrogeological and onomical properties al Drawings of Dam Body And Appurtenant uctures al drawings of pressure piped network and gineering structures paration of Project Reports tailed Quantity Takeoff and Cost Estimation	

\*831.236,00 TL is 361.406,96 € according to exchange rate 2,30 Euro/TL on 07.12.2012. \*\*831.236,00 TL is 466.986,52 \$ according to exchange rate 1,78 USD/TL on 07.12.2012.

Project Title	PREPARATION OF DETAILED DESIGN OF THE IRRIGATION NETWORKS OF IVRINDI AND GOKÇEYAZI PLAINS OF						
		BA	LI PROJECT				
Project Location	Overall project value	Proportion carried out (%)	Name of client	Dates (start/end)	Name of consortium members (if any)		
Turkey	720.000,00 TL (315.789,47 €)* (397.790,05 \$)**	100	State Hydraulic Work (DSİ) – 25 <sup>th</sup> . Regional Directory - Balıkesir	14.06.2012 - 05.06.2015	-		
Detailed description of	f project			Types of ser	rvices provided		
Detailed description of project         Within the context of the project, the detailed design of irrigation facilities for 3662 Ha agricultural land is completed.         The detailed irrigation network design includes the field survey and preparation of alternative irrigation networks regarding the proposed irrigation system. The pressure layers are determined and best-fit irrigation systems are designed. Final design drawings are provided along with the quantity take-off and budget estimation studies				<ul> <li>Top</li> <li>Hyd</li> <li>Ged</li> <li>Nat</li> <li>Irri,</li> <li>Tec</li> <li>Irri,</li> <li>Fin</li> <li>eng</li> <li>Pre</li> <li>Det</li> <li>GIS</li> </ul>	pographical Survey draulic Calculations ology, Geotechnics, Hydrogeology and cural Building Materials Studies gation Network Design and Optimization chnical and Economic Analysis gation Pipeline Plan - Profile Design al drawings of pipeline network and cineering structures paration of Project Report cailed Quantity Takeoff and Cost Estimation S Studies		

\*720.000,00 TL is 315.789,47 € according to exchange rate 2,28 Euro/TL on 14.06.2012. \*\*720.000,00 TL is 397.790,05 \$ according to exchange rate 1,81 USD/TL on 14.06.2012.

Project Title	PREPARATION OF FEASIBILITY STUDY OF CORUM DELICE SUNGURLU PROJECT						
Project Location	Overall project	Proportion carried	Name of client	Dates	Name of consortium members		
	value	out (%)		(start/end)	(if any)		
	540.000,00 TL	100	General Directorate of State	22.06.2012			
Turkey	(238.938,05€)*			_	-		
	(300.000,00 \$)**		Trydraune works rinkara	10.06.2016			
Detailed description of	f project			Types of ser	rvices provided		
	Within the sco	ope of Sungurlu Delice	Dam project, various alternatives	> Toj	pographical Survey		
	related to storage	ge, diversion weir, pump	ving station, transmission network,	Hydrological and Hydraulic Studies			
	irrigation facilit	ies and drinking water fac	cilities are studies for technical and	Water Supply Works			
	economic viabil	ity in order to meet the lo	ng-term drinking and potable water	≻ Lar	nd Classification and Drainage Investigations		
	requirements of	the settlements which a	are planned to be supplied by the	> Ag	ricultural Economics, Expropriation and		
reservoir in necessity, and to supply water to irrigate 3172 ha land. The				Wa	ter Rights Studies		
planning reports and annexes were prepared and submitted to DSI.					ology, Geotechnics, Hydrogeology and		
In the context of feasib	ility study, the main focu	us is to identify and study	various aspects of the project area	Nat	ural Building Materials Studies		
and the proposed struct	tures. To do so; hydrolo	gic, hydraulic, geologic,	geotechnical, hydrogeological, soil	> Dai	m and Appurtenant Structures Design and		
classification and drai	nage investigation, agr	icultural economy and	environmental impact studies are	Op	timization		
conducted. Within thes	e studies proposed stora	> Irri	gation Network Design and Optimization				
alternatives. Quantity ta	keoff and budget estimat	> En	vironmental Impact Assessment (EIA)				
and technical alternative is offered to the client.					chnical and Economic Analysis		
					S Studies		

\*540.000,00 TL is 238.938,05 € according to exchange rate 2,26 Euro/TL on 22.06.2012. \*\*540.000,00 TL is 300.000,00 \$ according to exchange rate 1,8 USD/TL on 22.06.2012.

Project Title	FEASIBILITY STUDY AND FINAL DESIGN FOR SMALL DAMS AND IRRIGATION OF 17th REGIONAL DIRECTORATE, VAN					
Project Location	Overall project value	Proportion carried	Name of client	Dates (start/end)	Name of consortium members (if any)	
Turkey	2.470.000,00 TL (633.674,54 €)* (678.720,59 \$)**	100	General Directorate of State Hydraulic Works-Ankara	21.04.2017 - 16.07.2019	- -	
Hardey(003.0/4,340) (678.720,59 \$)**HodHydraulic Works-AnkaraDetailed description of projectWithin the context of this project, feasibility studies and detailed design drawings are prepared for 4 small dams and irrigations located in Saray and Özalp villages of Van province. With the proposed storages and irrigation facilities, total of 1565 hectares of agricultural land is planned to be cultivated. The project took place in two parts; the feasibility and the final design. In the context of feasibility study, the main focus is to identify and study various aspects of the project area and the proposed structures. To do so; hydrologic, hydraulic, geologic, geotechnical, hydrogeological, soil classification and drainage investigation, agricultural economy and environmental impact studies are conducted. Within these studies proposed storages and irrigation networks are designed with at least three alternatives. Quantity takeoff and budget estimations are conducted for all alternatives and the best economical and technical alternative is offered to the client.In the detailed design phase; the proposed structures for the best alternatives are being studied in further details. The detailed storage design includes determination of body type and design; spillway hydraulics and design; outlet structure hydraulics and design in addition to detailed quantity takeoff and budget estimations. Moreover; final design drawings regarding the storage facilities and axis – material site roads drawings are uncertained.				Types of set > Hyd > Wa Exp Cla Stu > Ged Stu > Dat Net > Env Ecc > Eva phy ecco > Eva pre of p > Fin eng esti	rvices provided draulic and Hydrological Studies, ter Supply Analysis, Agricultural Economy, propriation and Water Right Studies, Soil ssification and Drainage Investigation dies, ological, Geotechnical and Hydrogeological dies, Material Investigation, m Design and Optimization, Irrigation twork Design and Optimization, wironmental Impact Analysis, Technical and ponomic Analysis, aluation of the project area in terms of visical, geotechnical, hydrogeological and nomical properties, aluation of network alternatives, Evaluation of ssure layers of the project area, Optimization pressure piped network properties, al drawings of pressure piped network and tineering structures, Quantity takeoff, Budget mation.	

\*2.470.000,00 TL is 317.762,94 € according to exchange rate 3.89 Euro/TL on 21.04.2017 \*\*2.470.000,00 TL is 1.911.135,05 \$ according to exchange rate 3,63 USD/TL on 21.04.2017

Project Title	PREPARATION OF FEASIBILITY REPORTS FOR SMALL DAMS AND IRRIGATION IN BORDER SF 1 <sup>st</sup> REGIONAL						
		1	A	4			
Project Location	Overall project value	Proportion carried out (%)	Name of client	Dates (start/end	Name of consortium members           I)         (if any)		
Turkey	1.200.000,00 TL (317.762,94 €)* (341.860,86 \$)**	100	State Hydraulic Work (DSİ) – 1 <sup>st</sup> . Regional Directory - Bursa	06.12.201 - 09.07.201	6 9		
Detailed description o	f project			Types of	Types of services provided		
Detailed description of project Within the context of this project, feasibility studies performed for 3 small dams and irrigations located in İznik, Kemalpaşa and Mudanya villages of Bursa province. With the proposed storages and irrigation facilities, total of 900 hectares of agricultural land is planned to be cultivated. In the context of feasibility study, the main focus is to identify and study various aspects of the project area and the proposed structures. To do so; hydrologic, hydraulic, geologic, geotechnical, hydrogeological, soil classification and drainage investigation, agricultural economy and environmental impact studies are conducted. Within these studies proposed storages and irrigation networks are designed with at least three alternatives. Quantity takeoff and budget estimations are conducted for all alternatives and the best economical and technical alternative is offered to the client.				> H > V > H > V > H > H > S S S H > H > H H > H S H P H F F F	Iydraulic and Hydrological Studies, Vater Supply Analysis, Agricultural Economy, Expropriation and Water Eight Studies, oil Classification and Drainage Investigation tudies, Geological, Geotechnical and Iydrogeological Studies, Material Investigation, Oam Design and Optimization, Irrigation Network Design and Optimization, Irrigation Network Design and Optimization, Convironmental Impact Analysis, Technical and Conomic Analysis, Evaluation of the project area in terms of physical, eotechnical, hydrogeological and economical roperties, Evaluation of network alternatives, Evaluation of ressure layers of the project area, Optimization of ressure piped network properties,		

\*\*1.200.000,00 TL is 1.911.135,05 \$ according to exchange rate 3,51 USD/TL on 06.12.2016

Project Title	PREPARATION	OF FEASIBILITY RE	PORTS FOR SMALL DAMS ANI	) IRRIGAT	ION IN BORDER OF 13 <sup>th</sup> REGIONAL
			YA		
Project Location	Overall project value	Proportion carried out (%)	Name of client	Dates (start/end)	Name of consortium members (if any)
Turkey	2.250.000,00 TL (604.838,70 €)* (875.486,38 \$)**	100	State Hydraulic Work (DSİ) – 13 <sup>th</sup> . Regional Directory - Antalya	04.01.2017 - 13.12.2019	-
Detailed description of	i projeci			Types of se	
Within the context of this project, feasibility studies performed for 6 small dams and irrigations located in Kumluca and Alanya villages of Antalya province. With the proposed storages and irrigation facilities, total of 1523 hectares of agricultural land is planned to be cultivated. In the context of feasibility study, the main focus is to identify and study various aspects of the project area and the proposed structures. To do so; hydrologic, hydraulic, geologic, geotechnical, hydrogeological, soil classification and drainage investigation, agricultural economy and environmental impact studies are conducted. Within these studies proposed storages and irrigation networks are designed with at least three alternatives. Quantity takeoff and budget estimations are conducted for all alternatives and the best economical and technical alternative is offered to the client.				<ul> <li>Hi</li> <li>W</li> <li>Aş</li> <li>Es</li> <li>Cl</li> <li>Ga</li> <li>St</li> <li>M</li> <li>Op</li> <li>In</li> <li>Er</li> <li>Te</li> <li>the</li> <li>hy</li> <li>Expr</li> </ul>	Adraulic and Hydrological Studies, ater Supply Analysis, gricultural Economy, propriation and Water Right Studies, Soil assification and Drainage Investigation Studies, eological, Geotechnical and Hydrogeological adies, aterial Investigation, Dam Design and otimization, igation Network Design and Optimization, vironmental Impact Analysis, chnical and Economic Analysis, Evaluation of e project area in terms of physical, geotechnical, drogeological and economical properties, aluation of network alternatives, Evaluation of essure layers of the project area,

\*2.250.000,00 TL is 604.838,70 € according to exchange rate 3.72 Euro/TL on 04.01.2017 \*\*2.250.000,00 TL is 875.486,38 \$ according to exchange rate 2,57 USD/TL on 04.01.2017

Project Title	PLANNING ENGINEER FOR CANAKKALE AYVACIK-BAYRAMIC-CAN-LAPSEKI BASINS (AYVACIK-KULFAL, BAYRAMIC-						
110ject 11tte	SARIDUZ, CAN-HACILAR, LAPSEKI-KARAMUSALAR)						
Project Location	Overall project value	Proportion carried out (%)	Name of client	Dates (start/end)	Name of consortium members (if any)		
$\begin{array}{c c} 1.625.000,00 \text{ TL} \\ (357.976,82 \notin)^{*} \\ (435.166,83 \$)^{**} \end{array} \begin{array}{c} \text{State Hydraulic Work (DSI) -} \\ 25^{\text{th.}} \text{ Regional Directory -} \\ \text{Balikesir} \end{array}$		20.12.2017 - 21.02.2023 <b>Types of ser</b> ➤ Prej ➤ Hyo	20.12.2017 				
Services, Çanakkale Province Ayvacık district 1, Lapçe district 1 and 4 of ther in Çap district 1, Çanak district Irrigation District Planning Report an appendices were prepared. As part of planning work; The aim is to study the project area in detail, to study			trict 1, Lapçe district 1 and 4 of them tion District Planning Report and dy the project area in detail, to study	<ul> <li>Water Supply Research</li> <li>Soil classification and drainage studies</li> <li>Agricultural Economics, Alienation and Water Rights Research</li> <li>Geology Geotechnics Hydrogeology and</li> </ul>			
the proposed structures from a technical and economic point of view and to determine the most suitable alternative for the project. To the end of this; Mapping, hydrology, hydraulics, geology, geotechnical, hydrogeology, land classification and drainage, agricultural economics, confiscation, water rights and EIA were carried out. In the light of these studies, three alternative proposed reservoir structures and irrigation lines have been explored. Dam body and appurtenant structures and irrigation network alternatives have been optimized and designed for each alternative. A feasibility study of the alternatives was conducted and the most appropriate alternative for the project was presented to management.				Res Des App Des Env Frec S GIS	earch of Natural Building Materials sign and Optimization of Dam Body and purtenant Structures Irrigation Network sign and Optimization vironmental Impact Assessment (EIA) hnical and Economic Analysis S Surveys		

\*1.625.000,00 TL is 357.976,82 € according to exchange rate 4,53 Euro/TL on 20.12.2017 \*\*1.625.000,00 TL is 435.166,83 \$ according to exchange rate 3,83 USD/TL on 20.12.2017

Project Title	ISTANBUL ŞILE YUNUSLU DAM FEASABILITY AND DETAILED DESIGN PREPARATION				
Project Location	Overall project Proportion carried	Nome of client	Dates	Name of consortium members	
	value	out (%)	Ivalle of cheft	(start/end)	(if any)
Turkey	1.394.330,00 TL (340.387,66 €)* (406.249,63 \$)**	100	State Hydraulic Work (DSİ) – 14 <sup>th.</sup> Regional Directory – İstanbul	15.09.2017 - 20.12.2022	-
Detailed description of	f project			Types of serv	vices provided
Detailed description of project           Image: Im				<ul> <li>Price of set and set</li></ul>	eparation of Project Area Maps ydrological and hydraulic surveys fater Supply Research spropriation and Water Rights Studies eology, Geotechnics, Hydrogeology and esearch of Natural Building Materials esign and Optimization of Dam Body and opurtenant Structures otable Water Network Design and ptimization nvironmental Impact Assessment (EIA) echnical and Economic Analysis etailed Design of Dam Body and Appurtenant ructures Detailed Design of Drinking Water etwork eparation of Design Sheets for Dam Body and ppurtenant Structures

