Aramco Asia India Private Limited, 2A-801, 8th Floor, Two Horizon Center, DLF Phase-5, Sector 43, Gurugram-122002, Haryana, India.  Website: https://india.aramco.com   Email: aaisourciing@aramcoasia.com				
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Commodity	Material	Description	Long Description	
Static Equipment	6000001821	AIR HANDLING UNIT; AHU; CHILLED WATER OR	AIR HANDLING UNIT; AHU TYPE, CHILLED WATER OR DIRECT EXPANSION, ONSHORE ALL SIZES AND OFFSHORE LESS THAN 10 TONS COOLING, MANUFACTURER STANDARD	
Static Equipment	6000001822	AIR CONDITIONING UNIT; SELF CONTAINED; O	AIR CONDITIONING UNIT; SELF CONTAINED TYPE, (PACKAGED UNIT) CERTIFIED TO AHRI 340 AND UL 1995 STD	
Static Equipment	6000001823	AIR CONDITIONING UNIT; PACKAGED UNIT TRA	AIR CONDITIONING UNIT; PACKAGED UNIT TRAILERIZED TYPE, AIR COOLED ,R-22 OR R-134A, MANUFACTURER STANDARD	
Static Equipment Static Equipment	6000001826 6000001838	A/C Unit,mini-split,DE below 5.5 Tons  CONTROLLER; PROGRAMMABLE LOGIC; ENERGY M	AIR CONDITIONING UNIT; AIR CONDITIONING UNIT SPLIT TYPE, LESS THAN 5.5 TON COOLING TONNAGE, DIRECT EXPANSION TYPE, AHRI 210/240, UL-1995  CONTROLLER PROGRAMMABLE LOGIC; ANY INPUT PT, ANY OUTPUT P, SAES-K-011, UL-916 ASHRAE 135, ENERGY MANAGEMENT SYSTEM: BUILDING	
Static Equipment	6000001862	A/C UNIT;SPLIT;DIRECT EXP,5.5 TO 63 TONS	AIR CONDITIONING UNIT; AIR CONDITIONING UNIT SPLIT UNIT DIRECT EXPANSION TYPE, SIZES 5.5 TO 63 COOLING TONNAGE COOLING, AHRI 340/360, UL1995, EER VALUE	
			SHALL BE IN ACCORDANCE WITH THE EER TABLE IN SAES-K-001.	
Static Equipment Static Equipment	6000002404 6000000066	TOWER; COOLING; WATER; TUBING; COPPER-ALLOY; EEMUA; ASTM	TOWER COOLING; WATER TYPE,27-SAMSS-003,ASHRAE 90.1  TUBING; ANY TYPE,COPPER-ALLOY, INCLUDING COPPER NICKEL (90-10, 70-30, C70600, OR C71500),EEMUA144,ASTMB466 ASTMB111	
Static Equipment	6000000181	FLANGE; PIPE; COPPER NICKEL, EEMUA 145	FLANGE PIPE; ALL DESIGNS TYPE, ANY, NPS, ANY, EEMUA 234, COPPER-ALLOY FLANGES AND CS BACKING (LAP JOINT) FLANGES PER EEMUA 234. OR OTHER COPPER ALLOYS AS	
Static Equipment	600000188	FLANGE; COMPACT WN PAIR, M-F CONNECTOR	PER ASME 16.5, PIPE FLANGES AND FLANGED FITTINGS, UTILITY, NON-HYDROCARBON.  FLANGE PIPE; COMPACT FLANGE WN PAIR, WN-BLIND, WN-WN SWIVEL-RING OR AS DESIGNED TYPE, ASME CLASS 900 AND ABOVE SUPPLY, WN WITH SELF-ENERGIZING SEAL TERMINAL, ANY NPS, ANY STEEL PER 02-SAMSS-011, ASME SEC VIII DESIGN, 02-SAMSS-011, COMPLETE ASSEMBLY WITH MALE-FEMALE CONNECTOR, SEAL RING, BOLTS AND	
