

VENDOR LIST

REV. 9

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1.1- ROTARY EQUIPMENT

1.1.1- PUMP

1.1.1.1- CENTRIFUGAL WATER PUMP

COMPANY NAME	ORIGIN
ARVIN TAJHIZ SEPAHAN	IRAN
ENERGY VA KAR ESFAHAN	IRAN
IRAN INDUSTRIAL PUMPS	IRAN
KALAYE PUMP	IRAN
KAVOSH SANAT TOOS	IRAN
NAVID SAHAND	IRAN
PUMP IRAN	IRAN
PUMP RIZAN	IRAN
PUMPHAYE BOZORG & TURBINE ABI (PETCO)	IRAN
ABS GROUP	SWEDEN
APOLLO	GERMANY
DACO	S.KOREA
DICKOW PUMPEN	GERMANY
DMW CORP.	JAPAN
EBARA	JAPAN
ENSIVAL / MORET GROUP	FRANCE / BELGIUM
FLOWSERVE CORPORATION	USA / W.EUROPE / CANADA
GARBARINO	ITALY
GRUPPO ATURIA	ITALY
HANDOL PUMP	SOUTH KOREA
ICHIKAWA	JAPAN
IST	GERMANY
K.S.B.	GERMANY
MUNSCH CHEMIE PUMPEN GMBH	GERMANY
RUHR PUMPEN	GERMANY
SAFCO	AUSTRIA
STERLING PUMPS	AUSTRALIA
STORK	NETHERLANDS
SULZER	USA / W.EUROPE / CANADA
TORISHIMA PUMP	JAPAN
VOGEL	AUSTRIA
WEIR GROUP PLC (GABBIONETA)	UK / ITALY

1.1.1.2- CENTRIFUGAL API TYPE PUMP

ARVIN TAJHIZ SEPAHAN	IRAN
ENERGY VA KAR ESFAHAN	IRAN
IRAN INDUSTRIAL PUMPS	IRAN
KAVOSH SANAT TOOS	IRAN
NAVID SAHAND	IRAN
PUMP IRAN	IRAN
PUMPHAYE BOZORG & TURBINE ABI (PETCO)	IRAN
APOLLO	GERMANY
DACO	S.KOREA
DICKOW	GERMANY
DMW CORP.	JAPAN
EBARA	JAPAN
ENSIVAL MORET GROUP	FRANCE / BELGIUM
ENVIROTECH	NETHERLANDS
FINDER POMPE S.P.A.	ITALY
FLOWSERVE CORPORATION (WORTHINGTON, NGERSOL / DRESSER PUMP)	USA / W.EUROPE / CANADA
GRUPPO ATURIA	ITALY
HANDOL PUMP	SOUTH KOREA
HYOSUNG GOODSPRING *	SOUTH KOREA
MUNSCH CHEMIE PUMPEN GMBH	GERMANY
K.S.B.	GERMANY
mitsubishi heavy ind.ltd (mhi)	JAPAN
NIHUIS	NETHERLANDS

COMPANY NAME	ORIGIN
OPTIMEX	FRANCE
ROODHART GROUP	NETHERLANDS
RUHR PUMPEN	GERMANY
SAFCO	AUSTRIA
SHIN NIPPON MACHINERY CO.LTD	JAPAN
STERLING PUMPS	AUSTRALIA
STORK	NETHERLANDS
SULZER	USA / W.EUROPE / CANADA
SUNDSTRAND INTERNATIONAL S.A.	FRANCE
TORISHIMA PUMP	JAPAN
VOGEL	AUSTRIA
WEIR GROUP PLC (GABBIONETA)	UK / ITALY

1.1.1.3- SLURRY PUMP

EGGER	SWITZERLAND
WEIR GROUP PLC	W.EUROPE

1.1.1.4- VERTICAL PUMP

1.1.1.4.1- VERTICAL WATER PUMP

ARVIN TAHIZ SEPAHAN	IRAN
ENERGY VA KAR ESFAHAN	IRAN
IRAN INDUSTRIAL PUMPS	IRAN
KAVOSH SANAT TOOS	IRAN
MOMTAZ PUMP	IRAN
PUMPHAYE BOZORG & TURBINE ABI (PETCO)	IRAN
PUMP IRAN	IRAN
PUMP PARS	IRAN
ALSTOM	FRANCE
APOLLO	GERMANY
DACO	S.KOREA
DICKOW	GERMANY
DMW CORP.	JAPAN
EBARA	JAPAN
ENSIVAL MORET GROUP	FRANCE / BELGIUM
FLOWSERVE CORPORATION	USA / W.EUROPE / CANADA
GRUPPO ATURIA	ITALY
HANDOL PUMP	SOUTH KOREA
HITACHI	JAPAN
K.S.B	GERMANY
MUNSCH CHEMIE PUMPEN GMBH	GERMANY
NIJHUIS	NETHERLANDS
NIKKISO (SUNDYNE)	JAPAN
RUHR PUMPEN	GERMANY
SAFCO	AUSTRIA
SHIN NIPPON MACHINERY CO.LTD	JAPAN
SPP	UK
STERLING PUMPS	AUSTRALIA
STORK	NETHERLANDS
SULZER	USA / W.EUROPE / CANADA
TORISHIMA PUMP	JAPAN
VOGEL	AUSTRIA
WEIR GROUP PLC (GABBIONETA)	UK / ITALY

<i>1.1.1.4.2- VERTICAL API TYPE PUMP</i>	COMPANY NAME	ORIGIN
	ARVIN TAJHIZ SEPAHAN	IRAN
	ENERGY VA KAR ESFAHAN	IRAN
	IRAN INDUSTRIAL PUMPS	IRAN
	KAVOSH SANAT TOOS	IRAN
	PUMPHAYE BOZORG & TURBINE ABI (PETCO)	IRAN
	PUMP IRAN	IRAN
	APOLLO	GERMANY
	DACO	S.KOREA
	DICKOW	GERMANY
	DMW CORP.	JAPAN
	EBARA	JAPAN
	FLOWSERVE CORPORATION (WORTHINGTON, INGERSOL / DRESSER PUMP)	USA / W.EUROPE / CANADA
	GRUPPO ATURIA	ITALY
	HANDOL PUMP	SOUTH KOREA
	MUNSCH CHEMIE PUMPEN GMBH	GERMANY
	K.S.B	GERMANY
	MARUSHICHI	JAPAN
	NIKKISO (SUNDYNE)	JAPAN
	RUHR PUMPEN	GERMANY
	SAFCO	AUSTRIA
	SHIN NIPPON MACHINERY CO.LTD	JAPAN
	STERLING PUMPS	AUSTRALIA
	STORK	NETHERLANDS
	SULZER	USA / W.EUROPE / CANADA
	TOLID PUMPHAYE BOZORG & TURBINE ABI (PETCO)	IRAN
	TORISHIMA PUMP	JAPAN
	VOGEL	AUSTRIA
	WEIR GROUP PLC (GABBIONETA)	UK / W.EUROPE
<i>1.1.1.5- DOSING PUMP</i>		
	KONDOR SANAT PARTIAN	IRAN
	MACHIN SAZI NEEV	IRAN
	PUMP VJEH (GESSCO)	IRAN (GERMANY)
	BRAUN & LUEBBE	GERMANY / FRANCE
	D.K.M CLEXTAL	FRANCE
	DOSAPRO MILTON ROY	FRANCE / UK / GERMANY
	IST	GERMANY
	LEWA	GERMANY
	NIKKISO	JAPAN
	O.M.GALLARATESI	ITALY
	PERONIPOMPE	ITALY
	PROMINENT	GERMANY
	SEKO	ITALY
	WEPUKO	GERMANY
<i>1.1.1.6- CENTRIFUGAL HIGH SPEED PUMP (INTEGRAL GEAR)</i>		
	EBARA	JAPAN
	FLOWSERVE CORPORATION	USA / W.EUROPE / CANADA
	K.S.B	GERMANY
	NIKKISO	JAPAN
	ROODHART GROUP	NETHERLANDS
	SAMGONG	SOUTH KOREA
	STORK	NETHERLANDS
	SUNDYNE / INTERPEC	FRANCE / W.EUROPE
	WEIR GROUP PLC (GABBIONETA)	UK / W.EUROPE

	COMPANY NAME	ORIGIN
1.1.1.7- SCREW PUMP		
	ALLWEILLER AG	GERMANY
	ALSTOM (SCAM IMO)	FRANCE
	FLOWSERVE CORPORATION	USA / W.EUROPE / CANADA
	KALAYE PUMP (ALBANY)	IRAN (UK)
	KAWASAKI	JAPAN
	MAAG PUMP SYSTEMS TEXTRON AG	SWITZERLAND
	NETZSCH	GERMANY
	PCM	FRANCE
	PLENTY MIRLESS	UK
	SEPEX	GERMANY
	SHIN NIPPON MACHINERY CO.LTD	JAPAN
	STORK POMPEN	BELGIUM
1.1.1.8- GEAR PUMP		
	FLOWSERVE CORPORATION	USA / W.EUROPE / CANADA
	MAAG	SWITZERLAND
	MICRO PUMP	USA / UK
	OSAKA	JAPAN
1.1.1.9- CRYOGENIC SUBMERGED PUMP		
	IRAN INDUSTRIAL PUMPS*	IRAN
	EBARA INTERNATIONAL CORP.	JAPAN
	FLOWSERVE CORPORATION	USA / W. EUROPE / CANADA
	NIKKISO	JAPAN
	OPTIMEX	FRANCE
	STERLING FLUID SYSTEM	UK
	WEPUKO	GERMANY
1.1.1.10- LIQUID RING VACUUM PUMP		
	DE LAVAL INTERNATIONAL AE	SWEDEN
	ENSIVAL	UK / FRANCE
	FLOWSERVE CORPORATION	USA / W. EUROPE / CANADA
	VACUUM PARS INDUSTRIES	IRAN
1.1.1.11- SEAL LESS PUMP		
	CP PUMPEN AG	SWITZERLAND
	DICKOW	GERMANY
	EBARA FLUID HANDLING	JAPAN
	ELMO	GERMANY
	HIBON	FRANCE
	KSB	GERMANY
	LEDERLE-THERMETIC PUMPEN GMBH	NETHERLANDS
	MUNSCH CHEMIE PUMPEN GMBH	GERMANY
	NIKKISO	JAPAN
	OPTIMEX	FRANCE
	SUNDYNE HMD	UK
1.1.1.12- MONO PUMP		
	MONO PUMP BOHLOOL	IRAN

1.1.2- COMPRESSOR

COMPANY NAME

ORIGIN

1.1.2.1- CENTRIFUGAL / AXIAL COMPRESSOR

OIL TURBO COMPRESSOR (OTC)	IRAN
TAJHIZ ARG PARSIAN(TAPCO)"INTEGRALLY GEARED CENTRIFUGAL"	IRAN
ATLAS-COPCO	GERMANY
BAUER COMPRESSOREN	GERMANY
BOLDROCCHI	ITALY
DRESSER RAND	FRANCE
ELLIOT / EBARA	JAPAN
HITACHI	JAPAN
INGERSOL RAND	GERMANY
KAWASAKI HEAVY INDUSTRY	JAPAN
KOBELCO	JAPAN
MAN DIESEL & TURBO SE	GERMANY
mitsubishi heavy industries	JAPAN
SIEMENS	GERMANY / NETHERLANDS

1.1.2.2- RECIPROCATING COMPRESSOR

TAJHIZ ARG PARSIAN(TAPCO)LMF	IRAN/AUSTRIA
ABC	SPAIN
BURCHARDT	SWITZERLAND
BURTON CORBLIN	FRANCE
GTC	S.KOREA
HITACHI	JAPAN
INGERSOL RAND	GERMANY
JSW (JAPAN STEEL WORK)	JAPAN
KOBELCO	JAPAN
KOHLER & HORTER (KHO)	GERMANY
KWANGSHIN / HAVAYAR	S.KOREA / IRAN
LEOBERSDORFER MASCHINENFABRIK GMBH & CO.KG(LMF)	AUSTRIA
MAN DIESEL & TURBO SE	GERMANY
NEUMAN & ESSER	GERMANY
SIAD MACCHINE IMPIANTI	ITALY
SIEMENS	GERMANY
THOMASSEN	NETHERLANDS

1.1.2.3- SCREW COMPRESSOR

TAJHIZ ARG PARSIAN(TAPCO)LMF	IRAN/AUSTRIA
ADICOMP	ITALY
ALSTOM (GEC-ALSTOM)	FRANCE
ATLAS COPCO	GERMANY / SWITZERLAND
COMP AIR	UK
DRESSER-RAND	FRANCE / W. EUROPE
FIMA	GERMANY
GHH	GERMANY
KOBELCO	JAPAN
LEOBERSDORFER MASCHINENFABRIK GMBH & CO.KG(LMF)	AUSTRIA
MAN DIESEL & TURBO SE	GERMANY
MYCOM	JAPAN

<i>COMPANY NAME</i>	<i>ORIGIN</i>
1.1.2.4- LIQUID RING TYPE COMPRESSOR	
PARS VACUUM	IRAN
HIBON	FRANCE
ELMO	GERMANY
SHIN NIPPON MACHINERY CO.LTD	JAPAN

1.1.2.5- LOBE COMPRESSOR	
HIBON	FRANCE
REIMELT	GERMANY

1.1.3- TURBINE

1.1.3.1- STEAM TURBINE	
NASB NIROOYE IRAN	IRAN
TUGA (MAPNA GROUP)	IRAN
KHADAMAT WIRA TEHRAN(UP TO 2.5 MW)	IRAN
DRESSER RAND	ITALY / FRANCE
ELLIOT / EBARA CORPORATION	UK/JAPAN
FRANCO TOSSI	ITALY
HITACHI	JAPAN
K.K & K	GERMANY
MAN DIESEL & TURBO SE	GERMANY
MITSUBISHI HEAVY INDUSTRIES	JAPAN
SHIN NIPPON MACHINERY CO.LTD	JAPAN
SHINIKO	JAPAN
SIEMENS	GERMANY
TGM KANIS	BRAZIL

1.1.3.2- GAS COMBUSTION TURBINE	
OIL TURBO COMPRESSOR (OTC)	IRAN
TUGA (MAPNA GROUP)	IRAN
ABB-ALSTOM (SULZER TURBO / ESCHER WYSS)	GERMANY / FRANCE
HITACHI	JAPAN
KAWASAKI HEAVY INDUSTRY	JAPAN
MAN DIESEL & TURBO SE	GERMANY / SWITZERLAND
MITSUBISHI HEAVY INDUSTRIES	JAPAN
ROLLS ROYCE ALLISON	UK
SIEMENS-WESTINGHOUSE	GERMANY

1.1.3.3- TURBO EXPANDER	
AIR LIQUIDE	FRANCE
ATLAS COPCO GAS & PROCESS DIVISION	SWEDEN / GERMANY
CRYOSTAR	FRANCE
ELLIOT / EBARA	UK / JAPAN
MAFI-TRENCH	UK
MAN DIESEL & TURBO SE	GERMANY / SWITZERLAND

	COMPANY NAME	ORIGIN
1.1.4- MIXER & AGITATOR		
	ANTICO	ITALY
	EKATO	GERMANY
	LIGHTNIN MIXER	UK
	NIPPON GEAR CO. LTD.	JAPAN
	PLENTY	UK
	R.V.T.	GERMANY
	ROBBIN	FRANCE
1.1.5- MECHANICAL SEAL		
	BURGMANN PARS	IRAN / GERMANY
	ENERGY VA KAR ESEFAHAN	IRAN
	FARAZ ENERGY ASIA	IRAN
	IRAN INDUSTRIAL PUMPS (For water pumps only)*	IRAN
	JARF SANATE KHAVAREMIANEH	IRAN
	KAVAND POOYA SAKHT / JOHN CRANE	IRAN / UK
	NAHADIN ARMAN	IRAN
	PILARY GOSTAR / FLOWSERVE	IRAN / GERMANY
	RAYMON SORIN	IRAN
	TURBO SEAL	IRAN
	CHETRA	GERMANY
	EAGLE	JAPAN
	FLUITEN	ITALY
	NIPPON PILLAR	JAPAN
1.1.6- FAN & BLOWER		
	FANIRAN	IRAN
	HAVA SYSTEM IRAN	IRAN
	MACHIN SAZI MANGAN (ONLY FAN)	IRAN
	SANAYE VACUUM PARS / ROBUSHKI	IRAN / ITALY
	TAJHIZ ARG PARSIAN(TAPCO)	IRAN
	AERZENER	GERMANY
	BOLDROCHI	ITALY
	CBI FAN ENGINEERING	ITALY
	FIMA	GERMANY
	GRUBER *	SPAIN
	HIBON	FRANCE
	HOWDEN	UK / FRANCE
	KOBE STEEL	JAPAN
	MAN DIESEL & TURBO SE	GERMANY
	ROBUSCHI & C S.P.A.	ITALY
	SIEMENS	GERMANY
	STORK	NETHERLANDS
	STRANICH	ITALY
1.1.7- GEAR UNIT		
	BHS CINCINNATI GETRIEBE TECHNIK	GERMANY
	FELENDER	GERMANY
	HANSEN	BELGIUM
	LUFKIN	FRANCE
	MAAG	SWITZERLAND
	NIPPON GEAR	JAPAN
	RENK TACKE GMBH	GERMANY
1.1.8- EXTRUDER		
	COPERION (WERNER)	GERMANY
	JSW	JAPAN
	KOBELCO	JAPAN

	COMPANY NAME	ORIGIN
1.1.9- COUPLING		
1.1.9.1- MECHANICAL COUPLING		
	TAVAN MEHVAR AZIN SANAT	IRAN
	KTR	GERMANY
1.1.9.2- HYDROCOUPLING		
	KTR	GERMANY
	TRANSFLUID	ITALY
1.2- FIXED EQUIPMENT		
1.2.1- DRUM & COLUMN		
	ABAN AIR COOLER	IRAN
	ALBORZ NOVIN SHIRAZ	IRAN
	ARTASH	IRAN
	ASAS SANAT PARS	IRAN
	ASGOON FELEZ SEPAHAN	IRAN
	AZAR AB	IRAN
	DISAL	IRAN
	FANAVARI NOVIN NIROO	IRAN
	FANKAVAN ENERGY POOYA	IRAN
	FATEH SANAT KIMIA	IRAN
	FOULAD PAYA	IRAN
	GARMA GOSTAR	IRAN
	GHATAT VA MACHINALAT SANAYE PETROCHIMI (TOOS)	IRAN
	JAHANKAR ESFAHAN	IRAN
	JAHAN TOSEE PARS SANAT	IRAN
	KARA SAZEH KIMIA	IRAN
	KASRAVAND	IRAN
	KAVEH MOBADDEL	IRAN
	KOUSHA ENERGY TABARESTAN	IRAN
	MACHIN DAROU	IRAN
	MACHIN SAZI ARAK	IRAN
	MACHIN SAZI KEYHAN KHORAMABAD	IRAN
	MACHIN SAZI ESFAHAN	IRAN
	MAHDIN	IRAN
	MAPNA BOILER & EQUIPMENT ENGINEERING & MANUFACTURING	IRAN
	MASNOUAT FELEZI SANGIN	IRAN
	MERAT POULAD	IRAN
	MOHANDESI VA SAKHTEMAN TIV ENERGY	IRAN
	MOHANDESI VA SAKHTE TAJHIZAT SEPAHAN MAPNA	IRAN
	NEYRPERSE	IRAN
	PARGASIRAN	IRAN
	PARS TECHNIC	IRAN
	PAYA SANAT AHWAZ	IRAN
	PAYSAZ	IRAN
	PETRO AVAN	IRAN
	PETRO GAZ NAMDARAN	IRAN
	PETRO KIMIA ARVIN	IRAN
	PETRO SAKHTI CHEHELSETOUN	IRAN
	POOLAD SAZAN FARAYAND	IRAN
	POULADVARZAN KIMIA*	IRAN
	REACTOR SAZ	IRAN
	SANATI AHANSAI	IRAN
	SANAYE PARSIAN SAZEH SEPAHAN	IRAN
	SIMAN SAZAN	IRAN
	SUPERACTIVE	IRAN
	SYSTEMHAYE SANATI TAKESTAN	IRAN
	TABADOL GOSTAR BOURAN	IRAN
	TAGHTIRAN	IRAN
	TAJHIZ FARAYAND ABANGAN	IRAN
	TASHA	IRAN
	TOLID TAJHIZAT SANGIN (HEPCO)	IRAN
	TOSEAE NIROO	IRAN
	ADM	FRANCE
	B.S.L. INDUSTRIES	FRANCE
	BELLELI ENERGY CPE SPA	ITALY
	CTAL	ITALY
	C.M.P	FRANCE
	COEK ENGINEERING	BELGIUM
	DELATTRE BEZONS	FRANCE
	DELAUNAY	FRANCE
	FBM HUDSON ITALIANA S.P.A.	ITALY
	G & G GELDOF	BELGIUM

COMPANY NAME	ORIGIN
GARDINAL	BELGIUM
HANS LEFFER	GERMANY
HITACHI KASADO YUKOYOCC	JAPAN
HYOSUNG	SOUTH KOREA
LODEWICK	BELGIUM
OFFICINE LUGI RESTA	ITALY
O.C.S	ITALY
OLMI	ITALY
ROLLE	ITALY
SIMIC	ITALY
SNIG	FRANCE
WALTER TOSTO	ITALY

1.2.2- H.P. STEAM DRUM

ASAS SANAT PARS	IRAN
FARAYAND BOKHAR	IRAN
DABOO SANAT	IRAN
KASRAVAND	IRAN
PETRO GAZ NAMDARAN	IRAN
TABADOL GOSTAR BOURAN	IRAN
TOSEAE NIROO	IRAN
BELLELI ENERGY CPE SPA	ITALY
BORSIG GMBH	GERMANY
DEUTSCHE BABCOCK-BALCKE & DURRE AG	JAPAN / GERMANY
FBM HUDSON ITALIANA S.P.A.	ITALY
FOSTER WHEELER ENERGY	UK
HITACHI KASADO	JAPAN
HITACHI ZOSSEN	JAPAN
INNOVELD	AUSTRIA
KAWASAKI HEAVY INDUSTRIES	JAPAN
OFFICINE LUGI RESTA S.P.A.	ITALY
MANGIAROTTI S.P.A.	ITALY
MITSUBISHI HEAVY INDUSTRIES	JAPAN
OLMI	ITALY
ROLLE	ITALY
STEINMULLER GMBH	GERMANY

1.2.3- ATMOSPHERIC STORAGE TANK

ALBORZ NOVIN SHIRAZ	IRAN
ARKAN SANAT PAYDAR	IRAN
ASAS SANAT PARS	IRAN
AZAR AB	IRAN
FANKAVAN ENERGY POOYA	IRAN
FOULAD PAYA	IRAN
GHATAT VA MACHINALAT SANAYE PETROCHIMI (TOOS)	IRAN
HILAVIS ARINA	IRAN
JAHAN TOSEE PARS SANAT	IRAN
KARA SAZEH KIMIA	IRAN
KAVEH MOBADEL	IRAN
KOOSHA ENERGY TABARESTAN	IRAN
MACHIN SAZI ARAK	IRAN
MACHIN SAZI ESFAHAN	IRAN
MACHIN SAZI KEYHAN KHORAMABAD	IRAN
MACHIN SAZI PARS	IRAN
MAHDIN	IRAN
MASNOUAT FELEZI SANGIN	IRAN
MERAT POULAD	IRAN
MOHANDESI VA SAKHTE TAJHIZAT SEPAHAN MAPNA	IRAN
NEYRPERSE	IRAN
PANAH SAZ IRAN	IRAN
PARGASIRAN	IRAN
PAYA SANAT AHWAZ	IRAN
PAYSANZ	IRAN
PETRO AVAN	IRAN

COMPANY NAME	ORIGIN
PETRO ENERGY KHALJE FARIS	IRAN
PETRO KIMIA ARVIN	IRAN
POULAD SAZAN FARAYAND	IRAN
POULAD VARZAN KIMIA*	IRAN
REACTOR SAZ	IRAN
MOHANDESI VA SAKHTEMAN TIV ENERGY	IRAN
SANATI AHANSAI	IRAN
PARAG SAZEH & PAARAAG INDUSTRIAL GROUP	IRAN
SANAYE PARSIAN SAZEH SEPAHAN	IRAN
SIMAN SAZAN	IRAN
SUPERACTIVE	IRAN
TABADOL GOSTAR BOURAN	IRAN
TASHA	IRAN
TOLID TAJHIZAT SANGIN (HEPCO)	IRAN
ZAGROS NASB SEPAHAN	IRAN
CTIAL	ITALY
STEINER GROUP	GERMANY
S-TANK	SOUTH KOREA

1.2.4- SPHERICAL TANK

ASAS SANAT PARS	IRAN
MACHIN SAZI ARAK	IRAN
MASNOUAT FELEZI SANGIN	IRAN
PETRO SAZEH BEINOLMELAL ARAM (IPS)	IRAN
POLAD SAZAN FARAYAND	IRAN
SANAYE PARSIAN SAZEH SEPAHAN	IRAN
BELLELI ENERGY CPE SPA	ITALY
CMP ALIES	FRANCE
G & G GELDOF	BELGIUM
MARALDI	ITALY
O.C.S	ITALY
STEINER GROUP	GERMANY
S-TANK	SOUTH KOREA
T.K.K.	JAPAN
WHESOE	UK

1.2.5- CRYOGENIC TANK

FANKAVAN ENERGY POOYA	IRAN
HAMPA ENERGY ENGINEERING & DESIGN CO. (HEDCO)	IRAN
ZAGROS NASB SEPAHAN	IRAN
CHIGAGO BRIDGE	UK
DAEWOOONG/HATCO	KOREA/IRAN
FOSTER WHEELER ENERGY	UK
KAWASAKI HEAVY INDUSTRIES	JAPAN
MARALDI	ITALY
MITSUBISHI HEAVY INDUSTRIES	JAPAN
MOTHERWELL BRIDGE	UK
S-TANK	SOUTH KOREA
STEINER GROUP	GERMANY
TASHA / MARALDI	IRAN / ITALY
T.K.K.	JAPAN
WHESOE	UK

1.2.6- SILO / HOPPER

ASAS SANAT PARS	IRAN
FANKAVAN ENERGY POOYA	IRAN
JAHAN TOSEE PARS SANAT	IRAN
MACHIN SAZI ESFAHAN	IRAN
MOPHID SEPAHAN	IRAN
ZAGROS NASB SEPAHAN	IRAN
CTIAL	ITALY
ELLIMETAL NV	BELGIUM
JANSENS & DIEPERINK B.V.	NETHERLANDS

1.2.7- HEAT EXCHANGER

1.2.7.1- SHELL & TUBE HEAT EXCHANGER

ABAN AIR COOLER	IRAN
ALBORZ NOVIN SHIRAZ	IRAN
ASAS SANAT PARS	IRAN
AZARAB	IRAN
DABOO SANAT	IRAN
DISAL	IRAN
FANAVARI HARARAT TABDIL(THERMO CHANGE)	IRAN
FATEH SANAT KIMIA	IRAN
FOULAD PAYA	IRAN
GARMA GOSTAR	IRAN
GHTATAT VA MACHINALAT SANAYE PETROCHIMI (TOOS)	IRAN

COMPANY NAME	ORIGIN
HILAVIS ARINA	IRAN
KASRAVAND	IRAN
KAVEH MOBADEL	IRAN
KIANA PETRO ENERGY	IRAN
MACHIN DAROU	IRAN
MACHIN SAZI ARAK	IRAN
MACHIN SAZI ESFAHAN	IRAN
MAHDIN	IRAN
MAPNA BOILER & EQUIPMENT ENGINEERING & MANUFACTURING	IRAN
MASNOUAT FELEZI SANGIN	IRAN
PARGASIRAN	IRAN
PETRO GAZ NAMDARAN	IRAN
PETRO KIMIA ARVIN	IRAN
PETRO SAKHT CHEHELSETOUN	IRAN
POULAD VARZAN KIMIA*	IRAN
ROOYAN TAJHIZ JAM	IRAN
SANAYE HARARATI IRAN	IRAN
PARAG SAZEH & PAARAAG INDUSTRIAL GROUP	IRAN
SHEGEFT AFZAR	IRAN
SUPER ACTIVE	IRAN
TABADOL GOSTAR BOURAN	IRAN
TASHA	IRAN
TEHRAN MOBADEL	IRAN
TOSEAE NIROO	IRAN
AEL	GERMANY
BELLELI ENERGY CPE SPA	ITALY
BOLDROCCHI ECO LOGIA S.R.L.	ITALY
BORSIG GMBH	GERMANY
CTIAL	ITALY
COEK ENGINEERING	BELGIUM
DELAUNAY	FRANCE
F.B.M HUDSON	ITALY
FOURE LAGADEC	FRANCE
G & G INTERNATIONAL NV	BELGIUM
G.E.A WIEGAND	GERMANY
GARGANO	ITALY
HANS LEFFER	GERMANY
HITACHI	JAPAN
LODEWUCK	BELGIUM
OFFICINE LUIGI RESTA S.P.A.	ITALY
MANGIAROTTI S.P.A.	ITALY
MITSUBISHI HEAVY INDUSTRIES	JAPAN
OLMI	ITALY
OMSA	ITALY
PETOR CARBON DEVELOPMENT	UK
ROLLE S.P.A.	ITALY
SIMIC	ITALY
STRIKO	GERMANY
VRV	ITALY
WALTER TOSTO	ITALY
1.2.7.2- H.T. SHELL & TUBE HEAT EXCHANGER	
HILAVIS ARINA	IRAN
AEL	GERMANY
BORSIG AG	GERMANY
COEK ENGINEERING	BELGIUM
DELAUNAY	FRANCE
FBM HUDSON ITALIANA S.P.A.	ITALY
FISHER LORRANIE	FRANCE
FOURE LAGADEC	FRANCE
HITACHI ZOSSEN	JAPAN

COMPANY NAME	ORIGIN
KOBE STEEL	JAPAN
LODEWUCK	BELGIUM
OFFICINE LUGI RESTA S.P.A.	ITALY
MANGIAROTTI S.P.A.	ITALY
OLMI	ITALY
RIBATTI	FRANCE
SCHMIDTSCHESSDAMPF GMBH	GERMANY
STEINMULLER GMBH	GERMANY / SPAIN

1.2.7.3- PLATE HEAT EXCHANGER

COOL SUMMER	IRAN
KAVEH MOBADEL	IRAN
TAHA GHALEB TOOS	IRAN
ALFA LAVAL S.P.A.	ITALY / JAPAN
APV	UK
DHP	SOUTH KOREA
GEA WIEGAND	GERMANY
KOCH	ITALY
LINDE AG	GERMANY
NEXON GROUP SAS	FRANCE
NI SAKA SEISAKUSHO	JAPAN
NORTON GMBH	GERMANY
S.R.D	GERMANY
SECATHEN (FOR WELDED PLATE)	FRANCE
STRIKO	GERMANY
SUMITOMO PRECISION PRODUCTS (SPP)	JAPAN
SONDEX	DENMARK
VICARB BENELUX	ITALY / BELGIUM

1.2.7.4- DOUBLE PIPE HEAT EXCHANGER

ALBORZ NOVIN SHIRAZ	IRAN
AZARAB	IRAN
DISAL	IRAN
HILAVIS ARINA	IRAN
MACHIN SAZI ARAK	IRAN
MACHIN SAZI ESFAHAN	IRAN
AEL	GERMANY
ASET	FRANCE
BROWN FINTUBE (KOCH)	FRANCE
GARGANO	ITALY
GRANDE MECCANICA	ITALY
SHEGEFT AFZAR	IRAN
SIRTEC	ITALY
SUITOMO HEAVY IND.	JAPAN

1.2.7.5- AIR COOLED EXCHANGER

ABAN AIR COOLER	IRAN
ALBORZ NOVIN SHIRAZ	IRAN
ASAS SANAT PARS	IRAN
DAMAFIN	IRAN
FANAVARI HARARAT TABDIL(THERMO CHANGE)	IRAN
FATEH SANAT KIMIYA	IRAN
HILAVIS ARINA	IRAN
KAVEH MOBADDEL	IRAN
KIANA PETRO ENERGY	IRAN
MACHIN SAZI ARAK	IRAN
MACHIN SAZI ESFAHAN	IRAN
POULAD VARZAN KIMIA*	IRAN
PARAG SAZEH & PAARAAG INDUSTRIAL GROUP	IRAN
SHEGEFT AFZAR	IRAN
TABADOL GOSTAR BOURAN	IRAN
AEL	GERMANY
TASHA	IRAN
BALCKE & DURRE	GERMANY

COMPANY NAME	ORIGIN
BOLDROCCHI SRL	ITALY
BTT / GEA	FRANCE / GERMANY / ITALY
F.B.M HUDSON	ITALY
GEA LUFTKERHLER	GERMANY
GRAHAM	UK
HAMON INDUSTRIES THERMIQUE	BELGIUM
KAWASAKI HEAVY INDUSTRIES	JAPAN
NEXON GROUP SAS	FRANCE
OLMI	ITALY

1.2.7.6- SPIRAL HEAT EXCHANGER

LINDE AG	GERMANY
NEXON GROUP SAS	FRANCE

1.2.8- EJECTOR

FAN NIROU	IRAN
FARAZARAB	IRAN
KARA TAHVIEH / KARA SANAT TADBIR PAYA	IRAN
KIANA PETRO ENERGY	IRAN
MOHANDESI VA SAKHTE TAJHIZAT SEPAHAN MAPNA	IRAN
PETRO GAZ NAMDARAN	IRAN
ANA GMBH	GERMANY
BERTIN TECHNOLOGIES SA	FRANCE
BOC EDWARDS	UK
BUSCH	UK
DELAS / WEIR	FRANCE
DEN HOLDER	NETHERLANDS
EQUIREPSA *	SPAIN
FACET	FRANCE
FLO - DYNE	UK
JAPAN EJECTOR ENGINEERING	JAPAN
NOVATEC	FRANCE
GEA JET PUMP	GERMANY
GEA WIEGAND	GERMANY
GEVEKE	THE NETHERLANDS
GRAHAM	UK
HICK HARGREAVES	UK
KIEKENS	NETHERLANDS
KORTING	GERMANY
OSAKA VACUUM	JAPAN

1.2.9- REACTOR

ASAS SANAT PARS	IRAN
AZARAB	IRAN
DISAL	IRAN
KAVEH MOBADEL	IRAN
KIANA PETRO ENERGY	IRAN
MACHIN SAZI ARAK	IRAN
MACHIN SAZI ESFAHAN	IRAN
MAHDIN	IRAN
MASNOUAT FELEZI SANGIN	IRAN
PARGASIRAN	IRAN

COMPANY NAME	ORIGIN
PAYSAZ	IRAN
POULAD SAZAN FARAYAND	IRAN
POULAD VARZAN KIMIA*	IRAN
REACTORS AZ	IRAN
BELLELI ENERGY CPE SPA	ITALY
C.M.P	FRANCE
CTIAL	ITALY
CIVIDAC	ITALY
COEK ENGINEERING	BELGIUM
DWE	GERMANY
FBM. HUDSON	ITALY
FELGUERA CALDERERA *	SPAIN
G & G GELDOF	BELGIUM
GRANDE MECCANICA	ITALY
HANS LEFFER	GERMANY
HITACHI ZOKEN	JAPAN
HYOSUNG	SOUTH KOREA
INNOWELD	AUSTRIA
KOBE STEEL	JAPAN
OFFICINE LUIGI RESTA S.P.A.	ITALY
MANGIAROTTI S.P.A.	ITALY
MTSUBISHI NAGASAKI MACHINE	JAPAN
MUNCH	FRANCE
ROLLE	ITALY
S.B.N	AUSTRIA
SIMIC	ITALY
UBE INDUSTRIES LTD	JAPAN
V.R.V	ITALY
ZANON	ITALY

1.2.10- INTERNAL PARTS

1.2.10.1- TRAY

AZAR ENERGY	IRAN
DAMAVAND FELEZ / MONTZ	IRAN / GERMANY
EURO SLOT PARS	IRAN
FOULAD PRESS	IRAN
PARGASIRAN	IRAN
PETROHAM PROCESS	IRAN
SANAYE PENTANE CHEMI	IRAN
BARETTI	ITALY
BAYER	GERMANY
CECA	FRANCE
COSTA CURTA	ITALY
ETA	UK
EURO SLOT	FRANCE
HMT	SOUTH KOREA
KOCH-GLITSCH S.P.A	ITALY / FRANCE
MTE	NETHERLANDS
NORTON GMBH	GERMANY
SULZER CHEMTECH / METAWA	SWITZERLAND / W.EUROPE

	COMPANY NAME	ORIGIN
1.2.10.2- CYCLONE		
	ASAS SANAT PARS	IRAN
	EURO SLOT PARS	IRAN
	PARGASIRAN	IRAN
	ALPINE	GERMANY
	CTAL	ITALY
	EMTROL	UK
	LUFFTECHNIK	GERMANY
	VAN TONGEREN	UK
1.2.10.3- SCRUBBER PACKAGE / FLUE GAS FILTER		
	EURO SLOT PARS	IRAN
	HAVA SYSTEM IRAN	IRAN
	KAVEH MOBADEL	IRAN
	PARGASIRAN	IRAN
	ABB FLAXT	FRANCE / GERMANY
	AIR CURE INC	GERMANY
	BEKAERT ADVANCED	BELGIUM
	JOHNSON FILTRATION SYSTEM	FRANCE
	LAB SA	FRANCE
	SERVITHEN	FRANCE
	SOCREMATIC	FRANCE
1.2.11- FIRED HEATER		
	CHAMAN	IRAN
	FALCON INSTRUMENTATION & MACHINERY FZE(KISH ISLAND BRANCH)	IRAN
	FANKAVAN ENERGY POOYA	IRAN
	FARAYAND BOKHAR	IRAN
	HEDCO	IRAN
	IRCAST / SCHAWENBERG	IRAN / GERMANY
	KIMIAGARAN SANAT PARS	IRAN
	MASNOUATE FELEZI SANGIN	IRAN
	ABB LUMMUS	NETHERLANDS
	BIH	UK
	BABCOCK WANSON	UK
	FOSTER WHEELER	FRANCE
	HEURTEY PETROCHEN	FRANCE
	IHI	JAPAN
	ITT SPA	ITALY
	K.T.I	ITALY
	KIRCHNER	ITALY
	KOBE STEEL	JAPAN
	NOVARGI	SPAIN
	SELAS LINDE	GERMANY
1.2.12- AIR PREHEATER / START UP HEATER		
	MASNOUATE FELEZI SANGIN	IRAN
	AIR OIL FLARE GAS SA	UK
	AST(BERTRAMS)	SWITZERLAND
	BALKE DURRE	GERMANY
	EET	FRANCE
	GEA LUFTKUEHLER GMBH	GERMANY
	HEURTEY PETROCHEN	BELGIUM / FRANCE
	HITACHI ZOSEN	JAPAN
	ITT SPA	ITALY
	S.C.R.D.	SWITZERLAND

1.2.13- SILENCER

COMPANY NAME	ORIGIN
AZAR AB	IRAN
EURO SLOT PARS	IRAN
FAN AZMAYAN POYANDEH	IRAN
FARAYAND BOKHAR	IRAN
KAVEH MOBADDEL	IRAN
KARA TAHVIEH / KARA SANAT TADBIR PAYA	IRAN
MACHIN SAZI ARAK	IRAN
MACHIN SAZI ESFAHAN	IRAN
MAPNA BOILER & EQUIPMENT ENGINEERING & MANUFACTURING	IRAN
PAYA SANAT AHWAZ	IRAN
SHAYAN TARH	IRAN
SUPER ACTIVE	IRAN
TASHA	IRAN
BOET	FRANCE
BURGESS MANNING	UK / FRANCE / GERMANY
FORAIN	ITALY
GERBER	GERMANY
MULLER BBM	GERMANY
QUIETFLO	NETHERLANDS
SAI	FRANCE
TIO	THE NETHERLANDS

1.2.14- STATIC MIXER

ASAS SANAT PARS	IRAN
EURO SLOT PARS	IRAN
KOCH	ITALY
LIGHTING MIXER	UK
NIPPON GEAR CO.LTD	JAPAN
PITALUGA	FRANCE / ITALY
PLENTY	UK
PREMATECHNIK	GERMANY
PRIMIX	NETHERLANDS
SIDAC	FRANCE
STIBBE	THE NETHERLANDS
STRIKO	GERMANY
SULZER	SWITZERLAND
VEOLIA ENVIRONMENTAL SERVICES	UK
WELDER B.V	NETHERLANDS

1.2.15- DESUPERHEATER

FARAYAND BOKHAR	IRAN
HEDCO	IRAN
KIANA PETRO ENERGY	IRAN
PETRO GAZ NAMDARAN	IRAN
BTG	SWEDEN
EMERSON	FRANCE / GERMANY
FAUDI	GERMANY
GEA LUFTKUHER GMBH	GERMANY
GESTRA AG	GERMANY
GRAHAM	UK
KENT PROCESS CONT	UK
KEYSTONE	UK
KIEKENS	NETHERLANDS
SAMSON A.G	FRANCE / GERMANY
SIMIC	ITALY
WIEGAND	GERMANY

COMPANY NAME **ORIGIN**

1.2.16- SEPARATOR & FILTER SYSTEM

CHAMAN	IRAN
DEYLANAN FILTER	IRAN
EURO SLOT PARS	IRAN
KASRAVAND	IRAN
KIANA PETRO ENERGY	IRAN
KAVEH MOBADEL	IRAN
MASNOAT FELEZI SANGIN	IRAN
PARGASIRAN	IRAN
PARS REGULATOR	IRAN
PETRO ARTAN PART	IRAN
PETROHAM PROCESS	IRAN
PETRO KIMIA ARVIN	IRAN
PETRO SAVIN SANAT	IRAN
SHAYAN TARH	IRAN
SYSTEMHAYE SANATI TAKESTAN	IRAN
TOSEAE NIROO	IRAN
ABB FLAXT	GERMANY/FRANCE
AIR CURE INC	GERMANY
ALFA LAVAL	ITALY
AMAFILTER SARL	FRANCE
ANDRITZ SEPARATION GMBLT	GERMANY
ASCO	ITALY
BEA FILTER	ITALY
BELLELI ENERGY CPE SPA	ITALY
BERGUM IMPIANTI	ITALY
BHS SONTHOFEN	GERMANY
CTIAL	ITALY
DAHLMAN	NETHERLANDS
ECOMACCHINE	ITALY
ENSEPATEC	GERMANY
EUROFIL TEC	UK
EURO SLOT	FRANCE
FAUDI FILTER SYSTEMS GMBH	GERMANY
FILTERS S.R.L.	ITALY
FLUIDEL	ITALY
FORAIN	ITALY
FUJI FILTER	JAPAN
G.SARTORI	ITALY
INGE	GERMANY
JOHNSON FILTRATION SYSTEM	FRANCE
LAB SA	FRANCE
LFC LOCHEM B.V.	THE NETHERLANDS
PLENTY FILTER	UK
REPCO S.R.L.	ITALY
SAB	GERMANY
SERVITHEN	FRANCE
SIRTEC NIGI	ITALY
SOCREMATI	FRANCE
STEINER GROUP	GERMANY
WELDERS FILTRATION TECHNOLOGY	BELGIUM