\*1.394.330,00 TL is 340.387,66 € according to exchange rate 4,09 Euro/TL on 15.09.2017 \*\*1.394.330,00 TL is 406.249,63 \$ according to exchange rate 3,43 USD/TL on 15.09.2017
Project Location         Overall project value         Proportion carried out (%)         Name of client         State (star/end)         Name of consortium members (star/end)           I.850.000.00 TL (342.142,73 €)* (398.732.67 S)**         100         State Hydraulic Work (DSI) = 8% Regional Directory = Erzuruut         5.06.2018         -           Detailed description / project (398.732.67 S)**         100         State Hydraulic Work (DSI) = 8% Regional Directory = Erzuruut         5.06.2018         -           Detailed description / project (stardiva dam were prepared. The project envisages cultivating 3.271 her project was implemented in two stages, planning and final project. As part of planning work; the aim is to study the project. To the end of this; land survey, hydrology, hydraulics, geology, geotechnical, hydrogeology, soi classification and drainage studies apricultural economics, land consolidation, water rights and ELA were carried out. In the light of these studies, three alternative proposed structures and irrigation network have been explored. Turuk and auxiligry facilities and irrigation network laternatives have been optimized and designed for each alternative. A feasibility study of the alternatives was conducted and the most appropriate alternative for the project was presented management. The pool is in the final stage of du project. Recessary engineering works were carried out and the selected body alternatives as the planning stage and the body of the dam was examined in deatility facilities. The pool is in the final dimensions of these facilities were evaluated and the geneeral plan of the auxilary facilities of the solution design of the pool her stability. Sessinic and dynamic analyzes of the pool body were carried out on the solution de oly many auxilary facilities	Project Title	ERZINCAN ÇAYIRLI PROJECT KARADIVAN DAM PLANNING AND PROJECT PREPARATION				
Project Docknom         value         out (%)         Name of Cachar         (start/end)         (if any)           It is 250.000,00 TL (342.142,73 €)*         1.00         State Hydraulic Work (DSI) – 8 <sup>h</sup> . (398.732,67 5)**         25.06.2018         -         - <b>Detailed description of project</b> (398.732,67 5)**         100         State Hydraulic Work (DSI) – 8 <sup>h</sup> . (398.732,67 5)**         25.06.2018         -         - <b>Detailed description of project</b> Within the framework of the project, planning reports and detailed design of Karadvan dam were prepared. The project envisages cultivating 3.271 hectares of land with the planned facilities. The project was implemented in two stages, planning and final project. As part of planning work; the aim is to study the project. To the end of this; land survey, hydrology, hydraulics, geology, geotechnical, hydrogeology, soil classification and drainage studies, agricultural economic, land consolidation, water rights and EIA were carried out. In the light of these studies, three alternative proposed reservoir structures and irrigation network have been optimized and designed for each alternatives as conducted and the most appropriate alternative for the project was presented to management. The pool is in the final stage of the project. Necessary engineering works were carried out on the selected body alternatives was conducted and the most appropriate alternative for the project was repeared and the gored plan of the auxillary facilities of the pool body and auxillary facilities were evaluated and the gored plan of the auxillary facilities of the pool body and auxillary facilities were evaluated and the general plan of the auxillary facilities were evaluated and the gored plan of the au	Project Location	Overall project	Proportion carried	Name of client	Dates	Name of consortium members
Turkey1.850.000.00 TL (342,142,73 6)**100State Hydraulic Work (DSI) – 8*. Regional Directory – Erzurum25.06.2018 - -Otto:Otto:Types of services providedDetailed description of projectMinith the framework of the project, planning reports and detailed design of Regional Directory – ErzurumTypes of services providedTypes of services providedDetailed description of project Area MapsA radivan dam were prepared. The project envisages cultivating 3,271 hectares of land with the planned facilities. The project was implemented in two stages, planning and final project. As part of planning work; the aim is to study the project area in detail, to study the project area in detail, to study the project vas implemented in two stages, glanning, and final project. As part of planning work; the aim is to study the project area in detail, to study the project was inplemented in two stages, glanning, and consolidation, water rights and ELA were carried out. In the light of these studies, three altematives was conducted and the most appropriate alternative scale due to span and principation of Dam Body and Appurtcanatics and bring stage of the project; Necessary engineering works were carried out and the most suitable damensions of these facilities were evaluated and the general plan of the project sheets were prepared and the final dimensions of these facilities were carried and the most appropriate alternative. Necessary hydraulic, static and reinforced concrete calculations were performed. Detailed explantion of Floor Draft Sheets for Drinking Water Network and Engineering Structures and buby (scliment waste, bottom of the diversion	I Toject Location	value	out (%)	Ivanie of cheft	(start/end)	(if any)
<ul> <li>Within the framework of the project, planning reports and detailed design of Karadivan dam were prepared. The project envisages cultivating 3,271 herrorect was implemented in two stages, planning and final project. As part of planning work; the aim is to study the project area in detail, to study the project envisages studies. The project was implemented in two stages, planning and final project. As part of planning work; the aim is to study the project area in detail, to study the project envisages studies. The project was implemented in two stages, planning and final project. As part of planning work; the aim is to study the project area in detail, to study the project was implemented in two stages, planning and final project. As part of planning studies, geology, geotechnical, hydrogeology, soil classification and drainage studies, geology, geotechnical, hydrogeology, soil classification and drainage studies, the alternative was conducted and the most appropriate alternative for the project was presented to management. The pool is in the final stage of the project; Necessary engineering works were carried out on the selected body alternatives at the planning stage and the body of the dam was examined in detail. During the design of the pool, the stability, estimic and alyzeny chamber, etc.) was prepared. Necessary hydraulic, static and reinforced concrete calculations were performed. Detailed exploration and quantitative analysis of the pool body and auxiliary facilities were carried out, final project sheets were prepared and submitted to the management for approval. At the stage of final project of irrigation network; The alternatives selected at the planning stage have been researched, designed and optimized. The design sheets of the irrigation flor were prepared by value alternative selected at the planning stage have been sudied in detail on the ground. This part of the irrigation network is the irrigation network in the irrigation flor were prepared and submitted to the management for approval</li></ul>	Turkey	1.850.000,00 TL (342.142,73 €)* (398.732,67 \$)**	100	State Hydraulic Work (DSİ) – 8 <sup>th</sup> . Regional Directory – Erzurum	25.06.2018 - 01.12.2023	- vices provided
studied in detail on the ground. Irrigation network pressure pipelines designed with a pressure pipe irrigation system have been researched, designed and optimized. The design sheets of the irrigation floor were prepared by calculating the detailed quantities and estimates of the irrigation network	Detailed description of Detailed description of Detailed description of alternative proposed refacilities and irrigation m study of the alternatives management. The pool selected body alternative design of the pool, the s suitable dam body type and the final dimensioned dam body (sediment w Necessary hydraulic, st quantitative analysis of t and submitted to the man At the stage of final pro-	f project Within the frame Karadivan dam hectares of land The project was As part of planni the proposed str determine the me survey, hydrolo classification and water rights and servoir structures and in tetwork alternatives have s was conducted and the is in the final stage of the es at the planning stage tability, seismic and dyna was determined. The gen s of these facilities were of aste, bottom of the diver atic and reinforced conc the pool body and auxiliar nagement for approval.	ework of the project, plar were prepared. The pr with the planned facilities implemented in two stage ng work; the aim is to stu- uctures from a technical ost suitable alternative for gy, hydraulics, geology, d drainage studies, agricul EIA were carried out. rigation network have b been optimized and design most appropriate alternat project; Necessary engine and the body of the dam unic analyzes of the pond neral plan of the pond and evaluated and the general sion channel, regulating rete calculations were per y facilities were carried out	ming reports and detailed design of roject envisages cultivating 3,271 s. es, planning and final project. dy the project area in detail, to study and economic point of view and to the project. To the end of this; land geotechnical, hydrogeology, soil tural economics, land consolidation, In the light of these studies, three een explored. Trunk and auxiliary ned for each alternative. A feasibility ive for the project was presented to eering works were carried out on the was examined in detail. During the body were carried out and the most d the geological structure of the soil plan of the auxiliary facilities of the valve chamber, etc.) was prepared. erformed. Detailed exploration and ut, final project sheets were prepared	Types of ser $\triangleright$ $\forall$ $\triangleright$ $\forall$ $\triangleright$ $\forall$ $\triangleright$ $\forall$ $\diamond$ $\forall$ $\diamond$ $\forall$ $\bullet$ $\forall$	vices provided eparation of Project Area Maps drological and hydraulic surveys ater Supply Research il classification and drainage studies ricultural Economics, Alienation and Water ghts Research ology, Geotechnics, Hydrogeology and search of Natural Building Materials sign and Optimization of Dam Body and purtenant Structures Drinking Water twork Design and Optimization vironmental Impact Assessment (EIA) chnical and Economic Analysis tailed Design of Dam Body and Appurtenant uctures Detailed Design of Drinking Water twork eparation of Floor Draft Sheets for Drinking ater Network and Engineering Structures
	system have been researcher by calculating the detail	rched, designed and optimed quantities and estimate	nized. The design sheets of the irrigation network	of the irrigation floor were prepared		

\*1.850.000,00 TL is 342.142,73 € according to exchange rate 5,40 Euro/TL on 25.06.2018 \*\*1.850.000,00 TL is 398.732,67 \$ according to exchange rate 4,63 USD/TL on 25.06.2018

Project Title	10th REGION BATMAN SIIRT DAM AND IRRIGATION PLANNING ENGINEERING SERVICES				
Project Location	Overall project	Proportion carried	Name of client	Dates	Name of consortium members
	value	out (%)	Name of cheft	(start/end)	(if any)
Turkey	1.930.124,20 TL (531.656,07 €)* (573.264,48 \$)**	100	General Directorate of State Hydraulic Works-Ankara	08.12.2016 - 19.10.2016	-
Detailed description of	f project			Types of ser	vices provided
	Within the scop	e of the "DSI 10th Region	n Batman-Siirt Dams and Irrigation	> (	General Plan Report on Hydrology
Planning Report Engineering Services (Batman-Gercüş Hisarköy, Batman-Gercüş Kayapınar Yenice, Batman Kozluk Dolutaş, Batman Kozluk Ulaşlı, Siirt-Eruh Matras, and Siirt-Kurtalan Hanok Dams)" project; the water potentials of Kur Creek in Hisarköy, Gercüş District, Batman Province, Kevikhırar Creek in Yenice Village, Kayapınar Town, Gercüş District, Batman Province, Zuhor Creek in Ulaşlı Village, Kozluk District, Batman Province, Hoşkigeli (Matras) Creek in Eruh District, Siirt Province, and Hanok Creek in Bölüktepe Village, Kurtalan District, Siirt Province, located in the Dicle-Fırat Basin of the Southeastern Anatolia Region, will be evaluated. The areas identified as irrigable in the Planning Report, where soil resources are examined, will be opened to irrigated agriculture. If there are derivation possibilities, the axis location and facilities will be drilled, geotechnical reports will be prepared, material surveys will be conducted, maps of the axis location, lake area, pumping locations (if any), drinking water transmission network (if any), and irrigation areas will be obtained, and hydrology, soil resources, and agricultural economy studies will be conducted. It is necessary to propose the construction of all facilities in the project (body, conduit,				<ul> <li>&gt;</li> <li>&gt;</li> <li>&gt;</li> <li>&gt;</li> <li>&gt;</li> <li>&gt;</li> <li>+</li> <li>&gt;</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+</li> <li>+&lt;</li></ul>	General Plan Report on Water Rights Alienation Master Plan Report Groundwater Master Plan Report Geotechnical Master Plan Report Natural Construction Materials General Plan Report Population Forecast and Water Needs Master Plan Report General Plan Interim Report Preparation of 1/5000 Dimensional Maps General Plan Report GIS Surveys
and drinking water tanks, etc.) that are deemed technically and economically feasible as a planning report				≻ F	Environmental Impact Assessment (EIA)
Within the scope of the "DSI 10th Region Batman-Surt Dams and Irrigation Planning Report Engineering Services (Betman Gercüs Hisarköy, Batman Gercüs Kayapınar Venice, Batman Kozluk Dolutas, Batman					
Kozluk Ulaşlı, Siirt-Er	uh Matras, and Siirt-Ku	talan Hanok Ponds)" stu	idy, all proposed facilities will be		
examined at the plannin	ng level, and planning rep	orts will be prepared.	-		

\*1.930.124,20 TL is 531.656,07 € according to exchange rate 3,63 Euro/TL on 08.12.2016 \*\*1.930.124,20 TL 573.264,48 \$ according to exchange rate 3,36 USD/TL on 08.12.2016

Project Title	PREPARATION OF FEASIBILITY REPORTS FOR BUYUK MENDERES AND WEST MEDITERRANEAN BASINS					
Project Location	Overall project value	Proportion carried out (%)	Name of client	Dates (start/end	) Name of consortium members (if any)	
Turkey	1.544.526,00 TL (702.057,27 €)* (971.400,00 \$)**	100	State Hydraulic Work (DSİ) – 21 <sup>st</sup> . Regional Directory - Aydın	28.02.201	3	
Detailed description o	f project			Types of s	ervices provided	
hydrologic, hydraulic, g agricultural economy reservoirs and irrigation estimations are conduct the client.	Within the content networks are pro- reservoirs and i where agricultur have a remarkab In the context of various aspects geologic, geotechnical, hy and environmental impa n networks are designed ted for all alternatives an	xt of the project; seven stropposed to cultivate 1791 rrigations are located in e is a big source of econ le social and economic be the feasibility study, the of the project area and to rdrogeological, soil classi act studies are conducte with at least three alterna d the best economical an	orages and pressure piped irrigation hectares of agricultural land. The Denizli, Aydın, Muğla provinces omy and this project is believed to enefits on the local society. main focus is to identify and study the proposed structures. To do so; fication and drainage investigation, d. Within these studies proposed atives. Quantity takeoff and budget d technical alternative is offered to	> T > H > V > A R > S S > C S > C S > C S > C S > C S > C S > C S > T	opographical Surveying Services, ydraulic and Hydrological Studies, Vater Supply Analysis, gricultural Economy, Expropriation and Water ight Studies, oil Classification and Drainage Investigation tudies eological, Geotechnical and Hydrogeological tudies, Material Investigation am Design and Optimization, rigation Network Design and Optimization nvironmental Impact Analysis echnical and Economic Analysis	

\* 1.544.526,00 TL is 702.057,27 € according to exchange rate 2,2 Euro/TL on 28.02.2011. \*\* 1.544.526,000 TL is 971.400,00 \$ according to exchange rate 1,59 USD/TL on 28.02.2011.

Project Title	PREPARATION OF FEASIBILITY REPORTS OF SMALL DAMS AND IRRIGATIONS OF SANLIURFA PROVINCE, 2 <sup>nd</sup> PAR				
Project Location	Overall project value	Proportion carried out (%)	Name of client	Dates (start/end)	Name of consortium members (if any)
Turkey	1.315.000,00 TL (592.342,34 €)* (837.579,62 \$)**	100	State Hydraulic Work (DSİ) – 15 <sup>th.</sup> Regional Directory - Şanlıurfa	18.03.2011 04.03.2013	
Detailed description of	f project			Types of ser	vices provided
various aspects of the p geotechnical, hydrogeo environmental impact s are designed with at lea alternatives and the best	Within the cont drawings are pr Uzunca small da facilities, total of In the context o project area and the prop blogical, soil classification tudies are conducted. Wi ast three alternatives. Qu t economical and technica	ext of this project, feasi epared for Dilekli, Erice ms and irrigations. With t 942 hectares of agricultu f feasibility study, the m osed structures. To do so on and drainage investi- thin these studies propose antity takeoff and budge al alternative is offered to	ibility studies and detailed design ibility studies Güher, Nohutlu and the proposed storages and irrigation ural land is planned to be irrigated. nain focus is to identify and study o; hydrologic, hydraulic, geologic, gation, agricultural economy and ed storages and irrigation networks t estimations are conducted for all o the client.	<ul> <li>Top</li> <li>Hyd</li> <li>Wat</li> <li>Agr</li> <li>Rigl</li> <li>Soil</li> <li>Soil</li> <li>Stud</li> <li>Geo</li> <li>Stud</li> <li>Dan</li> <li>Irrig</li> <li>Env</li> <li>Tect</li> </ul>	ographical Surveying Services, Iraulic and Hydrological Studies, er Supply Analysis, icultural Economy, Expropriation and Water ht Studies, Classification and Drainage Investigation lies logical, Geotechnical and Hydrogeological dies, Material Investigation n Design and Optimization, gation Network Design and Optimization ironmental Impact Analysis hnical and Economic Analysis

\* 1.315.000,00 TL is 592.342,34 € according to exchange rate 2,22 Euro/TL on 18.03.2011. \*\* 1.315.000,00 TL is 837.579,62 \$ according to exchange rate 1,56 USD/TL on 18.03.2011.

