



## Summary of Similar Projects Executed during the last 5 years

THE CONTRACTED AUTHORITY ADDRESS	END-USER	PROJECT NAME	COUNTRY	PROJECT VALUE	YEAR	NO
LIDLAW DREW LTD. Scotland	ETIBANK INTEGRATED ALUMINIUM PLANT	Aluminium Melting Furnaces Combustion & Automatic Control System Modernization. Consultancy, erection supervision, programming and training.			1990 Completed in 1991	6
NUROL CONSTR. CO. INC.	TEKEL Tobacco & Spirit Monopolies	Nevsehir Raki Factory / Design and manufacturing of local control panels, total instrumentation and control system consultancy & erection supervision.			1991 Completed mid 1992	7
NUROL CONSTR. CO. INC.	TEKEL Tobacco & Spirit Monopolies	Nevsehir Raki Factory. Design, supply, programming, erection, start-up and training of factory SCADA system.			1991 Completed mid 1992	8
ISDEMIR INTEGRATED IRON & STEEL PLANT	Same	Coke batteries, Sintering Plant and Turbo Compressors / Design, supply and erection supervision of instrumentation system comprising of 80 sets of Pressure/Flow transmitters including impulse hook-ups.			1990 Completed same year	9
ISDEMIR INTEGRATED IRON & STEEL PLANT	Same	1x150 t/hr – 100 bar Fuel Oil Fired Boilers Combustion and Automatic Control System Modernization. Consultancy, erection supervision, programming and training of the control system based on Westinghouse GPC 1500 programmable multi-loop controllers.			1991 Completed mid 1992	10



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TEK Turkish Electricity Authority	Same	2x2.5 Million kcal Fluidised Bed Boilers / Consultancy for Modernization, Operation & Maintenance Services for 12 months covering instrumentation and PLC based control system.			1992 Completed mid 1993	11
TEK Turkish Electricity Authority	Same	2x2.5 Million kcal Fluidised Bed Boilers / Consultancy for Modernization, Operation & Maintenance Services for 12 months covering instrumentation and PLC based control system.			1992 Completed mid 1993	12
PROKON CONST. CO.INC. / SUMITOMO METAL INDUSTRIES	KARDEMIR INTEGRATED IRON & STEEL MILLS	Sinter Furnace Automatic Control System Modernization. Control system design, material supply, installation, commissioning, start-up and training.			1991 Completed Sept. 1992	13
MUNICIPALITY OF CANKAYA / ANKARA	BELDE CO.INC.	Potable Water Plant / Computer Based Water Sales System. Design, instrumentation supply, erection, commissioning, start-up and training.			1992 Completed same year	14
N. V. TURKSE SHELL	Same	KaraAli Block Station / SCADA system by Radio Telemetry. Total engineering, including detail engineering and procurement bid documentation.			1992 Completed same year	15



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DAVY McKee / WALKER ENG. / PROKON CO.INC.	ERDEMIR INTEGRATED IRON & STEEL MILLS	Blast Furnace & Converter Gas Holders Project / Gas Recovery and Mixing Stations Complete Instrumentation and PLC Based Control System. Including detail engineering, control system design, total supply covering instruments, hot-back-up redundant SIEMENS-TI 565 series PLCs, industrial PCs, gas analysis equipment and hook-up materials. Erection, commissioning and start-up activities.	TURKEY	\$1,652,471-	1992 Completed Dec'96	16
BABCOCK WILCOX-GAMA BOILER INC.	ERDEMIR INTEGRATED IRON & STEEL MILLS	# 5 Multi-Fuel Fired Foiler Unit. Detail engineering and full documentation, Bailey INFI 90 DCS system software implementation.			1993 Completed end of 1994	17
CIMTEK CO. INC.	BURSA CEMENT FACTORY	PLC Based Control and Automation System for Pre-cooled Jet-Pulse Filter Unit. Supply of SIMATIC S5 115 PLC equipment, programming, control panel, test, commissioning and start-up.			1993 Completed Mid 1994	18
COMAG CONTINENTAL MINING CO. INC..	Same	Calsined Magnesium Plant Material Handling, Weighing & Batching, Powderizing and Packing System. Complete instrumentation and PLC-based control system in turnkey basis.			1994 Completed May 1995	19