1.2.17- CENTRICAST TUBE & OUTLET MANIFOLD

BORSIG GMBH	GERMANY
CENTROMENT WRAZA	BELGIUM
DANACASTER	UK
FOSTER WHEELER	FRANCE
HEURTEY PETROCHEM	FRANCE
HYOSUNG	SOUTH KOREA
IHI	JAPAN
KOBE STEEL	JAPAN
KTI	ITALY

COMPANY NAME	ORIGIN
KUBOTA	JAPAN
MANOIR INDUSTRIES	FRANCE
NEXON GROUP SAS	FRANCE
PARALLOY BIDDING CLEVELAND	UK
S&T EXCHANGER	ITALY
SCHMIDT & CLEMENS *	GERMANY / SPAIN
SEL AS KIRCHNER	GERMANY

1.2.18- CONVECTION COIL / RADIATION TUBE

BENTLER	GERMANY
CARNOY	BELGIUM
CORROTHERM	UK
DAIDO STEEL	JAPAN
DEUTSCHE BABCOCK + BALCKE & DURRE	GERMANY
KTI	BELGIUM
KUBOTA	JAPAN
LMI	ITALY
SCHMIDT & CLEMENS	GERMANY
SCOMARK ENGINEERING	UK
SIRZ	ITALY
STEINMULLER	GERMANY

1.2.19- BURNER

PARS MASHAL (SAKI)	IRAN (UK)
SANAYE SHAHID BAGHERI	IRAN
AIROIL GMBH	GERMANY
B.C.E srl	ITALY
C.I.B UNIGAS	ITALY
DURIKER COMBUSTION ENG. B.V.	NETHERLANDS
EUROPEM	BELGIUM
FIVES POLLARD	FRANCE
GRAHAM	UK
GREENS COMBUSTION	UK
HAMWORTHY	UK
ITAS	ITALY
JOHN ZINK GMBH	LUXEMBORG
PREMATECHNIK	GERMANY
SULZER ESHER WYE	SWITZERLAND

1.2.20- REFRACTORY

AMOL CARBORANDOM	IRAN
ARMAN AYEGH SEPAHAN	IRAN
CERAMIC TEHRAN	IRAN
CERAMICHAYE SANATI ARDAKAN	IRAN
DIRGODAZ AMOL	IRAN
FARANASOUZ YAZD	IRAN
FARAVARDEH NASOOZ AZAR ESFAHAN	IRAN
FARAVARDEH NASOOZ TABRIZ	IRAN
FARAVARDEHAYE KANI GHEIRE FELEZI	IRAN
FARAVARDEHAYE NASOOZ IRAN	IRAN
FARAVARDEHAYE NASOOZ NIROU	IRAN

COMPANY NAME	ORIGIN
GAHAR CERAM	IRAN
MAVAD NASOOZE MAZAND PARS	IRAN
MODIRIAT FARAVARDEHAYE CERAMIC SPINEL	IRAN
BECKMANN	GERMANY
CIRIA	ITALY
DIDIER WERKE	GERMANY
JUNER AND GRATHER	GERMANY
KARRENA	GERMANY
PLIBRICO	UK / NETHERLANDS
THERMAL CERAMICS	UK

1.2.21- DEAERATOR

ASAS SANAT PARS	IRAN
AZARAB	IRAN
FARAYAND BOKHAR	IRAN
GARMA GOSTAR	IRAN
KIANA PETRO ENERGY	IRAN
MACHIN SAZI ARAK	IRAN
MACHIN SAZI KEYHAN KHORAMABAD	IRAN
MAPNA BOILER & EQUIPMENT ENGINEERING & MANUFACTURING	IRAN
MASNOAT FELEZI SANGIN	IRAN
BABCOCK / HITACHI	JAPAN
STORK THERMEQ	NETHERLANDS

1.2.22- SCREENING SYSTEM

RHEWUM	GERMANY
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1.3- PIPING

1.3.1- PIPE

IRAN SPIRAL	IRAN
LOOLEH GOSTAR ESFAVAYEN	IRAN
LOOLEH SAZI AHWAZ	IRAN
LOOLEH SAZI KHOZEESTAN	IRAN
LOOLEH SAZI MAHSHAHR	IRAN
LOOLEH SAZI SANG JAM	IRAN
LOOLEH VA PROFILE SAVEH	IRAN
LOOLEH VA TAJHIZAT SADID	IRAN
NAVARO LOOLEH GHAEEM QOM(SPIRAL)	IRAN
NAVARO VA LOOLEH AHWAZ	IRAN
NAVARO VA LOOLEH SAFA	IRAN
NAVARO VA LOOLEH SEPAHAN	IRAN
NAVARO VA LOOLEH KOWSAR SPADANA (SPIRAL)	IRAN
ARCELORMITTAL STAHL HANDEL	NETHERLANDS / GERMANY
AVESTA SANDVIK TUBE AB	SWEDEN
BHDT GMBH	AUSTRIA
BOUTING	GERMANY
CHERO PIPING	ITALY
CORUS	UK
DUFERCO	BELGIUM / SWITZERLAND
ECONOSTO	NETHERLANDS
EEW (ERNDTEBRÜCKER EISENWERK)	GERMANY
EURO PIPE	GERMANY
FORTIEX	ITALY
INTERMETAL2000	UK
IPS	NETHERLANDS
KOBE STEEL	JAPAN
KURVERS	FRANCE / GERMANY
MANFERROSTAAL	BELGIUM / NETHERLANDS
ULMA *	SPAIN

COMPANY NAME	ORIGIN
MANNESMAN HANDEL	GERMANY
MARDALE	UK
MARUBENI	JAPAN
MERRYFIELD	UK
MID STEEL PIPELINE LIMITED	UK
NIPPON STEEL	JAPAN
NIRO-TECHNIK	GERMANY
PHOCEENNE	FRANCE / BELGIUM
PIPE LINE TUBE & CASING	UK
RACCORTUBI	ITALY
SANDVIK (Pipe & Tube)	SWEDEN
SCHULTZ	GERMANY
SIDECO	ITALY
STEEL TRADE	ITALY
SUMITOMO METAL	JAPAN
TENARIS (EUROTUBE)	UK
THYSSEN	GERMANY
TPS	GERMANY
VAN LEEUWEN BUZEN	NETHERLANDS / BELGIUM

1.3.2- FITTING

FOOLAD ASA	IRAN
KARA PARNIAN SHARGH	IRAN
PARS REGULATOR	IRAN
PETRO SANAT ADEL	IRAN
STEEL ASA	IRAN
TOOS PEYVAND	IRAN
BASSI LUIGI	ITALY
CHERO PIPING	ITALY
CORUS	UK
DUGWOO	SOUTH KOREA
FAD	ITALY
FORTIEX	ITALY
GELD BACH	GERMANY
IM.L	ITALY
INTERMETAL2000	UK
KURVERS	FRANCE / GERMANY
MID STEEL PIPELINE LIMITED	UK
NIROTEC	
NIRO-TECHNIK	GERMANY
OMR	ITALY
PHOCEENNE	FRANCE / BELGIUM
PIPE LINE TUBE & CASING	UK
RACCORTUBI	ITALY
SANDVIK	SWEDEN
SCHULTZ	GERMANY
SCOMARK ENG.	UK
STEEL TRADE	ITALY
SUNG KWANG BEND	SOUTH KOREA
SUPERLOK *	SOUTH KOREA
TECTUBI RACCORDI	ITALY
TPS	GERMANY
VAN LEEUWEN BUZEN	NETHERLANDS / BELGIUM
ULMA *	SPAIN

1.3.3- FLANGE

COMPANY NAME	ORIGIN
AZIN FORGE	IRAN
GALPERTI IRAN	IRAN
GHARB FLANGE	IRAN
KARA PARNIAN SHARGH	IRAN
MACHIN SAZI ARAK	IRAN
MARO SANAT	IRAN
MOJTAMA SANATI ESFARAYEN	IRAN
MOJTAMA SHAHABADI	IRAN
PARS REGULATOR	IRAN
PETRO KOUSHESH JAM	IRAN
PETRO SANAT ADEL	IRAN
VESTA SANAT SAFAHAN	IRAN
CORUS	UK
DUGWOO	SOUTH KOREA
EFIND	ITALY
FAD	ITALY
FERRARI	GERMANY
FORTEX	ITALY
GELD BACH	GERMANY
I.M.L	ITALY
INTERMETAL2000	UK
KURVERS	FRANCE / GERMANY
LOIRE	FRANCE
MID STEEL PIPELINE LIMITED	UK
NIROTEC	
NIRO-TECHNIK	GERMANY
OFFICINE SANTAFEDE	ITALY
PHOCEENNE	FRANCE
PILLAR TECH *	SOUTH KOREA *
RACCORTUBI	ITALY
STEEL TRADE	ITALY
TECTUBI RACCORDI	ITALY
ULMA *	SPAIN
VAN LEEUWEN BUZEN	NETHERLANDS

1.3.4- BOLT & NUT

AZIN PICH	IRAN
BASTARVAN	IRAN
BEHIN FOULAD ATI GOSTAR	IRAN
FALAT ENERGY JAM	IRAN
FARASAZAN PICH GOSTARE PARS	IRAN
IRAN PITCH	IRAN
IRAN TOHID	IRAN
JAVAHER GHATEE SHARGH	IRAN
KIAN PITCH	IRAN
NIKAN TEK IRANIAN (IRAN TECHNIC)	IRAN
PARS PITCH	IRAN
PART SAZI MASHHAD	IRAN
PETRONUT	IRAN
PICH ETESAL PARS	IRAN
PITCH MOHREH SAZANE SANATI	IRAN
PITCH VA MOHREHAYE SANATI IRAN	IRAN
POOLAD PEECH KAR	IRAN
SAHAND POULAD	IRAN
TADAROKATE SANATI SEPAHAN	IRAN
OME	ITALY
PHOCEENNE	FRANCE

1.3.5- GASKET

BURGMANN PARS	IRAN
ERTEASH GHOSTAR PAYMAN	IRAN
GHATAT VA MACHINALAT SANAYE PETROCHIMI (TOOS)	IRAN
ATBIN ISTA	IRAN
KIAN VASHER SHARGH	IRAN
KIMIA FARAVAR SANAT	IRAN
KLINGIRAN	IRAN
MEHRBODAN	IRAN
PETRO IDEH KOUSHESH	IRAN
SANAYE VASHER SAZI BEHTA	IRAN

COMPANY NAME	ORIGIN
ECONOSTO	W.EUROPE
FLEXITALIC	UK
FMA	ITALY
JAMES WALKER	UK
TC KLINGER	GERMANY
TECNO TREX	ITALY

1.3.6- STEAM TRAP

ABZARDAGHIGH AZARSAM	IRAN
KAR AVARANE BOKHAR	IRAN
PARS REGULATOR	IRAN
SANAYE HAFTOME TIR ESFAHAN	IRAN
TALEH BOKHAR	IRAN
TAASISATE BOKHAR ESFAHAN	IRAN
ARI ARMATUREN	GERMANY
ARMSTRONG	UK
BEKO TECHNOLOGIES GMBH	GERMANY
DOUGLAS CHERO	ITALY
(FLOWSERVE CORPORATION)	BELGIUM / FRANCE
ECONOSTO	NETHERLANDS
GESTRA	GERMANY / FRANCE
JUCKER	ITALY
PLENTY	UK
SPIRAX SARCO	FRANCE
T.L.V (Trouble Less Valve)	JAPAN
YAMANTO KOUKI	JAPAN

1.3.7- STRAINER

AEVAZ TECHNIC	IRAN
DAMAVAND FELEZ	IRAN
EURO SLOT PARS	IRAN
KARAVARAN BOKHAR	IRAN
KOOSHA ENERGY TABARESTAN	IRAN
NAGHSH JAHAN PALAYEH	IRAN
PARS REGULATOR	IRAN
PERSIAN GPE	IRAN
PETRO ARTAN PART	IRAN
SANAYE HAFTOME TIR ESFAHAN	IRAN
YAZD FILTER	IRAN
ARI ARMATUREN	GERMANY
ARMSTRONG	UK
BEKO	GERMANY
EBUTECH	NETHERLANDS
INTERMETAL2000	UK
MATEC GROUP	ITALY
PLENTY	UK
SPIRAX SARCO	FRANCE
WOOSUNG FLOWTEC	SOUTH KOREA

	COMPANY NAME	ORIGIN
1.3.8- FLEXIBLE / EXPANSION JOINT		
	ENETAF SANE	IRAN
	ERTEASH GOSTAR PEYMAN	IRAN
	ERTEASHAT LASTIC IRAN	IRAN
	ERTEASHAT SANAT ARAK	IRAN
	ERTEASHAT SANATI IRAN	IRAN
	FELEXOR PARS	IRAN
	KAROON SAR	IRAN
	LASTIC SAHAND	IRAN
	MEHRBODAN	IRAN
	ELAFLEX	FRANCE / BELGIUM
	FLEXIDER	ITALY
	KEMPCHEM	GERMANY
	MATEC GROUP	ITALY

1.3.9- VALVE

1.3.9.1- MECHANICAL VALVES

	ASAL ARA	IRAN
	ATRONIC KISH	IRAN
	GOROOH FAJR MARKAZI	IRAN
	GOROOH SANATI GODAKHTAR	IRAN
	GOROOH SAZANDEGAN SANAT ESPADANA (GSSE)	IRAN
	MARO SANAT	IRAN
	MIRAB	IRAN
	NIKAN PETROTECH	IRAN
	PARS PANGAN	IRAN
	PARS REGULATOR	IRAN
	PETRO SANAT ENERGY	IRAN
	PETRO TAJHIZ SEPAHAN	IRAN
	POUYA SANAT SEPEHR ARMAN	IRAN
	RASTA GROUP INDUSTRIAL VALVE MFG & DEV	IRAN
	SADRA MAHAN PARSIAN	IRAN
	SANAYE GOSTARESH SHIRSAZI	IRAN
	SHIRHAYE SANATI ARDABIL	IRAN
	SHIRHAYE MAKHROOTIE KHAVARMIANEH (PLUG ONLY)	IRAN
	TAKVIN SANAT AFRA	IRAN
	TARAHANE TAJHIZE PISHGAM	IRAN
	TEHRAN SOFA	IRAN
	TOLID TAJHIZAT SANGIN (HEPCO)	IRAN
	ADAMS	GERMANY
	ADVANCED TECHNOLOGY VALVE (ATV)	ITALY
	ALCO VALVES LTD	UK
	ANDERSON	FRANCE / GERMANY
	APPARECCHI DI SICUREZZA EDI TENUTA S.P.A	ITALY
	ARFLU S.A. *	SPAIN
	ARI ARMATUREN	GERMANY
	ATHENA VALVE	ITALY
	BABCOCK *	SPAIN
	BAC VALVE	SPAIN
	BAF VALVES B.V	NETHERLANDS
	BESTOBELL VALVES LTD	UK
	BOEHMER	GERMANY
	BONNEY FORGE	ITALY
	BRAY VALVE & CONTROLS	GERMANY/UK
	BURACCO	FRANCE
	CAPITAL VALVE	UK
	DANIEL INDUSTRIES	UK
	DELLA FUGLI	ITALY
	DELTA PACIFIC VALVE DPV	UK
	DENNIS NAKAKITA	SPAIN
	FLOWSERVE CORPORATION	BELGIUM / GERMANY
	DURIRON	CANADA
	ECONOSTO	NETHERLANDS
	EMERSON	NETHERLANDS
	ERREESSE	ITALY
	FASANI S.P.A.	ITALY
	FEMA	ITALY
	FLOW TECH	UK

	COMPANY NAME	ORIGIN
	FG VALVOLE SRL(GATE,GLOBE & CHECK VALVES)	ITALY
	GEMELS (BALL VALVE)	ITALY
	GEMU	GERMANY
	GESTRA	GERMANY / SPAIN
	GOODWIN INTERNATIONAL	UK
	GROVE DRESSER	ITALY
	GUICHON VALVES (VALCO GROUP)	FRANCE
	HS VALVE	SOUTH KOREA
	IN LINE	UK
	IPS	NETHERLANDS
	KITZ CORPORATION	JAPAN
	KURVERS	GERMANY / FRANCE
	LAZARO ITUARTE INTERNATIONAL, S.A. *	SPAIN
	LVF S.P.A.	ITALY
	MALBRANQUE (VALCO GROUP)	FRANCE
	MULTIVALVE TECHNOLOGY	UK
	ORBIT	UK
	PETRO VALVS	ITALY
	PFEIFFER	GERMANY
	PHOCEENNE	FRANCE / BELGIUM
	PIBIVIESSE	ITALY
	PIETRO FIORTINI	ITALY
	PK VALVE	SOUTH KOREA
	PROVALVE	GERMANY
	RAIMONDI	ITALY
	RBR VALVOLE SPA	ITALY
	RINGO VALVULAS *	SPAIN
	ROBERT CORT	UK
	SAMJIN	SOUTH KOREA
	SANDRERES	UK
	SERCK AUDCO VALVE	UK
	SHIPHAM VALVES	UK
	SHIRAKAWA	JAPAN
	SHUCTK	GERMANY
	S&S VALVE	S.KOREA
	STOCKHAM VALVE	UK
	SUD ROBINETTERIE INDUSTRIES	FRANCE
	SUPERLOK *	S.KOREA
	TAI MILANO S.P.A.	ITALY
	TECHNO FRANCE	FRANCE / ITALY
	THYSSEN	GERMANY
	UNICOM	S.KOREA
	VALVITALIA *	ITALY
	VALVOSIDER	ITALY
	VELAN	GERMANY
	VECTOR & WELLHEADS SL(VECTOR VALVES)	ITALY
	VITAS	ITALY
	WEIR VALVE & CONTROL	UK
	WOOSUNG VALVE	SOUTH KOREA
	YT	SOUTH KOREA
	ZA, VE,RO INDUSTRIAL VALVES	ITALY
1.3.9.2-	SAFETY VALVES	
	GOROOH SAZANDEGAN SANAT ESPADANA (GSSE)	IRAN
	MIRAB	IRAN
	PERSIAN GPE.	IRAN
	SANATI TOLIDI HEZAVEH ARAK	IRAN
	SANAYE FARA TOSEYE KIASA	IRAN
	ARI ARMATUREN	GERMANY
	BURACCO	FRANCE
1.3.9.3-	BALL VALVES	
	SADRA MAHAN PARSIAN	IRAN
	BREMER	GERMANY
	FG VALVOLE SRL	ITALY
	GOODWIN INTERNATIONAL	UK
	LVF S.P.A.	ITALY
	PFEIFFER	GERMANY
	S&S VALVE	S.KOREA
	VECTOR & WELLHEADS SL(VECTOR VALVES)	ITALY
1.3.9.4-	SPECIAL VALVES	
	SADRA MAHAN PARSIAN(ORBIT VALVE/THROUGH CONDUIT GATE VALE DOUBLE DISK	IRAN
	BREMER (CRYOGENIC VALVE)	GERMANY
	BURACCO (CRYOGENIC VALVE)	FRANCE
	FG VALVOLE SRL(CRYOGENIC VALVE)	ITALY
	LVF S.P.A.	ITALY
	S&S VALVE (CRYOGENIC VALVE)	S.KOREA
1.3.10-	SPRING SUPPORT AND HANGER	
	ARKAN SANAT PAYDAR	IRAN
	NIROO TAVAN	IRAN
	SAMANDEHAN NOW ANDISH	IRAN
	SANATI TOLIDI HEZAVEH ARAK	IRAN
	BHP SYSTEMS DESIGN	USA / W. EUROPE
	FELEXIDER	ITALY

LISEGA	GERMANY
PIPING TECHNOLOGY & PRODUCT	USA / W. EUROPE
UEC INDUSTRIES	UK
WALRABEN	GERMANY

1.4- PACKAGE UNIT

COMPANY NAME

ORIGIN

1.4.1- UTILITY PACKAGE

1.4.1.1- POWER GENERATION

ABB	GERMANY
ALSTOM	FRANCE
GE	W.EUROPE
HITACHI	JAPAN
KAWASAKI	JAPAN
ROLLS ROYCE ALLISON	UK
SIEMENS	GERMANY

1.4.1.2- BOILER (WATER/FIRE TUBE)

1.4.1.2.1- WATER TUBE BOILER

AZARAB	IRAN
BAMIN TECH	IRAN
DABOO SANAT	IRAN
FARAYAND BOKHAR	IRAN
GARMA GOSTAR	IRAN
KIANA PETRO ENERGY	IRAN
MAPNA BOILER & EQUIPMENT ENGINEERING & MANUFACTURING	IRAN
OSVEH IRAN INDUSTRIAL GROUP	IRAN
BABCOCK / HITACHI	JAPAN
BALCKE DURR	GERMANY
DEUTSCHE BABCOCK AG	GERMANY
FOSTER WHEELER	UK / GERMANY
MACCHI S.P.A.	ITALY
O.C.S	ITALY
SIMIC	ITALY
STEINMULLER	GERMANY
WELCRON KANGWON	S.KOREA

1.4.1.2.2- FIRE TUBE BOILER

FARAYAND BOKHAR	IRAN
DABOO SANAT	IRAN
GARMA GOSTAR	IRAN
MACHIN SAZI ARAK	IRAN
O.C.S	ITALY
PAKMAN	IRAN
SIMIC	ITALY

1.4.1.3- HEAT RECOVERY STEAM GENERATION

AZARAB	IRAN
MAPNA BOILER	IRAN
MASHIN SAZI ARAK	IRAN
MAPNA BOILER & EQUIPMENT ENGINEERING & MANUFACTURING	IRAN
THERMO DESIGN INC.	CANADA
ALSTOM	FRANCE
FOSTER WHEELER	FRANCE
NC-CCT	ITALY
NECHNIK-KTI	ITALY
NEM BV	NETHERLANDS
UMAG TECHNOLOGIE GMBH	GERMANY
WELCRON KANGWON	S.KOREA

	COMPANY NAME	ORIGIN
1.4.1.4- N2 / O2 UNIT		
	HAVA ABZAR TEHRAN (HATCO)	IRAN
	ADICOMP	ITALY
	AIR LIQUIDE	FRANCE
	AIR PACK	NETHERLAND
	AIR PRODUCT	FRANCE
	CRYOTEC AN LAGENBAU	GERMANY
	HANWHA POWER SYSTEM	S.KOREA
	INMATECH	GERMANY
	K.M.E	ITALY
	LINDE AG	GERMANY
	MAHLER AGS	GERMANY
	NIHON SANSO	JAPAN
	POLARIS	ITALY
	SIAD MACCHINE IMPIANTI	ITALY
1.4.1.5- COOLING TOWER		
	ARYA BENIZ	IRAN
	FARABARD	IRAN
	LIROK	IRAN
	TAVAN AFZAR	IRAN
	MOMTAZ GOSTAR PARS	IRAN
	TANAM SEPAHAN	IRAN
	BALCKE DURE / MARELLY	GERMANY / W.EUROPE
	DONGHAE	SOUTH KOREA
	ECODYNE	CANADA
	GEA	GERMANY
	HAMON INDUSTRIES THERMIQUE	BELGIUM
	SPX COOLING TECHNOLOGIES	GERMANY
1.4.1.6- WASTE WATER TREATMENT		
	ABNIC	IRAN
	ABSUN PALAYESH	IRAN
	ABSUN ZOLAL	IRAN
	ARON AB	IRAN
	CHAMAN (MOHANDESI VA SAKHT)	IRAN
	FANKAVAN ENERGY POOYA	IRAN
	HAMOON RAH	IRAN
	HYDROPARS PETRO SAYAL	IRAN
	KASRAVAND	IRAN
	KAVEH MOBADEL	IRAN
	KHERAD ENERGY & ENVIRONMENT	IRAN
	LUMAN SANAAT	IRAN
	MACHINE SAZI VJEH (MSV)	IRAN
	MAPNA BOILER & EQUIPMENT ENGINEERING & MANUFACTURING	IRAN
	NOVIEN ZOLAL	IRAN
	PENDER	IRAN
	PETROGAZ NAMDARAN	IRAN
	TAVAZON FARAB	IRAN
	VAHANG SARAN	IRAN
	ZOLALE IRAN	IRAN
	DEGREMONT/FARASSAN	FRANCE
	ENVIROCHEMIE	GERMANY
	IDRECO	ITALY
1.4.1.7- WATER TREATMENT		
	ABNIC	IRAN
	ABSUN PALAYESH	IRAN
	ABSUN ZOLAL	IRAN
	CHAMAN (MOHANDESI VA SAKHT)	IRAN
	FANKAVAN ENERGY POOYA	IRAN
	HAMOON RAH	IRAN
	HYDROPARS PETRO SAYAL	IRAN
	KASRAVAND	IRAN
	LUMAN SANAAT	IRAN
	MACHINE SAZI VJEH (MSV)	IRAN
	MAPNA BOILER & EQUIPMENT ENGINEERING & MANUFACTURING	IRAN
	PENDER	IRAN
	PETROGAZ NAMDARAN	IRAN
	TAVAZON FARAB	IRAN
	VAHANG SARAN	IRAN
	SHAHRAB SHARGH TEHRAN	IRAN
	ZOLAL IRAN	IRAN
	CECA SA	FRANCE
	DEGREMONT/FARASSAN	FRANCE
	ENVIROCHEMIE	GERMANY
	IDRECO	ITALY
	METITO	UK
1.4.1.8- DESALINATION UNIT		
	ABSUN ZOLAL	IRAN
	FANAZARAB	IRAN
	FAN NIRO	IRAN

KASRAVAND	IRAN
KAVEH MOBADEL	IRAN
MAPNA BOILER & EQUIPMENT ENGINEERING & MANUFACTURING	IRAN
MOHANDESI VA SAKHTE TAJHIZAT SEPAHAN MAPNA	IRAN
PENDER	IRAN
PETROGAZ NAMDARAN	IRAN
VAHANG SARAN	IRAN
VA-THE-VAG	IRAN
ALFA LAVAL	ITALY
AXIOM	AUSTRIA
DEGREMONT	FRANCE
SIDEM	FRANCE

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
1.4.1.9- PLANT / INSTRUMENT AIR PACKAGE		
	HAVA ABZAR TEHRAN (HATCO)	IRAN
	HAVAKARAN SANAT	IRAN
	HAVAYAR	IRAN
	YEKTA TAHVIEH ARVAND	IRAN
	AIR PACK	NETHERLAND
	ATLAS COPCO	GERMANY/SWITZERLAND
	BLUTEK	ITALY
	HANWHA POWER SYSTEM	S.KOREA
	INMATECH	GERMANY
	KK & K	GERMANY
	SIAD MACCHINE IMPIANTI	ITALY
1.4.1.10- INCINERATOR PACKAGE		
	CHAMAN (MOHANDESI VA SAKHT)	IRAN
	BLUTEK	ITALY
	DEGREMONT	FRANCE
	EUROPEM	BELGIUM
	GBA	ITALY
	IDRECO	ITALY
	JOHN ZINK	UK
	ITAS	ITALY
	NOVARGI	SPAIN
1.4.1.11- EMERGENCY DIESEL GENERATION		
	ARYA MACHINERY (CATERPILLAR)	IRAN
	FARS DIESEL	IRAN
	MAH NIROO	IRAN
	MAN DIESEL & TURBO SE	GERMANY
	MITSUBISHI HEAVY INDUSTRIES	JAPAN
	MTU	GERMANY
	MVM	GERMANY
	PERKINS ENGINES COMPANY LTD	UK
	SDMO	FRANCE
	SIEMENS	GERMANY
	VOLVO	SWEDEN
	WARTSILA CORPORATION	FINLAND / THE NETHERLANDS
1.4.1.12- COOLING WATER REFRIGERATION PACKAGE		
	ABAN AIR COOLER	IRAN
	MY COM	JAPAN
1.4.2- PROCESS PACKAGE		
1.4.2.1- REFRIGERATION PACKAGE		
	ARMANIK SANAT	IRAN
	KOUSHA ENERGY TABARESTAN	IRAN
	MASIR SABZ DELTA	IRAN
	AIR LIQUIDE	FRANCE
	AXIMA & GRENCOBL	FRANCE
	CARRIER FRANCE SA	FRANCE / BELGIUM
	CASTAIN	UK
	CCM SULZER	FRANCE
	COOL TECH	FINLAND
	EBARA	JAPAN
	FLUIDECO	SPAIN
	LINDE AG	GERMANY
	MY COM	JAPAN
	POLAR	GERMANY
	QUIRT	FRANCE
	THI *	SOUTH KOREA
	TRANE	FRANCE / BELGIUM
	YORK	FRANCE

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
1.4.2.2- DRYER PACKAGE		
	CHAMAN (MOHANDESI VA SAKHT)	IRAN
	HAVA ABZAR TEHRAN (HATCO)	IRAN
	HAVAYAR	IRAN
	KOUSHA ENERGY TABARESTAN	IRAN
	SHID GHESHM	IRAN
	SUPER ACTIVE	IRAN
	AIR PACK	NETHERLAND
	CMI INDUSTRIAL HRSG NV	BELGIUM
	COEK ENGINEERING	BELGIUM
	COHIN	W.EUROPE
	ELLIMETAL	BELGIUM
	FISCHER	FRANCE
	G & G INTERNATIONAL NV	BELGIUM
	GALA	USA / W.EUROPE
	IDRECO	ITALY
	NAT	FRANCE
	NATOO	FRANCE
	SILICA	GERMANY
	SNG	FRANCE
1.4.2.3- CHEMICAL INJECTION		
	CHAMAN (MOHANDESI VA SAKHT)	IRAN
	FANKAVAN ENERGY POOYA	IRAN
	FARAYAND BOKHAR	IRAN
	HAMOON RAH	IRAN
	HYDROPARS PETRO SAYAL	IRAN
	KARDANAN SHARGH Co.	IRAN
	KAVEH MOBADEL	IRAN
	KIANA PETRO ENERGY	IRAN
	KOUSHA ENERGY TABARESTAN	IRAN
	MACHIN SAZI NEEV	IRAN
	MASIR SABZ DELTA	IRAN
	PETRO FANAVARAN FATEH	IRAN
	PETRO SAVIN SANAT	IRAN
	RASTA GROUP INDUSTRIAL VALVE MFG & DEV	IRAN
	TEHRAN JAVAN	IRAN
	ATELIER-DE-FOS	ITALY
	DKM POMPES SA	FRANCE
	DOSARPO MILTON	FRANCE
	ECOMACCHINE	ITALY
	FLUIDECO	SPAIN
	HOODGVELD PROCESS EQUIPMENT	THE NETHERLANDS
	MILTON ROY EUROPE	FRANCE
	OMG OFFICINE MECANICHE GALLARATESI SPA	ITALY
	PERONIPOMPE	ITALY
	PROMINENT	GERMANY
	REPCO S.R.L	ITALY
	SALINE WATER SPECIALISTS (SWS)	ITALY
	SEKO	ITALY
1.4.2.4- HYDROGEN PACKAGE		
	ADICOMP	ITALY
	AIR PACK	NETHERLAND
	BLUTEK	ITALY
	LINDE AG	GERMANY
	MAHLER AGS	GERMANY
	SILICA	GERMANY
1.4.2.5- PSA		
	HAVA ABZAR TEHRAN (HATCO)	IRAN
	HAVAYAR	IRAN
	MAPNA BOILER & EQUIPMENT ENGINEERING & MANUFACTURING	IRAN
	AIR PACK	NETHERLAND
	CRYOTEC AN LAGENBAU	GERMANY
1.4.2.6- HRU		
	WILL BE ADVISED LATER	

	COMPANY NAME	ORIGIN
1.4.2.7- COLD BOX		
	HILAVIS ARINA	IRAN
	AIR LIQUID	FRANCE
	AIR PRODUCT	FRANCE
	CASTAIN	UK
	KOBELCO	JAPAN
	LINDE AG	GERMANY
	POLARIS	ITALY
	SIAD MACCHINE IMPIANTI	ITALY
	SUMITOMO PRECISION PRODUCTS	JAPAN
1.4.2.8- CATALYST PNEUMATIC TRANSPORT		
	BONYAN EMAN	IRAN
	DISAL	IRAN
	IRAN OIL	IRAN
	PARK TECHNIC	IRAN
	SYSTEMHAYE SANATI TAKESTAN	IRAN
	TAMKAR	IRAN
	BUHLER MIAG	FRANCE
	NEU	BELGIUM / FRANCE
	NOL-TEC	ITALY
	SANTENS ENG. SERNIVICES	BELGIUM
1.4.2.9- ELECTRO CHLORINATION		
	DE NORA	ITALY
	SESPI	ITALY
1.4.2.10- AIR SEPARATION UNIT (ASU)		
	HAVA ABZAR TEHRAN (HATCO)	IRAN
	HAVA YARJOINT WITH "SICHUAN AIR SEPARATION PLANT GROUP")	IRAN
1.4.2.11- REFORMER		
	FALCON INSTRUMENTATION & MACHINERY FZE(KISH ISLAND BRANCH)	IRAN
	HEDCO	IRAN
	NOVARGI	SPAIN
1.4.3- SPECIAL PACKAGE		
1.4.3.1- HVAC SYSTEM		
1.4.3.1.1- COMPRESSION CHILLING		
	ABGARDAN	IRAN
	ARMANIK SANAT	IRAN
	ATMOSPHERE	IRAN
	CENTIGRAD	IRAN
	GHESHM TAHVIEH	IRAN
	GORO OH SANATI IRANIAN	IRAN
	HAVA SAZ	IRAN
	KARA TAHVIEH / KARA SANAT TADBIR PAYA	IRAN
	LIROK	IRAN
	MEHR ASL	IRAN
	NASEEM GOSTAR	IRAN
	RADIRAN	IRAN
	SABA AFARIN	IRAN
	SABALAN GOSTAR TAHVIEH	IRAN
	SAFIYAD	IRAN
	SANAYEH SARMA AFARIN	IRAN
	SARAN	IRAN
	SARAVAN	IRAN
	SARAVEL	IRAN
	SARMA AFARIN	IRAN
	SHAYA DAMA	IRAN
	TAHVIEH	IRAN
	TEHRAN TAHVIE GHESHM	IRAN
	ZA HESH	IRAN
	YEKTA TAHVIEH ARVAND	IRAN
	YORK IRAN	IRAN
	AXIAL FAN	ITALY
	ROSENBERG	GERMANY

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
1.4.3.1.2- ABSORPTION CHILLING		
	ARYA BENIZ	IRAN
	SARI POUYA	IRAN
	TABADOL GOSTAR BOURAN	IRAN
	YEKTA TAHVIEH ARVAND	IRAN
	YORK IRAN	IRAN
	ZAHESH	IRAN
	AXIAL FAN	ITALY
	EBARA	JAPAN
1.4.3.2- FLARE SYSTEM		
	FANKAVAN ENERGY POOYA(joint with THERMO ENGINEERING)	IRAN/ITALY
	KASRAVAND	IRAN
	KIMIAGARAN SANAT PARS	IRAN
	MASNOUAT FELEZI SANGIN	IRAN
	MASHIN FOULAD JONOUB	IRAN
	MASHIN SAZI ESFAHAN	IRAN
	SYSTEMHAYE SANATI TAKESTAN / THERMO ENGINEERING	IRAN / ITALY
	TASHA / HAMWORTHY	IRAN / THE NETHERLANDS
	TEHRAN JAVAN	IRAN
	AIR OIL FLARE GAS	UK / FRANCE
	BIRWEL	UK
	ESCHER	THE NETHERLANDS
	GBA	UK
	EUROPEM	BELGIUM
	HOOGVELD	THE NETHERLANDS
	ITAS IMPIANTI THERMOTECHNICS	ITALY
	JOHN ZINK	JAPAN / UK / LUXEMBOURG
	KALDAIR	UK
	NIPPON NATIONAL AIR OIL BURNER	JAPAN
	PREMATECHNIK	GERMANY
	SAMIA S.R.L.	ITALY
	STIBBE	THE NETHERLANDS
1.4.3.3- BAGGING / PALLETIZING / SHRINKING SYSTEM		
	GOROOH SANATI FARINEH / HAVER & BOECKER	IRAN / GERMANY
	MAH MACHIN	IRAN
	PEYKAREH / WINDMOLLER & HOLSCHER	IRAN / GERMANY
	BAGLINE	ITALY
	BEUMER MASCHINEN FABRIK GMBH	GERMANY
	MOLLERS	GERMANY
	STATEC BINDER	AUSTRIA
	ZEPHLIN	GERMANY
1.4.3.4- BIG BAG SYSTEM		
	FARINEH MASHIN	IRAN
	MAH MACHIN	IRAN
	KRONOS RICHARSON	ITALY
	MOLLERS	GERMANY
	NOL-TEC	ITALY
1.4.3.5- DRUM FILLING PACKAGE		
	FEIGE GMBH	GERMANY
	LOG DOS	GERMANY
	NOL-TEC	ITALY
	SIG COMA CO	ITALY

	COMPANY NAME	ORIGIN
1.4.3.6- CONVEYING SYSTEM		
1.4.3.6.1- CONVEYER BELTS		
	DUNLOP	THE NETHERLANDS
1.4.3.6.2- CONVEYER PACKAGE		
	TEIF SEPAHAN	IRAN
	SIMAN SAZAN	IRAN
	FAM FORDERANLAGEN MAGDEBURG GMBH	GERMANY
	HIRATA INDUSTRIAL MACHINERY	JAPAN
	HOFFMEISTER-LEUCHTEN GMBH	GERMANY
	KRUPP	GERMANY
	NOL-TEC	ITALY
	P.H.B	GERMANY
	TECHINT TECHNOLOGIES	ITALY
	TECNO RULLI	ITALY
1.4.3.7- BUCKET ELEVATOR		
	ADVAN CORPORATION	JAPAN
	DOUBRAVA GMBH & CO. KG	AUSTRIA
	EMDE INDUSTRIE-TECHNIK GMBH	GERMANY
1.4.3.8- CRUSHER		
	BAUERMISTER	GERMANY
	P.H.B	GERMANY
1.4.3.9- RECLAIMER		
	P.H.B	GERMANY
1.4.3.10- LOADING & UNLOADING ARM		
	BAHRAM BAZOO	IRAN
	JAHAD DANESHGAHI ELM VA SANAT	IRAN
	PERSIAN GPE.	IRAN
	RAHROVAN SANAT VA ENERGY ASIA	IRAN
	FMC EUROPE SA ENERGY SYSTEMS DIV.	FRANCE
	IGATEC	GERMANY
	SVT	GERMANY
	WOODFIELD SYSTEMS LTD	UK
1.4.3.11- ELEVATOR / LIFT (EX)		
	COUPL. ASANSOR	IRAN
	SAHAND	IRAN
	OTIS	GERMANY
	SCHINDLER	GERMANY
1.4.3.12- PIG LAUNCHER & RECEIVER		
1.4.3.12.1- PIG CUP & SPHERE		
	MAHDIN	IRAN
	SANAYE POLYURTAN SAVAY	IRAN
	ZAHER	IRAN
	KLIEISS & CO BV.	UK/THE NETHERLANDS
	PIPELINE ENG.(PE)	UK
	TD WILLIAMSON	UK
1.4.3.12.2- LAUNCHER & RECEIVER		
	JAHED SANAT	IRAN
	KASRAVAND	IRAN
	PARGASIRAN	IRAN
	PETRO ENERGY KHALJE FARS	IRAN
	PETRO GAZ NAMDARAN	IRAN
	SANAYE FARA TOSEYE KIASA	IRAN
	REPCO S.R.L	ITALY
	RMA	GERMANY
	SIMIC	ITALY
	TECTUBI	ITALY
1.4.3.13- LUBE OIL UNIT		
	AEL	GERMANY
1.4.3.14- GANGWAY SYSTEM		
	VERHOEF	NETHERLAND
1.4.3.15- QUICK RELEASE HOOK		
	RAHROVAN SANAT VA ENERGY ASIA	IRAN

1.5- GENERAL ITEMS

1.5.1- INSULATION

COMPANY NAME	ORIGIN
ARMAN AYEGH SEPAHAN	IRAN
AYEGH PARDIS SAEI	IRAN
AYEGH SEPAHAN	IRAN
BAB	IRAN
FARAZ AYEGH ZARRIN	IRAN
GILAN MICA	IRAN
IDEH SAZAN	IRAN
JAHAN AYEGH PARS	IRAN
KLEVERS ARYANA(FABRIC & JACKET)	IRAN
MOHANDESI SANAT DAVAM SHIMIE(COLD,POLYURETHANE)	IRAN
PASHM SANG PARAMIS	IRAN
PASHM & SHISHEH IRAN / THERMO TANK	IRAN
PASHM CERAMIC IRAN	IRAN
PASHME SANG ARYA	IRAN
PASHME SARBAREH ASIA	IRAN
PASHM SANG IRAN	IRAN
PASHM SANG VILA	IRAN
PASHM SARBAREH IRAN	IRAN
PERLIT SININ KIMIA (PERLIT)	IRAN
PETRO ARTON / FINETEC CORP.	IRAN / S.KOREA
SAMANDEHAN NOW ANDISH	IRAN
TARABGIN	IRAN
TARADIS	IRAN
Kd ONE *	SOUTH KOREA

1.5.2- PAINT

AHWAZ RANG (AFTAB)	IRAN
AMITIS	IRAN
ATI FAM PAYDAR	IRAN
BAJAK	IRAN
DARYA RANG	IRAN
DEMIS SHIMI	IRAN
EXIR PARTO OMIID	IRAN
GITI ASA	IRAN
GOHAR FAM	IRAN
GOROOH RANG PEDRAM	IRAN
KHODRANG CHEMICAL INDUSTRIES	IRAN
MAHLA	IRAN
MAROUN POUSHESH	IRAN
NEGIN ZEREH	IRAN
NIK MAHZAR SPADANA	IRAN
NILI FAM	IRAN
PARS ALBORZ POUSHESH	IRAN
PARSI FAM	IRAN
PARS OCEAN	IRAN
PARS PAMCHAL	IRAN
PARSINCO	IRAN
POOSHESHAYE SANATI DARYAEE SHOMAL	IRAN
RANA KIMIA	IRAN
RANG ALVAN	IRAN
RANG ARGHAVAN / ARANG SHIMI	IRAN
EXIR POOSHESH OMID	IRAN
RANG FIROUZEH SHIRAZ	IRAN
MAX PAINT	IRAN
RANG SAZI IRAN	IRAN
RANG SAZI TEHRAN ORANUS	IRAN
RANG SOORMEH	IRAN
RANGANFAR	IRAN
RANGDANEH KALA	IRAN
RANGHAYE SANATI IRAN	IRAN
RANGIN	IRAN
RANGIN ZEREH	IRAN
RONASS	IRAN
SABA SHIMI ARYA	IRAN
SANAYE CHEMIYAE BUSHEHR	IRAN
PETRO RANG PARAG	IRAN
SANAYE RANG KROMAT	IRAN
SARV RANG	IRAN
SHAKIBA	IRAN
TAKRANG KAR	IRAN
TEIF IRAN	IRAN
YASHM	IRAN
ZARFAM POLYMER	IRAN
ZARRIN FAM	IRAN
JOTUN PROTECTS PROPE	NORWAY

	COMPANY NAME	ORIGIN
1.5.3- FLEXIBLE METAL HOSE		
	BOOSHIRAN	IRAN
	BURGMANN PARS	IRAN
	ZADA	IRAN
	GEORGE BOYD	UK
	HANSA FLEX	GERMANY
	JOHN MORRIS SIEBE	UK
	MATEC GROUP	ITALY
	WILLCOX FLUID HANDLING	UK
1.5.4- COATING & WRAPPING		
	AMITIS	IRAN
	BAJAC	IRAN
	ISO SEAL	IRAN
	NIASHIMI	IRAN
	NAVARD LOOLEH VA POOSHESH NEYZAR	IRAN
	NIK MAHZAR SPADANA	IRAN
	PARS ALBORZ POUSSHESH	IRAN
	PARSI FAM	IRAN
	POOSHESH HAYE SANATI DARYAEE SHOMAL	IRAN
	EXIR PARTO OMI	IRAN
	MAX PAINT	IRAN
	PETRO RANG PARAG	IRAN
	SHAKIBA	IRAN
	TOORSEAL	IRAN
	VARZIRAN	IRAN
	ZARFAM POLYMER	IRAN
	ZARRIN FAM	IRAN
	ALTA	ITALY
	JOTUN PROTECTS PROPE	NORWAY
	LONG PRODUCT	UK
	POLYAIM	UK
	SERVIRAP	CANADA/UK
1.5.5- ELECTRODE & FILLER		
	AMA	IRAN
	ELECTROD YAZD	IRAN
	JOSHE & OXYGEN IRAN	IRAN
	SANAYE JOOSHKARI VA TOLIDE ELECTRODE (WIEM)	IRAN
	BOHLER	GERMANY
	ESSAB	SWEDEN
	LINCOLN/METRODE	UK
	OERLIKON	FRANCE
	SELECTARC	FRANCE
	WELDING ALLOY	UK
1.5.6- NON-METALIC EQUIPMENT/BULK MATERIAL		
1.5.6.1- DRUM		
	FARAPOX SHIRAZ	IRAN
1.5.6.2- PIPE		
	AB HAYATE KERMAN (POLYMER)	IRAN
	ARAS KAROON ALBORZ	IRAN
	ARIAN SADEH (HB COMPOSITE)	IRAN
	BASPAR SANAT PAZHOOH (BSP)	IRAN
	FARASSAN (GRP / FRP)	IRAN
	GAS LOOLEH (POLYMER)	IRAN
	GOSTARESH PLASTIC (POLY ETHYLENE)	IRAN
	MASHHAD SADRA (GRP / FRP)	IRAN
	MOEIN KHAMRASHAHR	IRAN
	PARS ETHYLENE KISH	IRAN
	P E S(POLYETHYLENE)	IRAN
	POLICA NOVIN(PVC PIPE)	IRAN
	SANAYE POLYMER KERMAN (POLYMER)	IRAN
	SUPER PIPE (POLYMER)	IRAN

1.5.6.3- FITTING	COMPANY NAME	ORIGIN
	AB HAYATE KERMAN (POLYMER)	IRAN
	ARIAN SADEH (HB COMPOSITE)	IRAN
	BASPAR SANAT PAZHOOH (BSP)	IRAN
	FARAPOX SHIRAZ	IRAN
	GAS LOOLEH (POLYMER)	IRAN
	MASHHAD SADRA (GRP / FRP)	IRAN
	MOEIN KHORAMSHAHR	IRAN
	PARS ETHYLENE KISH	IRAN
	SANAYE POLYMER KERMAN (POLYMER)	IRAN
	TAKAB ETTESAL DAMAVAND(POLYETHYLENE)	IRAN
	SUPER PIPE (POLYMER)	IRAN

1.5.6.4- VALVE

WILL BE ADVISED LATER

1.5.7- STEEL PLATES

FOOLAD MOBARAKEH	IRAN
FOOLAD OXIN	IRAN
DILLINGER	GERMANY
DKC	S.KOREA
VOESTALPINE	AUSTRIA
WUYANG	SOUTH KOREA

1.5.8- TUBE FOR HEAT EXCHANGER

LOOLEHAYE DAGHIGH KAVEH	IRAN
NAVARD VA LOOLEH PROFILE SEPAHAN	IRAN
BENTLER	GERMANY
INGEMASA	BRAZIL
TUBOS REUNDOS	SPAIN

1.5.9- HEAD OF VESSEL

KARA SAZEH KIMIA	IRAN
MAPNA BOILER & EQUIPMENT ENGINEERING & MANUFACTURING	IRAN
PARS TECHNIC	IRAN
POULAD SAZAN FARAYAND CO.	IRAN
DILLINGER	GERMANY

1.5.10- RUBBER PARTS

BASHIR COMPLEX (SA IRAN)	IRAN
SANAYEE LASTIKI ZARRIN GAM	IRAN

* Note : These products approved for 1 year only. After that must be consider again.



