

INGETEAM T&D (TEAM ARTECHE) REFERENCE LIST IN IRAN

Customer	Facility type	Equipment							Voltage Level	Consultant	End User	
		Integrated Control	Protective relays					OC/EF				AVR
			Line Differential	Distance	Feeder Management	Differential	OC/EF or OV/UV or 81					
Semnan REC.	Transmission Substation			X				X		230 kV	Semnan REC.	Semnan REC.
Bargh Avaran Co.	Distribution S/S							X		20 & 6.3 kV	N.A.	Parsilon Factory
Zhalke Co.	Oil & Gas Refinery				X	X		X		63 & 6.3 kV	N.A.	Oil & Gas Refinery
Fars REC.	Quran SS							X		66 kV	N.A.	Fars REC.
Fars REC.	Amir Kabir SS							X		66 kV	N.A.	Fars REC.
Fars REC.	Modares SS							X		66 kV	N.A.	Fars REC.
Fars REC.	Oze SS							X		66 kV	N.A.	Fars REC.
Fars REC.	Fasarood SS							X		66 kV	N.A.	Fars REC.
Fars REC.	Sheshdeh SS							X		66 kV	N.A.	Fars REC.
Fars REC.	Markazi SS							X		66 kV	Fars Rec.	Fars REC.
Fars REC.	Noor Abad SS							X		66 kV	N.A.	Fars REC.
Fars REC.	Seydan SS							X		66 kV	N.A.	Fars REC.
Fars REC.	Kenar Takhteh SS							X		66 kV	N.A.	Fars REC.

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			Line Differential	Distance	Feeder Management	Differential	OC/EF or OV/UV or 81	OC/EF					
Fars REC.	Felestin SS							X		66 kV	N.A.	Fars REC.	
Tabdil Energy Paya Co.	Saeedabad S/S			X	X	X	X	X	X	132/20 kV	MONA Co.	Azarbayjan REC.	
Tabdil Energy Paya Co.	Nemayeshgah S/S			X	X	X	X	X	X	132/20 kV	MONA Co.	Azarbayjan REC.	
Bargh Avaran Co.	Industry							X		132/20 kV	N.A.	Parsilon in Kerman	
Semnan REC.	Transmission Substation			X						230 kV	Semnan REC.	Semnan REC.	
Pars Niroo Co.	Transmission S/S					X				230 kV	N.A.	Fars REC.	
Tamirat Niroo Fars Co.	Transmission S/S						X			230 kV	Fars Rec.	Fars REC.	
Tamirat Niroo Fars Co.	Soormagh SS			X						230 kV	Fars Rec.	Fars REC.	
Tamirat Niroo Fars Co.	Shiraz SS			X						230 kV	Fars Rec.	Fars REC.	
Tamirat Niroo Fars Co.	Ghaemyeh SS			X						230 kV	Fars Rec.	Fars REC.	
Tamirat Niroo Fars Co.	Saadat Shahr SS			X							Fars Rec.	Fars REC.	
Tamirat Niroo Fars Co.	Marvdasht SS			X						230 kV	Fars Rec.	Fars REC.	
Tamirat Niroo Fars Co.	Kenareh SS					X				66 kV	Fars Rec.	Fars REC.	
3/12/2016 Tamirat Niroo Fars Co.	Lamerd SS			X						132 kV	Fars Rec.	Sheet 2 of 10 Fars REC.	

Customer	Facility type	Equipment							Voltage Level	Consultant	End User	
		Integrated Control	Protective relays					OC/EF				AVR
			Line Defferential	Distance	Feeser Management	Differencial	OC/EF or OV/UV or 81					
Tamirat Niroo Fars Co.	Fasa2 SS			X					66 kV	Fars Rec.	Fars REC.	
Tamirat Niroo Fars Co.	Darab SS			X					66 kV	Fars Rec.	Fars REC.	
Tamirat Niroo Fars Co.	Shahrooz Shahr SS					X			66 kV	Fars Rec.	Fars REC.	
Tamirat Niroo Fars Co.	Deylam SS			X					66 kV	Fars Rec.	Fars REC.	
Tamirat Niroo Fars Co.	Ab Pakhsh SS			X					66 kV	Fars Rec.	Fars REC.	
Tamirat Niroo Fars Co.	Kharmoj SS					X			66 kV	Fars Rec.	Fars REC.	
Tamirat Niroo Fars Co.	Bahmani SS					X			66 kV	Fars Rec.	Fars REC.	
Tamirat Niroo Fars Co.	Fanoos SS			X					66 kV	Fars Rec.	Fars REC.	
Fara Niroo Co.	Transmission and Distribution S/S			X	X				132/20 kV	N.A.	Azarbayjan REC.	
Moham Shargh Co.	Sahand Substation			X	X	X	X	X	230/63/20 kV	MONA Co.	Azarbayjan REC.	
Pars Niroo Co.	Transmission S/S					X			230 kV	N.A.	Fars REC.	
Tamirat Niroo Fars Co.	N.A.			X					230 kV	Fars Rec.	Fars REC.	
Tamirat Niroo Fars Co.	N.A.			X	X	X	X	X	132 & 230 kV	Yazd Rec.	Yazd REC.	
Semnan REC.	Transmission Substation						X		230 kV	Semnan REC.	Semnan REC.	

