



VENDOR LIST

REV. 6



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1.1- ROTARY EQUIPMENT

COMPANY NAME

ORIGIN

1.1.1- PUMP

1.1.1.1- CENTRIFUGAL WATER PUMP

ABS GROUP	SWEDEN
DICKOW PUMPEN	GERMANY
DMW CORP.	JAPAN
EBARA	JAPAN
ENSIVAL / MORET GROUP	FRANCE / BELGIUM
FLOWSERVE CORPORATION	USA / W.EUROPE / CANADA
GARBARINO	ITALY
ICHIKAWA	JAPAN
IN LINE	UK
IRAN INDUSTRIAL PUMPS	IRAN
IST	GERMANY
K.S.B.	GERMANY
KALAYE PUMP	IRAN
NAVID SAHAND	IRAN
PUMP IRAN	IRAN
PUMP RIZAN	IRAN
PUMPHAYE BOZORG & TURBINE ABI (PETCO)	IRAN
RUHR PUMPEN	GERMANY
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

DICKOW	GERMANY
DMW CORP.	JAPAN
EBARA	JAPAN
ENSIVAL MORET GROUP	FRANCE / BELGIUM
ENVIROTECH	NETHERLANDS
FINDER POMPE S.P.A.	ITALY
FLOWSERVE CORPORATION (WORTHINGTON, INGERSOL / DRESSER PUMP)	USA / W.EUROPE / CANADA
HYOSUNG GOODSPRING *	SOUTH KOREA
IRAN INDUSTRIAL PUMPS	IRAN
K.S.B	GERMANY
MITSUBISHI HEAVY IND.LTD (MHI)	JAPAN
NAVID SAHAND	IRAN
NIJHUIS	NETHERLANDS

<i>COMPANY NAME</i>	<i>ORIGIN</i>
PUMPHAYE BOZORG & TURBINE ABI (PETCO)	IRAN
ROODHART GROUP	NETHERLANDS
RUHR PUMPEN	GERMANY
SHIN NIPPON MACHINERY CO.LTD	JAPAN
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

ALSTOM	FRANCE
DICKOW	GERMANY
DMW CORP.	JAPAN
EBARA	JAPAN
ENSIVAL MORET GROUP	FRANCE / BELGIUM
FLOWSERVE CORPORATION	USA / W.EUROPE / CANADA
HITACHI	JAPAN
IN LINE	UK
K.S.B	GERMANY
NIJHUIS	NETHERLANDS
NIKKISO (SUNDYNE)	JAPAN
PUMP PARS	IRAN
RUHR PUMPEN	GERMANY
SHIN NIPPON MACHINERY CO.LTD	JAPAN
SPP	UK
STORK	NETHERLANDS
SULZER	USA / W.EUROPE / CANADA
TOLID PUMPHAYE BOZORG & TURBINE ABI (PETCO)	IRAN
TORISHIMA PUMP	JAPAN
VOGEL	AUSTRIA
WEIR GROUP PLC (GABBIONETA)	UK / ITALY

COMPANY NAME

ORIGIN

1.1.1.4.2- VERTICAL API TYPE PUMP

DICKOW	GERMANY
DMW CORP.	JAPAN
EBARA	JAPAN
FLOWSERVE CORPORATION (WORTHINGTON, INGERSOL / DRESSER PUMP)	USA / W.EUROPE / CANADA
K.S.B	GERMANY
MARUSHICHI	JAPAN
NIKKISO (SUNDYNE)	JAPAN
RUHR PUMPEN	GERMANY
SHIN NIPPON MACHINERY CO.LTD	JAPAN
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

1.1.1.5- DOSING PUMP

BRAUN & LUEBBE	GERMANY / FRANCE
D.K.M CLEXTRAL	FRANCE
DOSAPRO MILTON ROY	FRANCE / UK / GERMANY
IST	GERMANY
LEWA	GERMANY
MACHIN SAZI NEEV	IRAN
NIKKISO	JAPAN
O.M.GALLARATESI	ITALY
PERONIPOMPE	ITALY
PROMINENT	GERMANY
PUMP VIJEH (GESSCO)	IRAN (GERMANY)
SEKO	ITALY

1.1.1.6- CENTRIFUGAL HIGH SPEED PUMP (INTEGRAL GEAR)

EBARA	JAPAN
FLOWSERVE CORPORATION	USA / W.EUROPE / CANADA
K.S.B	GERMANY
NIKKISO	JAPAN
ROODHART GROUP	NETHERLANDS
STORK	NETHERLANDS
SUNDYNE / INTERPEC	FRANCE / W.EUROPE
WEIR GROUP PLC (GABBIONETA)	UK / W.EUROPE

<i>COMPANY NAME</i>	<i>ORIGIN</i>
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
PLENTY MIRLESS	UK
SEEPEX	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	
EBARA INTERNATIONAL CORP.	JAPAN
FLOWSERVE CORPORATION	USA / W. EUROPE / CANADA
NIKKISO	JAPAN
STERLING FLUID SYSTEM	UK

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	
DICKOW	GERMANY
EBARA FLUID HANDLING	JAPAN
ELMO	GERMANY
HIBON	FRANCE
KSB	GERMANY
LEDERLE-THERMETIC PUMPEN GMBH	NETHERLANDS
NIKKISO	JAPAN
SUNDYNE HMD	UK

COMPANY NAME

ORIGIN

1.1.2- COMPRESSOR

1.1.2.1- CENTRIFUGAL / AXIAL COMPRESSOR

ATLAS-COPCO	GERMANY
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
OIL TURBO COMPRESSOR (OTC)	IRAN
SIEMENS	GERMANY / NETHERLANDS

1.1.2.2- RECIPROCATING COMPRESSOR

BURCHARDT	SWITZERLAND
BURTON CORBLIN	FRANCE
HITACHI	JAPAN
INGERSOL RAND	GERMANY
JSW (JAPAN STEEL WORK)	JAPAN
KOBELCO	JAPAN
MAN DIESEL & TURBO SE	GERMANY
NEUMAN & ESSER	GERMANY
SIAD MACCHINE IMPIANTI	ITALY
SIEMENS	GERMANY
THOMASSEN	NETHERLANDS

1.1.2.3- SCREW COMPRESSOR

ALSTOM (GEC-ALSTOM)	FRANCE
ATLAS COPCO	GERMANY / SWITZERLAND
COMP AIR	UK
DRESSER-RAND	FRANCE / W. EUROPE
FIMA	GERMANY
GHH	GERMANY
KOBELCO	JAPAN
MAN DIESEL & TURBO SE	GERMANY
MYCOM	JAPAN

COMPANY NAME

ORIGIN

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

HANEEF AEEN *	IRAN
TUGA (MAPNA GROUP)	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
SHINKO	JAPAN
SIEMENS	GERMANY

* UP TO 2 MW

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
JARF SANATE KHAVAREMIANEH	IRAN
KAVAND POOYA SAKHT / JOHN CRANE	IRAN / UK
NAHADIN ARMAN	IRAN
PILARY GOSTAR / FLOWSERVE	IRAN / GERMANY
EAGLE	JAPAN
NIPPON PILLAR	JAPAN

1.1.6- FAN & BLOWER

MACHIN SAZI MANGAN (ONLY FAN)	IRAN
SANAYE VACUUM PARS / ROBUSKI	IRAN / ITALY
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

1.1.7- GEAR UNIT

BHS CINCINNATI GETRIEBETECHNIK	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

WILL BE ADVISED LATER

1.1.9.2- HYDROCOUPLING

TRANSFLUID ITALY

1.2- FIXED EQUIPMENT

1.2.1- DRUM & COLUMN

ABAN AIR COOLER	IRAN
ALBORZ NOVIN SHIRAZ	IRAN
ASAS SANAT PARS	IRAN
ARTASH	IRAN
AZAR AB	IRAN
DISAL	IRAN
FATEH SANAT KIMIA	IRAN
FOULAD PAYA	IRAN
GARMA GOSTAR	IRAN
GHATAT VA MACHINALAT SANAYE PETROCHIMI (TOOS)	IRAN
JAHANKAR ESFAHAN	IRAN
KAVEH MOBADDEL	IRAN
KOOSHA ENERGY TABARESTAN	IRAN
MACHIN DAROU	IRAN
MACHIN SAZI ARAK	IRAN
MACHIN SAZI ESFAHAN	IRAN
MAHDIN	IRAN
MASNOUAT FELEZI SANGIN	IRAN
NEYRPERSE	IRAN
PARGASIRAN	IRAN
PARS TECHNIC	IRAN
PAYSAZ	IRAN
PETRO AVAN	IRAN
PETRO SAKHT CHEHELSETOUN	IRAN
POOLAD SAZAN FARAYAND	IRAN
REACTOR SAZ	IRAN
SADID JAHAN SANAT	IRAN
SANATI AHANSAI	IRAN
SANAYE PARSIAN SAZEH SEPAHAN	IRAN
SIMAN SAZAN	IRAN
SUPERACTIVE	IRAN
SYSTEMHAYE SANATI TAKESTAN	IRAN
TAGHTIRAN	IRAN
TAJHIZ FARAYAND ABANGAN	IRAN
TASHA	IRAN
TOLID TAJHIZAT SANGIN (HEPCO)	IRAN
ADM	FRANCE
B.S.L. INDUSTRIES	FRANCE
BELLELI ENERGY CPE SPA	ITALY
C.M.P	FRANCE
COEK ENGINEERING	BELGIUM
DELATTRE BEZONS	FRANCE
DELAUNAY	FRANCE
FBM HUDSON ITALIANA S.P.A.	ITALY
G & G GELDOLF	BELGIUM

<u>COMPANY NAME</u>	<u>ORIGIN</u>
GARDINAL	BELGIUM
HANS LEFFER	GERMANY
HITACHI KASADO JYUKOYOCC	JAPAN
LODEWICK	BELGIUM
OFFICINE LUGI RESTA	ITALY
OLMI	ITALY
ROLLE	ITALY
SIMIC	ITALY
SNIG	FRANCE
WALTER TOSTO	ITALY

1.2.2- H.P. STEAM DRUM

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 ZOSEN	JAPAN
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
ASAS SANAT PARS	IRAN
AZAR AB	IRAN
FOULAD PAYA	IRAN
GHATAT VA MACHINALAT SANAYE PETROCHIMI (TOOS)	IRAN
KOOSHA ENERGY TABARESTAN	IRAN
MACHIN SAZI ARAK	IRAN
MACHIN SAZI ESFAHAN	IRAN
MACHIN SAZI PARS	IRAN
MAHDIN	IRAN
MASNOOAT FLEZI SANGIN	IRAN
NEYRPERSE	IRAN
PARGASIRAN	IRAN
PAYSAZ	IRAN

<u>COMPANY NAME</u>	<u>ORIGIN</u>
PETRO AVAN	IRAN
POULAD SAZAN FARAYAND	IRAN
REACTOR SAZ	IRAN
SADID JAHAN SANAT	IRAN
SANATI AHANSAI	IRAN
SANAYE PARSIAN SAZEH SEPAHAN	IRAN
SIMAN SAZAN	IRAN
SUPERACTIVE	IRAN
TASHA	IRAN
TOLID TAJHIZAT SANGIN (HEPCO)	IRAN

1.2.4- SPHERICAL TANK

MACHIN SAZI ARAK	IRAN
POLAD SAZAN FARAYAND	IRAN
SANAYE PARSIAN SAZEH SEPAHAN	IRAN
BELLELI ENERGY CPE SPA	ITALY
CMP ALIES	FRANCE
G & G GELDOLF	BELGIUM
MARALDI	ITALY
T.K.K.	JAPAN
WHESSOE	UK

1.2.5- CRYOGENIC TANK

HAMPA ENERGY ENGINEERING & DESIGN CO. (HEDCO)	IRAN
CHIGAGO BRIDGE	UK
FOSTER WHEELER ENERGY	UK
KAWASAKI HEAVY INDUSTRIES	JAPAN
MARALDI	ITALY
mitsubishi heavy industries	JAPAN
MOTHERWELL BRIDGE	UK
TASHA / MARALDI	IRAN / ITALY
T.K.K	JAPAN
WHESSOE	UK

1.2.6- SILO / HOPPER

MOPHID SEPAHAN	IRAN
ELLMETAL NV	BELGIUM
JANSENS & DIEPERINK B.V.	NETHERLANDS

1.2.7- HEAT EXCHANGER

1.2.7.1- SHELL & TUBE HEAT EXCHANGER

ABAN AIR COOLER	IRAN
ASAS SANAT PARS	IRAN
AZARAB	IRAN
DISAL	IRAN
FATEH SANAT KIMIA	IRAN
FOULAD PAYA	IRAN
GARMA GOSTAR	IRAN
GHATAT VA MACHINALAT SANAYE PETROCHIMI (TOOS)	IRAN

<i>COMPANY NAME</i>	<i>ORIGIN</i>
KAVEH MOBADDEL	IRAN
MACHIN DAROU	IRAN
MACHIN SAZI ARAK	IRAN
MAHDIN	IRAN
MASNOUAT FELEZI SANGIN	IRAN
PARGASIRAN	IRAN
PETRO SAKHT CHEHELSETOUN	IRAN
ROOYAN TAJHIZ JAM	IRAN
SANAYE HARARATI IRAN	IRAN
SUPER ACTIVE	IRAN
TASHA	IRAN
TEHRAN MOBADEL	IRAN
BELLELI ENERGY CPE SPA	ITALY
BOLDROCCHI ECO LOGIA S.R.L.	ITALY
BORSIG GMBH	GERMANY
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
LODEWIJCK	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
VRV	ITALY
WALTER TOSTO	ITALY

1.2.7.2- H.T. SHELL & TUBE HEAT EXCHANGER

BORSIG AG	GERMANY
COEK ENGINEERING	BELGIUM
DELAUNAY	FRANCE
FBM HUDSON ITALIANA S.P.A.	ITALY
FISHER LORRANIE	FRANCE
FOURE LAGADEC	FRANCE
HITACHI ZOSEN	JAPAN

<i>COMPANY NAME</i>	<i>ORIGIN</i>
KOBE STEEL	JAPAN
LODEWIJCK	BELGIUM
OFFICINE LUGI RESTA S.P.A.	ITALY
MANGIAROTTI S.P.A.	ITALY
OLMI	ITALY
RIBATTI	FRANCE
SCHMIDTSCH HISSDAMPF GMBH	GERMANY
STEINMULLER GMBH	GERMANY / SPAIN

1.2.7.3- PLATE HEAT EXCHANGER

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

1.2.7.4- DOUBLE PIPE HEAT EXCHANGER

AZARAB	IRAN
DISAL	IRAN
MACHIN SAZI ARAK	IRAN
ASET	FRANCE
BROWN FINTUBE (KOCH)	FRANCE
GARGANO	ITALY
SIIRTEC	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
FATEH SANAT KIMIYA	IRAN
KAVEH MOBADDEL	IRAN
MACHIN SAZI ARAK	IRAN
TASHA	IRAN
BALCKE & DURRE	GERMANY

<u>COMPANY NAME</u>	<u>ORIGIN</u>
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
OLMI	ITALY

1.2.7.6- SPIRAL HEAT EXCHANGER

LINDE AG	GERMANY
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1.2.8- EJECTOR

FAN NIROU	IRAN
FARAZARAB	IRAN
KARA TAHVIEH / KARA SANAT TADBIR PAYA	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 (SPIRAX SARCO)	GERMANY / FRANCE
OSAKA VACUUM	JAPAN

1.2.9- REACTOR

AZARAB	IRAN
DISAL	IRAN
MACHIN SAZI ARAK	IRAN
MAHDIN	IRAN
PARGASIRAN	IRAN

<i>COMPANY NAME</i>	<i>ORIGIN</i>
PAYSAZ	IRAN
POULAD SAZAN FARAYAND	IRAN
REACTORSAZ	IRAN
BELLELI ENERGY CPE SPA	ITALY
C.M.P	FRANCE
CIVIDAC	ITALY
COEK ENGINEERING	BELGIUM
DWE	GERMANY
FBM. HUDSON	ITALY
FELGUERA CALDERERA *	SPAIN
G & G GELDOLF	BELGIUM
HANS LEFFER	GERMANY
HITACHI ZOSEN	JAPAN
KOBE STEEL	JAPAN
OFFICINE LUIGI RESTA S.P.A.	ITALY
MANGIAROTTI S.P.A.	ITALY
MITSUBISHI NAGASAKI MACHINE	JAPAN
MUNCH	FRANCE
ROLLE	ITALY
S.B.N	AUSTRIA
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
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
KOCH-GLITSCH S.P.A	ITALY / FRANCE
NORTON GMBH	GERMANY
SULZER CHEMTECH / METAWA	SWITZERLAND / W.EUROPE

COMPANY NAME

ORIGIN

1.2.10.2- CYCLONE

PARGASIRAN	IRAN
ALPINE	GERMANY
EMTROL	UK
LUFTECHNIK	GERMANY
VAN TONGEREN	UK

1.2.10.3- SCRUBBER PACKAGE / FLUE GAS FILTER

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

IRCAST / SCHAWENBERG	IRAN / GERMANY
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
SELAS LINDE	GERMANY

1.2.12- AIR PREHEATER / START UP HEATER

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

COMPANY NAME

ORIGIN

1.2.13- SILENCER

AZAR AB	IRAN
FAN AZMAYAN POYANDEH	IRAN
KAVEH MOBADDEL	IRAN
KARA TAHVIEH / KARA SANAT TADBIR PAYA	IRAN
MACHIN SAZI ARAK	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

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

1.2.15- DESUPERHEATER

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
WIEGAND	GERMANY

COMPANY NAME

ORIGIN

1.2.16- SEPARATOR & FILTER SYSTEM

KASRAVAND	IRAN
MASNOAT FELEZI SANGIN	IRAN
PARGASIRAN	IRAN
PETROHAM PROCESS	IRAN
SYSTEMHAYE SANATI TAKESTAN	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
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
JOHNSON FILTRATION SYSTEM	FRANCE
LAB SA	FRANCE
LFC LOCHEM B.V.	THE NETHERLANDS
PLENTY FILTER	UK
SERVITHEN	FRANCE
SIIRTEC NIGI	ITALY
SOCREMATIC	FRANCE
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
IHI	JAPAN
KOBE STEEL	JAPAN
KTI	ITALY

<i>COMPANY NAME</i>	<i>ORIGIN</i>
KUBOTA	JAPAN
MANOIR INDUSTRIES	FRANCE
PARALLOY BIDDING CLEVELAND	UK
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
DURIKER COMBUSTION ENG. B.V.	NETHERLANDS
GRAHAM	UK
GREENS COMBUSTION	UK
HAMWORTHY	UK
ITAS	ITALY
JOHN ZINK GMBH	LUXEMBOURG
PREMATECHNIK	GERMANY
SULZER ESHER WYE	SWITZERLAND

1.2.20- REFRACTORY

AMOL CARBORANDOM	IRAN
CERAMIC TEHRAN	IRAN
CERAMICHAYE SANATI ARDAKAN	IRAN
DIRGODAZ AMOL	IRAN
FARAVARDEH NASOOZ AZAR ESFAHAN	IRAN
FARAVARDEH NASOOZ TABRIZ	IRAN
FARAVARDEHAYE KANI GHEIRE FELEZI	IRAN
FARAVARDEHAYE NASOOZ IRAN	IRAN
FARAVARDEHAYE NASOOZ NIROU	IRAN

<i>COMPANY NAME</i>	<i>ORIGIN</i>
GAHAR CERAM	IRAN
FARANASOUZ YAZD	IRAN
BECKMANN	GERMANY
CIRIA	ITALY
DIDIER WERKE	GERMANY
JUNER AND GRATHER	GERMANY
KARRENA	GERMANY
PLIBRICO	UK / NETHERLANDS
THERMAL CERAMICS	UK

1.2.21- DEAERATOR

AZARAB	IRAN
GARMA GOSTAR	IRAN
MACHIN SAZI ARAK	IRAN
MAPNA BOILER	IRAN
MASNOAT FELEZI SANGIN	IRAN
BABCOCK / HITACHI	JAPAN
STORK THERMEQ	NETHERLANDS

1.3- PIPING

1.3.1- PIPE

IRAN SPIRAL	IRAN
LOOLEH GOSTAR ESFARAYEN	IRAN
LOOLEH SAZI AHWAZ	IRAN
LOOLEH SAZI KHOOZESTAN	IRAN
LOOLEH SAZI MAHSHAHR	IRAN
LOOLEH SAZI SANIG JAM	IRAN
LOOLEH VA PROFILE SAVEH	IRAN
LOOLEH VA TAJHIZAT SADID	IRAN
NAVARO VA LOOLEH SAFA	IRAN
NAVARO VA LOOLEH AHWAZ	IRAN
ARCELORMITTAL STAAHL HANDEL	NETHERLANDS / GERMANY
AVESTA SANDVIK TUBE AB	SWEDEN
BHDT GMBH	AUSTRIA
CHERO PIPING	ITALY
CORUS	UK
DUFERCO	BELGIUM / SWITZERLAND
ECONOSTO	NETHERLANDS
EEW (ERNDETEBRÜCKER EISENWERK)	GERMANY
EURO PIPE	GERMANY
INTERMETAL2000	UK
IPS	NETHERLANDS
KOBE STEEL	JAPAN
KURVERS	FRANCE / GERMANY
MANFERROSTAAL	BELGIUM / NETHERLANDS
ULMA *	SPAIN

