



REFERENCES LIST

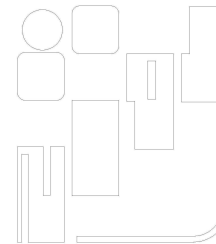
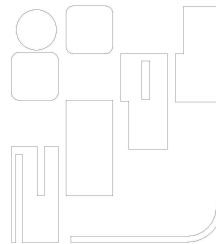
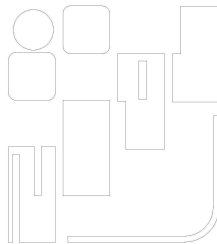
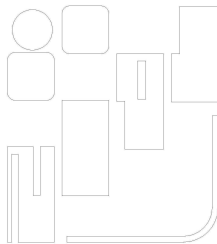
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TAVANEKAR IDEH

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TAVANEKAR IDEH

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Rev.	Description	Prepared	Check	Date

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TAVANEKAR IDEH was established in 1993, with providing services in design and construction of electrical installations.

TKG Co. , is determinant with firm belief , in the context of the adopted resolution and policies , to provide engineering , installation and commissioning services at higher quality through professional personnel , furnishing a sort of good mind for managers and office holders who are responsible as the parties dealing with implementation of these projects , by taking advantage of the updated world standards rendering double efforts and endeavors for continuous promotion , optimization and enhancement of the engineering quality .

ENGINEERING DESIGN Department

TAVANEKAR IDEH Co. by enjoying its own scientific and technical experiences , extended its activities to Industrial Automation projects including process control applications based on PC, PLC,DSC, RTU, instrumentation, explosion proof switch boards, telemetry, SCADA and other engineering services , by taking advantage of the recognized standards of SIEMENS , ALLEN-BRADLEY , OMRON ,ABB , YOKOGAWA and software such as STEP 7 ,WINCC, WINCC FLEXIBLE , OPC, RS LOGIX , PICOSOFT, and ... which can be described as follows :

PROCESS and AUTOMATION Department

TKG Co.'s engineers have professional experience in design of following Processes :

Industrial AUTOMATION services including:

Study of the production process to provide a plan for development and reconstruction

Repair and maintenance, change and reconstruction of the system for electrical and control system optimization

Design, construction and commissioning of control panels including DCS/PLC

Software design, implementation DCS/PLC and monitoring software by IEC/BS standards

Equipment provided by Siemens ,Allen Bradley, Omron

Design and manufacturing of data collection boards (Data Acquisition) digital, analog, RS-233; RS-485; RS422

Renovation of old electronic devices such as alarms annunciator, controllers



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DCS/PLC/ESD REFERENCE LIST			
ROW	PROJECT NAME	CONTROL DEVICES /PLC	HMI
1	ZAR-KARAJ FLOUR COMPANY CONTROL CUBICLE AND PLC SYSTEM	SIEMENS PHOENIX	GRAPHICNT
2	MILL 3 KARUN AGROINDUSTRY CONTROL CUBICLE AND PLC SYSTEM	SIEMENS S7-312-2DP	CITECT
3	NOOR ABAD GAS PUMP STATION - POWER MANAGEMENT SYSTEM	SIEMENS 416 -2DP	WINCC
4	KHATOON ABAD COPPER SMELTER COMAPANY, WATER TREATMENT PLANT	SIEMENS S7-414-2DP	WINCC
5	CRUDE OIL PUMP STATION LAVAN ISLAND	SIEMENS S7-414H FULL REDUNDANT	WINCC
6	PACKING MACHINE KARUN AGROINDUSTRY. RENWAL CONTROL SYSTEM	SIEMENS S7-314C	OP27 SIEMENS PROTOOLS
7	RAZI PETROCHEMICAL COMPANY WATER TREATMENT PLANT	SIEMENS S7-414-2DP	PCS7
8	TRANING COURSE OF KARUN AGROINDUSTRY PLC,HMI. INSTRUMENTS	SIEMENS	-
9	RAZI PETROCHEMICAL COMPANY PLC PANEL FOR WATER TREATMENT PLANT	SIEMENS	PCS7