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Static Equipment	6000000275	VALVE; CHECK;SWING;UP TO 12 IN; CI OR DI	VALVE CHECK; SIZE UP TO 12 INCH,CAST OR DUCTILE IRON BODY,SWING,FLANGED, LUG OR WAFER END CONN,04-SAMSS-035,04-SAMSS-048 04-SAMSS-005	
Static Equipment	6000000296	VALVE; GATE; WEDGE OR DBL DISC; UP TO 12	VALVE GATE; SIZE UP TO NPS 12,ANY RATING, ALLENDS SUPPLY,CAST OR DUCTILE IRON BODY,04-SAMSS-035,04-SAMSS-048 AWWA,WITH OR WITHOUT ACTUATOR	
Static Equipment	6000000297	VALVE GATE; SIZE NPS 14 AND ABOVE	VALVE GATE; SIZE NPS 14 AND ABOVE,ANY RATING, ALLENDS SUPPLY,CAST OR DUCTILE IRON BODY,04-SAMSS-035,AWWA,WITH OR WITHOUT ACTUATOR	
Static Equipment	6000000302	VALVE; GLOBE; CAST OR DUCTILE IRON;	VALVE GLOBE; ANY NPS,ANY RATING SUPPLY,ANY ENDS END CONN,CAST OR DUCTILE IRON BODY,04-SAMSS-035,04-SAMSS-048 04-SAMSS-002,WITH OR WITHOUT ACTUATOR, ANY SIZE	
Static Equipment	6000000317	VALVE; PLUG; 4-WAY DIVERTER; 2 THRU 24	VALVE PLUG; 4-WAY DIVERTER TYPE,SIZE NPS 2 THRU 24,ASME CLASS 150 THRU 600 SUPPLY,FLANGED OR BUTTWELD END CONN,STEEL BODY,04-SAMSS-042,04-SAMSS-035 04-SAMSS-048,WITH OR WITHOUT ACTUATOR	
Static Equipment	6000000343	VALVE; TUBING; UP TO 1 IN; 10000 PSI AND	VALVE; TUBING TYPE, SIZE 9/16 INCH, 10000 PSI AND UP SUPPLY, AUTOCLAVE F562C OR EQUAL END CONN, STEEL BODY, AA API 6A, ALL VALVE TYPES, KHUFF GAS SERVICE, PSL 3G	
Static Equipment	6000000490	LUMBER; PLYWOOD; EXTERIOR OR INTERIOR;	LUMBER; INTERIOR WOOD, EXTERIOR TYPE,ANY NPS,IBC 2006,ONSHORE UTILITIES ONLY	
Static Equipment	6000002323	CRANE; JIB; HOISTING; 1/2 TON TO 10 TON;	CRANE JIB; HOISTING TYPE,1/2 TON TO 10 TON LIFT,SHOPS OPERATIO,HOISTING	
Static Equipment	6000002393	BOILER; FIRE TUBE; AND COMONENTS	BOILER; FIRE TUBE AND COMPONENTS TYPE,32-SAMSS-021	
Static Equipment	6000002689	CALIBRATION GAS CYLINDER FOR GAS MONITOR	CYLINDER; CALIBRATION GAS TYPE,SIZE ANY,ANY,FOR COMBUSTIBLE & TOXIC GAS MONITORS ONLY	
Static Equipment	6000002397	BRICK; REFRACTORY	BRICK REFRACTORY; BRICK REFRACTORY	
Static Equipment	6000002415	EJECTOR; AIR; STEAM OR WATER.;	EJECTOR; ANY PROCESS, ANY, AIR, STEAM OR WATER., AIR, STEAM OR WATER.	