<i>COMPANY NAME</i>	<i>ORIGIN</i>
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
SANDVIK (Pipe & Tube)	SWEDEN
SCHULTZ	GERMANY
SIDECO	ITALY
SUMITOMO METAL	JAPAN
TENARIS (EUROTUBE)	UK
THYSSEN	GERMANY
TPS	GERMANY
VAN LEEUWEN BUIZEN	NETHERLANDS / BELGIUM

1.3.2- FITTING

FOOLAD ASA	IRAN
STEEL ASA	IRAN
TOOS PEYVAND	IRAN
BASSI LUIGI	ITALY
CHERO PIPING	ITALY
CORUS	UK
FAD	ITALY
GELD BACH	GERMANY
I.M.L	ITALY
INTERMETAL2000	UK
KURVERS	FRANCE / GERMANY
MID STEEL PIPELINE LIMITED	UK
NIRO-TECHNIK	GERMANY
OMR	ITALY
PHOCEENNE	FRANCE / BELGIUM
PIPE LINE TUBE & CASING	UK
SANDVIK	SWEDEN
SCHULTZ	GERMANY
SCOMARK ENG.	UK
SUPERLOK *	SOUTH KOREA
TECTUBI RACCORDI	ITALY
TPS	GERMANY
VAN LEEUWEN BUIZEN	NETHERLANDS / BELGIUM
ULMA *	SPAIN

<u>1.3.3- FLANGE</u>	<u>COMPANY NAME</u>	<u>ORIGIN</u>
	GALPERTI IRAN	IRAN
	GHARB FLANGE	IRAN
	MACHIN SAZI ARAK	IRAN
	MARO SANAT	IRAN
	MOJTAMA SANATI ESFARAYEN	IRAN
	MOJTAMA SHAHABADI	IRAN
	PETRO KOUSHESH JAM	IRAN
	CORUS	UK
	EFIND	ITALY
	FAD	ITALY
	GELD BACH	GERMANY
	I.M.L	ITALY
	INTERMETAL2000	UK
	KURVERS	FRANCE / GERMANY
	LOIRE	FRANCE
	MID STEEL PIPELINE LIMITED	UK
	NIRO-TECHNIK	GERMANY
	PHOCEEENNE	FRANCE
	PILLAR TECH *	SOUTH KOREA *
	TECTUBI RACCORDI	ITALY
	TPS	GERMANY
	VAN LEEUWEN BUIZEN	NETHERLANDS

<u>1.3.4- BOLT & NUT</u>	<u>COMPANY NAME</u>	<u>ORIGIN</u>
	BASTARVAN	IRAN
	FALAT ENERGY JAM	IRAN
	IRAN PITCH	IRAN
	IRAN TOHID	IRAN
	KIAN PITCH	IRAN
	PARS PITCH	IRAN
	PART SAZI MASHHAD	IRAN
	PETRONAT	IRAN
	PICH ETESAL PARS	IRAN
	PITCH MOHREH SAZANE SANATI	IRAN
	PITCH VA MOHREHAYE SANATI IRAN	IRAN
	POOLAD PITCH KAR	IRAN
	SAHAND POULAD	IRAN
	TADAROKATE SANATI SEPAHAN	IRAN
	OME	ITALY
	PHOCEEENNE	FRANCE

<u>1.3.5- GASKET</u>	<u>COMPANY NAME</u>	<u>ORIGIN</u>
	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
	PETRO IDEH KOUSHESH	IRAN
	SANAYE VASHER SAZI BEHTA	IRAN

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

1.3.6- STEAM TRAP

EYVAZ TECHNIC	IRAN
KAR AVARANE BOKHAR	IRAN
SANAYE BOKHAR ESFAHAN	IRAN
SANAYE HAFTOME TIR ESFAHAN	IRAN
TALEH BOKHAR	IRAN
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
KARAVARAN BOKHAR	IRAN
KOOSHA ENERGY TABARESTAN	IRAN
NAGHSH JAHAN PALAYEH	IRAN
SANAYE HAFTOME TIR ESFAHAN	IRAN
YAZD FILTER	IRAN
ARMSTRONG	UK
BEKO	GERMANY
EBUTECH	NETHERLANDS
INTERMETAL2000	UK
PLENTY	UK
SPIRAX SARCO	FRANCE

<i>COMPANY NAME</i>	<i>ORIGIN</i>
1.3.8- FLEXIBLE / EXPANSION JOINT	
ENETAF SANE	IRAN
ERTEASH GOSTAR PEYMAN	IRAN
ERTEASHAT LASTIC IRAN	IRAN
ERTEASHAT SANATI IRAN	IRAN
FELEXOR PARS	IRAN
KAROON SAR	IRAN
LASTIC SAHAND	IRAN
ELAFLEX	FRANCE / BELGIUM
FLEXIDER	ITALY
KEMPCHEM	GERMANY

1.3.9- VALVE

1.3.9.1- MECHANICAL VALVES

ASAL ARA	IRAN
GOROOH FAJR MARKAZI	IRAN
GOROOH SANATI GODAKHTAR	IRAN
GOROOH SAZANDEGAN SANAT ESPADANA (GSSE)	IRAN
MARO SANAT	IRAN
NIKAN PETROTECH	IRAN
PARS PANGAN	IRAN
POUYA SANAT SEPEHR ARMAN	IRAN
RASTA GROUP GHESHM	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 TAJHZAT 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
BABCOCK *	SPAIN
BAF VALVES B.V	NETHERLANDS
BESTOBELL VALVES LTD	UK
BOEHMER	GERMANY
BONNEY FORGE	ITALY
BRAY VALVE & CONTROLS	GERMANY/UK
CAPITAL VALVE	UK
DANIEL INDUSTRIES	UK
DELLA FUGLI	ITALY
DELTA PACIFIC VALVE DPV	UK
FLOWSERVE CORPORATION	BELGIUM / GERMANY
DURIRON	CANADA
ECONOSTO	NETHERLANDS
EMERSON	NETHERLANDS
FASANI S.P.A.	ITALY
FEMA	ITALY
FLOW TECH	UK

<i>COMPANY NAME</i>	<i>ORIGIN</i>
GEMELS (BALL VALVE)	ITALY
GEMU	GERMANY
GESTRA	GERMANY / SPAIN
GROVE DRESSER	ITALY
IPS	NETHERLANDS
KITZ CORPORATION	JAPAN
KURVERS	GERMANY / FRANCE
LAZARO ITUARTE INTERNATIONAL, S.A. *	SPAIN
MULTI-VALVE TECHNOLOGY	UK
ORBIT	UK
PETRO VALVS	ITALY
PHOCEENNE	FRANCE / BELGIUM
PIBIVIESSE	ITALY
PIETRO FIORTINI	ITALY
PROVALVE	GERMANY
RAIMONDI	ITALY
RBR VALVOLE SPA	ITALY
RINGO VALVULAS *	SPAIN
ROBERT CORT	UK
SANDRERES	UK
SERCK AUDCO VALVE	UK
SHIPHAM VALVES	UK
SHIRAKAWA	JAPAN
SHUCTK	GERMANY
STOCKHAM VALVE	UK
SUD ROBINETTERIE INDUSTRIES	FRANCE
SUPERLOK *	SOUTH KOREA
TAI MILANO S.P.A.	ITALY
TECHNO FRANCE	FRANCE / ITALY
THYSSEN	GERMANY
VALVITALIA *	ITALY
VALVOSIDER	ITALY
VELAN	GERMANY
VITAS	ITALY
WEIR VALVE & CONTROL	UK
ZA. VE.RO.INDUSTRIAL VALVES	ITALY

1.3.9.2- SAFETY VALVES

GOROOH SAZANDEGAN SANAT ESPADANA (GSSE)	IRAN
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1.3.10- SPRING SUPPORT AND HANGER

BHP SYSTEMS DESIGN	USA / W. EUROPE
FELEXIDER	ITALY
LISEGA	GERMANY
PIPING TECHNOLOGY & PRODUCT	USA / W. EUROPE
UEC INDUSTRIES	UK
WALRABEN	GERMANY

COMPANY NAME

ORIGIN

1.4- PACKAGE UNIT

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
GARMA GOSTAR	IRAN
MAPNA BOILER	IRAN
OSVEH IRAN INDUSTRIAL GROUP	IRAN
BABCOCK / HITACHI	JAPAN
BALCKE DURR	GERMANY
DEUTSCHE BABCOCK AG	GERMANY
FOSTER WHELLER	UK / GERMANY
MACCHI S.P.A.	ITALY
STEINMULLER	GERMANY

1.4.1.2.2- FIRE TUBE BOILER

GARMA GOSTAR	IRAN
MACHIN SAZI ARAK	IRAN
PAKMAN	IRAN

1.4.1.3- HEAT RECOVERY STEAM GENERATION

AZARAB	IRAN
MAPNA BOILER	IRAN
MASHIN SAZI ARAK	IRAN
THERMO DESIGN INC./ OSVEH INDUSTRIAL GROUP **	CANADA/IRAN
ALSTOM	FRANCE
FOSTER WHEELER	FRANCE
NC-CCT	ITALY
NECHNIK-KTI	ITALY
NEM BV	NETHERLANDS
UMAG TECHNOLOGIE GMBH	GERMANY

** THERMO DESIGN INC./ OSVEH INDUSTRIAL GROUP IS ACCEPTABLE FOR HRSG IF AND ONLY IF ENGINEERING AND PERFORMANCE GUARANTEE OF THE PACKAGE IS PROVIDED BY THERMO DESIGN

COMPANY NAME

ORIGIN

1.4.1.4- N2 / O2 UNIT

HAVA ABZAR TEHRAN (HATCO)	IRAN
AIR LIQUIDE	FRANCE
AIR PRODUCT	FRANCE
CRYOTEC AN LAGENBAU	GERMANY
INMATECH	GERMANY
K.M.E	ITALY
LINDE AG	GERMANY
NIHON SANSO	JAPAN
SIAD MACCHINE IMPIANTI	ITALY

1.4.1.5- COOLING TOWER

FARABARD	IRAN
TAVAN AFZAR	IRAN
BALCKE DURE / MARELLY	GERMANY / W.EUROPE
ECODYNE	CANADA
GEA	GERMANY
HAMON INDUSTRIES THERMIQUE	BELGIUM
SPX COOLING TECHNOLOGIES	GERMANY

1.4.1.6- WASTE WATER TREATMENT

ABNIC	IRAN
ARON AB	IRAN
KHERAD ENERGY & ENVIRONMENT	IRAN
MACHINE SAZI VIJEH (MSV)	IRAN
NOVIEN ZOLAL	IRAN
PENDER	IRAN
ZOLALE IRAN	IRAN
DEGREMONT/FARASSAN	FRANCE
IDRECO	ITALY

1.4.1.7- WATER TREATMENT

MACHINE SAZI VIJEH (MSV)	IRAN
PENDER	IRAN
SHAHRAH SHARGH TEHRAN	IRAN
ZOLAL IRAN	IRAN
CECA SA	FRANCE
DEGREMONT/FARASSAN	FRANCE
IDRECO	ITALY
METITO	UK

1.4.1.8- DESALINATION UNIT

FANAZARAB	IRAN
FAN NIRO	IRAN
PENDER	IRAN
VA-THE-VAG	IRAN
ALFA LAVAL	ITALY
AXIOM	AUSTRIA
DEGREMONT	FRANCE
SIDEM	FRANCE

<i>COMPANY NAME</i>	<i>ORIGIN</i>
1.4.1.9- PLANT / INSTRUMENT AIR PACKAGE	
HAVA ABZAR TEHRAN	IRAN
HAVAKARAN SANAT	IRAN
HAVAYAR	IRAN
ATLAS COPCO	GERMANY/SWITZERLAND
BLUTEK	ITALY
INMATECH	GERMANY
KK & K	GERMANY
SIAD MACCHINE IMPIANTI	ITALY

1.4.1.10- INCINERATOR PACKAGE	
BLUTEK	ITALY
DEGREMONT	FRANCE
GBA	ITALY
JOHN ZINK	UK
ITAS	ITALY

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

1.4.2- PROCESS PACKAGE

1.4.2.1- REFRIGERATION PACKAGE	
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
LINDE AG	GERMANY
QUIRT	FRANCE
THI *	SOUTH KOREA
TRANE	FRANCE / BELGIUM
YORK	FRANCE

COMPANY NAME **ORIGIN**

1.4.2.2- DRYER PACKAGE

HAVAYAR	IRAN
SHID GHESHM	IRAN
SUPER ACTIVE	IRAN
CMI INDUSTRIAL HRSG NV	BELGIUM
COEK ENGINEERING	BELGIUM
COHIN	W.EUROPE
ELLMETAL	BELGIUM
FISCHER	FRANCE
G & G INTERNATIONAL NV	BELGIUM
GALA	USA / W.EUROPE
NAT	FRANCE
NATOO	FRANCE
SNIG	FRANCE

1.4.2.3- CHEMICAL INJECTION

CHAMAN (MOHANDESI VA SAKHT)	IRAN
KARDANAN SHARGH Co.	IRAN
MACHIN SAZI NEEV	IRAN
MASIR SABZ DELTA	IRAN
PETRO FANAVARAN FATEH	IRAN
RASTA GROUP GHESHM	IRAN
ATELIER-DE-FOS	ITALY
DKM POMPES SA	FRANCE
DOSARPO MILTON	FRANCE
ECOMACCHINE	ITALY
HOODGVELD PROCESS EQUIPMENT	THE NETHERLANDS
MILTON ROY EUROPE	FRANCE
OMG OFFICINE MECHANICHE GALLARATESI SPA	ITALY
PERONIPOMPE	ITALY
PROMINENT	GERMANY
SALINE WATER SPECIALISTS (SWS)	ITALY
SEKO	ITALY

1.4.2.4- HYDROGEN PACKAGE

BLUTEK	ITALY
LINDE AG	GERMANY

1.4.2.5- PSA

HAVA ABZAR TEHRAN	IRAN
HAVAYAR	IRAN
CRYOTEC AN LAGENBAU	GERMANY

1.4.2.6- HRU

WILL BE ADVISED LATER	
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<i>COMPANY NAME</i>	<i>ORIGIN</i>
1.4.2.7- COLD BOX	
AIR LIQUID	FRANCE
AIR PRODUCT	FRANCE
CASTAIN	UK
KOBELCO	JAPAN
LINDE AG	GERMANY
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
SANTENS ENG. SERNIVICES	BELGIUM

1.4.3- SPECIAL PACKAGE

1.4.3.1- HVAC SYSTEM

1.4.3.1.1- COMPRESSION CHILLING

ABGARDAN	IRAN
ATMOSPHERE	IRAN
CENTIGRAD	IRAN
GHESHM TAHVIEH	IRAN
GOROOH SANATI IRANIAN	IRAN
HAVA SAZ	IRAN
KARA TAHVIEH / KARA SANAT TADBIR PAYA	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
ZAHESH	IRAN
YORK IRAN	IRAN
ROSENBERG	GERMANY

COMPANY NAME

ORIGIN

1.4.3.1.2- ABSORPTION CHILLING

SARI POUYA	IRAN
YORK IRAN	IRAN
ZAHESH	IRAN
EBARA	JAPAN

1.4.3.2- FLARE SYSTEM

MASNOUAT FELEZI SANGIN	IRAN
MASHIN FOULAD JONOUB	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
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
PALAS / BAGLINE	IRAN / ITALY
PEIKAREH / WINDMOLLER & HOLSCHER	IRAN / GERMANY
BEUMER MASCHINEN FABRIK GMBH	GERMANY
STATEC BINDER	AUSTRIA
ZEPHLIN	GERMANY

1.4.3.4- BIG BAG SYSTEM

FARINEH MASHIN	IRAN
MAH MACHIN	IRAN
KRONOS RICHARSON	ITALY

1.4.3.5- DRUM FILLING PACKAGE

FEIGE GMBH	GERMANY
LOG DOS	GERMANY
SIG COMA CO	ITALY

<i>COMPANY NAME</i>	<i>ORIGIN</i>
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
P.H.B	GERMANY
TECHINT TECHNOLOGIES	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
FMC EUROPE SA ENERGY SYSTEMS DIV.	FRANCE
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
ZAFER	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
RMA	GERMANY
TECTUBI	ITALY

COMPANY NAME

ORIGIN

1.5- GENERAL ITEMS

1.5.1- INSULATION

AYEGH PARDIS SAEI	IRAN
BAB	IRAN
GILAN MICA	IRAN
IDEH SAZAN	IRAN
JAHAN AYEGH PARS	IRAN
PASHM & SHISHEH IRAN / THERMO TANK	IRAN
PASHM CERAMIC IRAN	IRAN
PASHM SANG IRAN	IRAN
PASHM SANG VILA	IRAN
PASHM SARBAREH IRAN	IRAN
TARABGIN	IRAN
TARADIS	IRAN
Kd ONE *	SOUTH KOREA

1.5.2- PAINT

AHWAZ RANG (AFTAB)	IRAN
BAJAK	IRAN
GITI ASA	IRAN
GOHAR FAM	IRAN
GOROOH RANG PEDRAM	IRAN
KHODRANG CHEMICAL INDUSTRIES	IRAN
MAHLA	IRAN
NEGIN ZEREH	IRAN
PARS OCEAN	IRAN
PARS PAMCHAL	IRAN
RANA KIMIA	IRAN
RANG ALVAN	IRAN
RANG ARGHAVAN / ARANG SHIMI	IRAN
RANG FIROUZEH SHIRAZ	IRAN
RANG SAZI IRAN	IRAN
RANG SAZI TEHRAN ORANUS	IRAN
RANG SOORMEH	IRAN
RANGDANEH KALA	IRAN
RANGHAYE SANATI IRAN	IRAN
RANGIN	IRAN
RANGIN ZEREH	IRAN
RONASS	IRAN
SANAYE CHEMIYAE BUSHEHR	IRAN
SANYE RANG KROMAT	IRAN
SARV RANG	IRAN
TAKRANG KAR	IRAN
TIF IRAN	IRAN

<i>COMPANY NAME</i>	<i>ORIGIN</i>
1.5.3- FLEXIBLE METAL HOSE	
BOOSHIRAN	IRAN
BURGMANN PARS	IRAN
ZADA	IRAN
GEORGE BOYD	UK
JOHN MORRIS SIEBE	UK
WILLCOX FLUID HANDLING	UK

1.5.4- COATING & WRAPPING	
BAJAC	IRAN
ISO SEAL	IRAN
NIASHIMI	IRAN
TOORSEAL	IRAN
VARZIRAN	IRAN
ALTA	ITALY
LONG PRODUCT	UK
POLYAIM	UK
SERVIWRAP	CANADA/UK

1.5.5- ELECTRODE & FILLER	
AMA	IRAN
ELECTROD YAZD	IRAN
JOSHE & OXYGEN IRAN	IRAN
SANAYE GEOOSH VA ELECTROD	IRAN
BOHLER	GERMANY
ESSAB	SWEDEN
LINCOLN/METRODE	UK
OERLIKON	FRANCE
WELDING ALLOY	UK

1.5.6- NON-METALIC EQUIPMENT/BULK MATERIAL

1.5.6.1- DRUM

FARAPOX SHIRAZ	IRAN
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1.5.6.2- PIPE

AB HAYATE KERMAN (POLYMER)	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 KHORAMSHAHR	IRAN
PARS ETHYLENE KISH	IRAN
SANAYE POLYMER KERMAN (POLYMER)	IRAN
SUPER PIPE (POLYMER)	IRAN

COMPANY NAME

ORIGIN

1.5.6.3- FITTING

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
SUPER PIPE (POLYMER)	IRAN

1.5.6.4- VALVE

WILL BE ADVISED LATER

1.5.7- STEEL PLATES

FOOLAD MOBARAKEH	IRAN
FOOLAD OXIN	IRAN
VOESTALPINE	AUSTRIA

1.5.8- TUBE FOR HEAT EXCHANGER

LOOLEHAYE DAGHIGH KAVEH	IRAN
BENTLER	GERMANY

1.5.9- HEAD OF VESSEL

PARS TECHNIC	IRAN
POULAD SAZAN FARAYAND CO.	IRAN

1.5.10- RUBBER PARTS

BASHIR COMPLEX (SA IRAN)	IRAN
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* Note : These companies approved for 1 year only. After that must be consider again.