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BILTEPE HOLDING ALCIPAN GYPSUM FACTORY	Same	Powder Gypsum Plant Material Handling, Weighing & Batching and Packing System. Complete instrumentation and PLC-based control System in turnkey basis.			1994 Completed March'96	20
GENERAL DIRECTORATE OF RURAL AFFARS	Same	Polatli Sabanozu/Yassihoyuk Provinces Irrigation System Automation Project. Comprising 12x160 kWatts pumps. PLC based control system, instrumentation, programming, erection, commissioning and start-up.			1995 Completed May'96	21
YALOVA ELYAF ACRYLIC FIBER PLANT	Same	21,000 Ton/Year new fiber line, including Chemical and Spinning sections. Complete project management, detail engineering, site calibration and erection activities, covering Instrumentation and electricals.	TURKEY	\$500,000-	1995 Completed June'97	22
YALOVA ELYAF ACRYLIC FIBER PLANT	Same	Complete electrical and instrument installations, manufacture of DCS I/O termination panels, MCC panels and other auxiliary panels.	TURKEY	\$1,800,000-	1996 Completed August'97	23
NUH CEMENT FACTORIES INC.	Same	Lime preparation plant including the mill Astoclave Aggregated Concrete Factory. Complete electrical, instrumentation and automation systems. Including detail engineering, control system design, software design, supply of SIEMENS TI 440 based PLC equipment with PC based MMI station, complete field instruments includinga weighing			1996 Completed Dec'96	24



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		systems, low voltage switchboards, erection supervision, commissioning and start-up activities.				
ABB-DANECO	CEBITAS STEEL MILL	PLC Based Control & Automation System for the Dedusting Plant of Melt-Shop, including detail engineering, control system design, supply of SIMATIC S5 115 PLC equipment, control desks, filter cubicles, low voltage switchboards, supervision, commissioning and start-up activities.			1996 Completed Feb'97	25
MANNESMANN DEMAG / MARUBENI / PROKON INC. ANKARA & GERMANY	KARDEMIR INTEGRATED IRON & STEEL MILLS	Converter Gas Cleaning Plant and Complete electrical, instrumentation and automation systems. Including detail engineering, control system design, software design total supply of instrumentation, low voltage electrical system, motors, SIEMENS S5-155 series PLC system with COROS LSB Win MMI stations erection supervision, commissioning and start-up activities.	TURKEY	DM2,693,047	1996 Completed May'99	26



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CIMPROGETTI ITALY	KARDEMIR INTEGRATED IRON & STEEL MILLS	250 ton/day capacity Steel Factory Quicklime Factory. Our activities cover: detail engineering, instruments and material supply, SIEMENS S5-155 based PLC system, control centre design and supply, erection / commissioning supervision services.			1997 Completed Feb'99	27
MINISTRY OF TRANSPORTATION GENERAL DIRECTORATE OF RAILWAYS, PORTS AND AIRPORTS CONSTRUCTION (DLHI) REPUBLIC OF TURKEY	BODRUM-MILAS AIRPORT ADMINISTRATION	Low voltage power distribution monitoring and medium voltage power distribution monitoring and control. Supervisory control and measurement of key parameters at transformers, ABB breakers and UPS units via IEDs. All status I/O are concentrated on RTUs. Control centre is designed with Win NT 4.0 VALMET S/3 SCADA host and console. Complete design, engineering, procurement, panel manufacturing, installation, start-up of the system.			1997 Completed May'99	28
ROMER CO. INC.	BILKENT UNIVERSITY	Bilkent University District Heating System SCADA project. Based on Siemens S7-300 PLC system communicated over Profibus -DP fiber optic hybrid network. SCADA software in Siemens WinCC. Project includes SCADA and MCC panel manufacturing, PLC & SCADA S/W programming, detail design, instrumentation specification supply, total engineering, supervision, commissioning and start-up activities.			1998 Completed June 2000	29