2- ELECTRICAL

2. ELECTRICAL

2.ELECTRICAL

2.1- POWER TRANSFORMER

2.2- STATIC CONVERTOR

2.2.1- AC UPS

2.2.2- DC UPS (BATTERY CHARGER)

2.2.3- VARIABLE SPEED DRIVE / SOFT STARTER

2.3- BATTERY

2.3.1- LEAD ACID BATTERY

2.3.2- NICKEL CADMIUM BATTERY

2.4- SWITCH GEAR

2.4.1- L.V. SWITCH GEAR / MCC

2.4.2- M.V. SWITCH GEAR (GIS)

2.4.3- M.V. SWITCH GEAR (AIS + VCB)

2.4.4- H.V. SWITCH GEAR (GIS)

2.4.5- LOCAL DISTRIBUTION PANEL (INDUSTRIAL)

2.4.6- LOCAL DISTRIBUTION PANEL (EXPLOSION PROOF)

2.4.7- CAPACITOR BANK PANEL

2.4.8- PROTECTION & CONTROL PANEL

2.5- LIGHTING

2.5.1- INDUSTRIAL LIGHTING

2.5.2- EXPLOSION PROOF LIGHTING

2.5.3- STREET LIGHTING

2.5.4- LIGHTING POLE / ARM / TOWER

2.5.5- AIRCRAFT WARNING LIGHT

2.5.6- LED LIGHTING FIXTURE - NON INDUSTRIAL TYPE

2.6 - LOCAL CONTROL STATION

2.6.1- INDUSTRIAL CONTROL STATION

2.6.2- EXPLOSION PROOF CONTROL STATION

2.7- CABLE TRAY / LADDER & ACCESSORIES

2.7.1- METAL CABLE TRAY / CABLE LADDER & ACCESSORIES

2.7.2- GRP CABLE TRAY / CABLE LADDER & ACCESSORIES

2.8- INSTALLATION MATERIAL

2.8.1- CABLE GLAND

2.8.2- CONDUIT & FITTING

2.8.3- CABLE TERMINATION KIT & JOINT

2.8.4- PLUG & SOCKET (IND. / EXP. PROOF)

2.8.5- INDUSTRIAL JUNCTION & TERMINAL BOX

2.8.6- EXPLOSION PROOF J&T BOX

2.9- CABLE

- 2.9.1- LOW VOLTAGE / CONTROL CABLE
- 2.9.2- MEDIUM VOLTAGE CABLE
- 2.9.3- HIGH VOLTAGE CABLE
- 2.9.4- CABLE TERMINATION
- 2.9.5- CABLE JOINT
- 2.9.6- CABLE SHOE
- 2.9.7- CABLE CLAMP

2.10- CONTROL & INDICATION SYSTEM

- 2.10.1- ANNUNCIATION PANEL
- 2.10.2- INTERPOSING RELAY PANEL
- 2.10.3- POWER DISTRIBUTED CONTROL SYSTEM (PDCS) / POWER MANAGEMENT SYSTEM (PMS)

2.11- ELECTRICAL MOTOR

- 2.11.1- EXPLOSION PROOF L.V. ELECTRIC MOTOR
- 2.11.2- INDUSTRIAL L.V. ELECTRIC MOTOR
- 2.11.3- EXPLOSION PROOF M.V. ELECTRIC MOTOR
- 2.11.4- INDUSTRIAL M.V. ELECTRIC MOTOR

2.12- BUS DUCT

2.13- FIRE ALARM SYSTEM

2.14- ELECTRICAL HEAT TRACING

2.15- CATHODIC PROTECTION

- 2.15.1- CATHODIC PROTECTION SYSTEM
- 2.15.2- CATHODIC PROTECTION COMPONENT
 - 2.15.2.1- TRANSFORMER-RECTIFIER
 - 2.15.2.2- (IMPRESSED CURRENT ANODE (MMO/SILICON
 - 2.15.2.3- SACRIFICIAL ANODE
 - 2.15.2.4- REFERENCE ELECTRODE
 - 2.15.2.5- SPARK GAP
 - 2.15.2.6- CADWELD POWDER
 - 2.15.2.7- HANDY CAP
 - 2.15.2.8- CATHODIC PROTECTION REMOTE MONITORING & CONTROL SYSTEM
 - 2.15.2.9- FLANGE INSULATION KIT
 - 2.15.2.10- BOND BOX
 - 2.15.2.11- PERMANENT & PORTABLE HALF CELL
 - 2.15.2.12- COKE BREEZE

2.16- EARTHING & LIGHTNING

2.17- NEUTRAL GROUNDING RESISTOR

2.18- AC GENERATOR

- 2.18.1- TURBO GENERATOR
- 2.18.2- EMERGENCY GENERATOR
- 2.18.3- EMERGENCY DIESEL GENERATOR

2.19- MOBILE SUBSTATION

2.20- COMPONENTS

2.20.1 PROTECTION RELAY

2.20.2 AUXILIARY RELAY

2.20.3 CONTACTORS

2.20.4 AUXILIARY CONTACTOR

2.20.5 FUSE

2.20.6 SIGNAL LIGHT

2.20.7 CONTROL SWITCH

2.20.8 METERS

2.20.9 CIRCUIT BREAKER

2.20.9.1 LV CIRCUIT BREAKER

2.20.9.1.1 MINIATURE CB

2.20.9.1.2 MCCB

2.20.9.1.3 ACB

2.20.9.2 MV CIRCUIT BREAKER

2.20.9.2.1 VACUUM

2.20.9.2.2 SF6

2.20.10 TRANSDUCER

2.20.11 CT'S & PT'S

2.20.12 TERMINALS

2.20.13 SPACE HEATER

2.20.14 THERMOSTAT

2.20.15 LIGHTING LAMPS

2.20.15.1 INCANDESCENT LAMP

2.20.15.2 MERCURY VAPOR LAMP

2.20.15.3 SODIUM VAPOR LAMP

2.20.15.4 FLOURESCENT LAMP

2.20.16 TIMER

2.20.17 CAPACITORS

2.20.18 FAULT / EVENT RECORDER

2.20.19 EXPLOSION PROOF ELECTRONIC BALLAST

2.20.20 TEST BLOCK

2.21- ELECTRICAL HEATER FOR PROCESS EQUIPMENT

2.22- MEASUREMENT CENTER

2.1- <u>POWER TRANSFORMER</u>	COMPANY NAME	ORIGIN
	IRAN TRANSFO	IRAN
	ABB TRANSFO	FINLAND / GERMANY
	AREVA	FRANCE
	BRUSH TRANSFORMER	UK
	FUJI ELECTRIC CO	JAPAN
	IEO TRANSFORMATOREN	NETHERLANDS
	PAUWELS	BELGIUM
	SCHNEIDER GROUP	FRANCE
	SCHORCH	GERMANY
	SIEMENS	GERMANY
	TOSHIBA CORPORATION	JAPAN
	VA TECH ELIN	AUSTRIA

2.2- STATIC CONVERTOR

2.2.1- AC UPS

AMAK Kousha	IRAN
ARA TAJHIZ SYSTEM	IRAN
BEC AFZAR	IRAN
BORNA ELECTRONIC	IRAN
HAJIR SANAT**	IRAN
JAHAD DANESHGAHI ELM VA SANAT	IRAN
PARS ELTEK ENERGY	IRAN
PARS KAVIR ARVAND	IRAN
PORSOO ELECTRONIC ***	IRAN
POYEH ELECTRONIC *	IRAN
TAVAN POOYESH**	IRAN
TOLID MANABE TAGHZIYEH ELECTRONIC	IRAN
TRADIS *	IRAN
BENNING	GERMANY
BORRI S.P.A	ITALY
C.E.G Electronica Industriale S.p.A	ITALY
CHLORIDE INDUSTRIAL	FRANCE
GUTOR ELECTRONIC LTD	SWITZERLAND
SAFT POWER SYSTEM	FRANCE
SCHNEIDER GROUP	FRANCE
SIEMENS	GERMANY
SOCOMEK	FRANCE
WARTSILA JOVYATLAS EUROATLAS	GERMANY
* VENDORS FOR UPS UP TO 5KVA	
** VENDORS FOR UPS UP TO 10KVA	
*** VENDORS FOR UPS UP TO 20KVA	

2.2.2- DC UPS (BATTERY CHARGER)

AMAK Kousha	IRAN
ARA TAJHIZ SYSTEM	IRAN
BEC AFZAR	IRAN
BORNA ELECTRONIC	IRAN
JAHAD DANESHGAHI ELM VA SANAT	IRAN
PARS KAVIR ARVAND	IRAN
TALIRAN	IRAN
TAVAN POYESH	IRAN
TOLID MANABE TAGHZIYEH ELECTRONIC	IRAN
ALCAD	SWEDEN
BENNING	GERMANY
BORRI S.P.A	ITALY
C.E.G Electronica Industriale S.p.A	ITALY
CHLORIDE INDUSTRIAL	FRANCE
GUTOR ELECTRONIC LTD	SWITZERLAND
SAFT POWER SYSTEM	FRANCE

<u>COMPANY NAME</u>	<u>ORIGIN</u>
SCHNEIDER GROUP	FRANCE
SIEMENS	GERMANY
SOCOMECH	FRANCE
TOSHIBA CORPORATION	JAPAN
WARTSILA JOVYATLAS EUROATLAS	GERMANY

2.2.3- VARIABLE SPEED DRIVE / SOFT STARTER

BORNA ELECTRONIC	IRAN
MICROCONTROL	IRAN
ABB GROUP	GERMANY
ANSALDO SISTEMI INDUSTRIALI	ITALY
BARGH & ELECTRONIC PARTO SANAT	IRAN
CG EMOTRON	SWEDEN
ELETTRONICA SANTERNO S.P.A	ITALY
HYUNDAI ELECTRIC & ENERGY SYSTEMS CO., LTD	SOUTH KOREA
LENZE	GERMANY
mitsubishi	JAPAN
MOCOTECH GmbH	GERMANY
OMRON	JAPAN
SCHNEIDER GROUP	FRANCE
SIEMENS	GERMANY
VACON	FINLAND

2.3- BATTERY

2.3.1- LEAD ACID BATTERY

NIRO	IRAN
PLATIN IRAN (NIL)	IRAN
ALCAD	SWEDEN
HOPPECKE	GERMANY
SAFT	FRANCE/ SWEDEN
VARTA	GERMANY / FRANCE
YUASA	JAPAN

2.3.2- NICKEL CADMIUM BATTERY

ALCAD	SWEDEN
GAZ	GERMANY
HOPPECKE	GERMANY
SAFT	SWEDEN
VARTA	GERMANY / FRANCE

2.4- SWITCH GEAR

2.4.1- L.V. SWITCH GEAR / MCC

ADAK BEHIN NIROO	IRAN
ARIA SANAT ERAM	IRAN
ARUN ENERGY	IRAN
CYBER SANAAT (CUBIC)	IRAN
ELECTRO KAVIR	IRAN
HAMGAM ENERGY SABA (HESCO)	IRAN
IRAN SEABOK	IRAN
IRAN SWITCH	IRAN
IRAN TABLO	IRAN
JABON	IRAN
KERMAN TABLO	IRAN
LAVAN TABLO	IRAN
NEKA NOVIN	IRAN

<u>COMPANY NAME</u>	<u>ORIGIN</u>
PARS TABLO	IRAN
PARS SANAT PARAND	IRAN
RASEL TABLO	IRAN
PERSIAN TAJHIZ NIROO	IRAN
SATHA	IRAN
TAKSAZ TABLO	IRAN
TALIRAN	IRAN
TAMIN TABLO	IRAN
TOLIDE MALZOOMATE BARGH (TMB)	IRAN

2.4.2- M.V. SWITCH GEAR (GIS)

ABB GROUP	GERMANY
GE	WEST EUROPE
HOLEC	WEST EUROPE
SCHNEIDER GROUP	FRANCE
SIEMENS	GERMANY
VA TECH ELIN	NETHERLANDS

2.4.3- M.V. SWITCH GEAR (AIS + VCB)

ADAK BEHIN NIROO	IRAN
ARIA SANAT ERAM	IRAN
ARUN ENERGY	IRAN
AZAR FONON TABLO	IRAN
ELECTRO KAVIR	IRAN
IRAN SEABOK	IRAN
IRAN SWITCH	IRAN
IRAN TABLOUE	IRAN
JABON	IRAN
KERMAN TABLO	IRAN
MAZHAR NOOR	IRAN
NEKA NOVIN	IRAN
PARS SANAT PARAND	IRAN
PARS TABLOUE	IRAN
RASEL TABLO	IRAN
PERSIAN TAJHIZ NIROO	IRAN
SANE SHARGH	IRAN
TAKSAZ TABLO	IRAN
TALIRAN	IRAN
TAMIN TABLO	IRAN
TOLIDE MALZOOMATE BARGH (TMB)	IRAN
YAM	IRAN

2.4.4- H.V. SWITCH GEAR (GIS)

ELECTROKAVIR / SIEMENS	IRAN / GERMANY
ABB GROUP	GERMANY
ALSTOM	FRANCE
HITACHI	JAPAN
MITSUBISHI	JAPAN
SCHNEIDER GROUP	FRANCE
SIEMENS	GERMANY
VA TECH ELIN	NETHERLANDS

<i>COMPANY NAME</i>	<i>ORIGIN</i>
2.4.5- LOCAL DISTRIBUTION PANEL (INDUSTRIAL)	
ADAK BEHIN NIROO	IRAN
ARIA SANAT ERAM	IRAN
ASHTIAN TABLO	IRAN
AZAR FONoon TABLOUE	IRAN
ARUN ENERGY	IRAN
CYBER SANAAT (CUBIC)	IRAN
DAYHEEM	IRAN
ELECTRO KAVIR / LENA YAZD	IRAN
FARAMIN TABLOUE	IRAN
IRAN SEABOK	IRAN
IRAN SWITCH	IRAN
IRAN TABLOUE	IRAN
ISTA NOAVARAN NIROO	IRAN
JABON	IRAN
KERMAN TABLOUE	IRAN
LAVAN TABLO	IRAN
LENA YAZD	IRAN
NEKA NOVIN	IRAN
NOAVARAN BARQ ARIA	IRAN
PANJTASH	IRAN
PARS TABLOUE	IRAN
PARS SANAT PARAND	IRAN
PERSIAN TAJHIZ NIROO	IRAN
RASAN	IRAN
SANE SHARGH	IRAN
SATHA	IRAN
TAKSAZ TABLO	IRAN
TALIRAN	IRAN
TAMIN TABLOUE	IRAN
TOLIDE MALZOOMAT BARGH (TMB)	IRAN
TOLIDI & MOHANDESI NOAVARAN TAJHIZAT IMEN BARGH(NATIB)	IRAN
YAM	IRAN
ROSE SYSTEMTECHNIK GmbH	GERMANY

2.4.6- LOCAL DISTRIBUTION PANEL (EXPLOSION PROOF)	
DARIAN	IRAN
DAYHEEM	IRAN
MASHIN SAZI SHOMAL PIROOZ	IRAN
NOOR MEHVAR FARS	IRAN
COELBO	ITALY
CORTEM	ITALY
CO.SI.ME	ITALY
FEAM	ITALY
LEGRAND	FRANCE
ROSE SYSTEMTECHNIK GmbH	GERMANY
SCHUCH	GERMANY
STAHL	GERMANY
WALSALL	UK

2.4.7- CAPACITOR BANK PANEL	
ARUN ENERGY	IRAN
FARAKOH*	IRAN
HAMGAM ENERGY SABA (HESCO)	IRAN
MAZHAR NOOR	IRAN
NOAVARAN BARQ ARIA	IRAN
PALAYESH NIROO	IRAN
SANE SHARGH	IRAN
TAKSAZ TABLO	IRAN
TOLIDE MALZOOMAT BARGH (TMB)	IRAN

* Only LV

ALSO SEE 2.4.1 VENDORS

<u>COMPANY NAME</u>	<u>ORIGIN</u>
2.4.8- PROTECTION & CONTROL PANEL	
ADAK BEHIN NIROO	IRAN
ARIA SANAT ERAM	IRAN
HAMGAM ENERGY SABA (HESCO)	IRAN
ISTA NOAVARAN NIROO	IRAN
LAVAN TABLO	IRAN
TALIRAN	IRAN

2.5- LIGHTING

2.5.1- INDUSTRIAL LIGHTING	
JAHAN NOOR	IRAN
JAR	IRAN
MAZI NOOR	IRAN
NOORSA GOSTAR NOVIN	IRAN
NOOR KAR (GOLNOOR)	IRAN
SANAYE ROSHANAEE FAJR	IRAN
SANYE ROSHANAEE ARM	IRAN
TOLIDI & MOHANDESI NOAVARAN TAJHIZAT IMEN BARGH(NATIB)	IRAN
SPINA GROUP (ATEX SRL)	ITALY
WALSALL	UK

2.5.2- EXPLOSION PROOF LIGHTING	
DARIAN	IRAN
IRANIAN WAROM GROUP	IRAN
GOLNOOR	IRAN
JAHAN NOOR / GLAMOX	IRAN (NORWAY)
MAZI NOOR (SCHUCH)	IRAN (GERMANY)
MASHIN SAZI SHOMAL PIROOZ	IRAN
NOOR MEHVAR FARS	IRAN
COELBO	ITALY
CORTEM	ITALY
CO.SI.ME	ITALY
FEAM	ITALY
LEGRAND	FRANCE
NUOVA ASP s.r.l	ITALY
SPINA GROUP (ATEX SRL)	ITALY
STAHL	GERMANY
THORN LIGHTING	WEST EUROPE

2.5.3- STREET LIGHTING	
GOLNOOR	IRAN
JAHAN NOOR	IRAN
JAR	IRAN
MAZINOOR	IRAN
NOORSA GOSTAR NOVIN	IRAN
SANAYE ROSHANAEE FAJR	IRAN
SANYE ROSHANAEE ARM	IRAN
SHAYAN BARGH INDUSTRIAL GROUP	IRAN
TOLIDI & MOHANDESI NOAVARAN TAJHIZAT IMEN BARGH(NATIB)	IRAN

COMPANY NAME

ORIGIN

2.5-4- LIGHTING POLE / ARM / TOWER

EHDAS GOSTAR NIROOYE PARS	IRAN
JAR	IRAN
MASHIN SAZI SHOMAL PIROOZ (Only Lighting Arm)	IRAN
MAZINOOR	IRAN
NIK NOOR	IRAN
NOOR KAR (GOLNOOR)	IRAN
NOORSA GOSTAR NOVIN	IRAN
PARS AKHGAR	IRAN
SANYE ROSHANAEE ARM	IRAN
SHAYAN BARGH INDUSTRIAL GROUP	IRAN
TOLIDE MALZOOMAT BARGH	IRAN

2.5-5- AIRCRAFT WARNING LIGHT

MASHIN SAZI SHOMAL PIROOZ	IRAN
GLAMOX	NORWAY
NUOVA ASP s.r.l	ITALY
ORGA B.V.	NETHERLANDS
SIEMENS	GERMANY
THALES	FRANCE

2.5-6- LED LIGHTING FIXTURE - NON INDUSTRIAL TYPE

GOLNOOR	IRAN
SHAYAN BARGH INDUSTRIAL GROUP	IRAN

2.6 - LOCAL CONTROL STATION

2.6.1- INDUSTRIAL CONTROL STATION

DARIAN	IRAN
DAYHEEM	IRAN
MASHIN SAZI SHOMAL PIROOZ	IRAN
NOOR MEHVAR FARS	IRAN
TOLIDI & MOHANDESI NOAVARAN TAJHIZAT IMEN BARGH(NATIB)	IRAN
CORTEM	ITALY
FEAM	ITALY
ITALSMEA	ITALY
LEGRAND	FRANCE
ROSE SYSTEMTECHNIK GmbH	GERMANY
SCAME PARRE	ITALY
STAHL	GERMANY

2.6.2- EXPLOSION PROOF CONTROL STATION

DARIAN	IRAN
DAYHEEM	IRAN
MASHIN SAZI SHOMAL PIROOZ	IRAN
NOOR MEHVAR FARS	IRAN
TOLIDI & MOHANDESI NOAVARAN TAJHIZAT IMEN BARGH(NATIB)	IRAN
COELBO	ITALY
CO.SI.ME	ITALY
CORTEM	ITALY
FEAM	ITALY
ITALSMEA	ITALY
LEGRAND	FRANCE
ROSE SYSTEMTECHNIK GmbH	GERMANY
SCAME PARRE	ITALY
STAHL	GERMANY
WALSALL	UK

COMPANY NAME

ORIGIN

2.7- CABLE TRAY/LADDER & ACCESSORIES

2.7.1- METAL CABLE TRAY/CABLE LADDER & ACCESSORIES

ADER TAVAN NAMI	IRAN
AJNEH	IRAN
ALAMAFROZE	IRAN
ARAN SHAHAB	IRAN
FARAMIN TABLOUE	IRAN
MASHIN SAZI SHOMAL PIROOZ	IRAN
MAZHAR NOOR	IRAN
NEKA NOVIN	IRAN
PAJOHAN SANAT PARS	IRAN
PANJTASH	IRAN
PARS AKHGAR	IRAN
POUSHESH MONAVAR GOSTAR	IRAN
SATHA	IRAN
TALIRAN	IRAN
TAVAN AFROOZ VINEH ENG.CO.	IRAN
TOSEH SANAYE PETRO FOOLADE GHARB	IRAN
VANASHID	IRAN

2.7.2- GRP CABLE TRAY/CABLE LADDER & ACCESSORIES

WILL BE ADVISED LATER

2.8- INSTALLATION MATERIAL

2.8.1- CABLE GALND

IRANIAN WAROM GROUP	IRAN
MASHIN SAZI SHOMAL PIROOZ	IRAN
NOOR MEHVAR FARS	IRAN
TOLIDI & MOHANDESI NOAVARAN TAJHIZAT IMEN BARGH(NATIB)	IRAN
COELBO	ITALY
COPER CROUSE-HINDS (CEAG)	GERMANY
CORTEM	ITALY
HAWKE	UK
NUOVA ASP s.r.l	ITALY
OSCG Co.	SOUTH KOREA
SPINA GROUP (ATEX SRL)	ITALY
STAHL	GERMANY
TAVAN OMRAN SANAT E SAMANEH	IRAN
WALSALL	UK

2.8.2- CONDUIT & FITTING

LOOLEHAYE DAGHIGH KAVEH	IRAN
MASHIN SAZI SHOMAL PIROOZ (Only fitting)	IRAN
NOOR MEHVAR FARS	IRAN
PARS AKHGAR	IRAN
TAVAN OMRAN SANAT E SAMANEH	IRAN
TOLIDI & MOHANDESI NOAVARAN TAJHIZAT IMEN BARGH(NATIB)	IRAN
TOSE TANAYE IRAN	IRAN
TOSEH SANAYE PETRO FOOLADE GHARB	IRAN
PMA	SWITZERLAND

2.8.3- CABLE TERMINATION KIT & JOINT

CTL	UK
ILJIN ELECTRIC Co. Ltd	SOUTH KOREA
NEXAN	FRANCE
PFISTERER	GERMANY
RAYCHEM	GERMANY
RXS	FRANCE
SIEMENS	GERMANY
SUDKABEL	GERMANY

<i>COMPANY NAME</i>	<i>ORIGIN</i>
2.8.4- PLUG & SOCKET (IND. / EXP. PROOF)	
IRANIAN WAROM GROUP	IRAN
MASHIN SAZI SHOMAL PIROOZ	IRAN
NOOR MEHVAR FARS (Only for Industrial)	IRAN
CORTEM	ITALY
CO.SI.ME	ITALY
LEGRAND	FRANCE
NUOVA ASP s.r.l	ITALY
SCAME PARRE	ITALY
SCHUCH	GERMANY
STAHL	GERMANY
WALSALL	UK

2.8.5- INDUSTRIAL JUNCTION & TERMINAL BOX	
DAYHEEM	IRAN
GOLNOOR	IRAN
MASHIN SAZI SHOMAL PIROOZ	IRAN
NOOR MEHVAR FARS	IRAN
TOLIDI & MOHANDESI NOAVARAN TAJHIZAT IMEN BARGH(NATIB)	IRAN
CORTEM	ITALY
ITALSMEA	ITALY
LEGRAND	FRANCE
ROSE SYSTEMTECHNIK GmbH	GERMANY
SCAME PARRE	ITALY
SPINA GROUP (ATEX SRL)	ITALY
STAHL	GERMANY
WALSALL	UK

2.8.6- EXPLOSION PROOF JUNCTION & TERMINAL BOX	
DARIAN	IRAN
DAYHEEM	IRAN
IRANIAN WAROM GROUP	IRAN
MASHIN SAZI SHOMAL PIROOZ	IRAN
NOOR MEHVAR FARS	IRAN
TOLIDI & MOHANDESI NOAVARAN TAJHIZAT IMEN BARGH(NATIB)	IRAN
COELBO	ITALY
COPER CROUSE-HINDS (CEAG)	GERMANY
CORTEM	ITALY
CO.SI.ME	ITALY
FEAM	ITALY
ITALSMEA	ITALY
NUOVA ASP s.r.l	ITALY
ROSE SYSTEMTECHNIK GmbH	GERMANY
SCAME PARRE	ITALY
SPINA GROUP (ATEX SRL)	ITALY
STAHL	GERMANY
WALSALL	UK

2.9- CABLE

2.9.1- LOW VOLTAGE / CONTROL CABLE	
ARVIN ELECTRIC PARS (ABHAR SIMAND CABLE)	IRAN
IRAN CABLE MANUFACTURING COMPANY	IRAN
KABL SAZI TAK	IRAN
KABLE ALBORZ	IRAN
KABLE BAKHTAR	IRAN
KABLE KERMAN & KAVIAN	IRAN
KABLE MESSIN	IRAN
KHORASAN ELECTRIC INDUSTRIES	IRAN
KABLE METAL	IRAN
KABLE SHAHIN	IRAN
KERMAN ZAR CABLE	IRAN
OFOGHE ALBORZ	IRAN
RASANA CABLE	IRAN
SHAHABJAM	IRAN
SIMIA	IRAN
SIM VA KABLE ABHAR	IRAN
SIM VA KABLE MOGHAN	IRAN
SIM VA KABLE YAZD	IRAN
SIMBAF	IRAN
SIMCO	IRAN
SINA CABLE	IRAN
ZARSIM	IRAN

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
2.9.2- MEDIUM VOLTAGE CABLE		
	IRAN CABLE MANUFACTURING COMPANY	IRAN
	KABLE ALBORZ	IRAN
	KABLE KERMAN & KAVIAN	IRAN
	KABLE SHAHIN	IRAN
	METAL CABLE	IRAN
	OFOGHE ALBORZ	IRAN
	SIM VA KABLE ABHAR	IRAN
	SIM VA KABLE MOGHAN	IRAN
	SIM VA KABLE YAZD	IRAN
	SIMCO	IRAN
	SINA CABLE	IRAN
	FUJI ELECTRIC	JAPAN
	ILJIN ELECTRIC Co. Ltd	SOUTH KOREA
	LEONI Kerpen	GERMANY
	SIEMENS	GERMANY
2.9.3- HIGH VOLTAGE CABLE		
	IRAN CABLE MANUFACTURING COMPANY	IRAN
	SIM VA KABLE ABHAR	IRAN
	SIMCO	IRAN
	FUJI ELECTRIC	JAPAN
	ILJIN ELECTRIC Co. Ltd	SOUTH KOREA
	LEONI Kerpen	GERMANY
	PRYSMAIN CABLE & SYSTEM	ITALY
	SUDKABEL	GERMANY
	SIEMENS	GERMANY
2.9.4- CABLE TERMINATION		
	ELCON MEGARD / SHAHIN MAFSAL	IRAN
	CTL	UK
	ILJIN ELECTRIC Co. Ltd	SOUTH KOREA
	NEXAN	FRANCE
	PFISTERER	GERMANY
	RAYCHEM	GERMANY
	RXS	FRANCE
	SIEMENS	GERMANY
	SUDKABEL	GERMANY
2.9.5- CABLE JOINT		
	ELCON MEGARD / SHAHIN MAFSAL	IRAN
	CTL	UK
	ILJIN ELECTRIC Co. Ltd	SOUTH KOREA
	NEXAN	FRANCE
	PFISTERER	GERMANY
	RAYCHEM	GERMANY
	RXS	FRANCE
	SIEMENS	GERMANY
	SUDKABEL	GERMANY
2.9.6- CABLE SHOE		
	SHAHIN MAFSAL	IRAN

	COMPANY NAME	ORIGIN
2.9.7- CABLE CLAMP		
	PETUNIA	IRAN
	SHAHIN MAFSAL	IRAN
2.10- CONTROL & INDICATION SYSTEM		
2.10.1- ANNUNCIATION PANEL		
	ELECTRO KAVIR	IRAN
	FARARAVESH	IRAN
	JABON	IRAN
	KERMAN TABLOUE	IRAN
	NEKA NOVIN	IRAN
	PARS SANAT PARAND	IRAN
	TAMIN TABLOUE	IRAN
	ABB GROUP	GERMANY
	SCHNEIDER GROUP	FRANCE
	SIEMENS	GERMANY
2.10.2- INTERPOSING RELAY PANEL		
	AZAR FONOON TABLOUE	IRAN
	ELECTRO KAVIR	IRAN
	IRAN SEABOK	IRAN
	IRAN SWITCH	IRAN
	IRAN TABLOUE	IRAN
	JABON	IRAN
	KERMAN TABLOUE	IRAN
	PARS TABLOUE	IRAN
	SATHA	IRAN
	TAMIN TABLOUE	IRAN
	TOLIDE MALZOOMATE BARGH	IRAN
2.10.3- POWER DISTRIBUTED CONTROL SYSTEM (PDCS) / POWER MANAGEMENT SYSTEM (PMS)		
	CONTROL & PARDAZESH HOOSHMAND	IRAN
	CONTRONIC	IRAN
	ENERGY KAVIR PAYA	IRAN
	GOROOH SANATI FARINEH	IRAN
	HAVAYAR CONTROL PISHRO(Only for Siemens brand)	IRAN
	NOVIN DANESH E AYANDEH	IRAN
	KERMAN TABLOUE	IRAN
	SIGMA GOSTAR ARIA	IRAN
	TALIRAN	IRAN
2.11- ELECTRICAL MOTOR		
2.11.1- EXPLOSION PROOF L.V. ELECTRIC MOTOR		
	GOROOH SANATI FAN GENERATOR	IRAN
	JEMCO	IRAN
	ROSHD SANAT NIROO	IRAN
	ABB GROUP	GERMANY
	ALSTOM	FRANCE
	CEMP	ITALY
	HELMKE ORBIS GMBH	GERMANY
	HYUNDAI ELECTRIC & ENERGY SYSTEMS CO., LTD	SOUTH KOREA
	HYOSUNG CORPORATION	SOUTH KOREA
	LEROY SOMER	FRANCE
	MARELY	ITALY
	SCHORCH	GERMANY
	SIEMENS	GERMANY
	TOSHIBA	JAPAN
	VEM MOTOR GmbH.	GERMANY
	WEG EQUIPAMENTOS ELETRICOS S.A.	BRAZIL

<i>COMPANY NAME</i>	<i>ORIGIN</i>
2.11.2- INDUSTRIAL L.V. ELECTRIC MOTOR	
ARIAN SANAT	IRAN
GOROOH SANATI FAN GENERATOR	IRAN
JEMCO	IRAN
MOTOGEN	IRAN
ROSHD SANAT NIROO	IRAN
SHIRAZ SPECIAL ZONE ELECTRO MOTOR (VEM PARS)	IRAN
TURBO GENERATOR	IRAN
ABB GROUP	GERMANY
ALSTOM	FRANCE
BROOK CROMPTON	UK
CEMP	ITALY
FLENDER	GERMANY
HELMKE ORBIS GMBH	GERMANY
HYUNDAI ELECTRIC & ENERGY SYSTEMS CO., LTD	SOUTH KOREA
HYOSUNG CORPORATION	SOUTH KOREA
LEROY SOMER	FRANCE
MARELY	ITALY
SCHORCH	GERMANY
SIEMENS	GERMANY
TOSHIBA	JAPAN
VEM MOTOR Gmbh.	GERMANY
WEG EQUIPAMENTOS ELETRICOS S.A.	BRAZIL

2.11.3- EXPLOSION PROOF M.V. ELECTRIC MOTOR	
GOROOH SANATI FAN GENERATOR	IRAN
JEMCO (LOHER)	IRAN (GERMANY)
ROSHD SANAT NIROO	IRAN
ABB GROUP	GERMANY
ANSALDO SISTEMI INDUSTRIALI	ITALY
BRUSH	UK
FUJI	JAPAN
HELMKE ORBIS GMBH	GERMANY
HYUNDAI ELECTRIC & ENERGY SYSTEMS CO., LTD	SOUTH KOREA
HYOSUNG CORPORATION	SOUTH KOREA
JEUMONT ELECTRIC	FRANCE
SCHNEIDER GROUP	FRANCE
SCHORCH	GERMANY
SIEMENS	GERMANY
TECO WESTINGHOUSE	USA / TAIWAN
TOSHIBA	JAPAN
VEM MOTOR Gmbh.	GERMANY
WEG EQUIPAMENTOS ELETRICOS S.A.	BRAZIL

2.11.4- INDUSTRIAL M.V. ELECTRIC MOTOR	
GOROOH SANATI FAN GENERATOR	IRAN
JEMCO (LOHER)	IRAN (GERMANY)
ROSHD SANAT NIROO	IRAN
ABB GROUP	GERMANY
ANSALDO SISTEMI INDUSTRIALI	ITALY
BRUSH	UK
FUJI	JAPAN
HELMKE ORBIS GMBH	GERMANY
HYUNDAI ELECTRIC & ENERGY SYSTEMS CO., LTD	SOUTH KOREA
HYOSUNG CORPORATION	SOUTH KOREA
JEUMONT ELECTRIC	FRANCE
SCHNEIDER GROUP	GERMANY
SCHORCH	GERMANY
TECO WESTINGHOUSE	USA / TAIWAN
TOSHIBA	JAPAN
VEM MOTOR Gmbh.	GERMANY
WEG EQUIPAMENTOS ELETRICOS S.A.	BRAZIL

	COMPANY NAME	ORIGIN
2.12- BUS DUCT		
	GITAL	IRAN
	LENA YAZD (ONLY LV BUS DUCT)	IRAN
	BBI	ITALY
	BETA BARDUCT	UK
	BKS	SWITZERLAND
	GRAZIADIO	ITALY
	EDMUNDSON	UK
	FUJI ELECTRIC	JAPAN
	HITACHI CABLE	JAPAN
	LS CABLE & SYSTEM LTD	SOUTH KOREA
	MARELY	ITALY
	SCHNEIDER GROUP	FRANCE
	SIMELECTRO	FRANCE
	TEFELEN	GERMANY
	ZUCCHINI	ITALY
2.13- FIRE ALARM SYSTEM		
	NOVIN DANESH E AYANDEH	IRAN
	PARS HASSAS	IRAN
	ABB GROUP	GERMANY
	CERBERUS	SWITZERLAND
	DETECTOMAT	GERMANY
	SILVANI	ITALY
	GEC	UK
	HOCHIKI	JAPAN
	PHOTAIN CONTROL PLC	UK
	SAFETEC	ITALY
	SANCO Fire Protection and Safety Technology	ITALY
	SIEMENS	GERMANY
	SILVERTEC	UK
	THORN	UK
2.14- ELECTRICAL HEAT TRACING		
	BARTEC	GERMANY
	DEVI A/S	DENMARK
	ELTHERM	GERMANY
	F.A.T.I. S.R.L	ITALY
	FINE KOREA CO., LTD	SOUTH KOREA
	HEAT TRACE Ltd.	UK
	KLOPPER - THERM GmbH	GERMANY
	RAYCHEM	GERMANY
	SIGMA CONTROL	GERMANY
	THERMON	UK
2.15- CATHODIC PROTECTION		
2.15.1 CATHODIC PROTECTION SYSTEM		
	ARMIN SANAT GOSTARAN	IRAN
	BORNA ELECTRONICS	IRAN
	FANAVARI DANESH KHORDEGI	IRAN
	FARA SANAT BAN	IRAN
	JAHADE DANESHGAHI ELM VA SANAT	IRAN
	MOHANDESI MOSHAVER BINA	IRAN
	PAYESH SANAT NOVIN	IRAN
	PETUNIA	IRAN
	REFERENCE IRAN	IRAN
	TECHINCO	IRAN
	ZANG SETIZANE SHARGH	IRAN
	CATHODIC PROTECTION CO (CPC)	UK
	CORROCELL CO	UK
	CORRPRO	UK
	CORR OCEAN	NORWAY
	CORROSION TECHNOLOGY SERVICES EUROPE Ltd. (CTS)	UK
	ROSE CORROSION SERVICES	UK
	WILSON WALTON	UK