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

2.21- ELECTRICAL HEATER FOR PROCESS EQUIPMENT

2.22- MEASUREMENT CENTER

<u>COMPANY NAME</u>	<u>ORIGIN</u>
2.1- POWER TRANSFORMER	
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

ARA TAJHIZ SYSTEM	IRAN
AMAK-KOSHA (BORRI)*	IRAN (ITALY)
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
TRADIS *	IRAN
BENNING	GERMANY
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

* 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)

ARA TAJHIZ SYSTEM	IRAN
BORNA ELECTRONIC	IRAN
JAHAD DANESHGAHI ELM VA SANAT	IRAN
PARS KAVIR ARVAND	IRAN
TAVAN POUYESH	IRAN
ALCAD	SWEDEN
BENNING	GERMANY
C.E.G Electronica Industriale S.p.A	ITALY
CHLORIDE INDUSTRIAL	FRANCE
GUTOR ELECTRONIC LTD	SWITZERLAND
SAFT POWER SYSTEM	FRANCE

<i>COMPANY NAME</i>	<i>ORIGIN</i>
SCHNEIDER GROUP	FRANCE
SIEMENS	GERMANY
SOCOMEK	FRANCE
TOSHIBA CORPORATION	JAPAN

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
LENZE	GERMANY
mitsubishi	JAPAN
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

ARIA SANAT ERAM	IRAN
ARUN ENERGY	IRAN
ELECTRO KAVIR	IRAN
IRAN SEABOK	IRAN
IRAN SWITCH	IRAN
IRAN TABLO	IRAN
JABON	IRAN
KERMAN TABLO	IRAN
LAVAN TABLO	IRAN
NEKA NOVIN	IRAN

<i>COMPANY NAME</i>	<i>ORIGIN</i>
PARS TABLO	IRAN
PARS SANAT PARAND	IRAN
RASEL TABLO	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)

ARIA SANAT ERAM	IRAN
ARUN ENERGY	IRAN
AZAR FONOON 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
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

COMPANY NAME

ORIGIN

2.4.5- LOCAL DISTRIBUTION PANEL (INDUSTRIAL)

ARIA SANAT ERAM	IRAN
ASHTIAN TABLO	IRAN
AZAR FONOON TABLOUE	IRAN
ARUN ENERGY	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
NEKA NOVIN	IRAN
PANTASH	IRAN
PARS TABLOUE	IRAN
PARS SANAT PARAND	IRAN
RASAN	IRAN
SANE SHARGH	IRAN
SATHA	IRAN
TAKSAZ TABLO	IRAN
TALIRAN	IRAN
TAMIN TABLOUE	IRAN
TOLIDE MALZOOMAT BARGH (TMB)	IRAN
YAM	IRAN

2.4.6- LOCAL DISTRIBUTION PANEL (EXPLOSION PROOF)

DARIAN	IRAN
MACHIN SAZI SHOMAL / CEAG	IRAN / GERMANY
NOOR MEHVAR FARS	IRAN
COELBO	ITALY
CORTEM	ITALY
FEAM	ITALY
LEGRAND	FRANCE
SCHUCH	GERMANY
STAHL	GERMANY
WALSALL	UK

2.4.7- CAPACITOR BANK PANEL

ARUN ENERGY	IRAN
MAZHAR NOOR	IRAN
PALAYESH NIROO	IRAN
SANE SHARGH	IRAN
TAKSAZ TABLO	IRAN
TOLIDE MALZOOMAT BARGH (TMB)	IRAN

ALSO SEE 2.4.1 VENDORS

<u>COMPANY NAME</u>	<u>ORIGIN</u>
2.4.8- PROTECTION & CONTROL PANEL	
ARIA SANAT ERAM	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
WALSALL	UK

2.5.2- EXPLOSION PROOF LIGHTING

IRANIAN WAROM GROUP	IRAN
JAHAN NOOR / GLAMOX	IRAN (NORWAY)
MAZI NOOR (SCHUCH)	IRAN (GERMANY)
MACHIN SAZI SHOMAL (CEAG)	IRAN (GERMANY)
NOOR MEHVAR FARS	IRAN
COELBO	ITALY
CORTEM	ITALY
FEAM	ITALY
LEGRAND	FRANCE
NUOVA ASP s.r.l	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

COMPANY NAME

ORIGIN

2.5-4- LIGHTING POLE / ARM / TOWER

AHWAZ FANOUS	IRAN
EHDAS GOSTAR NIROOYE PARS	IRAN
JAR	IRAN
MAZINOOR	IRAN
NOOR KAR (GOLNOOR)	IRAN
NOORSA GOSTAR NOVIN	IRAN
PARS AKHGAR	IRAN
SANYE ROSHANAEE ARM	IRAN
TOLIDE MALZOOMAT BARGH	IRAN

2.5-5- AIRCRAFT WARNING LIGHT

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

SHAYAN BARGH INDUSTRIAL GROUP	IRAN
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2.6- LOCAL CONTROL STATION

2.6.1- INDUSTRIAL CONTROL STATION

DARIAN	IRAN
FARAYAND LAKSAR (ITALSMEA)	IRAN (ITALY)
MACHIN SAZI SHOMAL (CEAG)	IRAN (GERMANY)
CORTEM	ITALY
FEAM	ITALY
LEGRAND	FRANCE
STAHL	GERMANY

2.6.2- EXPLOSION PROOF CONTROL STATION

DARIAN	IRAN
FARAYAND LAKSAR (ITALSMEA)	IRAN (ITALY)
MACHIN SAZI SHOMAL (CEAG)	IRAN (GERMANY)
NOOR MEHVAR FARIS	IRAN
COELBO	ITALY
CORTEM	ITALY
FEAM	ITALY
LEGRAND	FRANCE
STAHL	GERMANY
WALSALL	UK

COMPANY NAME

ORIGIN

2.7- CABLE TRAY /LADDER & ACCESSORIES

2.7.1- METAL CABLE TRAY/CABLE LADDER & ACCESSORIES

AHWAZ FANOUS	IRAN
AJINEH	IRAN
ARAN SHAHAB	IRAN
FARAMIN TABLOUE	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
MACHIN SAZI SHOMAL	IRAN
NOOR MEHVAR FARS	IRAN
COELBO	ITALY
COPER CROUSE-HINDS (CEAG)	GERMANY
CORTEM	ITALY
HAWKE	UK
NUOVA ASP s.r.l	ITALY
OSCG Co.	SOUTH KOREA
STAHL	GERMANY
WALSALL	UK

2.8.2- CONDUIT & FITTING

LOOLEHAYE DAGHIGH KAVEH	IRAN
PARS AKHGAR	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
MACHIN SAZI SHOMAL (CEAG)	IRAN (GERMANY)
CORTEM	ITALY
LEGRAND	FRANCE
NUOVA ASP s.r.l	ITALY
SCHUCH	GERMANY
STAHL	GERMANY
WALSALL	UK

2.8.5- INDUSTRIAL JUNCTION & TERMINAL BOX	
MACHIN SAZI SHOMAL	IRAN
CORTEM	ITALY
ITALSMEA	ITALY
LEGRAND	FRANCE
STAHL	GERMANY
WALSALL	UK

2.8.6- EXPLOSION PROOF JUNCTION & TERMINAL BOX	
DARIAN	IRAN
IRANIAN WAROM GROUP	IRAN
MACHIN SAZI SHOMAL	IRAN
NOOR MEHVAR FARIS	IRAN
COELBO	ITALY
COPER CROUSE-HINDS (CEAG)	GERMANY
CORTEM	ITALY
FEAM	ITALY
ITALSMEA	ITALY
NUOVA ASP s.r.l	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 KERMEN & KAVIAN	IRAN
KABLE MESSIN	IRAN
KHORASAN ELECTRIC INDUSTIRES	IRAN
KABLE METAL	IRAN
KABLE SHAHIN	IRAN
KERMAN ZAR CABLE	IRAN
OFOGHE ALBORZ	IRAN
RASANA CABLE	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
ILJIN ELECTRIC Co. Ltd	SOUTH KOREA
OFOGHE ALBORZ	IRAN
SIM VA KABLE ABHAR	IRAN
SIM VA KABLE MOGHAN	IRAN
SIM VA KABLE YAZD	IRAN
SIMCO	IRAN
FUJI ELECTRIC	JAPAN
LEONI Kerpen	GERMANY
SIEMENS	GERMANY

2.9.3- HIGH VOLTAGE CABLE	
IRAN CABLE MANUFACTURING COMPANY	IRAN
SIM VA KABLE ABHAR	IRAN
OFOGHE ALBORZ	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

<u>COMPANY NAME</u>	<u>ORIGIN</u>
2.9.7- CABLE CLAMP	
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)

CONTRONIC	IRAN
ENERGY KAVIR PAYA	IRAN
GOROOH SANATI FARINEH	IRAN
GOROOH SANATI NEDA	IRAN
KERMAN TABLOUE	IRAN

2.11- ELECTRICAL MOTOR

2.11.1- EXPLOSION PROOF L.V. ELECTRIC MOTOR

GOROOH SANATI FAN GENERATOR	IRAN
JEMCO	IRAN
ABB GROUP	GERMANY
ALSTOM	FRANCE
CEMP	ITALY
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

<u>COMPANY NAME</u>	<u>ORIGIN</u>
2.11.2- INDUSTRIAL L.V. ELECTRIC MOTOR	
ARIAN SANAT	IRAN
GOROOH SANATI FAN GENERATOR	IRAN
JEMCO	IRAN
MOTOGEN	IRAN
SHIRAZ SPECIAL ZONE ELECTRO MOTOR (VEM PARS)	IRAN
TURBO GENERATOR	IRAN
ABB GROUP	GERMANY
ALSTOM	FRANCE
BROOK CROMPTON	UK
CEMP	ITALY
FLENDER	GERMANY
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)
ABB GROUP	GERMANY
ANSALDO SISTEMI INDUSTRIALI	ITALY
BRUSH	UK
FUJI	JAPAN
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)
ABB GROUP	GERMANY
ANSALDO SISTEMI INDUSTRIALI	ITALY
BRUSH	UK
FUJI	JAPAN
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
BBI	ITALY
BETA BARDUCT	UK
BKS	SWITZERLAND
GRAZIADIO	ITALY
EDMUNDSON	UK
FUJI ELECTRIC	JAPAN
HITACHI CABLE	JAPAN
MARELY	ITALY
SCHNEIDER GROUP	FRANCE
SIMELECTRO	FRANCE
ZUCCHINI	ITALY

2.13- FIRE ALARM SYSTEM

GOROOH SANATI NEDA	IRAN
MAZDAK	IRAN
PARS HASSAS	IRAN
ABB GROUP	GERMANY
CERBERUS	SWITZERLAND
DETECTOMAT	GERMANY
SILVANI	ITALY
GEC	UK
HOCHIKI	JAPAN
PHOTAIN CONTROL PLC	UK
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
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
FANAVARI DANESH KHORDEGI	IRAN
FARA SANAT BAN	IRAN
JAHADI DANESHGAHI ELM VA SANAT	IRAN
MOHANDESI MOSHAVER BINA	IRAN
PAYESH SANAT NOVIN	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

<i>COMPANY NAME</i>	<i>ORIGIN</i>
2.15.2- CATHODIC PROTECTION COMPONENT	
2.15.2.1 TRANSFORMER-RECTIFIER	
ARMIN SANAT GOSTARAN	IRAN
BORNA ELECTRONIC	IRAN
JAHADE DANESHGAMI ELM VA SANAT	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)	
REFERENCE IRAN	IRAN
BORNA GODAZ	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
2.15.2.6 CADWELD POWDER	
ERICO	THE NETHERLANDS

<i>COMPANY NAME</i>	<i>ORIGIN</i>
2.15.2.7 HANDY CAP	
CELLPACK	GERMANY
ERICO	THE NETHERLANDS
ROYSTON	USA
2.15.2.8 CATHODIC PROTECTION REMOTE MONITORING AND CONTROL SYSTEM	
REFERANCE IRAN	IRAN
GCP	GERMANY
IMP	UK
REMO SYSTEM LTD	UK
2.15.2.9- FLANGE INSULATION KIT	
PARS PAJOHAN SANAT	IRAN
REFERANCE IRAN	IRAN
2.15.2.10- BOND BOX	
BORNA GODAZ	IRAN
2.15.2.11- PERMANENT & PORTABLE HALF CELL	
BORNA GODAZ	IRAN
2.15.2.12- COOK BREEZE	
BORNA GODAZ	IRAN
2.16- <u>EARTHING & LIGHTNING MATERIAL</u>	
AMAD SANAT PISHTAZ	IRAN
AMOUJ FARAYAND	IRAN
ESPAK	IRAN
KAR PIRA KAVIR	IRAN
NOVIN JOSH	IRAN
PAYA SYSTEM	IRAN
PETONIA	IRAN
TAJHIZAT SYSTEM ZAMIN	IRAN
ABB GROUP	GERMANY
ALLTEC	USA
FURSE	UK
FRANCE PARATONNERRES	FRANCE
INDELEC	FRANCE

COMPANY NAME

ORIGIN

2.17- NEUTRAL GROUNDING RESISTOR

BORNA ELECTRONIC	IRAN
MEHR TAVAN GOSIL	IRAN
ABB GROUP	GERMANY
ALSTOM	FRANCE
FUJI ELECTRIC	JAPAN
mitsubishi	JAPAN
SIEMENS	GERMANY
TOSHIBA	JAPAN

2.18- AC GENERATOR

2.18.1- TURBO GENERATOR

ALSTOM	FRANCE
ELIN	AUSTRIA
HITACHI	JAPAN
MITSUBISHI	JAPAN
SIEMENS	GERMANY
TOSHIBA	JAPAN

2.18.2- EMERGENCY GENERATOR

ABB GROUP	FRANCE
ANSALDO SISTEMI INDUSTRIALI	ITALY
LERROY SOMER	FRANCE
SIEMENS	GERMANY
TOSHIBA	JAPAN

2.18.3- EMERGENCY DIESEL GENERATOR

MOHANDESIN RAAD	IRAN
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2.19- MOBILE SUBSTATION

IRAN TRANSFO	IRAN
FULMEN	IRAN
KERMAN TABLOUE	IRAN
SANE SHARGH	IRAN
TRANS POST PARS	IRAN
ABB GROUP	GERMANY
SIEMENS	GERMANY

COMPANY NAME

ORIGIN

2.20- COMPONENTS

2.20.1- PROTECTION RELAY

<i>COMPANY NAME</i>	<i>ORIGIN</i>
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

<i>COMPANY NAME</i>	<i>ORIGIN</i>
AEG	GERMANY
FINDER	UK
GE	USA/UK
LEGRAND	FRANCE
OMRON	JAPAN
PHOENIX	GERMANY
SCHNIEDER ELECTRIC	FRANCE
SIEMENS	GERMANY
THYTRONIC	ITALY

2.20.3- CONTACTORS

<i>COMPANY NAME</i>	<i>ORIGIN</i>
ABB GROUP	GERMANY
AEG	GERMANY
FUJI	JAPAN
GE	USA/UK
MOELLER	GERMANY
SCHNIEDER ELECTRIC	FRANCE
SIEMENS	GERMANY

2.20.4- AUXILIARY CONTACTORS

<i>COMPANY NAME</i>	<i>ORIGIN</i>
AEG	GERMANY
FINDER	UK
GE	USA/UK
OMRON	JAPAN
PHOENIX	GERMANY
SCHNIEDER ELECTRIC	FRANCE
SIEMENS	GERMANY
THYTRONIC	ITALY

COMPANY NAME *ORIGIN*

2.20.5- FUSE

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- SIGNAL LIGHT

ABB GROUP	GERMANY
ELFIN	ITALY
GE	USA/UK
SCHNIEDER ELECTRIC	FRANCE
SIEMENS	GERMANY

2.20.7- CONTROL SWITCH

ELECTRO KAVEH	IRAN
ROYAN	IRAN
CEAG	GERMANY
GE	USA/UK
K&N	ITALY
MOELLER	GERMANY
SCHNIEDER ELECTRIC	FRANCE
SIEMENS	GERMANY

2.20.8- METERS

FASE	ITALY
FERRER	ITALY
ISKAVA	JAPAN
IME	ITALY
MITSUBISHI	JAPAN
SIEMENS	GERMANY

COMPANY NAME

ORIGIN

2.20.9- CIRCUIT BREAKER

2.20.9.1- LV CIRCUIT BREAKER

2.20.9.1.1- MINIATURE CB

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
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
SCHNIEDER ELECTRIC	FRANCE
SIEMENS	GERMANY

COMPANY NAME *ORIGIN*

2.20.9.2- *MV CIRCUIT BREAKER*

2.20.9.2.1- *VACUUM*

ABB GROUP	GERMANY
AEG	GERMANY
FUJI	JAPAN
GE	UK
SCHNIEDER ELECTRIC	FRANCE
SIEMENS	GERMANY

2.20.9.2.2- *SF6*

ABB GROUP	GERMANY
AEG	GERMANY
ALSTOM	FRANCE
GE	UK
SCHNIEDER ELECTRIC	FRANCE
SIEMENS	GERMANY

2.20.10- *TRANSDUCER*

FERRER	ITALY
GEC	FRANCE
IME	ITALY

2.20.11- *CT's & PT's*

ELECTRO PEJVAK	IRAN
MAG ELECTRIC	IRAN
ABB GROUP	GERMANY
FERRER	ITALY
MITSUBISHI	JAPAN
SCHNIEDER ELECTRIC	FRANCE
SIEMENS	GERMANY
THYTRONIC	ITALY
WATTSUD	ITALY

2.20.12- *TERMINALS*

RAAD	IRAN
RAD IRAN	IRAN
CABUR	ITALY
MITSUBISHI	JAPAN
MOELLER	GERMANY
PHOENIX	GERMANY
SCHNIEDER ELECTRIC	FRANCE
SIEMENS	GERMANY

<i>COMPANY NAME</i>	<i>ORIGIN</i>
2.20.13- SPACE HEATER	
GE	UK
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	
PARS	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	
AFRA	IRAN
PARS	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	
PALAAYESH NIROO	IRAN
2.20.18 FAULT / EVENT RECORDER	
PARDISSAN	IRAN
2.21- ELECTRICAL HEATER FOR PROCESS EQUIPMENT	
MABNA PISHEH	IRAN
ELMESS - Therosystemtechnik GmbH	GERMANY
KLOPPER - THERM GmbH	GERMANY
2.22- MEASUREMENT CENTER	
BASET PAJOUH TEHRAN	IRAN

3.INSTRUMENTATION

3.INSTRUMENTATION

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- 3.4.5- ULTRASONIC TYPE LEVEL TRANSMITTER
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- 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)
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- 3.4.16- CONTROL VALVE (ECCENTRIC PLUG)
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- 3.4.25- TEMPERATURE SELF REGULATING VALVE
- 3.4.26- DESUPER HEATER
- 3.4.27- SAFETY VALVE
- 3.4.28- RUPTURE DISK
- 3.4.29- BREATHER VALVE
- 3.4.30- EMERGENCY VENT VALVE
- 3.4.31- DELUGE VALVE
- 3.4.32- ON / OFF VALVE (BALL)
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- 3.4.34- ON / OFF VALVE (ANGLE)
- 3.4.35- ON / OFF VALVE (GATE)
- 3.4.36- BOTTOM TANK VALVE
- 3.4.37- PISTON TYPE ACTUATOR
- 3.4.38- ELECTRICAL ACTUATOR
- 3.4.39- FILTER REGULATOR
- 3.4.40- SOLENOID VALVE
- 3.4.41- PROXIMITY SWITCH
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- 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- TC, RTD & WELLS
3.4.62- TEMPERATURE TRANSMITTER
3.4.63- FIELD INDICATOR
3.4.64- JUNCTION BOX
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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- INSTRUMENT PIPE & FITTING
3.4.70- INSTRUMENT TUBE & FITTING
3.4.71- SPECIAL VALVES

COMPANY NAME *ORIGIN*

3.1- SYSTEM

3.1.1- DCS / FCS

FARINEH FANAVAR	IRAN
KERMAN TABLOUE	IRAN
MOHANDESI VA SAKHT BARGH VA CONTROL MAPNA (MECO)	IRAN
ABB	GERMANY
EMERSON	UK / FRANCE
HONEYWELL INTL	ITALY / FRANCE / BELGIUM
MTL	UK
SIEMENS	GERMANY
SMAR	BRAZIL
YAMATAKE	JAPAN / W.EUROPE
YOKOGAWA	JAPAN / W.EUROPE