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		Integrated Control	Protective relays						OC/EF				AVR
			Line Defferential	Distance	Feeser Management	Differencial	OC/EF or OV/UV or 81						
Tabdil Energy Paya Co.	Srdasht S/S			X	X	X	X	X	X	132/20 kV	MONA Co.	Azarbayjan REC.	
Tabdil Energy Paya Co.	Anhar S/S			X	X	X	X		X	132/20 kV	MONA Co.	Azarbayjan REC.	
Bordar Niroo Pars	N.A.						X			132/20 kV	Kerman Rec.	Kerman REC.	
Pars Niroo Co.	Transmission S/S					X				230 kV	N.A.	Fars REC.	
Tabdil Energy Paya Co.	Ardakan S/S			X	X	X	X		X	63/20 kV	Moshanir Co.	Yazd REC.	
Behso Niroo Co.	Arak-8 S/S (DCS)	X				X	X		X	63/20 kV	N.A.	Bakhtar REC.	
Fars REC.	70 Units for HV S/S				X					400/230 kV	N.A.	Fars REC.	
Tabdil Energy Paya Co.	Aslandooz S/S			X	X	X	X			63/20 kV	Anaco Co.	Azarbayjan REC.	
Tabdil Energy Paya Co.	Ahar S/S			X	X					230/63/20 kV	Anaco Co.	Azarbayjan REC.	
Tabdil Energy Paya Co.	Ahar Siloo S/S				X	X	X			63/20 kV	Anaco Co.	Azarbayjan REC.	
Tabdil Energy Paya Co.	Tagi Dizaj S/S				X	X	X			63/20 kV	Anaco Co.	Azarbayjan REC.	
Besat Power Plant	Power Station						X			11 KV	N.A.	Tehran	
Azarbayjan REC.	125 Units for HV S/S						X			230/132/20 kV	Azarbayjan REC.	Azarbayjan REC.	
3/12/2016 Yazd REC.	N.A.			X		X	X			N.A.	Yazd Rec.	Yazd REC.	

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		Integrated Control	Protective relays					OC/EF				AVR
			Line Differential	Distance	Feeser Management	Differencial	OC/EF or OV/UV or 81					
Hormozgan REC.	N.A.						X		N.A.	Hormozgan Rec.	Hormozgan REC.	
Sorin Co.	N.A.						X		66/20 kV	Fars Rec.	Fars REC.	
Rasel Tablo Co.	N.A.						X		63/20 kV	N.A.	N.A.	
Yazd REC.	45 Units for HV S/S						X		230/132/20 kV	Yazd Rec.	Yazd REC.	
Rasel Tablo Co.	Sico S/S				X	X	X		63/20 kV	N.A.	Saypa Co.	
Kerman REC.	48 Units for HV S/S			X	X	X	X		230/132/20 kV	Kerman REC.	Kerman REC.	
Sarv Niroom Toss Co.	Golestan & Roshanai S/S				X		X		63/20 KV	MONA Co.	Azarbayjan REC.	
Yazd REC.	7 Units for HV S/S			X			X		230/132/20 kV	Yazd Rec.	Yazd REC.	
Zhoubin Niroom Co.	ALAM ARA S/S			X	X	X	X		132/20 KV	MONA Co.	Azarbayjan REC.	
Tavanir	500 Units for HV S/S						X		All Levels	Mobasher Co.	All REC.	
Khozestan REC. (by Orkid Kala Co.)	Transmisiton S/S			X	X	X	X		400 & 230KV	Khozestan REC.	Khozestan REC.	
Samanir Co.	Distribution S/S						X		N.A.	Kerman REC.	Kerman REC.	
Fan Avaran Niroom Co.	Distribution S/S				X				33KV	Khozestan REC.	Khozestan REC.	
Tavan Gostare Daghigh Co. 3/12/2016	FIN S/S			X	X	X	X		63/20 KV	MOSHANIR	Hormozgan REC.	