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10	MARYANAJ KAR - HAMEDAN FLOUR COMPANY CONTROL CUBICLE AND PLC SYSTEM	SIEMENS S7-414-2DP BECKHOFF	WINCC
11	ASIA BARUIM AND STRANSION SALT PLC PANEL AND PROGRAMMING	SIEMENS S7-414-2DP BECKHOFF	PCS7
12	ARAK PETROCHEMICAL COMPANY RECYCLE GAS COMPRESSOR	SIEMENS S7-414H FULL REDUNDANT	MP 377 TOUCH SIEMENS WINCC FLEXIBLE
13	ARVAND PETROCHMICAL COMPANY COMPRESSOR	SIEMENS S7-417H FULL REDUNDANT	MP 370 TOUCH SIEMENS PROTOOLS
14	SIRRI ISLAND LLP COMPRESSOR STATION	SIEMENS S7-414H FULL REDUNDANT	MP 370 TOUCH SIEMENS WINCC FLEXIBLE
15	ROZTAB PRINTING COMPANY, NEWSPAPERS CONVEYOR CONTROL SYSTEM	SIEMENS S7-315-2DP	OP27 SIEMENS PROTOOLS
16	MAPNA BOILER COMPANY, FINTUPE WORKSHOP	LG	PROFACE
17	MAPNA BOILER COMPANY, FINTUPE WORKSHOP	MITSUBISHI	PROFACE
18	ARD REZA - GHOCHAN FLOUR COMPANY CONTROL CUBICLE AND PLC SYSTEM	SIEMENS S7-416-2DP BECKHOFF	WINCC
19	ROZTAB PRINTING COMPANY, REFABRICATION OF ELECTRONIC BOARD	—	—



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20	<i>KHATOON ABAD COPPER SMELTER COMAPANY, WATER TREATMENT PLANT REPROGRAMMING AND NET</i>	<i>SIEMENS S7-414- 2DP</i>	<i>WINCC</i>
21	<i>BAHREGAN AVIATION FUEL FACILITY</i>	<i>SIEMENS S7-412HF FULL REDUNDANT</i>	<i>WINCC</i>
22	<i>BAHREGAN AVIATION FUEL FACILITY F&G SYSTEM(NIOC)</i>	<i>SIEMENS S7-412HF FULL REDUNDANT</i>	-
23	<i>PASARGAD OIL COMPANY ABADAN REFINERY TANK STORAGE SYSTEM</i>	<i>SIEMENS S7-414</i>	<i>WINCC</i>
24	<i>HORMOZGAN STEEL COMAPANY(HOSCO) WATER TREATMENT SYSTEM</i>	<i>SIMENS S7-317DP/PN</i>	<i>WINCC</i>
25	<i>LOSHAN POWER PLANT HEAVY OIL STORAGE FACILITY</i>	<i>SIMENS S7-317DP/PN</i>	<i>WINCC</i>
26	<i>BIRJAND Oil STORAGE DEPOT (NIODC)</i>	<i>SIEMENS S7-412HF REDUNDNT</i>	<i>WINCC</i>
27	<i>MALAYER Oil storage depot (NIODC)</i>	<i>SIEMENS S7-412HF REDUNDNT</i>	<i>WINCC</i>
28	<i>ESFAHAN STEEL COMPANY CONTROL SYSTEM OF TRANSFER CONVEYER LIME(ESCO)</i>	<i>SIMENS S7-317DP/PN</i>	<i>WINCC</i>
29	<i>ARAKK SHAZAND OIL STORAGE FACILITY (NIODC)</i>	<i>SIEMENS S7-412HF REDUNDNT</i>	<i>WINCC</i>



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30	IRAN MARINE SERVICES BONKERING FACILITY	SIEMENS S7-315-PN/DP	PCS7
31	ARD KANGAN CONTRO SYSTEM	SIEMENS S7-416 2DP	WINCC
32	IRAN MALL BMU ELECTRICAL AND CONTRL SYSTEM(DIBA COMPANY)	SIEMENS S7-315-PN/DP	-
33	ARD KHUZESTAN CONTROL SYSTEM	SIEMENS S7-416 2DP	WINCC
34	ARD KHABAZ CONTROL SYSTEM	SIEMENS S7-416 2DP	WINCC
35	ARD BEHYAB CONTROL SYSTEM	SIEMENS S7-414 2DP	WINCC
36	SAIPA KASHSN CAR MANUFACTURE CO. PAINT WORKSHOP (SAIPA)	SIEMENS 10* S7-414 2DP	WINCC FLEXIBLE
37	SEALAND COMAPANY DRILLING MACHINERY CONTROL SYSTEM	S7-1200	WINCC
38	BANDARABAS OIL DEPOT CONTROL SYSTEM(BANAGOSTAR KARANEH)	SIEMENS S7-414H FULL REDUNDANT	PCS7
39	ARD KANGAN CONTRO SYSTEM	SIEMENS S7-416 2DP	WINCC