3.1.2- DCS / FCS INTEGRATION

CONTROL POOYAN	IRAN
ENERGY KAVIR PAYA	IRAN
FARANEGAR SANAT	IRAN
FIMCO	IRAN
GOROOH SANATI FARINEH	IRAN
GOROOH SANATI NEDA	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
PARS HASSAS	IRAN
PETROFAN AVAR NIROU IRANIAN	IRAN
TEHRAN TAMAM	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

<i>COMPANY NAME</i>	<i>ORIGIN</i>
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
ROTORC	FRANCE
SIEMENS	GERMANY
YOKOGAWA	THE NETHERLANDS / JAPAN

3.1.6- HIGH INTEGRATION PROTECTION SYSTEM (HIPS)	
HIMA	GERMANY
ICS-TRIPLEX	UK
PALADON SYSTEMS Ltd.	UK
TRICONEX	UK
YOKOGAWA	JAPAN

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
SIEMENS	GERMANY

3.1.8- BMS / ESD SYSTEM INTEGRATION	
AZAR DAGHIGH IRANIAN	IRAN
CONTROL POOYAN	IRAN
ENERGY KAVIR PAYA	IRAN
GOROOH SANATI NEDA	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
PETROFAN AVAR NIROU IRANIAN	IRAN
SIGMA GOSTAR ARYA	IRAN
TEHRAN TAMAM	IRAN

<i>3.1.12- CONTROL PANEL</i>	<i>COMPANY NAME</i>	<i>ORIGIN</i>
CONTRONIC	IRAN	
FARANEGAR SANAT	IRAN	
FARARAVESH	IRAN	
FARS SCOUT	IRAN	
FIMCO	IRAN	
GOROOH SANATI FARINEH	IRAN	
GOROOH SANATI NEDA	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	
PARS HASSAS	IRAN	
TABLO FAZ	IRAN	
TEHRAN TAMAM	IRAN	
TOLIDE MALZOOMATE BARGH	IRAN	
ABB	GERMANY	
AST	ITALY	
SIEMENS	GERMANY	
YAMATAKE	JAPAN	
YOKOGAWA	JAPAN / W.EUROPE	

<i>3.1.13- MIMIC PANEL</i>	<i>COMPANY NAME</i>	<i>ORIGIN</i>
GOROOH SANATI NEDA	IRAN	
KERMAN TABLO	IRAN	
PARS HASSAS	IRAN	
RAHPOUYAN ANDISHEH DENA	IRAN	

<i>3.1.14- CONTROLLER</i>	<i>COMPANY NAME</i>	<i>ORIGIN</i>
ATBIN	IRAN	
ABB	GERMANY	
EMERSON	UK / FRANCE	
EUROTHERM	UK	
FUJI	JAPAN	
HONEYWELL	W. EUROPE	
YAMATAKE	JAPAN	
YOKOGAWA	JAPAN / W.EUROPE	

<i>COMPANY NAME</i>	<i>ORIGIN</i>
3.1.15- SCADA / DATA LOGGER	
FARINEH FANAVAR	IRAN
ABB	GERMANY
EMERSON	UK / FRANCE
FUJI	JAPAN
HITACHI	JAPAN
HONEYWELL	GERMANY
IDS GmbH	GERMANY
YOKOGAWA	JAPAN / W.EUROPE

3.1.16- SCADA / DATA LOGGER INTEGRATION	
CONTRONIC	IRAN
ENERGY KAVIR PAYA	IRAN
GOROOH SANATI PATSA	IRAN
ITA	IRAN
KERMAN TABLO	IRAN
MICRO MOJ	IRAN
PARVARESH DADEHHA	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
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

<i>3.1.19- INDICATOR</i>	<i>COMPANY NAME</i>	<i>ORIGIN</i>
	ATBIN	IRAN
	IRAN MADAR	IRAN
	KERMAN TABLO	IRAN
	PARS HASSAS	IRAN
	SA IRAN	IRAN
	SANAYE ELECTRONIC SHIRAZ	IRAN
	TEHRAN TAMAM	IRAN
	ABB	GERMANY
	EMERSON	UK / FRANCE
	EUROTHERM	UK
	FUJI	JAPAN
	HONEYWELL	W.EUROPE
	YAMATAKE	JAPAN
	YOKOGAWA	JAPAN / W.EUROPE

<i>3.1.20- RECORDER</i>	<i>COMPANY NAME</i>	<i>ORIGIN</i>
	PARS JAHD	IRAN
	ABB	GERMANY
	BARTON	UK
	CHESSILL	GERMANY
	EMERSON	UK / FRANCE
	EUROTHERM	UK
	FUJI	JAPAN
	HONEYWELL	W.EUROPE
	METROWATT	GERMANY
	YAMATAKE	JAPAN
	YOKOGAWA	JAPAN / W.EUROPE

<i>3.1.21- ANNUNCIATION PANEL</i>	<i>COMPANY NAME</i>	<i>ORIGIN</i>
	FARARAVESH	IRAN
	KERMAN TABLO	IRAN
	MAZDAK	IRAN
	PARDISSAN	IRAN
	PARS HASSAS	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

<i>COMPANY NAME</i>	<i>ORIGIN</i>
3.1.22- MARSHALLING AND BARRIER CABINET	
CONTRONIC	IRAN
FARANEGAR SANAT	IRAN
FARARAVESH	IRAN
FARS SCOUT	IRAN
GHESHM VOLTAGE	IRAN
GOROOH SANATI FARINEH	IRAN
GOROOH SANATI NEDA	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
PAYKAR BONYAN	IRAN
TABLO FAZ	IRAN
TAVAN AZMAYAN	IRAN
TEHRAN TAMAM	IRAN
ABB	GERMANY
AST	ITALY
INDUSTRONIC	GERMANY
MTSUBISHI	JAPAN
RICHARDSON	UK
SIEMENS	GERMANY
STAHL	GERMANY

3.1.23- ISOLATING / BARRIER / REPEATER / AMPLIFIER	
BARTECH	W.EUROPE
GM INTERNATIONAL	ITALY
HAWKE	UK
MTL	UK
PEPPERL & FUCHS	GERMANY
PR ELECTRONIC	DENMRK
STAHL	GERMANY
TURCK	UK

<i>COMPANY NAME</i>	<i>ORIGIN</i>
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
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
SHINKAWA	JAPAN
VIBROMETER	SWISS

3.1.28- GOVERNOR / OVER SPEED PROTECTION	
SIEMENS	GERMANY
WOODWARD	UK

<i>COMPANY NAME</i>	<i>ORIGIN</i>
3.1.29- FLOW METERING STATION	
ASIA ABZAR DAGHIGH	IRAN
REZVAN GOSTARE TEHRAN	IRAN
ALDERLEY	UK
AO SMITH	USA / W.EUROPE
BOPP & REUTHER	W.EUROPE
EMERSON	UK
INSTROMET	THE NETHERLANDS
INT SRL	ITALY
ODS Metering Systems B.V.	NETHERLANDS
OVAL	JAPAN
PETROL SRL	ITALY
PETROMAX	UK
PROGETTI	ITALY
SMS	UK
VEMTECH	GERMANY
WHITELY 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 SRL	ITALY

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

3.1.32- HUMAN MACHINE INTERFACE (HMI)	
FARINEH FANAVAR	IRAN
KERMAN TABLOUE	IRAN

3.1.33- WIRELESS INSTRUMENT	
EMERSON	W. EUROPE

3.2- ON - LINE ANALYZER

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

<i>COMPANY NAME</i>	<i>ORIGIN</i>
3.2.2- INFRARED ANALYZER	
ABB	UK / GERMANY
EMERSON	UK / FRANCE
SERVOMEX	UK
SICK	GERMANY
SIEMENS	GERMANY
YOKOGAWA	JAPAN

3.2.3- RAMAN ANALYZER	
EMERSON	UK / FRANCE
HORIBA (JOBIN VYON)	FRANCE

3.2.4- OXYGEN ANALYZER	
ABB	UK / GERMANY
EMERSON	UK
ENDRESS & HAUSER	GERMANY
ENOTEC	GERMANY
FUJI	JAPAN
MSA	THE NETHERLANDS
OXITECH	W.EUROPE
PANAMETRICS	W.EUROPE
SERVOMEX	UK
SICK	GERMANY
SIEMENS	GERMANY
SYSTEC	W.EUROPE
YOKOGAWA	JAPAN

3.2.5- OXYGEN ANALYZER (IN LIQUID)	
ABB	UK / GERMANY
ATI	UK
Dr. THEIDIG	GERMANY
EMERSON	UK / FRANCE
ENDRESS & HAUSER	GERMANY
POLY METRON	FRANCE
YOKOGAWA	JAPAN

3.2.6- H₂ ANALYZER	
ABB	UK / GERMANY
EMERSON	UK / FRANCE
SERVOMEX	UK
SIEMENS	GERMANY
YOKOGAWA	JAPAN

<i>COMPANY NAME</i>	<i>ORIGIN</i>
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
DELMAR	FRANCE
EMERSON	UK
GALVANIC APPLIED SCIENCE	CANADA
MAHAK	W.EUROPE
NOVACHEM	W.EUROPE
ONYX TRACKER	UK
SERVOMEX	UK
SICK	GERMANY
SIEMENS	GERMANY
YOKOGAWA	JAPAN

3.2.10- CHLORINE ANALYZER	
ATI	UK
EMERSON	UK / FRANCE
ENDRESS & HAUSER	GERMANY
JESCO	GERMANY
POLY METRON	FRANCE
YOKOGAWA	JAPAN

3.2.11- SILICA ANALYZER	
ENDRESS & HAUSER	GERMANY
POLY METRON	FRANCE
SWAN	SWITZERLAND

<i>COMPANY NAME</i>	<i>ORIGIN</i>
3.2.12- AMMONIA ANALYZER (IN WATER)	
ABB	GERMANY / UK
Dr. LANGE	GERMANY

3.2.13- PH METER	
ABB	UK / GERMANY
ATI	UK
DKK	JAPAN
EMERSON	UK / FRANCE
ENDRESS & HAUSER	GERMANY
HORIBA	JAPAN
IC CONTROL	W.EUROPE
LISLEMETRIK	GERMANY
METTLER TOLEDO	SWITZERLAND
POLY METRON	FRANCE
SERVOMEX	UK
SIEMENS	GERMANY
SWAN	SWITZERLAND
YOKOGAWA	JAPAN

3.2.14- CONDUCTIVITY METER	
ABB	UK / GERMANY
ATI	UK
BOPP & REUTHER	UK
DKK	JAPAN
EMERSON	UK / FRANCE
ENDRESS & HAUSER	GERMANY
HORIBA	JAPAN
IC CONTROL	W.EUROPE
LISLEMETRIK	GERMANY
METTLER TOLEDO	SWITZERLAND
PEEK MEASUREMENT	UK
POLY METRON	FRANCE
SERVOMEX	UK
SIEMENS	GERMANY
SWAN	SWITZERLAND
THEIS	THE NETHERLANDS
YOKOGAWA	JAPAN

3.2.15- TURBIDITY / COLOR METER	
ATI	UK
EMERSON	UK / FRANCE
LISLEMETRIK	GERMANY
NOVATEC	UK

<i>COMPANY NAME</i>	<i>ORIGIN</i>
3.2.16- ANALYZER INTEGRATION	
ARTIN TAK	IRAN
CONTROL POOYAN	IRAN
FONOONE BARTARE TAV	IRAN
MEHR KANAZ	IRAN
PIRAMOON SYSTEM QESHM	IRAN
RAHBORDHAYE HOOSHMAND	IRAN
SIMA MEHR	IRAN
ZIST ANDISH FISHGAM	IRAN
ABB	W.EUROPE
CEGELEC	FRANCE
HOBRE	NETHERLANDS
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	
SICK	GERMANY
SIEMENS	GERMANY

3.2.19- CH4 ANALYZER	
EMERSON	UK / FRANCE
SICK	GERMANY

3.2.20- ALUMINIUM ALKYL ANALYZER	
JESCO	GERMANY
SIEMENS	GERMANY

3.2.21- SAMPLING SYSTEM	
DOEDUNS	NETHERLANDS
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

<i>COMPANY NAME</i>	<i>ORIGIN</i>
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
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

CONTROL POOYAN	IRAN
ENERGY KAVIR PAYA	IRAN
FONGON BARTAR TAV	IRAN
GOROORH SANATI NEDA	IRAN
IDEH GLOBAL KISH	IRAN
KERMAN TABLOUE	IRAN
MAZDAK	IRAN
MOHANDESI BARGH CONTROL VA ABZARDAGHIGH IDEH	IRAN
NARFOAMKAR	IRAN
PETROFAN AVAR NIROU IRANIAN	IRAN
SARIAK	IRAN
SIGMA GOSTAR ARYA	IRAN
SPIN ELECTRIC	IRAN

3.3.3- GAS AND VAPOR DETECTOR

COMPUTER MONITOR	GERMANY
CROWCON	UK / W.EUROPE
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

<i>COMPANY NAME</i>	<i>ORIGIN</i>
3.3.4- SMOKE DETECTOR	
APOLLO	UK / W.EUROPE
CHUBB	UK / W.EUROPE
CROWCON	UK / W.EUROPE
DETECTOMAT	GERMANY / W.EUROPE
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- HEAT DETECTOR	
APOLLO	UK / W.EUROPE
CHUBB	UK / W.EUROPE
CROWCON	UK / W.EUROPE
DETECTOMAT	GERMANY / W.EUROPE
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- FLAME DETECTOR	
APOLLO	UK / W.EUROPE
CROWCON	UK / W.EUROPE
DETECTOMAT	GERMANY / W.EUROPE
GENERAL MONITOR	UK / W.EUROPE
MINIMAX	UK / W.EUROPE
PHOTAIN	UK / W.EUROPE
PREUSSAG	UK / W.EUROPE
RAMZY	ITALY

3.3.7- MANUAL CALL POINT	
BARTEC	FRANCE / GERMANY
STAHL	GERMANY
THORN	UK

3.3.8- EMISSION MONITORING SYSTEM (EMS)	
CROWCON	UK / W.EUROPE
DURAG	GERMANY
ENVIRONMENTS A	FRANCE

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

3.4- FIELD DEVICE

3.4.1- DISPLACER TYPE LEVEL TRANSMITTER	
DRESSER (MASONELAN)	W.EUROPE
EMERSON	W.EUROPE
FOX BORO	USA / W.EUROPE
MAGNETROL	USA / W.EUROPE
MORITAN	JAPAN
SPRIANO TECHNOLOGIES SRL	ITALY
TAKROL	UK
TOKYO KEISO	JAPAN
YAMATAKE	JAPAN

3.4.2- CAPACITIVE TYPE LEVEL TRANSMITTER	
ENDRESS & HAUSER	GERMANY / W.EUROPE
TOKYO KEISO	JAPAN
VEGA	GERMANY / W.EUROPE

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

3.4.4- RADAR TYPE LEVEL TRANSMITTER	
ENDRESS & HAUSER	GERMANY / W.EUROPE
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- ULTRASONIC TYPE LEVEL TRANSMITTER	
ENDRESS & HAUSER	GERMANY / W.EUROPE
KDG MOBREY	UK
KROHNE	GERMANY / W.EUROPE
MAGNETROL	USA / W.EUROPE
MILTRONIC	GERMANY / W.EUROPE
VEGA	GERMANY / W.EUROPE

<i>COMPANY NAME</i>	<i>ORIGIN</i>
3.4.6- SERVO & FLOAT TYPE LEVEL TRANSMITTER	
ENDRESS & HAUSER	GERMANY
HONEYWELL ENRAF	THE NETHERLANDS / W.EUROPE
TOKYO KEISO	JAPAN
VEGA	GERMANY / W.EUROPE
WHESSOE VAREC	UK

3.4.7- MAGNETIC LEVEL GAUGE	
ESHTE'AL ARAK	IRAN
EYVAZ TECHNIC	IRAN
SANAYE CONTROLI HASSAS	IRAN
TEHRAN DELIK	IRAN
BONETTI	ITALY / W.EUROPE
KROHNE	GERMANY / W.EUROPE
MAGNETROL	USA / W.EUROPE
PHONIX	GERMANY / W.EUROPE
SPRIANO TECHNOLOGIES SRL	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
BONETTI	ITALY / W.EUROPE
MAGNETROL	USA / W.EUROPE
NIHON	JAPAN
PHONIX	GERMANY / W.EUROPE
SPRIANO TECHNOLOGIES SRL	ITALY
TC KLINGER	UK / W.EUROPE
TOKYO KEISO	JAPAN
WISE CONTROL INC.	SOUTH KOREA

3.4.9- LEVEL SWITCH (FLOAT & DISPLACER TYPE)	
ESHTE'AL ARAK	IRAN
EYVAZ TECHNIC	IRAN
TEHRAN DELIK	IRAN
ANALYTIC	GERMANY / W.EUROPE
BESTA	SWITZERLAND
DELTA	W.EUROPE
ENDRESS & HAUSER	GERMANY / W.EUROPE
JUCKER	UK / W.EUROPE
KOBOLD	W.EUROPE
LABKO	FINLAND
MAGNETROL	USA / W.EUROPE
OFFICINE OROBICHE	ITALY
PHONIX	GERMANY / W.EUROPE
SPRIANO TECHNOLOGIES SRL	ITALY
TOKYO KEISO	JAPAN
WISE CONTROL INC.	SOUTH KOREA

3.4.10- LEVEL SWITCH (TUNING FORK TYPE)	
ENDRESS & HAUSER	GERMANY / W.EUROPE
VEGA	GERMANY / W.EUROPE

<u>COMPANY NAME</u>	<u>ORIGIN</u>
3.4.11- LEVEL SWITCH (CAPACITANCE TYPE)	
ARYAN PEJOUHESH	IRAN
ENDRESS & HAUSER	GERMANY / W.EUROPE
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)	
BEHBOOD FARAYAND RADMAN	IRAN
RASTA GROUP GHESHM	IRAN
ABB	GERMANY
ASAHI	JAPAN
BFS INCORPORATION	SOUTH KOREA
BURKERT	GERMANY
CCI	SWITZERLAND
DRESSER	GERMANY / W.EUROPE
EMERSON	ITALY
FLowsERVE CORPORATION	W.EUROPE
FLOW STREAM INTERNATIONAL LTD.	UK
GREEN CONTROL sH.	ITALY
KOREA MOTOYAMA Inc. (KOMOTO)	SOUTH KOREA
KSB	GERMANY
MANKENBER	GERMANY
MASCOT VALVES PVT LTD	AUSTRALIA
METSO FLOW CONTROL (INTERNATIONAL)	FINLAND
MOTOYAMA	JAPAN
PARCOL S.P.A	ITALY
SAMSON	GERMANY
SEOJEON VALMAC Co. LTD	SOUTH KOREA
SEVERN GLOCON	UK
SCHUF ARMATUREN & APPARATEBAU GmbH	GERMANY
UNIFLO Co. Ltd.	SOUTH KOREA
WALDEMAR PRUSS ARMATURENFABRIK GmbH	GERMANY
WEIR VALVE & CONTROL	UK
XOMOX	GERMANY / W.EUROPE
YAMATAKE	JAPAN

3.4.14- CONTROL VALVE (BALL)	
BEHBOOD FARAYAND RADMAN	IRAN
ABB	GERMANY
CCI	SWITZERLAND
DRESSER	W.EUROPE
EMERSON	UK / W.EUROPE
EUROMATIC	ITALY
FLowsERVE CORPORATION	W.EUROPE
KITZ	GERMANY
KOREA MOTOYAMA Inc. (KOMOTO)	SOUTH KOREA
KTM (KITAMUR)	JAPAN
METSO FLOW CONTROL (INTERNATIONAL)	FINLAND
NIHONDIA	JAPAN
PARCOL S.P.A	ITALY
SAMSON	GERMANY
SEOJEON VALMAC Co. LTD	SOUTH KOREA
UNIFLO Co. Ltd.	SOUTH KOREA
VALTEK	UK / W.EUROPE
WALDEMAR PRUSS ARMATURENFABRIK GmbH	GERMANY
WEIR VALVE & CONTROL	UK

<u>COMPANY NAME</u>	<u>ORIGIN</u>
3.4.15- CONTROL VALVE (BUTTERFLY)	
BEHBOOD FARAYAND RADMAN	IRAN
MIRAB	IRAN
RASTA GROUP GHESHM	IRAN
ABB	GERMANY
ADAMS ARMATUREN GmbH	GERMANY
EMERSON	UK / W.EUROPE
GOLD	GERMANY
KITZ	GERMANY
KOREA MOTOYAMA Inc. (KOMOTO)	SOUTH KOREA
METSO FLOW CONTROL (INTERNATIONAL)	FINLAND
PARCOL S.P.A	ITALY
SAMSON	GERMANY
SEVERN GLOCON	UK
TYCO	JAPAN / W.EUROPE
UNIFLO Co. Ltd.	SOUTH KOREA
WEIR VALVE & CONTROL	UK
XOMOX	GERMANY / W.EUROPE
YAMATAKE	JAPAN