Project Location         Overall project value         Proportion carried out (%)         Name of client         Dates (start/end)         Name of consortium members (if any)           Turkey         1.420.000,00 TL (609.442,06 €)* (793.296,09 \$)**         100         State Hydraulic Work (DSI) - 21st Regional Directory - Aydm         06.03.2013 - 25.12.2015         -           Detailed description of project         Types of services provided         Types of services provided         >           Within the project, the feasibility studies are prepared for Aydın Karpuzlu Hatipkışla, Denizli Bozkurt Emirçayı İnceler, Muğla Kavaklıdere Menteşe, Denizli Çameli, İmamlar, Muğla Fethiye Arpacık, Muğla Merkez Kozağaç dams and irrigation fecilities in addition to the feasibility study of Ağaçlıhöyük Flood Detention Dam. In the context of feasibility study, the main focus is to identify and study various aspects of the project area and the proposed structures. To do so; hydrologic, hydraulic, geologic, geotechnical, hydrogeological, soil classification and drainage investigation, agricultural economy and         > Irrigation Network Design and Optimization	Project Title	PREPARATION OF FEASIBILITY REPORTS FOR BUYUK MENDERES AND WEST MEDITERRANEAN BASINS, 6th PART					
Induction       value       out (%)       Induct of easibility       (start/end)       (if any)         Image: Induct of easibility       1.420.000,00 TL (609.442,06 €)* (793.296,09 \$)**       100       State Hydraulic Work (DSI) - 214 Regional Directory - Aydin       06.03.2013 - 25.12.2015       -         Detailed description of project       Types of services provided       Types of services provided         Within the project, the feasibility studies are prepared for Aydın Karpuzlu Hatipkışla, Denizli Bozkurt Emirçayı İnceler, Muğla Kavaklıdere Menteşe, Denizli Çameli, İmamlar, Muğla Fethiye Arpacık, Muğla Merkez Kozağaç dams and irrigation fecilities in addition to the feasibility study of Ağaçlıhöyük Flood Detention Dam. In the context of feasibility study, the main focus is to identify and study       > Soil Classification and Drainage Investigation Studies       > Geological, Geotechnical and Hydrogeological Studies, Material Investigation         various aspects of the project area and the proposed structures. To do so; hydrologic, hydraulic, geologic, geotechnical, hydrogeological, soil classification and drainage investigation, agricultural economy and       > Irrigation Network Design and Optimization	Project Location	Overall project	Proportion carried	Name of client	Dates	Name of consortium members	
Turkey       1.420.000,00 TL (609.442,06 €)* (793.296,09 \$)**       100       State Hydraulic Work (DSİ) - 21* Regional Directory - Aydın       06.03.2013 25.12.2015       -         Detailed description of project       Types of services provided       -       -         Within the project, the feasibility studies are prepared for Aydın Karpuzlu Hatipkışla, Denizli Bozkurt Emirçayı İnceler, Muğla Kavaklıdere Menteşe, Denizli Çameli, İmamlar, Muğla Fethiye Arpacık, Muğla Merkez Kozağaç dams and irrigation fecilities in addition to the feasibility study of Ağaçlıhöyük Flood Detention Dam. In the context of feasibility study, the main focus is to identify and study various aspects of the project area and the proposed structures. To do so; hydrologic, hydraulic, geologic, geotechnical, hydrogeological, soil classification and drainage investigation, agricultural economy and       > Intigation Network Design and Optimization		value	out (%)		(start/end	) (if any)	
Detailed description of project       Types of services provided         Within the project, the feasibility studies are prepared for Aydın Karpuzlu       > Topographical Surveying Services,         Hatipkışla, Denizli Bozkurt Emirçayı İnceler, Muğla Kavaklıdere Menteşe,       > Hydraulic and Hydrological Studies,         Denizli Çameli, İmamlar, Muğla Fethiye Arpacık, Muğla Merkez Kozağaç       > Mater Supply Analysis,         dams and irrigation fecilities in addition to the feasibility study of       Ağaçlıhöyük Flood Detention Dam.         In the context of feasibility study, the main focus is to identify and study       > Soil Classification and Drainage Investigation         various aspects of the project area and the proposed structures. To do so; hydrologic, hydraulic, geologic,       > Geological, Geotechnical and Hydrogeological         studies, Material Investigation       > Irrigation Network Design and Optimization	Turkey	1.420.000,00 TL (609.442,06 €)* (793.296,09 \$)**	100	State Hydraulic Work (DSİ) – 21 <sup>st</sup> Regional Directory - Aydın	06.03.2013 - 25.12.2015		
<ul> <li>Within the project, the feasibility studies are prepared for Aydın Karpuzlu Hatipkışla, Denizli Bozkurt Emirçayı İnceler, Muğla Kavaklıdere Menteşe, Denizli Çameli, İmamlar, Muğla Fethiye Arpacık, Muğla Merkez Kozağaç dams and irrigation fecilities in addition to the feasibility study of Ağaçlıhöyük Flood Detention Dam. In the context of feasibility study, the main focus is to identify and study</li> <li>various aspects of the project area and the proposed structures. To do so; hydrologic, hydraulic, geologic, geotechnical, hydrogeological, soil classification and drainage investigation, agricultural economy and</li> <li>Topographical Surveying Services, Hydraulic and Hydrological Studies,</li> <li>Water Supply Analysis,</li> <li>Agricultural Economy, Expropriation and Water Right Studies,</li> <li>Soil Classification and Drainage Investigation Studies</li> <li>Geological, Geotechnical and Hydrogeological Studies, Material Investigation</li> <li>Irrigation Network Design and Optimization</li> <li>Environmentel Investigation</li> </ul>	Detailed description o	f project			Types of s	ervices provided	
<ul> <li>environmental impact studies are conducted. Within these studies proposed storages and irrigation networks are designed with at least three alternatives. Quantity takeoff and budget estimations are conducted for all alternatives and the best economical and technical alternative is offered to the client</li> <li>Environmental impact Analysis</li> <li>Technical and Economic Analysis</li> <li>Evaluation of the project area in terms of physical geotechnical, hydrogeological and economical properties</li> <li>Quantity takeoff</li> <li>Budget estimation</li> </ul>	various aspects of the geotechnical, hydroged environmental impact s are designed with at le alternatives and the best	Within the proje Hatipkışla, Deni Denizli Çameli, dams and irrig Ağaçlıhöyük Flo In the context o project area and the prop blogical, soil classificati studies are conducted. Wi ast three alternatives. Qu t economical and technic	ect, the feasibility studies zli Bozkurt Emirçayı İnd İmamlar, Muğla Fethiye gation fecilities in addi ood Detention Dam. If feasibility study, the n posed structures. To do s on and drainage investi thin these studies propos antity takeoff and budge al alternative is offered to	s are prepared for Aydın Karpuzlu celer, Muğla Kavaklıdere Menteşe, e Arpacık, Muğla Merkez Kozağaç ition to the feasibility study of nain focus is to identify and study o; hydrologic, hydraulic, geologic, igation, agricultural economy and ed storages and irrigation networks et estimations are conducted for all o the client	> T > P > P > A > R > S > S > S > S > S > S > S > S > S > S	opographical Surveying Services, ydraulic and Hydrological Studies, Vater Supply Analysis, gricultural Economy, Expropriation and Water ight Studies, oil Classification and Drainage Investigation rudies eological, Geotechnical and Hydrogeological rudies, Material Investigation rigation Network Design and Optimization nvironmental Impact Analysis echnical and Economic Analysis valuation of the project area in terms of physical, eotechnical, hydrogeological and economical roperties uantity takeoff udget estimation	

\*1.420.000,00 TL is 609.442,06 € according to exchange rate 2,33 Euro/TL on 06.03.2013. \*\*1.420.000,00 TL is 793.296,09 \$ according to exchange rate 1,79 USD/TL on 06.03.2013.

Project Title	PREPARATION O	PREPARATION OF FEASIBILITY REPORTS OF SMALL DAMS AND IRRIGATIONS OF SANLIURFA PROVINCE, 1st PART				
Project Location	Overall project	Proportion carried	Name of client	Dates	Name of consortium members	
	value	out (%)		(start/end)	(if any)	
	1.227.000,00 TL		State Hydraulic Work (DSİ) –	18.03.2011		
Turkey	(524.358,97 €)*	100	15th. Regional Directory -	-	-	
	(677.900,55 \$)**		Şanlıurfa	04.03.2013		
Detailed description of	f project			Types of serv	vices provided	
	Within the cont	ext of this project, feasi	ibility studies and detailed design	> Top	ographical Surveying Services,	
	drawings are pro	epared for Külhan, Mezra	a, Narlıkaya, Taşıkara and Yeditaş	> Hyd	raulic and Hydrological Studies,	
	small dams and	small dams and irrigations. With the proposed storages and irrigation facilities, total of 1178 hectares of agricultural land is planned to be irrigated.			er Supply Analysis,	
	facilities, total of				> Agricultural Economy, Expropriation and Water	
	In the context o	In the context of feasibility study, the main focus is to identify and study			nt Studies,	
	various aspects	of the project area and t	the proposed structures. To do so;	> Soil	Classification and Drainage Investigation	
hydrologic, hydraulic, g	geologic, geotechnical, hy	drogeological, soil classi	fication and drainage investigation,	Stud	lies	
agricultural economy an	nd environmental impact s	studies are conducted. Wi	thin these studies proposed storages	> Geo	logical, Geotechnical and Hydrogeological	
and irrigation networks	are designed with at leas	t three alternatives. Quan	ntity takeoff and budget estimations	Stud	lies, Material Investigation	
are conducted for all alt	ternatives and the best eco	onomical and technical al	Iternative is offered to the client.	Dam	n Design and Optimization,	
				> Irrig	ation Network Design and Optimization	
				> Env	ironmental Impact Analysis	
				Tech	nnical and Economic Analysis	

\*1.227.000,00 TL is 524.358,97 € according to exchange rate 2,34 Euro/TL on 18.03.2011. \*\*1.227.000,00 TL is 677.900,55 \$ according to exchange rate 1,81 USD/TL on 18.03.2011.

Project Title	PLANNING AND	SMALL DAMS AND IRRIGATIONS			
Project Location	Overall project	Proportion carried	Name of client	Dates	Name of consortium members
	value	out (%)		(start/end)	(if any)
Turkey	1.340.000,00 TL (575.107,30 €)* (774.566,47 \$)**	100	State Hydraulic Work (DSİ) – 7 <sup>th.</sup> Regional Directory - Samsun	29.02.2012 - 22.07.2014	-
Detailed description of	f project			Types of ser	vices provided
classification and drai conducted. Within thes alternatives. Quantity ta and technical alternative	The project inclu- cultivate 4112 he it aims to provid In the context of various aspects hydrologic, hy nage investigation, agri e studies proposed storag keoff and budget estimati e is offered to the client	ides four storages and prectares of agricultural land e drinking water for Kara the feasibility study, the of the project area and the draulic, geologic, geo cultural economy and ges and irrigation networ ons are conducted for all	ressure piped irrigation networks to d in Amasya province. Additionally, atuzla district from Karatuzla Dam. main focus is to identify and study the proposed structures. To do so; atechnical, hydrogeological, soil environmental impact studies are tks are designed with at least three alternatives and the best economical	<ul> <li>&gt; Top</li> <li>&gt; Hyd</li> <li>&gt; Wat</li> <li>&gt; Agr Rigl</li> <li>&gt; Soil</li> <li>&gt; Soil</li> <li>&gt; Geo</li> <li>&gt; Stuc</li> <li>&gt; Dan</li> <li>&gt; Irrig</li> <li>&gt; Env</li> <li>&gt; Tech</li> </ul>	ographical Surveying Services, Iraulic and Hydrological Studies, er Supply Analysis, icultural Economy, Expropriation and Water ht Studies, Classification and Drainage Investigation flies logical, Geotechnical and Hydrogeological flies, Material Investigation, n Design and Optimization, gation Network Design and Optimization ironmental Impact Analysis hnical and Economic Analysis

\* 1.340.000,00 TL is 575.107,30 € according to exchange rate 2,33 Euro/TL on 29.02.2012. \*\* 1.340.000,00 TL is 774.566,47 \$ according to exchange rate 1,73 USD/TL on 29.02.2012.

<b>Project Title</b>	PREPARATION OF FEASIBILITY REPORTS AND FINAL DESIGNS OF PEKMEZCI SMALL DAM AND IRRIGATION IN AUDINAR VIRSEHIR AND VOYUNARDAL SMALL DAM AND IRRICATION IN RUNNAN, KAYSERI				
Project Location	Overall project value	Proportion carried out (%)	Name of client	Dates (start/end)	Name of consortium members (if any)
Turkey	940.000,00 TL (405.172,41 €)* (576.687,12 \$)**	100	State Hydraulic Work (DSİ) – 12 <sup>th.</sup> Regional Directory - Kayseri	14.07.2011 - 27.01.2014	-
Detailed description of	f project			Types of serv	vices provided
hydrologic, hydraulic, g agricultural economy ar and irrigation networks are conducted for all alt In the detailed design p details. The detailed storage der outlet structure hydrau Moreover; final design prepared. The detailed irrigation networks regarding the systems are designed. estimation studies.	Within the cont drawings are p irrigations locate storages and irri- planned to be irr The project took In the context o various aspects geologic, geotechnical, hy ad environmental impact s are designed with at leas ternatives and the best ecc phase; the proposed stru- sign includes determinati- dics and design in addi- drawings regarding the s network design includer proposed irrigation syste Final design drawings	ext of this project, feasi repared for Pekmezci a ed in Bünyan district of K gation facilities, total of igated. place in two parts; the fe f feasibility study, the m of the project area and to ordrogeological, soil classi studies are conducted. With three alternatives. Quan conomical and technical al ctures for the best altern on of body type and design tion to detailed quantity storage facilities and axis s the field survey and p m. The pressure layers ar are provided along with	ibility studies and detailed design and Koyunabdal small dams and ayseri province. With the proposed 725 hectares of agricultural land is easibility and the final design. nain focus is to identify and study the proposed structures. To do so; fication and drainage investigation, thin these studies proposed storages neutry takeoff and budget estimations iternative is offered to the client. natives are being studied in further gn; spillway hydraulics and design; y takeoff and budget estimations. a – material site roads drawings are reparation of alternative irrigation the quantity takeoff and budget	<ul> <li>Top</li> <li>Hyd</li> <li>Wat</li> <li>Agri</li> <li>Righ</li> <li>Soil</li> <li>Stud</li> <li>Geo</li> <li>Stud</li> <li>Geo</li> <li>Stud</li> <li>Dan</li> <li>Irrig</li> <li>Envi</li> <li>Tecl</li> <li>Eval</li> <li>geot</li> <li>prop</li> <li>Eval</li> <li>Eval</li> <li>Eval</li> <li>Opti</li> <li>Fina</li> <li>engi</li> </ul>	ographical Surveying Services, raulic and Hydrological Studies, er Supply Analysis, icultural Economy, Expropriation and Water nt Studies, Classification and Drainage Investigation lies logical, Geotechnical and Hydrogeological lies, Material Investigation n Design and Optimization, station Network Design and Optimization ironmental Impact Analysis nuical and Economic Analysis luation of the project area in terms of physical, echnical, hydrogeological and economical perties luation of network alternatives luation of pressure layers of the project area imization of pressure piped network properties al drawings of pressure piped network and neering structures

\*940.000,00 TL is 405.172,41 € according to exchange rate 2,32 Euro/TL on 14.07.2011. \*\*940.000,00 TL is 576.687,12 \$ according to exchange rate 1,63 USD/TL on 14.07.2011.

Project Title	REHABILITATION PLANNING AND FINAL DESIGN OF MANISA SARIGOL IRRIGATION				
Project Location	Overall project value	Proportion carried out (%)	Name of client	Dates (start/end)	Name of consortium members (if any)
Turkey	720.000,00 TL (309.012,88 €)* (404.494,38 \$)**	100	State Hydraulic Work (DSİ) – 2 <sup>nd</sup> . Regional Directory - İzmir	04.12.2012 - 05.05.2018	-
Detailed description of	f project			Types of ser	vices provided
classification and drai conducted. Within thes alternatives. Quantity ta and technical alternativ In the detailed design details. The detailed irrigation networks regarding the systems are designed. estimation studies	The project aims ha land to a pres in two parts; as t In the context of various aspects hydrologic, hy nage investigation, agri e studies proposed storag keoff and budget estimati e is offered to the client. phase; the proposed stru network design include proposed irrigation syste Final design drawings	to rehabilitate existing o surized as drip and sprink he technical report and the f technical report, the model of the project area and the draulic, geologic, geo cultural economy and o ges and irrigation networ ons are conducted for all a ctures for the best altern s the field survey and p m. The pressure layers ar are provided along with	pen canal irrigation system of 2379 ther systems. The project took place the final design. The proposed structures and study the proposed structures. To do so; technical, hydrogeological, soil environmental impact studies are the atternatives and the best economical attives are being studied in further reparation of alternative irrigation the determined and best-fit irrigation in the quantity takeoff and budget	<ul> <li>&gt; Top</li> <li>&gt; Hyo</li> <li>&gt; Wa</li> <li>&gt; Age</li> <li>Rig</li> <li>&gt; Soi</li> <li>Stu</li> <li>&gt; Geo</li> <li>Stu</li> <li>&gt; Geo</li> <li>Stu</li> <li>&gt; Geo</li> <li>Stu</li> <li>&gt; Eva</li> <li>geo</li> <li>pro</li> <li>&gt; Eva</li> <li>geo</li> <li>pro</li> <li>&gt; Eva</li> <li>&gt; Opt</li> <li>&gt; Fin</li> <li>eng</li> </ul>	bographical Surveying Services, draulic and Hydrological Studies, ter Supply Analysis, ticultural Economy, Expropriation and Water ht Studies, I Classification and Drainage Investigation dies blogical, Geotechnical and Hydrogeological dies, Material Investigation gation Network Design and Optimization vironmental Impact Analysis bluation of the project area in terms of physical, technical, hydrogeological and economical perties lluation of network alternatives iluation of pressure layers of the project area imization of pressure piped network properties al drawings of pressure piped network and ineering structures

\*720.000,00 TL is 309.012,88 € according to exchange rate 2,33 Euro/TL on 04.12.2012. \*\*720.000,00 TL is 404.494,38 \$ according to exchange rate 1,78 USD/TL on 04.12.2012.