2.15.2- CHTADOIC PROTECTION COMPONENT

2.15.2.1 TRANSFORMER-RECTIFIER

<u>COMPANY NAME</u>	<u>ORIGIN</u>
ARMIN SANAT GOSTARAN	IRAN
BORNA ELECTRONIC	IRAN
JAHAD DANESHGAHI ELM VA SANAT	IRAN
PAYESH SANAAT NOVIN	IRAN
PETUNIA	IRAN
POOYESH NIROO	IRAN
REFERENCE IRAN	IRAN
BAC	UK
CORROCO	UK
CATHODIC PROTECTION CO (CPC)	UK
CATH-TECH	CANADA
HELLAS	THE NETHERLANDS
WILSON WALTON	UK

2.15.2.2 IMPRESSED CURRENT ANODE(MMO/SILICON)

BORNA GODAZ	IRAN
PETUNIA	IRAN
REFERENCE IRAN	IRAN
BAC GROUP	UK
CORROCO	UK
CORRPRO	UK
CATHODIC PROTECTION CO (CPC)	UK
GCP	GERMANY
HITECH	UK
MAGNETO	NETHERLANDS
PML	CANADA
TELPRO	UK

2.15.2.3 SACRIFICIAL ANODE (MG/AL/ZN)

ARMIN SANAT GOSTARAN	IRAN
BORNA GODAZ	IRAN
REFERENCE IRAN	IRAN

2.15.2.4 REFERENCE ELECTRODE

ARMIN SANAT GOSTARAN	IRAN
BORNA GODAZ	IRAN
REFERENCE IRAN	IRAN
CORRPRO	UK

2.15.2.5 SPARK GAP

CORROCO	UK
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2.15.2.6 CADWELD POWDER

PETUNIA	IRAN
ERICO	THE NETHERLANDS

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
2.15.2.7 HANDY CAP		
	CELLPACK	GERMANY
	ERICO	THE NETHERLANDS
	ROYSTON	USA
2.15.2.8 CATHODIC PROTECTION REMOTE MONITORING AND CONTROL SYSTEM		
	PETUNIA	IRAN
	REFERENCE IRAN	IRAN
	GCP	GERMANY
	IMP	UK
	RESCO SYSTEM LTD	UK
2.15.2.9- FLANGE INSULATION KIT		
	PETUNIA	IRAN
	REFERENCE IRAN	IRAN
2.15.2.10- BOND BOX		
	BORNA GODAZ	IRAN
	PETUNIA	IRAN
2.15.2.11- PERMANENT & PORTABLE HALF CELL		
	BORNA GODAZ	IRAN
	PETUNIA	IRAN
2.15.2.12- COOK BREEZE		
	BORNA GODAZ	IRAN
	PETUNIA	IRAN
2.16- <u>EARTHING & LIGHTNING MATERIAL</u>		
	AMAD SANAT PISHTAZ	IRAN
	AMOJ FARAYAND	IRAN
	ESPAK	IRAN
	KAHANGAN MEHR	IRAN
	KAR PIRA KAVIR	IRAN
	MOBTAKERAN SANAT DANESH & ELM GOSTAR(Only RGB)	IRAN
	PARSIAN TARASH SANAT(PTS)	IRAN
	PAYA SYSTEM	IRAN
	PETUNIA	IRAN
	TAJHIZAT ENTEGHAL BARGH PARS(Only Low Voltage SPD and Spark Gap)	IRAN
	TAJHIZAT SYSTEM ZAMIN	IRAN
	ABB GROUP	GERMANY
	ALLTEC	USA
	FURSE	UK
	FRANCE PARATONNERRES	FRANCE
	INDELEC	FRANCE

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
2.17- <u>NEUTRAL GROUNDING RESISTOR</u>		
	BORNA ELECTRONIC	IRAN
	MEHR TAVAN GOSIL	IRAN
	PARRSUN	IRAN
	ABB GROUP	GERMANY
	ALSTOM	FRANCE
	FUJI ELECTRIC	JAPAN
	MITSUBISHI	JAPAN
	SIEMENS	GERMANY
	TOSHIBA	JAPAN
2.18- <u>AC GENERATOR</u>		
2.18.1- <u>TURBO GENERATOR</u>		
	ALSTOM	FRANCE
	ELIN	AUSTRIA
	HITACHI	JAPAN
	MITSUBISHI	JAPAN
	SIEMENS	GERMANY
	TOSHIBA	JAPAN
2.18.2- <u>EMERGENCY GENERATOR</u>		
	ABB GROUP	FRANCE
	ANSALDO SISTEMI INDUSTRIALI	ITALY
	LEROY SOMER	FRANCE
	SIEMENS	GERMANY
	TOSHIBA	JAPAN
2.18.3- <u>EMERGENCY DIESEL GENERATOR</u>		
	MOHANDESIN RAAD	IRAN
	SAZAND	IRAN
	ASCOT INDUSTRIAL S.R.L	ITALY
2.19- <u>MOBILE SUBSTATION</u>		
	IRAN TRANSFO	IRAN
	FULMEN	IRAN
	KERMAN TABLOUE	IRAN
	SANE SHARGH	IRAN
	TRANS POST PARS	IRAN
	ABB GROUP	GERMANY
	SIEMENS	GERMANY

2.20- COMPONENTS

2.20.1- PROTECTION RELAY

COMPANY NAME	ORIGIN
ABB GROUP	GERMANY
ALSTOM	FRANCE
GE	USA/UK
ICE	FRANCE
MICROELETTRICA SCIENTIFICA	ITALY
OMRON	JAPAN
SCHNIEDER ELECTRIC	FRANCE
SIEMENS	GERMANY
SCHTUK ELEKTRONIK	GERMANY

2.20.2- AUXILIARY RELAY

AEG	GERMANY
ARTECHE	SPAIN
FINDER	UK
GE	USA/UK
LEGRAND	FRANCE
OMRON	JAPAN
PHOENIX	GERMANY
SCHNIEDER ELECTRIC	FRANCE
SIEMENS	GERMANY
THYTRONIC	ITALY
WEIDMULLER	GERMANY

2.20.3- CONTACTORS

ABB GROUP	GERMANY
AEG	GERMANY
FUJI	JAPAN
GE	USA/UK
HYUNDAI ELECTRIC & ENERGY SYSTEMS CO., LTD	SOUTH KOREA
MOELLER	GERMANY
SCHNIEDER ELECTRIC	FRANCE
SIEMENS	GERMANY

2.20.4- AUXILIARY CONTACTORS

AEG	GERMANY
FINDER	UK
GE	USA/UK
OMRON	JAPAN
PHOENIX	GERMANY
SCHNIEDER ELECTRIC	FRANCE
SIEMENS	GERMANY
THYTRONIC	ITALY

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
2.20.5- <i>FUSE</i>		
	RAAD	IRAN
	ABB GROUP	GERMANY
	AEG	GERMANY
	ALSTOM	FRANCE
	BUSSMAN	GERMANY
	FERRAZ	FRANCE
	GOLD	GERMANY
	JUAN MOELLER	GERMANY
	LEGRAND	FRANCE
	SIBA	GERMANY
	SIEMENS	GERMANY
	SOCOMEK	FRANCE
2.20.6- <i>SIGNAL LIGHT</i>		
	RAAD	IRAN
	ABB GROUP	GERMANY
	ELFIN	ITALY
	GE	USA/UK
	SCHNIEDER ELECTRIC	FRANCE
	SIEMENS	GERMANY
2.20.7- <i>CONTROL SWITCH</i>		
	ELECTRO KAVEH	IRAN
	RAAD	IRAN
	SANAT NOVIN ROYAN	IRAN
	CEAG	GERMANY
	GE	USA/UK
	K&N	ITALY
	MOELLER	GERMANY
	SCHNIEDER ELECTRIC	FRANCE
	SIEMENS	GERMANY
2.20.8- <i>METERS</i>		
	FASE	ITALY
	FERRER	ITALY
	ISKAVA	JAPAN
	IME	ITALY
	MITSUBISHI	JAPAN
	SIEMENS	GERMANY

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
2.20.9- CIRCUIT BREAKER		
2.20.9.1- LV CIRCUIT BREAKER		
2.20.9.1.1- MINIATURE CB		
	RAAD	IRAN
	ABB GROUP	GERMANY
	AEG	GERMANY
	GE	UK
	LEGRAND	FRANCE
	mitsubishi	JAPAN
	MOELLER	GERMANY
	SCHNIEDER ELECTRIC	FRANCE
	SIEMENS	GERMANY
	UNELEC	FRANCE
2.20.9.1.2- MCCB		
	TEHRAN PADENA	IRAN
	ABB GROUP	GERMANY
	AEG	GERMANY
	FUJI	JAPAN
	GE	UK
	HYUNDAI ELECTRIC & ENERGY SYSTEMS CO., LTD	SOUTH KOREA
	mitsubishi	JAPAN
	SCHNIEDER ELECTRIC	FRANCE
	SIEMENS	GERMANY
	UNELEC	FRANCE
2.20.9.1.3- ACB		
	TEHRAN PADENA	IRAN
	ABB GROUP	GERMANY
	AEG	GERMANY
	FUJI	JAPAN
	GE	UK
	HYUNDAI ELECTRIC & ENERGY SYSTEMS CO., LTD	SOUTH KOREA
	SCHNIEDER ELECTRIC	FRANCE
	SIEMENS	GERMANY

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
<i>2.20.9.2- MV CIRCUIT BREAKER</i>		
<i>2.20.9.2.1- VACUUM</i>		
	ABB GROUP	GERMANY
	AEG	GERMANY
	FUJI	JAPAN
	GE	UK
	HYUNDAI ELECTRIC & ENERGY SYSTEMS CO., LTD	SOUTH KOREA
	SCHNIEDER ELECTRIC	FRANCE
	SIEMENS	GERMANY
<i>2.20.9.2.2- SF6</i>		
	ABB GROUP	GERMANY
	AEG	GERMANY
	ALSTOM	FRANCE
	GE	UK
	SCHNIEDER ELECTRIC	FRANCE
	SIEMENS	GERMANY
<i>2.20.10- TRANSDUCER</i>		
	FERRER	ITALY
	GEC	FRANCE
	IME	ITALY
<i>2.20.11- CT's & PT's</i>		
	ELECTRO PEJVAK ARIAN	IRAN
	MAG ELECTRIC	IRAN
	ABB GROUP	GERMANY
	ARTECHE	SPAIN
	FERRER	ITALY
	MITSUBISHI	JAPAN
	SCHNIEDER ELECTRIC	FRANCE
	SIEMENS	GERMANY
	THYTRONIC	ITALY
	WATTSUD	ITALY
<i>2.20.12- TERMINALS</i>		
	RAAD	IRAN
	RAD IRAN	IRAN
	CABUR	ITALY
	MITSUBISHI	JAPAN
	MOELLER	GERMANY
	PHOENIX	GERMANY
	SCHNIEDER ELECTRIC	FRANCE
	SIEMENS	GERMANY

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
2.20.13- SPACE HEATER		
	F.A.T.I. S.R.L	ITALY
	GE	UK
	MASTERWATT	ITALY
	RESISTENCIAS TOPE SA	SPAIN
	RITTAL	GERMANY
	SCHNIEDER ELECTRIC	FRANCE
	SIEMENS	GERMANY
	THYTRONIC	ITALY
2.20.14- THERMOSTAT		
	ATBIN	IRAN
	BARTEC	GERMANY
	KOBOLD	GERMANY
	RITTAL	GERMANY
	SAREL	ITALY
	SIEMENS	GERMANY
2.20.15- LIGHTING LAMPS		
2.20.15.1- INCANDESCENT LAMP		
	LAMP PARS SHAHAB	IRAN
	GE	UK
	OSRAM	GERMANY
	PHILIPS	NETHERLANDS
	TUNGSRAM	HUNGARY
2.20.15.2- MERCURY VAPOR LAMP		
	SHAHAB TOUSHE	IRAN
	GE	UK
	OSRAM	GERMANY
	PHILIPS	NETHERLANDS
2.20.15.3- SODIUM VAPOR LAMP		
	SHAHAB TOUSHE	IRAN
	OSRAM	GERMANY
	PHILIPS	NETHERLANDS
2.20.15.4- FLOURESCENT LAMP		
	LAMP PARS SHAHAB	IRAN
	SANAYE ELECTRONIC AFRA TAB	IRAN
	SHAHAB TOUSHE	IRAN
	OSRAM	GERMANY
	PHILIPS	NETHERLANDS

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
2.20.16- TIMER		
	ABB GROUP	GERMANY
	AEG	GERMANY
	DOLD	GERMANY
	OMRON	JAPAN
	SCHNIEDER ELECTRIC	FRANCE
	SIEMENS	GERMANY
2.20.17- CAPACITORS		
	FARAKOH*	IRAN
	PALAAYESH NIROO	IRAN
	* Only LV	
2.20.18 FAULT / EVENT RECORDER		
	PARDISSAN RAYANEH SYSTEM	IRAN
2.20.19- EXPLOSION PROOF ELECTRONIC BALLAST		
	TAVAN OMRAN SANAT E SAMANEH	IRAN
2.20.20- TEST BLOCK		
	ARTECHE	SPAIN
2.21- <u>ELECTRICAL HEATER FOR PROCESS EQUIPMENT</u>		
	BORNA ELECTRONICS	IRAN
	MABNA PISHEH	IRAN
	ELMESS - Thermosystemtechnik GmbH	GERMANY
	F.A.T.I. S.R.L	ITALY
	KLOPPER - THERM GmbH	GERMANY
	MASTERWATT	ITALY
	RESISTENCIAS TOPE SA	SPAIN
2.22- <u>MEASUREMENT CENTER</u>		
	BASET PAJOUH TEHRAN	IRAN
2.23- <u>TRANSMISSION LINE EQUIPMENT</u>		
2.23.1- <u>INSULATOR</u>		
2.23.1.1- <u>COMPOSITE INSULATOR</u>		
	TABAN NIROO SHIRAZ	IRAN



3- INSTRUMENTATION

3.INSTRUMENTATION

3.1- SYSTEM

- 3.1.1- DCS / FCS
- 3.1.2- DCS / FCS INTEGRATION
- 3.1.3- ADVANCED PROCESS CONTROL (APC)
- 3.1.4- OPERATOR TRAINING SIMULATE (OTS)
- 3.1.5- ESD SYSTEM
- 3.1.6- HIGH INTEGRATION PROTECTION SYSTEM (HIPS)
- 3.1.6.1- LINE BREAK VALVE (LBV)
- 3.1.7- BMS
- 3.1.8- BMS / ESD SYSTEM INTEGRATION
- 3.1.9- PLC
- 3.1.10- PLC INTEGRATION
- 3.1.11- TANK GAUGING SYSTEM (TGS)
- 3.1.12- CONTROL PANEL
- 3.1.13- MIMIC PANEL
- 3.1.14- CONTROLLER
- 3.1.15- SCADA / DATA LOGGER
- 3.1.16- SCADA / DATA LOGGER INTEGRATION
- 3.1.17- TELEMETERING REMOTE TERMINAL UNIT (RTU)
- 3.1.18- TELEMETERING RADIO
- 3.1.19- INDICATOR
- 3.1.20- RECORDER
- 3.1.21- ANNUNCIATION PANEL
- 3.1.22- MARSHALLING AND BARRIER CABINET
- 3.1.23- ISOLATING / BARRIER / REPEATER / AMPLIFIER
- 3.1.24- PERSONAL COMPUTER
- 3.1.25- PRINTER
- 3.1.26- VIBRATION MONITORING SYSTEM
- 3.1.27- CONDITION MONITORING SYSTEM
- 3.1.28- GOVERNOR / OVER SPEED PROTECTION
- 3.1.29- FLOW METERING STATION
- 3.1.30- FLOW METERING PROVER
- 3.1.31- LEAKAGE DETECTION SYSTEM
- 3.1.32- HUMAN MACHINE INTERFACE (HMI)

3.2- ON-LINE ANALYZER

- 3.2.1- GAS CHROMATOGRAPH
- 3.2.2- INFRARED ANALYZER
- 3.2.3- RAMAN ANALYZER
- 3.2.4- OXYGEN ANALYZER
- 3.2.5- OXYGEN ANALYZER (IN LIQUID)
- 3.2.6- H₂ ANALYZER
- 3.2.7- MOISTURE ANALYZER (IN GAS)
- 3.2.8- MOISTURE ANALYZER (IN LIQUID)
- 3.2.9- SULPHUR ANALYZER (H₂S, SO₂, TAIL GAS)
- 3.2.10- CHLORINE ANALYZER
- 3.2.11- SILICA ANALYZER
- 3.2.12- AMMONIA ANALYZER (IN WATER)
- 3.2.13- PH METER
- 3.2.14- CONDUCTIVITY METER
- 3.2.15- TURBIDITY / COLOR METER
- 3.2.16- ANALYZER INTEGRATION
- 3.2.17- DENSITY METER
- 3.2.18- TOTAL HYDRO CARBON
- 3.2.19- CH₄ ANALYZER
- 3.2.20- ALUMINUM ALKIL
- 3.2.21- SAMPLING SYSTEM

3.3- HSE EQUIPMENT

3.3.1- F & G SYSTEM

3.3.2- F & G SYSTEM INTEGRATION

3.3.3- GAS AND VAPOR DETECTOR

3.3.4- SMOKE DETECTOR

3.3.5- HEAT DETECTOR

3.3.6- FLAME DETECTOR

3.3.7- MANUAL CALL POINT

3.3.8- EMISSION MONITORING SYSTEM (EMS)

3.3.9- EMS INTEGRATION

3.4- FIELD DEVICE

3.4.1- DISPLACER TYPE LEVEL TRANSMITTER

3.4.2- CAPACITIVE TYPE LEVEL TRANSMITTER

3.4.3- RADIOACTIVE TYPE LEVEL TRANSMITTER

3.4.4- RADAR TYPE LEVEL TRANSMITTER

3.4.5- ULTRASONIC TYPE LEVEL TRANSMITTER

3.4.6- SERVO & FLOAT TYPE LEVEL TRANSMITTER

3.4.7- MAGNETIC LEVEL GAUGE

3.4.8- LEVEL GAUGE GLASS

3.4.9- LEVEL SWITCH (FLOAT & DISPLACER TYPE)

3.4.10- LEVEL SWITCH (TUNING FORK TYPE)

3.4.11- LEVEL SWITCH (CAPACITANCE TYPE)

3.4.12- LEVEL SWITCH (RADIOACTIVE TYPE)

3.4.13- CONTROL VALVE (GLOBE)

3.4.14- CONTROL VALVE (BALL)

3.4.15- CONTROL VALVE (BUTTERFLY)

3.4.16- CONTROL VALVE (ECCENTRIC PLUG)

3.4.17- CONTROL VALVE (ANGLE)

3.4.18- CONTROL VALVE (3 WAY)

3.4.19- CONTROL VALVE (NEEDLE VALVE)

3.4.20- DIAPHRAGM TYPE CONTROL VALVE

3.4.21- CONTROL VALVE POSITIONER

3.4.22- I/P, P/I & F/P CONVERTOR

3.4.23- MOTOR OPERATED VALVE

3.4.24- PRESSURE SELF REGULATING VALVE

3.4.25- TEMPERATURE SELF REGULATING VALVE

3.4.26- DESUPER HEATER

3.4.27- SAFETY VALVE

3.4.28- RUPTURE DISC

3.4.29- BREATHER VALVE

3.4.30- EMERGENCY VENT VALVE

3.4.31- DELUGE VALVE

3.4.32- ON/OFF VALVE (BALL)

3.4.33- ON/OFF VALVE (BUTTERFLY)

3.4.34- ON/OFF VALVE (ANGLE)

3.4.35- ON/OFF VALVE (GATE)

3.4.36- BOTTOM TANK VALVE

3.4.37- PNEUMATIC / HYDROLIC ACTUATOR

3.4.38- ELECTRICAL ACTUATOR

3.4.39- FILTER REGULATOR

3.4.40- SOLENOID VALVE

3.4.41- PROXIMITY SWITCH

3.4.42- PIG DETECTOR

3.4.43- VALVE LOCKING DEVICE

3.4.44- N2 BLANKETING SYSTEM

3.4.45- MASS FLOWMETER (CORIOLIS TYPE)

3.4.46- MASS FLOWMETER (THERMAL TYPE)

3.4.47- ULTRASONIC FLOWMETER

3.4.47.1- ULTRASONIC FLOWMETER (LIQUID)

3.4.47.2- ULTRASONIC FLOWMETER (GAS)

3.4.47.3- FLOW COMPUTER

- 3.4.48- MAGNETIC FLOWMETER
- 3.4.49- VORTEX FLOWMETER
- 3.4.50- POSITIVE DISPLACEMENT METER
- 3.4.51- TURBINE METER
- 3.4.52- ROTAMETER
- 3.4.53- BULK FLOWMETER
- 3.4.54- FLOW SWITCH
- 3.4.55- ORIFICE PLATE
- 3.4.56- VENTURI TUBE AND NOZZLE
- 3.4.57- ANNUBAR
- 3.4.58- PRESSURE & TEMPERATURE GAUGE
- 3.4.59- PRESS. & TEMP. SWITCH
- 3.4.60- PRESS. & DIFFERENTIAL PRESS. TRANSMITTER
- 3.4.61- T/C, RTD & WELLS
- 3.4.62- TEMPERATURE TRANSMITTER
- 3.4.63- FIELD INDICATOR
- 3.4.64- JUNCTION BOX
- 3.4.64.1- EX-JUNCTION BOX
- 3.4.64.2- INDUSTRIAL – JUNCTION BOX
- 3.4.65- CABLE GLAND
- 3.4.66- INSTRUMENT CABLE
- 3.4.67- CABLE TRAY / LADDER
- 3.4.68- INSTRUMENT VALVE
- 3.4.69- DECOKE & CRACKED GAS VALVE
- 3.4.70- INSTRUMENT TUBE & FITTING
- 3.4.71- SPECIAL VALVES
- 3.4.72- VIBRATION PROBE
- 3.4.73- CONTROL VALVE (AXIAL)
- 3.4.74- ON / OFF VALVE (AXIAL)

COMPANY NAME

ORIGIN

3.1- SYSTEM

3.1.1- DCS / FCS

AMVAJE ABI*

IRAN

FARINEH FANAVAR

IRAN

KERMAN TABLOUE

IRAN

MOHANDESI VA SAKHT BARGH VA CONTROL MAPNA (MECO)

IRAN

SUBTEK KISH*

IRAN

ABB

GERMANY

AZBIL CORPORATION

JAPAN

EMERSON

UK / FRANCE

HONEYWELL INTL

ITALY / FRANCE / BELGIUM

MTL

UK

SIEMENS

GERMANY

SMAR

BRAZIL

YOKOGAWA

JAPAN / W.EUROPE

* ONLY FOR A PERIOD OF TWO YEARS.

3.1.2- DCS / FCS INTEGRATION

ASIA CONTROL PEY

IRAN

AZAR DAGHIGH IRANIAN (ADICO)

IRAN

CONTROL & PARDAZESH HOOSHMAND

IRAN

CONTROL POOYAN

IRAN

CYBER SANAT

IRAN

ENERGY KAVIR PAYA

IRAN

FALCON

IRAN

FARANEGAR SANAT

IRAN

FARAYAND PARDAZ(Only DCS for non-process units and Only with Siemens brand)

IRAN

GOROOH SANATI FARINEH

IRAN

GOROOH SANATI PATSA

IRAN

IDEH GLOBAL KISH

IRAN

IROSCO CONTROL

IRAN

KERMAN TABLO

IRAN

KHADAMAT MOHANDESI SIMAN FARS VA KHUZESTAN

IRAN

MANABEH ENSANI VA MOHANDESI IRAS TARH

IRAN

MOHANDESI VA ABZAR DAGHIGH IDEH

IRAN

MOHANDESI VA SAKHT BARGH VA CONTROL MAPNA (MECO)

IRAN

NOVIN DANESH E AYANDEH

IRAN

PARS HASSAS

IRAN

PARS JAHID FANAVAR

IRAN

PETROFAN AVAR NIROU IRANIAN

IRAN

SIGMA GOSTAR ARIA

IRAN

3.1.3- ADVANCED PROCESS CONTROL (APC)

ASPENTECH

WEST EUROPE

AXENS

FRANCE

EMERSON

UK / FRANCE

HONEYWELL INTL

GERMANY

SHELL GLOBAL SOLUTION (SGS)

THE NETHERLANDS

YOKOGAWA

JAPAN / FRANCE

3.1.4- OPERATOR TRAINING SIMULATOR (OTS)

GOSTARESH FARAYANDE SHARIF

IRAN

ASPENTECH

W. EUROPE

AXENS

FRANCE

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
3.1.5- ESD SYSTEM		
	ABB	UK / GERMANY / W.EUROPE
	EMERSON	UK / FRANCE
	GEBHARDT AUTOMATION GMBH	GERMANY
	HIMA	GERMANY
	HONEYWELL FSC	BELGIUM
	ICS TRIPLEX	UK
	PILZ	GERMANY
	ROTORK	FRANCE
	SAFETEC	ITALY
	SIEMENS	GERMANY
	YOKOGAWA	THE NETHERLANDS / JAPAN

3.1.6- HIGH INTEGRATION PROTECTION SYSTEM (HIPS)		
	HIMA	GERMANY
	ICS-TRIPLEX	UK
	PALADON SYSTEMS Ltd.	UK
	PRO CONTROL S.R.L	ITALY
	SAFETEC	ITALY
	TRICONEX	UK
	YOKOGAWA	JAPAN

3.1.6.1- LINE BREAK VALVE (LBV)		
	CYBER SANAT	IRAN
	PADIDEH ENERGY PARSIAN (PEPCO)	IRAN

3.1.7- BMS		
	ALLEN BRADLEY	BELGIUM / W. EUROPE
	EMERSON	UK / FRANCE
	GROUP SCHNEIDER	GERMANY / FRANCE
	HIMA	GERMANY
	HONEYWELL	GERMANY
	ICS TRIPLEX	UK
	JOHN ZINK	USA / W.EUROPE
	OMRON	JAPAN
	PILZ	GERMANY
	SAFETEC	ITALY
	SIEMENS	GERMANY

3.1.8- BMS / ESD SYSTEM INTEGRATION		
	ASIA CONTROL PEY	IRAN
	AZAR DAGHIGH IRANIAN	IRAN
	CONTROL POOYAN	IRAN
	CYBER SANAT	IRAN
	ENERGY KAVIR PAYA	IRAN
	GOROOH SANATI PATSA	IRAN
	HANIF	IRAN
	IDEH GLOBAL KISH	IRAN
	KERMAN TABLOUE	IRAN
	MANABEH ENSANI VA MOHANDESI IRAS TARH	IRAN
	MOHANDESI BARGH CONTROL VA ABZARDAGHIGH IDEH	IRAN
	NOVIN DANESH E AYANDEH	IRAN
	PARS JAHD FANAVAR	IRAN
	PETROFAN AVAR NIROU IRANIAN	IRAN
	SIGMA GOSTAR ARYA	IRAN
	TIMA KALA TEHRAN	IRAN

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
3.1.9- PLC		
	CONTRONIC	IRAN
	ALLEN BRADLEY	BELGIUM
	GE FANUC	UK / W.EUROPE
	GROUP SCHNEIDER	GERMANY
	HIMA	GERMANY
	HONEYWELL	GERMANY
	mitsubishi	JAPAN
	OMRON	JAPAN
	PILZ	GERMANY
	SIEMENS	GERMANY
	TOSHIBA	JAPAN
	WIKI ALEXANDER WIEGAND SE&CO	GERMANY
3.1.10- PLC INTEGRATION		
	ASIA CONTROL PEY	IRAN
	AZAR DAGHIGH IRANIAN	IRAN
	CONTROL & PARDAZESH HOOSHMAND	IRAN
	CONTRONIC	IRAN
	CYBER SANAT	IRAN
	ENERGY KAVIR PAYA	IRAN
	FALCON	IRAN
	FARAMOWJ POUYA	IRAN
	FARARAVESH	IRAN
	FARAYAND PARDAZ	IRAN
	FARS SCOUT	IRAN
	GOROOH SANATI FARINEH	IRAN
	GOROOH SANATI PATSA	IRAN
	HANIF	IRAN
	HAVAYAR CONTROL PISHRO(Only for Siemens brand)	IRAN
	HESCO	IRAN
	KERMAN TABLO	IRAN
	MANABEH ENSANI VA MOHANDESI IRAS TARH	IRAN
	MOHANDESI VA ABZAR DAGHIGH IDEH	IRAN
	NOVIN DANESH E AYANDEH	IRAN
	PARS JAHD FANAVAR	IRAN
	PAYKAR BONYAN	IRAN
	KHADAMAT MOHANDESI SIMAN FARS VA KHUZESTAN	IRAN
	SIGMA GOSTAR ARYA	IRAN
	TALIRAN	IRAN
	TAM IRAN KHODRO	IRAN
	TAVAN AZMAYAN	IRAN
3.1.11- TANK GAUGING SYSTEM (TGS)		
	EMKOMETER	CZECH
	ENDRESS & HAUSER	GERMANY / W.EUROPE
	HONEYWELL ENRAF	THE NETHERLANDS / W.EUROPE
	KROHNE	GERMANY / W.EUROPE
	MOTHERWELL CONTROL SYSTEM	UK
	SAAB ROSEMONT	SWEDEN / W. EUROPE
	SAKURA ENDRESS	JAPAN / W.EUROPE
	WHESOE VAREC	UK / W.EUROPE

3.1.12- CONTROL PANEL	<u>COMPANY NAME</u>	<u>ORIGIN</u>
	CONTRONIC	IRAN
	FALCON	IRAN
	FARANEGAR SANAT	IRAN
	FARARAVESH	IRAN
	FARAYAND PARDAZI(Only with Siemens brand)	IRAN
	FARS SCOUT	IRAN
	GOROOH SANATI FARINEH	IRAN
	GOROOH SANATI PATSA	IRAN
	HANIF	IRAN
	HESCO	IRAN
	KERMAN TABLO	IRAN
	MANABEH ENSANI VA MOHANDESI IRAS TARH	IRAN
	MOHANDESI VA ABZAR DAGHIGH IDEH	IRAN
	NOVIN DANESH E AYANDEH	IRAN
	PARS HASSAS	IRAN
	TABLO FAZ	IRAN
	TALIRAN	IRAN
	TOLIDE MALZOOMATE BARGH	IRAN
	ABB	GERMANY
	AST	ITALY
	AZBIL CORPORATION	JAPAN
	SIEMENS	GERMANY
	YOKOGAWA	JAPAN / W.EUROPE

3.1.13- MIMIC PANEL	KERMAN TABLO	IRAN
	NOVIN DANESH E AYANDEH	IRAN
	PARS HASSAS	IRAN
	RAHPOUYAN ANDISHEH DENA	IRAN
	TALIRAN	IRAN

3.1.14- CONTROLLER	ATBIN	IRAN
	ABB	GERMANY
	AZBIL CORPORATION	JAPAN
	EMERSON	UK / FRANCE
	EUROTHERM	UK
	FLUIDWELL BV	NEDERLANDS
	FUJI	JAPAN
	HONEYWELL	W. EUROPE
	YOKOGAWA	JAPAN / W.EUROPE

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
3.1.15- SCADA / DATA LOGGER		
	FARINEH FANAVAR	IRAN
	ABB	GERMANY
	EMERSON	UK / FRANCE
	FLUIDWELL BV	NEDERLANDS
	FUJI	JAPAN
	HITACHI	JAPAN
	HONEYWELL	GERMANY
	IDS GmbH	GERMANY
	YOKOGAWA	JAPAN / W.EUROPE
3.1.16- SCADA / DATA LOGGER INTEGRATION		
	CONTRONIC	IRAN
	CYBER SANAT	IRAN
	ENERGY KAVIR PAYA	IRAN
	GOROOH SANATI PATSA	IRAN
	ITA	IRAN
	KERMAN TABLO	IRAN
	MICRO MOJ	IRAN
	PARS JAHD FANAVAR	IRAN
	PARVARESH DADEHHA	IRAN
	SIGMA GOSTAR ARIA	IRAN
	TALIRAN	IRAN
	TAM IRAN KHODRO	IRAN
	TAVAN AZMAYAN	IRAN
3.1.17- TELEMETERING REMOTE TERMINAL UNIT (RTU)		
	IRAN MADAR	IRAN
	KERMAN TABLO	IRAN
	MICRO ELECTRONIC	IRAN
	TALIRAN	IRAN
	ABB	W. EUROPE
	CONTROL MICRO SYSTEM	CANADA
	EMERSON	W. EUROPE
	FUJI	JAPAN
	HITACHI	JAPAN
	IDS GmbH	GERMANY
	YOKOGAWA	JAPAN / W.EUROPE
3.1.18- TELEMETERING RADIO		
	MIKRO ELECTRONIC	IRAN
	ABB GROUP	GERMANY
	CONTROL MICRO SYSTEM	GERMANY
	FUJI	JAPAN
	HITACHI	JAPAN
	SIAE	ITALY
	TRIO	AUSTRALIA

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
3.1.19- INDICATOR		
	ATBIN	IRAN
	IRAN MADAR	IRAN
	KERMAN TABLO	IRAN
	PARS HASSAS	IRAN
	SA IRAN	IRAN
	SANAYE ELECTRONIC SHIRAZ	IRAN
	ABB	GERMANY
	AZBIL CORPORATION	JAPAN
	EMERSON	UK / FRANCE
	EMKOMETER	CZECH
	EUROTHERM	UK
	FLUIDWELL BV	NEDERLANDS
	FUJI	JAPAN
	HONEYWELL	W.EUROPE
	WKA ALEXANDER WIEGAND SE&CO	GERMANY
	YOKOGAWA	JAPAN / W.EUROPE
3.1.20- RECORDER		
	PARS JAHAD	IRAN
	ABB	GERMANY
	AZBIL CORPORATION	JAPAN
	BARTON	UK
	CHESSELL	GERMANY
	EMERSON	UK / FRANCE
	EUROTHERM	UK
	FUJI	JAPAN
	HONEYWELL	W.EUROPE
	METROWATT	GERMANY
	STIKO MEETAPPARATENFABRIEK BV	NETHERLANDS
	YOKOGAWA	JAPAN / W.EUROPE
3.1.21- ANNUNCIATION PANEL		
	FARARAVESH	IRAN
	KERMAN TABLO	IRAN
	PARDISSAN	IRAN
	PARS ELECTRONIC KISH	IRAN
	PARS HASSAS	IRAN
	TALIRAN	IRAN
	TRADIS	IRAN
	AST	ITALY
	HIMA	GERMANY
	IDEC (IZUMI)	JAPAN
	KIMDEN	JAPAN
	OMRON	JAPAN
	PANALARM	W. EUROPE
	ROCHESTER	W. EUROPE
	RONAN	UK
	YOKOGAWA	JAPAN / W.EUROPE

COMPANY NAME	ORIGIN
3.1.22- MARSHALLING AND BARRIER CABINET	
CONTRONIC	IRAN
FARANEGAR SANAT	IRAN
FARARAVESH	IRAN
FARS SCOUT	IRAN
GHESTM VOLTAGE	IRAN
GOROOH SANATI FARINEH	IRAN
GOROOH SANATI PATSA	IRAN
HANIF	IRAN
HESCO	IRAN
KERMAN TABLO	IRAN
MANABEH ENSANI VA MOHANDESI IRAS TARH	IRAN
MOHANDESI VA ABZAR DAGHIGH IDEH	IRAN
NOVIN DANESH E AYANDEH	IRAN
PAYKAR BONYAN	IRAN
TABLO FAZ	IRAN
TALIRAN	IRAN
TAVAN AZMAYAN	IRAN
ABB	GERMANY
AST	ITALY
INDUSTRONIC	GERMANY
MITSUBISHI	JAPAN
RICHARDSON	UK
SIEMENS	GERMANY
STAHL	GERMANY
3.1.23- ISOLATING / BARRIER / REPEATER / AMPLIFIER	
BARTECH	W.EUROPE
EMKOMETER	CZECH
GM INTERNATIONAL	ITALY
HAWKE	UK
MTL	UK
PEPPERL & FUCHS	GERMANY
PR ELECTRONIC	DENMRK
REGULATEURS GEORGIN	FRANCE
STAHL	GERMANY
TURCK	UK

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
3.1.24- PERSONAL COMPUTER		
	GOROOH SANATI PATSA / ADAVANTECH	IRAN / UK
	COMPAQ	USA / W.EUROPE
	DELL	UK
	FUJITSU SIEMENS	JAPAN / GERMANY
	HIGH SCREEN	GERMANY
	HP	W.EUROPE
	KONTRON	GERMANY
	MICRO SYSTEM	UK
	PANASONIC	JAPAN
	PHILIPS	THE NETHERLANDS
	SHARP	JAPAN
	SONY	JAPAN
	TOSHIBA	JAPAN
3.1.25- PRINTER		
	EPSON	GERMANY / UK
	HP	W.EUROPE
	KODAK	JAPAN
	LG	KOREA
	SAMSUNG	KOREA
	SHARP	JAPAN
3.1.26- VIBRATION MONITORING SYSTEM		
	BENTLY NEVADA	W.EUROPE
	BRUEL & KJAER	GERMANY
	EPRO	GERMANY
	PROGNOST SYSTEMS GmbH	GERMANY
	SCHENCK	GERMANY
	SEASONICS	UK
	SHINKAWA	JAPAN
	VIBROMETER	SWISS
3.1.27- CONDITION MONITORING SYSTEM		
	BENTLY NEVADA	W.EUROPE
	BRUEL & KJAER	GERMANY
	EPRO	GERMANY
	PROGNOST SYSTEMS GmbH	GERMANY
	SCHENCK	GERMANY
	SEASONICS	UK
	SHINKAWA	JAPAN
	VIBROMETER	SWISS
3.1.28- GOVERNOR / OVER SPEED PROTECTION		
	SIEMENS	GERMANY
	WOODWARD	UK

COMPANY NAME	ORIGIN
3.1.29- FLOW METERING STATION	
ASIA ABZAR DAGHIGH	IRAN
FANAVARI & MASHIN SAZI E CHIRE (SAMIL)	IRAN
FARAMOWJ POUYA	IRAN
REZVAN GOSTARE TEHRAN	IRAN
TAHLILGARAN CONTROL FARAYAND (SOCRATE)	IRAN
ALDERLEY	UK
AO SMITH	USA / W.EUROPE
BOPP & REUTHER	W.EUROPE
EMERSON	UK
FORES ENGINEERING S.R.L	ITALY
INSTROMET	THE NETHERLANDS
INT SRL	ITALY
ODS Metering Systems B.V.	NETHERLANDS
OVAL	JAPAN
PETROL INSTRUMENTS SRL	ITALY
PETROMAX	UK
PROGETTI	ITALY
SAMIL INDUSTRY CO.	SOUTH KOREA
SMS	UK
SOCRATE	ITALY
VEYTECH	GERMANY
WHITELEY ENG.	UK

* For custody transfer applications and the same by Iranian Vendors, Refer to "Office of Supervision on Oil Exports" List. (www.mop.ir)

3.1.30- FLOW METERING PROVER	
ASIA ABZAR DAGHIGH	IRAN
REZVAN GOSTARE TEHRAN	IRAN
ALDERLEY	UK
INSTROMET	THE NETHERLANDS
OVAL	JAPAN
PETROL INSTRUMENTS SRL	ITALY

3.1.31- LEAKAGE DETECTION SYSTEM	
ABB	GERMANY
ATMOSI	UK
EMKOMETER	CZECH
KROHNE OIL & GAS	THE NETHERLANDS
SEIC	ITALY

3.1.32- HUMAN MACHINE INTERFACE (HMI)	
FARAYAND PARDAZ(Only with Siemens brand)	IRAN
FARINEH FANAVAR	IRAN
KERMAN TABLOUE	IRAN

3.1.33- WIRELESS INSTRUMENT	
EMERSON	W. EUROPE

3.2- ON - LINE ANALYZER

3.2.1- GAS CHROMATOGRAPH	
AGC INSTRUMENTS	IRELAND
ABB	UK / GERMANY
SICK	GERMANY
SIEMENS	GERMANY
YOKOGAWA	JAPAN

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
3.2.2- <i>INFRARED ANALYZER</i>		
	ABB	UK / GERMANY
	EMERSON	UK / FRANCE
	SERVOMEX	UK
	SICK	GERMANY
	SIEMENS	GERMANY
	YOKOGAWA	JAPAN
3.2.3- <i>RAMAN ANALYZER</i>		
	EMERSON	UK / FRANCE
	HORIBA (JOBIN VYON)	FRANCE
3.2.4- <i>OXYGEN ANALYZER</i>		
	ABB	UK / GERMANY
	AP2E	FRANCE
	EMERSON	UK
	ENDRESS & HAUSER	GERMANY
	ENOTEC	GERMANY
	FUJI	JAPAN
	MSA	THE NETHERLANDS
	OXITECH	W.EUROPE
	PANAMETRICS	W.EUROPE
	RB-TECHNOLOGIES	FRANCE
	SERVOMEX	UK
	SICK	GERMANY
	SIEMENS	GERMANY
	SYSTEC	W.EUROPE
	YOKOGAWA	JAPAN
3.2.5- <i>OXYGEN ANALYZER (IN LIQUID)</i>		
	ABB	UK / GERMANY
	ATI	UK
	Dr. THEIDIG	GERMANY
	EMERSON	UK / FRANCE
	ENDRESS & HAUSER	GERMANY
	GO SYSTEMELEKTRONIK GMBH*	GERMANY
	POLY METRON	FRANCE
	YOKOGAWA	JAPAN
	* ONLY FOR WATER APPLICATION.	
3.2.6- <i>H₂ ANALYZER</i>		
	PARS ELECTRONIC KISH	IRAN
	ABB	UK / GERMANY
	AP2E	FRANCE
	EMERSON	UK/ FRANCE
	SERVOMEX	UK
	SIEMENS	GERMANY
	YOKOGAWA	JAPAN

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
3.2.7- MOISTURE ANALYZER (IN GAS)		
	BARTEC	GERMANY
	BERTHOLD TECHNOLOGIES	GERMANY
	EMERSON	UK / FRANCE
	IMA	UK
	PANAMETRICS	UK
	ROTRONIK	JAPAN
	SHIRAKAWA	JAPAN
	SHAW	UK
	SICK	GERMANY
	SIEMENS	GERMANY
	YOKOGAWA	JAPAN
3.2.8- MOISTURE ANALYZER (IN LIQUID)		
	ABB	UK / GERMANY
	BERTHOLD TECHNOLOGIES	GERMANY
	PANAMETRICS	UK
	SERVOMEX	UK
	SIEMENS	GERMANY
	YOKOGAWA	JAPAN
3.2.9- SULPHUR ANALYZER (H2S / SOX / TAIL GAS)		
	ABB	UK / GERMANY
	AMETEC	GERMANY
	AP2E	FRANCE
	DELMAR	FRANCE
	EMERSON	UK
	GALVANIC APPLIED SCIENCE	CANADA
	MAIHAK	W.EUROPE
	NOVACHEM	W.EUROPE
	ONYX TRACKER	UK
	SERVOMEX	UK
	SICK	GERMANY
	SIEMENS	GERMANY
	YOKOGAWA	JAPAN
3.2.10- CHLORINE ANALYZER		
	ATI	UK
	AP2E	FRANCE
	EMERSON	UK / FRANCE
	ENDRESS & HAUSER	GERMANY
	GO SYSTEMELEKTRONIK GMBH*	GERMANY
	JESCO	GERMANY
	POLY METRON	FRANCE
	YOKOGAWA	JAPAN
* ONLY FOR WATER APPLICATION.		
3.2.11- SILICA ANALYZER		
	ENDRESS & HAUSER	GERMANY
	GO SYSTEMELEKTRONIK GMBH*	GERMANY
	POLY METRON	FRANCE
	SWAN	SWITZERLAND
* ONLY FOR WATER APPLICATION.		