3.4.16- CONTROL VALVE (ECCENTRIC PLUG)	
DRESSER	UK / W.EUROPE
EMERSON	UK / W.EUROPE
METSO FLOW CONTROL (INTERNATIONAL)	FINLAND
PARCOL S.P.A	ITALY
SAMSON	GERMANY
SCHUF ARMATUREN & APPARATEBAU GmbH	GERMANY
WEIR VALVE & CONTROL	UK
YAMATAKE	JAPAN

3.4.17- CONTROL VALVE (ANGLE)	
BEHBOOD FARAYAND RADMAN	IRAN
BURKERT	GERMANY
CCI	SWITZERLAND
FLOWSERVE CORPORATION	USA / W. EUROPE / CANADA
KOREA MOTOYAMA Inc. (KOMOTO)	SOUTH KOREA
METSO FLOW CONTROL (INTERNATIONAL)	FINLAND
PARCOL S.P.A	ITALY
SCHUF ARMATUREN & APPARATEBAU GmbH	GERMANY
UNIFLO Co. Ltd.	SOUTH KOREA
WALDEMAR PRUSS ARMATURENFABRIK GmbH	GERMANY

3.4.18- CONTROL VALVE (3 WAY)	
BEHBOOD FARAYAND RADMAN	IRAN
CCI	SWITZERLAND
EMERSON	UK / W.EUROPE
KOREA MOTOYAMA Inc. (KOMOTO)	SOUTH KOREA
KTM	JAPAN
METSO FLOW CONTROL (INTERNATIONAL)	FINLAND
PARCOL S.P.A	ITALY
SAMSON	GERMANY
SCHUF ARMATUREN & APPARATEBAU GmbH	GERMANY
WALDEMAR PRUSS ARMATURENFABRIK GmbH	GERMANY
WEIR VALVE & CONTROL	UK

<i>COMPANY NAME</i>	<i>ORIGIN</i>
3.4.19- CONTROL VALVE (NEEDLE VALVE)	
BEHBOOD FARAYAND RADMAN	IRAN
DRESSER	UK / W.EUROPE
EMERSON	UK / W.EUROPE
KOREA MOTOYAMA Inc. (KOMOTO)	SOUTH KOREA
PARCOL S.P.A	ITALY
WEIR VALVE & CONTROL	UK
YAMATAKE	JAPAN
3.4.20- DIAPHRAGM TYPE CONTROL VALVE	
ASAHI	JAPAN
KITAMURA	JAPAN
NDV	JAPAN
NIPPON DAIYA	JAPAN
PARCOL S.P.A	ITALY
SAUNDRES	UK / W.EUROPE
WEIR VALVE & CONTROL	UK
3.4.21- CONTROL VALVE POSITIONER	
ABB	GERMANY
BURKERT	GERMANY
CCI	SWITZERLAND
EMERSON	JAPAN / W.EUROPE
HONEYWELL	GERMANY
METSO FLOW CONTROL (INTERNATIONAL)	FINLAND
SAMSON	GERMANY
SMAR	BRAZIL
SPRIANO TECHNOLOGIES SRL	ITALY
YAMATAKE	JAPAN / W.EUROPE
YOKOGAWA	JAPAN / W.EUROPE
3.4.22- I/P, P/I & F/P CONVERTOR	
ABB	GERMANY
EMERSON	UK / FRANCE
FOXBORO	USA / W. EUROPE
HONEYWELL	GERMANY
KROHNE	GERMANY
SMAR	BRAZIL
SPRIANO TECHNOLOGIES SRL	ITALY
3.4.23- MOTOR OPERATED VALVE	
AMPO S.COOP. (POYAM VALVES)	SPAIN
L.BERNARD	FRANCE
LIMITORQUE	UK
METSO FLOW CONTROL (INTERNATIONAL)	FINLAND
ROTORK	UK
SCHUF ARMATUREN & APPARATEBAU GmbH	GERMANY
SHIMADZU SEIASKUSHO	JAPAN
3.4.24- PRESSURE SELF REGULATING VALVE	
BEHBOOD FARAYAND RADMAN	IRAN
EYVAZ TECHNIC	IRAN
EMERSON	UK / FRANCE
MANKENBERG	GERMANY
SAMSON	GERMANY
3.4.25- TEMPERATURE SELF REGULATING VALVE	
EYVAZ TECHNIC	IRAN
DUNFOSS	DENMARK
SAMSON	GERMANY

<i>COMPANY NAME</i>	<i>ORIGIN</i>
3.4.26- DESUPER HEATER	
BEHBOOD FARAYAND RADMAN	IRAN
CCI / BTG	SWITZERLAND
COPEES VULCAN	UK
GADELIUS	JAPAN
GREEN CONTROL srl	ITALY
HOPKINSON	UK
KIEKENS	THE NETHERLANDS
KOREA MOTOYAMA Inc. (KOMOTO)	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
AST	ITALY
BOPP & REUTHER	GERMANY
CROSBY	UK
DRESSER	GERMANY
FARRIS	UK
FUKUI	JAPAN
LESER	GERMANY
SAPAG	FRANCE
SEREG	FRANCE
TAI MILANO	ITALY

3.4.28- RUPTURE DISK	
BS & B	UK
ELFAB HUGHES	UK
FIKE	THE NETHERLANDS
LAMOT	W.EUROPE

3.4.29- BREATHER VALVE	
CHYODA	JAPAN
FLAME & FILTER	GERMANY
MARVAI	W.EUROPE
PROTEGO	GERMANY
UNIT INTERNATIONAL	UK
WEHSSOE VAREC	UK

3.4.30- EMERGENCY VENT VALVE	
BS & B	UK
ELFAB HUGHES	UK
FIKE	THE NETHERLANDS
FUKADA	JAPAN
HITACHI	JAPAN
LAMOT	W.EUROPE
METSO FLOW CONTROL (INTERNATIONAL)	FINLAND
SIEMENS	GERMANY

<i>COMPANY NAME</i>	<i>ORIGIN</i>
3.4.31- DELUGE VALVE	
CHUB	UK
PREUSSAG	GERMANY
SILVANI	ITALY

3.4.32- ON / OFF VALVE (BALL)	
BEHBOOD FARAYAND RADMAN	IRAN
ACT	FRANCE
AMPO S.COOP. (Poyam Valves)	SPAIN
DE - YONG KOHEN	FRANCE
FLOW CONTROL TECHNOLOGY	FRANCE
FLOWSERVE ARGUS	GERMANY
GRINELL	W.EUROPE
KITZ	GERMANY
KOREA MOTOYAMA Inc. (KOMOTO)	SOUTH KOREA
KSB	GERMANY
KTM	JAPAN
METSO AUTOMATION	GERMANY
METSO FLOW CONTROL (INTERNATIONAL)	FINLAND
NIPPON	JAPAN
RMT Valvomeccanica S.R.L.	ITALY
SALARI	FRANCE
SCHUF ARMATUREN & APPARATEBAU GmbH	GERMANY
TYCO	JAPAN
UNIFLO Co. Ltd.	SOUTH KOREA
WEIR VALVE & CONTROL	UK

3.4.33- ON / OFF VALVE (BUTTERFLY)	
BEHBOOD FARAYAND RADMAN	IRAN
ERBO	IRAN
MIRAB	IRAN
ADAMS ARMATUREN GmbH	GERMANY
AMPO S.COOP. (POYAM VALVES)	SPAIN
DRESSER	UK / W.EUROPE
GOLD	GERMANY
KOREA MOTOYAMA Inc. (KOMOTO)	SOUTH KOREA
METSO FLOW CONTROL (INTERNATIONAL)	FINLAND
MOTOYAMA	JAPAN
SAMSON	GERMANY
TOMOE VALVE	JAPAN
TYCO	JAPAN
UNIFLO Co. Ltd.	SOUTH KOREA
WEIR VALVE & CONTROL	UK

3.4.34- ON / OFF VALVE (ANGLE)	
ABB	W.EUROPE
AMPO S.COOP. (POYAM VALVES)	SPAIN
DRESSER	UK / W.EUROPE
EMERSON	UK / W.EUROPE
GREEN CONTROL srl	ITALY
KTM	JAPAN
METSO FLOW CONTROL (INTERNATIONAL)	FINLAND
SAMSON	GERMANY
TYCO	JAPAN
WEIR VALVE & CONTROL	UK
YAMATAKE	JAPAN

<i>COMPANY NAME</i>	<i>ORIGIN</i>
3.4.35- ON / OFF VALVE (GATE)	
MIRAB	IRAN
TASISAT BOKHARE ESFAHAN	IRAN
AMPO S.COOP. (POYAM VALVES)	SPAIN
ASAHI	JAPAN
GREEN CONTROL srl	ITALY
MOTOYAMA	JAPAN
WEIR VALVE & CONTROL	UK

3.4.36- BOTTOM TANK VALVE	
BEHBOOD FARAYAND RADMAN	IRAN
METSO FLOW CONTROL (INTERNATIONAL)	FINLAND
RITAGE	GERMANY
SCHUF ARMATUREN & APPARATEBAU GmbH	GERMANY

3.4.37- PISTON TYPE ACTUATOR	
BEHBOOD FARAYAND RADMAN	IRAN
ABB	W. EUROPE
BETTIS	CANADA
BIFFI	W.EUROPE
DVG AUTOMATION SPA.	ITALY
EL-O-MATIC	UK
KOREA MOTOYAMA Inc. (KOMOTO)	SOUTH KOREA
LIMITORQUE	UK / W.EUROPE
METSO FLOW CONTROL (INTERNATIONAL)	FINLAND
PALADON SYSTEMS LTD.	UK
ROTORK	UK
SERVOVALVE	ITALY
TYCO	JAPAN
UNIFLO Co. Ltd.	SOUTH KOREA
WALDEMAR PRUSS ARMATURENFABRIK GmbH	GERMANY

3.4.38- ELECTRICAL ACTUATOR	
AUMA	GERMANY
L.BERNARD	FRANCE
METSO FLOW CONTROL (INTERNATIONAL)	FINLAND
PALADON SYSTEMS LTD.	UK
WALDEMAR PRUSS ARMATURENFABRIK GmbH	GERMANY

3.4.39- FILTER REGULATOR	
PARS REGULATOR	IRAN
SANAYE HAVAYE FESHORDEH	IRAN
DRESSER	UK / W.EUROPE
DRUYA	GERMANY
EMERSON	UK / W.EUROPE
PARKER	UK
PETROVALVE	ITALY
SAMSON	GERMANY
SHOKETSU	JAPAN
SPRIANO TECHNOLOGIES SRL	ITALY
TYCO	JAPAN
YAMATAKE	JAPAN

3.4.40- SOLENOID VALVE	
ALPHA	ITALY
ASCO / JOUCOMATIC	GERMANY / W.EUROPE
BINDURGE	ITALY
BOSCH	GERMANY
BURKERT	GERMANY
FESTO	GERMANY

<i>COMPANY NAME</i>	<i>ORIGIN</i>
HERION	GERMANY
METSO FLOW CONTROL (INTERNATIONAL)	FINLAND
PARKER	UK / JAPAN
REX - ROTH	GERMANY
THOMPSON VALVE	UK
3.4.41- PROXIMITY SWITCH	
TABRIZ PEJOUH	IRAN
ASCO	GERMANY
AUTONIC	KOREA
FESTO	GERMANY
HONEY WELL	BELGIUM
IFM ELECTRONICS	GERMANY
OMRON	JAPAN
PEPPERL & FUCHS	GERMANY
3.4.42- PIG DETECTOR	
SAVAY	IRAN
3.4.43- VALVE LOCKING DEVICE	
CAMERON FRANCE SA	FRANCE
FLOWSERVE AHAUS GMBH	GERMANY
SMITH FLOW CONTROL LTD.	UK
VOMOX INTL GMBH	GERMANY
WEIR VALVES & CONTROLS	UK
3.4.44- N2 BLANKETING SYSTEM	
EMERSON	UK / FRANCE
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

<i>COMPANY NAME</i>	<i>ORIGIN</i>
3.4.47- ULTRASONIC FLOWMETER	
3.4.47.1- ULTRASONIC FLOWMETER (LIQUID)	
FAURE HERMAN	FRANCE
FUJI	JAPAN

3.4.47.2- ULTRASONIC FLOWMETER (GAS)	
FUJI	JAPAN
INSTRUMENT	THE NETHERLANDS
SICK	GERMANY

3.4.47.3- FLOW COMPUTER	
EMERSON	UK
ENDRESS & HAUSER	GERMANY
KROHNE	GERMANY
OVAL	JAPAN
YOKOGAWA	JAPAN
SPRIT IT	THE NETHERLANDS

3.4.48- MAGNETIC FLOWMETER	
BOPP & REUTHER	W.EUROPE
EMERSON	UK / FRANCE
ENDRESS & HAUSER	GERMANY
FUJI	JAPAN / FRANCE
KROHNE	GERMANY
KOBOLD	W.EUROPE
SIEMENS	GERMANY
YAMATAKE	JAPAN
YOKOGAWA	JAPAN

3.4.49- VORTEX FLOWMETER	
BOPP REUTHER	GERMANY
EMERSON	UK / FRANCE
HONTZSCH	GERMANY
KROHNE	GERMANY
OVAL	JAPAN
YOKOGAWA	JAPAN

3.4.50- POSITIVE DISPLACEMENT METER	
AUSTRIA	ITALY
BOPP & REUTHER	W.EUROPE
EMERSON	UK / FRANCE
OVAL	JAPAN
SIEMENS	GERMANY
SMITH	UK
YAMATAKE	JAPAN

<i>COMPANY NAME</i>	<i>ORIGIN</i>
3.4.51- TURBINE METER	
ABFAR (For Water)	IRAN
AUSTRIA	ITALY
BOPP & REUTHER	W.EUROPE
EMERSON	UK / FRANCE
FAURE HERMAN	FRANCE
OVAL	JAPAN
SCHLUMBERGER	FRANCE
SMITH	UK

3.4.52- ROTAMETER	
AZMOON MOTAMAM	IRAN
BOPP& REUTHER	UK
DOHKITA	JAPAN
EMERSON	UK / FRANCE
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	
EMERSON	UK / FRANCE
KOBOLD	GERMANY
KROHNE	GERMANY

3.4.55- ORIFICE PLATE	
AZMOON MOTAMAM	IRAN
PARS JAH	IRAN
PETRO DEGHAAT PART	IRAN
SANGAN SANAT	IRAN
SINA CONTROL	IRAN
DELTAFLUID	FRANCE
EISPA	SPAIN
EMERSON	UK / FRANCE
EUROMISURE	UK / FRANCE
OKAZAKI	JAPAN
SPRIANO TECHNOLOGIES SRL	ITALY
TERCOM	ITALY
WISE CONTROL INC.	SOUTH KOREA

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

3.4.56- VENTURI TUBE AND NOZZLE	
SINA CONTROL	IRAN
BARTHEL	GERMANY
DELTAFLUID	FRANCE
EMERSON	UK / FRANCE
SPRIANO TECHNOLOGIES SRL	ITALY
WISE CONTROL INC.	SOUTH KOREA
TECNOMATIC	ITALY

COMPANY NAME **ORIGIN**

3.4.57- ANNUBAR

AZMOON MOTAMAM	IRAN
PARS JAHD	IRAN
ABB	W.EUROPE
BUSH BEACH ENGINEERING	UK
DELTAFLUID	FRANCE
EMERSON	UK / FRANCE
SPRIANO TECHNOLOGIES SRL	ITALY
TERCOM	ITALY
YOKOGAWA	JAPAN

3.4.58- PRESSURE & TEMPERATURE GAUGE

FARAYAND LAKSAR / RUEGER	IRAN / SWITZERLAND
SANGAN SANAT	IRAN
SCHMIERER PARS / SCHMIERER	IRAN / GERMANY
ASHCROFT	UK
BADOTHERM	THE NETHERLANDS
BOURDON	FRANCE
ELFAB HUGHES	UK
ETTORE CELLA	ITALY
NOUVA FIMA	ITALY
SPRIANO TECHNOLOGIES SRL	ITALY
STEWARTS	UK
WIKA	GERMANY
WISE CONTROL INC.	SOUTH KOREA

3.4.59- PRESS. & TEMP SWITCH

KELIDHAYE AUTOMATIC	IRAN
ASHCROFT	UK
BETA	THE NETHERLANDS
CELLA	ITALY
DELTA-CONTROLS	UK
HERION	GERMANY
UNITED ELECTRIC	W.EUROPE
WIEGAND	GERMANY
WISE CONTROL INC.	SOUTH KOREA

3.4.60- PRESS. & DIFFERENTIAL PRESS. TRANSMITTER

PARS ELECTRONIC KISH *	IRAN
PARS JAHD	IRAN
ABB	W.EUROPE
EMERSON	UK / FRANCE
ENDRESS & HAUSER	GERMANY
FUJI	JAPAN
HONEYWELL	BELGIUM
SAKURA ENDRESS	JAPAN
SIEMENS	GERMANY
SMAR	BRAZIL
SPRIANO TECHNOLOGIES SRL	ITALY
YAMATAKE	JAPAN
YOKOGAWA	JAPAN

* Without SIL Certificate

<i>COMPANY NAME</i>	<i>ORIGIN</i>
3.4.61- T/C, RTD & WELLS	
ATBIN	IRAN
FARAYAND LAKSAR / RUEGER	IRAN / SWITZERLAND
DELTAFLUID	FRANCE
EISPA	SPAIN
EMERSON	UK / FRANCE
ENDRESS & HAUSER	GERMANY
EUROMISURE	ITALY
FUJI	JAPAN
INT SRL	ITALY
NAGANO	JAPAN
NILGATA	JAPAN
PYRO CONTROLE SAS.	FRANCE
THERMO ELECTRIC	UK
WISE CONTROL INC.	SOUTH KOREA

3.4.62- TEMPERATURE TRANSMITTER	
PARS ELECTRONIC KISH *	IRAN
PARS JAHD	IRAN
ABB	W.EUROPE
EMERSON	UK / FRANCE
ENDRESS & HAUSER	GERMANY
FOXBORO	UK
FUJI	JAPAN
HONEYWELL	BELGIUM
SAKURA ENDRESS	JAPAN
SIEMENS	GERMANY
SMAR	BRAZIL
SPRIANO TECHNOLOGIES SRL	ITALY
YAMATAKE	JAPAN
YOKOGAWA	JAPAN

* Without SIL Certificate

3.4.63- FIELD INDICATOR	
GEROEGIN	FRANCE
SMAR	BRAZIL
VEGA	GERMANY

3.4.64- JUNCTION BOX	
3.4.64.1- EX - JUNCTION BOX	
DARIAN	IRAN
MACHIN SAZI SHOMAL	IRAN
CHALMIT	UK
COPER CROUSE-HINDS (CEAG)	GERMANY
CORTEM SPA	ITALY
HAWKE	UK
NUOVA	ITALY
SABER	ITALY
STAHL	GERMANY

<i>COMPANY NAME</i>	<i>ORIGIN</i>
3.4.64.2- INDUSTRIAL - JUNCTION BOX	
IMAN AFZAR	IRAN
NOUR MEHVAR FARS	IRAN
PAJOHAN SANAT PARS	IRAN
3.4.65- CABLE GLAND	
DARIAN	IRAN
MACHIN SAZI SHOMAL	IRAN
BICC	UK
HAWKE	UK
NUOVA	ITALY
STAHL	GERMANY
3.4.66- INSTRUMENT CABLE	
KABLE ALBORZ	
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
SIM VA KABL ABHAR	IRAN
SIM VA KABL MOGHAN	IRAN
SIMBAF	IRAN
SIMCO	IRAN
ZARSIM	IRAN
AEG	GERMANY
BICC	UK
CABLE DE LYON	FRANCE
KERPENWERK	GERMANY
NEXANS (ALCATEL)	FRANCE
SIEMENS	GERMANY
3.4.67- CABLE TRAY / LADDER	
AHWAZ FANOUS	IRAN
AJNEH	IRAN
FARAMIN TABLO	IRAN
PAJOHAN SANAT PARS	IRAN
PANJTASH	IRAN
SATEHA	IRAN
TOSEH SANAYE PETRO FOOLADE GHARB	IRAN
VANASHID	IRAN
YEKTA	IRAN
3.4.68- INSTRUMENT VALVE	
MACHIN SAZI NEEV	IRAN
DELTAFLUID	FRANCE
EMERSON	UK / FRANCE
HANSUN ENGINEERING CO. LTD.	SOUTH KOREA
KEYSTONE	UK
OLIVER VALVE	W.EUROPE
PARKER	UK
VIMEC	W.EUROPE