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		Integrated Control	Protective relays					OC/EF				AVR
			Line Defferential	Distance	Feeser Management	Differencial	OC/EF or OV/UV or 81					
Resanir Co.	Distribution S/S			X	X				N.A.	Kerman REC.	Kerman REC.	
Azma Energy Co.	75 Units for Distribution S/S						X		66/20 kV	Fars Rec.	Fars REC.	
Parsian Co.	AzarAbadegan Cement			X	X				N.A.	N.A.	AzarAbadegan Cement	
Darian Co.	30 Units for Distribution S/S						X		33KV	Khozestan REC.	Khozestan REC.	
Azarbayjan REC.	HV S/S			X	X	X	X		230/132 kV	Azarbayjan REC.	Azarbayjan REC.	
Dez Power Plant	Power Station						X		N.A.	N.A.	Khozestan REC.	
Fan Avaran Niroo Co.	Distribution S/S			X	X	X			63KV	Zanjan REC.	Zanjan REC.	
Khozestan REC.	Transmisiton S/S			X			X		230KV	Khozestan REC.	Khozestan REC.	
Sistan & Balochestan REC.	Transmisiton S/S						X		N.A.	Sistan & Balochestan REC.	Sistan & Balochestan REC.	
Mazand Niroo Co.	Dashli Bron S/S			X	X	X	X		63/20 KV		Mazandaran REC.	
Fan Avaran Niroo Co.	Distribution S/S				X	X			132 KV	Khozestan REC.	Khozestan REC.	
Fan Avaran Niroo Co.	Distribution S/S						X		33 KV	Khozestan REC.	Khozestan REC.	
Azarbayjan REC.	HV S/S				X				230 & 132 kV	Azarbayjan REC.	Azarbayjan REC.	
3/12/2016 Hamyan Fan Co.	Mahshahr Port S/S			X	X	X	X		132/33 KV	Ghods Niroo Co.	Khozestan REC.	

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Parsian Power Co.	South Pars S/S(SAS With new IEC-61850 Protocol)			X	X	X	X			132/33/6 KV	INGC	Iranian National Gas Co.
Tabdil Energy Paya Co.	Masjed Solayman S/S			X	X	X	X			132/11KV	PEDEC	Petroleum Engineering Development Co.
Navid Niroo Co.	MIS Oil Field Development S/S(SAS)	X			X	X	X			33/11 KV	PEDEC	Petroleum Engineering Development Co.
Moham Shargh Co.	Badreh S/S			X	X	X	X			63/20 KV	Aria Niroo Jam Co.	West REC.
Moham Shargh Co.	Negel S/S			X	X	X	X			63/20 KV	Aria Niroo Jam Co.	West REC.
Fan Avaran Niroo Co.	50 Feeders						X			33 KV	Khozestan REC.	Khozestan REC.
Fan Avaran Niroo Co.	30 Trans. Bay					X	X			132/33 KV	Khozestan REC.	Khozestan REC.
Azarbayjan REC.	HV S/S				X		X			132&63 kV	Azarbayjan REC.	Azarbayjan REC.
Fan Avaran Niroo Co.	6 Units CBF						X			63 KV	Saba Steel Co.	Esfehan Saba Steel Co.
Fan Avaran Niroo Co.	Distribution S/S						X				N.A.	Semnan REC.
Fan Avaran Niroo Co.	Distribution S/S						X				N.A.	Zanjan REC.
Darian Co. 3/12/2016	Ray Gazi Power Plant SS						X				Tadbir Niroo Co.	Tehran REC. Sheet 7 of 10