Static Equipment	6000002481	TANK; FIBER GLASS; 32-SAMSS-002	TANK; ANY TYPE,ANY,FIBER GLASS,32-SAMSS-002	
Static Equipment	6000002748	IGNITER	IGNITER; FLARE TYPE,FLARE	
Static Equipment	6000009264	JOINT, METAL TO METAL SEAL	COUPLING PIPE; METAL TO METAL (POSITIVE OR NEGATIVE) SEAL MECHANICAL TERMINAL, IN NPS, OY STEEL, MM (IN), PSI SUPPLY, M, GED MLESS UGHT, E URAL FINISH, ASME, ASME, (IN) (IN), ITIVE OR NEGATIVE ITIVE OR NEGATIVE JOINT; METAL TO METAL SEAL MECHANICAL TYPE, CS/ SS/ALLOY STEEL, (IN) (IN), ITIVE OR NEGATIVE ITIVE OR NEGATIVE	
Static Equipment	6000009414	VALVE, SANDWICH, 2 IN. AND UP, ASME CLAS	VALVE; GATE, SANDWICH TYPE,SIZE NPS 2 AND UP, STEEL,ASME CLASS 150 AND UP SUPPLY,FLANGE END CONN,04-SAMSS-035,04-SAMSS-048	
Static Equipment	6000014202	FITTING; PIPE; CUNI;ALL TYPES;EEMUA 146	FITTING: PIPE; EEMUA 234, CUNI PIPE FITTINGS, ALL TYPES, INCLUDING ELBOWS, TEES, REDUCERS, CAPS, COUPLING, BRANCH CONNECTION, BW OR SW OR THREADED AS PER EEMUA 234. NON-HYDRCARBON UTILITY.	
Static Equipment	6000017141	INLINE MIXING SKID;	UNIT; VALVE/SPOOL TYPE,SAES-A-010,01-SAMSS-010 ANSI B31.3, INLINE HIGH EFFICIENCY MIXER PACKAGE, ADJUSTABLE OR STATIC, TYPICALLY HAS SPOOL OR VAVLE, FITTINGS, INJECTION CONE, INJECTION PIPE SPOOL, INJECTION QUILL, HOUSING, INTERNAL MIXING PARTS. FOR SOUR AND NON SOUR SERVICE NPS PRODUCT RANGE PER PR, ANSI FLANGE 150 TO 900#. FOR MIXING OIL WITH WATER OR CHEMICALS. FABRICATION WITH APPROVED MANUFACTURER	
Static Equipment	6000017370	SEAL, PRIMARY,FOR EXTERNAL FLOATING ROOF	SEAL; PRIMARY TYPE,32-SAMSS-005,FOR EXTERNAL FLOATING ROOFS	
Static Equipment	6000017570	BURNER, BOILER, STEAM GENERATOR	BURNER; BOILER, STEAM GENERATOR TYPE,SIZE ANY,ANY SHAPE,ANY METAL,32-SAMSS-021	
Static Equipment	6000017371	SEAL, SECONDARY, EXTERNAL FLOATING ROOFS	SEAL; SECONDARY TYPE,32-SAMSS-005,FOR EXTERNAL FLOATING ROOFS	
Static Equipment	6000017260	SKID, NITROGEN; PRESSURE SWING ADSORPTIO	SKID; NITROGEN ADSORPTION (PSA) SSURE SWING TYPE,32-SAMSS-038,NITROGEN GENERATION UNIT, PSA (PRESSURE SWING ADSORPTION) TYPE. USES ADSORBENT SUCH AS CARBON MOLECULAR SIEVE. MORE THAN 95% VOLUME PURITY NITROGEN	
Static Equipment	6000011206	SKID; FILTRATION SYSTEM	SKID; 32-SAMSS-038 (IF SKID), DESIGN, ASSEMBLY AND DESIGN OF FILTRATION SYSTEM (HYDROCARBON SERVICE) OIL /GAS/WATER STREAM	