<i>COMPANY NAME</i>	<i>ORIGIN</i>
3.4.69- INSTRUMENT PIPE & FITTING	
ESFAHAN MAYSAM	IRAN
FOOLAD ASA	IRAN
GHARB FLANGE	IRAN
GOROOH SANATI SADID	IRAN
LOOLE SAZI KHOZESTAN	IRAN
LOOLE VA PROFILE SAVEH	IRAN
NAVARD LOOLE AHWAZ	IRAN
SEPAHAN	IRAN
SEPENTA	IRAN
TOOS PAYVAND	IRAN
VOG IRAN	IRAN
BASSI LUIGI	ITALY
CAPEX	CANADA
CAPITAL VALVE	UK
COPROSIDER	ITALY
DALMINE	SWEDEN
DEL CORTE	FRANCE
HANSUN ENGINEERING CO. LTD.	SOUTH KOREA
ICARUS	BELGIUM
IML	ITALY
INTERMETAL	FRANCE / UK
KOBE STEEL	JAPAN
KURVERS	GERMANY / FRANCE
LUEBECK	THE NETHERLANDS
MANNESMAN HANDLE	GERMANY
MID STEEL PIPELINE	UK
PHOCEENNE	FRANCE / BELGIUM
SANDVIK	SWEDEN
SIDERINT	UK
STAHL HANDEL	GERMANY / THE NETHERLANDS
STRAVAL	FRANCE
SUMITOMO METAL	JAPAN
TAD	ITALY
TECTUBI	ITALY / FRANCE
VAN LEEUWEN	THE NETHERLANDS / BELGIUM

<i>COMPANY NAME</i>	<i>ORIGIN</i>
3.4.70- INSTRUMENT TUBE & FITTING	
AJHR	IRAN
ALL METAL	IRAN
LOOLEHAYE DAGHIGHE KAVEH	IRAN
MACHIN SAZI NEEV	IRAN
PARS REGULATOR	IRAN
SANAYE HAVAYE FESHORDEH	IRAN
TOOS PEYVAND	IRAN / UK
CAPITAL VALVE	UK
FITOK	USA
FESTO	GERMANY
GYROLOCK	UK
HANSUN ENGINEERING CO. LTD.	SOUTH KOREA
HOKE	UK
JANDUIC	ITALY
MANNESMAN	GERMANY
MID STEEL PIPELINE	UK
PARKER	UK
ROTAREX	LUXEMBURG
SWAGELOCK	GERMANY

<i>COMPANY NAME</i>	<i>ORIGIN</i>
3.4.71- SPECIAL VALVES	
SCHUF ARMATUREN & APPARATEBAU GmbH	GERMANY

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)
 - 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

4.6- 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

4.7- 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
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
MOGHAN CABLE	IRAN
OFOGHE ALBORZ CABLE	IRAN
SIMBAF	IRAN
SIMCO	IRAN
SIM VA CABLE MASHAD	IRAN
TAK CABLE	IRAN

4.1.3- TRANSMISSION EQUIPMENT & ACCESSORIES

4.1.3.1- OPTICAL BASED SYSTEM

PARSTEL	IRAN
ERICSSON	SWEDEN
WESTERMO TELEINDUSTRI AB	SWEDEN

4.1.3.2- SDH SYSTEM

ERICSSON	SWEDEN
NEC	JAPAN

<i>COMPANY NAME</i>	<i>ORIGIN</i>
4.1.3.3- COPPER WIRE BASED SYSTEM	
PARSTEL	IRAN
TELLMAR	IRAN
ERICSSON	SWEDEN
NEC	JAPAN
SIEMENS	GERMANY
WESTERMO TELEINDUSTRI AB	SWEDEN

4.1.3.4- RADIO BASED SYSTEM	
PARSTEL	IRAN
TELLMAR	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
GORD ASIA	IRAN
MICRO MOJ	IRAN
SAEDANE SANAT	IRAN
SANAYE BONYAD POSHESH	IRAN
SANAYE ERTEBATI ZAEIM	IRAN
SANAYE MOKHABERATI (SA IRAN)	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

TELEFONSAZAN YAZD	IRAN
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<u>COMPANY NAME</u>	<u>ORIGIN</u>
4.2.2- SWITCH SYSTEM	
DIGITRON	IRAN
KARA TELEPHONE	IRAN
PARS TELEPHONE KAR	IRAN
SANAYE ERTEBATI IRAN	IRAN
SANAYE ERTEBATI PAYA (KARIN)	IRAN
SANAYE ERTEBATI RAHE DOOR	IRAN
SANAYE MOKHABERATI (SA IRAN)	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 ERTEBATI RAHE DOOR	IRAN
SANAYE ERTEBATI ZAEIM	IRAN
SANAYE MOKHABERATI (SA IRAN)	IRAN

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 ERTEBATI RAHE DOOR (ITI)	IRAN
SANAYE ERTEBATI ZAEIM	IRAN
SANAYE MOKHABERATI (SA IRAN)	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

SARYAK	IRAN
ECHOCHANG	IRAN
HORAND	IRAN
MAZDAK	IRAN
SARYAK	IRAN

4.4.2- INDUSTRIAL

INDUSTRONIC	GERMANY
IWATSU	JAPAN
NEUMANN	ITALY

4.4.3- NON INDUSTRIAL

TO BE ADVISED LATER.	
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4.4.4- CONFERENCE SYSTEM

HORAND	IRAN
PANASONIC	JAPAN
PHILIPS	NETHERLANDS
SONY	JAPAN
TELEVIC	SWITZERLAND

4.4.5- EXPLOSION PROOF

INDUSTRONIC	GERMANY
INTEL	ITALY
IWATSU	JAPAN
NEUMANN	ITALY

COMPANY NAME

ORIGIN

4.5- CCTV

4.5.1- CCTV SYSTEM (FIX & PC BASE)

4.5.1.1- SECURITY

ADISH ELECTRONIC	IRAN
ALKA PARDAZ TABRIZ	IRAN
ARDAL	IRAN
BAZARGANI ARIAN	IRAN
DENA SANAT	IRAN
FAN AVARAN TASVIR	IRAN
GITA VARZ	IRAN
IRAN AMVAJ ELECTRONIC	IRAN
MICRO NARM AFZAR	IRAN
OFOGH ROSHAN DENA	IRAN
RAH AVARD ELECTRONIC	IRAN
RAH ROSHD	IRAN
SHAYAN	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
DENA SANAT	IRAN
OFOGHE ROSHAN DENA	IRAN
PATSA	IRAN
RAH ROSHD	IRAN
SANAYE ERTEBATI ZAEIM	IRAN
SANAYE MOKHABERATI (SA IRAN)	IRAN
SANAYE OPTIC ESFAHAN	IRAN
SARYAK	IRAN
INTEL	ITALY
HERNIS	NORWAY
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

4.6- 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

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

4.6.3- OFFICE TELEPHONE SET

	SANAYE ERTEBATI PAYA	IRAN
	SANAYE MOKHABERATI (SA IRAN)	IRAN
	ALCATEL	FRANCE
	SIEMENS	GERMANY
	PANASONIC	JAPAN

<i>4.6.4- FAX SYSTEM</i>	<u>COMPANY NAME</u>	<u>ORIGIN</u>
	EPSON	JAPAN
	HP	USA
	PANASONIC	JAPAN
	PHILIPS	NETHERLANDS
	RICO	JAPAN
	SHARP	JAPAN

<i>4.6.5- CENTRAL AND IP PHONE/PABX SYSTEM</i>	<u>COMPANY NAME</u>	<u>ORIGIN</u>
	AVA COMMUNICATION	IRAN
	ERICSSON	SWEDEN
	PANASONIC	JAPAN
	SIEMENS	GERMANY

<i>4.7- NETWORK SWITCH</i>	<u>COMPANY NAME</u>	<u>ORIGIN</u>
	3COM	USA
	BELDEN	USA
	D-LINK	USA
	SISCO	USA
	WESTERMO TELEINDUSTRI AB	SWEDEN

<i>4.8- ETHERNET SWITCH</i>	<u>COMPANY NAME</u>	<u>ORIGIN</u>
	HIRCHAMANN	GERMANY
	WESTERMO TELEINDUSTRI AB	SWEDEN

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 VAPOURE 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 POWDER FILLING MACHINE.

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

5.3- 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

CASELLA-CEL	UK
HOLA DAY	USA / W.EUROPE

5.1.2. SOUND LEVEL METER

BRÜEL & KJÆR	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>
5.1.9. FIT TEST FOR BREATHING MASK	
DRÄGER	GERMANY
FENZY	FRANCE
MSA	USA / W.EUROPE

5.1.10- POTABLE WATER QC EQ.	
HACH	USA
ZULLIG AG	SWITZERLAND

5.1.10.1- MICROBIOLOGY	
ZULLIG AG	SWITZERLAND

5.2. SAFETY & FIRE FIGHTING

5.2.1- FIXED EQUIPMENT

5.2.1.1- WATER SPRAY, SPRINKLER SYSTEM

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
TOTAL FEURCHUTZ	GERMANY
VIKING	USA / W.EUROPE

5.2.1.2- FOAM SYSTEM

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

<i>COMPANY NAME</i>	<i>ORIGIN</i>
5.2.1.3- WATER SUPPLY (HYDRANTS , MONITORS & REELS)	
IMEN SAHAND ARYA	IRAN
IMEN TIAR (WET ONLY)	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- POST INDICATOR VALVE	
ANGUS FIRE	UK
KENEDY VALVE	CANADA
5.2.1.3.2- SELF OSCILLATING MONITOR	
POK	FRANCE
SHILLA FIRE	KOREA
5.2.1.4- FIRE FIGHTING PUMP ON TRUCK	
GODAIVA	UK
ROSENBAURE	GERMANY / AUSTRIA
SIDES	FRANCE
ZIEGLER	GERMANY
5.2.1.5- FIRE BOX	
DENA SHIRAZ	IRAN
ETFAYE HARIGHE BOSTAN	IRAN
EAMEN PARS	IRAN
IMEN SAHAND ARYA	IRAN
IMEN TIAR	IRAN
KIMIAGAR	IRAN
NARFOAMKAR	IRAN
NEGAHBAN	IRAN
5.2.1.6- GAS DETECTOR SYSTEM	
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	
EUSEBI IMPIANTI	ITALY

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
PISHROW	IRAN
TOCHAL	IRAN
YADEGAR	IRAN
ANGUS FIRE LTD.	UK
BAVARIA	GERMANY
CHUBB FIRE	UK
GLORIA	GERMANY
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

COMPANY NAME

ORIGIN

5.2.2.2- FIRE MONITOR

AZAR KHODRO	IRAN
IMEN SAHAND ARYA	IRAN
IMEN TIAR	IRAN
MACHIN ATASHMAHAR NO	IRAN
SANATKARAN BERMV CO.	IRAN
SANGUIN KAR SANAT	IRAN
ALCO CONTROLS GmbH	GERMANY
ANGUS FIRE LTD.	UK
ELKHARTE	UK
MORITA	JAPAN
POK	FRANCE
SILVANI	ITALY
TOTAL WALTHER	GERMANY
ZIEGLER	GERMANY

5.2.2.3- PUMP FOR FIRE ENGINE

AZAR KHODRO	IRAN
SANATKARAN BERMV 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
SANATKARAN BERMV 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

<i>COMPANY NAME</i>	<i>ORIGIN</i>
5.2.3.2- POWDER TRUCK , RESCUE TRUCK & LADDER , MULTI - PURPOSE	
ATASH MAHAR NO	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- GENERAL FIRE FIGHTING MATERIALS & ACCESSORIES

5.2.4.1- HOSES

ANGUS FIRE LTD.	UK
G & H (GOLLMER & HUMMEL)	GERMANY
MEHLER	GERMANY
NAFFCO	UK
ROSENBAUER	GERMANY / AUSTRIA
TOTAL WALTHER	GERMANY
ZIEGLER	GERMANY

5.2.4.2- FITTING, COUPLING & ADAPTOR

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

COMPANY NAME

ORIGIN

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
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)

COMPANY NAME

ORIGIN

5.2.6- RESCUE SYSTEM EQUIPMENT

BEAL	ITALY
HE / MATRO	NETHERLANDS
LUCAS	UK
NORTH SAFETY	CANADA / W.EUROPE
PETZL	FRANCE
ROSENBAUER	GERMANY / AUSTRIA
ZIEGLER	GERMANY

5.2.7- SAFETY DEVICES

[PPE (PERSONAL PROTECTIVE EQUIPMENT)]

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- SPECIAL ITEMS

5.2.8.1- FALL PROTECTION EQUIPMENT

PETZL	FRANCE
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5.2.8.2- SAFTY VESTS AND SUB SEA WORK EQ.

PETZL	FRANCE
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COMPANY NAME

ORIGIN

5.2.8.3- CHEMICAL RESISTANCE ANTI-FIRE CLOTHING

MOJTAMA BESAT	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

5.3- 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
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

WILL BE ADVISED LATER

5.3.6- UNDER GROUND WATER MONITOR & ANALYZER

KPSI	USA / W.EUROPE
SEBA	GERMANY

5.3.7- OIL MIST COLLECTORS

WILL BE ADVISED LATER

5.3.8- ONLINE ANALYZER

5.3.8.1- GAS ON-LINE ANALYZER

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
HACH-LONGE	USA/GERMANY
LAR	GERMANY
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

5.3.8.4- SYSTEM ON-LINE ANALYZER

WILL BE ADVISED LATER	GERMANY
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5.4- QUALITY

WILL BE ADVISED LATER

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
AZAR FELEZAN	IRAN
ESKELETHAI FOOLAD VA MAKHAZEN IRAN	IRAN
ESTA FELEZ	IRAN
FOOLAD FAN	IRAN
FOOLAD NAGHSH EURASIA	IRAN
FOOLAD PAYA	IRAN
JAHANKAR ESFAHAN	IRAN
KARA SAZEH KIMIYA	IRAN
KAROOON SAZEH	IRAN
KOOSHA ENERGY TABARESTAN	IRAN
MACHINE AJZA	IRAN
MACHIN SAZI AZARBAYJANI	IRAN
MACHIN SAZI ARAK	IRAN
MACHIN SAZI PARS	IRAN
MACHIN SAZI SAZEHA YEH SANATI ASTOTOOS	IRAN
METEC	IRAN
MILAD	IRAN
MOHANDESI SABZ ASHIAN APADANA	
NAFT SAZEH GHESHM	IRAN
NASB SAMAN ARAK	IRAN
NEYRPERIS	IRAN
PAYBAND SAZEH	IRAN
PAYSAZ	IRAN
SADAD MACHIN	IRAN
SANAYE FELEZI IRAN	IRAN
SANAYE KOLAHDOZ	IRAN
SAZEHAYEH FELEZI SHAHRYAR	IRAN
SAZVAR SAZEH AZARESTAN	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
BETON SHIMIE KHAVARMIANEH	IRAN
CLINIC SAKHTEMANI IRAN	IRAN
DAMAVAND SEPID	IRAN
FARAVARDEHYE SHIMIAEI SAKHTEMAN	IRAN
FOMAN SHIMI	IRAN
MOHANDESI SHIMI IRAN	IRAN
REZIN BETON BARTAR	IRAN
SANATI REZIN SAZAN FARS	IRAN
SANAYE SHIMI SAKHTEMAN ABADGARAN	IRAN
SHIMI SAKHTEMAN	IRAN
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
CLINIC SAKHTEMANI IRAN	IRAN
FIROZ GAM	IRAN
ISOGAM	IRAN
PASHM SANG IRAN	IRAN
POM CO	IRAN
SANAYE SHIMI SAKHTEMAN ABADGARAN	
SHIMI SAKHTEMAN	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

AHVAZ FANOOS	IRAN
ALFA SAM	IRAN
ARAK RAIL	IRAN
DOZHPAD	IRAN
FAZA SAZAN AMIN	IRAN
FELEZ SAZEH	IRAN
FOOLAD DRAKSHAN	IRAN
FOOLAD PERESS	IRAN
GHATEATE FOOLADI	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
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

FABIS	IRAN
GHATATE FOOLADI	IRAN
MAMOUT	IRAN

6.12- BRIDGE CRANE (E.O.T)

AHROM VAZIN	IRAN
ARIAN	IRAN
FIROZA	IRAN
IRAN SAKHT CRANE	IRAN
MACHIN SAZI MANGAN	IRAN
MACHIN SAZI PARS	IRAN
SADAD MACHIN	IRAN
SHAHANG VAZIN	IRAN
TEFLER	IRAN
VAZNEH PARS	IRAN

6.13- SPECIAL DOOR (EXPLOSION PROOF)

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

	<i>COMPANY NAME</i>	<i>ORIGIN</i>
6.16- <u>NEW MAT'S / COMPONENTS</u>		
	SECO	IRAN
6.17- <u>PRE-FABRICATED BUILDING</u>		
6.17.1- CONCRETE		
	WILL BE ADVISED LATER	
6.17.2- NON-CONCRETE / CONEX		
	WILL BE ADVISED LATER	
6.18- <u>ANCHOR BOLTS</u>		
	AHVAZ FANOOS	IRAN
6.19- <u>LIGHT WEIGHTED MAT'S</u>		
	HEBLEX	IRAN
6.20- <u>ACID PROOF TILES</u>		
	ANZAN SANAT POLYMER	IRAN
6.21- <u>ACID PROOF MORTARS</u>		
	WILL BE ADVISED LATER	
6.22- <u>GLASS</u>		
6.22.1- NORMAL		
	SHISHEH GHAZVIN	IRAN
6.22.2- ARMY		
	SHISHEH GHAZVIN	IRAN
6.22.3- SECURIT		
	SHISHEH GHAZVIN	IRAN
6.22.4- DOUBLE GLAZED		
	SHISHEH GHAZVIN	IRAN
6.22.5- REFLECTOR/ MIRROR (CONCAVE, CONVEX, FLAT)		
	SHISHEH GHAZVIN	IRAN

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

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

ORIGIN

7.3- CHEMICALS / ADDITIVES / ABSORBENTS

ABTIN REZIN	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
KAROOON 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 SHIMIA YEE	IRAN
SHIMIA YEE 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
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 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 PERMEATION 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- AIR / N2 / H2 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
- 8.16.5- 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
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

COMPANY NAME

ORIGIN

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
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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

WILL BE ADVISED LATER

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



<i>COMPANY NAME</i>	<i>ORIGIN</i>
<i>8.10.1.5- DIFFERENTIAL THERMAL ANALYZER (DTA)</i>	
METTLER	SWITZERLAND
PERKIN ELMER	USA / W.EUROPE
PHILIPS	THE NETHERLANDS
<i>8.10.1.6- BALL DROP</i>	
CEAST	ITALY
<i>8.10.1.7- ELECTRICAL RESISTANCE METER</i>	
CEAST	ITALY
ZWICK	GERMANY
<i>8.10.1.8- ENVIRONMENT STRESS CORROSION RESISTANCE(ESCR)</i>	
CEAST	ITALY
RAY RAN	W.EUROPE
ZWICK	GERMANY
<i>8.10.1.9- GLOSS METER</i>	
AMETEC / DAVEN PORT	W.EUROPE
CEAST	ITALY
GARDNER	JAPAN
ZWICK	GERMANY
<i>8.10.1.10- DENSITY METER (GRADIENT)</i>	
GARD CO.	JAPAN
<i>8.10.1.11- HARDNESS TESTER</i>	
WILL BE ADVISED LATER	
<i>8.10.1.12- HAZE METER</i>	
GARDNER	JAPAN
<i>8.10.1.13- HDT / VICAT</i>	
WILL BE ADVISED LATER	
<i>8.10.1.14- IZOD IMPACT</i>	
AMETEC / DAVEN PORT	W.EUROPE
CEAST	ITALY
ZWICK	GERMANY
<i>8.10.1.15- MELT FLOW INDEX (MFI)</i>	
CEAST	ITALY
ZWICK	GERMANY



<u>COMPANY NAME</u>	<u>ORIGIN</u>
8.10.1.16- MELTING POINT	
CEAST	ITALY
YAMATO	JAPAN
ZWICK	GERMANY
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 PERMISSION 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- GENERAL ITEMS	
8.11.1- ANALYTICAL BALANCE	
A&D	UK
ADAMLAB	UK
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
8.11.5- COLORIMETER (COMPERATOR)	
WILL BE ADVISED LATER	
8.11.6- CONTAMINATING METER	
WILL BE ADVISED LATER	



<i>COMPANY NAME</i>	<i>ORIGIN</i>
8.11.7- BOD / COD / TOC METER	
HACH	USA / W.EUROPE
WTW	GERMANY
8.11.8- AIR / N2 / H2 GENERATOR	
DOMNICK	UK
PEAK SCIENTIFIC	UK
SCHMIDLIN-DBS AG	GERMANY
8.11.9- DEMINERALIZED WATER (DM WATER MAKER)	
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
8.11.15- HOT PLATE / STRIPPER / MANTLE	
COLE PARMER	USA / W.EUROPE
HEIDOLPH	GERMANY
IKA	GERMANY
SCHCOTT	GERMANY
8.11.16- INDUCTION PERIOD	
KOHLER	USA / W.EUROPE
8.11.17- KARL-FISCHER TITRATOR (COULOMETRY / VOLUMETRIC)	
METROHM	SWITZERLAND
METTLER	SWITZERLAND