Customer	Facility type	Equipment							Voltage Level	Consultant	End User	
		Integrated Control	Protective relays					OC/EF				AVR
			Line Defferential	Distance	Feeser Management	Differencial	OC/EF or OV/UV or 81					
Resanir Co.	Distribution S/S						X			Kerman REC.	Kerman REC.	
Fars REC.	25 Units for Transmisiton S/S					X			230&66 kV	Fars Rec.	Fars REC.	
TPP Co.	Dalaho S/S			X	X	X	X		63/20 kV	MOSHANIR	West REC.	
TPP Co.	Faraman-2 S/S			X	X	X	X		63/20 kV	Ghods Niroo Co.	West REC.	
TPP Co.	15 Modular S/S			X	X	X	X		63/20 kV	Tous Staud Co.	Bakhtar REC.	
Resanir Co.	Kerman-3 S/S			X	X	X	X		132/20 KV	Moshanir Co.	Kerman REC.	
Parsian Co.	5* Bakhtar S/Ss			X	X	X	X		63/20 kV	Moshaver Niroo Co.	Bakhtar REC.	
YAM Co.	BANDAR MOGHAM S/S			X	X	X	X		132/20 kV	Ghods Niroo Co.	Hormozgan REC.	
YAM Co.	CHARAK S/S			X	X	X	X		132/20 kV	Ghods Niroo Co.	Hormozgan REC.	
YAM Co.	6*Zanjan S/Ss			X	X	X	X		63/20 kV	Moshanir Co.	Zanjan REC.	
Danir Co.	Mansoor S/S			X	X	X	X		63/6.3 kV	Loushan Bargh ASA Co.	Gilan REC.	
Bostano Co.	Hashtbandi S/S			X	X	X	X		63/20 kV	Moniran Co.	Hormozgan REC.	
Bostano Co.	Jalabi S/S			X	X	X	X		63/20 kV	Aria Niroo Jam Co.	Hormozgan REC.	
3/12/2016 Fan Avaran Niroo Co.	FOLAD E SABA S/S						X		400/33 kV	N.A.	Sheet 8 of 10 Esfahan REC	

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		Integrated Control	Protective relays					OC/EF				AVR
			Line Defferential	Distance	Feeser Management	Differencial	OC/EF or OV/UV or 81					
Fan Avaran Niroo Co.	SHAHRAK E FOOLAD S/S				X		X		63/33 kV	DANESHMAND Co.	Esfahan REC	
Fars REC.	240 Units for Transmisiton S/S				X				132&63 kV	Fars Rec.	Fars REC.	
Pakdasht Power Plant	400 KV Substation						X		400 kV	Tehran Rec.	Tehran REC.	
Zangan Pars Co.	63/20 KV Substation						X		63/20KV	N.A.	N.A.	
Mehr Abad Co.	63/20 KV Substation						X		63/20KV	N.A.	N.A.	
Fara Niroo Co.	63/20 KV Substation				X	X			63/20KV	Khuzestan REC.	Khuzestan REC.	
Pars Tabloo Co.	63/20 KV Substation						X		63/20KV	N.A.	Natanz Steel mill	
Petrochemical Technology&Reserch	20/0.4 KV Substation						X		20/0.4KV	N.A.	Fajr Petrochemical	
Fan Avaran Niroo Co.	132/33KV Substation				X	X	X		132/33KV	Khuzestan REC.	Khuzestan REC.	
No Avaran Bargh Ariya	63/20 KV Substation				X		X		20KV	N.A.	Zanjan REC.	
TANESH	63/20KV Substation				X	X	X		63/20KV	Nour Gostar	Tehran REC	
No Avaran Bargh Ariya	63/20 KV Substation				X		X		20KV	MONA Co.	Azarbayjan REC.	
Fan Avaran Niroo Co.	132/33 KV Substations				X	X			132/33KV	N.A.	Khuzestan REC.	
^{3/12/2016} Zanjan REC	Different Substations						X		N.A.	N.A.	Zanjan REC.	

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		Integrated Control	Protective relays						OC/EF				AVR
			Line Defferential	Distance	Feeser Management	Differencial	OC/EF or OV/UV or 81						
Tanesh Co.	A Substation				X	X	X			N.A.	N.A.	Mazandaran REC.	
Khozestan REC.	Different Substations						X			N.A.	N.A.	Khozestan REC.	
Parsian Niroogah Co.	DCS,GIS Phase 1&2 Back up Substation	X		X	X	X	X	X	X	132/11/6KV	N.A.	POGC	
TPP Co.	Two Gilan Mobile Substations				X	X	X	X	X	63/20KV	Darya Pala Co.	Gilan REC.	
Arman Niroo Hormozgan	Qeshm (Sistan)		X		X	X	X	X		63/20KV	Ghods Niroo Co.	Hormozgan REC.	

NIOTE: The bold ones are substations that already energized.