	COMPANY NAME	ORIGIN
3.2.12- AMMONIA ANALYZER (IN WATER)		
ABB		GERMANY / UK
Dr. LANGE		GERMANY
GO SYSTEMELEKTRONIK GMBH*		GERMANY
* ONLY FOR WATER APPLICATION.		
3.2.13- PH METER		
PARS ELECTRONIC KISH		IRAN
ABB		UK / GERMANY
ATI		UK
DKK		JAPAN
EMERSON		UK / FRANCE
ENDRESS & HAUSER		GERMANY
GO SYSTEMELEKTRONIK GMBH*		GERMANY
HORIBA		JAPAN
IC CONTROL		W.EUROPE
LISLEMETRIK		GERMANY
METTLER TOLEDO		SWITZERLAND
POLY METRON		FRANCE
SERVOMEX		UK
SIEMENS		GERMANY
SWAN		SWITZERLAND
YOKOGAWA		JAPAN
* ONLY FOR WATER APPLICATION.		
3.2.14- CONDUCTIVITY METER		
PARS ELECTRONIC KISH		IRAN
ABB		UK / GERMANY
ATI		UK
BOPP & REUTHER		UK
DKK		JAPAN
EMERSON		UK / FRANCE
ENDRESS & HAUSER		GERMANY
GO SYSTEMELEKTRONIK GMBH*		GERMANY
HORIBA		JAPAN
IC CONTROL		W.EUROPE
IGEMA GMBH (only for water & steam)		GERMANY
LISLEMETRIK		GERMANY
METTLER TOLEDO		SWITZERLAND
PEEK MEASUREMENT		UK
POLY METRON		FRANCE
SERVOMEX		UK
SIEMENS		GERMANY
SWAN		SWITZERLAND
THEIS		THE NETHERLANDS
YOKOGAWA		JAPAN
* ONLY FOR WATER APPLICATION.		
3.2.15- TURBIDITY / COLOR METER		
ATI		UK
EMERSON		UK / FRANCE
GO SYSTEMELEKTRONIK GMBH*		GERMANY
LISLEMETRIK		GERMANY
NOVATEC		UK
* ONLY FOR WATER APPLICATION.		

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
3.2.16- ANALYZER INTEGRATION		
	CONTROL POOYAN	IRAN
	FONOONE BARTARE TAV	IRAN
	MEHR KANAZ	IRAN
	PIRAMOON SYSTEM QESHM	IRAN
	RAHBORDHAYE HOOSHMAND	IRAN
	SANDROOS SANAT	IRAN
	SIMA MEHR	IRAN
	TAHLILGARAN CONTROL FARAYAND	IRAN
	ZIST ANDISH PISHGAM	IRAN
	ABB	W.EUROPE
	CEGELEC	FRANCE
	FORES ENGINEERING S.R.L	ITALY
	HOBRE	NETHERLANDS
	INT S.R.L	ITALY
	TAECHIN SMET CORPORATION	SOUTH KOREA
3.2.17- DENSITY METER		
	BERTHOLD TECHNOLOGIES	GERMANY
	EMERSON	UK / FRANCE
	ENDRESS & HAUSER	GERMANY
	LEMIS BALTIC	LATVIA
3.2.18- TOTAL HYDROCARBON ANALYZER		
	AP2E	FRANCE
	GO SYSTEMELEKTRONIK GMBH*	GERMANY
	SICK	GERMANY
	SIEMENS	GERMANY
	* ONLY FOR WATER APPLICATION.	
3.2.19- CH4 ANALYZER		
	PARS ELECTRONIC KISH	IRAN
	EMERSON	UK / FRANCE
	SICK	GERMANY
3.2.20- ALUMINIUM ALKYL ANALYZER		
	JESCO	GERMANY
	SIEMENS	GERMANY
3.2.21- SAMPLING SYSTEM		
	PETRO ARTAN PART	IRAN
	DOEDJINS	NETHERLANDS
	FORES ENGINEERING S.R.L	ITALY
	INT S.R.L	ITALY
	KIMMAN PROCESS SOLUTIONS B.V.(KPS B.V)	NETHERLANDS
3.3- HSE EQUIPMENT		
3.3.1- F & G SYSTEM		
	APOLLO	UK / W.EUROPE
	ANSUL	UK
	ATRONICA	NORWAY
	BLACK FIRE	CANADA
	CHUBB FIRE	UK / W.EUROPE
	CROWCON	UK / W.EUROPE
	DETECTOMAT	W.EUROPE
	DRAEGER	GERMANY / W.EUROPE

COMPANY NAME	ORIGIN
G.F.G	GERMANY
GEBHARDT AUTOMATION GMBH	GERMANY
GENERAL MONITOR	UK / W.EUROPE
KIDDE	ITALY / W.EUROPE
HOCKE	JAPAN
MINIMAX	UK / W.EUROPE
PREUSSAG	UK / W.EUROPE
SAFETEC	ITALY
SANCO FIRE PROTECTION AND SAFETY TECHNOLOGY	ITALY
SES ENSER	ITALY / W.EUROPE
SIEMENS	GERMANY / W.EUROPE
SILVANI	ITALY / W.EUROPE
SILVERTEC	UK
TOTAL WALTHER	GERMANY

3.3.2- F & G SYSTEM INTEGRATION

ASIA CONTROL PEY	IRAN
CONTROL POOYAN	IRAN
CYBER SANAT	IRAN
ENERGY KAVIR PAYA	IRAN
FONON BARTAR TAV	IRAN
NOVIN DANESH E AYANDEH	IRAN
IDEH GLOBAL KISH	IRAN
KERMAN TABLOUE	IRAN
MOHANDESI BARGH CONTROL VA ABZARDAGHIGH IDEH	IRAN
NARFOAMKAR	IRAN
PARS JAHD FANAVAR	IRAN
PETROFAN AVAR NIROU IRANIAN	IRAN
SARIAK	IRAN
SIGMA GOSTAR ARYA	IRAN
SPIN ELECTRIC	IRAN
TIMA KALA TEHRAN	IRAN

3.3.3- GAS AND VAPOR DETECTOR

COMPUTER MONITOR	GERMANY
CROWCON	UK / W.EUROPE
DELTA CONTROLS LIMITED	UK
DRAEGER	GERMANY / W.EUROPE
FENWAL	UK / W.EUROPE
GASTEC	JAPAN
GENERAL MONITOR	UK / W.EUROPE
GFG	GERMANY / W.EUROPE
MSA	USA
OLDHAM	W.EUROPE
PHOTAIN	UK / W.EUROPE
PREUSSAG	UK / W.EUROPE
SES ENSER	ITALY / W.EUROPE
SILVANI	FRANCE / W.EUROPE
SILVERTEC	UK
SIMTRONICS	NORWAY
SKC	USA
ZELLWEGER	GERMANY / W.EUROPE

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
3.3.4- <i>SMOKE DETECTOR</i>		
	PARS ELECTRONIC KISH	IRAN
	APOLLO	UK / W.EUROPE
	CHUBB	UK / W.EUROPE
	CROWCON	UK / W.EUROPE
	DETECTOMAT	GERMANY / W.EUROPE
	HOCHIKI EUROPE	UK
	FIGGIE	ITALY / W.EUROPE
	GENERAL MONITOR	UK / W.EUROPE
	MINIMAX	UK / W.EUROPE
	PHOTAIN	UK / W.EUROPE
	PREUSSAG	UK / W.EUROPE
	THORN	UK / W.EUROPE
3.3.5- <i>HEAT DETECTOR</i>		
	APOLLO	UK / W.EUROPE
	CHUBB	UK / W.EUROPE
	CROWCON	UK / W.EUROPE
	DETECTOMAT	GERMANY / W.EUROPE
	HOCHIKI EUROPE	UK
	FIGGIE	ITALY / W.EUROPE
	GENERAL MONITOR	UK / W.EUROPE
	MINIMAX	UK / W.EUROPE
	PHOTAIN	UK / W.EUROPE
	PREUSSAG	UK / W.EUROPE
	THORN	UK / W.EUROPE
3.3.6- <i>FLAME DETECTOR</i>		
	APOLLO	UK / W.EUROPE
	CROWCON	UK / W.EUROPE
	DETECTOMAT	GERMANY / W.EUROPE
	GENERAL MONITOR	UK / W.EUROPE
	HOCHIKI EUROPE	UK
	MINIMAX	UK / W.EUROPE
	PHOTAIN	UK / W.EUROPE
	PREUSSAG	UK / W.EUROPE
	RAMZY	ITALY
3.3.7- <i>MANUAL CALL POINT</i>		
	BARTEC	FRANCE / GERMANY
	HOCHIKI EUROPE	UK
	STAHL	GERMANY
	THORN	UK
3.3.8- <i>EMISSION MONITORING SYSTEM (EMS)</i>		
	AP2E	FRANCE
	CROWCON	UK / W.EUROPE
	DURAG	GERMANY
	ENVIRONMENTS A	FRANCE

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
3.3.9- <i>EMS INTEGRATION</i>		
	ZIST ANDISH PISHGAM	IRAN
	AP2E	FRANCE

3.4- FIELD DEVICE

3.4.1- <i>DISPLACER TYPE LEVEL TRANSMITTER</i>		
	ABZARDAGHIGH AZARSAM(It doesn't support "Hart protocol")	IRAN
	AZBIL CORPORATION	IRAN
	DRESSER (MASONIELAN)	W.EUROPE
	EMKOMETER	CZECH
	EMERSON	W.EUROPE
	FOX BORO	USA / W.EUROPE
	LEAM S.R.L	ITALY
	MAGNETROL	USA / W.EUROPE
	MORITAN	JAPAN
	SPRIANO TECHNOLOGIES SRL (TERANOVA GROUP)	ITALY
	TAKROL	UK
	TOKYO KEISO	JAPAN

3.4.2- <i>CAPACITIVE TYPE LEVEL TRANSMITTER</i>		
	EMKOMETER	CZECH
	ENDRESS & HAUSER	GERMANY / W.EUROPE
	IGEMA GMBH (only for water & steam)	GERMANY
	TOKYO KEISO	JAPAN
	VEGA	GERMANY / W.EUROPE

3.4.3- <i>RADIOACTIVE TYPE LEVEL TRANSMITTER</i>		
	BERTHOLD	GERMANY / W.EUROPE
	ENDRESS & HAUSER	GERMANY / W.EUROPE
	MOTOYAMA	JAPAN / W.EUROPE
	OHMART	JAPAN / W.EUROPE
	PANAMETRIC	JAPAN / W.EUROPE

3.4.4- <i>RADAR TYPE LEVEL TRANSMITTER</i>		
	EMKOMETER	CZECH
	ENDRESS & HAUSER	GERMANY / W.EUROPE
	FLUIDWELL BV	NEDERLANDS
	HONEYWELL ENRAF	THE NETHERLANDS / W.EUROPE
	KROHNE	GERMANY / W.EUROPE
	SAAB ROSEMONT	SWEDEN / W.EUROPE
	SAKURA ENDRESS	JAPAN / W.EUROPE
	VEGA	GERMANY / W.EUROPE
	WHESOE VAREC	UK / W.EUROPE

3.4.5- <i>ULTRASONIC TYPE LEVEL TRANSMITTER</i>		
	PARS ELECTRONIC KISH	IRAN
	EMKOMETER	CZECH
	ENDRESS & HAUSER	GERMANY / W.EUROPE
	KDG MOBREY	UK
	KROHNE	GERMANY / W.EUROPE
	MAGNETROL	USA / W.EUROPE
	MILTRONIC	GERMANY / W.EUROPE
	VEGA	GERMANY / W.EUROPE

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
3.4.6- SERVO & FLOAT TYPE LEVEL TRANSMITTER		
	TEHRAN DELIK(Only "FLOAT TYPE")	IRAN
	DELTA CONTROLS LIMITED	UK
	EMKOMETER	CZECH
	ENDRESS & HAUSER	GERMANY
	PHONIX & KSR KUEBLER (WIKA GROUP)	GERMANY
	HONEYWELL ENRAF	THE NETHERLANDS / W.EUROPE
	TOKYO KEISO	JAPAN
	VEGA	GERMANY / W.EUROPE
	WHESSOE VAREC	UK
3.4.7- MAGNETIC LEVEL GAUGE		
	ABZARDAGHIGH AZARSAM	IRAN
	ESHTAL ARAK	IRAN
	PARS ELECTRONIC KISH	IRAN
	EMKOMETER	CZECH
	IGEMA GMBH (only for water & steam)	GERMANY
	SANAYE CONTROLI HASSAS	IRAN
	TEHRAN DELIK	IRAN
	BONETTI	ITALY / W.EUROPE
	KROHNE	GERMANY / W.EUROPE
	MAGNETROL	USA / W.EUROPE
	PHONIX (WIKA GROUP)	GERMANY
	SAMIL INDUSTRY CO.	SOUTH KOREA
	SPRIANO TECHNOLOGIES SRL (TERANOVA GROUP)	ITALY
	TC KLINGER	UK / W.EUROPE
	WEKA INSTRUMENT	GERMANY / W.EUROPE
	WISE CONTROL INC.	SOUTH KOREA
3.4.8- LEVEL GAUGE GLASS		
	SANAYE CONTROLI HASSAS	IRAN
	TEHRAN DELIK	IRAN
	BONETTI	ITALY / W.EUROPE
	EMKOMETER	CZECH
	MAGNETROL	USA / W.EUROPE
	NIHON	JAPAN
	PHONIX (WIKA GROUP)	GERMANY
	SAMIL INDUSTRY CO.	SOUTH KOREA
	SPRIANO TECHNOLOGIES SRL (TERANOVA GROUP)	ITALY
	TC KLINGER	UK / W.EUROPE
	TOKYO KEISO	JAPAN
	WISE CONTROL INC.	SOUTH KOREA
3.4.9- LEVEL SWITCH (FLOAT & DISPLACER TYPE)		
	ABZARDAGHIGH AZARSAM	IRAN
	ESHTAL ARAK	IRAN
	PARS ELECTRONIC KISH	IRAN
	IGEMA GMBH (only for water & steam)	GERMANY
	TEHRAN DELIK	IRAN
	ANALYTIC	GERMANY / W.EUROPE
	BESTA	SWITZERLAND
	DELTA CONTROLS LIMITED	UK
	EMKOMETER	CZECH
	ENDRESS & HAUSER	GERMANY / W.EUROPE
	JUCKER	UK / W.EUROPE
	KOBOLD	W.EUROPE
	LABKO	FINLAND
	MAGNETROL	USA / W.EUROPE
	OFFICINE OROBICHE	ITALY
	PHONIX (WIKA GROUP)	GERMANY
	SPRIANO TECHNOLOGIES SRL (TERANOVA GROUP)	ITALY
	TOKYO KEISO	JAPAN
	WISE CONTROL INC.	SOUTH KOREA
3.4.10- LEVEL SWITCH (TUNING FORK TYPE)		
	EMKOMETER	CZECH
	ENDRESS & HAUSER	GERMANY / W.EUROPE
	VEGA	GERMANY / W.EUROPE

	COMPANY NAME	ORIGIN
3.4.11- LEVEL SWITCH (CAPACITANCE TYPE)		
	PARS ELECTRONIC KISH	IRAN
	EMKOMETER	CZECH
	ENDRESS & HAUSER	GERMANY / W.EUROPE
	IGEMA GMBH (only for water & steam)	GERMANY
	TOKYO KEISO	JAPAN
	VEGA	GERMANY / W.EUROPE
3.4.12- LEVEL SWITCH (RADIOACTIVE TYPE)		
	BERTHOLD	GERMANY
	ENDRESS & HAUSER	GERMANY / W.EUROPE
	OHMART	JAPAN / W.EUROPE
	PANAMETRICS	JAPAN / W.EUROPE
3.4.13- CONTROL VALVE (GLOBE)		
	ATRONIC KISH	IRAN
	BEHBOOD FARAYAND RADMAN	IRAN
	BORNA SANAT TOOS	IRAN
	RASTA GROUP INDUSTRIAL VALVE MFG & DEV	IRAN
	SADRA MAHAN PARSIAN	IRAN
	ARCA REGLER GMBH	GERMANY
	ARI-ARMATUREN ALBERT RICHTER GmbH&Co.KG	GERMANY
	ASAHI	JAPAN
	AZBIL CORPORATION	JAPAN
	BFS INCORPORATION	SOUTH KOREA
	BURKERT	GERMANY
	CCI	SWITZERLAND
	DRESSER	GERMANY / W.EUROPE
	EMERSON	ITALY
	FLOW STREAM INTERNATIONAL LTD.	UK
	FLOWERVE CORPORATION	W.EUROPE
	GREEN CONTROL srl.	ITALY
	KOPECS CO. LTD	SOUTH KOREA
	KOREA MOTOYAMA Inc. (KOMOTO)	SOUTH KOREA
	KSB	GERMANY
	LVF S.P.A.	ITALY
	MANKENBER	GERMANY
	MASCOT VALVES PVT LTD	AUSTRALIA
	METSO FLOW CONTROL (INTERNATIONAL)	FINLAND
	MOTOYAMA	JAPAN
	NIHON KOSO CO. LTD	JAPAN
	OVERSEAS ENGINEERING AM	SWITZERLAND
	PARCOL S.P.A	ITALY
	RMT VALVOMECHANICA S.R.L	ITALY
	SAMSON	GERMANY
	SCHUF ARMATUREN & APPARATEBAU GmbH	GERMANY
	SEOJEON VALMAC Co. LTD	SOUTH KOREA
	SEVERN GLOCON	UK
	S&S VALVE Co. LTD	SOUTH KOREA
	UNICON CO. LTD	SOUTH KOREA
	UNIFLO Co. Ltd.	SOUTH KOREA
	VECTOR & WELLHEADS ENGINEERING	SPAIN
	WALDEMAR PRUSS ARMATURENFABRIK GmbH	GERMANY
	WEIR VALVE & CONTROL	UK
	XOMOX	GERMANY / W.EUROPE

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
3.4.14- CONTROL VALVE (BALL)		
	ATRONIC KISH	IRAN
	BEHBOOD FARAYAND RADMAN	IRAN
	RASTA GROUP INDUSTRIAL VALVE MFG & DEV	IRAN
	SADRA MAHAN PARSIAN	IRAN
	CCI	SWITZERLAND
	FG VALVOLE SRL	ITALY
	DAEJU CONTROL CO.	SOUTH KOREA
	DRESSER	W.EUROPE
	EMERSON	UK / W.EUROPE
	EUROMATIC	ITALY
	FLOWERVE CORPORATION	W.EUROPE
	KITZ	GERMANY
	KOPECS CO. LTD	SOUTH KOREA
	KOREA MOTOYAMA Inc. (KOMOTO)	SOUTH KOREA
	KTM (KITAMUR)	JAPAN
	LVF S.P.A.	ITALY
	METSO FLOW CONTROL (INTERNATIONAL)	FINLAND
	NIHON KOSO CO. LTD	JAPAN
	NIHONDA	JAPAN
	PARCOL S.P.A.	ITALY
	RMT VALVOMECCANICA S.R.L	ITALY
	SAMSON	GERMANY
	SEOJEON VALMAC Co. LTD	SOUTH KOREA
	S&S VALVE Co. LTD	SOUTH KOREA
	UNIFLO Co. Ltd.	SOUTH KOREA
	VALTEK	UK / W.EUROPE
	VECTOR & WELLHEADS ENGINEERING	SPAIN
	WALDEMAR PRUSS ARMATURENFABRIK GmbH	GERMANY
	WEIR VALVE & CONTROL	UK
3.4.15- CONTROL VALVE (BUTTERFLY)		
	ATRONIC KISH	IRAN
	BEHBOOD FARAYAND RADMAN	IRAN
	MIRAB	IRAN
	RASTA GROUP INDUSTRIAL VALVE MFG & DEV	IRAN
	SADRA MAHAN PARSIAN	IRAN
	ADAMS ARMATUREN GmbH	GERMANY
	ARI-ARMATUREN ALBERT RICHTER GmbH&Co.KG	GERMANY
	AZBIL CORPORATION	JAPAN
	BRAY CONTROLS	UK
	EMERSON	UK / W.EUROPE
	GOLD	GERMANY
	KITZ	GERMANY
	KOREA MOTOYAMA Inc. (KOMOTO)	SOUTH KOREA
	METSO FLOW CONTROL (INTERNATIONAL)	FINLAND
	NIHON KOSO CO. LTD	JAPAN
	PARCOL S.P.A.	ITALY
	RMT VALVOMECCANICA S.R.L	ITALY
	SAMSON	GERMANY
	SEVERN GLOCON	UK
	STRAHMAN VALVES FRANCE	FRANCE
	SUNGDO CO. LTD	SOUTH KOREA
	TYCO	JAPAN / W.EUROPE
	UNICON CO. LTD	SOUTH KOREA
	UNIFLO Co. Ltd.	SOUTH KOREA
	VECTOR & WELLHEADS ENGINEERING	SPAIN
	WEIR VALVE & CONTROL	UK
	XOMOX	GERMANY / W.EUROPE
3.4.16- CONTROL VALVE (ECCENTRIC PLUG)		
	RASTA GROUP INDUSTRIAL VALVE MFG & DEV.	IRAN
	AZBIL CORPORATION	JAPAN
	DRESSER	UK / W.EUROPE
	EMERSON	UK / W.EUROPE
	KOPECS CO. LTD	SOUTH KOREA
	LVF S.P.A.	ITALY
	METSO FLOW CONTROL (INTERNATIONAL)	FINLAND
	OVERSEAS ENGINEERING AM	SWITZERLAND

PARCOL S.P.A	ITALY
SAMSON	GERMANY
SCHUF ARMATUREN & APPARATEBAU GmbH	GERMANY
S&S VALVE Co. LTD	SOUTH KOREA
VECTOR & WELLHEADS ENGINEERING	SPAIN
WEIR VALVE & CONTROL	UK

COMPANY NAME	ORIGIN
3.4.17- CONTROL VALVE (ANGLE)	
BEHBOOD FARAYAND RADMAN	IRAN
RASTA GROUP INDUSTRIAL VALVE MFG & DEV.	IRAN
ARCA REGLER GMBH	GERMANY
BURKERT	GERMANY
CCI	SWITZERLAND
FLOWSERVE CORPORATION	USA / W. EUROPE / CANADA
KOREA MOTOYAMA Inc. (KOMOTO)	SOUTH KOREA
METSO FLOW CONTROL (INTERNATIONAL)	FINLAND
NIHON KOSO CO. LTD	JAPAN
OVERSEAS ENGINEERING AM	SWITZERLAND
PARCOL S.P.A	ITALY
RMT VALVOMECCANICA S.R.L	ITALY
SCHUF ARMATUREN & APPARATEBAU GmbH	GERMANY
S&S VALVE Co. LTD	SOUTH KOREA
UNIFLO Co. Ltd.	SOUTH KOREA
VECTOR & WELLHEADS ENGINEERING	SPAIN
WALDEMAR PRUSS ARMATURENFABRIK GmbH	GERMANY

3.4.18- CONTROL VALVE (3 WAY)	
BEHBOOD FARAYAND RADMAN	IRAN
RASTA GROUP INDUSTRIAL VALVE MFG & DEV.	IRAN
ARCA REGLER GMBH	GERMANY
ARI-ARMATUREN ALBERT RICHTER GmbH&Co.KG	GERMANY
CCI	SWITZERLAND
EMERSON	UK / W.EUROPE
KOREA MOTOYAMA Inc. (KOMOTO)	SOUTH KOREA
KTM	JAPAN
METSO FLOW CONTROL (INTERNATIONAL)	FINLAND
NIHON KOSO CO. LTD	JAPAN
OHL GUTERMUTH INDUSTRIAL VALVES GMBH	GERMANY
OVERSEAS ENGINEERING AM	SWITZERLAND
PARCOL S.P.A	ITALY
RMT VALVOMECCANICA S.R.L	ITALY
SAMSON	GERMANY
SCHUF ARMATUREN & APPARATEBAU GmbH	GERMANY
S&S VALVE Co. LTD	SOUTH KOREA
UNICON CO. LTD	SOUTH KOREA
VECTOR & WELLHEADS ENGINEERING	SPAIN
WALDEMAR PRUSS ARMATURENFABRIK GmbH	GERMANY
WEIR VALVE & CONTROL	UK

3.4.19- CONTROL VALVE (NEEDLE VALVE)	
BEHBOOD FARAYAND RADMAN	IRAN
AZBIL CORPORATION	JAPAN
DRESSER	UK / W.EUROPE
EMERSON	UK / W.EUROPE
FG VALVOLE SRL	ITALY
KOREA MOTOYAMA Inc. (KOMOTO)	SOUTH KOREA
NIHON KOSO CO. LTD	JAPAN
OVERSEAS ENGINEERING AM	SWITZERLAND
PARCOL S.P.A	ITALY
VECTOR & WELLHEADS ENGINEERING	SPAIN
WEIR VALVE & CONTROL	UK

3.4.20- DIAPHRAGM TYPE CONTROL VALVE	
ASAHI	JAPAN
KITAMURA	JAPAN
NDV	JAPAN
NIHON KOSO CO. LTD	JAPAN
NIPPON DAIYA	JAPAN
PARCOL S.P.A	ITALY
SAUNDRES	UK / W.EUROPE
VECTOR & WELLHEADS ENGINEERING	SPAIN
WEIR VALVE & CONTROL	UK

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
3.4.21- CONTROL VALVE POSITIONER		
	PARS ELECTRONIC KISH	IRAN
	RASTA GROUP INDUSTRIAL VALVE MFG & DEV	IRAN
	ARCA REGLER GMBH	GERMANY
	AZBIL CORPORATION	JAPAN
	BURKERT	GERMANY
	CCI	SWITZERLAND
	EMERSON	JAPAN / W.EUROPE
	HONEYWELL	GERMANY
	METSO FLOW CONTROL (INTERNATIONAL)	FINLAND
	NIHON KOSO CO. LTD	JAPAN
	SAMSON	GERMANY
	SMAR	BRAZIL
	SPRIANO TECHNOLOGIES SRL (TERANOVA GROUP)	ITALY
	YOKOGAWA	JAPAN / W.EUROPE
3.4.22- I/P, P/I & F/P CONVERTOR		
	PARS ELECTRONIC KISH	IRAN
	ABB	GERMANY
	EMERSON	UK / FRANCE
	FOXBORO	USA / W. EUROPE
	HONEYWELL	GERMANY
	KROHNE	GERMANY
	SMAR	BRAZIL
	SPRIANO TECHNOLOGIES SRL (TERANOVA GROUP)	ITALY
3.4.23- MOTOR OPERATED VALVE		
	BADRAN	IRAN
	PISHGAM	IRAN
	RASTA GROUP INDUSTRIAL VALVE MFG & DEV	IRAN
	AMPO S.COOP. (POYAM VALVES)	SPAIN
	ARI-ARMATUREN ALBERT RICHTER GmbH&Co.KG	GERMANY
	BRAY CONTROLS	UK
	FG VALVOLE SRL	ITALY
	L.BERNARD	FRANCE
	LIMITORQUE	UK
	LVF S.P.A.	ITALY
	MALBRANQUE(VALCO GROUP)	FRANCE
	METSO FLOW CONTROL (INTERNATIONAL)	FINLAND
	NIHON KOSO CO. LTD	JAPAN
	OVERSEAS ENGINEERING AM	SWITZERLAND
	PEKOS VALVES	SPAIN
	RMT VALVOMECCANICA S.R.L	ITALY
	ROTORK	UK
	SCHUF ARMATUREN & APPARATEBAU GmbH	GERMANY
	SHIMADZU SEIASKUSHO	JAPAN
	VECTOR & WELHEADS SL(VECTOR VALVES)	ITALY
	S&S VALVE Co. LTD	SOUTH KOREA
3.4.24- PRESSURE SELF REGULATING VALVE		
	ABZARDAGHIGH AZARSAM	IRAN
	BEHBOOD FARAYAND RADMAN	IRAN
	RASTA GROUP INDUSTRIAL VALVE MFG & DEV	IRAN
	ARI-ARMATUREN ALBERT RICHTER GmbH&Co.KG	GERMANY
	EMERSON	UK / FRANCE
	KOPECS CO. LTD	SOUTH KOREA
	MANKENBERG	GERMANY
	NIHON KOSO CO. LTD	JAPAN
	OVERSEAS ENGINEERING AM	SWITZERLAND
	PRESSURE TECH	UK
	SAMSON	GERMANY
	UNICON CO. LTD	SOUTH KOREA
3.4.25- TEMPERATURE SELF REGULATING VALVE		
	ABZARDAGHIGH AZARSAM	IRAN
	ARI-ARMATUREN ALBERT RICHTER GmbH&Co.KG	GERMANY
	DUNFOSS	DENMARK
	NIHON KOSO CO. LTD	JAPAN
	SAMSON	GERMANY

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
3.4.26- DESUPER HEATER		
	BEHBOOD FARAYAND RADMAN	IRAN
	ARCA REGLER GMBH	GERMANY
	ARTES VALVE & SERVICE GmbH	GERMANY
	CCI / BTG	SWITZERLAND
	COPEES VULCAN	UK
	DAEJU CONTROL CO.	SOUTH KOREA
	GADELIUS	JAPAN
	GREEN CONTROL srl	ITALY
	HOPKINSON	UK
	KIEKENS	THE NETHERLANDS
	KOPECS CO. LTD	SOUTH KOREA
	KOREA MOTOYAMA Inc. (KOMOTO)	SOUTH KOREA
	NIHON KOSO CO. LTD	JAPAN
	OVERSEAS ENGINEERING AM	SWITZERLAND
	PARCOL S.P.A	ITALY
	S&S VALVE Co. LTD	SOUTH KOREA
	UNICON CO. LTD	SOUTH KOREA
	UNIFLO Co. Ltd.	SOUTH KOREA
	WALDEMAR PRUSS ARMATURENFABRIK GmbH	GERMANY
	YAR WAY	JAPAN
3.4.27- SAFETY VALVE		
	BEHBOOD FARAYAND RADMAN	IRAN
	FARAVAR AZIN FELEZ	IRAN
	ARI-ARMATUREN ALBERT RICHTER GmbH&Co.KG	GERMANY
	AST	ITALY
	BOPP & REUTHER	GERMANY
	CROSBY	UK
	DRESSER	GERMANY
	FARRIS	UK
	FUKUI	JAPAN
	LESER	GERMANY
	NACIONAL S.A	SPAIN
	SAPAG	FRANCE
	SEREG (VALCO GROUP)	FRANCE
	S&S VALVE Co. LTD	SOUTH KOREA
	TAI MILANO	ITALY
	TECHNICAL SRL	ITALY
3.4.28- RUPTURE DISC		
	BS & B	UK
	ELFAB HUGHES	UK
	FDC LIMITED COMPANY	SOUTH KOREA
	FIKE	THE NETHERLANDS
	LAMOT	W.EUROPE
	REMBE GMBH SAFETY & CONTROL	GERMANY
	STRIKO VERFAHRENSTECHNIK	GERMANY
3.4.29- BREATHER VALVE		
	CHYODA	JAPAN
	FLAME & FILTER	GERMANY
	KOPECS CO. LTD	SOUTH KOREA
	MARVAI	W.EUROPE
	PROTEGO	GERMANY
	UNIT INTERNATIONAL	UK
	WEHSSOE VAREC	UK
3.4.30- EMERGENCY VENT VALVE		
	BS & B	UK
	ELFAB HUGHES	UK
	FDC LIMITED COMPANY	SOUTH KOREA
	FIKE	THE NETHERLANDS
	FUKADA	JAPAN
	HITACHI	JAPAN
	LAMOT	W.EUROPE
	METSO FLOW CONTROL (INTERNATIONAL)	FINLAND
	SIEMENS	GERMANY

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
3.4.31- DELUGE VALVE		
	CHUB	UK
	PREUSSAG	GERMANY
	SILVANI	ITALY
3.4.32- ON/OFF VALVE (BALL)		
	ATRONIC KISH	IRAN
	BADRAN	IRAN
	BEHBOOD FARAYAND RADMAN	IRAN
	PISHGAM	IRAN
	RASTA GROUP INDUSTRIAL VALVE MFG & DEV.	IRAN
	SADRA MAHAN PARSIAN	IRAN
	ACT	FRANCE
	AMPO S.COOP. (Poyam Valves)	SPAIN
	BAC VALVE SA	SPAIN
	DAEJU CONTROL CO.	SOUTH KOREA
	DE - YONG KOHEN	FRANCE
	FG VALVOLE SRL	ITALY
	FLOW CONTROL TECHNOLOGY	FRANCE
	FLOWERVE ARGUS	GERMANY
	GRINELL	W.EUROPE
	KITZ	GERMANY
	KOPECS CO. LTD	SOUTH KOREA
	KOREA MOTOYAMA Inc. (KOMOTO)	SOUTH KOREA
	KSB	GERMANY
	KTM	JAPAN
	LVF S.P.A.	ITALY
	METSO AUTOMATION	GERMANY
	METSO FLOW CONTROL (INTERNATIONAL)	FINLAND
	NIHON KOSO CO. LTD	JAPAN
	NIPPON	JAPAN
	OMAL S.P.A	ITALY
	PEKOS VALVES	SPAIN
	RMT Valvomeccanica S.R.L	ITALY
	SALARI	FRANCE
	SCHUF ARMATUREN & APPARATEBAU GmbH	GERMANY
	S&S VALVE Co. LTD	SOUTH KOREA
	TYCO	JAPAN
	UNIFLO Co. Ltd.	SOUTH KOREA
	VALPRES S.R.L	ITALY
	VECTOR & WELLHEADS SL(VECTOR VALVES)	ITALY
	WEIR VALVE & CONTROL	UK
3.4.33- ON/OFF VALVE (BUTTERFLY)		
	ATRONIC KISH	IRAN
	BEHBOOD FARAYAND RADMAN	IRAN
	MIRAB	IRAN
	RASTA GROUP INDUSTRIAL VALVE MFG & DEV.	IRAN
	SADRA MAHAN PARSIAN	IRAN
	ADAMS ARMATUREN GmbH	GERMANY
	AMPO S.COOP. (POYAM VALVES)	SPAIN
	ARI-ARMATUREN ALBERT RICHTER GmbH&Co.KG	GERMANY
	BRAY CONTROLS	UK
	DRESSER	UK / W.EUROPE
	GOLD	GERMANY
	KOREA MOTOYAMA Inc. (KOMOTO)	SOUTH KOREA
	METSO FLOW CONTROL (INTERNATIONAL)	FINLAND
	MOTOYAMA	JAPAN
	NIHON KOSO CO. LTD	JAPAN
	RMT VALVOMECCANICA S.R.L	ITALY
	SAMSON	GERMANY
	STRAHMAN VALVES FRANCE	FRANCE
	SUNGDO CO. LTD	SOUTH KOREA
	TOMOE VALVE	JAPAN
	TYCO	JAPAN
	UNICON CO. LTD	SOUTH KOREA
	UNIFLO Co. Ltd.	SOUTH KOREA
	WEIR VALVE & CONTROL	UK

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
3.4.34- ON/OFF VALVE (ANGLE)		
	SADRA MAHAN PARSIAN	IRAN
	RASTA GROUP INDUSTRIAL VALVE MFG & DEV.	IRAN
	ABB	W.EUROPE
	AMPO S.COOP. (POYAM VALVES)	SPAIN
	AZBIL CORPORATION	JAPAN
	DRESSER	UK / W.EUROPE
	EMERSON	UK / W.EUROPE
	FG VALVOLE SRL	ITALY
	GREEN CONTROL srl	ITALY
	KTM	JAPAN
	MALBRANQUE (VALCO GROUP)	FRANCE
	METSO FLOW CONTROL (INTERNATIONAL)	FINLAND
	NIHON KOSO CO. LTD	JAPAN
	RMT VALVOMECCANICA S.R.L	ITALY
	SAMSON	GERMANY
	S&S VALVE Co. LTD	SOUTH KOREA
	TYCO	JAPAN
	VECTOR & WELLHEADS SL(VECTOR VALVES)	ITALY
	WEIR VALVE & CONTROL	UK
3.4.35- ON/OFF VALVE (GATE)		
	MIRAB	IRAN
	RASTA GROUP INDUSTRIAL VALVE MFG & DEV.	IRAN
	TASISAT BOKHARE ESFAHAN	IRAN
	AMPO S.COOP. (POYAM VALVES)	SPAIN
	ASAHI	JAPAN
	FG VALVOLE SRL	ITALY
	GREEN CONTROL srl	ITALY
	KOPECS CO. LTD	SOUTH KOREA
	LVF S.P.A.	ITALY
	MALBRANQUE(VALCO GROUP)	FRANCE
	MOTOYAMA	JAPAN
	S&S VALVE Co. LTD	SOUTH KOREA
	VECTOR & WELLHEADS SL(VECTOR VALVES)	ITALY
	WEIR VALVE & CONTROL	UK
3.4.36- BOTTOM TANK VALVE		
	BEHBOOD FARAYAND RADMAN	IRAN
	GUICHON VALVES(VALCO GROUP)	FRANCE
	METSO FLOW CONTROL (INTERNATIONAL)	FINLAND
	RITAGE	GERMANY
	SCHUF ARMATUREN & APPARATEBAU GmbH	GERMANY
	STRAHMAN VALVES FRANCE	FRANCE
3.4.37- PNEUMATIC / HYDROLIC ACTUATOR		
	ATRONIC KISH(Only Pneumatic Actuator)	IRAN
	BADRAN	IRAN
	BEHBOOD FARAYAND RADMAN	IRAN
	BORNA SANAT TOOS	IRAN
	PADIDEH ENERGY PARSIAN (PEPCO)	IRAN
	RASTA GROUP INDUSTRIAL VALVE MFG & DEV.	IRAN
	SADRA MAHAN PARSIAN(Only Pneumatic Actuator)	IRAN
	ABB	W. EUROPE
	ARCA REGLER GMBH	GERMANY
	BETTIS	CANADA
	BIFFI	W.EUROPE
	BRAY CONTROLS	UK
	DAEJU CONTROL CO.	SOUTH KOREA
	DVG AUTOMATION SPA.	ITALY
	EL-O-MATIC	UK
	GUICHON VALVES(VALCO GROUP)	FRANCE
	HKC CO. LTD	SOUTH KOREA
	KOPECS CO. LTD	SOUTH KOREA
	KOREA MOTOYAMA Inc. (KOMOTO)	SOUTH KOREA
	LIMITORQUE	UK / W.EUROPE

COMPANY NAME	ORIGIN
MALBRANQUE(VALCO GROUP)	FRANCE
METSO FLOW CONTROL (INTERNATIONAL)	FINLAND
NIHON KOSO CO. LTD	JAPAN
OMAL S.P.A	ITALY
OVERSEAS ENGINEERING AM	SWITZERLAND
PALADON SYSTEMS LTD.	UK
PRO CONTROL S.R.L	ITALY
QUIFER ACTUATORS S.L	SPAIN
ROTORK	UK
SERVOVALVE	ITALY
S&S VALVE Co. LTD	SOUTH KOREA
STRAHMAN VALVES FRANCE	FRANCE
SUNGDO CO. LTD	SOUTH KOREA
TRUTORQ ITALIA SRL	ITALY
TYCO	JAPAN
UNICON CO. LTD	SOUTH KOREA
UNIFLO Co. Ltd.	SOUTH KOREA
VECTOR & WELLHEADS ENGINEERING	SPAIN
WALDEMAR PRUSS ARMATURENFABRIK GmbH	GERMANY

3.4.38- ELECTRICAL ACTUATOR

BADRAN	IRAN
NEGARESH RAYANEH POOYA (RAYATORK)*	IRAN
ARI-ARMATUREN ALBERT RICHTER GmbH&Co.KG	GERMANY
AUMA	GERMANY
BRAY CONTROLS	UK
ENERTORK LTD	SOUTH KOREA
HKC CO. LTD	SOUTH KOREA
L.BERNARD	FRANCE
METSO FLOW CONTROL (INTERNATIONAL)	FINLAND
NIHON KOSO CO. LTD	JAPAN
OMAL S.P.A	ITALY
PALADON SYSTEMS LTD.	UK
PRO CONTROL S.R.L	ITALY
WALDEMAR PRUSS ARMATURENFABRIK GmbH	GERMANY

* "Only for a period of 2 years"

3.4.39- FILTER REGULATOR

BADRAN	IRAN
PARS REGULATOR	IRAN
RASTA GROUP INDUSTRIAL VALVE MFG & DEV.	IRAN
SANAYE HAVAYE FESHORDEH	IRAN
AZBIL CORPORATION	JAPAN
DRESSER	UK / W.EUROPE
DRUVA	GERMANY
EMERSON	UK / W.EUROPE
NIHON KOSO CO. LTD	JAPAN
PARKER	UK
PETROVALVE	ITALY
SAMSON	GERMANY
SHOKETSU	JAPAN
SPRIANO TECHNOLOGIES SRL (TERANOVA GROUP)	ITALY
TYCO	JAPAN