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40	ASIA BARUIM AND STRANSIOM SALT COMPANY CONTROL SYSTEM OF CENTRIFUGES	SIEMENS 2DP	S7-414	PCS7
41	SHAHID RAJAEI PORT SHIPLOADER ELECTRICAL AND CONTROL SYSTEM	SIEMENS 2DP	S7-315	WINCC FLEXIBLE
42	KHORAMSHAHR PORT SHIPLOADER ELECTRICAL AND CONTROL SYSTEM	SIEMENS 2DP	S7-315	WINCC FLEXIBLE

INSTRUMENTS REFERENCE LIST

R	Client	DESCRIPTION	MFR
43	Safa Foulad Company	Float Level Indicator	TKG
44	West Oil & Gas	I/P Convertor	GE
45	West Oil & Gas	I/P Convertor	GE
46	West Oil & Gas	Druck DBC	EMERSON
47	West Oil & Gas	I/P Convertor	Control Air
48	Karoun Kesht o Sana't		SIEMENS

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49	Karoun Kesht o Sana't		SIEMENS
50	Nigc Boushehr	Isolator Barrier	MTL
51	Oil Refinery Lavan	VIBRATION MEASURING SYSTEM 3500	BENTLY NEVADA
52	Fajr Petrochemical	Pressure Transmitter	SIEMENS
53	Fajr Petrochemical	Isolator Barrier	MTL
54	Fajr Petrochemical		FINDER
55	Fajr Petrochemical		SIEMENS
56	Razi Petrochemical		YOKOGAWA
57	Tabriz Petrochemical	PH PROBE	HONEYWELL & ATEN
58	Gas Souzan Co.	Power Supply	GEORGIN



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59	<i>Khangiran</i>	<i>Chasis 7 Slot Rack</i>	<i>ALLEN BRADLEY</i>
60	<i>Fara Sana't Fartak Co.</i>	<i>ISOLATOR</i>	<i>PEPPERL +FUCHS</i>
61	<i>Fajr Petrochemical</i>	<i>ISOLATOR</i>	<i>PEPPERL +FUCHS</i>
62	<i>Kavoush Sana't Toos Co.</i>	<i>Programmable Logic Controler</i>	<i>ALLEN BRADLEY</i>
63	<i>Khangiran</i>	<i>VIBRATION MEASURING SYSTEM 3300</i>	<i>BENTLY NEVADA</i>
64	<i>Fajr Petrochemical</i>	<i>Pressure Transmitter</i>	<i>SIEMENS</i>
65	<i>Bitra Control Jey Co.</i>	<i>ISOLATOR</i>	<i>MTL</i>
66	<i>Gas Souzan Co.</i>	<i>ISOLATOR</i>	<i>MTL</i>
67	<i>Khangiran</i>	<i>VIBRATION MEASURING SYSTEM 3300</i>	<i>BENTLY NEVADA</i>
68	<i>Fajr Petrochemical</i>	<i>Differential Pressure Transmitter</i>	<i>ENDRESS+HAUSER</i>



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69	<i>Fara Sana'at Fartak Co.</i>	<i>ISOLATOR</i>	<i>MTL</i>
70	<i>Delta Sana't Co.</i>	<i>ISOLATOR</i>	<i>MTL</i>
71	<i>Khangiran</i>	<i>PROXIMITY TRANSDUCER 3300XL</i>	<i>BENTLY NEVADA</i>
72	<i>Fajr Petrochemical</i>		<i>SIEMENS</i>
73	<i>Gas Souzan Co.</i>	<i>ISOLATOR</i>	<i>PEPPERL +FUCHS</i>
74			
75	<i>Fajr Petrochemical</i>		<i>SIEMENS & PHONIX CONTACT</i>
76	<i>Fajr Petrochemical</i>		<i>FINDER</i>
77	<i>Fajr Petrochemical</i>	<i>Pressure Transmitter</i>	<i>SIEMENS</i>
78	<i>Oil Refinery Shazand</i>	<i>Pressure Transmitter</i>	<i>SIEMENS</i>