Static Equipment	6000000342	VALVE; KNIFE;	VALVE; KNIFE GATE, ALL MATERIALS TYPE,SIZE ALL SIZES,04-SAMSS-035,04-SAMSS-048,ALL PRESSURES	
Static Equipment	600000012	PIPE; STEEL API 5L; SAW STRAIGHT; SOUR	PIPE METALLIC; ALL SIZE NPS,ANY,STEEL,GR GRADE B THRU X65,SAW STRAIGHT SEAM,BARE,BEVELED ENDS,API 5L,01-SAMSS-035,SOUR SERVICE	
Static Equipment	6000010871	PIPE METALLIC; SAW STRAIGHT; NON SOUR	PIPE METALLIC; ALL SIZE NPS,ANY,CS,GR GRADE B THRU X70,STRAIGHT SAW,API 5L,01-SAMSS-035,NON SOUR SERVICE	
Static Equipment	6000000160	CEMENT LINING;TYPE INTERNAL;FITTING	LINING; ANY TYPE,CEMENT,01-SAMSS-005,INTERNAL LINING FOR STEEL PIPE FITTING#	
Static Equipment	600000003	CEMENT LINING;TYPE INTERNAL;	LINING; ANY TYPE,CEMENT,01-SAMSS-005,INTERNAL LINING FOR STEEL PIPE. ONSHORE UTILITIES  VALVE, BALL; SIZE 2-1/16 IN AND UP,2000-5000 PSI SUPPLY,FLANGED, HUBBED OR BUTTWELD END CONN,ANY BODY,STYLE SPLIT BODY OR TOP ENTRY, TRUNNION	
Static Equipment	6000015607	VALVE; BALL;MS,2-1/16 IN & UP,2K-5K PSI,	SUPPORTED SUPPORT, METAL SEATED SEAT, 04-SAMSS-055, API 6A	
Static Equipment	6000000482	LUMBER; PRESSURE TREATED	LUMBER; ANY NPS, PRESSURE TREATED, 09-SAMSS-002, ONSHORE UTILITIES ONLY  CRANE; FIXED BASE FREE STANDING HAMMERHEAD TOWER CRANE LATTIC TYPE, 18 METRIC TON (MAXIMUM), SIZE VARIES AS PER DSN REQUIREMENT, E B30.3, D1.1 D14.3, A	
Static Equipment	6000002260	CRANE; TOWER;	70 ASME B30.3, AWS D1.1 AWS D14.3, NFPA 70 OFFSHORE: SAES-W-013, ONSHORE CRANE: 12-SAMSS-007 SAES-H-001 # OFFSHORE CRANE: 12-SAMSS-018 SAES-H-004# SAES-W-013	
Static Equipment	6000014710	FLANGE; PIPE: CONNECTOR, MECHANICAL END	FLANGE PIPE; CONNECTOR TYPE,ANY NPS,ANY,MECHANICAL END CONNECTORS	
Static Equipment	600000145	TEE PIPE; BW TERMINAL, ANY NPS, ALLOY STEEL (LOW ALLOY STEEL, STAINLESS STEEL AND NICKEL ALLOY),	TEE PIPE; BW TERMINAL, ANY NPS, ALLOY STEEL (LOW ALLOY STEEL, STAINLESS STEEL AND NICKEL ALLOY), 02-SAMSS-013	
Static Equipment	6000000081	CAP PIPE; SW OR THREADED, NPT TERMINAL, MM, IN NPS, ALLOY STEEL	CAP PIPE; SW OR THREADED, NPT TERMINAL, MM, IN NPS, ALLOY STEEL, MM(IN), CLASS SUPPLY, ASTM, GR STEEL GREDE, FORGED, SEAMLESS, BARE FINISH, ANSI B1.20.1, ANSI B16.11, ANSI B16.11, ALLOY STEEL INCLUDING LOW ALLOY STEEL, STAINLESS STEEL, AND NICKEL ALLOY.	