3.4.40- SOLENOID VALVE

ALPHA	ITALY
ASCO / JOUCOMATIC	GERMANY / W.EUROPE
BINDURGE	ITALY
BOSCH	GERMANY
BURKERT	GERMANY
FESTO	GERMANY

<u>COMPANY NAME</u>	<u>ORIGIN</u>
HERION	GERMANY
METSO FLOW CONTROL (INTERNATIONAL)	FINLAND
PARKER	UK / JAPAN
REX - ROTH	GERMANY
THOMPSON VALVE	UK
3.4.41- PROXIMITY SWITCH	
TABRIZ PEJOUH	IRAN
PARS ELECTRONIC KISH	IRAN
ASCO	GERMANY
AUTONIC	KOREA
EMKOMETER	CZECH
FESTO	GERMANY
HONEY WELL	BELGIUM
IFM ELECTRONICS	GERMANY
OMRON	JAPAN
PEPPERL & FUCHS	GERMANY
3.4.42- PIG DETECTOR	
PADIDEH ENERGY PARSIAN (PEPCO)*"Only Piezoelectric Method"	IRAN
SAVAY	IRAN
3.4.43- VALVE LOCKING DEVICE	
CAMERON FRANCE SA	FRANCE
FLOWERVE AHAUS GMBH	GERMANY
NETHERLOCKS (SOFIS GROUP)	NETHERLANDS
SMITH FLOW CONTROL LTD.	UK
VOMOX INTL GMBH	GERMANY
WEIR VALVES & CONTROLS	UK
3.4.44- N2 BLANKETING SYSTEM	
EMERSON	UK / FRANCE
FDC LIMITED COMPANY	SOUTH KOREA
PREUSSAG	GERMANY
SAVAL	THE NETHERLANDS
3.4.45- MASS FLOWMETER (CORIOLIS TYPE)	
BOPP & REUTHER	GERMANY
EMERSON	UK
ENDRESS & HAUSER	GERMANY
HONEYWELL	W.EUROPE
KROHNE	GERMANY
KOBOLD	W.EUROPE
OVAL	JAPAN
YOKOGAWA	JAPAN
3.4.46- MASS FLOWMETER (THERMAL TYPE)	
BAILEY	UK
EMERSON	JAPAN / THE NETHERLANDS
ENDRESS & HAUSER	GERMANY
KOBOLD	W.EUROPE

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
3.4.47- <i>ULTRASONIC FLOWMETER</i>		
3.4.47.1- <i>ULTRASONIC FLOWMETER (LIQUID)</i>		
	EMKOMETER	CZECH
	FAURE HERMAN	FRANCE
	FUJI	JAPAN
	METERING & TECHNOLOGY SAS (M&T)	FRANCE
3.4.47.2- <i>ULTRASONIC FLOWMETER (GAS)</i>		
	EMKOMETER	CZECH
	FUJI	JAPAN
	INSTRUMENT	THE NETHERLANDS
	SICK	GERMANY
3.4.47.3- <i>FLOW COMPUTER</i>		
	PARS ELECTRONIC KISH	IRAN
	EMERSON	UK
	ENDRESS & HAUSER	GERMANY
	FLUIDWELL BV	NEDERLANDS
	KROHNE	GERMANY
	OVAL	JAPAN
	YOKOGAWA	JAPAN
	SPRIT IT	THE NETHERLANDS
3.4.48- <i>MAGNETIC FLOWMETER</i>		
	ASA srl	ITALY
	AZBIL CORPORATION	JAPAN
	BOPP & REUTHER	W.EUROPE
	EMERSON	UK / FRANCE
	EMKOMETER	CZECH
	ENDRESS & HAUSER	GERMANY
	FUJI	JAPAN / FRANCE
	KROHNE	GERMANY
	KOBOLD	W.EUROPE
	SIEMENS	GERMANY
	YOKOGAWA	JAPAN
3.4.49- <i>VORTEX FLOWMETER</i>		
	BOPP REUTHER	GERMANY
	DELTA CONTROLS LIMITED	UK
	EMERSON	UK / FRANCE
	HONTZSCH	GERMANY
	KROHNE	GERMANY
	OVAL	JAPAN
	YOKOGAWA	JAPAN
3.4.50- <i>POSITIVE DISPLACEMENT METER</i>		
	AUSTRIA	ITALY
	AZBIL CORPORATION	JAPAN
	BOPP & REUTHER	W.EUROPE
	EMERSON	UK / FRANCE
	EMKOMETER	CZECH
	OVAL	JAPAN
	SIEMENS	GERMANY
	SMITH	UK

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
3.4.51- TURBINE METER		
	ABFAR (For Water)	IRAN
	AUSTRIA	ITALY
	BOPP & REUTHER	W.EUROPE
	EMERSON	UK / FRANCE
	FAURE HERMAN	FRANCE
	METERING & TECHNOLOGY SAS (M&T)	FRANCE
	OVAL	JAPAN
	SCHLUMBERGER	FRANCE
	SMITH	UK
3.4.52- ROTAMETER		
	AZMOON MOTAMAM	IRAN
	ASA srl	ITALY
	BOPP& REUTHER	UK
	DOHKITA	JAPAN
	EMERSON	UK / FRANCE
	EMKOMETER	CZECH
	KOBOLD	W.EUROPE
	KROHNE	GERMANY
	RYUKAI	JAPAN
	WISE CONTROL INC.	SOUTH KOREA
	YOKOGAWA	JAPAN
3.4.53- BULK FLOWMETER		
	BERTHOLD TECHNOLOGIES	GERMANY
3.4.54- FLOW SWITCH		
	DELTA CONTROLS LIMITED	UK
	EMERSON	UK / FRANCE
	EMKOMETER	CZECH
	KOBOLD	GERMANY
	KROHNE	GERMANY
	PHONIX & KSR KUEBLER (WIKA GROUP)	GERMANY
3.4.55- ORIFICE PLATE		
	AZMOON MOTAMAM	IRAN
	PARS ELECTRONIC KISH	IRAN
	PARS JAHD	IRAN
	PETRO DEGHAH PART	IRAN
	SANGAN SANAT	IRAN
	SINA CONTROL	IRAN
	DELTAFLUID	FRANCE
	EISPA	SPAIN
	EMERSON	UK / FRANCE
	EMKOMETER	CZECH
	EUROMOSURE (WIKA GROUP)	GERMANY
	INT S.R.L.	ITALY
	OKAZAKI	JAPAN
	SAMIL INDUSTRY CO.	SOUTH KOREA
	SPRIANO TECHNOLOGIES SRL (TERANOVA GROUP)	ITALY
	TERCOM	ITALY
	WISE CONTROL INC.	SOUTH KOREA
3.4.56- VENTURI TUBE AND NOZZLE		
	PARS JAHD	IRAN
	SINA CONTROL	IRAN
	BARTHEL	GERMANY
	DELTAFLUID	FRANCE
	EMERSON	UK / FRANCE
	EMKOMETER	CZECH
	EUROMOSURE (WIKA GROUP)	GERMANY
	INT S.R.L.	ITALY
	SAMIL INDUSTRY CO.	SOUTH KOREA
	SPRIANO TECHNOLOGIES SRL (TERANOVA GROUP)	ITALY
	WISE CONTROL INC.	SOUTH KOREA
	TECNOMATIC	ITALY

* For custody transfer applications and the same by Iranian Vendors, Refer to "Office of Supervision on Oil Exports" List. (www.mop.ir)

<i>COMPANY NAME</i>	<i>ORIGIN</i>
3.4.57- ANNUBAR	
AZMOON MOTAMAM	IRAN
PARS JAHD	IRAN
ABB	W.EUROPE
BUSH BEACH ENGINEERING	UK
DELTAFLUID	FRANCE
EMERSON	UK / FRANCE
EMKOMETER	CZECH
EUROMOSURE (WIKA GROUP)	GERMANY
INT S.R.L.	ITALY
SPRIANO TECHNOLOGIES SRL (TERANOVA GROUP)	ITALY
TERCOM	ITALY
YOKOGAWA	JAPAN

3.4.58- PRESSURE & TEMPERATURE GAUGE	
FARAYAND LAKSAR / RUEGER	IRAN / SWITZERLAND
PARS ELECTRONIC KISH	IRAN
PARS JAHD	IRAN
SANGAN SANAT	IRAN
SCHMIERER PARS / SCHMIERER	IRAN / GERMANY
ASHCROFT	UK
BADOTHERM	THE NETHERLANDS
BOURDON	FRANCE
DELTA CONTROLS LIMITED	UK
ELFAB HUGHES	UK
ETTORE CELLA	ITALY
NOUVA FIMA	ITALY
REGULATEURS GEORGIN	FRANCE
SPRIANO TECHNOLOGIES SRL (TERANOVA GROUP)	ITALY
STEWARTS	UK
STIKO MEETAPPARATENFABRIEK BV	NETHERLANDS
WIKA ALEXANDER WIEGAND SE&CO	GERMANY
WISE CONTROL INC.	SOUTH KOREA

3.4.59- PRESS. & TEMP SWITCH	
PARS ELECTRONIC KISH	IRAN
ASHCROFT	UK
BETA	THE NETHERLANDS
CELLA (WIKA GROUP)	GERMANY
DELTA CONTROLS LIMITED	UK
HERION	GERMANY
REGULATEURS GEORGIN	FRANCE
UNITED ELECTRIC	W.EUROPE
WIEGAND	GERMANY
WIKA ALEXANDER WIEGAND SE&CO	GERMANY
WISE CONTROL INC.	SOUTH KOREA

3.4.60- PRESS. & DIFFERENTIAL PRESS. TRANSMITTER	
PARS ELECTRONIC KISH *	IRAN
PARS JAHD	IRAN
ABB	W.EUROPE
AZBIL CORPORATION	JAPAN
DELTA CONTROLS LIMITED	UK
EMERSON	UK / FRANCE
EMKOMETER	CZECH
ENDRESS & HAUSER	GERMANY
FUJI	JAPAN
HONEYWELL	BELGIUM
REGULATEURS GEORGIN	FRANCE
SAKURA ENDRESS	JAPAN
SIEMENS	GERMANY
SMAR	BRAZIL
SPRIANO TECHNOLOGIES SRL (TERANOVA GROUP)	ITALY
WIKA ALEXANDER WIEGAND SE&CO	GERMANY
YOKOGAWA	JAPAN

* Without SIL Certificate

3.4.61- T/C, RTD & WELLS	COMPANY NAME	ORIGIN
	ATBIN	IRAN
	FARAYAND LAKSAR / RUEGER	IRAN / SWITZERLAND
	PARS ELECTRONIC KISH	IRAN
	PARS JAHD	IRAN
	DELTA CONTROLS LIMITED	UK
	DELTAFLUID	FRANCE
	EISPA	SPAIN
	EMERSON	UK / FRANCE
	EMKOMETER	CZECH
	ENDRESS & HAUSER	GERMANY
	EUROMOSURE (WIKI GROUP)	GERMANY
	FUJI	JAPAN
	INT SRL	ITALY
	NAGANO	JAPAN
	NILGATA	JAPAN
	PYRO CONTROLE SAS.	FRANCE
	REGULATEURS GEORGIN	FRANCE
	SINA PARDAZ APADANA(SIPNACO)	IRAN
	STIKO MEETAPPARATENFABRIEK BV	NETHERLANDS
	THERMO ELECTRIC	UK
	WIKI ALEXANDER WIEGAND SE&CO	GERMANY
	WISE CONTROL INC.	SOUTH KOREA

3.4.62- TEMPERATURE TRANSMITTER		
	PARS ELECTRONIC KISH *	IRAN
	PARS JAHD	IRAN
	ABB	W.EUROPE
	AZBIL CORPORATION	JAPAN
	DELTA CONTROLS LIMITED	UK
	EMERSON	UK / FRANCE
	EMKOMETER	CZECH
	ENDRESS & HAUSER	GERMANY
	FLUIDWELL BV	NETHERLANDS
	FOXBORO	UK
	FUJI	JAPAN
	HONEYWELL	BELGIUM
	REGULATEURS GEORGIN	FRANCE
	SAKURA ENDRESS	JAPAN
	SIEMENS	GERMANY
	SMAR	BRAZIL
	SPRIANO TECHNOLOGIES SRL (TERANOVA GROUP)	ITALY
	WIKI ALEXANDER WIEGAND SE&CO	GERMANY
	YOKOGAWA	JAPAN
	* Without SIL Certificate	

3.4.63- FIELD INDICATOR		
	PARS ELECTRONIC KISH	IRAN
	DELTA CONTROLS LIMITED	UK
	EMKOMETER	CZECH
	FLUIDWELL BV	NETHERLANDS
	GEROEGIN	FRANCE
	SMAR	BRAZIL
	VEGA	GERMANY
	WIKI ALEXANDER WIEGAND SE&CO	GERMANY

3.4.64- JUNCTION BOX		
3.4.64.1- EX. -JUNCTION BOX		
	DARIAN	IRAN
	MASHIN SAZI SHOMAL PIROOZ	IRAN
	CHALMIT	UK
	COPER CROUSE-HINDS (CEAG)	GERMANY
	CORTEM SPA	ITALY
	HAWKE	UK
	NUOVA	ITALY
	ROSE SYSTEMTECHNIK GmbH	GERMANY
	SABER	ITALY
	SCAME PARRE	ITALY

STAHL

GERMANY

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
3.4.64.2- INDUSTRIAL - JUNCTION BOX		
	GOLNOOR	IRAN
	MASHIN SAZI SHOMAL PIROOZ	IRAN
	NOUR MEHVAR FARS	IRAN
	PAJOHAN SANAT PARS	IRAN
	ROSE SYSTEMTECHNIK GmbH	GERMANY
	SCAME PARRE	ITALY
3.4.65- CABLE GLAND		
	DARIAN	IRAN
	MASHIN SAZI SHOMAL PIROOZ	IRAN
	TAVAN OMRAN SANAT E SAMANEH	IRAN
	BICC	UK
	HAWKE	UK
	NUOVA	ITALY
	STAHL	GERMANY
3.4.66- INSTRUMENT CABLE		
	KABLE ALBORZ*	IRAN
	KABLE KERMAN & KAVIYAN*	IRAN
	KABL SAZI IRAN*	IRAN
	KABL SAZI TAK*	IRAN
	KABLE SHAHIN*	IRAN
	KABLE SINA*	IRAN
	KERMAN ZAR CABLE*	IRAN
	RASANA KABLE*	IRAN
	SIMIA *	IRAN
	SIM VA KABL ABHAR*	IRAN
	SIM VA KABL MOGHAN*	IRAN
	SIMBAF*	IRAN
	SIMCO*	IRAN
	ZARSIM*	IRAN
	AEG	GERMANY
	BICC	UK
	CABLE DE LYON	FRANCE
	LEONI KERPEN	GERMANY
	NEXANS (ALCATEL)	FRANCE
	SIEMENS	GERMANY
	TECNIKABLE S.P.A	ITALY
	* ONLY ANALOGUE & DIGITAL CABLES	
3.4.67- CABLE TRAY / LADDER		
	AJINEH	IRAN
	FARAMIN TABLO	IRAN
	PAJOHAN SANAT PARS	IRAN
	PANJTASH	IRAN
	SATEHA	IRAN
	TOSEH SANAYE PETRO FOOLADE GHARB	IRAN
	VANASHID	IRAN
	YEKTA	IRAN

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
3.4.68- INSTRUMENT VALVE		
	MACHIN SAZI NEEV	IRAN
	PETRO ARTAN PART	IRAN
	ARMATURENFABRIK FRANZ SCHNEIDER(AS-SCHNEIDER)	GERMANY
	DELTA CONTROLS LIMITED	UK
	DELTAFLUID	FRANCE
	DK-LOK CORPORATION	SOUTH KOREA
	EMERSON	UK / FRANCE
	FG VALVOLE SRL	ITALY
	HANSUN ENGINEERING CO. LTD.	SOUTH KOREA
	HSME CORPORATION	SOUTH KOREA
	KEYSTONE	UK
	METLOK E KISH	IRAN
	OLIVER VALVE	W.EUROPE
	OMAL S.P.A	ITALY
	PARKER	UK
	REGULATEURS GEORGIN	FRANCE
	VIMEC	W.EUROPE
	WIKI ALEXANDER WIEGAND SE&CO	GERMANY
3.4.69- DECOKE & CRACKED GAS VALVE		
	STRAHMAN VALVES	FRANCE

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
3.4.70- INSTRUMENT TUBE & FITTING		
	AJIR	IRAN
	ALL METAL	IRAN
	LOOLEHAYE DAGHIGHE KAVEH	IRAN
	MACHIN SAZI NEEV	IRAN
	METLOK F KISH	IRAN
	PARS REGULATOR	IRAN
	PETRO ARTAN PART	IRAN
	SANAYE HAVAYE FESHORDEH	IRAN
	TOOS PEYVAND	IRAN / UK
	CAPITAL VALVE	UK
	DK-LOK CORPORATION	SOUTH KOREA
	FITOK	USA
	FESTO	GERMANY
	GYROLOCK	UK
	HANSUN ENGINEERING CO. LTD.	SOUTH KOREA
	HOKE	UK
	HSME CORPORATION	SOUTH KOREA
	JANDUIC	ITALY
	MANNESMAN	GERMANY
	MID STEEL PIPELINE	UK
	PARKER	UK
	ROTAREX	LUXEMBURG
	SWAGELOCK	GERMANY
3.4.71- SPECIAL VALVES		
	FG VALVOLE SRL	ITALY
	GUICHON VALVES(VALCO GROUP)	FRANCE
	SCHUF ARMATUREN & APPARATEBAU GmbH	GERMANY
	STRAHMAN VALVES	FRANCE
3.4.72- VIBRATION PROBE		
	SINA PARDAZ APADANA(SIPNACO)	IRAN
3.4.73- CONTROL VALVE (AXIAL)		
	FG VALVOLE SRL	ITALY
	GOODWIN INTERNATIONAL LTD	UK
3.4.74- ON/OFF VALVE (AXIAL)		
	FG VALVOLE SRL	ITALY
	GOODWIN INTERNATIONAL LTD	UK



4- TELECOMMUNICATION

4. TELECOMMUNICATION

4. TELECOMMUNICATION

4.1- TRANSMISSION SYSTEM & ACCESSORIES

4.1.1- FIBER OPTIC & CABLE ACCESSORIES

4.1.2- COPPER CABLE

4.1.3- TRANSMISSION EQUIPMENT & ACCESSORIES

4.1.3.1- OPTICAL BASED SYSTEM

4.1.3.2- SDH SYSTEM

4.1.3.3- COPPER WIRE BASED SYSTEM

4.1.3.4- RADIO BASED SYSTEM

4.1.4- PULSE CODE MODULATION (PCM) SYSTEM & INTEGRATOR

4.1.4.1- PULSE CODE MODULATION (PCM) SYSTEM & INTEGRATOR

4.1.4.2- PULSE CODE MODULATION (PCM) SYSTEM

4.1.5- COMMUNICATION TOWER STRUCTURE

4.2- SWITCH SYSTEM & INTEGRATOR

4.2.1- SWITCH SYSTEM INTEGRATOR

4.2.2- SWITCH SYSTEM

4.3- RADIO SYSTEM & INTEGRATOR

4.3.1- RADIO SYSTEM INTEGRATOR

4.3.2- FIXED SYSTEM

4.3.3- MOBILE SYSTEM

4.3.4- HAND SET SYSTEM

4.3.5- REPEATER SYSTEM

4.4- INTERCOM PAGING/PUBLIC ADDRESS & INTEGRATOR

4.4.1- INTERCOM PAGING/PUBLIC ADDRESS INTEGRATOR

4.4.2- INDUSTRIAL

4.4.3- NON INDUSTRIAL

4.4.4- CONFERENCE SYSTEM

4.4.5- EXPLOSION PROOF

4.5- CCTV

4.5.1- CCTV SYSTEM (FIX & PC BASE) INTEGRATOR

4.5.1.1- SECURITY

4.5.1.2- NON SECURITY

4.5.2- CCTV EQUIPMENT

4.5.2.1- MONITORING EQUIPMENT

4.5.2.2- CAMERA

4.5.2.3- VMS (VIDEO MANAGEMENT SOFTWARE)

4.6- TELEPHONE SYSTEM

4.6.1- EXPLOSION PROOF TELEPHONE SET

4.6.2- INDUSTRIAL TELEPHONE SET

4.6.3- OFFICE TELEPHONE SET

4.6.4- FAX SYSTEM

4.6.5- CENTRAL AND IP PHONE/PABX SYSTEM

4.6.6- TELEPHONE SYSTEM INTEGRATOR

4.7- NETWORK SWITCH

4.8- ETHERNET SWITCH

COMPANY NAME

ORIGIN

4.1- TRANSMISSION SYSTEM & ACCESSORIES

4.1.1- FIBER OPTIC CABLE & ACCESSORIES

KABLE RAFSANJAN	IRAN
KABLE SHAHID QANDI YAZD	IRAN
ALCATEL	FRANCE
BELDEN	FRANCE / UK / GERMANY
BRUGG	SWITZERLAND
DEDICATED NETWORK PARTNERS OY (DNWP)	FINLAND
FUJIKURA	JAPAN
N.K.F.	NETHERLANDS
PIRELLI	ITALY
R & M	SWITZERLAND
SIEMENS	GERMANY

4.1.2- COPPER CABLE

KABL SAZI IRAN	IRAN
KABLE ABHAR	IRAN
KABLE ALBORZ	IRAN
KABLE KERMAN	IRAN
KABLE RAFSANJAN	IRAN
KABLE SHAHID QANDI YAZD	IRAN
KARKHANEJAT KABLSAZI TAK	IRAN
MOGHAN CABLE	IRAN
OFOGHE ALBORZ CABLE	IRAN
SIMBAF	IRAN
SIMCO	IRAN
SIMIA	IRAN
SIM VA CABLE MASHAD	IRAN

4.1.3- TRANSMISSION EQUIPMENT & ACCESSORIES

4.1.3.1- OPTICAL BASED SYSTEM

PARSTEL	IRAN
DEDICATED NETWORK PARTNERS OY (DNWP)	FINLAND
ERICSSON	SWEDEN
WESTERMO TELEINDUSTRI AB	SWEDEN

4.1.3.2- SDH SYSTEM

DEDICATED NETWORK PARTNERS OY (DNWP)	FINLAND
ERICSSON	SWEDEN
NEC	JAPAN

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
4.1.3.3- COPPER WIRE BASED SYSTEM		
	PARSTEL	IRAN
	DEDICATED NETWORK PARTNERS OY (DNWP)	FINLAND
	ERICSSON	SWEDEN
	NEC	JAPAN
	SIEMENS	GERMANY
	WESTERMO TELEINDUSTRI AB	SWEDEN
4.1.3.4- RADIO BASED SYSTEM		
	PARSTEL	IRAN
	ERICSSON	SWEDEN
	NEC	JAPAN
	SIEMENS	GERMANY
	WESTERMO TELEINDUSTRI AB	SWEDEN
4.1.4- PULSE CODE MODULATION (PCM) SYSTEM & INTEGRATOR		
4.1.4.1- PULSE CODE MODULATION (PCM) SYSTEM & INTEGRATOR		
TO BE ADVISED LATER		
4.1.4.2- PULSE CODE MODULATION (PCM) SYSTEM		
	SANAYE ERTEBATI PAYA	IRAN
	SANAYE GHATAATE ELECTRONIC	IRAN
4.1.5- COMMUNICATION TOWER STRUCTURE		
	ANTEN KAR	IRAN
	AVANGAN	IRAN
	MICRO MOJ	IRAN
	SANAYE BONYAD POSHESH	IRAN
	SANAYE ELECTRONIC IRAN	IRAN
	SANAYE ERTEBATI ZAEIM	IRAN
	SANAYE MOKHABERATI IRAN (ITMC)	IRAN
	TAKTA	IRAN
	ANDREW SRL	ITALY
	TAIT	NEW ZALAND
4.2- SWITCH SYSTEM & INTEGRATOR		
4.2.1- SWITCH SYSTEM INTEGRATOR		
	OPTILAN	UK
	TELEFONSAZAN YAZD	IRAN

4.2.2- SWITCH SYSTEM	<u>COMPANY NAME</u>	<u>ORIGIN</u>
	DIGITRON	IRAN
	KARA TELEPHONE	IRAN
	PARS TELEPHONE KAR	IRAN
	SANAYE ERTEBATI PAYA (KARIN)	IRAN
	SANAYE ELECTRONIC IRAN	IRAN
	SANAYE ERTEBATI RAHE DOOR	IRAN
	SANAYE MOKHABERATI IRAN (ITMC)	IRAN
	ALCATEL	FRANCE
	ERICSSON	SWEDEN
	MITEL	CANADA
	NEC	JAPAN
	PANASONIC	JAPAN
	SIEMENS	GERMANY
	TRANSTEL	UK

4.3- RADIO SYSTEM & INTEGRATOR

4.3.1- RADIO SYSTEM INTEGRATOR

SANAYE ELECTRONIC IRAN	IRAN
SANAYE ERTEBATI RAHE DOOR	IRAN
SANAYE ERTEBATI ZAEIM	IRAN
OPTILAN	UK

4.3.2- FIXED SYSTEM

TO BE ADVISED LATER.

4.3.3- MOBILE SYSTEM

ALCATEL	FRANCE
ERICSSON	SWEDEN
MOTOROLA	UK / JAPAN
NOKIA	FINLAND/CHINA
TAIT	NEW ZEALAND

4.3.4- HAND SET SYSTEM

ALCATEL	FRANCE
ERICSSON	SWEDEN
FUJITSU	JAPAN
MARCONI	UK
MOTOROLA*	UK / JAPAN
NEC	JAPAN
NOKIA	FINLAND/CHINA
NTT DOCOMO	JAPAN
OTE*	ITALY
SIAE	ITALY
SIEMENS	GERMANY
TAIT*	NEW ZEALAND

* VENDORS PRODUCING INTRINSICALLY SAFE SET AS WELL AS NORMAL SET.

COMPANY NAME

ORIGIN

4.3.5- REPEATER SYSTEM

SANAYE ELECTRONIC IRAN	IRAN
SANAYE ERTEBATI RAHE DOOR (ITI)	IRAN
SANAYE ERTEBATI ZAEIM	IRAN
ALCATEL	FRANCE
ERICSSON	SWEDEN
MARCONI	UK / ITALY
MOTOROLA	UK / JAPAN
OTE	ITALY
ROHDE & SCHWARZ	GERMANY
ROHILL	NETHERLANDS

4.4- INTERCOM PAGING/PUBLIC ADDRESS & INTEGRATOR

4.4.1- INTERCOM PAGING/PUBLIC ADDRESS INTEGRATOR

ALAST ELECTRONIC POOYA	IRAN
ECHOCHANG	IRAN
HORAND	IRAN
NARFOAMKAR	IRAN
SARIAK	IRAN
OPTILAN	UK
ZIZTEL LIMITED	UK

4.4.2- INDUSTRIAL

INDUSTRONIC	GERMANY
IWATSU	JAPAN
NEUMANN	ITALY
PROCOM	GERMANY
ZIZTEL LIMITED	UK

4.4.3- NON INDUSTRIAL

ZIZTEL LIMITED	UK
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4.4.4- CONFERENCE SYSTEM

HORAND	IRAN
PANASONIC	JAPAN
PHILIPS	NETHERLANDS
SONY	JAPAN
TELEVIC	SWITZERLAND
ZIZTEL LIMITED	UK

4.4.5- EXPLOSION PROOF

INDUSTRONIC	GERMANY
INTEL	ITALY
IWATSU	JAPAN
NEUMANN	ITALY
PROCOM	GERMANY
ZIZTEL LIMITED	UK

COMPANY NAME

ORIGIN

4.5- CCTV

4.5.1- CCTV SYSTEM (FIX & PC BASE) INTEGRATOR**

4.5.1.1- SECURITY

ADISH ELECTRONIC	IRAN
ALAST ELECTRONIC POOYA	IRAN
ALKA PARDAZ TABRIZ	IRAN
ARDAL	IRAN
DENA SANAT	IRAN
FAN AVARAN TASVIR	IRAN
GITA VARZ	IRAN
MICRO NARM AFZAR	IRAN
NARFOAMKAR	IRAN
OFOGH ROSHAN DENA	IRAN
OPTILAN	UK
RAH AVARD ELECTRONIC	IRAN
RAH ROSHD	IRAN
SHAR NOOR	IRAN
SANAYE ELECTRONIC ZAIEM	IRAN
SA IRAN	IRAN
SANAYE ELECTRONIC OPTIC ESFAHAN	IRAN
VIDA ELECTRONIC	IRAN

4.5.1.2- NON SECURITY

AFRIZ FARAYAND	IRAN
ALAST ELECTRONIC POOYA	IRAN
DENA SANAT	IRAN
NARFOAMKAR	IRAN
OFOGHE ROSHAN DENA	IRAN
PATSA	IRAN
RAH ROSHD	IRAN
SANAYE ERTEBATI ZAEIM	IRAN
SANAYE ELECTRONIC IRAN	IRAN
SANAYE OPTIC ESFAHAN	IRAN
SARYAK	IRAN
INTEL	ITALY
HERNIS	NORWAY
OPTILAN	UK
PANASONIC	JAPAN
SYNECTIC SYSTEM GROUP LTD	UK

4.5.2- CCTV EQUIPMENT

4.5.2.1- MONITORING EQUIPMENT

PANASONIC	JAPAN/MALAYSIA
SIEMENS	GERMANY
SONY	JAPAN/MALAYSIA
SYNECTIC SYSTEM GROUP LTD	UK

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
4.5.2.2- CAMERA		
	IQEYE	USA
	PANASONIC	JAPAN/MALAYSIA
	SIEMENS	GERMANY
	SONY	JAPAN/MALAYSIA
	SPARK LAN	USA/TAIWAN
	SYNECTIC SYSTEM GROUP LTD	UK

4.5.2.3- VMS (VIDEO MANAGEMENT SOFTWARE)
TO BE ADVISED LATER

4.6- TELEPHONE SYSTEM

4.6.1- EXPLOSION PROOF TELEPHONE SET

DAC	UK
FERNSIG	GERMANY
LELAS	FRANCE
MITLE TELECOM.	UK
NEUMANN ELECTRONIC	GERMANY
NEC GROUP	JAPAN
S.A.EQUIPMENT	UK
SIEMENS	GERMANY
ZIZTEL LIMITED	UK

4.6.2- INDUSTRIAL TELEPHONE SET

DAC	UK
FERNSIG	GERMANY
LELAS	FRANCE
MITLE TELECOM.	UK
NEUMANN ELECTRONIC	GERMANY
NEC GROUP	JAPAN
S.A.EQUIPMENT	UK
SIEMENS	GERMANY
ZIZTEL LIMITED	UK

4.6.3- OFFICE TELEPHONE SET

SANAYE ERTEBATI PAYA	IRAN
SANAYE ELECTRONIC IRAN	IRAN
ALCATEL	FRANCE
SIEMENS	GERMANY
PANASONIC	JAPAN

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
4.6.4- FAX SYSTEM		
	EPSON	JAPAN
	HP	USA
	PANASONIC	JAPAN
	PHILIPS	NETHERLANDS
	RICO	JAPAN
	SHARP	JAPAN
4.6.5- CENTRAL AND IP PHONE/PABX SYSTEM		
	AVA COMMUNICATION	IRAN
	ERICSSON	SWEDEN
	PANASONIC	JAPAN
	SIEMENS	GERMANY
4.6.6- TELEPHONE SYSTEM INTEGRATOR		
	ALAST ELECTRONIC POOYA	IRAN
	OPTILAN	UK
4.7- NETWORK SWITCH		
	3COM	USA
	BELDEN	USA
	D-LINK	USA
	SISCO	USA
	WESTERMO TELEINDUSTRI AB	SWEDEN
4.8- ETHERNET SWITCH		
	HIRCHAMANN	GERMANY
	WESTERMO TELEINDUSTRI AB	SWEDEN



5- HSEQ

5. HSEQ EQUIPMENT

5.1. HEALTH

- 5.1.1. ELECTROMAGNETIC FIELD ANALYZER
- 5.1.2. SOUND LEVEL METER
- 5.1.3. LUXMETER
- 5.1.4. WET BULB GLOBE TEMPERATURE (WBGT)
- 5.1.5. DUST MONITOR
- 5.1.6. GAS AND VAPOUR DETECTOR
- 5.1.7. UV AND IR RADIATION DETECTOR
- 5.1.8. IONIZED RADIATION DETECTOR
- 5.1.9. FIT TEST FOR BREATHING MASK
- 5.1.10- POTABLE WATER QC EQ.
- 5.1.10.1- MICROBIOLOGY

5.2. SAFETY & FIRE FIGHTING

- 5.2.1- FIXED EQUIPMENT
 - 5.2.1.1- WATER SPRAY, SPRINKLER SYSTEM
 - 5.2.1.2- FOAM SYSTEM
 - 5.2.1.3- WATER SUPPLY (HYDRANTS , MONITORS & REELS)
 - 5.2.1.3.1- POST INDICATOR VALVE
 - 5.2.1.3.2- SELF OSCILLATING MONITOR
 - 5.2.1.4- FIRE FIGHTING PUMP
 - 5.2.1.5- FIRE BOX
 - 5.2.1.6- GAS DETECTOR SYSTEM
 - 5.2.1.7- INERT GAS (IG) & CO2 SYSTEM
- 5.2.2- PORTABLE EQUIPMENT
 - 5.2.2.1- EXTINGUISHER
 - 5.2.2.1.1- DRY POWDER / WATER
 - 5.2.2.1.2- CO2 / FOAM
 - 5.2.2.2- FIRE MONITOR
 - 5.2.2.3- PUMP FOR FIRE ENGINE

- 5.2.3- FIRE TRUCK
- 5.2.3.1- *FOAM TENDER , WATER & FOAM TENDER & TANKER*
- 5.2.3.2- *POWDER TRUCK , RESCUE TRUCK & LADDER , MULTI - PURPOSE*

- 5.2.4- GENERAL FIRE FIGHTING MATERIALS & ACCESSORIES
- 5.2.4.1- *HOSES*
- 5.2.4.2- *FITTING , COUPLING & ADAPTOR*
- 5.2.4.3- *NOZZLE*
- 5.2.4.4- *POWDER & FOAM (ONLY MAT'S)*
- 5.2.4.5- *CO2 FILLING MACHINE , HOSE BINDING MACHINE , HOSE WINDING MACHINE , BREATHING AIR COMPRESSOR AND*

5.2.5- FIRE PROOFING SYSTEM

5.2.6- RESCUE SYSTEM EQUIPMENT

5.2.7- SAFETY DEVICES

- 5.2.8- SPECIAL ITEMS
- 5.2.8.1- *FALL PROTECTION EQUIPMENT*
- 5.2.8.2- *SAFTY VESTS AND SUB SEA WORK EQ.*
- 5.2.8.3- *CHEMICAL RESISTANCE ANTI-FIRE CLOTHING*
- 5.2.8.4- *SELF CONTAIN BREATHING APPARATUS (SCBA) / AIR LINE & FILTERING*
- 5.2.8.5- *FLAME ARRESTOR*

5.3- ENVIRONMENT

- 5.3.1- AIR POLLUTION ANALYSER
- 5.3.2- STACK FLUE GAS ANALYZER
- 5.3.3- WASTE WATER PORTABLE ANALYZER
- 5.3.4- WASTE WATER AUTOMATIC SAMPLING DEVICE
- 5.3.5- WASTE WATER ON-LINE ANALYZER
- 5.3.6- SOIL POLLUTION MONITOR & ANALYZER
- 5.3.7- UNDER GROUND WATER MONITOR & ANALYZER
- 5.3.8- OIL MIST COLLECTORS

5.4- QUALITY

COMPANY NAME

ORIGIN

5.1. HEALTH

5.1.1. ELECTROMAGNETIC FIELD ANALYZER

NARFOAM KAR	IRAN
CASELLA-CEL	UK
HOLA DAY	USA / W.EUROPE

5.1.2. SOUND LEVEL METER

NARFOAM KAR	IRAN
BRUEL & KJER	DENMARK
CASELLA-CEL	UK
CASTLE	UK
CIRRUS	UK
QUEST	USA / W.EUROPE

5.1.3. LUXMETER

HAGNER	SWEDEN
TESTO AG	GERMANY

5.1.4. WET BULB GLOBE TEMPERATURE (WBGT)

CASELLA-CEL	UK
KIMO	FRANCE
QUEST	USA / W.EUROPE

5.1.5. DUST MONITOR

BGI	USA / W.EUROPE
CASELLA-CEL	UK
DRÄGER	GERMANY
MSA	USA / W.EUROPE
SKC	USA / W.EUROPE
TERMO	USA / W.EUROPE
WESTECH	USA / UK

5.1.6. GAS AND VAPOURE DETECTOR

COMPUR MONITOR	GERMANY
DRÄGER	GERMANY
GASTEC	JAPAN
GFG	GERMANY
MSA	USA / W.EUROPE
SKC	USA / W.EUROPE

5.1.7. UV AND IR RADIATION DETECTOR

HAGNER	SWEDEN
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5.1.8. IONIZED RADIATION DETECTOR

WILL BE ADVISED LATER	
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	<u>COMPANY NAME</u>	<u>ORIGIN</u>
<u>5.1.9. FIT TEST FOR BREATHING MASK</u>		
	DRÄGER	GERMANY
	FENZY	FRANCE
	MSA	USA / W.EUROPE
<u>5.1.10- POTABLE WATER OC EQ.</u>		
	HACH	USA
	ZULLIG AG	SWITZERLAND
<u>5.1.10.1- MICROBIOLOGY</u>		
	ZULLIG AG	SWITZERLAND
<u>5.2. SAFETY & FIRE FIGHTING</u>		
<u>5.2.1- FIXED EQUIPMENT</u>		
<u>5.2.1.1- WATER SPRAY, SPRINKLER SYSTEM</u>		
	ADER TANAN NAMI	IRAN
	NARFOM KAR	IRAN
	PERSIAN G.P.E	IRAN
	SAKHTAR ENERGY ZHARF	IRAN
	ANGUS FIRE LTD.	UK
	ANSUL	UK
	DELTA FIRE Inc.	USA
	FUKU HODA	JAPAN
	HATSUTA	JAPAN
	INBAL VALVES	UK
	JOMOS	SWITZERLAND
	KIDDE FIRE CO.	ITALY
	MINIMASK	GERMANY
	ROSENBAUER	GERMANY / AUSTRIA
	SAMTEKNO-Tempus OY	FINLAND
	SES ASA PROTECTION(SES ENSER ENGINEERING)	ITALY
	SILVANI	ITALY
	SIMTRONICS	NORWAY
	SPRAY SAFE	UK
	SISTECOIN	SPAIN
	TOTAL FEURCHUTZ	GERMANY
	VIKING	USA / W.EUROPE
<u>5.2.1.2- FOAM SYSTEM</u>		
	ADER TAVAN NAMI	IRAN
	NARFOM KAR	IRAN
	PERSIAN G.P.E	IRAN
	SAKHTAR ENERGY ZHARF	IRAN
	ANGUS FIRE LTD.	UK
	CHEMETRON	USA / W.EUROPE
	CHUBB FIRE	UK
	CHUBB NATIONAL FOAM	UK
	FUKU HODA	JAPAN
	KIDDE FIRE CO.	ITALY
	MURITA	JAPAN
	PYRENE	CANADA
	ROSENBAUER	GERMANY / AUSTRIA
	SHILLA FIRE	KOREA
	SILVANI	ITALY
	TOTAL WALTHER	GERMANY
	WILLIAMS	USA, W.EUROPE
	ZIEGLER	GERMANY

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
5.2.1.3-	<i>WATER SUPPLY (HYDRANTS , MONITORS & REELS)</i>	
	ADER TAVAN NAMI	IRAN
	IMEN SAHAND ARYA	IRAN
	IMEN TIAR (WET ONLY)	IRAN
	NARFOAM KAR	IRAN
	PERSIAN G.P.E	IRAN
	ALCO CONTROLS GmbH	GERMANY
	AMERICAN DARLING	CANADA / W.EUROPE
	ANGUS FIRE LTD.	UK
	KENEDY VALVE	CANADA
	KNOWSLEY SK LTD.	UK
	MULLER	GERMANY
	POK	FRANCE
	SHILLA FIRE	KOREA
	SILVANI	ITALY
	SIMTRONICS	NORWAY
5.2.1.3.1-	<i>POST INDICATOR VALVE</i>	
	FG VALVOLE SRL	ITALY
	SAKHTAR ENERGY ZHARF	IRAN
	ANGUS FIRE	UK
	KENEDY VALVE	CANADA
5.2.1.3.2-	<i>SELF OSCILLATING MONITOR</i>	
	POK	FRANCE
	SHILLA FIRE	KOREA
5.2.1.4-	<i>FIRE FIGHTING PUMP ON TRUCK</i>	
	DACO	S.KOREA
	GODAIVA	UK
	ROSENBAURE	GERMANY / AUSTRIA
	SIDES	FRANCE
	ZIEGLER	GERMANY
5.2.1.5-	<i>FIRE BOX</i>	
	ADER TAVAN NAMI	IRAN
	DENA SHIRAZ	IRAN
	ETFAYE HARIGHE BOSTAN	IRAN
	EAMEN PARS	IRAN
	IMEN SAHAND ARYA	IRAN
	IMEN TIAR	IRAN
	KIMIAGAR	IRAN
	NARFOAMKAR	IRAN
	NEGAHBAN	IRAN
	PERSIAN G.P.E	IRAN
	SAKHTAR ENERGY ZHARF	IRAN
5.2.1.6-	<i>GAS DETECTOR SYSTEM</i>	
	ANSUL	UK
	BLACK FIRE	CANADA
	B.W	CANADA
	CHUBB FIRE	UK
	DRÄGER	GERMANY
	HOCKE	JAPAN
	MINIMAX	GERMANY
	SIEMENS	AUSTRALIA / NEW ZEALAND
	SILVANI	ITALY
	TOTAL WALTHER	GERMANY

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
5.2.1.7- INERT GAS (IG) & CO2 SYSTEM		
	NARFOAM KAR	IRAN
	EUSEBI IMPIANTI	ITALY
	ROTAREX	LUXEMBOURG
	SYSTECOIN	SPAIN

5.2.2- PORTABLE EQUIPMENT

5.2.2.1- EXTINGUISHER

5.2.2.1.1- DRY POWDER / WATER

	AZAR CYLANDR	IRAN
	DARROOS IRAN	IRAN
	IRAN ATASHBAR	IRAN
	IRAN NEJAT	IRAN
	NARFOAM KAR	IRAN
	PISHROW	IRAN
	SAKHITAR ENERGY ZHARF	IRAN
	TOCHAL	IRAN
	YADEGAR	IRAN
	AI GROUP	FRANCE
	ANGUS FIRE LTD.	UK
	BAVARIA	GERMANY
	CHUBB FIRE	UK
	GLORIA	GERMANY
	ROTAREX	LUXEMBOURG
	SIMTRONICS	NORWAY
	TOTAL WALTHER	GERMANY
	VICTORIA	ITALY

* THE EQUIPMENT SUPPLIED BY IRANIAN VENDORS SHOULD BE CERTIFIED BY ISIRI, ALSO TO BE EQUIPPED BY VALVES SUPPLIED FROM OFF-SHORE.