Project Title	REHABILITATION PLANNING AND FINAL DESIGN OF MANISA ALAŞEHIR IRRIGATION					
Project Location	Overall project value	Proportion carried out (%)	Name of client	Dates (start/end)	Name of consortium members (if any)	
Turkey	1.810.000,00 TL (783.549,78 €)* (1.005.555,56 \$)**	100	State Hydraulic Work (DSİ) – 2 <sup>nd</sup> . Regional Directory - İzmir	04.04.2013 - 15.12.2014	-	
	The project aims pressurized as dr as the technical r	to rehabilitate the existin ip and sprinkler systems. report and the final design	ng open canal irrigation system to a The project took place in two parts; n.	<ul> <li>Top</li> <li>Hyd</li> <li>Wat</li> <li>Agr</li> </ul>	ographical Surveying Services, raulic and Hydrological Studies, er Supply Analysis, icultural Economy, Expropriation and Water	
In the context of technical report, the main focus is to identify and study various aspects of the project area and the proposed structures. To do so; hydrologic, hydraulic, geologic, geotechnical, hydrogeological, soil				<ul> <li>≻ Rigi</li> <li>→ Soil</li> <li>Stud</li> <li>&gt; Geo</li> </ul>	<ul> <li>Right Studies,</li> <li>Soil Classification and Drainage Investigation Studies</li> <li>Geological Geotechnical and Hydrogeological</li> </ul>	
classification and drai conducted. Within thes alternatives. Quantity ta and technical alternativ In the detailed design details. The detailed irrigation networks regarding the systems are designed. estimation studies.	inage investigation, agri se studies proposed storag skeoff and budget estimati e is offered to the client. phase; the proposed stru- network design includer proposed irrigation syste Final design drawings	cultural economy and e ges and irrigation networ ons are conducted for all a ctures for the best altern s the field survey and p m. The pressure layers ar are provided along with	environmental impact studies are ks are designed with at least three alternatives and the best economical atives are being studied in further reparation of alternative irrigation e determined and best-fit irrigation the quantity takeoff and budget	Stuc Stuc Stuc Stuc Stuc Env Stuc Stuc Env Stuc Stuc Env Stuc Stuc Stuc Env Stuc	lies, Material Investigation gation Network Design and Optimization ironmental Impact Analysis hunical and Economic Analysis luation of the project area in terms of physical, echnical, hydrogeological and economical berties luation of network alternatives luation of pressure layers of the project area imization of pressure piped network properties al drawings of pressure piped network and neering structures get estimation	

\* 1.810.000,00TL is 783.549,78 € according to exchange rate 2,31 Euro/TL on 04.04.2013. \*\* 1.810.000,00 TL is 1.005.555,56 \$ according to exchange rate 1,8 USD/TL on 04.04.2013.

Project Title	PREPARATION OF FINAL DESIGN DRAWINGS FOR IRRIGATION NETWORKS IN KUCUK MENDERES BASIN IRRIGATIONS 1 <sup>st</sup> PART – AKTAS, BURGAZ, ERGENLI AND BADEMLI IRRIGATIONS					
Project Location	Overall project value	Proportion carried out (%)	Name of client	Dates (start/end)	Name of consortium members (if any)	
Turkey	1.078.480,00 TL (470.951,97 €)* (619.816,09 \$)**	100	State Hydraulic Work (DSİ) – 2 <sup>nd</sup> . Regional Directory - İzmir	03.02.2012 - 16.12.2013		
Detailed description of	f project			Types of serv	vices provided	
Detailed description of project         Within the context of this project, detailed design of irrigation networks are designed for total area of 9243 hectares of agricultural land that is located in provinces Aktaş (1580 Ha), Burgaz (3568 Ha), Ergenli (3047 Ha) and Bademli (1048.9 Ha) in İzmir, Turkey.         For each site the detailed pressure piped irrigation network is designed and the network optimization studies are conducted. Within the project; several alternative irrigation networks are studied. The best technical and economical alternative is offered to the client and the detailed drawings were prepared.				<ul> <li>&gt; Top</li> <li>&gt; Hyd</li> <li>&gt; Geo</li> <li>Natu</li> <li>&gt; Irrig</li> <li>&gt; Tecl</li> <li>&gt; Irrig</li> <li>&gt; Fina <ul> <li>engi</li> <li>&gt; Prep</li> <li>&gt; Deta</li> <li>&gt; GIS</li> </ul> </li> </ul>	ographical Survey raulic Calculations logy, Geotechnics, Hydrogeology and ural Building Materials Studies ation Network Design and Optimization unical and Economic Analysis ation Pipeline Plan - Profile Design 1 drawings of pipeline network and neering structures paration of Project Report ailed Quantity Takeoff and Cost Estimation Studies	

\* 1.078.480,00 TL is 470.951,97 € according to exchange rate 2,29 Euro/TL on 03.02.2012. \*\* 1.078.480,00 TL is 619.816,09 \$ according to exchange rate 1,74 USD/TL on 03.02.2012.

Project Title	PREPARATIO	PREPARATION OF DETAILED DESIGN OF SMALL DAMS AND IRRIGATIONS OF BURDUR PROVINCE, 7th PART				
Project Location	Overall project value	Proportion carried out (%)	Name of client	Dates (start/end)	Name of consortium members (if any)	
Turkey	1.220.036,00 TL (450.197,79 €)* (521.382,91 \$)**	100	State Hydraulic Work (DSİ) – 18 <sup>th.</sup> Regional Directory - Isparta	21.01.2015 - 07.12.2017		
Detailed description of project         The aim of the project is preparation of feasibility studies and final designs of Burdur Çavdır Ambarcık Dam and Irrigation, Merkez Günalan Diversion Weir and Irrigation. Merkez Günalan Diversion Weir and Irrigation. Through the project 635 Ha of agricultural land is aimed to be irrigated. In the detailed design phase; the proposed structures for the best alternatives are being studied in further details. During the design phase, stability, seismic and dynamic analysis were applied on the dam embankment and best body type for each project was determined. The general placement of the structures such as spillway, derivation conduit, bottom outlet etc.			Types of ser Types of ser Top Top Soil Stud Cont Dan Opt Irrig Tec Eva phy	vices provided ographical Survey, Iraulic and Hydrological Studies, Classification and Drainage Investigation dies logical, Geotechnical and Hydrogeological dies, Material Investigation n and Appurtenant Structures Design and imization gation Network Design and Optimization hnical and Economic Analysis luation of the project area in terms of sical geotechnical hydrogeological and		
off and budget estimate The detailed irrigation networks regarding the systems are designed. estimation studies.	studies were prepared as network design include proposed irrigation syste Final design drawings	well as the final design of s the field survey and p m. The pressure layers and are provided along with	drawings. reparation of alternative irrigation re determined and best-fit irrigation the quantity take-off and budget	<ul> <li>phy</li> <li>ecol</li> <li>Fina</li> <li>Stru</li> <li>Fina</li> <li>engi</li> <li>Prep</li> <li>Peta</li> <li>GIS</li> </ul>	sical, geotechnical, hydrogeological and nomical properties al Drawings of Dam Body and Appurtenant actures al drawings of pressure piped network and ineering structures paration of Project Reports ailed Quantity Takeoff and Cost Estimation Studies	

\*1.220.036,00 TL is 450.197,79 € according to exchange rate 2,71 Euro/TL on 21.01.2015. \*\*1.220.036,00 TL is 521.382,91 \$ according to exchange rate 2,34 USD/TL on 21.01.2015.

Project Title	PERPARATION OF DETAILED DESIGN OF SIVAS YILDIZELI NEVRUZ IRRIGATION					
Project Location	Overall project value	Proportion carried out (%)	Name of client	Dates (start/end)	Name of consortium members (if any)	
Turkey	927.357,00 TL (396.306,41 €)* (515.198,33 \$)**	100	State Hydraulic Work (DSİ) – 19 <sup>th</sup> . Regional Directory - Sivas	16.04.2012 - 17.11.2015	-	
Detailed description of	f project			Types of serv	ices provided	
The detailed irrigation networks regarding the systems are designed. estimation studies	The scope of photogrammetri 5.500 ha irrigati transmission ner reinforced conce preparation of de network design include proposed irrigation syste Final design drawings	the project includes c maps and survey of the t on area; preparation of a twork; block planning b rete and hydraulic calcula etailed design of the prop s the field survey and p m. The pressure layers ar are provided along with	s preparation of 1/1000 scale ransmission network that will cover all included detail design of 12 km ased on land consolidation; static, ations of Kalın Diversion Weir and osed structures. reparation of alternative irrigation re determined and best-fit irrigation the quantity take-off and budget	<ul> <li>Topo</li> <li>Geol</li> <li>Studi</li> <li>Irriga</li> <li>Evalu</li> <li>Evalu</li> <li>Optin</li> <li>Final</li> <li>engin</li> <li>Quar</li> <li>Budg</li> </ul>	ographical Surveying Services, ogical, Geotechnical and Hydrogeological ies, Material Investigation ation Network Design and Optimization uation of network alternatives uation of pressure layers of the project area mization of pressure piped network properties d drawings of pressure piped network and neering structures ntity takeoff get estimation	

\*927.357,00 TL is 396.306,41 € according to exchange rate 2,34 Euro/TL on 16.04.2012. \*\*927.357,00 TL is 515.198,33 \$ according to exchange rate 1,8 USD/TL on 16.04.2012.

Project Title	PREPARA	PREPARATION OF DETAILED DESIGN OF THE IRRIGATION NETWORK OF HAKKARI-DILIMLI DAM				
Project Location	Overall project	Proportion carried	Name of client	Dates	Name of consortium members	
	value	out (%)		(start/end)	(if any)	
	976.991,38 TL		General Directorate of State	19.09.2013		
Turkey	(370.072,49 €)*	100	Hydraulic Works-Ankara	-	-	
	(501.021,22 \$)**			20.04.2016		
Detailed description of	f project			Types of serv	rices provided	
	In order to irriga	te the 7505 Ha of gross are	ea in the plain located in Yüksekova	> Topo	ographical Survey	
	District of Hakl	kari Province, a 1450 m	long transmission channel with a	> Hydr	aulic Calculations	
	capacity of 1.5 n	n <sup>3</sup> /h was designed.		> Geol	ogy, Geotechnics, Hydrogeology and Natural	
	In the detailed d	In the detailed design phase; the detailed irrigation network design includes the field survey and preparation of alternative irrigation networks regarding			ding Materials Studies	
	the field survey				ation Network Design and Optimization	
	the proposed irri	gation system. The press	ure layers are determined and best-	<ul> <li>Technical and Economic Analysis</li> </ul>		
fit irrigation systems ar	e designed. Final design	drawings are provided a	long with the quantity take-off and	> Irriga	ation Pipeline Plan - Profile Design	
budget estimation studie	es.			> Final	drawings of pipeline network and	
				engin	neering structures	
				> Prep	aration of Project Report	
				Deta	iled Quantity Takeoff and Cost Estimation	
				> GIS	Studies	

\*976.991,38 TL is 370.072,49 € according to exchange rate 2,64 Euro/TL on 19.09.2013. \*\*976.991,38 TL is 501.021,22 \$ according to exchange rate 1,95 USD/TL on 19.09.2013.

Project Title	PREPARATIO	PREPARATION OF FEASIBILITY STUDY OF SIVAS SUŞEHRI SERPINTI CATALOLUK DAM AND IRRIGATION					
Project Location	Overall project	Proportion carried	Name of client	Dates	Name of consortium members		
	value	out (%)		(start/end)	(if any)		
	880.000,00 TL		State Hydroulic Work (DSI)	21.06.2012			
Turkey	(389.380,53€)*	100	19 <sup>th.</sup> Regional Directory - Sivas	-	-		
	(494.382,02 \$)**			13.11.2015			
Detailed description of	f project			Types of ser	vices provided		
	The project cons	sists of the feasibility stud	ly of Çataloluk Dam, Irrigation and	> Тор	ographical Survey		
	HEPP facilities.	The stored water in da	m will be conveyed to 2 cascade	> Hyd	rological and Hydraulic Studies		
	1				<ul> <li>Water Supply Works</li> </ul>		
	HEPPs for estimated production of 5.65 GWH and 6.46 GWH. The wate			Land Classification and Drainage Investigations			
	from the tailwate	from the tailwater then will be conveyed to the irrigation area for 2041 ha of			icultural Economics, Expropriation and Water		
	agricultural land	to be irrigated.		Rig	hts Studies		
	6	6		> HEI	PP design, calculation and optimization		
In the context of feasib	ility study, the main focu	is is to identify and study	various aspects of the project area	> Geo	logy, Geotechnics, Hydrogeology and Natural		
and the proposed struct	tures. To do so; hydrolog	gic, hydraulic, geologic,	geotechnical, hydrogeological, soil	Bui	ding Materials Studies		
aloggification and drai	noss investigation agri	aultural aconomy and	anvironmantal impact studios are	Dan	n and Appurtenant Structures Design and		
	nage investigation, agri	cultural economy and	environmentai impact studies are	Opt	imization		
conducted. Within thes	e studies proposed stora	ges and irrigation networ	ks are designed with at least three	➢ Irrig	ation Network Design and Optimization		
alternatives. Quantity takeoff and budget estimations are conducted for all alternatives and the best economical					ironmental Impact Assessment (EIA)		
				> Tec	hnical and Economic Analysis		
				> GIS	Studies		

\*880.000,00 TL is 389.380,53 € according to exchange rate 2,26 Euro/TL on 21.06.2012. \*\*880.000,00 TL is 494.382,02 \$ according to exchange rate 1,78 USD/TL on 21.06.2012.

Project Title	BÜYÜK MENDERES CINDERE PROJECT BULDAN PLAIN IRRIGATION					
Project Location	Overall project value	Proportion carried out (%)	Name of client	Dates (start/end)	Name of consortium members (if any)	
Turkey	650.000,00 TL (316.764,13 €)* (423.728,81 \$)**	100	State Hydraulic Work (DSİ) – 21 <sup>st</sup> . Regional Directory - Aydın	24.03.2010  20.12.2012	-	
Detailed description of	f project			Types of ser	vices provided	
built approximately 20 irrigation water of 89 6 Feslek Nazilli, Aydın R	In project scope investigated for height, taking in conducting diffe energy productio Adıgüzel dam w km upstream of Cindere 00 ha irrigation area in C tight Coast and Söke plai	; the optimum energy pro the existing Cindere D nto consideration all the erent alternatives of rese on. hich is one of the main s e Dam. Within the scope Gölemezli - Çürüksu - Bu	oduction and irrigation scheme was am, without changing the current e projects in the upstream and by ervoir operation of irrigation and torage of the Menderes system was e of irrigation purpose of the dam, aldan - Yenicekent, Yenice - Saray, oduction utilizing Adıgüzel I and II	<ul> <li>Top</li> <li>Hyo</li> <li>Wa</li> <li>Lan</li> <li>Agn</li> <li>Rig</li> <li>Geo</li> <li>Bui</li> <li>Dan</li> <li>Opt</li> </ul>	bographical Survey drological and Hydraulic Studies ter Supply Works d Classification and Drainage Investigations ricultural Economics, Expropriation and Water hts Studies blogy, Geotechnics, Hydrogeology and Natural lding Materials Studies n and Appurtenant Structures Design and imization	
HEPPs. Through the planning report, energy production possibilities by utilizing the head difference between Adıgüzel Dam and Yenice Weir were investigated in addition to irrigation alternatives of 2864 ha area from Cindere Dam. Finally, Adıgüzel II HEPP, which has 3 energy levels, is proposed as 62 MW (river power plant with diversion weir), Cindere Dam and HEPP 30 MW and Yenicekent HEPP 22 MW.				<ul> <li>Irrig</li> <li>Env</li> <li>Tec</li> <li>GIS</li> </ul>	gation Line Design and Optimization rironmental Impact Assessment (EIA) hnical and Economic Analysis Studies	

\*650.000,00 TL is 316.764,13 € according to exchange rate 2,05 Euro/TL on 24.03.2010. \*\*650.000,00 TL is 423.728,81\$ according to exchange rate 1,53 USD/TL on 24.03.2010.

Project Title	BEYŞEHIR KIRELI PUMP IRRIGATION PROJECT PREPARATION				
Project Location	Overall project Proportion carried		Name of client	Dates	Name of consortium members
	value	out (%)		(start/end)	(if any)
Turkey	1.455.300,00 TL (505.874,58 €)* (684.331,79 \$)**	100	State Hydraulic Work (DSİ) – 4 <sup>th</sup> . Regional Directory - Konya	18.07.2014 - 23.10.2020	_
Detailed description o	f project			Types of serv	rices provided
As part of the restoration of the existing 13,000 hectares of open canal classical irrigation network; This includes the preparation of the necessary planning technical report for the system to be installed as a pipeline network, map procurement, geological surveys and reports, irrigation and drainage network, construction of projects based on the application of all kinds of art structures. The project; It was implemented in two stages, including a technical report and a final project.			<ul> <li>Hyd</li> <li>Wa</li> <li>Agr Rig</li> <li>Soil Geo Res</li> <li>Mat</li> <li>Opt</li> </ul>	draulic and Hydrological Research, ter Supply Analysis, ricultural Economics, Alienation and Water hts Research, l Classification and Drainage Research, ological, Geotechnical and Hydrogeological earch, terials Research, Dam Design, imization, Analysis and Optimization, Dam	
As part of technical rep from a technical and eco the end of this; Mapping drainage, agricultural e studies, the most suitab technically and econom Irrigation floor project s ground. Irrigation networ researched, designed and detailed quantities and of	orting; The aim is to stud onomic point of view and g, hydrology, hydraulics, conomics, confiscation, v le irrigation network alter ically investigated. stage; The alternatives sel vork pressure pipelines of nd optimized. The irrigation	y the project area in deta to determine the most sui geology, geotechnical, hy water rights and EIA wer matives for the rehabilitat ected at the planning stag designed with a pressure ion network was prepare network	il, to study the proposed structures table alternative for the project. To drogeology, land classification and e carried out. As a result of these tion area have been developed and ge have been studied in detail on the pipe irrigation system have been d by calculating the project sheets,	<ul> <li>Des</li> <li>Tec</li> <li>Ass</li> <li>phy</li> <li>eco</li> <li>Ass</li> <li>Ass</li> <li>Ass</li> <li>Are</li> <li>Opt</li> <li>Qua</li> <li>Budg</li> </ul>	sign and Optimization, chnical and Economic Analysis, sessment of the Project Area in terms of sical, geotechnical, hydrogeological and nomic properties, sessment of Network Alternatives, sessment of Pressure Layers of the Project a, cimization of Pressure Pipeline Features, antitative Rise, get Assessment.