Static Equipment	600000146	TEE PIPE; BW TERMINAL, ANY NPS, CARBON STEEL	TEE PIPE; BW TERMINAL, ANY NPS, CARBON STEEL, 02-SAMSS-005, (INCLUDING LOW TEMPERATURE CARBON STEEL)	
Static Equipment	6000000328	VALVE;PLUG;UP TO NPS 12 CAST OR DUCTILE	VALVE;PLUG;UP TO NPS 12 CAST OR DUCTILE	
Static Equipment	6000000686	BUILDING; SPACE FRAME; STEEL;	BUILDING; SPACE FRAME; STEEL;	
Static Equipment	6000013820	REACTOR INTERNALS	REACTOR INTERNALS	
Static Equipment	6000014900	MACHINE; HOT TAP; PIPELINE SERVICE	MACHINE; HOT TAP; PIPELINE SERVICE  VALVE: BUTTERELY BALL OR CHECK TYPE SIZE NDS 2 THRU 20 ASME CLASS 150 & 300 SURDLY ELANGED END CONN COMPOSITE (NON-METALLIC)	
Static Equipment Static Equipment	6000014491 6000014971	VALVE; NPS 2 TO 20, COMPOSITE MATERIAL  COUPLER:LPG TRUCK LOADING,INCLUDE VAPOR	VALVE; BUTTERFLY, BALL OR CHECK TYPE, SIZE NPS 2 THRU 20,ASME CLASS 150 & 300 SUPPLY, FLANGED END CONN, COMPOSITE (NON-METALLIC) BODY  COUPLER; LPG TRUCK LOADING TYPE, SIZE ALL SIZES, HARD PIPE TERMINAL, 04-SAMSS-035, 04-SAMSS-048, INCLUDE VAPOR AND BREAKAWAY COUPLERS, INDUSTRY	
Static Equipment Static Equipment	6000014971	FENCE, RIGID WELDED MESH (RWM), 3 METERS	STANDARD ENDS AND FENCE; RIGID WELDED MESH (RWM) FENCE TYPE,AS PER SAES-O-202 REQUIREMENTS	
	6000002453		MIXER; SIDE ENTRY; 32-SAMSS-017; GEARED;	
Rotating Equipment  Rotating Equipment	6000002453	MIXER; SIDE ENTRY; 32-SAMSS-017; GEARED; PUMP, CENTRIFUGAL, HORIZONTAL, MOLTEN SULPHUR	PUMP, CENTRIFUGAL, HORIZONTAL, MOLTEN SULPHUR	
Rotating Equipment	6000008842	FILTER; AIR, WITH BLEED FAN	FILTER; AIR, WITH BLEED FAN	
Rotating Equipment	6000017500	UNIT, METALLIC 3DPRINTING/ADDITIVE MANUF	UNIT; METALLIC 3DPRINTING/ADDITIVE MANUFACTURING INCLUDING ALL TYPE OF STEEL (E.G. INCONEL, TITANIUM, STAINLESS STEEL) TYPE, ANY METALLIC 3D PRINTED PRODUCT INCLUDING NEW PARTS MANUFACTURING, PART MODIFICATION AND REPAIR. METALLIC PART SUCH AS ROTATING EQUIPMENT, STATIC EQUIPMENT AND DRILL	
Rotating Equipment	6000003344	COMPRESSOR AID CENTRIFICAL INTEGRALLY	EQUIPMENT  COMMDRESSOR AIR: CENTRIFIED INTEGRALLY GRAPED TYPE 31.SAMSS-006	
Rotating Equipment	6000002244	COMPRESSOR; AIR; CENTRIFUGAL; INTEGRALLY	COMPRESSOR AIR; CENTRIFUGAL, INTEGRALLY GEARED TYPE,31-SAMSS-006  EILTER ELEMENT: FOR COMPUSTION GAS TURBINE 32-SAMSS-008 AIR INLET. FINAL STAGE	
Rotating Equipment  Rotating Equipment	6000002417 6000002367	FILTER; ELEMENT; COMBUSTION GAS TURBINE; PUMP; CENTRIFUGAL; CANNED MOTOR;	FILTER ELEMENT; FOR COMBUSTION GAS TURBINE,32-SAMSS-008,AIR INLET, FINAL STAGE  PUMP CENTRIFUGAL; CANNED MOTOR TYPE,SIZE ANY,ANY,SINGLE STAGE(S),ASME B73.3M / ISO15783	
Rotating Equipment  Rotating Equipment	6000016780	EJECTOR; PROCESS GAS	EJECTOR; GAS OR LIQUID, ANY PROCESS, ANY, NACE MR-0175/ISO-15156, EJECTOR PACKAGE FOR PROCESS GAS COMPRESSION. NOT FOR STEAM-VACUUM SERVICES.	