5.2.2.1.2- CO2 / FOAM

	ANGUS FIRE LTD.	UK
	ANSUL	UK
	BAVARIA	GERMANY
	BLACK FIRE	CANADA
	CHUBB FIRE	UK
	GLORIA	GERMANY
	MINIMAX	GERMANY
	SILVANI	ITALY
	TOTAL WALTHER	GERMANY
	VICTORIA	ITALY

5.2.2.2- FIRE MONITOR

	ADER TAVAN NAMI	IRAN
	AZAR KHODRO	IRAN
	IMEN SAHAND ARYA	IRAN
	IMEN TIAR	IRAN
	MACHIN ATASHMAHAR NO	IRAN
	PERSIAN G.P.E	IRAN
	SANATKARAN BERM CO.	IRAN
	SANGUIN KAR SANAT	IRAN
	ALCO CONTROLS GmbH	GERMANY
	ANGUS FIRE LTD.	UK
	ELKHARTE	UK
	MORITA	JAPAN
	POK	FRANCE
	ROTAREX	LUXEMBOURG
	SILVANI	ITALY
	TOTAL WALTHER	GERMANY
	ZIEGLER	GERMANY

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
5.2.2.3-	<i>PUMP FOR FIRE ENGINE</i>	
	AZAR KHODRO	IRAN
	SANATKARAN BERMU CO.	IRAN
	SANGUIN KAR SANAT	IRAN
	CAMIVA	ITALY
	GODIVA	UK
	HALE	UK
	ROSENBAUER	GERMANY / AUSTRIA
	SILVANI	ITALY
	ZIEGLER	GERMANY

5.2.3- **FIRE TRUCK**

5.2.3.1- ***FOAM TENDER, WATER & FOAM TENDER & TANKER***

AFTAB EKBATAN	IRAN
ATASH MAHAR NO	IRAN
MOJTAMA SANAYE HADID	IRAN
NARFOAM KAR	IRAN
SANATKARAN BERMU CO.	IRAN
SANGUIN KAR SANAT	IRAN
BAI	ITALY
BARIBBI	ITALY
CHENETTI	ITALY
CHUBB NATIONAL FOAM	UK
JOHN DENNIS COACHBUILDERS LTD	UK
EMERGENCY ONE	USA / W.EUROPE
KAR MICHAEL	UK
METZ	FRANCE
ROSENBAUER	GERMANY / AUSTRIA
SAVAL	BELGIUM
SIDES	FRANCE
SILVANI	ITALY
SOMATI	FRANCE
SUPERIOR	CANADA
ZIEGLER	GERMANY

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
5.2.3.2-	<i>POWDER TRUCK , RESCUE TRUCK & LADDER , MULTI - PURPOSE</i>	
	ATASH MAHAR NO	IRAN
	NARFOAM KAR	IRAN
	SANGUIN KAR SANAT	IRAN
	BAI	ITALY
	BARIBBI	ITALY
	CHENETTI	ITALY
	CHUBB NATIONAL FOAM	UK
	JOHN DENNIS COACHBUILDERS LTD	UK
	EMERGENCY ONE	USA / NETHERLANDS
	KAR MICHAEL	UK
	METZ	FRANCE
	ROSENBAUER	GERMANY / AUSTRIA
	SAVAL	BELGIUM
	SIDES	FRANCE
	SILVANI	ITALY
	SOMATI	FRANCE
	SUPERIOR	CANADA
	ZIEGLER	GERMANY
5.2.4-	<i>GENERAL FIRE FIGHTING MATERIALS & ACCESSORIES</i>	
5.2.4.1-	<i>HOSES</i>	
	ANGUS FIRE LTD.	UK
	G & H (GOLLMER & HUMMEL)	GERMANY
	MATEC GROUP	ITALY
	MEHLER	GERMANY
	NAFFCO	UK
	ROSENBAUER	GERMANY / AUSTRIA
	TOTAL WALTHER	GERMANY
	ZIEGLER	GERMANY
5.2.4.2-	<i>FITTING , COUPLING & ADAPTOR</i>	
	IMEN SAHAND ARYA	IRAN
	IMEN TIAR	IRAN
	NEGAHBAN	IRAN
	A.W.G.	GERMANY
	ANGUS FIRE LTD.	UK
	JOHN MORRIS	UK
	MORITA	JAPAN
	POK	FRANCE
	ROSENBAUER	GERMANY / AUSTRIA
	SHILLA FIRE	KOREA
	TOTAL WALTHER	GERMANY

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
5.2.4.3-	NOZZLE	
	IMEN SAHAND ARYA	IRAN
	IMEN TIAR	IRAN
	NEGAHBAN	IRAN
	ANGUS FIRE LTD.	UK
	CHUBB FIRE	UK
	KIDDE FIRE CO.	ITALY
	FUKU HUDA	JAPAN
	KNOWSLEY SK LTD.	UK
	POK	FRANCE
	PYRENE	CANADA
	ROSENBAUER	GERMANY / AUSTRIA
	SHILLA FIRE	KOREA
	SILVANI	ITALY
5.2.4.4-	POWDER & FOAM (ONLY MAT'S)	
	ATASHBAS	IRAN
	AZAR KABIN	IRAN
	EYMAN TASH SEPAHAN	IRAN
	LOSHAREH	IRAN
	NARFOAM KAR	IRAN
	AI GROUP	FRANCE
	AJAX	NETHERLANDS
	ANGUS FIRE LTD.	UK
	N.F (NATIONAL FOAM)	UK
	NAFFCO	UK
	PURPLE K	NETHERLANDS
	SABO	FRANCE / ITALY
	SILVANI	ITALY
	TOTAL	FRANCE
5.2.4.5-	CO2 FILLING MACHINE , HOSE BINDING MACHINE , HOSE WINDING MACHINE , BREATHING AIR COMPRESSOR AND POWDER FILLING MACHINE.	
	AFTAB EKBATAN*	IRAN
	TIGRA	IRAN
	BAVARIA	GERMANY
	DRÄGER	GERMANY
	G & H (GOLLMER & HUMMEL)	GERMANY
	INTERSPIRO	SWEDEN
	ROSENBAUER	GERMANY / AUSTRIA
	SILVANI	ITALY
	WAGNER	GERMANY
	ZIEGLER	GERMANY

* HOSE BINDING MACHINE ONLY

5.2.5- FIRE PROOFING SYSTEM

(SUBJECT TO DISCUSSION IN CIVIL ENGINEERING)

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
5.2.6-	<u>RESCUE SYSTEM EQUIPMENT</u>	
	BEAL	ITALY
	HE / MATRO	NETHERLANDS
	LUCAS	UK
	NORTH SAFETY	CANADA / W.EUROPE
	PETZL	FRANCE
	ROSENBAUER	GERMANY / AUSTRIA
	ZIEGLER	GERMANY

5.2.7-	<u>SAFETY DEVICES</u>	
	<u>[PPE (PERSONAL PROTECTIVE EQUIPMENT)]</u>	
	CLAR	IRAN
	DENA SHIRAZ	IRAN
	IMEN TORK	IRAN
	G.S.P	IRAN
	HEYAAT	IRAN
	IMEN SANAT	IRAN
	IMEN TIAR	IRAN
	KAFSH MELLI	IRAN
	MILAD	IRAN
	MOJTAMEH BESAT	IRAN
	MO-OD	IRAN
	NEGAHBAN	IRAN
	SAFE	IRAN
	B.W.	CANADA
	BRISTOL	UK
	CROWCON	UK
	DRÄGER	GERMANY
	FENZY	FRANCE
	INTERSPIRO	SWEDEN
	KEMIRA	GERMANY
	NORTH SAFETY	CANADA / W.EUROPE
	OLDHAM	FRANCE
	ROSENBAUER	GERMANY / AUSTRIA
	SABER	FRANCE
	TEMPEX	UK
	TOTAL	FRANCE

5.2.8-	<u>SPECIAL ITEMS</u>	
5.2.8.1-	<u>FALL PROTECTION EQUIPMENT</u>	
	PETZL	FRANCE
5.2.8.2-	<u>SAFTY VESTS AND SUB SEA WORK EQ.</u>	
	PETZL	FRANCE

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
5.2.8.3-	CHEMICAL RESISTANCE ANTI-FIRE CLOTHING	
	MOJTAMA BESAT	IRAN
	NARFOAM KAR	IRAN
	SAKHTAR ENERGY ZHARF	IRAN
	ARTHURE FIRE	CANADA
	BRISTOL	UK
	DRÄGER	GERMANY
	MSA	USA / W.EUROPE
	NORTH SAFETY	CANADA / W.EUROPE
	ROSENBAUER	GERMANY / AUSTRIA

5.2.8.4- **SELF CONTAIN BREATHING APPARATUS (SCBA) / AIR LINE & FILTERING**

AUER	GERMANY
DRÄGER	GERMANY
FENZY	FRANCE/POLAND
MSA	USA / W.EUROPE
ROSENBAUER	GERMANY / AUSTRIA

5.2.8.5- **FLAME ARRESTOR**

KITO	GERMANY
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5.3- ENVIRONMENT

5.3.1- **AIR POLLUTION ANALYZER**

BUHLER TECHNOLOGIES	GERMANY
ENVIROMENT S.A.	FRANCE
POLLUTION S.P.A	ITALY
PROTEA	UK
TESTO	GERMANY

5.3.2- **STACK FLUE GAS ANALYZER**

ABB	UK
APEX	USA / W.EUROPE
HORIBA	USA / W.EUROPE
LAND	UK
MRU	GERMANY
OPSIS	SWEDEN
PROTEA	UK
TESTO	GERMANY

5.3.3- **WASTE WATER PORTABLE ANALYZER**

EXACT TM	UK
GO-SYS	GERMANY
JENWAY	UK
THERMO	USA / W.EUROPE
WINDOUS	GERMANY
W.T.W	GERMANY

5.3.4- **WASTE WATER AUTOMATIC SAMPLING DEVICE**

ENDRESS & HAUSER	GERMANY
ISCO	USA / W.EUROPE
NEMOL	GERMANY
W.T.W	GERMANY

COMPANY NAME

ORIGIN

5.3.5- SOIL POLLUTION MONITOR & ANALYZER

METROHM APPLIKON	NETHERLANDS
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5.3.6- UNDER GROUND WATER MONITOR & ANALYZER

KPSI	USA / W.EUROPE
SEBA	GERMANY

5.3.7- OIL MIST COLLECTORS

WILL BE ADVISED LATER	
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5.3.8- ONLINE ANALYZER

5.3.8.1- GAS ON-LINE ANALYZER

PAYESH ZIST AZMA (EMACO)	IRAN
ABB	GERMANY
CHROMAOTOTEC	FRANCE
DR.FODISH	GERMANY
DURAG	GERMANY
ENVIROMENT SA.	FRANCE
E.T.G	ITALY
F.E.R	ITALY
FUJI ELECTRIC	JAPAN
M.R.U	GERMANY
PROCAL	UK
RB - TECHNOLOGIES	FRANCE
SERVOMEX	UK
SIEMENS	GERMANY
YOKOGAWA	JAPAN

5.3.8.2- WASTE WATER ON-LINE ANALYZER

APPLITEK	BELGIUM
EMERSON	UK
ENDRESS-HAUSER	SWITZERLAND
GO-SYS	GERMANY
HACH-LONGE	USA/GERMANY
LAR	GERMANY
METROHM APPLIKON	NETHERLANDS
PROCESS INSTRUMENT	UK
SCAN	AUSTRIA
STIP & PROMINENT	USA / CANADA
TETHYS INSTRUMENTS	FRANCE
W.T.W	GERMANY

5.3.8.3- DUST ON-LINE ANALYZER

M.I.P	FINLAND
P.C.M.E	GERMANY
SICK	GERMANY



6- CIVIL & STRUCTURE

6. CIVIL & STRUCTURE

6. CIVIL & STRUCTURE

6.1- STEEL STRUCTURE

6.2- FALSE FLOOR / CEILING / ALUMINIUM COMPOSITE PANEL

6.3- GROUT / ADDITIVE CONCRETE / HARDNER

6.4- GALVANIZED COATING

6.5- SEALING MATERIAL

6.5.1- CONCRETE JOINT SEALANT / WATER STOP

6.5.2- GEOTEXTILE

6.5.3- GEOMEMBRANE

6.5.4- ISOLATING MAT'S

6.6- GRATING

6.6.1- METALIC

6.6.2- NON – METALIC

6.7- SPATIAL (SPACE) FRAME

6.8- MARINE STRUCTURE

6.9- FIRE PROOFING (REGULAR / LIGHT WEIGHT)

6.10- PRE - CAST

6.10.1- CONCRETE

6.10.2- NON-CONCRETE

6.11- SANDWICH PANEL

6.12- BRIDGE CRANE (E.O.T)

6.13- SPECIAL DOOR (EXPLOSION PROOF)

6.14- DOUBLE PANE WINDOW

6.15- ANCHOR CABLE

6.16- NEW MAT'S / COMPONENTS

6.17- PRE-FABRICATED BUILDING

6.17.1- CONCRETE

6.17.2- NON-CONCRETE/CONEX

6.18- ANCHOR BOLTS

6.19- LIGHT WEIGHTED MAT'S

6.20- ACID PROOF TILES

6.21- ACID PROOF MORTARS

6.22- GLASS

6.22.1- *NORMAL*

6.22.2- *ARMY*

6.22.3- *SECURIT*

6.22.4- *DOUBLE GLAZED*

6.22.5- *REFLECTOR/ MIRROR (CONCAVE, CONVEX, FLAT)*

COMPANY NAME

ORIGIN

6.1 - STEEL STRUCTURE

AHANSAY	IRAN
ALBORZ NOVIN SHIRAZ	IRAN
ALFA SAM	IRAN
ARIA FOOLAD SABALAN	IRAN
ARKAN SANAT PAYDAR	IRAN
ASGOON FELEZ SEPAHAN	IRAN
AZAR FELEZAN	IRAN
BAMDAD ZENDEH ROUD	IRAN
FANKAVAN ENERGY POOYA	IRAN
ESKELETHAI FOOLAD VA MAKHAZEN IRAN	IRAN
ESTA FELEZ	IRAN
FANAVARI NOVIN NIROO	IRAN
FOOLAD FAN	IRAN
FOOLAD NAGHSH EURASIA	IRAN
FOOLAD PAYA	IRAN
JAHANKAR ESFAHAN	IRAN
JAHAN TOSSE PARS SANAT	IRAN
JAVAN DEZHPOL	IRAN
KARA SAZEH KIMIYA	IRAN
KAROON SAZEH	IRAN
KOOSHA ENERGY TABARESTAN	IRAN
MACHINE AJZA	IRAN
MACHIN SAZI AZARBAYJANI	IRAN
MACHIN SAZI ARAK	IRAN
MACHIN SAZI ESFAHAN	IRAN
MACHIN SAZI KEYHAN KHAMABAD	IRAN
MACHIN SAZI PARS	IRAN
MACHIN SAZI SAZEHAYEH SANATI ASTOTOOS	IRAN
MERAT POULAD	IRAN
METEC	IRAN
MILAD	IRAN
MOHANDESI SABZ ASHIAN APADANA	IRAN
MOHANDESI VA SAKHTE TAJHIZAT SEPAHAN MAPNA	IRAN
MOMTAZ GOSTAR PARS	IRAN
NAFT SAZEH GHESHM	IRAN
NASB SAMAN ARAK	IRAN
NAVAR AHANIN SAMAN ARAK	IRAN
NEYRPERIS	IRAN
PARS SOBHAN BOOZARJOMEHR	IRAN
PAYA SANAT AHWAZ	IRAN
PAYBAND SAZEH	IRAN
PAYSAZ	IRAN
SADAD MACHIN	IRAN

SANAYE FELEZI IRAN	IRAN
SANAYE KOLAHDOZ	IRAN
PARAG SAZEH & PAARAAG INDUSTRIAL GROUP	IRAN
SAZEHAYEH FELEZI SHAHRYAR	IRAN
SAZVAR SAZEH AZARESTAN	IRAN
SHOKOUFA SANAT POUYA	IRAN
SOOLEH KAVEH PARS	IRAN

COMPANY NAME

ORIGIN

6.2 - FALSE FLOOR / CEILING / ALUMINIUM COMPOSITE PANEL

ALMICO	IRAN
ALUMINUM BAMKAR	IRAN
AZARAN PLASTIC	IRAN
FATH IRAN	IRAN
GHATAAT FOLADI	IRAN
IRAN SAGHF	IRAN
KNAUF IRAN	IRAN
PARSI TAK	IRAN
PROFILE ALUMINIUM ZIAE	IRAN
RAIZIRAN	IRAN
SANAYE ARMIN AZAR	IRAN
SANAYE AYTAK DARB	IRAN
TEHRAN DAMA	IRAN
STEEL SYSTEM	FRANCE

6.3 - GROUT / ADDITIVE CONCRETE / HARDNER

ATROPAT SHIMI	IRAN
AYEGH ROTOBATI SANAT BAM GOLESTAN	IRAN
BETON SHIMIE KHAVARMIANEH	IRAN
CLINIC SAKHTEMANI IRAN	IRAN
DAMAVAND SEPID	IRAN
FARAVARDEHYE SHIMIAEI SAKHTEMAN	IRAN
FOMAN SHIMI	IRAN
KARIZ HYDROSAZEH GIL	IRAN
MOHANDESI SHIMI IRAN	IRAN
REZIN BETON BARTAR	IRAN
SANATI REZIN SAZAN FARIS	IRAN
SANAYE SHIMI SAKHTEMAN ABADGARAN	IRAN
SHIMI SAKHTEMAN	IRAN
ZARFAM POLYMER	IRAN
BOSSONG	ITALY
MAZ	GERMANY
SIKA	SWITZERLAND

6.4 - GALVANIZED COATING

IRAN YASA ARAK	IRAN
KHORDEGI GHADIR	IRAN
MERKID	IRAN
NAVARD VA LOOLEH AHWAZ	IRAN
SEPENTA	IRAN
TEHRAN HARA	IRAN
ZENDEH ROOD	IRAN

COMPANY NAME

ORIGIN

6.5 - SEALING MATERIAL

6.5.1- CONCRETE JOINT SEALANT / WATER STOP

ATROPAT SHIMI	IRAN
AYEGHHAYE ROTOBATI	IRAN
AYEGH ROTOBATI SANAT BAM GOLESTAN	IRAN
CLINIC SAKHTEMANI IRAN	IRAN
FIROZ GAM	IRAN
ISOGAM	IRAN
KARIZ HYDROSAZEH GIL	IRAN
POM CO	IRAN
SANAYE SHIMI SAKHTEMAN ABADGARAN	IRAN
SHIMI SAKHTEMAN	IRAN
ZARFAM POLYMER	IRAN

6.5.2- GEOTEXTILE

BEHSAZ NASJ	IRAN
CHESHMEH SAR YAZD	IRAN
SABZ GOSTAR KANDOVAN	IRAN

6.5.3- GEOMEMBRANE

CHESHMEH SAR YAZD	IRAN
CHIDAK BASPAR	IRAN
SABZ GOSTAR KANDOVAN	IRAN
SEPIDEH SOBH ALAGHEBAND	IRAN
NEROU	SWITZERLAND

6.5.4- ISOLATING MAT'S

AYEGH PARDIS SAEI	IRAN
BAB	IRAN
IDEH SAZAN	IRAN
PASHM & SHISHEH IRAN / THERMO TANK	IRAN
PASHM CERAMIC IRAN	IRAN
PASHM SANG IRAN	IRAN
TARABGIN	IRAN
TARADIS	IRAN

COMPANY NAME

ORIGIN

6.6 - GRATING

6.6.1- METALLIC

ALFA SAM	IRAN
ARAK RAIL	IRAN
DOZHPAD	IRAN
FAZA SAZAN AMIN	IRAN
FELEZ SAZEH	IRAN
FOOLAD DRAKHSHAN	IRAN
FOOLAD PERESS	IRAN
GHATEATE FOOLADI	IRAN
MERIK	IRAN
MOSHABAK Poush	IRAN
PARS MOSHABAK	IRAN
SANAYE AYTAK DARB	IRAN
SANAYE FLEZI IRAN	IRAN
TADAROKAT SANATI SEPAHAN	IRAN

6.6.2- NON - METALLIC

PARS MOSHABAK	IRAN
FIBERSTRUCT	THE NETHERLANDS

6.7- SPATIAL (SPACE) FRAME

SANAYE SHAHABADI	IRAN
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6.8 - MARINE STRUCTURE

NAFT SAZEH GHESHM	IRAN
SADRA	IRAN
TASISAT DARYAEI IRAN (IOEC)	IRAN

6.9- FIRE PROOFING (REGULAR / LIGHT WEIGHT)

GILAN MIKA	IRAN
COOL THERM	UK
HOLZHAUER PUMPEN	GERMANY
LAPINUS	THE NETHERLANDS
WARNERISOFI ISOLATION	FRANCE

6.10- PRE - CAST

6.10.1- CONCRETE

AZARIT	IRAN
DOKAL	IRAN
FIAL BETON	IRAN
IRDAK	IRAN
SANAT IRAN	IRAN
SIMAN DOROUD	IRAN
TOSHEH SANAT FAZELAB IRAN	IRAN

COMPANY NAME

ORIGIN

6.10.2- NON-CONCRETE

KNAUF IRAN	IRAN
MAMOUT	IRAN

6.11- SANDWICH PANEL

AYEGH ROTOBATI SANAT BAM GOLESTAN	IRAN
FABIS	IRAN
GHATATE FOOLADI	IRAN
MAMOUT	IRAN

6.12- BRIDGE CRANE (E.O.T)

AHROM VAZIN	IRAN
ARIAN	IRAN
FANAVARI NOVIN NIROO	IRAN
FARABAR SANAT VAZIN	IRAN
FIROZA	IRAN
IRAN SAKHT CRANE	IRAN
KARA SAZEH KIMIA	IRAN
MACHIN SAZI MANGAN	IRAN
MACHIN SAZI PARS	IRAN
SADAD MACHIN	IRAN
SHAHANG VAZIN	IRAN
SHOKOUFA SANAT POUYA	IRAN
TEFLER	IRAN
VAZNEH PARS	IRAN
EILBECK CRANES	AUSTRALIA

6.13- SPECIAL DOOR (EXPLOSION PROOF)

SALIAN DARB E MANDEGAR	IRAN
SANDOGH NASOZ KAVEH	IRAN
SANDOGH NASOZ KHORAM	IRAN

6.14- DOUBLE PANE WINDOW

ARIAN PAZHANG	IRAN
SANAYE ARMIN AZAR	IRAN
SECO	IRAN

6.15- ANCHOR CABLE

MACHIN SAZI MANGHAN	IRAN
MALAYER WIRE ROPE	IRAN
SADAD MACHIN	IRAN

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
6.16- <u>NEW MAT'S / COMPONENTS</u>		
	SECO	IRAN
6.17- <u>PRE-FABRICATED BUILDING</u>		
6.17.1- <u>CONCRETE</u>		
	WILL BE ADVISED LATER	
6.17.2- <u>NON-CONCRETE / CONEX</u>		
	WILL BE ADVISED LATER	
6.18- <u>ANCHOR BOLTS</u>		
	AZIN PICH	IRAN
	BEHIN FOULAD ATI GOSTAR	IRAN
	FARASAZAN PICH GOSTARE PARS	IRAN
	JAVAHER GHATEE SHARGH	IRAN
	NIKAN TEK IRANIAN (IRAN TECHNIC)	IRAN
	PETRONUT	IRAN
	POOLAD PEECH KAR	IRAN
	RAWLPLUG	UK
6.19- <u>LIGHT WEIGHTED MAT'S</u>		
	HEBLEX	IRAN
6.20- <u>ACID PROOF TILES</u>		
	ANZAN SANAT POLYMER	IRAN
	KASHI MARJAN	IRAN
6.21- <u>ACID PROOF MORTARS</u>		
	WILL BE ADVISED LATER	
6.22- <u>GLASS</u>		
6.22.1- <u>NORMAL</u>		
	SHISHEH GHAZVIN	IRAN
6.22.2- <u>ARMY</u>		
	SHISHEH GHAZVIN	IRAN
6.22.3- <u>SECURIT</u>		
	SHISHEH GHAZVIN	IRAN
6.22.4- <u>DOUBLE GLAZED</u>		
	SHISHEH GHAZVIN	IRAN
6.22.5- <u>REFLECTOR/ MIRROR (CONCAVE, CONVEX, FLAT)</u>		
	SHISHEH GHAZVIN	IRAN



7- CATALYST & CHEMICAL & OIL

7. CATALYST / CHEMICALS / OIL

7.1. CATALYST

7.1.1- NON POLYMERIC PLANT

7.1.2- POLYMERIC PLANT

7.2- ADSORBENT, DESORBENT & RESIN

7.2.1- MOLECULAR SIEVE

7.2.2- SILICAGEL / ACTIVATED ALUMINA / ADSORBENTS

7.2.3- ION EXCHANGE RESIN / MEMBRANE

7.2.4- ACTIVATED CARBON

7.3- CHEMICALS / ADDITIVES / ABSORBENTS

7.4- SUPPORT & PACKING

7.5- OIL & GREASE

COMPANY NAME

ORIGIN

7.1. CATALYST

7.1.1- NON POLYMERIC PLANT

AXENS	FRANCE
BASF	GERMANY
BAYER	GERMANY
CECA	FRANCE/JAPAN
CRI	USA / W.EUROPE
EVONIK	GERMANY
EXXON-MOBIL	USA
HALDOR TOPSOE	DENMARK
INEOS	UK/BELGIUM
JOHNSON MATTHEY	UK
KATALEUNA	USA/THE NETHERLANDS
NIPPON SHOKUBAI	JAPAN
PERCHEM	SWITZERLAND
PETROGAS	UK
SCI	UK
SD (SCIENTIFIC DESIGN)	USA
SUD-CHEMIE	GERMANY
SYNETIX	UK
TORAY	JAPAN
UOP	USA / W.EUROPE
ZEOLYST	USA

7.1.2- POLYMERIC PLANT

AKZO NOBEL	USA / W.EUROPE
BASELL	GERMANY
BASF	GERMANY
ETHYL S.A.	USA/BELGIUM
HULS	GERMANY
INOES	UK/France
INTER CHIM	AUSTRIA
JOHNSON MATTHEY	UK
mitsui	JAPAN
SCHERING	GERMANY
SIBA - GIEGY	SWITZERLAND
STAUFFER	USA/SWITZERLAND
SUD-CHEMIE	GERMANY
WITCO	GERMANY

COMPANY NAME

ORIGIN

7.2- ADSORBENT, DESORBENT & RESIN

7.2.1- MOLECULAR SIEVE

NITEL PARS	IRAN
AXENS	FRANCE
CECA	FRANCE
ENITECNI	SWITZERLAND
mitsui	JAPAN
SIBEL HEGNER	JAPAN
UNION SHOWA	JAPAN
ZEOCHEM	SWITZERLAND

7.2.2- SILICAGEL / ACTIVATED ALUMINA / ADSORBENTS

JAHAD DANESHGAHI SHARIF	IRAN
AIRSEC S.A.	FRANCE
ARKEMA CANADA INC.	CANADA
AXENS	FRANCE
CECA	FRANCE
JOHNSON MATTHEY	UK
GEEJAY CHEMICAL	UK

7.2.3- ION EXCHANGE RESIN / MEMBRANE

BAYER	GERMANY
DOW DOW CHEMICAL CO. LTD.	UK
FIMTEC	USA
HYDRONATIC	CANADA
PROULITE	UK
ROHM & HAAS	UK / ITALY
TORAY	JAPAN

7.2.4- ACTIVATED CARBON

PAD ARVIN	IRAN
SHIMI PAJOOHAN	IRAN
DOW DOW CHEMICAL CO. LTD.	UK
JACOBI CARBONS AB	SWEDEN

COMPANY NAME

7.3- CHEMICALS / ADDITIVES / ABSORBENTS

ORIGIN

ABTIN REZIN	IRAN
ASAD SHIMI SEPAHAN	IRAN
CHASSB SAZ SARI	IRAN
ELMI SAZAN PEESHROW	IRAN
EMEN TASH SEPAHAN	IRAN
ENERGY SEMNAN	IRAN
EXIR KIMIAGAR ZARRIN	IRAN
FAKHR CHEMIE RAZAN	IRAN
FARAVAR PAJOOHESH RAZI	IRAN
FARSHID SHAHREZA	IRAN
IRANOL	IRAN
JAHAD DANESHGAHI SHARIF	IRAN
KAROON SHIMI KHOOZESTAN	IRAN
KIMIA MAHAN ALBORZ	IRAN
MAHAM PARCHIN	IRAN
MAVAD SHIMIAI	IRAN
MEHRTASH SEPAHAN	IRAN
NARBON	IRAN
NIROO CHLOR	IRAN
PADRAVIN	IRAN
PARS CHLOR	IRAN
PARS LIAN	IRAN
PETRO POOYESH KIMIA	IRAN
ROUDBAR TOUTIA	IRAN
SADR CHEMIE	IRAN
SALAR SHIMI SHAHRYAR	IRAN
SANAYEH DEFA SHIMIAYEE	IRAN
SHIMIAYEE FARS SHIRAZ	IRAN
SHIMIAEE TASFIEH	IRAN
SIMAB REZIN	IRAN
SINA CHEMICAL INDUSTRIAL COMPANY	IRAN
SULFUR SODIUM IRAN	IRAN
TAJDAR SAMAN	IRAN
ZOHAL CHEMI	IRAN
AAE CHEMIE	SWITZERLAND
AKZO NOBEL	THE NETHERLANDS
AREMA	FRANCE
ARKEMA	FRANCE
ASHI DENKA	JAPAN
BARABANT	UK
BASF	GERMANY
BAYER	GERMANY
BECKMANN	GERMANY
BETZ	ITALY

<u>COMPANY NAME</u>	<u>ORIGIN</u>
BOLTH	UK
BUDENHEM	GERMANY
BWA	UK
CHAMPION	UK
CHEMCOR	THE NETHERLANDS
CHEMICAL INDUSTRIES	THE NETHERLANDS
CHIMEC	ITALY
CIBA	SWITZERLAND
DARACOR	FRANCE
DEGUSSA	FRANCE
DYCAR INT	UK
ENITECNI	SWITZERLAND
ERWIN H-BRAMMER	GERMANY
FACI	ITALY
HACHEM	GERMANY
HENKEL	GERMANY
HERCULES	UK
HOTAN	SWITZERLAND
HOZART	IRELAND
ICI KATALCO	UK
INTER CHEM	AUSTRIA
IRMECO GMBH	GERMANY
MATERTEC	SWITZERLAND
MESSER	UK
MITSUI	JAPAN
NALCO	ITALY
NORIT	THE NETHERLANDS
PERCHEM	SWITZERLAND
PETRO VLISL	THE NETHERLANDS
SOJITZ	JAPAN
STEPAN EUROPE	GERMANY
STEULER	GERMANY
SUDCHEMICAL	GERMANY
VOGLER	SWITZERLAND
WATERTEC	SWITZERLAND
WITCO	GERMANY

COMPANY NAME

ORIGIN

7.4- SUPPORT & PACKING

ARDAKAN CERAMIC	IRAN
AZAR ENERGY	IRAN
DAMAVAND FELEZ (MONTZ)	IRAN / GERMANY
FARAALIAJ ARAK	IRAN
GAHR CERAM	IRAN
MABNA GOSTAR SEPAHAN	IRAN / GERMANY
PAYDAR	IRAN
POLIKA KARAJ	IRAN
SANAYE CERAMIC TEHRAN	IRAN
SANAYE PANTAN CHEMI	IRAN
SETAREH SANAT TOOS	IRAN
SHIRIN YAR TEHRAN	IRAN
TAVAN AFZAR	IRAN
TAVANKARAN SANAT	IRAN
BASF	GERMANY
MTE	NETHERLANDS
PERCHEM	SWITZERLAND
SAINT - GOBAIN NOR-PRO	THE NETHERLANDS
VEREINIGTE FULLKORPER	GERMANY
VOGLER	THE NETHERLANDS
WATERTEC	SWITZERLAND

7.5- OIL & GREASE

ASIA GULEH	IRAN
BEHRAN	IRAN
BEHTOTAL	IRAN
IRANOL	IRAN
NAFT PARS	IRAN
NAFT SEPAHAN	IRAN
PALAYESH SHOMAL	IRAN
AGIP	ITALY
BP	UK
CPI	USA
ESSO	W.EUROPE
EXXON MOBIL	W.EUROPE
MOLYKOTE	W.EUROPE
SHELL	UK
TOTAL FINA ELF	FRANCE



8- LABORATORY

8. LABORATORY EQUIPMENT

8 - LABORATORY

8.1- CHROMATOGRAPHY

- 8.1.1- GAS CHROMATOGRAPH /MASS SPECTROSCOPE (GC , GC / MS)
- 8.1.2- HIGH PERFORMANCE LIQUID CHROMATOGRAPHY (HPLC)
- 8.1.3- ION CHROMATOGRAPHY (IC)

8.2- SPECTROPHOTOMETER

- 8.2.1- FOURIER TRANSFORMER INFRARED (FTIR) , INFRA RED (IR)
- 8.2.2- ULTRA VIOLET (UV / UV VISIBLE)
- 8.2.3- INDUCTIVELY COUPLED PLASMA / MASS (ICP, ICP / MS)
- 8.2.4- EMISSION SPECTROSCOPE (ES)
- 8.2.5- ATOMIC ABSORPTION (AA)
- 8.2.6- X-RAY FLUORESCENCE (XRF) / X-RAY DIFFRACTION (XRD)
- 8.2.7- FLAME PHOTOMETER

8.3- AIR ANALYZER

8.4- O₂ ANALYZER (DISSOLVER)

8.5- O₂ ANALYZER (GAS)

8.6- WATER ANALYZER

8.7- ION SELECTIVE

8.8- OIL ANALYZER

- 8.8.1- FLASH/ POUR/CLOUD POINT
- 8.8.2- VISCOSITY
- 8.8.3- WATER IN OIL
- 8.8.4- LIQUID DENSITY METER

8.9- ELEMENTAL (CHNOS) ANALYZER

8.10- POLYMER TEST EQUIPMENT

8.10.1- PHYSICAL

- 8.10.1.1- BRITTLENESS TEMPERATURE
- 8.10.1.2- BULK DENSITY
- 8.10.1.3- DENSITYMETER (WITH BALANCE)
- 8.10.1.4- DIFFERENTIAL SCANNING CALORIMETER (DSC)
- 8.10.1.5- DIFFERENTIAL THERMAL ANALYZER (DTA)
- 8.10.1.6- BALL DROP
- 8.10.1.7- ELECTRICAL RESISTANCE METER
- 8.10.1.8- ENVIRONMENT STRESS CORROSION RESISTANCE(ESCR)
- 8.10.1.9- GLOSS METER
- 8.10.1.10- DENSITY METER (GRADIENT)

- 8.10.1.11- *HARDNESS TESTER*
- 8.10.1.12- *HAZE METER*
- 8.10.1.13- *HDT / VICAT*
- 8.10.1.14- *IZOD IMPACT*
- 8.10.1.15- *MELT FLOW INDEX (MFI)*
- 8.10.1.16- *MELTING POINT*
- 8.10.1.17- *MICROMETER*
- 8.10.1.18- *TENSILE & FLEXURAL*
- 8.10.1.19- *TGA*
- 8.10.1.20- *VOLATILENESS METER (WITH BALANCE)*
- 8.10.1.21- *VOLATILE METER*
- 8.10.1.22- *NOTCHING MACHINE*
- 8.10.1.23- *DART DROP IMPACT*
- 8.10.1.24- *GEL PERMISSION CHROMATOGRAPH (GPC)*
- 8.10.1.25- *PIPE TESTER*
- 8.10.1.26- *LIMITED OXYGENATION INDEX (LOI)*
- 8.10.1.27- *TEAR TESTER*
- 8.10.1.28- *YELLOW / WHITE INDEX TESTER*
- 8.10.1.29- *PLAX TESTER*

8.10.2 - TECHNICAL

- 8.10.2.1- *BALL MILL MIXER*
- 8.10.2.2- *BLOW FILM*
- 8.10.2.3- *BLOW MOULDING*
- 8.10.2.4- *CAST FILM*
- 8.10.2.5- *INJECTION*
- 8.10.2.6- *PIPE EXTRUDER*
- 8.10.2.7- *PRESS*
- 8.10.2.8- *PELLETIZER*

8.11- GENERAL ITEMS

- 8.11.1- *ANALYTICAL BALANCE*
- 8.11.2- *CENTRIFUGE*
- 8.11.3- *COLORIMETER (UV)*
- 8.11.4- *COLORIMETER (SAYBOLT)*
- 8.11.5- *COLORIMETER (COMPERATOR)*
- 8.11.6- *CONTAMINATING METER*
- 8.11.7- *BOD / COD / TOC METER*
- 8.11.8.1- *AIR / N₂ / H₂ GENERATOR*
- 8.11.8.2- *OZONE GENERATOR*
- 8.11.9- *DEMINERALIZED WATER (DM WATER MAKER)*
- 8.11.10- *DENSITY METER*
- 8.11.11- *DEW POINT*
- 8.11.12- *DISTILATION*
- 8.11.13- *EXPLOSION PROOF REFRIGERATOR*
- 8.11.14- *FURNACE*
- 8.11.15- *HOT PLATE / STRIPPER / MANTLE*

- 8.11.16- INDUCTION PERIOD
- 8.11.17- KARL-FISCHER TITRATOR (COULOMETRY / VOLUMETRIC)
- 8.11.18- OVEN / INCUBATOR
- 8.11.19- PARTICLE SIZE (LASERIC)
- 8.11.20- PH METER
- 8.11.21-REID VAPOUR PRESSURE (RVP)
- 8.11.22-REFRACTO METER
- 8.11.23-PARTICLE SIZE (SIEVE SHAKER)
- 8.11.24-STOP WATCH
- 8.11.25-TECHNICAL BALANCE
- 8.11.26-TITRATOR
- 8.11.27-TURBIDITY METER
- 8.11.28-ULTRASONIC BATH
- 8.11.29-VACUUM PUMP
- 8.11.30-WATER BATH
- 8.11.31-HVAC

8.12- SPECIAL SOFT / HARDWARE

- 8.12.1- LABORATORY INFORMATION MANAGEMENT SYSTEM

8.13- LABORATORY GLASSWARE

8.14- LABORATORY CHEMICALS

8.15- LABORATORY FURNITURE

- 8.15.1- ACID PROOF TILES
- 8.15.2- ACID PROOF MORTARS

8.16- SAMPLING EQUIPMENT

- 8.16.1- NEEDLE VALVE
- 8.16.2- CYLINDER
- 8.16.3- QUICK CONNECTION
- 8.16.4- HOSE
 - 8.16.4.1- GENERAL HOSE
 - 8.16.4.2- H.P HOSE FOR HYDRAULIC SYSTEM
- 8.16.5- RUBBER BLADDER

8.17- CALIBRATION & STANDARD GASES

8.18- CONSUMABLE GOODS

COMPANY NAME

ORIGIN

8.1- CHROMATOGRAPHY

8.1.1- GAS CHROMATOGRAPH /MASS SPECTROSCOPE (GC , GC / MS)

AGILENT TECHNOLOGIES	UK
G.A.S	THE NETHERLANDS
HP	USA / THE NETHERLANDS
M&I LABTECH	BELGIUM
PHILIPS	THE NETHERLANDS
SHIMADZU	JAPAN
SIEMENS	GERMANY
VARIAN CHROMPACK	USA / THE NETHERLANDS

8.1.2- HIGH PERFORMANCE LIQUID CHROMATOGRAPHY (HPLC)

HP	USA / NETHERLANDS
PHILIPS	THE NETHERLANDS
VARIAN CHROMPACK	USA /THE NETHERLANDS

8.1.3- ION CHROMATOGRAPHY (IC)

METROHM	SWITZERLAND
WATERS	USA/W.EUROPE

8.2- SPECTROPHOTOMETER

8.2.1- FOURIER TRANSFORMER INFRARED (FTIR) , INFRA RED (IR)

BRUCKER	GERMANY
JASCO	JAPAN
PERKIN ELMER	USA / W.EUROPE
PHILIPS	THE NETHERLANDS
SHIMADZU	JAPAN
THERMOELECTRON	W.EUROPE
VARIAN CHROMPACK	USA / W.EUROPE

8.2.2- ULTRA VIOLET (UV / UV VISIBLE)

CARRY	USA / W.EUROPE
CECIL	UK
HACH	USA
PERKIN ELMER	USA / W.EUROPE
PHILIPS	THE NETHERLANDS
VARIAN CHROMPACK	USA / THE NETHERLANDS
WTW	USA/GERMANY

8.2.3- INDUCTIVELY COUPLED PLASMA / MASS (ICP, ICP / MS)

PERKIN ELMER	USA / W.EUROPE
PHILIPS	THE NETHERLANDS
VARIAN CHROMPACK	USA / W.EUROPE

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
8.2.4- EMISSION SPECTROSCOPE (ES)		
	PERKIN ELMER	USA / W.EUROPE
	PHILIPS	THE NETHERLANDS
	THERMOELECTRON	W.EUROPE
	VARIAN CHROMPACK	USA / THE NETHERLANDS
8.2.5- ATOMIC ABSORPTION (AA)		
	PERKIN ELMER	USA / W.EUROPE
	PHILIPS	NETHERLANDS
	THERMOELECTRON	W.EUROPE
	VARIAN CHROMPACK	USA / THE NETHERLANDS
8.2.6- X-RAY FLUORESCENCE (XRF) / X-RAY DIFFRACTION (XRD)		
	PANALYTICAL (PHILIPS)	UK / THE NETHERLANDS
8.2.7- FLAME PHOTOMETER		
	PERKIN ELMER	USA/W.EUROPE
	SHIMADZU	JAPAN
8.3- AIR ANALYZER		
	ENVIRONMENT S.A.	FRANCE
	HORIBA	W.EUROPE
	MCZ	GERMANY
	TESTO	GERMANY
8.4- O₂ ANALYZER (DISSOLVER)		
	HACH	USA / W.EUROPE
	METROHAM	SWITZERLAND
	METTLER	SWITZERLAND
	TOA-DKK	JAPAN
	WTW	GERMANY
8.5- O₂ ANALYZER (GAS)		
	SERVOMEX	GERMANY
	TELEDYNE	USA / W.EUROPE
8.6- WATER ANALYZER		
	METROHM	SWITZERLAND
	METTLER	SWITZERLAND
	MILLIPORE	USA/W.EUROPE
	SARTORIUS	GERMANY
	WTW	GERMANY
8.7- ION SELECTIVE		
	METROHM	SWITZERLAND
	WATERS	USA / W.EUROPE
	WTW	GERMANY