<i>COMPANY NAME</i>	<i>ORIGIN</i>
8.11.18- OVEN / INCUBATOR	
COLE PARMER	USA / W.EUROPE
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
8.11.26- TITRATOR	
METTLER	SWITZERLAND
METROHM	SWITZERLAND
8.11.27- TURBIDITY METER	
HACH	GERMANY
WTW	GERMANY

<u>COMPANY NAME</u>	<u>ORIGIN</u>
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
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
8-15- <u>LABORATORY FURNITURE</u>	
8.15.1- ACID PROOF TILES	
ARVIN TEC	IRAN
AZAR PARS TAJHIZ	IRAN
FARAYAD TEHRAN	IRAN
FARPAJOOH	IRAN
SHIMA	IRAN
TEHRAN NOAVAR	IRAN
8.15.2- ACID PROOF MORTARS	
WILL BE ADVISED LATER	



	<i>COMPANY NAME</i>	<i>ORIGIN</i>
8-16- <u>SAMPLING EQUIPMENT</u>		
8.16.1- NEEDLE VALVE		
	PARKER	USA / W.EUROPE
	SUPELCO / SIGMA-ALDRICH	USA / W.EUROPE
	SWAGELOK	GERMANY
8.16.2- CYLINDER		
	PARKER	USA / W.EUROPE
	SUPELCO / SIGMA-ALDRICH	USA / W.EUROPE
	SWAGE-LOCK	GERMANY
8.16.3- QUICK CONNECTION		
	PARKER	USA / W.EUROPE
	SUPELCO / SIGMA-ALDRICH	USA / W.EUROPE
	SWAGELOK	GERMANY
8.16.4- HOSE		
	PARKER	USA / W.EUROPE
	SUPELCO / SIGMA-ALDRICH	USA / W.EUROPE
	SWAGELOK	GERMANY
8.16.5- RUBBER BLADDER		
	WILL BE ADVISED LATER	
8.17- <u>CALIBRATION & STANDARD GASES</u>		
	AIR LIQUIDE	FRANCE
	AIR PRODUCTS	USA / W.EUROPE
	B.O.C.	UK
	LINDE	GERMANY
8.18- <u>CONSUMABLE GOODS</u>		
	DRÄGER	GERMANY
	JULABO	GERMANY
	KERN	GERMANY
	LABCOLD	USA / W.EUROPE
	MILLIPORE	USA / W.EUROPE
	SUPELCO / SIGMA-ALDRICH	USA / W.EUROPE

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 MACHNIE
- 9.1.1.6- DYNAMIC BALANCING MACHINE
- 9.1.1.7- DRILLING MACHNIE
- 9.1.1.8- GRINDER MACHNIE
- 9.1.1.9- CUTTING MACHNIE
- 9.1.1.10- ROLLING MACHINE
- 9.1.1.11- BORING MACHINE
- 9.1.1.12- SHAPPING MACHINE

9.1.2- VALVE SHOP

- 9.1.2.1- VLAVE 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 MACHNIE
- 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- HOLIDAY 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- PROTABLE 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*

9.2- INSTRUMENTATION EQUIPMENT

- 9.2.1- COUNTER TIMER
- 9.2.2- DEAD WEIGHT TESTER
- 9.2.3- ELECTRONIC BENCH TEST
- 9.2.4- FIELDBUS 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 / RTD SIMULATOR AND TESTER
- 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

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
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
ATAK		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

COMPANY NAME

ORIGIN

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
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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
	HAVAYAR	IRAN
9.1.5.5- CHAIN BLOCK		
	ABZAR MAHDI	IRAN
9.1.5.6- HOT TAP		
	MIRRAGE	UK
	NATIONAL PIPING SERVICE IPSCO	USA

	<i>COMPANY NAME</i>	<i>ORIGIN</i>
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

<i>COMPANY NAME</i>	<i>ORIGIN</i>
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

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

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
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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

	<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
9.2.12- <u>PNEUMATIC HAND PUMP</u>		
	AMETEK	UK
	DRUCK	USA/W.EUROPE
	INDOMART	CANADA
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
	YOKOGAWA	JAPAN
9.2.15- <u>PORTABLE DIGITAL MULTIMETER</u>		
	FLUKE	USA / W.EUROPE
	HIOKI	JAPAN
	METRIX	USA/WEST EUROPE
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

COMPANY NAME

ORIGIN

9.2.20- PORTABLE SIGNAL GENERATOR

SA IRAN	IRAN
FLUKE	USA / W.EUROPE
INDOMART	CANADA
PROMAC	W.EUROPE
TTI	UK

9.2.21- PORTABLE SURFACE THERMOMETER

FLUKE	USA / W.EUROPE
HIOKI	JAPAN

9.2.22- PORTABLE TEMPERATURE INDICATOR

DRUCK	USA/W.EUROPE
FLUKE	USA / W.EUROPE
HIOKI	JAPAN
INDOMART	CANADA
OMRON	JAPAN
PROMAC	W.EUROPE

9.2.23- PORTABLE THERMOCOUPLE / RTD SIMULATOR AND TESTER

AMETEK	UK
DRUCK	USA/W.EUROPE
FLUKE	USA / W.EUROPE
INDOMART	CANADA
ISOTECH	UK
PROMAC	W.EUROPE

9.2.24- PORTABLE UNIVERSAL METER

SA IRAN	IRAN
DRUCK	USA/W.EUROPE
FLUKE	USA/WEST EUROPE
HIOKI	JAPAN

9.2.25 LCR METER

FLUKE	USA / W.EUROPE
HIOKI	JAPAN
LEADER	JAPAN

9.2.26- PORTABLE VACUUM SET

BUDENBURG	UK
DRUCK	USA/W.EUROPE

9.2.27- PORTABLE VIBRATION METER

BENTLY NAVADA	USA / W.EUROPE
IRD	UK

9.2.28- PORTABLE VIBRATION CALIBRATOR

BENTLY NAVADA	USA / W.EUROPE
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	<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
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
	YOKOGAWA	JAPAN
9.2.39-	<u>ABSOLUTE MANOMETER</u>	
	ASHCROFT	USA/W.EUROPE
	WIKA	SWEDEN

COMPANY NAME

ORIGIN

9.3- ELECTRICAL EQUIPMENT

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)

JAHADÉ 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>		
	JAHAD DANESHGAHI ELM VA SANAT	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 ELCTRONIC	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
	JAHADE DANESHGAHI ELM VA SANAT	IRAN

CONSULTANT LIST (REV. 5)

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1.1- ENGINEERING CONTRACTORS

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
1.1.1	EP/EPC	
1.1.1.1	PROCESS PLANT	
1.1.1.1.1	GROUP I *	
	CHEGALESH CONSULTING ENGINEERS	IRAN
	ENERGY INDUSTRIES ENGINEERING & DESIGN (EIED)	IRAN
	NAMVARAN ENGINEERING & MANAGEMENT	IRAN
	NARGAN ENGINEERS & CONSTRUCTORS	IRAN
	PETROCHEMICAL INDUSTRIES DESIGN AND ENGINEERING (PIDEC)	IRAN
	SAZEH CONSULTING ENGINEERS	IRAN
1.1.1.1.2	GROUP II **	
	BINA CONSULTING ENGINEERS	IRAN
	DARYA PALA	IRAN
	ENER CHIMI ENGINEERING COMPANY	IRAN
	ENERGY & SANAT CONSULTING ENGINEERS	IRAN
	HAMPA ENERGY ENGINEERING & DESIGN CO. (HEDCO)	IRAN
	IRAN INTERNATIONAL ENGINEERING COMPANY (IRITEC)	IRAN
	IRAN ITOK	IRAN
	MAAD KIMIYA FARAYAND CONSULTING ENGINEERS (MKF Co.)	IRAN
	OIL DESIGN AND CONSTRUCTION CO.(ODCC)	IRAN
	OIL MICO	IRAN
	SAKHTAR FARDA	IRAN
	TARH & PALAYESH	IRAN
	<p>* FOR ALL PROCESS PLANTS ie. OLEFIN, AMMONIA/UREA, METHANOL, POLY ETHYLENE, POLY PROPYLENE, EB/SM/PS, EO/EG, AA/VA, MTBE, PET/PTA, AROMATICS, NITRIC ACID/AMMONIUM NITRATE /DAP/PHOSPHORIC ACID/SULFURIC ACID, PDH, PHTALIC ANHYDRIDE/2-EH/DOP, ENG. POLYMERS, BUTADIENE, BUTENE-1, CHLOR ALKALI/EDC/VCM/PVC, ISOCYANATES, POLY URETHANES, ALA CHLOR/BUTA CHLOR, ETHANE RECOVERY, etc.</p> <p>** FOR PROCESS UNITS WITHOUT ANY KNOW-HOW OR LICENSE</p>	
1.1.1.2	UTILITY & OFFSITE	
	EHDAS VA TOSE-E PROJEHAYE VIJEH MAPNA-3	IRAN
	FARAB ENERGY & WATER PROJECTS/NARDIS	IRAN
	GHODS NIROO ENGINEERING COMPANY	IRAN
	HIRBODAN EPC COMPANY	IRAN
	MONENCO IRAN	IRAN
	NORAHAN SANAYE	IRAN
	TEHRAN SAMANDISH	IRAN
	CONTRACTORS LISTED UNDER ITEM NO. 1.1.1.1	

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
1.1.1.3	POWER PLANT	
	ENERGY & SANAT CONSULTING ENGINEERS	IRAN
	FARAB ENERGY & WATER PROJECTS/NARDIS	IRAN
	GHODS NIROO ENGINEERING COMPANY	IRAN
	HIRBODAN EPC COMPANY	IRAN
	IRAN POWER PLANT PROJECTS MANAGEMENT CO. (MAPNA)	IRAN
	MONENCO IRAN	IRAN
	MOSHANIR POWER ENGINEERING CONSULTANTS	IRAN
	NIROO TAVAN	IRAN
	PARSIAN POWER & INDUSTRY DEVELOPMENT CO.	IRAN
1.1.1.4	POWER TRANSMISSION	
	GHODS NIROO ENGINEERING COMPANY	IRAN
	IRAN POWER PLANT PROJECTS MANAGEMENT CO. (MAPNA)	IRAN
	MOHAM SHARGH GROUP	IRAN
	MOSHANIR POWER ENGINEERING CONSULTANTS	IRAN
	PARSIAN POWER & INDUSTRY DEVELOPMENT CO.	IRAN
1.1.1.5	MV & HV SUBSTATION	
	IRAN POWER PLANT PROJECTS MANAGEMENT CO. (MAPNA)	IRAN
	MABNA NIROO	IRAN
	MOHAM SHARGH GROUP	IRAN
	MOSHANIR POWER ENGINEERING CONSULTANTS	IRAN
	NIROO TAVAN	IRAN
	PEIMAN KHOTOOT GOSTAR	IRAN
	SAFA NIKOO	IRAN
	PARSIAN POWER & INDUSTRY DEVELOPMENT CO.	IRAN
1.1.1.6	CATHODIC PROTECTION	
	ARMIN SANAT GOSTARAN	IRAN
	BINA CONSULTING ENGINEERS	IRAN
	EHDAS CONTROL	IRAN
	FANAVARI DANESH KHORDEGI	IRAN
	FARA SANAT BAN	IRAN
	JAHADE DANESHGAHI ELM VA SANAT	IRAN
	PAYESH SANAT NOVIN	IRAN
	TECHNICAL INSPECTION & CORROSION CONTROL CO. (TECHINCO)	IRAN
	ZANG SETIZANE SHARGH	IRAN
	CATHODIC PROTECTION CO	UK
	CORR OCEAN	NORWAY
	CORROCELL CO	UK
	CORRPRO	UK
	ROSE CORROSION SERVICES	UK
	WILSON WALTON	UK

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
1.1.1.7 F&G SYSTEM		
TO BE ADVISED LATER		
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TO BE ADVISED LATER		
1.1.1.9 TELECOMMUNICATION & SCADA		
TO BE ADVISED LATER		
1.1.2 NON-INDUSTRIAL BUILDINGS & ROADS		
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1.2- ENGINEERING SERVICES		
1.2.1 ENGINEERING		
1.2.1.1 GENERAL		
SHARGAN		IRAN
1.2.1.2 PIPING		
ARYA PISHRO GHARN		IRAN
DARYA PALA		IRAN
ENERGY & SANAT CONSULTING ENGINEERS		IRAN
HAMPA ENERGY ENGINEERING & DESIGN CO. (HEDCO)		IRAN
NORAHAN SANAYE		IRAN
1.2.1.3 ELECTRICAL PROJECTS		
1.2.1.3.1- ELECTRICAL		
ARYA PISHRO GHARN		IRAN
BINA AFZAR		IRAN
DARYA PALA		IRAN
ENERGY & SANAT CONSULTING ENGINEERS		IRAN
HAMPA ENERGY ENGINEERING & DESIGN CO. (HEDCO)		IRAN
KHADAMAT MOHANDESI VA FANA VARAN ENERGY ARYANA		IRAN
MOHAM SHARGH GROUP		IRAN
MOHANDESI MOSHAVERAN SHIRAZ ENERGY (MOSHIRAN)		IRAN
NORAHAN SANAYE		IRAN
1.2.1.3.2- LIGHTING		
DARIAN		IRAN
EHDAS GOSTAR NIROOYE PARSCONTROL		IRAN

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
1.2.1.4	INSTRUMENTATION	
	ARYA PISHRO GHARN	IRAN
	DARYA PALA	IRAN
	ENERGY & SANAT CONSULTING ENGINEERS	IRAN
	HAMPA ENERGY ENGINEERING & DESIGN CO. (HEDCO)	IRAN
	NORAHAN SANAYE	IRAN
	PARS HASSAS	IRAN
1.2.2	FEASIBILITY STUDY	
	MONENCO IRAN	IRAN
	PARAVAR	IRAN
	SADR SANAT	IRAN
	SHARGAN	IRAN
1.2.3	CONCEPTUAL DESIGN	
	PARAVAR	IRAN
	SADR SANAT	IRAN
	SHARGAN	IRAN
1.2.4	ENVIRONMENT IMPACT ASSESSMENT (EIA)	
	MOHANDESIN MOSHAVER BEHBOUD GOSTAR PAIDAR	IRAN
1.2.5	HEALTH SAFETY ENVIRONMENT QUALITY (HSEQ)	
	TO BE ADVISED LATER	
1.2.6	DEFINITIVE DESIGN REVIEW	
	TO BE ADVISED LATER	
1.2.7	TOPOGRAPHY / HYDROGRAPHY / SURVEY SERVICE	
	REFER TO "DEPUTY OF TECHNICAL AFFAIRS" LIST.(http://tec.mporg.ir)	
1.2.8	GEOTECHNICAL INVESTIGATION	
	REFER TO "DEPUTY OF TECHNICAL AFFAIRS" LIST.(http://tec.mporg.ir)	
1.2.9	RECLAIMING & COMPACTION STUDY	
	REFER TO "DEPUTY OF TECHNICAL AFFAIRS" LIST.(http://tec.mporg.ir)	

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
1.2.10	HYDRONAMIC SHORE-PROTECTION	
	TO BE ADVISED LATER	
1.2.11	INFORMATION COMMUNICATION TECHNOLOGY	
	TO BE ADVISED LATER	
1.2.12	VALUE ENGINEERING	
	BAHREVARZ SYSTEM	IRAN
	MARKAZ MOTALEAT VA PAJOUHESH LOJESTIKI DANESHGAH IMAM HOSSEIN	IRAN
	NAZMAVAR CONSULTING ENGINEERS	IRAN
1.2.13	HAZOP STUDY / SIL ANALYSIS	
	MOHANDESIN MOSHAVER SAMA	IRAN
	NAB GOSTAR SHARGH	IRAN
	ESC	UK
1.2.14	MAPPING	
	REFER TO "PRESIDENT DEPUTY STRATEGIC PLANNING and CONTROL" LIST.(http://www.spac.ir/)-[GENERAL MANAGEMENT]	
1.2.15	PROJECT PLANNING & CONTROL	
	TO BE ADVISED LATER	
1.2.16	SITE SELECTION SURVEY	
	SADR SANAT	IRAN
1.2.17	RETROFITTING	
	TADBIR SAHEL PARS	IRAN
1.3-	MANAGING CONTRACTOR (MC)	
	ANDISHEVARAN ENGINEERING AND CONSULTANT COMPANY (AVEC)	IRAN
	ARYA PISHRO GHARN	IRAN
	BAMDAD BADAQSHAN ENGINEERING AND MANAGEMENT	IRAN
	BONAVAR	IRAN
	CONSTRUCTION & PROJECT CONTROL MANAGEMENT CO. (CCM)	IRAN
	ENERCHIMI ENGINEERING COMPANY	IRAN
	FALEGH SANAT	IRAN
	FURSAN CONTROL	IRAN
	HAMPAYE TOOLID ENGINEERING AND DEVELOPMENT	IRAN
	HAMPA ENERGY ENGINEERING & DESIGN CO. (HEDCO)	IRAN
	HIRBODAN EPC COMPANY	IRAN

<i>COMPANY NAME</i>	<i>ORIGIN</i>
ITCEN ENGINEERING CONSULTANT	IRAN
IRAN ITOK	IRAN
KAYSON	IRAN
MAAD KIMIYA FARAYAND CONSULTING ENGINEERS (MKF Co.)	IRAN
MAPSA	IRAN
MAROON TECHNOLOGY DEVELOPMENT	IRAN
NAMAVARAN DELVAR ENGINEERING & CONSTRUCTION	IRAN
NAMVARAN SANAT	IRAN
NARGAN MANAGEMENT CO.	IRAN
OIL DESIGN AND CONSTRUCTION CO.(ODCC)	IRAN
PARAVAR	IRAN
PARSIAN ASIA	IRAN
PARSIKAN IRAN CONSULTING ENGINEERS	IRAN
PETRO SAZEH KOUSHA INDUSTRIAL GROUP (PSK)	IRAN
PETRO TECHSUN	IRAN
SANAT SAZAN	IRAN
SAT	IRAN
TARH-E-NOANDISHAN (TNA)	IRAN
TARH VA FARAYAND NOANDISHAN	IRAN
TECHNICAL INSPECTION & CORROSION CONTROL CO. (TECHINCO)	IRAN
TEHRAN BOSTON	IRAN
ZAVIR	IRAN

1.4- TECHNICAL INSPECTION

1.4.1 IMPORTED GOODS

REFER TO INSTITUTE OF STANDARD & INDUSTRIAL RESEARCH OF IRAN (ISIRI)'S LIST (www.isiri.org) AND CENTRAL BANK OF I.R. OF IRAN(www.cbi.ir)

1.4.2 EXPORTED GOODS

REFER TO INSTITUTE OF STANDARD & INDUSTRIAL RESEARCH OF IRAN (ISIRI)'S LIST (www.isiri.org) AND CENTRAL BANK OF I.R. OF IRAN(www.cbi.ir)

1.4.3 NON-DESTRUCTIVE TESTING (NDT)

2RINSPECTION & QUALITY SERVICES KISH	IRAN
ARUN JOSH SANAT	IRAN
BAZRASI FANI IRANIAN (IRICO)	IRAN
BEHINEH KAVOSH SANAT	IRAN
CONSTRUCTION & PROJECT CONTROL MANAGEMENT CO. (CCM)	IRAN
ENTEBAGH AVARAN	IRAN
FALAT PEJVAK	IRAN
FANI VA MOHANDESI JOSH FRAYAND CONTROL	IRAN
KAVOSH GARAN BASER	IRAN
PARSIAN SHARGH	IRAN
PAYESH GOSTARAN PISHRO	IRAN
TECHNICAL INSPECTION & CORROSION CONTROL CO. (TECHINCO)	IRAN
TUV NORD-IRAN	IRAN
TWI-PERSIA	IRAN
ARYA SGS QUALITY SERVICES CO.	IRAN-SWITZERLAND