Rotating Equipment	6000002371	PUMP; CENTRIFUGAL;VERTICAL;MOLTON SULFUR	PUMP CENTRIFUGAL; VERTICAL TYPE,SIZE ANY,ANY,SINGLE STAGE(S),MFR STD DESIGN +SAES-G-005,MOLTEN SULFUR, SUMP	
Rotating Equipment	6000002452	Mixer; Process; Propeller; Geared; Belt	MIXER; PROCESS TYPE,MFR STANDARDS,PROPELLER, GEARED, BELT OR DIRECT DRIVE	
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6000010363 6000017940 6000012484 6000001011 6000001040 6000012080 6000016800 6000016801 6000016802 6000011555 6000012042	Description	2022 Material Sourcing List Updated: July, 2023  Long Description  PUMP; MULTIPHASE, HELICO-AXIAL TYPE,ANY,31-SAMSS-004  PUMP SUBMERSIBLE; ANY,CRYOGENIC PER API 610, COMPLETE UNIT, PUMP ALONE OR MOTOR ALONE, INCLUDING ACCESSORIES  TURBINE COMBUSTION GAS; GAS TURBINE GENERATORS TYPE,UP TO 500 KW,32-SAMSS-100,S-K-502,MICROTURBINES  BEADS; SIZE ANY,NATURAL OR SYNTHETIC RUBBER SPONGE, POLYVINYL CHLORIDE FOAM, POLYETHYLENE FOAM OTHER SUITABLE MATERIAL,FLOAT  COLLAR FOR MARINE HOSES UNIT. 22-SAMSS-004 E FLOATATION  POWER SUPPLY ELECTRICAL; HODIC PROTECTION POWER PLY ELECTRICAL SOLAR POWER TYPE, ANY POWER, ANY, 17-SAMSS-012  ANODE GALVANIC; MAGNESIUM,17-SAMSS-006,CATHODIC PROTECTION WITHOUT LEADS  BOX ELECTRICAL; CATHODIC PROTECTION UNDERGROUND ANODE BED JUNCTION BOX TYPE, SIZE 2500CM3 (MINIMUM), CYLINDRICAL OR BOX SHAPE, 12X16MM2 AND 2X70MM2 CONNECTN,12+2 TERMINAL SCREW LUG COONECTN, FOR WEATHERPROOF (DIRECT BURIAL),NON-CLASSIFIED, NON-METALLIC SUITABLE FOR DIRECT BURIAL AND IMMERSION SERVICE IN AMBIENT TEMPERATURE SEAWATER, OPTIONAL FINISH,OPTIONAL THK,17-SAMSS-008 'JUNCTION BOX FOR CATHODIC PROTECTION', MEMBRANE GLANDS & FILLER/ SEALING COMPOUND SUITABLE FOR DIRECT BURIAL AND IMMERSION SERVICE IN AMBIENT TEMPERATURE SEAWATE  ANODE GALVANIC; ALUMINUM, WITHOUT LEAD, 17-SAMSS-006, CATHODIC PROTECTION  ANODE GALVANIC; ALUMINUM, WITHOUT LEAD, 17-SAMSS-006, CATHODIC PROTECTION  ANODE GALVANIC; ZINC, WITHOUT LEAD, 17-SAMSS-006, CATHODIC PROTECTION  ANODE IMPRESSED CURRENT; GRID SYSTEM, WITHOUT LEAD TERMINAL,MIXED METAL OXIDE COATED TITANIUM BASE, TITANIUM CONDUCTOR BAR & ANODE WIRE CONNECTION,FOR CATHODIC PROTECTION,17-SAMSS-007  POWER SUPPLY UNINTERRUPTIBLE; ABOVE 200 KVA POWER,17-SAMSS-516, SAES-P-103, MANUFACTURER STANDARD PRODUCT, IT & COMMUNICATION	