\*1.455.300,00 TL is 505.874,58 € according to exchange rate 2,87 Euro/TL on 18.07.2014 \*\*1.455.300,00 TL is 684.331,79 \$ according to exchange rate 2,12 USD/TL on 18.07.2014

Project Title	ESKISHEHIR SEYITGAZI IRRIGATION UPDATE TECHNICAL REPORT AND PROJECT PREPARATION				
Project Location	Overall project	Proportion carried	Name of client	Dates	Name of consortium members
	value	out (%)		(start/end)	(if any)
Turkey	1.650.000,00 TL (510.756,84 €)* (684.331,79 \$)**	100	State Hydraulic Work (DSİ) – 3 <sup>rd</sup> . Regional Directory - Eskişehir	29.02.2016 - 06.12.2021	-
Detailed description of pr	roject			Types of serv	ices provided
to study the proposed struct suitable alternative for the p hydrogeology, land classifi were carried out. As a rest rehabilitation area have bee Irrigation floor project stage ground. Irrigation network researched, designed and op detailed quantities and estin The work is 95% complete	As part of the pr canal irrigation report for the sys geological surve irrigation and dra The project; It w and a final project As part of technic toroject. To the end of t ication and drainage, sult of these studies, en developed and technic to pressure pipelines d primized. The design s mates of the irrigation and final acceptance i	roject, rehabilitation of th network; Preparation of stem to be installed as a pi eys and reports, applicati ainage network and all kin vas implemented in two s ct. ical reporting; The aim is al and economic point o his; Mapping, hydrology, agricultural economics, of the most suitable irriga nically and economically ected at the planning stag- esigned with a pressure sheets of the irrigation floo network is expected	e existing 14,518 hectares of open the necessary planning technical ipeline network, map procurement, on-based project construction for nds of art structures stages, including a technical report to study the project area in detail, f view and to determine the most hydraulics, geology, geotechnical, confiscation, water rights and EIA ation network alternatives for the investigated. e have been studied in detail on the pipe irrigation system have been or were prepared by calculating the	Ippes of servery         >         Prepared         >         Hydrity         >         Wate         >         Agridule         Law         >         Soil         >         Geol         Natu         >         Designed         Irrigation         Irrigation         Envition         Detation         Prepared         Advation         Prepared         ancill	aration of Project Area Maps cological and Hydraulic Surveys er Supply Research cultural Economics, Community and Water Studies classification and drainage works ogy, Geotechnical, Hydrogeology and ral Building Materials Research gn and optimization of body and ancillary oment ation network design and optimization ronmental Impact Assessment (EIA) nical and Economic Analysis iled design of body and auxiliary devices anced Irrigation Network Design aration of floor design sheets for body and lary facilities

\*1.650.000,00 TL is 510.756,84 € according to exchange rate 3,23 Euro/TL on 29.02.2016 \*\*1.650.000,00 TL is 684.331,79 \$ according to exchange rate 2,96 USD/TL on 29.02.2016

Project Title	MALATYA-YONCALI TRANSMISSION TUNNEL AND IRRIGATION PROJECT AND REHABILITATION PLANS					
Project Location	Overall project	<b>Proportion carried</b>	Name of client	Dates	Name of consortium members	
1 Toject Location	value	out (%)	Name of cheft	(start/end)	(if any)	
Turkey Detailed description o	Turkey       1.370.000,00 TL         (480.735,49 €)*         (655.596,49 \$)**         tailed description of project		State Hydraulic Work (DSİ) – 9 <sup>th</sup> . Regional Directory - Elazığ	06.06.2014 - 16.06.2022 <b>Types of ser</b>	- vices provided	
As part of technical rep from a technical and ec the end of this; Mappin drainage, agricultural e studies, the most suitab technically and econom Irrigation floor project s ground. Irrigation network researched, designed ar detailed quantities and	The project cover canal classical technical report, network with the an independent p piped network. The project; It w a final project. The aim is to stude onomic point of view and g, hydrology, hydraulics, conomics, confiscation, de irrigation network alter ically investigated. Stage; The alternatives sel- vork pressure pipelines d ad optimized. The irrigation	ers the rehabilitation of the irrigation network; Prep- mapping, geological analy- e application of all kinds project covers the prepar- as implemented in two stands by the project area in deta to determine the most su geology, geotechnical, hy- water rights and EIA we rnatives for the rehabilitate ected at the planning stage esigned with a pressure on network was prepared network.	he existing 17,115 hectares of open aration of the necessary planning ysis and reports, irrigation and canal of art structure to the application of ation of the system to be built as a ages, including a technical report and ail, to study the proposed structures hitable alternative for the project. To ydrogeology, land classification and re carried out. As a result of these ation area have been developed and e have been studied in detail on the pipe irrigation system have been I by calculating the project sheets,	<ul> <li>Pree</li> <li>Hy</li> <li>Wa</li> <li>Ag</li> <li>Lav</li> <li>Soi</li> <li>Gea</li> <li>Naa</li> <li>Dea</li> <li>equ</li> <li>Irri</li> <li>Env</li> <li>Teo</li> <li>Dea</li> <li>Ad</li> <li>Prea</li> <li>anc</li> <li>Irrig</li> <li>Proja</li> </ul>	aparation of Project Area Maps drological and Hydraulic Surveys atter Supply Research ricultural Economics, Community and Water w Studies al classification and drainage works ology, Geotechnical, Hydrogeology and tural Building Materials Research sign and optimization of body and ancillary tipment gation Network design and optimization vironmental Impact Assessment (EIA) chnical and Economic Analysis tailed design of body and auxiliary devices vanced Irrigation Network Design aparation of floor design sheets for body and cillary equipment ation Network and Engineering Structures ect	

\*1.370.000,00 TL is 480.735,49 € according to exchange rate 2,84 Euro/TL on 06.06.2014 \*\*1.370.000,00 TL is 655.596,49 \$ according to exchange rate 2,08 USD/TL on 06.06.2014

Project Title	KONYA-EREGLI IVRIZ RIGHT BANK IRRIGATION PROJECT PREPARATION						
Project Location	Overall project value	Proportion carried out (%)	Name of client	Dates (start/end	Name of consortium members           (if any)		
Turkey	1.920.500,00 TL (486.473,48 €) (545.571,63 \$)	100	AGE İnşaat ve Ticaret A.Ş.	13.06.201 - 01.10.202	- 1		
Detailed description o	of project			Types of s	ervices provided		
,	The project is part of the	rehabilitation of the exis	ting 25,075 hectares of open-canal	▶ Ir	rigation Network Design and Optimization		
	classical irrigation netwo	ork; The system to be o	constructed as a pipeline network	> T	echnical and Economic Analysis		
	includes the necessary irri	gation and drainage netw	ork and the construction of projects	> D	etailed Irrigation Network Design		
	based on the application of	of any engineering structu	ire	> Pi	eparation of Irrigation Network Plan-Profiles		
AGE	The project; there was a ne	eed for renewal as the con	solidation was reconsidered. In this	≻ Pi	eparation of Irrigation Network and Engineering		
	context, the contractor ag	greed with the company	. The alienated districts and main	P	oject Sheets		
pipeline projects were i	implemented in two phase	es, the first phase and the	consolidation areas.				
As part of project work	x; the aim is to study the p	project area in detail, to st	udy the proposed structures from a				
technical and economic	c point of view and to det	ermine the most suitable	alternative for the project. For this				
purpose, hydraulic stud	lies were conducted. As a	result of these studies, t	he most suitable irrigation network				
alternatives for the reha	abilitation area have been	developed and technicall	y and economically investigated.				
The alternatives selected	ed during the irrigation pro	oject phase have been stu	died in detail in the area. Irrigation				
network pressure pipel	ines designed with a pres	ssure pipe irrigation syste	em have been researched, designed				
and optimized. The design sheets of the irrigation floor were prepared by calculating the detailed quantities							
and estimates of the irr	and estimates of the irrigation network.						

\*1.920.500,00 TL is 486.473,48 € according to exchange rate 3,94 Euro/TL on 13.06.2017 \*\*1.920.500,00 TL is 545.571,63 \$ according to exchange rate 3,51 USD/TL on 13.06.2017

Project Title		SAKARYA-PA	VAL PLANNI	NG REPORT	
Project Location	Overall project	Proportion carried	Name of client	Dates	Name of consortium members
	value	out (%)	Name of cheft	(start/end)	(if any)
Turkey	710.000,00 TL (108.019,29 €)* (117.910,81 \$)**	100	State Hydraulic Work (DSİ) – 3 <sup>rd</sup> . Regional Directory - Eskişehir	12.02.2020	-
Detailed description of	f project			Types of serv	vices provided
$\frown$	The project envi	sages the transformation	of the existing open canal irrigation	> To	pographical Surveying Services,
	system into a pre	ssure system such as drip	and sprinkler. The project consisted	≻ Ну	draulic and Hydrological Studies,
	of two parts; as a	technical report and fina	l design.	≻ W	ater Supply Analysis,
classification and draina part of this work, the pro Quantitative and budget and technical alternative	of two parts; as a technical report and final design. In the context of a technical report, the focus is on identifying and studying various aspects of the project area and proposed structures. To do so; hydrological, hydraulic, geological, geotechnical, hydrogeological, soil fication and drainage studies, agricultural economics and environmental impact studies are conducted. As of this work, the proposed reservoirs and irrigation networks have been at least designed three alternatives. titative and budget calculations are made for all alternatives and the customer is offered the best economic echnical alternative.			<ul> <li>Aş</li> <li>W</li> <li>So</li> <li>Stu</li> <li>Ge</li> <li>Stu</li> <li>Irr</li> <li>En</li> </ul>	gricultural Economy, Expropriation and ater Right Studies, il Classification and Drainage Investigation adies eological, Geotechnical and Hydrogeological adies, Material Investigation igation Network Design and Optimization wironmental Impact Analysis
At the advanced design	stage; the proposed struc	tures for the best alternati	ves are studied in more detail.	≻ Te	chnical and Economic Analysis
Advanced irrigation network design includes field research and development of alternat related to the proposed irrigation system. Pressure layers are determined and the most suit are designed. The final design drawings are provided along with the quantity increase an			ent of alternative irrigation networks I the most suitable irrigation systems ity increase and budget estimates.	<ul> <li>Ev</li> <li>ph</li> <li>eco</li> <li>Qua</li> </ul>	aluation of the project area in terms of ysical, geotechnical, hydrogeological and onomic properties antity takeoff

\*710.000,00 TL is 108.019,29 € according to exchange rate 6,57 Euro/TL on 12.02.2020 \*\*710.000,00 TL is 117.910,81 \$ according to exchange rate 6,02 USD/TL on 12.02.2020

Project Title	KARS DAM IRRIGATION REVISION AND DOLAYLI-VARLI DAMS PLANNING ENGINEERING SERVICES				
Project Location	Overall project value	Proportion carried out (%)	Name of client	Dates (start/end)	Name of consortium members (if any)
Turkey	907.250,00 TL (461.470,00 €)* (590.657,55 \$)**	100	State Hydraulic Work (DSİ) – 24 <sup>th</sup> . Regional Directory - Kars	07.11.2008 - 20.04.2012	
Detailed description of	project			Types of ser	vices provided
alternatives and Dolaylı within the Planning Rep planned to be irrigated a Varlı Dam in accordance During the period when planned to be operated facilities proposed in the In the period in which th be diverted within 10 me HEPP with an installed of	In 2003, 29 414 H and Irrigation Pl revised as an int were investigated Kars Dam and Ir area can be irr and Varli Dams were als port, a total of 48 908 has along with supplying the e with the population pro- the Kars Dam will be op in the upstream of the H e Master Plan of the Kars he dam will be operated onths between September capacity of 2.24 MW per	ha area determined by the anning Report, which wa egrated irrigation area ar d and revised to give prior rigation Planning Report igated economically to so examined within the so , 47 578 ha from Kars Da domestic water needs of ojections of 2050. perated with current flow Kars Dam until the devel s River Basin Project and with current flows, it is c er and June and will gene	Kars River Basin Project Kars Dam as prepared as planning report, was and all alternative irrigation systems rity to the piped system. In addition, e envisaged to determine how much cover both project areas, energy cope of this work. Im and 1 330 ha from Varlı Dam, is f Digor Town and 13 villages from s, a Hydroelectric Power Plant was lopment of the Dam and Irrigation Çatma HEPP was proposed. alculated that 50.39 hm <sup>3</sup> water will rrate 9.76 GWh Energy with Çatma	<ul> <li>&gt; Top</li> <li>&gt; Hyc</li> <li>&gt; Wai</li> <li>&gt; Lan</li> <li>&gt; Agr</li> <li>Rig</li> <li>&gt; Gec</li> <li>Bui</li> <li>&gt; Dar</li> <li>Opt</li> <li>&gt; Irrig</li> <li>&gt; Env</li> <li>&gt; Tec</li> <li>&gt; GIS</li> </ul>	ographical Survey Irological and Hydraulic Studies eer Supply Works d Classification and Drainage Investigations icultural Economics, Expropriation and Water hts Studies logy, Geotechnics, Hydrogeology and Natural lding Materials Studies n and Appurtenant Structures Design and imization gation Network Design and Optimization ironmental Impact Assessment (EIA) hnical and Economic Analysis Studies

\*907.250,00 TL is 461.470,00 € according to exchange rate 1,96 Euro/TL on 07.11.2008. \*\*907.250,00 TL is 590.657,55 \$ according to exchange rate 1,53 USD/TL on 07.11.2008.

Project Title	REVISION PLANNING FOR ESKISEHIR YUKARI SAKARYA REHABILITATION AND IRRIGATIONS (GOKSU IRRIGATI						
		GOKPINA	R DAM, ILYASPASA AND KAVU	JNCU IR	RIGA	ATIONS)	
<b>Project Location</b>	Overall project value	Proportion carried out (%)	Name of client	Date (start/e	es end)	Name of consortium members (if any)	
Turkey	1.280.000,00 TL (649.746,19 €)* (876.712,33 \$)**	100	State Hydraulic Work (DSİ) – 3 <sup>rd</sup> . Regional Directory - Eskişehir	27.09.2	27.09.2010 - 01.05.2015		
Detailed description of	f project			Types of	of serv	ices provided	
hydrologic, hydraulic, g agricultural economy ar and irrigation networks are conducted for all alt	Within the proje provide 24.73 hr and proposed G applicability of t In the context of various aspects geologic, geotechnical, hy and environmental impact s are designed with at least ternatives and the best eco	ect; it is aimed to irrigat n <sup>3</sup> /year of drinking water kökpınar Dam. A plannin he project in a technical a f feasibility study, the n of the project area and to rdrogeological, soil classi studies are conducted. Wi st three alternatives. Quar ponomical and technical al	e 7715 ha of agricultural land and to Polatlı district from Sakarya river ng report is prepared to show the and economical aspect. nain focus is to identify and study the proposed structures. To do so; fication and drainage investigation, thin these studies proposed storages ntity takeoff and budget estimations lternative is offered to the client	AAAA A A AAAA	Topo Hydi Wate Agrie Soil Stud: Geol Stud: Dam Irriga Envi Tech	ographical Surveying Services, raulic and Hydrological Studies, er Supply Analysis, cultural Economy, Expropriation and Water t Studies, Classification and Drainage Investigation ies ogical, Geotechnical and Hydrogeological ies, Material Investigation Design and Optimization, ation Network Design and Optimization ronmental Impact Analysis nical and Economic Analysis	

\*\* 1.280.000,00 TL is 876.712,33 \$ according to exchange rate 1,46 USD/TL on 27.09.2010.