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79	Fajr Petrochemical	Flow Transmitter	ENDRESS+HAUSER
80	Oil Refinery Bandar Abbas	Calibrator	FLUKE
81	Oil Refinery Tehran	PROXIMITY TRANSDUCER 3300XL	BENTLY NEVADA
82	Fajr Petrochemical	MAGNETIC FLOW METER	ENDRESS+HAUSER
83	Oil Refinery Shazand	Isolator Barrier	PEPPERL+FUCHS
84	Fajr Petrochemical		PHONIEX CONTACT
85	Fajr Petrochemical		SIEMENS
86	Fajr Petrochemical		SIEMENS
87	Gas Souzan Co.	ISOLATOR	GEORGIN
88	Arya Energy Co.	ISOLATOR	PEPPERL+FUCHS



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89	Fajr Petrochemical		PHONIEX CONTACT/TEKPN
90	Rajman Pardaz Co.	VIBRATION MEASURING SYSTEM 3500	BENTLY NEVADA
91	Control Gas Ekbatan Co.	VIBRATION MEASURING SYSTEM 3500	SIEMENS
92	Royan Mehr Sana't Co.		BENTLY NEVADA
93	Oil Refinery Shazand		ABB(Hartman& Braun)
94	Kian Mehr Fidar Co.	VIBRATION MEASURING SYSTEM 3300	BENTLY NEVADA
95	AOGC	VIBRATION MEASURING SYSTEM 3500	BENTLY NEVADA
96	Rajman Pardaz Co.	VIBRATION MEASURING SYSTEM 3500	BENTLY NEVADA
97	Pars Fitting Co	ISOLATOR	MTL
98	Gas Souzan Co.	ISOLATOR	PEPPERL+FUCHS



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99	<i>Enegy Kavir Paya Co.</i>	<i>ISOLATOR</i>	<i>MTL</i>
100	<i>Fajr Petrochemical</i>		<i>SIEMENS</i>
101	<i>Oil Refinery Shazand</i>	<i>Gas Regulator</i>	<i>FISHER CONTROL</i>
102	<i>Kian Mehr Fidar Co.</i>	<i>VIBRATION MEASURING SYSTEM 3300</i>	<i>BENTLY NEVADA</i>
103	<i>Oil Refinery Tabriz</i>	<i>VIBRATION MEASURING SYSTEM 3300</i>	<i>BENTLY NEVADA</i>
104	<i>Pishgaman Fan Andish Tehran</i>	<i>Pressure Transmitter Vibronic</i>	<i>ENDRESS+HAUSER</i>
105	<i>Hamgam Hooram Co.</i>	<i>VIBRATION MEASURING SYSTEM 3300</i>	<i>BENTLY NEVADA</i>
106	<i>Razi Petrochemical</i>	<i>Level Indicator</i>	<i>VEGA</i>
107	<i>Oil Refiney Tabriz</i>	<i>ISOLATOR</i>	<i>MTL</i>
108	<i>Gas Souzan Co.</i>	<i>ISOLATOR</i>	<i>PEPPERL+FUCHS</i>



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109	Nigc Illam	Digital Level Indicator	Muller Industries
110	West Oil & Gas	Gas Regulator	Fisher
111	Oil Refinery Bandar Abbas	Go proximity Switch	Topworx
112	Sanaie Shimiaie Iran Co.	pressure Transmitter	ROSEMOUNT
113	Khangiran	Controller Card	Gent by Honeywell
114	Khangiran	Chasis 7 Slot Rack	Allen Bradley
115	Oil Refinery Shazand	Isolator barrier	MTL
116	Khangiran	Vibration Monitor System	Bentley Nevada
117	Oil Refinery Bandar Abbas	Solenoid Valve	ATOS
118	West Oil & Gas	Pressure Measurement	Endress+ Hauser



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119	<i>Khangeran</i>	<i>Level Transmitter</i>	<i>VEGA</i>
120	<i>Khangeran</i>	<i>Programmable Logic Controler</i>	<i>Allen Bradley</i>
121	<i>Oil Refinery Bandar Abbas</i>	<i>DCS-3000 CARD</i>	<i>Honeywell</i>
122	<i>Khangeran</i>	<i>Proximity Probe</i>	<i>Bentley Nevada</i>
123	<i>Khangeran</i>	<i>Cpu Moudle</i>	<i>Allen Bradley</i>
124	<i>Rajman Pardaz Co.</i>	<i>Vibration Probe</i>	<i>Bentley Nevada</i>
125	<i>Mapna Electronic Co.</i>		<i>Allen Bradley</i>