6000010363 6000017940 6000012484 6000001011 6000001040 6000012080 6000016800 6000016801 6000016802 6000011555 6000012042	PUMP; MULTIPHASE, HELICO-AXIAL TYPE,ANY,31-SAMSS-004 PUMP SUBMERSIBLE, CRYOGENIC PER API 610 MICROTURBINES: GAS TURBINE GENERATORS, U FLOAT COLLAR; FOR MARINE HOSE POWER SUPPLY;ELECTRICAL;SOLAR,CP ANODE GALVANIC;MAGNESIUM,WITHOUT LEAD,CP  BOX: JUNCTION, FOR U/G ANODE BED,CP  ANODE; GALVANIC; ALUMINUM, WITHOUT LEAD ANODE; GALVANIC; ZINC, WITHOUT LEAD; CP  ANODE; MIMO GRID, WITHOUT LEAD; CP  UPS SYSTEM ABOVE 200 KVA	PUMP; MULTIPHASE, HELICO-AXIAL TYPE,ANY,31-SAMSS-004  PUMP SUBMERSIBLE; ANY,CRYOGENIC PER API 610, COMPLETE UNIT, PUMP ALONE OR MOTOR ALONE, INCLUDING ACCESSORIES  TURBINE COMBUSTION GAS; GAS TURBINE GENERATORS TYPE,UP TO 500 KW,32-SAMSS-100,S-K-502,MICROTURBINES  BEADS; SIZE ANY,NATURAL OR SYNTHETIC RUBBER SPONGE, POLYVINYL CHLORIDE FOAM, POLYETHYLENE FOAM OTHER SUITABLE MATERIAL.,FLOAT  COLLAR FOR MARINE HOSES UNIT. 22-SAMSS-004 E FLOATATION  POWER SUPPLY ELECTRICAL; HODIC PROTECTION POWER PLY ELECTRICAL SOLAR POWER TYPE, ANY POWER, ANY, 17-SAMSS-012  ANODE GALVANIC; MAGNESIUM,17-SAMSS-006,CATHODIC PROTECTION WITHOUT LEADS  BOX ELECTRICAL; CATHODIC PROTECTION UNDERGROUND ANODE BED JUNCTION BOX TYPE, SIZE 2500CM3 (MINIMUM), CYLINDRICAL OR BOX SHAPE, 12X16MM2 AND  2X70MM2 CONNECTN,12+2 TERMINAL SCREW LUG COONECTN, FOR WEATHERPROOF (DIRECT BURIAL),NON-CLASSIFIED, NON-METALLIC SUITABLE FOR DIRECT BURIAL AND  IMMERSION SERVICE IN AMBIENT TEMPERATURE SEAWATER, OPTIONAL FINISH,OPTIONAL THK,17-SAMSS-008 'JUNCTION BOX FOR CATHODIC PROTECTION', MEMBRANE  GLANDS & FILLER/ SEALING COMPOUND SUITABLE FOR DIRECT BURIAL AND IMMERSION SERVICE IN AMBIENT TEMPERATURE SEAWATE  ANODE GALVANIC; ALUMINUM, WITHOUT LEAD,17-SAMSS-006, CATHODIC PROTECTION  ANODE GALVANIC; SINC, WITHOUT LEAD, 17-SAMSS-006, CATHODIC PROTECTION  ANODE IMPRESSED CURRENT; GRID SYSTEM, WITHOUT LEAD TERMINAL,MIXED METAL OXIDE COATED TITANIUM BASE, TITANIUM CONDUCTOR BAR & ANODE WIRE  CONNECTION,FOR CATHODIC PROTECTION,17-SAMSS-007  POWER SUPPLY UNINTERRUPTIBLE; ABOVE 200 KVA POWER,17-SAMSS-516, SAES-P-103	