Project Title		ADIYAMAN GOKSU ARABAN PROJECT PHASE II PLANNING						
Project Location	Overall project value	Proportion carried out (%)	Name of client	Dates (start/end)	Name of consortium members (if any)			
Turkey	820.000,00 TL (407.960,19 €)* (546.666,66 \$)**	100	State Hydraulic Work (DSİ) – 20 <sup>th</sup> . Regional Directory - Kahramanmaraş	06.04.2010 				
Adıyaman Göksu Arab stream and the Haydar planned. In the Adıyam the aforementioned pro Engineering hydrology regulator, and Çetintep Agricultural economy, hectares, including Gaz Pazarcık Kızkapanlı an Expropriation planning obtaining EIA certifica	Within the sco transfer the regu water intake stru- right bank down will fill the Han located at an ele hectares of agri Harmancık, and an Project, the Kısık pro- rlı project for the reinfor an Göksu Araban Project jects have been prepared (water supply and flood e dams. soil drainage, and land tiantep Araban and Yavu d Köksalan plains, and K g reports, geographic info tes for all units of the Ad	pe of the Adıyaman Gök ilated waters in the Çetin ucture and tunnel with a instream of the dam. The rmancık and Çatboğazı o vation of 865.00 m on the cultural land will be irrig d Çatboğazı Dams). Add ject for irrigation and dri rcement of the Kartalka et Phase II Planning Wor : s) reports for Kısık, Hayo classification planning zeli, Adıyaman Besni Ke Cısık Dam irrigation and l pormation systems studies lyaman Göksu Araban pa	su Araban Project, it is planned to the pe Dam to the Aksu Basin via a capacity of 70 m <sup>3</sup> /s located on the waters diverted to the Aksu Basin lams through the Aksu Regulator e Aksu River, and a total of 60,767 gated with three dams (Çetintepe, litionally, within the scope of the nking water purposes on the Kısık ya Dam on the Çelik stream are ek, the following reports related to darlı, Harmancık, Çatboğazı, Aksu reports for a total area of 73,213 ysun and Kızılin, Kahramanmaraş Kartalkaya Dam reinforcement. s, preparation of EIA reports, and roject.	<ul> <li>Hydraulia</li> <li>Agricultu</li> <li>Soil Clas</li> <li>Geologic Studies, I</li> <li>Environn</li> <li>Technica</li> <li>GIS Stud</li> </ul>	c and Hydrological Studies anal Economy, Expropriation Studies sification and Drainage Research Studies al, Geotechnical, and Hydrogeological Material Research mental Impact Analysis 1 and Economic Analysis ies			

\* 820.000,00 TL is 407.960,19 € according to exchange rate 2,01 Euro/TL on 06.04.2010. \*\* 820.000,00 TL is 546.666,66 \$ according to exchange rate 1,50 USD/TL on 06.04.2010.

Project Title	ADIYAMAN GOKSU ARABAN PROJECT PHASE II, SECTION 2 PLANNING WORK					
Project Location	Overall project	Proportion carried	Name of client	Dates	Name of consortium members	
	value	out (%)		(start/end)	(if any)	
Turkey	790.000,00 TL (344.978,16 €)* (427.027,02 \$)**	100	State Hydraulic Work (DSİ) – 20 <sup>th</sup> . Regional Directory - Kahramanmaraş	01.06.2012 - 03.05.2017	-	
Detailed description of	of project			Types of services	provided	
Harmancık, and Çatbo Phase II, Section 2 Pl purposes on the Kısık Kartalkaya Dam on the data (agricultural econo (water supply and flood Information Systems si to the contractor by the scope of this work. The as follows:Kısık Dam: dam with a concrete fa m <sup>3</sup> , irrigating 2,604 he hm <sup>3</sup> . It is a clay-core si providing water reinfor m high from the thalwo irrigation purposes, wi 87.50 m high from the face for irrigation purp	Within the scope of Planning work, the Aksu Basin via a w located on the right the Harmancık and elevation of 865.00 agricultural land i ğazı Dams). Additionally anning work, the "Kısık s stream and the "Hayd c Çelik stream have been omy and expropriation, s ds), engineering geology tudies, preparation of ELA e administration, and the e technical specifications 69.30 m high from the t ace for irrigation and drin ctares.Haydarlı Dam: 37 and-gravel fill dam for ir rcement to the Kartalkaya eg, with a storage volume th a total fill volume of thalweg, with a storage oses, with a total fill volu	f the Adiyaman Göksu A regulated waters in the Ç rater intake structure and bank of the dam. The wa Çatboğazı dams through m on the Aksu River, s planned to be irrigat v, within the scope of the Dam Planning Report" arlı Dam Planning Report" arlı Dam Planning Report oil drainage and land cla and natural building mate A report, and obtaining E contractor has only prepa of the new dams prepare halweg, with a storage v aking water purposes, with a a Dam and irrigating 3,53 of 237.97 hm <sup>3</sup> . It is a roo 4,619,892 m <sup>3</sup> , irrigating volume of 232.48 hm <sup>3</sup> . It ume of 6,541,415 m <sup>3</sup> , irrig	Araban Project Phase II, Section 2 etintepe Dam are transferred to the tunnel with a capacity of 70 m <sup>3</sup> /s ters diverted to the Aksu Basin fill the Aksu Regulator located at an and a total of 60,767 hectares of red with three dams (Çetintepe, Adıyaman Göksu Araban Project for irrigation and drinking water ort" for the reinforcement of the hin the scope of this work, all main ssification, engineering hydrology erials planning reports, Geographic IA certificate) have been provided red the planning reports within the d within the scope of this work are olume of 104 hm <sup>3</sup> . It is a rock-fill th a total fill volume of 2,023,546 m <sup>3</sup> , 8 hectares.Harmancık Dam: 108.5 ck-fill dam with a concrete gating 13,728 hectares.	<ul> <li>Hydrauli</li> <li>Agricultu</li> <li>Soil Clas</li> <li>Geologic Studies, I</li> <li>Environn</li> <li>Technica</li> <li>GIS Stud</li> </ul>	c and Hydrological Studies aral Economy, Expropriation Studies sification and Drainage Research Studies eal, Geotechnical, and Hydrogeological Material Research nental Impact Analysis and Economic Analysis lies	

\* 790.000,00 TL is 344.978,16 € according to exchange rate 2,29 Euro/TL on 01.06.2012 \*\* 790.000,00 TL is 427.027,02 \$ according to exchange rate 1,85 USD/TL on 01.06.2012.

Project Title	PREPARATION OF PLANNING REPORT OF KAHRAMANMARAS-HASANALI SOGUTLU PROJECTS						
Project Location	Overall project	Proportion carried	Name of client	Dates	Name of consortium members		
	value	out (%)		(start/end)	(if any)		
	1.100.000,00 TL		State Hydraulic Work (DSİ) –	12.04.2013			
Turkey	(470.085,47€)*	100	20th. Regional Directory -	_	-		
	(614.525,14 \$)**		Kahramanmaraş	19.01.2017			
Detailed description of	f project			Types of set	vices provided		
$\bigcirc$	Within the scope	e of "Preparation of Kahr	amanmaraş - Hasanali and Söğütlü	> Toj	pographical Surveying Services,		
	Dams Planning I	Report", topographical sur	rveys for the axis and reservoir area,	> Hy	draulic and Hydrological Studies,		
	hydrology plan	ning report, geotechnica	l survey planning report, natural	> Wa	ter Supply Analysis,		
	building materia	als planning report, agric	cultural economy planning report,	Rig	ht Studies.		
expropriation planning report land classification and soil drainage plann			fication and soil drainage planning	> Soil Classification and Drainage Investigation			
	report and final	environmental impact ass	essment report were prepared	Stu	Studies > Geological, Geotechnical and Hydrogeological		
	report and mark	environmentar impaet ass	essment report were prepared.	> Ge			
In the planning report o	f Hasanali dam and irriga	tion; it is planned to irrig	ate a total area of 3047 ha (2723 ha	Studies, Material Investigation			
by gravity and 324 ha b	by pumped irrigation) with	h pressurized and piped in	rrigation with Hasanali dam, which	➢ Irri ➢ En:	<ul> <li>Irrigation Network Design and Optimization</li> <li>Environmental Impact Analysis</li> </ul>		
is located on Hasanali s	tream at 1492 m thalweg	elevation, 66 m height fr	om the thalweg, front face concrete	<ul> <li>Environmental impact Analysis</li> <li>Technical and Economic Analysis</li> </ul>			
covered rockfill dam ty	pe.			> Eva	aluation of the project area in terms of physical,		
Hasanali Dam is dasigr	ad to be 66 m high some	rata facad reals fill irriga	ting 2722 He with growity and 224	geo	technical, hydrogeological and economical		
	led to be of in high conc	rete faced fock fill, iffiga	ung 2725 Ha with gravity and 524	pro	perties		
Ha with pumping.				► Eva	aluation of network alternatives		
Söğütlü Dam is designed to be 45 m high concrete faced rock fill, irrigating 4815 Ha agricultural land with					aluation of pressure layers of the project area		
gravity.					initization of pressure piped network properties		
In addition 4442 ha irrigation water was planned to be diverted from Söğütlü (Tankırankale) Dam to							
downstroom Kovalstore	Dom						
uownstream Kavaktepe	Dam.						
*1 100 000 00 57 : 470 005 4		2.24 E /EL 12.04.2012					

\*1.100.000,00 TL is 470.085,47 € according to exchange rate 2,34 Euro/TL on 12.04.2013. \*\*1.100.000,00 TL is 614.525,14 \$ according to exchange rate 1,79 USD/TL on 12.04.2013.

Project Title	PREPARATION OF FEASIBILITY STUDY OF SIVAS SUŞEHRI SERPINTI CATALOLUK DAM AND IRRIGATION				
Project Location	Overall project value	Proportion carried out (%)	Name of client	Dates (start/end)	Name of consortium members (if any)
Turkey	880.000,00 TL (389.380,53 €)* (494.382,02 \$)**	100	State Hydraulic Work (DSİ) – 19 <sup>th.</sup> Regional Directory - Sivas	21.06.2012 - 13.11.2015	_
Detailed description of	f project		•	Types of serv	rices provided
various aspects of the p geotechnical, hydrogeo environmental impact s are designed with at le alternatives and the bes	The project cons HEPP facilities. HEPPs for estin from the tailwate agricultural land In the context of project area and the prop ological, soil classificati tudies are conducted. Wi ast three alternatives. Qu t economical and technic	ists of the feasibility stud The stored water in da nated production of 5.65 er then will be conveyed to be irrigated. If feasibility study, the n posed structures. To do s on and drainage investi thin these studies propos nantity takeoff and budge al alternative is offered to	dy of Çataloluk Dam, Irrigation and am will be conveyed to 2 cascade GWH and 6.46 GWH. The water to the irrigation area for 2041 ha of nain focus is to identify and study to; hydrologic, hydraulic, geologic, igation, agricultural economy and ted storages and irrigation networks et estimations are conducted for all to the client.	<ul> <li>Topo</li> <li>Hydri</li> <li>Wate</li> <li>Land</li> <li>Agrii</li> <li>Righ</li> <li>HEP</li> <li>Geol</li> <li>Build</li> <li>Dam</li> <li>Optii</li> <li>Irriga</li> <li>Envi</li> <li>Tech</li> <li>GIS</li> </ul>	ographical Survey rological and Hydraulic Studies er Supply Works I Classification and Drainage Investigations cultural Economics, Expropriation and Water ts Studies P design, calculation and optimization ogy, Geotechnics, Hydrogeology and Natural ding Materials Studies and Appurtenant Structures Design and mization ation Network Design and Optimization ronmental Impact Assessment (EIA) unical and Economic Analysis Studies

\*880.000,00 TL is 389.380,53 € according to exchange rate 2,26 Euro/TL on 21.06.2012. \*\*880.000,00 TL is 494.382,02 \$ according to exchange rate 1,78 USD/TL on 21.06.2012.

Project Location       Overall project value       Proportion carried out (%)       Name of client       Dates (start/end)         1.540.000,00 TL (395.084,53 €)*       1.540.000,00 TL (395.084,53 €)*       General Directorate of State Hydraulic Works-Ankara       21.04.2017       -         06.01.2022       -       06.01.2022       -       -       06.01.2022       -	Name of consortium members (if any) - es provided
1.540.000,00 TL (395.084,53 €)* (423.169,92 \$)**       100       General Directorate of State Hydraulic Works-Ankara       21.04.2017 - 06.01.2022         Detailed description of project       Types of services project	- es provided
<ul> <li>With Sapur Dam, 7.57 hm3 of drinking water allocated for Tatvan Municipality, and irrigation water need will be provided for a gross 6750 ha agricultural land (Tatvan district center and Kiyidüzü, Yumurtatepe, Benekli, Örenlik, Çekmece, Hanelmalı, Küçüksu and Yoncabaşı villages of this district and the villages of Güroymak, together with some of the agricultural lands belonging to Tahtalı, Yazıkonak and Aşağı Kolbaşı towns). The height (88.50</li> <li>m) of the Sapur Dam was determined according to the results of the operation study, taking into account the water need of a total of 6,750 ha of irrigation areas and for 0.24 m3/h drinking water. According to the results of the operation study, NWL: 1.836.12 m was found. The width of the spillway was chosen as 12.00 m in order to remove the flood flow and the excess water during operation of the dam. and according studies carried out regarding this crest width, max.WL: 1.836.65 m, (Ho: 0.53 m) was calculated. The crest elevation of the dam was found to be 1,838,50 m by adding 1,70 m, which is the free board calculated for the Sapur Dam.</li> </ul>	ulic and Hydrological Studies, r Supply Analysis, ultural Economy, priation and Water Right Studies, Classification and Drainage Investigation es, Geological, Geotechnical and ogeological Studies, rial Investigation, Dam Design and dization, ion Network Design and Optimization, onmental Impact Analysis, Technical and omic Analysis, ation of the project area in terms of
Physical, physical, economic Quantity ▶ Quantity *1 540,000,00 TL is 395,084 53 € according to exchange rate 3.89 Euro/TL on 21.04 2017	cal, geotechnical, hydrogeological and mical properties, properties, tity take-off, t estimation

Project Title	PREPARATION OF FEASIBILITY REPORTS FOR EFRENK DAM					
Project Legistian	Overall project Proportion carried		Nome of client	Dates	Name of consortium members	
1 Toject Location	value	out (%)	Name of chent	(start/end)	(if any)	
Turkey	1.630.000,00 TL (377.454,61 €)* (443.561,55 \$)**	100	General Directorate of State Hydraulic Works-Ankara	18.10.2017 - 22.12.2022	-	
Detailed description of	f project			Types of ser	vices provided	
In the context of feasibilit the proposed structure classification and drait conducted. Within these alternatives. Quantity the and technical alternatives	Within the conte dam with irrigati in Mersin provir of 3200 hectare energy to be gen province. lity study, the main focus s. To do so; hydrologio nage investigation, agri e studies proposed storag keoff and budget estimati e is offered to the client.	ext of this project, feasibili on, drinking water, energy ce. With the proposed sto s of agricultural land is p erated and 11 hm3 drinki is to identify and study va c, hydraulic, geologic, g cultural economy and e ges and irrigation networ ons are conducted for all a	ty studies performed for 108 m high y and flood control purposes located orages and irrigation facilities, total planned to be cultivated, 54 GWh ng water to be supplied for Mersin rious aspects of the project area and geotechnical, hydrogeological, soil environmental impact studies are ks are designed with at least three alternatives and the best economical	<ul> <li>Hyd</li> <li>Wa</li> <li>Wa</li> <li>Agr Rig</li> <li>Soi Geo</li> <li>Sur</li> <li>Nat</li> <li>Dar</li> <li>Nat</li> <li>Dar</li> <li>Net</li> <li>Env</li> <li>Tec the</li> <li>hyd</li> <li>Eva</li> <li>Eva</li> <li>area</li> <li>Opt</li> <li>Qua</li> <li>Bud</li> </ul>	draulic and Hydrological Studies, ter Supply Analysis, ricultural Economics, Expropriation and Water ht Studies, l Classification and Drainage Survey, ological, Geotechnical and Hydrogeological veys, ural Material Study, n Design and Optimization, Irrigation work Design and Optimization, rironmental Impact Assessment, hnical and Economic Analysis, Evaluation of project area in terms of physical, geotechnical, rogeological and economic characteristics, luation of network alternatives, luation of the pressure strata of the project a, imization of pressure pipe network properties, untity take-off, lget forecast	

\*1.630.000,00 TL is 377.454,61 € according to exchange rate 4,31 Euro/TL on 18.10.2017 \*\*1.630.000,00 TL is 443.561,55 \$ according to exchange rate 3,67 USD/TL on 18.10.2017

Project Title	WATER STRUCTURE SUPERVISION SERVICES OF GE				LEN DIVERSION WEIR AND HEPP		
Project Location	Overall project	Proportion carried	Name of client	Dates	Name of consortium members		
Toject Location	value	out (%)	Name of cheft	(start/end)	(if any)		
Turkey	765.000,00 TL (169.924,70 €)* (197.930,14 \$)**	70	State Hydraulic Work (DSİ) – 22 <sup>nd</sup> . Regional Directory - Trabzon	13.11.2017 _ 17.12.2018	Pusula Su Yapıları Denetim Hizmetleri Limited Şirketi		
Detailed description of	f project			Types of serv	rices provided		
injection works, materia within the scope of the preparation, control ar - all supervision and co the facility to be put into - construction and main In this context; Gelen D type weir, 1 loading poor approved feasibility an inspection and supervision	The scope of wo - Ensuring that schedule, project - Supervision se (solids, spillway hydromechanica transmission stru- al transportation and trans- work), and approval of all detailed ontrol activities carried ou o operation atenance up to the final activities piversion Weir and HEPP ol, 4 m diameter circular and final project of const ion in construction	ork includes the following the works are carried of as and technical specificat ervices during the const y, weirs, water intake I equipment and install actures, penstock and rela sportation roads and all no design components as re- at during the period of time ceptance. Project consist of 1 contro- cross section of 1545 m lea ruction works and the c	g items: out in accordance with the work ions, ruction phase of all the facilities structures, diversion, bottom-up, lation, energy entrance structure, ted structures, tail water structures, ecessary structures that constructed equired; ne for the temporary acceptance of olled flat cover concrete filled body ength tunnel in accordance with the consultancy services regarding the	<ul> <li>Cons</li> <li>Expr</li> <li>Acce</li> <li>Wein</li> <li>Tunr</li> <li>Hydr</li> <li>work</li> <li>Tran</li> <li>Tailv</li> <li>Ener</li> <li>Open</li> <li>Secu</li> <li>Safet</li> </ul>	struction of Structures sopriation Works ess Roads Body and Cofferdams hel facilities romechanical Equipment Works Injection s smission Pipes water Dredging gy Supply and Displacement Facilities rating Facilities rity and Safety Measures, Occupational ty and Insurance		

\*765.000,00 TL is 169.924,70 € according to exchange rate 4,50 Euro/TL on 13.11.2017. \*\*765.000,00 TL is 197.930,14 \$ according to exchange rate 3,86 USD/TL on 13.11.2017.