COMPANY NAME

ORIGIN

8.8- OIL ANALYZER

8.8.1- FLASH/ POUR/CLOUD POINT

HERZOG	GERMANY
PAC-ISL SA	FRANCE
PETROTEST	GERMANY

8.8.2- VISCOSITY

ANTON PAAR	AUSTRIA
HERZOG	GERMANY
KOEHLER	USA / W.EUROPE
LAUDA	AUSTRIA
PERKIN ELMER	USA / W.EUROPE

8.8.3- WATER IN OIL

METROHM	SWITZERLAND
METTLER	SWITZERLAND

8.8.4- LIQUID DENSITY METER

METTLER	SWITZERLAND
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8.9- ELEMENTAL (CHNOS) ANALYZER

TSHR	THE NETHERLANDS
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8.10- POLYMER TEST EQUIPMENT

8.10.1- PHYSICAL

8.10.1.1- BRITTLENESS TEMPERATURE

CEAST	ITALY
ZWICK	GERMANY

8.10.1.2- BULK DENSITY

CEAST	ITALY
ZWICK	GERMANY

8.10.1.3- DENSITYMETER (WITH BALANCE)

METTLER	SWITZERLAND
SARTORIUS	GERMANY

8.10.1.4- DIFFERENTIAL SCANNING CALORIMETER (DSC)

METTLER	SWITZERLAND
PERKIN ELMER	USA / W.EUROPE
PHILIPS	SWITZERLAND

8.10.1.5- DIFFERENTIAL THERMAL ANALYZER (DTA)

METTLER	SWITZERLAND
PERKIN ELMER	USA / W.EUROPE
PHILIPS	THE NETHERLANDS

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
8.10.1.6- BALL DROP	CEAST	ITALY
8.10.1.7- ELECTRICAL RESISTANCE METER	CEAST	ITALY
	ZWICK	GERMANY
8.10.1.8- ENVIRONMENT STRESS CORROSION RESISTANCE(ESCR)	CEAST	ITALY
	RAY RAN	W.EUROPE
	ZWICK	GERMANY
8.10.1.9- GLOSS METER	AMETEC / DAVEN PORT	W.EUROPE
	CEAST	ITALY
	GARDNER	JAPAN
	ZWICK	GERMANY
8.10.1.10- DENSITY METER (GRADIENT)	GARD CO.	JAPAN
8.10.1.11- HARDNESS TESTER	WILL BE ADVISED LATER	
8.10.1.12- HAZE METER	GARDNER	JAPAN
8.10.1.13- HDT / VICAT	WILL BE ADVISED LATER	
8.10.1.14- IZOD IMPACT	AMETEC / DAVEN PORT	W.EUROPE
	CEAST	ITALY
	ZWICK	GERMANY
8.10.1.15- MELT FLOW INDEX (MFI)	CEAST	ITALY
	ZWICK	GERMANY
8.10.1.16- MELTING POINT	CEAST	ITALY
	YAMATO	JAPAN
	ZWICK	GERMANY

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
8.10.1.17- MICROMETER		
	CEAST	ITALY
	MITUTOYO	JAPAN
	ZWICK	GERMANY
8.10.1.18- TENSILE & FLEXURAL		
	ADAMEL	FRANCE
	INSTRON	UK
	LLOYD	W.EUROPE
8.10.1.19- TGA		
	METTLER	SWITZERLAND
	PERKIN ELMER	USA / W.EUROPE
	PHILIPS	THE NETHERLANDS
8.10.1.20- VOLATILENESS METER (WITH BALANCE)		
	WILL BE ADVISED LATER	
8.10.1.21- VOLATILE METER		
	HERAEUS	GERMANY
	POR-LABO	FRANCE
	THERMOELECTRON	W.EUROPE
8.10.1.22- NOTCHING MACHINE		
	CEAST	ITALY
	ZWICK	GERMANY
8.10.1.23- DART DROP IMPACT		
	CEAST	ITALY
	DYNISCO	USA / W.EUROPE
	ZWICK	GERMANY
8.10.1.24- GEL PERMEATION CHROMATOGRAPH (GPC)		
	CEAST	ITALY
	HP	USA / THE NETHERLANDS
	PHILIPS	THE NETHERLANDS
	THERMOELECTRON	W.EUROPE
	VARIAN CHROMPACK	USA / W.EUROPE
	WATERS	USA / W.EUROPE

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
8.10.1.25- PIPE TESTER		
	CEAST	ITALY
	IPT	GERMANY
8.10.1.26- LIMITED OXYGENATION INDEX (LOI)		
	CEAST	ITALY
	DYNISCO	UK
8.10.1.27- TEAR TESTER		
	CEAST	ITALY
	DAVENPORT	
	ZWICK	GERMANY
8.10.1.28- YELLOW / WHITE INDEX TESTER		
	MINOLTA	JAPAN
8.10.1.29- PLAX TESTER		
	CEAST	ITALY
	INFRASERV	GERMANY
	ZWICK	GERMANY
8.10.2- TECHNICAL		
8.10.2.1- BALL MILL MIXER		
	WEBER	GERMANY
8.10.2.2- BLOW FILM		
	DR.COLLIN	GERMANY
	REIFENHÄUSER	GERMANY
	WEBER	GERMANY
8.10.2.3- BLOW MOULDING		
	BEKUM	W.EUROPE
	DR.COLLIN	GERMANY
	REIFENHÄUSER	GERMANY
8.10.2.4- CAST FILM		
	DR.COLLIN	GERMANY
	REIFENHÄUSER	GERMANY
	WEBER	GERMANY
8.10.2.5- INJECTION		
	ARBURG	GERMANY
	BATTENFELD	GERMANY
	BILLION	UK
	DR.COLLIN	GERMANY
	HERBERG	GERMANY
	NEGRI BOSSI S.P.A.	ITALY

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
	REIFENHÄUSER	GERMANY
	WEBER	GERMANY
8.10.2.6- PIPE EXTRUDER		
	BATTENFELD	GERMANY
	BILLION	GERMANY
	DR.COLLIN	GERMANY
	HERBERG	GERMANY
	REIFENHÄUSER	GERMANY
	WEBER	GERMANY
8.10.2.7- PRESS		
	CEAST	ITALY
	DR.COLLIN	GERMANY
8.10.2.8- PELLETIZER		
	BATTENFELD	GERMANY
	DR.COLLIN	GERMANY
	HERBERG	GERMANY
	REIFENHÄUSER	GERMANY
	WEBER	GERMANY
8.11- <u>GENERAL ITEMS</u>		
8.11.1- ANALYTICAL BALANCE		
	A&D	UK
	ADAMLAB	UK
	HAEBERLE	GERMANY
	METTLER	SWITZERLAND
	OHAUS	GERMANY
	SARTORIUS	GERMANY
8.11.2- CENTRIFUGE		
	CENTRINO	UK
	HERAEUS	GERMANY
	SIGMA / ALDRICH	GERMANY
8.11.3- COLORIMETER (UV)		
	HACH	USA
	PERKIN ELMER	USA / W.EUROPE
	SHIMADZU	JAPAN
	VARIAN	USA / W.EUROPE
8.11.4- COLORIMETER (SAYBOLT)		
	LOVIBOND	GERMANY

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
8.11.7- BOD / COD / TOC METER		
	HACH	USA / W.EUROPE
	WTW	GERMANY
8.11.8.1- AIR / N₂ / H₂ GENERATOR		
	HAVA ABZARE TEHRAN (HATCO)	IRAN
	OZONEAB	IRAN
	DOMNICK	UK
	PEAK SCIENTIFIC	UK
	SCHMIDLIN-DBS AG	GERMANY
8.11.8.2- OZONE GENERATOR		
	OZONEAB	IRAN
8.11.9- DEMINERALIZED WATER (DM WATER MAKER)		
	ELGA	UK
	TKA	GERMANY
	MILLIPORE	GERMANY
8.11.10- DENSITY METER		
	ANTON PAAR	SWITZERLAND
	METROHM	SWITZERLAND
	METTLER	SWITZERLAND
8.11.11- DEW POINT		
	SHAW	UK
8.11.12- DISTILLATION		
	HERZOG	GERMANY
	KOEHLER	USA / W.EUROPE
	NORMALAB	GERMANY
	PETROTEST	GERMANY
8.11.13- EXPLOSION PROOF REFRIGERATOR		
	FISHER SCIENTIFIC	GERMANY
	LABCOLD	GERMANY
	LABLINE	USA / W.EUROPE
8.11.14- FURNACE		
	HERAEUS	GERMANY
	STRIKO	GERMANY
8.11.15- HOT PLATE / STRIPPER / MANTLE		
	COLE PARMER	USA / W.EUROPE
	HAEBERLE	GERMANY
	HEIDOLPH	GERMANY
	IKA	GERMANY
	SCHCOTT	GERMANY
8.11.16- INDUCTION PERIOD		
	KOHLER	USA / W.EUROPE

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
8.11.17- KARL-FISCHER TITRATOR (COULOMETRY / VOLUMETRIC)		
	METROHM	SWITZERLAND
	METTLER	SWITZERLAND
8.11.18- OVEN / INCUBATOR		
	COLE PARMER	USA / W.EUROPE
	HAEBERLE	GERMANY
	HERAEUS	GERMANY
	IKA	GERMANY
	MEMERT	GERMANY
	THERMOELECTRON	W.EUROPE
8.11.19- PARTICLE SIZE (LASERIC)		
	MALVERN	UK
	METROHM	SWITZERLAND
	RETSCH	GERMANY
8.11.20- PH METER		
	FISCHER	GERMANY
	HACH	GERMANY
	METROHM	SWITZERLAND
	METTLER	SWITZERLAND
	WTW	GERMANY
8.11.21- REID VAPOUR PRESSURE (RVP)		
	HERZOG	GERMANY
8.11.22- REFRACTO METER		
	COLE PARMER	USA / W.EUROPE
	METROHM	SWITZERLAND
	METTLER	SWITZERLAND
8.11.23- PARTICLE SIZE (SIEVE SHAKER)		
	ATS FAAR	ITALY
	HOSOKAWA	JAPAN
	RETSCH	GERMANY
8.11.24- STOP WATCH		
	DRÄGER	GERMANY
	MILLIPORE	USA / W.EUROPE
	PERKIN ELMER	USA / W.EUROPE
8.11.25- TECHNICAL BALANCE		
	A&D	UK
	METTLER	SWITZERLAND
	OHAUS	GERMANY
	SARTORIUS	GERMANY

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
8.11.26- TITRATOR		
	METTLER	SWITZERLAND
	METROHM	SWITZERLAND
8.11.27- TURBIDITY METER		
	HACH	GERMANY
	WTW	GERMANY
8.11.28- ULTRASONIC BATH		
	IKA	GERMANY
	SONOREX	GERMANY
8.11.29- VACUUM PUMP		
	STERLING	GERMANY
	BRAND GMBH	GERMANY
8.11.30- WATER BATH		
	HUBER	GERMANY
	JULABO	GERMANY
	LAUDA	GERMANY
	MEMERT	GERMANY
8.11.31- HVAC		
	WILL BE ADVISED LATER	
8.12- <u>SPECIAL SOFT / HARD WARE</u>		
8.12.1- LABORATORY INFORMATION MANAGEMENT SYSTEM		
	THERMOELECTRON	W.EUROPE
8.13- <u>LABORATORY GLASSWARE</u>		
	BRAND GMBH	GERMANY
	B.B.STERLLING	UK
	HAEBERLE	GERMANY
	SCHOTT - DURAN	GERMANY
8.14- <u>LABORATORY CHEMICALS</u>		
	ACROSS	USA / W.EUROPE
	ALDRICH	USA / W.EUROPE
	FLUCKA	USA / W.EUROPE
	MERCK	GERMANY
	ROMIL	UK
	SIGMA	USA / W.EUROPE

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
8-15- <u>LABORATORY FURNITURE</u>		
8.15.1- <u>ACID PROOF TILES</u>		
	ARVIN TEC	IRAN
	AZAR PARS TAJHIZ	IRAN
	FARAYAD TEHRAN	IRAN
	FARPAJOOH	IRAN
	KASHI MARJAN	IRAN
	SHIMA	IRAN
	TEHRAN NOAVAR	IRAN
8-16- <u>SAMPLING EQUIPMENT</u>		
8.16.1- <u>NEEDLE VALVE</u>		
	MIRAB	IRAN
	PARKER	USA / W.EUROPE
	SUPELCO / SIGMA-ALDRICH	USA / W.EUROPE
	SWAGELOK	GERMANY
8.16.2- <u>CYLINDER</u>		
	PARKER	USA / W.EUROPE
	SUPELCO / SIGMA-ALDRICH	USA / W.EUROPE
	SWAGE-LOCK	GERMANY
8.16.3- <u>QUICK CONNECTION</u>		
	PARKER	USA / W.EUROPE
	SUPELCO / SIGMA-ALDRICH	USA / W.EUROPE
	SWAGELOK	GERMANY
8.16.4- <u>HOSES</u>		
8.16.4.1- <u>GENERAL HOSES</u>		
	PARKER	USA / W.EUROPE
	SUPELCO / SIGMA-ALDRICH	USA / W.EUROPE
	SWAGELOK	GERMANY
8.16.4.2- <u>H.P HOSE FOR HYDRAULIC SYS.</u>		
	HANSA FLEX	GERMANY
8.17- <u>CALIBRATION & STANDARD GASES</u>		
	AIR LIQUIDE	FRANCE
	AIR PRODUCTS	USA / W.EUROPE
	B.O.C.	UK
	LINDE	GERMANY
	STIKO	NETHERLANDS
8.18- <u>CONSUMABLE GOODS</u>		
	DRAGER	GERMANY
	JULABO	GERMANY
	KERN	GERMANY
	LABCOLD	USA / W.EUROPE
	MILLIPORE	USA / W.EUROPE
	SUPELCO / SIGMA-ALDRICH	USA / W.EUROPE



9- WORK SHOP

9. WORK SHOP & MAINTENANCE EQUIPMENT

9.1- MECHANICAL EQUIPMENT

9.1.1- MACHINE SHOP

- 9.1.1.1- BENDING MACHINE
- 9.1.1.2- BEVELING MACHINE
- 9.1.1.3- MILLING MACHINE
- 9.1.1.4- LATHE MACHINE
- 9.1.1.5- DIE MACHINE
- 9.1.1.6- DYNAMIC BALANCING MACHINE
- 9.1.1.7- DRILLING MACHINE
- 9.1.1.8- GRINDER MACHINE
- 9.1.1.9- CUTTING MACHINE
- 9.1.1.10- ROLLING MACHINE
- 9.1.1.11- BORING MACHINE
- 9.1.1.12- SHAPING MACHINE

9.1.2- VALVE SHOP

- 9.1.2.1- VALVE TEST BENCH
- 9.1.2.2- LAPPING MACHINE
- 9.1.2.3- RING & GASKET CUTTER / PACKING CUTTER

9.1.3- WELDING SHOP

- 9.1.3.1- ELECTRODE OVEN
- 9.1.3.2- POLYETHYLENE WELDING EQUIPMENT
- 9.1.3.3- WELDING MACHINE
- 9.1.3.4- STRESS RELIEF ELEMENTS
- 9.1.3.5- PLASMA CUTTING

9.1.4- PUMP SHOP

- 9.1.4.1- HYDROSTATIC TEST PUMP

9.1.5- AUXILIARY

- 9.1.5.1- CHAIN HOIST
- 9.1.5.2- GANTRY/MOBILE CRANE
- 9.1.5.3- JET CLEANER
- 9.1.5.4- AIR COMPRESSOR
- 9.1.5.5- CHAIN BLOCK
- 9.1.5.6- HOT TAP
- 9.1.5.7- HYDRAULIC PRESS
- 9.1.5.8- HOLDAY TEST EQUIPMENT
- 9.1.5.9- ALIGNMENT TOOLS
- 9.1.5.9.1- DIAL GAUGE
- 9.1.5.9.2- LASER
- 9.1.5.10- PORTABLE FLANGE FACE
- 9.1.5.11- STROBOSCOPE
- 9.1.5.12- TUBE EXPANDER
- 9.1.5.13- VIBRATION METER & ANALYZER
- 9.1.5.14- COATING THICKNESS GAUGE METER

- 9.1.5.15- *HYDRAULIC BEARING REMOVAL TOOL*
- 9.1.5.16- *FORMING MACHINE*
- 9.1.5.17- *GRINDING MACHINE*
- 9.1.5.18- *AXIAL/CYLINDRICAL GRINDING MACHINE*
- 9.1.5.19- *ELECTRICAL LIFT TRUCK*

9.1.6- *HIGH TEC.SPARE PARTS (CRITICAL MACHINERY)*

- 9.1.6.1- *BLADE & VANE*
- 9.1.6.2- *BEARING*
- 9.1.6.3- *ROTOR (SHAFT & DISK)*
- 9.1.6.4- *IMPELLER*
- 9.1.6.5- *MECHANICAL/LIQUID & DRY GAS SEAL TYPE (PARTS & COMPLETED)*
- 9.1.6.6- *NOZZLE & COMBUSTOR*
- 9.1.6.7- *SUCTION/DISCHARGE VALVE*
- 9.1.6.8- *CUTTER BLADE*
- 9.1.6.9- *RUPTURE DISC*

9.2- INSTRUMENTATION EQUIPMENT

- 9.2.1- COUNTER TIMER
- 9.2.2- DEAD WEIGHT TESTER
- 9.2.3- ELECTRONIC BENCH TEST
- 9.2.4- FIELD BUS CALIBRATOR
- 9.2.5- FREQUENCY METER
- 9.2.6- HART COMMUNICATOR
- 9.2.7- IC TESTER
- 9.2.8- MEMORY PROGRAMMER/ERASER
- 9.2.9- OIL BATH/OVEN
- 9.2.10- OSCILLOSCOPE
- 9.2.11- PNEUMATIC TEST BENCH
- 9.2.12- PNEUMATIC HAND PUMP
- 9.2.13- PORTABLE 24 VDC POWER SUPPLY
- 9.2.14- PORTABLE CALIBRATOR WITH DIGITAL MANOMETER
- 9.2.15- PORTABLE DIGITAL MULTIMETER
- 9.2.16- DC CLAMP MILLI AMMETER

- 9.2.17- PORTABLE HAND HELD TACHOMETER
- 9.2.18- PORTABLE MANOMETER DIGITAL / ANALOGUE TYPE
- 9.2.19- PORTABLE PNEUMATIC CALIBRATOR
- 9.2.20- PORTABLE SIGNAL GENERATOR
- 9.2.21- PORTABLE SURFACE THERMOMETER
- 9.2.22- PORTABLE TEMPERATURE INDICATOR
- 9.2.23- PORTABLE THERMOCOUPLE / KID SIMULATOR AND TESTED
- 9.2.24- PORTABLE UNIVERSAL METER
- 9.2.25 LCR METER
- 9.2.26- PORTABLE VACUUM SET
- 9.2.27- PORTABLE VIBRATION METER
- 9.2.28- PORTABLE VIBRATION CALIBRATOR
- 9.2.29- RESISTANCE DECADE BOX
- 9.2.30 CAPACITANCE BOX
- 9.2.31- STANDARD DC VOLTAGE / CURRENT SOURCE
- 9.2.32- STANDARD Hg COLUMN MANOMETER
- 9.2.33- STANDARD MERCURY THERMOMETER
- 9.2.34- STANDARD TEST GAUGE
- 9.2.35- STANDARD WATER COLUMN MANOMETER
- 9.2.36- TUBE BENDER / CUTTER
- 9.2.37- PORTABLE PH METER
- 9.2.38- PORTABLE CONDUCTIVITY METER
- 9.2.39- ABSOLUTE MANOMETER

9.3- ELECTRICAL EQUIPMENT

- 9.3.1- INSULATION RESISTANCE TESTER
- 9.3.2- HIPOT TESTER (AC/DC)
- 9.3.3- CLAMP- ON MULTIMETER
- 9.3.4- EARTH RESISTANCE TESTER
- 9.3.5- HI-POTENTIAL EQUIPMENT METER
- 9.3.6- HYDROLIC PRESS CABLE SHOE
- 9.3.7- INDUCTION BEARING HEATER
- 9.3.8- MCC TEST BENCH
- 9.3.9- PHASE SEQUENCE TESTER
- 9.3.10- PRIMARY/SECONDARY CURRENT INJECTION SET
- 9.3.11- TRANSFORMER OIL TESTER
- 9.3.12- WINDING MACHINE
- 9.3.13- WINDING TESTER
- 9.3.14- OIL TREATING PACKAGE
- 9.3.15- RELAY TEST SET
- 9.3.16- MOTOR TEST BENCH
- 9.3.17- LOW RESISTANCE METER
- 9.3.18- CABLE LOCATION FAULT SYSTEM (CABLE FAULT
LOCATOR/SURGE GENERATOR/CABLE BURN TEST)
- 9.3.19- LASER TERMOMETER
- 9.3.20- LUX METER
- 9.3.21- PORTABLE CHARGER
- 9.3.22- RESISTIVE LOAD BANK

9.1- MECHANICAL EQUIPMENT

	COMPANY NAME	ORIGIN
9.1.1- MACHINE SHOP		
9.1.1.1- BENDING MACHINE		
	GHAEM MASHIN	IRAN
	MASHIN SAZI POOYA MEHR	IRAN
	ENERPAC	USA/W.EUROPE
	RIGID	W.EUROPE/USA
	SAHINLER	TURKEY
9.1.1.2- BEVELING MACHINE		
	TOS - MET SRO	CZECH
9.1.1.3- MILLING MACHINE		
	MASHIN SAZI TABRIZ	IRAN
	BOEHRINGER	GERMANY
	CINCINNATI	USA / W.EUROPE
	DINACHI	JAPAN
	HITACHI VIA MECHANICS LTD.	JAPAN
	KENT	TAIWAN
	KNÜTH	GERMANY
	TOS - MET SRO	CZECH
9.1.1.4- LATHE MACHINE		
	MASHIN SAZI TABRIZ	IRAN
	ATAX	UK
	BINNS BERRY	UK
	BOEHRINGER	GERMANY
	DECKEL MAHO GILDEMEISTER (DMG)	GERMANY
	KNÜTH	GERMANY
	POREBA	TAIWAN
	TOS - MET SRO	CZECH
9.1.1.5- DIE MACHNIE		
	RIGID	USA / W.EUROPE
9.1.1.6- DYNAMIC BALANCING MACHINE		
	CEMB SNC	ITALY
	IRD	USA / W.EUROPE
	SCHENCK	GERMANY
9.1.1.7- DRILLING MACHNIE		
	MASHIN SAZI TABRIZ	IRAN
	ATLAS COPCO	SWITZERLAND
	BOSCH	GERMANY
	KNÜTH	GERMANY
	LAP MASTEK	UK / W.EUROPE
	MOSTANA	RUSSIA

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
9.1.1.8- GRINDER MACHINIE		
	MASHIN SAZI TABRIZ	IRAN
	KENT	TAIWAN
	SAHINLER	TURKEY
	TOS - MET SRO	CZECH
9.1.1.9- CUTTING MACHINIE		
	FOOLAD SA	IRAN
	GHAEM MASHIN	IRAN
	RAYCO TECHNIC	IRAN
	SAHINLER	TURKEY
	TOS - MET SRO	CZECH
9.1.1.10- ROLLING MACHINE		
	MASHIN SAZI TABRIZ	IRAN
	SAHINLER	TURKEY
9.1.1.11- BORING MACHINE		
	WILL BE ADVISED LATER	
9.1.1.12- SHAPPING MACHINE		
	WILL BE ADVISED LATER	
9.1.2- VALVE SHOP		
9.1.2.1- VLAVE TEST BENCH		
	AZAR SANGAN	IRAN
	MEHAND HYDRAULICS ENG.	IRAN
	VENTIL	THE NETHERLANDS
9.1.2.2- LAPPING MACHINE		
	NAHADIN SAZAN PARS	IRAN
	NAHORAN	IRAN
	EFCO	GERMANY
	FENLI	THE NETHERLANDS
	KEMET	UK
	LAPMASTER INTERNATIONAL (UK) LTD	USA / W.EUROPE
9.1.2.3- RING & GASKET CUTTER / PACKING CUTTER		
	ALLENA.K-Co. Inc.	USA
9.1.3- WELDING SHOP		
9.1.3.1- ELECTRODE OVEN		
	ABTIN TEB	IRAN
	OXITON	IRAN
9.1.3.2- POLYETHYLENE WELDING EQUIPMENT		
	WILL BE ADVISED LATER	

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
9.1.3.3- WELDING MACHINIE		
	GAAM ELECTRIC	IRAN
	LINCOLN ELECTRIC	UK
	MILLER	USA
9.1.3.4- STRESS RELIEF ELEMENTS		
	WELDOTHERM	GERMANY
9.1.3.5- PLASMA CUTTING		
	WILL BE ADVISED LATER	
9.1.4- PUMP SHOP		
9.1.4.1- HYDROSTATIC TEST PUMP		
	RIGID	USA / W.EUROPE
	HYDRO FORCE	UK
9.1.5- AUXILIARY		
9.1.5.1- CHAIN HOIST		
	TELFER	IRAN
	VITAL	JAPAN
9.1.5.2- GANTRY/MOBILE CRANE		
	LAGVAR	IRAN
	MASHIN SAZI ARAK	IRAN
	SABAHANG VAZIN	IRAN
	SADAD MASHIN	IRAN
	POWER TEAM	USA
	TADANA	THE NETHERLANDS
9.1.5.3- JET CLEANER		
	EUREKA	JAPAN
	HAWA	GERMANY
	INGRID KRANZLE	GERMANY
	WOMA	W.EUROPE
9.1.5.4- AIR COMPRESSOR		
	ATLAS COPCO.	IRAN
	BARON	IRAN
	COMPRESSOR SAZI TABRIZ	IRAN
	HAVA ABZARE TEHRAN (HATCO)	IRAN
	HAVAYAR	IRAN
	KAVOSH SANAT TOOS	IRAN
	SANAYE HAVAYE FESHORDEH IRAN	IRAN
	YEKTA TAHVIEH ARVAND	IRAN
	HANWHA POWER SYSTEM	S.KOREA
9.1.5.5- CHAIN BLOCK		
	ABZAR MAHDI	IRAN
9.1.5.6- HOT TAP		
	MIRRAGE	UK
	NATIONAL PIPING SERVICE IPSCO	USA

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
9.1.5.7- HYDRAULIC PRESS		
	FOOLAD SA	IRAN
	MASHIN SAZI IRAN	IRAN
	MEHAND HYDRAULICS ENG.	IRAN
9.1.5.8- HOLIDAY TEST EQUIPMENT		
	WILL BE ADVISED LATER	
9.1.5.9- ALIGNMENT TOOLS		
9.1.5.9.1- DIAL GAUGE		
	EASYVIBER	SWEDEN
9.1.5.9.2- LASER		
	EASYVIBER	SWEDEN
9.1.5.10- PORTABLE FLANGE FACE		
	MIRAGE	UK
9.1.5.11- STROBOSCOPE		
	WILL BE ADVISED LATER	
9.1.5.12- TUBE EXPANDER		
	AIR TOOL	USA
	WICKSTEED	UK
9.1.5.13- VIBRATION METER & ANALYZER		
	IRD	UK
	SCHENCK	W.EUROPE
9.1.5.14- COATING THICKNESS GAUGE METER		
	ELCOMETER	SWEDEN
	FILMETRICS	USA / W.EUROPE
	LUMETRICES	USA / W.EUROPE
	MICRO EPSILON	USA / W.EUROPE
9.1.5.15- HYDRAULIC BEARING REMOVAL TOOL		
	HI FORCE	UK
	SKF	W.EUROPE
	ENERPAC	USA/W.EUROPE
9.1.5.16- FORMING MACHINE		
	MASHIN SAZI TABRIZ	IRAN
	TOS - MET SRO	CZECH
9.1.5.17- GRINDING MACHINE		
	BOSCH	GERMANY
	KUNG	KOREA
	METABO	KOREA

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
9.1.5.18- AXIAL/CYLINDRICAL GRINDING MACHINE		
	KENT	TAIWAN
	KNÜTH	GERMANY
	TOS - MET SRO	CZECH
9.1.5.19- ELECTRICAL LIFT TRUCK		
	WILL BE ADVISED LATER	
9.1.6 - HIGH TEC.SPARE PARTS (CRITICAL MACHINERY)		
9.1.6.1- BLADE & VANE		
	WILL BE ADVISED LATER	
9.1.6.2- BEARING		
	BOLBERING SAZI TABRIZ	IRAN
	FAG	W.EUROPE
	NACHI	JAPAN
	SKF	W.EUROPE
9.1.6.3- ROTOR (SHAFT & DISK)		
	KHADAMAT TEHRAN VIERA	IRAN
	TAJHIZ ARG PARSIAN(TAPCO)	IRAN
9.1.6.4- IMPELLER		
	KHADAMAT TEHRAN VIERA	IRAN
9.1.6.5- MECHANICAL / LIQUID & DRY GAS SEAL TYPE (PARTS & COMPLETED)		
	REFER TO ITEM NO. 1.1.5 (MECHANICAL SEAL) OF MECHANICAL VENDOR LIST-REV.5	
9.1.6.6- NOZZLE & COMBUSTOR		
	WILL BE ADVISED LATER	
9.1.6.7- SUCTION/DISCHARGE VALVE		
	WILL BE ADVISED LATER	
9.1.6.8- CUTTER BLADE		
	WILL BE ADVISED LATER	
9.1.6.9- RUPTURE DISC		
	ATIEH PARDAZAN ZOHOORE SHARIF	IRAN
	STRIKO	GERMANY

COMPANY NAME **ORIGIN**

9.2- INSTRUMENTATION EQUIPMENT

9.2.1- COUNTER TIMER

ESCORT	W.EUROPE
LEADER	JAPAN
OMRON	JAPAN

9.2.2- DEAD WEIGHT TESTER

BUDENBERGE	GERMANY
STIKO	NETHERLANDS
WIKA	GERMANY

9.2.3- ELECTRONIC BENCH TEST

PARS HASSAS	IRAN
METRIX	USA/WEST EUROPE

9.2.4- FIELDBUS CALIBRATOR

EMERSON	UK
YOKOGAWA	JAPAN / W.EUROPE
HONEYWELL	USA

9.2.5- FREQUENCY METER

BK	USA/W.EUROPE
ESCORT	W.EUROPE
FLUKE	USA / W.EUROPE
LEADER	JAPAN

9.2.6- HART COMMUNICATOR

EMERSON	UK
FLUKE	USA / W.EUROPE
HONEYWELL	USA / W.EUROPE
YOKOGAWA	JAPAN / W.EUROPE

9.2.7- IC TESTER

ABI	UK
LEADER	JAPAN
LEAP	W.EUROPE

9.2.8- MEMORY PROGRAMMER / ERASER

AFZAR AZMA (ERASER)	IRAN
SUPER PRO.	W.EUROPE

9.2.9- OIL BATH/OVEN

DRUCK	USA/W.EUROPE
INDOMART	CANADA
ISOTECH PEGASUS	UK
TECHNE	W.EUROPE
WIKA	GERMANY

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
9.2.10- <u>OSCILLOSCOPE</u>		
	SA IRAN	IRAN
	FLUKE	USA/WEST EUROPE
	HIOKI	JAPAN
	HITACHI	JAPAN
	LEADER	JAPAN
	METRIX	USA/W.EUROPE
	TEXTRONIX	UK / W.EUROPE
9.2.11- <u>PNEUMATIC TEST BENCH</u>		
	PARS HASSAS	IRAN
	BUDENBURG	UK
	WIKA	GERMANY
9.2.12- <u>PNEUMATIC HAND PUMP</u>		
	AMETEK	UK
	DRUCK	USA/W.EUROPE
	INDOMART	CANADA
	WIKA	GERMANY
9.2.13- <u>PORTABLE 24 VDC POWER SUPPLY</u>		
	AFZAR AZMA	IRAN
	FLUKE	USA / W.EUROPE
	INDOMART	CANADA
	YOKOGAWA	JAPAN
9.2.14- <u>PORTABLE CALIBRATOR WITH DIGITAL MANOMETER</u>		
	BUDENBURG	UK
	WIKA	GERMANY
	YOKOGAWA	JAPAN
9.2.15- <u>PORTABLE DIGITAL MULTIMETER</u>		
	FLUKE	USA / W.EUROPE
	HIOKI	JAPAN
	METRIX	USA/WEST EUROPE
	WIKA	GERMANY
9.2.16 <u>DC CLAMP MILLI AMMETER</u>		
	FLUKE	USA / W.EUROPE
	HIOKI	JAPAN
	METRIX	USA/WEST EUROPE
9.2.17- <u>PORTABLE HAND HELD TACHOMETER</u>		
	WILL BE ADVISED LATER	
9.2.18- <u>PORTABLE MANOMETER DIGITAL / ANALOGUE TYPE</u>		
	AMETEK	UK
	BUDENBURG	UK
	WIKA	SWEDEN
9.2.19- <u>PORTABLE PNEUMATIC CALIBRATOR</u>		
	AMETEK	UK
	BUDENBURG	UK
	DRUCK	USA/W.EUROPE
	WIKA	GERMANY

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
9.2.20-	<u>PORTABLE SIGNAL GENERATOR</u>	
	SA IRAN	IRAN
	FLUKE	USA / W.EUROPE
	INDOMART	CANADA
	PROMAC	W.EUROPE
	TTI	UK
9.2.21-	<u>PORTABLE SURFACE THERMOMETER</u>	
	FLUKE	USA / W.EUROPE
	HIOKI	JAPAN
	WIKA	GERMANY
9.2.22-	<u>PORTABLE TEMPERATURE INDICATOR</u>	
	DRUCK	USA/W.EUROPE
	FLUKE	USA / W.EUROPE
	HIOKI	JAPAN
	INDOMART	CANADA
	OMRON	JAPAN
	PROMAC	W.EUROPE
	WIKA	GERMANY
9.2.23-	<u>PORTABLE THERMOCOUPLE / RTD SIMULATOR AND TESTER</u>	
	AMETEK	UK
	DRUCK	USA/W.EUROPE
	FLUKE	USA / W.EUROPE
	INDOMART	CANADA
	ISOTECH	UK
	PROMAC	W.EUROPE
	WIKA	GERMANY
9.2.24-	<u>PORTABLE UNIVERSAL METER</u>	
	SA IRAN	IRAN
	DRUCK	USA/W.EUROPE
	FLUKE	USA/WEST EUROPE
	HIOKI	JAPAN
9.2.25	<u>LCR METER</u>	
	FLUKE	USA / W.EUROPE
	HIOKI	JAPAN
	LEADER	JAPAN
9.2.26-	<u>PORTABLE VACUUM SET</u>	
	BUDENBURG	UK
	DRUCK	USA/W.EUROPE
9.2.27-	<u>PORTABLE VIBRATION METER</u>	
	BENTLY NAVADA	USA / W.EUROPE
	IRD	UK
9.2.28-	<u>PORTABLE VIBRATION CALIBRATOR</u>	
	BENTLY NAVADA	USA / W.EUROPE

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
9.2.29- <u>RESISTANCE DECADE BOX</u>	YOKOGAWA	JAPAN
9.2.30 <u>CAPACITANCE BOX</u>	PARS ELECTRONIC	IRAN
9.2.31- <u>STANDARD DC VOLTAGE / CURRENT SOURCE</u>	PARS HASSAS	IRAN
	INDOMART	CANADA
	YOKOGAWA	JAPAN
9.2.32- <u>STANDARD Hg COLUMN MANOMETER</u>	LAMBRECHT	GERMANY
	PRINCO	GERMANY
9.2.33- <u>STANDARD MERCURY THERMOMETER</u>	FLUKE	USA/W.EUROPE
9.2.34- <u>STANDARD TEST GAUGE</u>	ASHCROFT	USA/W.EUROPE
	BUDENBURG	UK
	HEISE	USA/W.EUROPE
	STIKO	NETHERLANDS
9.2.35- <u>STANDARD WATER COLUMN MANOMETER</u>	FISHER & PAYKEL	USA/W.EUROPE
9.2.36- <u>TUBE BENDER / CUTTER</u>	RIDJID	USA/W.EUROPE
9.2.37- <u>PORTABLE PH METER</u>	EMERSON	W.EUROPE
	METTLER	USA/W.EUROPE
	YOKOGAWA	JAPAN
9.2.38- <u>PORTABLE CONDUCTIVITY METER</u>	EMERSON	W.EUROPE
	METTLER	USA/W.EUROPE
	STIKO	NETHERLANDS
	YOKOGAWA	JAPAN
9.2.39- <u>ABSOLUTE MANOMETER</u>	ASHCROFT	USA/W.EUROPE
	WIKA	SWEDEN

9.3- ELECTRICAL EQUIPMENT

COMPANY NAME

ORIGIN

9.3.1- INSULATION RESISTANCE TESTER

AVO/MEGGER	UK
CHAUVIN ARNOUX	FRANCE
FLUKE	USA/WEST EUROPE
HIOKI	JAPAN
KYORITSU	JAPAN

9.3.2- HI-POT TESTER (AC/DC)

JAHAD DANESHGAHI ELM VA SANAT	IRAN
AVO/MEGGER	UK
SEBAKMT	GERMANY
MUSASHI	JAPAN

9.3.3- CLAMP- ON MULTIMETER

AVO/MEGGER	UK
CHAUVIN ARNOUX	FRANCE
FLUKE	USA/WEST EUROPE
HIOKI	JAPAN
KYORITSU	JAPAN

9.3.4- EARTH RESISTANCE TESTER

AVO/MEGGER	UK
CHAUVIN ARNOUX	FRANCE
FLUKE	USA/WEST EUROPE
HIOKI	JAPAN
KYORITSU	JAPAN

9.3.5- HI-POTENTIAL EQUIPMENT METER

AVO/MEGGER	UK
DETEX	USA/WEST EUROPE

9.3.6- HYDROLIC PRESS CABLE SHOE

BURNDY	USA/WEST EUROPE
ENERPACK	USA/WEST EUROPE
HIGHFORCE	UK
KARL PFISTERER	GERMANY
NISHIDA	JAPAN

9.3.7- INDUCTION BEARING HEATER

FAG	GERMANY
SKF	GERMANY
SN-THERM220	GERMANY
SNR	FRANCE
TM INDUCTION HEATING	THE NETHERLANDS

9.3.8- MCC TEST BENCH

TO BE SUPPLIED BY MCC MANUFACTURER

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
9.3.9- <u>PHASE SEQUENCE TESTER</u>		
	AVO/MEGGER	UK
	CHAUVIN ARNOUX	FRANCE
	FLUKE	USA/WEST EUROPE
	HIOKI	JAPAN
	KYORITSU	JAPAN
9.3.10- <u>PRIMARY/SECONDARY CURRENT INJECTION SET</u>		
	JAHAD DANESHGAHI ELM VA SANAT	IRAN
	AVO/MEGGER	UK
	BAUR	AUSTRIA
	EURO SMC S.A.	SPAIN
	FOSTER	UK
	HIPOTRONICS	USA/WEST EUROPE
	SIEMENS	GERMANY
9.3.11- <u>TRANSFORMER OIL TESTER</u>		
	AVO/MEGGER	UK
	BAUR	AUSTRIA
	MUSASHI	JAPAN
9.3.12- <u>WINDING MACHINE</u>		
	ELECTRICAL POWER INDUSTRIES LABORATORIES (EPIL)	IRAN
	AVO/MEGGER	UK
	WHITELEGG MACHINES	UK
9.3.13- <u>WINDING TESTER</u>		
	AVO/MEGGER	UK
9.3.14- <u>OIL TREATING PACKAGE</u>		
	AAN	GERMANY
	HERING	GERMANY
	VOKES	UK
9.3.15- <u>RELAY TEST SET</u>		
	FANAVARANE ENERGY TOOS	IRAN
	JAHAD DANESHGAHI ELM VA SANAT	IRAN
	VEBCO AMIR KABIR	IRAN
	AVO/MEGGER	UK
	BAUR	AUSTRIA
	CEE	FRANCE
	EUROSMC S.A.	SPAIN
	FOSTER	UK
	SIEMENS	GERMANY
9.3.16- <u>MOTOR TEST BENCH</u>		
	ABB GROUP	GERMANY
	WHITELEGG MACHINES	UK
9.3.17- <u>LOW RESISTANCE METER</u>		
	AVO/MEGGER	UK

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
9.3.18-	<u>CABLE LOCATION FAULT SYSTEM (cable fault locator/surge generator/cable burn test)</u>	
	AVO/MEGGER	UK
	BICOTEST	UK
	SEBAKMT	GERMANY
9.3.19-	<u>LASER TERMOMETER</u>	
	FLUKE	USA/WEST EUROPE
	RAYTEK	GERMANY
	TES	TAIWAN
9.3.20-	<u>LUX METER</u>	
	AVO / MEGGER	UK
	CHAUVIN ARNOUX	FRANCE
	FLUKE	USA/ WEST EUROPE
9.3.21-	<u>PORTABLE CHARGER</u>	
	BORNA ELECTRONIC	IRAN
	FARATEL	IRAN
	JAHAD DANESHGAH ELM VA SANAT	IRAN
	ALCAD	SWEDEN
	GUTOR ELECTRONIC	FRANCE
	SAFT POWER SYSTEM	FRANCE
	SCHNEIDER GROUP	FRANCE
	SIEMENS	GERMANY
	SOCOMEK	FRANCE
	TOSHIBA CORPORATION	JAPAN
9.3.22-	<u>RESISTIVE LOAD BANK</u>	
	BORNA ELECTRONIC	IRAN
	JAHAD DANESHGAH ELM VA SANAT	IRAN