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THE CONTRACTED AUTHORITY ADDRESS	END-USER	PROJECT NAME	COUNTRY	PROJECT VALUE	YEAR	NO
EKON CO. INC.	CEMTAS STELL MILL	Melt-shop De-dusting System Automation. Constricted around Siemens S5-155 PLC and Coros LSB-Win MMI system. Contract includes PLC & MMI panel manufacturing, programming, detail design, complete supply of electrical & instrumentation, erection, commissioning and start-up.			1998 Completed April'99	30
KARDEMIR INTEGRATED IRON & STEEL MILLS	Same	Automation System for 3rd Coke Gas Compressor that will supply the coke gas demand of new Steel Plant. Includes manufacturing of MCC & PLC / Control Panels, related engineering, supply and programming of PLC & MMI, erection supervision, cold / hot test and commissioning. PLC System, Allen-Bradley SLC 500 series, SCADA Software, AIMAX-WIN V 4.2	TURKEY		1999 Completed Feb' 2000	31
METIS CO. INC.	MINISTRY OF DEFENCE NATO INFRASTRUCT. DIVISION	Sabiha Gökçen (Kurtköy) Airport OG SCADA System. Includes Center Power and 25 Transformer Centers. Based on Redundant SCADA SERVER covering: <ul style="list-style-type: none"> <li>• Supply of PLC / RTU system hardware,</li> <li>• Supply and production of SCADA Control Center hardware / software,</li> <li>• Supply and erection of Fiber Optic Communication Cables and Accessories,</li> <li>• Detail engineering and documentation,</li> <li>• Training of technicians / operators,</li> <li>• Erection of Control Center and RTU Panels and general signalization,</li> <li>• Cold / hot tests and commissioning.</li> </ul>			1999 Completed Dec' 2000	32



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THE CONTRACTED AUTHORITY ADDRESS	END-USER	PROJECT NAME	COUNTRY	PROJECT VALUE	YEAR	NO
		SCADA Software, VALMET S/3 (Win NT 4.0), Main PLC Modicon Quantum, Weidmüller RTU's WinBlock Series.				
PEKER-EVSER-KRASNODAR CONSORTIUM	BOTAS CO. INC.	Detail Engineering activities and project documentation for I&C systems of BOTAS Ambarlı CS-2 Compressor Station.	TURKEY	-	1999 Completed May 2000	33
MINISTRY OF OIL / IRAQ	NORTH OIL COMPANY	Modernization of Tank Farm Control and Management System. Including DeltaV DCS system, floating roof tank gauging system, motor operated control valves and all necessary field instrumentation. Detail engineering, control system design, procurement of all material, supervision of erection, commissioning and start-up activities on turn-key delivery bases.	KIRKUK IRAQ	\$2,280,000-	1999 UN Approval (2001) Completed 2002 (Commissioning could not be finished due to the War)	34
ALCATEL / NELES AUTOMATION (VALMET)	BOTAŞ STATE PIPE LINE COMPANY	Modernization of Iraq-Turkey Crude Oil Pipe Line SCADA System based on S/3 Technology of METSO AUTOMATION. Including detail engineering, control system design, supply of RTU stations' material, application software development, manufacturing of all panels, erection, commissioning and start up.	TURKEY	-	1999 UN Approval (2001) Start up Suspended By Feb 2003	35



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THE CONTRACTED AUTHORITY ADDRESS	END-USER	PROJECT NAME	COUNTRY	PROJECT VALUE	YEAR	NO
NELES AUTOMATION (VALMET)	NORTH OIL COMPANY	Modernization of Iraq-Turkey Crude Oil Pipe Line SCADA System based on S/3 Technology of NELES AUTOMATION. Including detail engineering, control system design, application software development, manufacturing of all panels, erection, commissioning and start up.	IRAQ		1999 UN Approval (2001) Contract Suspended By Feb 2003	36
MINISTRY OF OIL / SOMO (STATE OIL MARKETING ORGANIZATION)	NORTH OIL COMPANY	Spare Parts for Siemens Switch Gear at IT1A and IT2A Stations.	IRAQ	-	2000 Completed April 2001	37
DANIEL (UK) CO LTD.	BOTAS GENERAL DIRECTORIAT.	Ceyhan Marine Terminal Jetty Metering & Control System Modernization Project. Duties including: Supply of PLC hardware, cabinets, panel instruments, operator desk, rear projection panel, PLC programming, production of detail engineering documentation, FAT and SAT of system, training, commissioning and start-up services. 2 years after sales service obligation.	TURKEY	GBP664,150-	2000 Completed Dec 2002	38
OZTAS CONSTRUC. CO. ANKARA	ETI HOLDING ANKARA	Emet Bor Plant, New Boric Acid Factory Automation Project. Duties including: Detail engineering documentation of I & C systems (P&ID's, instrument data sheets etc.), supply, programming, erection and commissioning of DCS system. Delta V	TURKEY	\$427,122-	2000 Completed September 2003	39