Project Title	BI-COMMUNAL REUSE PROJECT OF TREATED WASTEWATER AND SLUDGE GENERATED AT THE NEW NICOSIA WWTP						
Project Location	Overall project value	Proportion carried out (%)	Name of client	Dates (start/end)	Name of consortium members (if any)		
Cyprus	334.800,00 € (1.037.880,00 TL)* (365.936,40 \$)**	50	European Commission - Brussels	04.11.2015  24.11.2020	io Çevre Çözümleri Araştırma Geliştirme Ltd. Şti.		
Detailed description of	The project	that was awarded by the l	European Commission, includes the	Types of services provided			
European Commission	feasibility st treated waste Water Treatn of the selec prepared. The followin and Design I	udy of necessary infras ewater and treaded sludg nent Plant in Hasköy for a ted alternative is comp ng activities were carried Phases:	tructure alternatives to utilize the ge produced in New Nicosia Waste agricultural use. The detailed design leted and tender documents were out during the Planning/Feasibility	<ul> <li>Hydr</li> <li>Hydr</li> <li>Agri</li> <li>Righ</li> <li>Geol</li> <li>Stud</li> <li>Rese</li> <li>Opti</li> </ul>	raulic Studies, cultural Economy, Expropriation and Water at Studies, logical, Geotechnical and Hydrogeological ies, Material Investigation ervoir and Appurtenant Structures Design and mization		
Collection and review	of data and information,			Irrigation Transmission Network Design and Optimization			
<ul> <li>Execution of field measurements including Topographic survey, Geotechnical Investigations,</li> <li>Meetings with EUPSO, the Representatives of Water Development Department of the Republic of Cyprus, the Sewerage Board of Nicosia, Turkish Municipality of Nicosia, "Office of Irrigation", "Public Farm" and the New Nicosia WWTP operation and maintenance Contractor,</li> </ul>					<ul> <li>Laboratory Analysis</li> <li>Environmental Impact Analysis</li> <li>Technical and Economic Analysis</li> <li>Evaluation of the project area in terms of</li> </ul>		
• Site visits along the pr	oposed pipeline routes,	· · · · · · · · · · · · · · · · · · ·		phys	ical, geotechnical, hydrogeological and		
<ul> <li>Preparation of the Environmental Report,</li> <li>Preparation of the Financial Analysis,</li> <li>Preparation of a Water Sharing Agreement,</li> <li>Preparation of a detailed hydraulic model,</li> <li>Detailed design of the proposed pipeline routes, balancing tank, pumping station and water reservoir,</li> </ul>				<ul> <li>Final Drawings of Reservoir Body and Appurtenant Structures</li> <li>Final drawings of pressure piped network and engineering structures</li> <li>Preparation of Project Reports</li> </ul>			
• Preparation of Tender	Documents.						

\*334.800,00 € is 1.037.880,00 TL according to exchange rate 3,100 Euro/TL on 04.11.2015. \*\*334.800,00 € is 365.936,40 \$ according to exchange rate 1,093 Euro/USD on 04.11.2015.

Project Title	SAKARYA BASIN RIVER BASIN MANAGEMENT PLAN PREPARATION PROJECT					
Project Location	Overall project	Proportion carried	Name of client	Dates	Name of consortium members	
	value	out (%)	Name of cheft	(start/end)	(if any)	
Turkey	3.135.712,74 TL (334.376,15 €)* (394.881,27 \$)**	100	General Directorate of Water Management-Ankara	25.03.2021 - 19.09.2023	-	
Detailed description o	f project			Types of serv	vices provided	
implementation of the med directive and to manage a In other words, water bodi The basic structure of the achieve the directive goal together, long-term evalu pressures within the basis transitional waters and co The objectives of the direct sustainable, balanced and development of the aqui of priority substances a contribute to alleviating further pollution. The ri- bodies and to achieve "	The main scope of the p the protection and plannin Turkey with integrated w Water Framework Directi The overall objective (imp in all surface and ground w The Water Framework D environmental objectives assures determined to achiev Il water resources within the tes can be defined as the sma WFD consists of integrated s. Integrated river basin mat ination of threats and oppor in. The Directive covers all astal waters up to 1 nautical ettive are to protect and impro- equitable water use for lor fatic ecosystem through sp and preventing the discharg the impacts of floods and nain goal of the directive good status" in all water l	roject was to prepare "Sakat g of surface waters and grou ater resources management ve. bact) is preparing the program water bodies in the Sakarya irective (2000/60/EC) is co for all water resources ve the environmental objecti e scope of the directive, "wai llest water resources that can a river basin management, w magement allows different so tunities, and monitoring of ll water bodies, including mile (1852 m) ove on water resources and p ng-term protection of water pecial measures such as re rge or decommissioning of d droughts by reducing gr	rya River Basin Management Plan" for undwater in the Sakarya River Basin in approach, in compliance with the EU m of measures to achieve "good status" River Basin. mprehensive legislation that sets clear in Europe. In order to ensure the ves determined within the scope of the ter bodies" are explained as basic units. In be managed within the scope of WFD. which is put forward as the main tool to ectors and water users to be considered the positive and negative impacts of surface and subsurface inland waters, revent deterioration in quality; ensuring resources; ensuring the protection and educing the discharge and emission of priority hazardous substances; to oundwater pollution and preventing on in the status of all surface water es.	<ul> <li>Char</li> <li>Char</li> <li>Sign</li> <li>Mon</li> <li>Envi</li> <li>Prog</li> <li>Ecor</li> <li>Mod</li> <li>GIS</li> <li>Saka</li> <li>Strat</li> <li>Saka</li> </ul>	racterization Report ificant Water Management Issues Report itoring Report ronmental Objectives Report ram of Measures Report nomic Analysis Report delling Report Report rya River Basin Management Plan Report egic Environmental Assessment Report arya River Basin Introductory Film	

\*3.135.712,74 TL is 334.376,15 € according to exchange rate 9,37 Euro/TL on 25.03.2021 \*\*3.135.712,74 TL is 394.881,27 according to exchange rate 7,94 USD/TL on 25.03.2021

Project Title	MANISA ORGANIZED INDUSTRIAL ZONE INDUSTRIAL WATER SUPPLY PROJECT WORK					
Project Location	Overall project	Proportion carried	Name of client	Dates	Name of consortium members	
	value	out (%)		(start/end)	(if any)	
Turkey	2.600.000,00 TL (360.825,45 €)* (424.559,11 \$)**	100	Manisa Organized Industrial Zone Manisa	25.09.2018 - Ongoing	-	
Detailed description o	f project			Types of serv	rices provided	
water rights and EIA structures and irrigation alternatives have been of conducted and the most The pool is in the final body alternatives at the the pool, the stability, s pond body type was def final dimensions of the body (sediment waste, Necessary hydraulic, si quantitative analysis of prepared and submitted At the stage of final pro- been studied in detail of have been tested and op and approximate calcul	In frame of project; I been prepared. It is ex- year of drinking water The project; It was im As part of planning wa proposed structures fr the most suitable alt hydrology, hydraulic were carried out. In the on network have been e optimized and designed for t appropriate alternative f I stage of the project; Ne planning stage and the be eismic and dynamic analy termined. The general pla se facilities were evaluated bottom of the diversio tatic and reinforced conc f the pool body and aux to the management for a oject of drinking water n in the ground. network pr timized. The design sheet ations of the drinking wa	Plan reports and projects spedient to provide Istan with the structures proper plemented in two stages, ork; The aim is to study the om a technical and econo- cernative for the project s, geology, geotechnica- light of these studies, the xplored. Trunk and aux or each alternative. A fease or the project was present cessary engineering work ody of the pond was exam yzes of the pond body we in of the pond and the geo- ed and the general plan o in channel, regulating var rete calculations were pe- iliary facilities were car pproval. etwork; The alternatives essure pipes designed wi s of the irrigation floor we ter network.	of Gürle and Kırkgecit dams have bul province with only 3.67 hm3 / osed within the project. planning and final project. ne project area in detail, to study the mic point of view and to determine . To the end of this; surveying, l, hydrogeology, collectivization, nree alternative proposed reservoir iliary facilities and irrigation line biblity study of the alternatives was ted to management. As were carried out on the selected hined in detail. During the design of re carried out and the most suitable ological structure of the soil and the f the auxiliary facilities of the dam alve chamber, etc.) was prepared. erformed. Detailed exploration and ried out, final project sheets were selected at the planning stage have th a pressure pipe irrigation system ere prepared with detailed quantities	<ul> <li>Prepion</li> <li>Prepion</li> <li>Wa</li> <li>Alia</li> <li>Geo</li> <li>Res</li> <li>Des</li> <li>App</li> <li>Des</li> <li>App</li> <li>Des</li> <li>App</li> <li>Des</li> <li>Env</li> <li>Tec</li> <li>De</li> <li>Strution</li> <li>Net</li> <li>Det</li> <li>Prepion</li> <li>and A</li> </ul>	paration of Project Area Maps ter Supply Research enation and Water Rights Studies ology, Geotechnics, Hydrogeology and earch of Natural Building Materials sign and Optimization of Dam Body And purtenant Structures Drinking Water Network sign and Optimization vironmental Impact Assessment (EIA) chnical and Economic Analysis tailed Design of Dam Body and Appurtenant actures Detailed Design of Drinking Water work ailed Design of Drinking Water Treatment nt aration of Floor Design Sheets for Dam Body Appurtenant Structures	

Project Title	ALIAĞA CHEMICAL SPECIALIZATION AND MIXED ORGANIZED INDUSTRIAL ZONE INDUSTRIAL WAT					
rioject fille			PROJECT			
Project Location	Overall project	Proportion carried	Name of client	Dates	Name of consortium members	
	value	out (%)		(start/end)	(if any)	
	1.125.000,00 TL			1410.0001		
Turkey	(70.312,5€)*	100	Aliaga Organized Industrial Zone	14.12.2021	_	
Turkey	(79.367,87 \$)**	100	- 121111	- Ongoing		
Detailed description of	f project			Types of serv	vices provided	
8607073372872862707333	With the faciliti	es proposed within the s	scope of the project, it is aimed to	> Pre	paration of Project Area Maps	
	supplement (supp	ort) the existing resource	s of Aliağa Chemical Specialization	> Wa	ter Supply Research	
	and Mixed Organ	ized Industrial Zone with	3.58 hm3/year of industrial water.	× •••		
	The project; It wa	is implemented in two sta	ges, planning and final project.	> Ali	enation and Water Rights Studies	
Aliaga Kimya intisas ve Karma Organize Sanaj	By storing the wa	aters of Karazeytin Stream	m, 1 storage place with a height of	> Ge	ology, Geotechnics, Hydrogeology and	
39.50 m from the thal	veg, clay core rock fillir	ng, a 3 m high gabion w	all on Kocaçay and a regulator on	Re	search of Natural Building Materials	
Sirceçayı were construc	eted.			> De	sign and Optimization of Housing and	
As part of planning wor	k; The aim is to study th	e project area in detail, to	study the proposed structures from	Δ11	xiliary Facilities	
a technical and econom	ic point of view and to d	etermine the most suitable	e alternative for the project. To the	nu Nu		
rights and EIA were ca	rried out. In the light of	these studies, three alterr	ative proposed reservoir structures		nking water Network Design and	
and irrigation networks	have been explored. Tru	nk and auxiliary facilities	and irrigation network alternatives	Op	timization	
have been optimized an	d designed for each alter	native. A feasibility stud	y of the alternatives was conducted	≻ En	vironmental Impact Assessment (EIA)	
and the most appropriat	stage of the project: Ne	ect was presented to mana	agement. ks were carried out on the selected	≻ Teo	chnical and Economic Analysis	
body alternatives at the	planning stage and the b	ody of the pond was exan	nined in detail. During the design of	> De	tailed Design of Dam Body And Appurtenant	
the pool, the stability, se	eismic and dynamic anal	yzes of the pond body we	re carried out and the most suitable	Str	uctures Detailed Design of Drinking Water	
pond body type was determined. The general plan of the pond and the geological structure of the soil and the final dimensions of these facilities were evaluated and the general plan of the surviviliery facilities of the pond					trucale	
body (sediment waste, bottom of the diversion channel, regulating valve chamber, etc.) was prepared.						
Necessary hydraulic, st	atic and reinforced conc	rete calculations were pe	erformed. Detailed exploration and	> De	tailed Design of Drinking Water Treatment	
quantitative analysis of	f the pool body and aux	iliary facilities were car	ried out, final project sheets were	Pla	nt	
prepared and submitted	to the management for a	pproval.		> Prep	aration of Floor Design Sheets for Housing	

\*1.125.000,00 TL is 70.312,5 € according to exchange rate 16,00 Euro/TL on 14.12.2021 \*\*1.125.000,00 TL is 79.367,87 \$ according to exchange rate 14,17 USD/TL on 14.12.2021

Project Title	PLANNING FINAL	DESIGN, AND IMPLE	NEERING SEI	RVICES FOR KULLUPINAR DAM AND	
I Toject Huc		TRANSMISSION	NETWORK, INCLUDING OBT	AINING THE	EIA REPORT
Project Location	Overall project	Proportion carried	Name of client	Dates	Name of consortium members
	value	out (%)		(start/end)	(if any)
Turkey	1.470.000,00 TL (90.684,76 €)* (94.473,00 \$)**	100	General Directorate of Eti Mining Enterprises	16.05.2022 - Ongoing	-
Detailed description o	f project			Types of serv	vices provided
The raw water used at the Emet Boron Operations Directorate is supplied from 5 deep wells located in the K1z1ldere area, connected to the Water Production Unit. When all wells are operated actively, the amount of raw water obtained from the existing wells is approximately 350-360 m <sup>3</sup> /h, varying with the season. In the future, with the addition of reaction and filtration units planned to be added to the ÇABAT facility and a new boiler with a capacity of 30 tons/h, water consumption will increase. It is anticipated that the lifespan of the wells will shorten if the water demand is met from the wells. A planning report will be prepared for a pond and transmission network to be constructed within the Küllüpınar Stream, located at the border of Bahatlar Village, southeast of the Emet Boron Operations Directorate in Emet District, Kütahya Province. In the projects, it is necessary to propose the construction of all facilities (body, tunnel conduit, spillway, transmission network, etc.) deemed technically and economically appropriate as a planning report. All facilities to be proposed for construction will be examined at the planning level.				<ul> <li>Engi</li> <li>Repo</li> <li>Plani</li> <li>Engi</li> <li>Pond</li> <li>Seisi</li> <li>Tran</li> <li>Stabi</li> <li>Envi</li> </ul>	neering Hydrology Preliminary Investigation ort ning Report neering Geology Planning Report I Location Planning Phase Preparation of nic Hazard Analysis Report smission Network Route Study ility Analysis ronmental Impact Assessment (EIA)

\*\*1.470.000,00 TL is 94.473,00 \$ according to exchange rate 15,56 USD/TL on 16.05.2022