	<i>COMPANY NAME</i>	<i>ORIGIN</i>
1.4.4	CONSTRUCTION	
	2RINSPECTION & QUALITY SERVICES KISH	IRAN
	BAZRASI FANI IRANIAN (IRICO)	IRAN
	BINA CONSULTING ENGINEERS	IRAN
	CONSTRUCTION & PROJECT CONTROL MANAGEMENT CO. (CCM)	IRAN
	FALAT PEJVAK	IRAN
	INTERNATIONAL INSPECTION, INTER TECH. GHESHM	IRAN
	NAZERAN DAGHIGH ARMAN	IRAN
	TECHNICAL INSPECTION & CORROSION CONTROL CO. (TECHINCO)	IRAN
	TUV NORD-IRAN	IRAN
	ARYA SGS QUALITY SERVICES CO.	IRAN-SWITZERLAND
1.4.5	OPERATION	
	BAZRASI FANI IRANIAN (IRICO)	IRAN
	BINA CONSULTING ENGINEERS	IRAN
	FALAT PEJVAK	IRAN
	NAZERAN DAGHIGH ARMAN	IRAN
	TECHNICAL INSPECTION & CORROSION CONTROL CO. (TECHINCO)	IRAN
	TUV NORD-IRAN	IRAN
	ARYA SGS QUALITY SERVICES CO.	IRAN-SWITZERLAND
1.4.6	RISK BASED INSPECTION (RBI)	
	FALAT PEJVAK	IRAN
	IS DE TEHRAN	IRAN
	NAZERAN DAGHIGH ARMAN	IRAN
	PAYESH GOSTARAN PISHRO	IRAN
	TUV NORD-IRAN	IRAN
	TWI-PERSIA	IRAN
	ARYA SGS QUALITY SERVICES CO.	IRAN-SWITZERLAND
1.4.7	MATERIAL & EQUIPMENT	
	2RINSPECTION & QUALITY SERVICES KISH	IRAN
	BAZRASI FANI IRANIAN (IRICO)	IRAN
	BEHSOTONE SANAT NOVIN CO.	IRAN
	BINA CONSULTING ENGINEERS	IRAN
	ENTEBAGH AVARAN	IRAN
	FALAT PEJVAK	IRAN
	INTERNATIONAL GOODS INSPECTION CO (IGI)	IRAN
	INTERNATIONAL INSPECTION, INTER TECH. GHESHM	IRAN
	IRAN ENGINEERING INSPECTION CO. (IEI)	IRAN
	MARIN ASA INSPECTION CO	IRAN
	NAZERAN DAGHIGH ARMAN	IRAN
	PAYESH GOSTARAN PISHRO	IRAN
	SHARDIN AFARIN INTERNATIONAL INSPECTION CO.(SAI)	IRAN
	TECHNICAL INSPECTION & CORROSION CONTROL CO. (TECHINCO)	IRAN
	TUV NORD-IRAN	IRAN
	ARYA SGS QUALITY SERVICES CO.	IRAN-SWITZERLAND
	BUREA VERITAS INTERNATIONAL REGISTER OF CLASSIFICATION OF VESSEL & AIRCRAFT	FRANCE

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
1.4.8	CHEMICALS	
	FALAT PEJVAK	IRAN
	INTERNATIONAL GOODS INSPECTION CO (IGI)	IRAN
	PAYESH GOSTARAN PISHRO	IRAN
	SHARDIN AFARIN INTERNATIONAL INSPECTION CO.(SAI)	IRAN
	TECHNICAL INSPECTION & CORROSION CONTROL CO. (TECHINCO)	IRAN
	TUV NORD-IRAN	IRAN
	ARYA SGS QUALITY SERVICES CO.	IRAN-SWITZERLAND
	BUREA VERITAS INTERNATIONAL REGISTER OF CLASSIFICATION OF VESSEL & AIRCRAFT	FRANCE
1.4.9	METALLURGY & CORROSION	
	2RINSPECTION & QUALITY SERVICES KISH	IRAN
	BAZRASI FANI IRANIAN (IRICO)	IRAN
	BINA CONSULTING ENGINEERS	IRAN
	CONSTRUCTION & PROJECT CONTROL MANAGEMENT CO. (CCM)	IRAN
	FALAT PEJVAK	IRAN
	NAZERAN DAGHIGH ARMAN	IRAN
	PAYESH GOSTARAN PISHRO	IRAN
	PAYESH SANAT NOVIN	IRAN
	TECHNICAL INSPECTION & CORROSION CONTROL CO. (TECHINCO)	IRAN
	TUV NORD-IRAN	IRAN
	ARYA SGS QUALITY SERVICES CO.	IRAN-SWITZERLAND
1.4.10	CATHODIC PROTECTION	
	ARMIN SANAT GOSTARAN	IRAN
	FALAT PEJVAK	IRAN
	FARA SANAT BAN	IRAN
	NAZERAN DAGHIGH ARMAN	IRAN
	PAYESH GOSTARAN PISHRO	IRAN
	PAYESH SANAT NOVIN	IRAN
	REFERANCE IRAN	IRAN
	SAZEH PARDAZAN DARYA	IRAN
	SHARDIN AFARIN INTERNATIONAL INSPECTION CO.(SAI)	IRAN
	TECHNICAL INSPECTION & CORROSION CONTROL CO. (TECHINCO)	IRAN
	TUV NORD-IRAN	IRAN
	ARYA SGS QUALITY SERVICES CO.	IRAN-SWITZERLAND
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EX. CONTRACTOR LIST

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2.7- RETROFITTING

2.1- CONSTRUCTION

<i>COMPANY NAME</i>	<i>ORIGIN</i>
2.1.1 - CIVIL & MECHANICAL ERECTION	
ALBORZ NOVIN SHIRAZ	IRAN
ASFALT TOUS	IRAN
BARZIN	IRAN
ERECTION & CONSTRUCTION COMPANY (ECC)	IRAN
HAMPA ENGINEERING CORPORATION	IRAN
IRAN ARVIN	IRAN
ISTAFAR	IRAN
ITCEN ENGINEERING CONSULTANT	IRAN
JAHAN PARS	IRAN
JALKEH	IRAN
KANROOD SAZEH	IRAN
KAYSON	IRAN
MAPSA	IRAN
MEAM TEAM	IRAN
MEHVAR SAZAN ENG. & CONST. CO	IRAN
MODIRIAT EHDAS	IRAN
NASB AZARAB	IRAN
OXIN SANAT	IRAN
PARCIKAN IRAN	IRAN
PARS KEIHAN	IRAN
PERLITE	IRAN
SAZEH KHAVAR	IRAN
STEAM	IRAN
TAMIR VA NEGAHDASHT KARKHANEJAT SANAYEH PETROSHIMI (RAMPCO)	IRAN
TANAVOB	IRAN
TEHRAN BERKLY	IRAN
TEHRAN JONOUB	IRAN
TOSE-E- MOHANDESI JONOUB	IRAN
TOSE-E- SHABAKEHAYE SANATI IRAN	IRAN
2.1.2 - CIVIL & UG	
ALBORZ NOVIN SHIRAZ	IRAN
BOLAND PAYEH	IRAN
BONAB SAD	IRAN
FARA BETON	IRAN
FATER KOSARAN JONOUB	IRAN
JALKEH	IRAN
KAYSON	IRAN
MAHSAR ABNIEH	IRAN
MILAD POOYA BETON	IRAN
OMRAN SOULEH	IRAN
RAHBORD SAZEH	IRAN
SAKOO KAR	IRAN
TEHRAN TAHKIM	IRAN

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
2.1.3 - MECHANICAL ERECTION		
	ISTAFAR	IRAN
2.1.4 - SUB-CONTRACTORS		
2.1.4.1 ROTARY MACHINE		
	TO BE ADVISED LATER	
2.1.4.2 - STATIONARY EQUIPMENT		
2.1.4.2.1 STORAGE TANKS		
	AZARAB	IRAN
	HAMPA ENERGY ENGINEERING & DESIGN CO. (HEDCO)	IRAN
	MASHIN SAZI ARAK	IRAN
	PAISAZ	IRAN
	SADID JAHAN SANAT	IRAN
	SANAYE VA BANADER AZAD FARASAHHEL (SABA)	IRAN
	TASHA	IRAN
	ZAGROS NASB SEPAHAN	IRAN
2.1.4.3 - PIPING		
	ALBORZ NOVIN SHIRAZ	IRAN
	DASTAVARD	IRAN
	ISTAFAR	IRAN
	SAMIN	IRAN
2.1.4.4- INSTRUMENT		
	AZAR DAGHIGH IRANIAN (ADI Co.)	IRAN
2.1.4.5- ELECTRICAL		
2.1.4.5.1- LIGHITING		
	DARIAN	IRAN
	EHDAS GOSTAR NIROOYE PARS	IRAN
2.1.4.6- CATHODIC PROTECTION		
	EHDAS CONTROL	IRAN
2.1.4.7- F&G SYSTEM		
	TO BE ADVISED LATER	
2.1.4.8- FIRE FIGHTING		
	ATRIN RADMEHR	IRAN
2.1.4.9- TELECOMMUNICATION & SCADA		
	RAHBORD HAYE HOUSHMAND	IRAN

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
2.1.4.10- SAND BLAST & PAINTING		
TO BE ADVISED LATER		
2.1.4.11- COATING & INSULATION		
SAROUGE BON PEY		IRAN
2.1.4.12- FLARE SYSTEM		
TO BE ADVISED LATER		
2.1.4.13- LINING		
SAROUGE BON PEY		IRAN
SHERKAT TOLIDI LASTIKHAYE SANATI MOBARAKEH (MIRCO)		IRAN
2.1.4.14- CLADDING		
PARGASIRAN		IRAN
WELDING ALLOYS		IRAN

2.2- INFRASTRUCTURE PROJECTS & CIVIL

2.2.1- SITE PREPARATION

REFER TO "DEPUTY OF TECHNICAL AFFAIRS" LIST.(<http://tec.mporg.ir/>)

2.2.2- LAND RECLAIMING & COMPACTION

REFER TO "DEPUTY OF TECHNICAL AFFAIRS" LIST.(<http://tec.mporg.ir/>)

2.2.3- NON-INDUSTRIAL BUILDING

REFER TO "DEPUTY OF TECHNICAL AFFAIRS" LIST.(<http://tec.mporg.ir/>)

2.2.4- ROADS

REFER TO "DEPUTY OF TECHNICAL AFFAIRS" LIST.(<http://tec.mporg.ir/>)

2.3- OPERATION SERVICES

2.3.1- PRE-COMMISSIONING

TO BE ADVISED LATER

2.3.2- COMMISSIONING

TO BE ADVISED LATER

COMPANY NAME

ORIGIN

2.3.3- MAINTENANCE

2.3.3.1 - CRITICAL ROTARY MACHINE

FANAVARI MASHINHAYE DAVAR BORNA (ROTECH)	IRAN
FANI MOHANDESI PETROSHIMI FARS (FPC)	IRAN
JAM SANATKARAN	IRAN
KARNO IDEAL ARMAN	IRAN
KHARAZMI-BANDAR IMAM CO.	IRAN
MABNA TOUSS COMPANY	IRAN
MODIRIAT NASB VA TAMIRAT NIROUYE PASARGAD (NTN)	IRAN
MOHANDESI PETRO TOURBIN GOSTAR PARS	IRAN
NASB VA TAMIR NIROUGAHAYE KHOOZESTAN	IRAN
OMID SANAT JAVID	IRAN
PARSIAN ASIA / TMS	IRAN/GERMANY
PETRO SANAT JONOUB	IRAN
PISHGAM FARA SANAT (PFS)	IRAN
TAMIR VA NEGAHDASHT KARKHANEJAT SANAYEH PETROSHIMI (RAMPCO)	IRAN
TAMIRAT NIROUGAHI IRAN	IRAN
TARAH VA MOHANDESI DERAK PARSIAN	IRAN
TARAH VA SAKHT GHATAAT MASHIN ALAT SANAYE PETROSHIMI (TOUS)	IRAN
WOOD GROUP IRAN GHESHM	IRAN

2.3.3.2 - GENERAL

ACTION	IRAN
AEEN TALASH TABRIZ	IRAN
DAMAVAND SANAT PARSA	IRAN
EHDAS VA KHODKAFEE SANAY (SHAKHES)	IRAN
FANI MOHANDESI PETROSHIMI FARS (FPC)	IRAN
GOSTARESH SANAT NOAVARAN	IRAN
JAM SANATKARAN	IRAN
KHARAZMI-BANDAR IMAM CO.	IRAN
KHOZESTAN POWER PLANTS INSTALLATION & MAINTENANCE CO. (KPIM)	IRAN
MABNA TOUSS COMPANY	IRAN
MOHANDESI ABTIN PAJOUHAN	IRAN
MOHANDESI VA NASB FIRMCO PARS (FIRM CO)	IRAN
NEGAHDASHT KARAN	IRAN
OWJ-E- NASR	IRAN
PARS HASSAS	IRAN
PARSIAN ASIA	IRAN
PETRO PAY	IRAN
PETRO SANAT ESFAHAN	IRAN
PETRO SANAT JONOUB	IRAN
PETRO SINA	IRAN
PISHGAM FARA SANAT (PFS)	IRAN
SANA INFO TECH & INDUSTRIAL SERVICES CO.	IRAN
TALASH KARAN MAHER	IRAN
TAMIR VA NEGAHDASHT KARKHANEJAT SANAYEH PETROSHIMI (RAMPCO)	IRAN
TAMIRAT RAD NIROUYE TABAN GOSTAR	IRAN

<i>COMPANY NAME</i>	<i>ORIGIN</i>
2.3.3.3 - ELECTRICAL & INSTRUMENTATION	
AEEN TALASH TABRIZ	IRAN
EHDAS VA KHODKAFABEE SANAY (SHAKHES)	IRAN
ELM NIROU SHARGH	IRAN
FANAVARAN BARGH SANATI PISHGAM	IRAN
FANI MOHANDESI PETROSHIMI FARS (FPC)	IRAN
KHARAZMI-BANDAR IMAM CO.	IRAN
KHOZESTAN POWER PLANTS INSTALLATION & MAINTENANCE CO. (KPIM)	IRAN
MABNA TOUSS COMPANY	IRAN
MODIRIAT NASB VA TAMIRAT NIROUYE PASARGAD (NTN)	IRAN
MOHAM SHARGH GROUP	IRAN
MOHANDESI FARINEH SANAT	IRAN
MOHANDESI MOSHAVERAN SHIRAZ ENERGY (MOSHIRAN)	IRAN
MOHANDESI VA NASB FIRMCO PARS (FIRM CO)	IRAN
PARS HASSAS	IRAN
PARSIAN ASIA	IRAN
PETRO PAY	IRAN
PETRO SANAT ESFAHAN	IRAN
PETRO SANAT JONOUB	IRAN
PISHGAM FARA SANAT (PFS)	IRAN
SANA INFO TECH & INDUSTRIAL SERVICES CO.	IRAN
TAMIR VA NEGAHDASHT KARKHANEJAT SANAYEH PETROSHIMI (RAMPCO)	IRAN
TAMIRAT RAD NIROUYE TABAN GOSTAR	IRAN

2.3.3.4 - NET MECHANIZED SYSTEMS

2.3.3.4.1 - PREVENTIVE MAINTENANCE (PM)

ACTION	IRAN
AEEN TALASH TABRIZ	IRAN
ANDISHEH PARDAZAN SARAMAD	IRAN
DADEH PARDAZAN EHDAS	IRAN
DERAYAT GOSTAR	IRAN
FANI MOHANDESI PETROSHIMI FARS (FPC)	IRAN
KHARAZMI-BANDAR IMAM CO.	IRAN
MABNA TOUSS COMPANY	IRAN
MINA MAX	IRAN
MOHANDESI AFRAND RASAYE TEHRAN	IRAN
MOHANDESI TAMIRAT VA NEGAHDARI NIVAR SANAT	IRAN
MOHANDESIN MOSHAVER BEHBOUD SYSTEM	IRAN

<u>COMPANY NAME</u>	<u>ORIGIN</u>
NAZM AFARIN TADBIRGAR SANAT	IRAN
PARSIAN ASIA / TMS	IRAN/GERMANY
PETRO PAYESH SANAT JONOUB	IRAN
PETRO SANAT ESFAHAN	IRAN
PETRO SANAT JONOUB	IRAN
PISHGAM FARA SANAT (PFS)	IRAN
SANA INFO TECH & INDUSTRIAL SERVICES CO.	IRAN
TAMIR VA NEGAHDASHT KARKHANEJAT SANAYEH PETROSHIMI (RAMPCO)	IRAN
TARAH VA MOHANDESI DERAK PARSIAN	IRAN

2.3.3.4.2 - **CONDITION MONITORING (CM)**

CAMPIOTERI BARG *	IRAN
FANI MOHANDESI PETROSHIMI FARS (FPC)	IRAN
FANI VA MOHANDESI ALBORZ TADBIR KARAN **	IRAN
KHARAZMI-BANDAR IMAM CO.	IRAN
MINA MAX	IRAN
MOHANDESI AFRAND RASAYE TEHRAN	IRAN
MOHANDESI TAMIRAT VA NEGAHDARI NIVAR SANAT	IRAN
MOHANDESI TAVATOR SEPAHAN	IRAN
PARSIAN ASIA / TMS	IRAN/GERMANY
PAYESH SANAT PARSIAN	IRAN
PEGAH AFTAB	IRAN
PETRO PAYESH SANAT JONOUB	IRAN
PETRO SANAT ESFAHAN	IRAN
PETRO SANAT JONOUB	IRAN
PISHGAM FARA SANAT (PFS)	IRAN
TARAH VA MOHANDESI DERAK PARSIAN	IRAN

* Just for Supply, Erection & Start-up of Vibration Monitoring

** Just for Oil Analysis

COMPANY NAME

ORIGIN

2.3.3.4.3- COMPUTERIZED MAINTENANCE MANAGEMENT SYSTEM (CMMS)

ANDISHEH PARDAZAN SARAMAD	IRAN
DADEH PARDAZAN EHDAS	IRAN
DERAYAT GOSTAR	IRAN
KHARAZMI-BANDAR IMAM CO.	IRAN
MINA MAX	IRAN
MOHANDESIN MOSHAVER BEHBOUD SYSTEM	IRAN
NAZM AFARIN TADBIRGAR SANAT	IRAN
PETRO PAYESH SANAT JONOUB	IRAN
PETRO SANAT ESFAHAN	IRAN
SANA INFO TECH & INDUSTRIAL SERVICES CO.	IRAN
DAEWOO (CONSORTIUM OF DAEWOO & EMAN TEC.)	SOUTH KOREA
IFS	UAE
MINCOM	THAILAND

2.3.3.4.4- RELIABILITY CENTERED MAINTENANCE (RCM)

MINA MAX	IRAN
MOHANDESI TAMIRAT VA NEGAHDARI NIVAR SANAT	IRAN
PETRO PAYESH SANAT JONOUB	IRAN
PETRO SANAT JONOUB	IRAN

2.4- PIPELINE CONTRACTORS

ARGHAVAN PAY	IRAN
ASFALT TOUS	IRAN
BORNAK	IRAN
GHRARGAH SAZANDEGI KHATAM AL ANBIA	IRAN
IRAN ARVIN	IRAN
IRAN ERTEBAT	IRAN
JAHAN PARS	IRAN
JONDI SHAPOUR	IRAN
KHAT LOULEH IRAN	IRAN
KHAT-E ENTEGHAL	IRAN
LOZAN	IRAN
MAROON MECHANIC	IRAN
PAY VAREH	IRAN
PAYAB PEIMANKAR	IRAN
PERLITE	IRAN
SAHAND AZAR	IRAN
SAHAND SAZEH ALBORZ	IRAN
SAT	IRAN
SETIN SANAT ESPADAN	IRAN
TAMIR VA NEGAHDASHT KARKHANEJAT SANAYEH PETROSHIMI (RAMPCO)	IRAN
TARH VA BAZRASI	IRAN
THERMOVANE	IRAN
TOSE AB VA GAS IRAN	IRAN
ZIR ASAS	IRAN

	<u>COMPANY NAME</u>	<u>ORIGIN</u>
2.5- MARINE STRUCTURE		
2.5.1- JETTY PLATFORM		
	SANAYE DARYA FAN (SADAF)	IRAN
	SANAYE VA BANADER AZAD FARASAHHEL (SABA)	IRAN
2.5.2- OFFSHORE STRUCTURES		
	IRAN MARINE INDUSTRIAL CO. (SADRA)	IRAN
	NAFT SAZEH QESHM CO.	IRAN
	SANAYE DARYA FAN (SADAF)	IRAN
	SANAYE VA BANADER AZAD FARASAHHEL (SABA)	IRAN
2.5.3- SEA WATER INTAKE / OUTFALL		
	TO BE ADVISED LATER	
2.6- TRANSPORTATION (HEAVY HAULING)		
	FAKHAR	IRAN
	IRAN DENA	IRAN
	PAZAND TARABAR	IRAN
	SANGIN TARABAR	IRAN
	SATI	IRAN
	SHENAVAR DARYA	IRAN
	TEHRANIHA	IRAN
	VAZIN BAR	IRAN
2.7- RETROFITTING		
	TO BE ADVISED LATER	