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THE CONTRACTED AUTHORITY ADDRESS	END-USER	PROJECT NAME	COUNTRY	PROJECT VALUE	YEAR	NO
MINISTRY OF OIL / EFD IRAQ	GAS FILLING CO. (GFC) TAJI	Design and Supply of Control Valves & Instruments For Gas Storage & Filling Plants.	IRAQ	€199,388-	01/2001 Completed April 2004	40
MINISTRY OF OIL / EFD IRAQ	MIDLAND RAFINERIES CO. (MRC)	Manufacturing & Supply of Floodlight Generators and Associated Panels	IRAQ	-	01/2001 Completed April 2004	41
MINISTRY OF OIL / EFD IRAQ	GAS FILLING CO. (GFC) TAJI	Low Voltage Electrical Control Equipment. Design, Manufacture and Supply of Panels	IRAQ	-	01/2001 UN Approval (05/2001) Completed (11/2001)	42
MINISTRY OF OIL / EFD IRAQ	NORTH OIL CO. (N.O.C.) KIRKUK	Protection and Sequencing Control System for Crude Processing Unit. Design, Detailed engineering, Supply, Panel manufacturing programming, supervision of erection, and commissioning of a PLC based control system.	IRAQ	€559,793-	01/2001 UN Approval (10/2001) Completed Sep 2002	43
MINISTRY OF OIL / EFD IRAQ	NORTH OIL CO. (N.O.C.) KIRKUK.	Instrumentation and Control System for the New Crude Processing Unit-11. Detailed engineering, Supply, Panel manufacturing programming, supervision of erection, and commissioning of a PLC based control system and supply of all necessary field instruments and valves.	IRAQ	€318,279-	01/2001 Completed April 2004	44



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THE CONTRACTED AUTHORITY ADDRESS	END-USER	PROJECT NAME	COUNTRY	PROJECT VALUE	YEAR	NO
MINISTRY OF OIL / EFD IRAQ	MIDLAND REFINERIES CO. (MRC)	Rehabilitation of Existing Switchgear for Crude Distillation and Water Treatment Units. -Material Supply and design, -Manufacture of Panel's	IRAQ	€543,342-	02/2001 Completed April 2004	45
MINISTRY OF OIL / EFD IRAQ	NORTH GAS INDUSTRIES (NGI)	Design and Supply of Pneumatic Instrumentation System for Storage Plant	IRAQ		02/2002 Completed December 2002	46
ABB ELEKTRİK SAN. A.Ş. ISTANBUL	BOTAŞ STATE PIPELINE COMPANY	Modernization of Automation (I & C) Systems for Iraq Turkey Crude Oil Pipeline Pump Stations based on ABB's DigiVis DCS System including Design, Detailed Engineering, Manufacturing of Control Center and Station Control Desk, Control Cubicles, Programming of DCS systems, Supply of Instrumentation erection, commissioning, start-up.	TURKEY	\$1,898,500-	09/2002 Completed May 2004	47
ABB (UK) LTD. ST.NEOTS	BOTAŞ / BACHU – TIFLIS – CEYHAN PIPELINE DIRECTORATE (CAUCASION OIL CONSORTIUM)	<b>Software Development Services</b> for Pump Station & Block Valve Controls, Ceyhan Terminal based on ABB's Industrial IT DCS system for the Integrated Control & Scada Systems of the BTC Pipeline	TURKEY	\$335,373-	01/2003 Completed May 2005	48



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PROKON., Inc. (MBEngineering /UK)	İSDEMİR STEEL WORKS	Blast Furnace Gas Holder, Electrical Instrumentation & Control System based on SIMATIC S7 PLCs/ WinCC MMI. Turn-key system services including erection, commissioning & start-up.	TURKEY	€411,925-	07/2004 Completed 02/2006	49
KARDEMİR STEEL WORKS	SAME	Steel Shop Oxygen Plant-Compressor Control System Modernization including surge/antisurge loops-Replacement of old Demag controls with the state of art PLC/MMI based system utilizing AB-SLC5/03, ICS T6200C and InTouch Scada technologies.	TURKEY		10/2004 Completed Apr 2005	50
BERG ELECTRIC LTD.	TÜPRAŞ-OAR RAFINERIES TURKEY	Energy Distribution Systems Modernization. Electrical Scada Sytem including Load Shedding, Automatic Load Transfer, De-coupling Functions, based on Quantum special electrical service PLCs and GE's CIMPLICITY; MHIs. Design Development, Detail Design, Procurement Erection Supervision, FAT/SAT services.	TURKEY	\$1,600,000-	02/2005 Completion by April 2007	51
ABB (UK) LTD. ST.NEOTS	BOTAŞ / BACHU - TIFLIS - CEYHAN PIPELINE DIRECTORATE (CAUCASION OIL CONSORTIUM)	Construction Engineering and SW Commissioning Services for Pump Station & Block Valve Controls, Ceyhan Terminal based on ABB's Industrial IT DCS system for the Integrated Control & Scada Systems of the BTC Pipeline	TURKEY	\$355,809- TILL TODAY but CONTINUING	05/2005 Completion Dec. 2007	52