	DEVELOPM	ENT OF A FEASIBILIT	<b>FY STUDY AND DESIGN DOCU</b>	MENTATION	FOR THE RESTORATION AND		
<b>Project Title</b>	DEVELOPMENT O	F THE RECLAMATIO	N AND WATER MANAGEMENT	COMPLEX	IN THE TERRITORY OF THE AGDAM		
			REGION				
Project Location	Overall project	Proportion carried	Name of client	Dates	Name of consortium members		
110jeet Boeuton	value	out (%)		(start/end)	(if any)		
Azerbaijan	6.849.015 AZN (3,644,503 €)* (4.028.832 \$)**	50	Azərbaycan Meliorasiya və Su Təsərrüfatı Açıq Səhmdar Cəmiyyəti, Tikilməkdə olan Meliorasiya və İrriqasiya Obyektlərinin Birləşmiş Müdiriyyəti- Azerbaijan	04.04.2022 - Ongoing	Suiș Proje Mühendislik		
Detailed description o	f project			Types of serv	ices provided		
Detailed description of project The technical assignment stated that there were 47,700 hectares of irrigated land in the liberated territories of the Aghdam region. However, according to funds and archival materials, before the occupation of Aghdam region, the total irrigated area of the region was 47,700 hectares, of which about 27,280 hectares. As a result of the resettlement of internally displaced persons from the occupied territories of the district to other areas, the irrigated land area in the unoccupied territories of the district reached 35,400 hectares. In this case, about 50 percent of the irrigation area of the Tartarchay Right Bank canal is located in the freed areas of the Aghdam region. In accordance with the terms of the contract and the requirements of the technical assignment, it is planned to prepare the TIA and project documentation for the reconstruction and development of the reclamation and water management complex in the liberated territory of the Aghdam region.					aration of Project Area Maps cological and Hydraulic Surveys er Supply Research cultural Economics, Community and Water Studies classification and drainage works ogy, Geotechnical, Hydrogeology and ral Building Materials Research gn and optimization of body and ancillary oment ation Network design and optimization ronmental Impact Assessment (EIA) nical and Economic Analysis iled design of body and auxiliary devices anced Irrigation Network Design aration of floor design sheets for body and lary equipment		
<b>Project</b> Title	PREPARATION WORKS TO BE DONE FOR OBTAINING PERMITS RELATING WITH MUT AND KAYRAKTEPE PROJECT						
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110ject 11tle	PLANNING ENGINEERING SERVICES AND ELECTRICAL PRODUCTION LICENSE AND THE					AND THE ENGINEERING SERVICES	
Project Location	<b>Overall project</b>	Proportion carried	Name of client	Dates		Name of consortium members	
	value	out (%)		(start/	end)	(if any)	
	4.390.000,00 TL	100	State Hydraulic Work (DSİ) – 6 <sup>th</sup> . Regional Directory – Adana	24.07.2020			
Turkey	(553.607,90€)*					_	
	(642.254,18 \$)**			Ongo	ing		
Detailed description of	f project			Types of services provided			
With Mut dam considered to be built on Göksu river in districts of Mut and				Preparation of project field maps			
	Silifke;	Silifke; Agricultural land of 16 500 ha will be irrigated and energy amounting to			Hyd	raulic and hydrologic studies	
	A grioultural la				Wat	er procurement studies	
	Agricultural la				Agri	cultural economy, expropriation, protection	
	269,5 Gwn will be generated annually.				agai	nst floods, and water rights surveys	
	Purpose of Ka	Purpose of Kayraktepe Dam is to generate energy, to protect against floods			Land	l classification and drainage surveys	
	and for irrigati	and for irrigation. With the dam land of 6387 ha will be protected against			Geological, geotechnical, hydro-geo		
flood and energy amoun	nting to 688,82 GWh will	be produced annually and	d area of 7 230 ha will be irrigated.		natu	ral structural material studies	
Within scope of plannin	ng studies, it is aimed to	examine the project field	in detail and to determine the most	≻	Desi	gning and Dam Body and Appurtenant	
suitable one for project	by examining proposed s	tructures with respect to t	echnical and economic aspects. For	Structures Designing and optimization			
this purpose: mapping.	hydrology, hydraulics, g	eology, geotechnical, hy	drogeology, land classification and		irrig	ation network	
drainage, agricultural ec	conomy, expropriation, w	vater rights, flood and EL	A studies are carried out. Under the	$\checkmark$	Desi	gning and optimization of energy structures	
light of these studies proposed storage structure, energy structures and irrigation network were studied as three					Desi	gning and optimization of flood structures	
alternatives. For each alternative trunk and auxiliary facilities and irritation line alternatives were designed by					Env	ronmental impact assessment (EIA)	
anematives. For each anemative truth and auxiliary factifies and impation line anematives were designed by					Tech	nnical and economical analysis	
being optimized. By realizing technical and economic analysis of alternatives most suitable alternative for							
project was presented to the administration.							
+4.000.000.00 TX - 550.007.00							

\*4.390.000,00 TL is 553.607,90 € according to exchange rate 7,92 Euro/TL on 24.07.2020 \*\*4.390.000,00 TL is 642.254,18 \$ according to exchange rate 6,83 USD/TL on 24.07.2020

Project Title	PLANNING ENGINEERING SERVICES FOR THE AYŞEHATUN DAM AND HEPP AND KOR DAM AND HEPP PROJECTS IN BITLIS						
Project Location	Overall project value	Proportion carried out (%)	Name of client	Dates (start/end)		Name of consortium members (if any)	
14.966.425,00 TL         (743.171,07 €)*         (798.975,26 \$)**		100	General Directorate of State Hydraulic Works-Ankara	10.01.2023 - Ongoing		-	
Detailed description of	project			Types of	of servic	es provided	
	In the Southe	astern Anatolia Region,	within the Dicle Sub-Basin, in the	Preparation of project field maps			
	Mutki District	Mutki District of Bitlis Province, a main data and planning report will be			Hydraulic and hydrologic studies		
	prepared at the	e planning level for the Ayşehatun Dam and HEPP and the Kor PP. Additionally, if the irrigation water is sufficient as a result ir operation study of the Ayşehatun Dam and HEPP and the		$\triangleright$	<ul><li>Water procurement studies</li></ul>		
	Dam and HEP			≻	Agricu	ltural economy, expropriation, protection	
	// of the reservoir				against	floods, and water rights surveys	
	Kor Dam and H	Kor Dam and HEPP Projects, approximately 7400 hectares of irrigation area,			Land c	lassification and drainage surveys	
which is outside the 22,691 hectares of irrigation area and has existing		$\triangleright$	Geolog	gical, geotechnical, hydro-geological,			
studies, will be included in the scope of work. If more than 7400 hectares of land are irrigated as a result of the					natural	structural material studies	
operational studies, the water budget conditions will evaluate how much of the approximately 25,000 hectares					Design	ing and Dam Body and Appurtenant	
downstream of the project can be irrigated. In the areas that can be irrigated, land classification-soil drainage					Structu	res Designing and optimization of	
studies and agricultural economy studies will be conducted, and a planning report will be prepared. After the					irrigati	on network	
Ayşehatun Dam and HEPP and the Kor Dam and HEPP projects are completed and put into operation, cost					Design	ing and optimization of energy structures	
analyses will be conducted, and share ratios for each purpose will be calculated and presented within the scope					Design	ing and optimization of flood structures	
of the planning report, due to the irrigation from the Garzan Dam, which is currently completed and in operation				≻	Enviro	nmental impact assessment (EIA)	
for energy production.				≻	Techni	cal and economical analysis	

\*14.966.425,00 TL is 743.171,07 € according to exchange rate 20,13 Euro/TL on 10.01.2023 \*\*14.966.425,00 TL is 798.975,26 \$ according to exchange rate 18,75 USD/TL on 10.01.2023

Project Title	PREPARATI	ON OF THE PLANNIN	<b>XIPAZAR ADILLER DAM AND IRRIGATION</b>				
Project Location	Overall project	Proportion carried	Name of client	Dates	Name of consortium members		
	value	out (%)		(start/end)	(if any)		
Turkey	5.217.000,00 TL (149.487,66 €)* (161.233,49 \$)**	100	State Hydraulic Work (DSİ) – 23 <sup>rd.</sup> Regional Directory – Kastamonu	01.04.2024 - Ongoing	-		
Detailed description of	f project	•		Types of services provided			
	As part of the	Karabük Eskipazar Adille	er Dam project, a feasibility study is	> Prep	aration and Approval of Hydrology Planning		
	being conduct	ed for the pond and irrig	gation facility. The project aims to	Repo	ort Preparation and Approval of Agricultural		
	irrigate a gros	irrigate a gross agricultural area of 4500 hectares. The main focus of the			Economy Report		
	feasibility stud	feasibility study is to identify and examine various aspects of the project area			> Preparation and Approval of Expropriation Report		
	and the prope	and the proposed structures. For this purpose, hydrological, hydraulic,			Preparation and Approval of Land Classification		
geological, geo research, agricu		otechnical, hydrogeological, soil classification and drainage		<ul> <li>Soil and Drainage Report</li> </ul>			
		ultural economy, and environmental impact studies are being		> Prep	reparation and Approval of Geotechnical Study		
conducted. Within the scope of these studies, the proposed dam type and irrigation networks are designed with					ort at the Planning Stage Preparation and		
at least three alternatives. Quantity and budget calculations are made for all alternatives, and the most				App	roval of Natural Building Materials Report		
economical and technical alternative is presented to the employer.				Inter Impa nece Plan Syste	im Planning Report EIA (Environmental act Assessment) studies and obtaining ssary permits Preparation and Approval of ning Report GIS (Geographic Information em) Studies and Approval		
*5.217.000,00 TL is 149.487,6 **5.217.000,00 TL is 161.233,	6 € according to exchange rate 49 \$ according to exchange rate	34.89 Euro/TL on 01.04.2024 e 32.35 USD/TL on 01.04.2024					

Project Title	PREPARATION OF THE IRRIGATION PROJECT FOR INECIK 1-2 DAMS						
Project Location	Overall project	Proportion carried	Name of client	Date	es	Name of consortium members	
	value	out (%)		(start/e	end)	(if any)	
	997.980,00 TL		State Hadrenslin Wards (DSI) 11st	05.06.2	000		
Turkey	(44.137,90€)*	100	State Hydraulic Work $(DSI) - 11^{aa}$ Regional Directory – Edirne	05.06.2	.023	_	
1 41110 9	(47.193,62 \$)**		Regional Directory Lanne	Ongoi	ing		
Detailed description of	f project			Types of	Types of services provided		
-	Within the sco	pe of the "Construction o	f the Irrigation Project for İnecik 1-	> Topographical Survey			
	2 Dams," it i	2 Dams," it is aimed to irrigate approximately 871 hectares of gross			<ul> <li>Hydraulic Calculations</li> </ul>		
	agricultural lar	nd. The project's water s	ource is the İnecik-1 and İnecik-2	$\triangleright$	Geology, Geotechnics, Hydrogeology and Natural		
	Dams, and the water taken from these dams will be conveyed to the irrigation			Building Materials Studies			
	areas through irrigation networks.				<ul> <li>Irrigation Network Design and Optimization</li> </ul>		
1/25000 scale 1/5000 scale in		general layout plan (including roads and material quarries)		Technical and Economic Analysis			
		rigation general layout plan Canal plans and profiles (1/5000,		$\triangleright$	Irrigation Pipeline Plan - Profile Design		
1/100 scale) and 1/100 scale cross-sections Irrigation Network plans and profiles (1/5000, 1/100 scale) and					<ul> <li>Final drawings of pipeline network and</li> </ul>		
1/100 scale cross-sections Preliminary Project Report Operation-maintenance and access road projects Steel					engi	neering structures	
pipe projects and soil analysis report for cathodic protection and projects for all types of structures (to be					Prep	aration of Project Report	
designed by the engineer within the framework of the "General Technical Specifications for the Construction					<ul> <li>Detailed Quantity Takeoff and Cost Estimation</li> </ul>		
of Structures" and the "Technical Specifications for the Construction of Piped Network Structures" and					GIS	Studies	
submitted to the Administration for approval) All kinds of reports specified for project preparation in both the							
General Specifications for Project Preparation and the general specifications Technical specifications and							
other documents required for the construction of the project, supply, and installation of equipment Engineering							
Geology Report for implementation. Comparative alternatives for the irrigation network route study Table							
showing the locations and characteristics of pipe joint parts and detailed assembly-disassembly projects Table							
of characteristics of discharge and drainage channels, drainage type sections to be submitted to DSİ by the							
engineer ENH and automation system							

\*997.980,00 TL is 44.137,90 € according to exchange rate 22.61 Euro/TL on 05.06.2023 \*\*997.980,00 TL is 47.193,62 \$ according to exchange rate 21.14 USD/TL on 05.06.2023

Project Title	PREPARATION OF SECTORAL WATER ALLOCATION PLANS FOR SAKARYA AND SUSURLUK BASINS						
Project Location	Overall project	Proportion carried	Name of client	Dates	Name of consortium members		
	value	out (%)		(start/end)	(if any)		
Turkey	15.351.000,00 TL (492.703,01 €)* (531.224,26 \$)**	100	General Directorate of Water Management - Ankara	08.12.2023 - Ongoing	-		
Detailed description of	f project			Types of services provided			
	In order to ensure the	e sharing of water resour	ces at the basin and sub-basin scale,	<ul> <li>Current Situation Analysis</li> </ul>			
TIM GENEL MUS	plan for the future, ar	plan for the future, and meet the water needs of each sector in a fair, efficient, and			Population Analyses		
A CAL	sustainable manner, i	t is aimed to prepare "Sec	<ul> <li>Water Potential of the Basin and Water Uses in the Basin</li> <li>Socio-Economic Characteristics of the Basin</li> <li>Planning Studies in the Basin and Identification of</li> </ul>				
3	Sakarya and Susurlu	ik Basins. The hydrolog					
	specified, and the cur	rent status of the potentia					
	resources in the basi	n will be determined by					
	the basis the usehie water rotantial of the basis will be calculated. The sectoral			Public and Private Sector Projects			
the basin, the usable water potential of the basin will be calculated. The sectoral				> Wate	er Demand Analysis		
distributions of the curre	ent and projected (designed	ed) surface water uses of	the main sectors in the basin will be	> Drin	king and Utility Water Sector Analysis		
determined. The water r	resources (surface and gro	undwater) used and that c	can be used to meet the drinking and	> Prep	aration and Duration of the Modeling Report		
utility water needs will b	be reviewed, and if there a	are any previously determ	ined protection areas for these water	Sector	oral Water Allocation Maps		
resources, they will be shown on the map. The inflows and outflows of existing dams and dams and the water					oral Water Allocation Action Plan		
use inventory will be extracted.							
Studies will be conducted on the reuse alternatives of treated domestic and industrial wastewater for various							
purposes and the return flows from irrigation. The socio-economic value created by each sectoral activity will							
be calculated. The inventory and evaluation of water transfers made/planned in the basin, and the determination							
and evaluation of water loss and leakage rates from municipal drinking water networks, irrigation systems,							
energy production facilities, and other sectors such as industry and tourism in the basin will be carried out							

\*15.351.000,00 TL is 492.703,01 € according to exchange rate 31.15 Euro/TL on 08.12.2023 \*\*15.351.000,00 TL is 531.224,26 \$ according to exchange rate 28.89 USD/TL on 08.12.2023

Project Title	PROJECT FOR UPDATING THE FLOOD MANAGEMENT PLANS OF THE AKARCAY AND BURDUR BASINS						
Project Location	Overall project value	Proportion carried out (%)	Name of client	Dates (start/end)	Name of consortium members (if any)		
Turkey	38.300.000,00 TL (1.035.414,97 €)* (1.120.538,32 \$)**	100	General Directorate of Water Management - Ankara	25.10.2024 - Ongoing	-		
Detailed description of	f project			Types of ser	Types of services provided		
Detailed description of project         This plan aims to achieve the following objectives:         • Reducing the negative impacts of floods on human health, environment, cultural heritage, social and economic activity         • Planning flood management at basin scale         • Ensuring that the organizations work together in a coordinated manner before, during and after the flood based on the institutional powers and responsibilities of the flood management.         • Increasing public awareness about floods         • Ensuring more efficient use of financial resources         • To clearly determine responsible and relevant institutions and organizations in flood management.         By achieving these objectives, in the Akarcay and Burdur Basins;         • Supporting sustainable development,         • Maximizing the benefits of flood plains,         • Reducing the loss of life and property,         • Protecting the environment, historical and cultural heritage are aimed.					inition of the basin -evaluation of flood risk od hazard maps od risk maps od risk evaluation od management activities to mitigate the flood s od Mitigation Measures table olication, monitoring and update paration of preliminary report on watershed, ioeconomics, land use, water resources, orical floods within the catchment, structing methodology, and building database lies. nducting preliminary Assessment of Flood ks dertaking Hydrology Studies, Preparation of in od Metadata Catalogue forming 2D Hydro-Dynamic Modeling, and paration of Flood Risk Maps od Risk Prioritization Studies, Determination pitigation for minimizing flood risk		
				<ul> <li>Per</li> <li>Pre</li> <li>Pre</li> <li>Flo</li> <li>of r</li> </ul>	paration of Flood Hazard Maps paration of Flood Risk Maps od Risk Prioritization Studies, Determinatio nitigation for minimizing flood risk		

\*38.300.000,00 TL is 1.035.414,97 € according to exchange rate 36.99 Euro/TL on 25.10.2024 \*\*38.300.000,00 TL is 1.120.538,32 \$ according to exchange rate 34.18 USD/TL on 24.10.2024

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