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THE CONTRACTED AUTHORITY ADDRESS	END-USER	PROJECT NAME	COUNTRY	PROJECT VALUE	YEAR	NO
MAYDA MINING, Inc. Co.	SAME	800t/hr. Coal Washing Plant (Largest in Europe) – Electrical, Instrumentation & Control System based on Quantum PLCs/PRO V7 Scada of Schneider including MV/LV Switchgears, DBs, MCCs. Design Development, Detailed Engineering, Procurement, Erection Supervision, FAT/SAT services	TURKEY	€304,000-	07/2005 Completed March 2006	53
EKON INDUSTRIAL CONSTRUCTION, Inc., Co.	BOLU CEMENT FACTORY Turkey	New Stacker/Reclaimer Facility for Coal Handling- Electrical, Weigh Feeders,&Beltweighers, Instrumentation and Control System based on SIMATIC S7 PLCs/WinCC MMI including integration into the plant DCS-PCS7.	TURKEY	€236,000-	07/2005 Completed Apr. 2006	54
OYAK/EKON/ PROKON (OEP) & FIVECAIL- MAUGUIN CONSORTIUM	KAYSERİ SUGAR FACTORIES.,Co.	New BOĞAZLIYAN Sugar Factory-Electrical Instrumentation & Control systems based on Siemens PCS-7 DCS including all MV/LV DBs, MCCs, Drive Systems. Design Development, Detailed Engineering, Procurement, Erection Supervision, FAT/SAT services	TURKEY	€4,929,598-	10/2005 Completion Jan-2007 Performance by Sep 2007	55



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PROKON., Inc. (SMS Germany MB Engineering /UK)	İSDEMİR STEEL WORKS	BOF Gas Recovery & OG Holder, Electrical Instrumentation & Control System based on SIMATIC S7 PLCs/ WinCC MMI. Services including design development, detailed engineering, manufacturing-supply, programming, erection, commissioning & start-up supervision.	TURKEY	\$1,202,000-	02/2006 Completion 02/2008	56
SCHNEIDER ELECTRIC (TEKFEN A.Ş.)	QATAR PETROLEUM	Ras Laffan-Mesaieed Ethane Pipeline Project: Distribution Management System based on Quantum PLCs and intelligent relays supplied by Schneider. Services including design and programming (MonitorPRO Scada as well) , FAT, commissioning & SAT.	QATAR		07/2006 Completion 04/2007	57
SMS DEMAG AG (GERMANY)	KARDEMİR STEEL WORKS	BOF Gas Recovery & OG Holder, Electrical & Control System based on SIMATIC S7 PLCs/ WinCC MMI. Services including design development, manufacturing-supply of PLC/MCC systems, construction engineering, commissioning & start-up supervision.	TURKEY		10/2006 Completion Supply-04/2006 Plant-02/2008	58
TEKNOTES A.Ş.	İSDEMİR STEEL WORKS	NO.2 Sinter Plant-Relocation/Renewal of Conveying Systems, Electrical Instrumentation F&G, & Control System based on SIMATIC S7 PLCs/ WinCC MMI. Services including design development, detailed engineering, manufacturing-supply, programming, erection, commissioning & start-up supervision.	TURKEY	YTL487,000- + €11,686-	11/2006 Completion 04/2007	59
MAVİ-YEŞİL ÇEVRE TEKNOLOJİLER A.Ş	MAVİ YEŞİL KIRIKKALE TESİSİ	Waste Oil Recovery & Diesel Production Plant: Electrical, Instrumentation & Control System based Quantum PLCs/ WinCC MMI. Services including design development, detailed engineering, manufacturing-supply, programming, erection supervision, commissioning & start-up.	TURKEY		03/2007 Completed 08/2007	60



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PROKON., Inc. (SMS Germany)	İSDEMİR STEEL WORKS	Steel Shop OFF-Gas Holder, Electrical Instrumentation & Control System based on SIMATIC S7 PLCs/ WinCC MMI. Engineering, Manufacturing and Supply system services including supervision of erection, commissioning & start-up.	TURKEY	\$1,202,000-	02/2006 Completion by 06/2007	57
SMS Germany.	KARDEMİR STEEL WORKS	Blast Furnace Gas Holder, Electrical & Control System based on SIMATIC S7 PLCs/ WinCC MMI. Engineering, Manufacturing and Supply system services including supervision of erection, commissioning & start-up.	TURKEY		11/2006 Completion 07/2007	58
BOTAŞ STATE PIPELINE COMPANY	BOTAŞ STATE PIPELINE COMPANY (CEYHAN MARINE TERMINAL)	SCADA based Remote Control system for Iraq Turkey Crude Oil Pipeline Line Valves and new ESD / SD shutdown system based on Control Microsystem RTUs and SCADA package including Design, Detailed Engineering, Manufacturing of SCADA Center , Control Cubicles, Programming of DCS and RTU systems, erection, commissioning, start-up.	TURKEY	1,419,180.-€	01.01.2008 Completion 31.07.2009	59
EKON INC.	CIMPOR- Portugal/Hasano glan Plant	2500TPD. Cement Factory: Services including design development, detailed engineering of complete Electrical, I & C Systems; manufacturing-supply of PCS7 based Plant Control System & Electrical SCADA & Energy Management, programming, erection supervision, commissioning & start-up.	TURKEY	1,087,577.-€	01/2008 Completion by 09/2009	60



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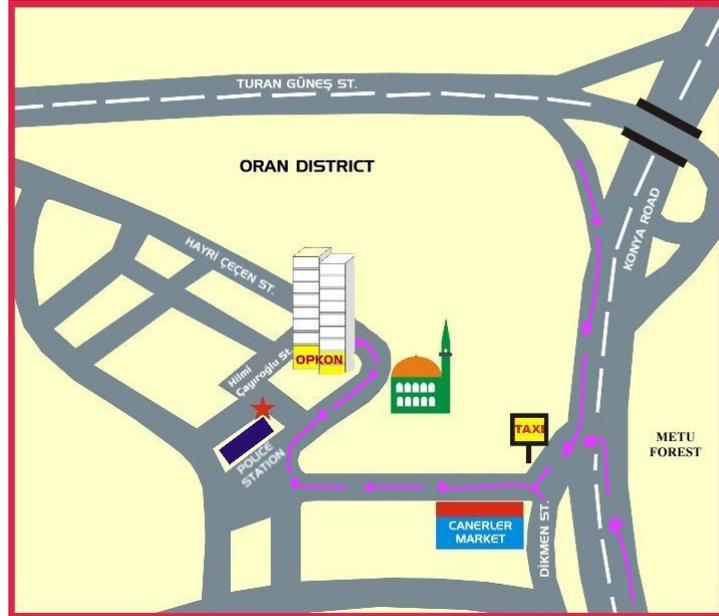
THE CONTRACTED AUTHORITY ADDRESS	END-USER	PROJECT NAME	COUNTRY	PROJECT VALUE	YEAR	NO
ENERDEN LTD.	ERENLER & KALE HEPPs	2x14MW and 3x2,5MW HEPP:Engineering, Manufacturing and Supply, Programming of Plant Control Systems based on Redundant Quantum PLC based System including erection supervision, commissioning & start-up.	TURKEY	230,000.-€	02/2009 completion by 02/2010	61
AZOVIMPEX Ukraine	Alchevsk Steel	Waste Gas Recovery Fuel Supply System for Mitsubishi based GT driven Power Plant: Off-Gas & Blast Furnace Gas Holder, Electrical & Control System based on PCS7 DCS System. Engineering, Manufacturing and Supply system services including supervision of erection, commissioning & start-up.	Ukraine	2,619,183.-€	12/2009 completion by 10/2010	62

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## ADDRESS



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This is to certify that

**Opkon Otomasyon Proses Kontrol Sistemleri Mühendislik San. ve Tic. Ltd. Şti.**

Have been assessed by Verification New Zealand Limited, and have been found to operate a quality management system conforming to

**ISO 9001:2008**

For the following scope:  
**Otomasyon, proses kontrol ve elektrik sistemleri tasarımı**

**The supply of automation, process control and design of electric systems from their site at: Atatürk Sitesi Hilmi Çayiroğlu Sokak Mavi Çam Apt. B-C Blok No:5 Oran, Ankara / Türkiye**

Certificate Number: 61678  
Date of Certification: 30 May 2008  
Date of Expiry: 13 June 2010  
Director:  Date: 11 June 2009



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