6000017940 6000012484 6000001430 6000001011 6000001040 6000012080 6000016800 6000016801 6000016802 6000011555 6000012042	PUMP SUBMERSIBLE, CRYOGENIC PER API 610 MICROTURBINES: GAS TURBINE GENERATORS, U FLOAT COLLAR; FOR MARINE HOSE POWER SUPPLY;ELECTRICAL;SOLAR,CP ANODE GALVANIC;MAGNESIUM,WITHOUT LEAD,CP  BOX: JUNCTION, FOR U/G ANODE BED,CP  ANODE; GALVANIC; ALUMINUM, WITHOUT LEAD ANODE; GALVANIC; ZINC, WITHOUT LEAD; CP ANODE; MMO GRID, WITHOUT LEAD; CP  UPS SYSTEM ABOVE 200 KVA	PUMP SUBMERSIBLE; ANY,CRYOGENIC PER API 610, COMPLETE UNIT, PUMP ALONE OR MOTOR ALONE, INCLUDING ACCESSORIES  TURBINE COMBUSTION GAS; GAS TURBINE GENERATORS TYPE,UP TO 500 KW,32-SAMSS-100,S-K-502,MICROTURBINES  BEADS; SIZE ANY,NATURAL OR SYNTHETIC RUBBER SPONGE, POLYVINYL CHLORIDE FOAM, POLYETHYLENE FOAM OTHER SUITABLE MATERIAL.,FLOAT  COLLAR FOR MARINE HOSES UNIT. 22-SAMSS-004 E FLOATATION  POWER SUPPLY ELECTRICAL; HODIC PROTECTION POWER PLY ELECTRICAL SOLAR POWER TYPE, ANY POWER, ANY, 17-SAMSS-012  ANODE GALVANIC; MAGNESIUM,17-SAMSS-006,CATHODIC PROTECTION WITHOUT LEADS  BOX ELECTRICAL; CATHODIC PROTECTION UNDERGROUND ANODE BED JUNCTION BOX TYPE, SIZE 2500CM3 (MINIMUM), CYLINDRICAL OR BOX SHAPE, 12X16MM2 AND 2X70MM2 CONNECTN,12+2 TERMINAL SCREW LUG COONECTN, FOR WEATHERPROOF (DIRECT BURIAL),NON-CLASSIFIED, NON-METALLIC SUITABLE FOR DIRECT BURIAL AND IMMERSION SERVICE IN AMBIENT TEMPERATURE SEAWATER, OPTIONAL FINISH, OPTIONAL THK,17-SAMSS-008 'JUNCTION BOX FOR CATHODIC PROTECTION', MEMBRANE GLANDS & FILLER/ SEALING COMPOUND SUITABLE FOR DIRECT BURIAL AND IMMERSION SERVICE IN AMBIENT TEMPERATURE SEAWATE  ANODE GALVANIC; ALUMINUM, WITHOUT LEAD,17-SAMSS-006, CATHODIC PROTECTION  ANODE GALVANIC; ZINC, WITHOUT LEAD, 17-SAMSS-006, CATHODIC PROTECTION  ANODE IMPRESSED CURRENT; GRID SYSTEM, WITHOUT LEAD TERMINAL,MIXED METAL OXIDE COATED TITANIUM BASE, TITANIUM CONDUCTOR BAR & ANODE WIRE CONNECTION, FOR CATHODIC PROTECTION, 17-SAMSS-007  POWER SUPPLY UNINTERRUPTIBLE; ABOVE 200 KVA POWER,17-SAMSS-516, SAES-P-103	
6000012484 6000001430 6000001011 6000001040 6000012080 6000016800 6000016801 6000016802 6000011555 6000012042	MICROTURBINES: GAS TURBINE GENERATORS, U  FLOAT COLLAR; FOR MARINE HOSE  POWER SUPPLY;ELECTRICAL;SOLAR,CP  ANODE GALVANIC;MAGNESIUM,WITHOUT LEAD,CP  BOX: JUNCTION, FOR U/G ANODE BED,CP  ANODE; GALVANIC; ALUMINUM, WITHOUT LEAD  ANODE; GALVANIC; ZINC, WITHOUT LEAD; CP  ANODE; MMO GRID, WITHOUT LEAD; CP  UPS SYSTEM ABOVE 200 KVA	TURBINE COMBUSTION GAS; GAS TURBINE GENERATORS TYPE, UP TO 500 KW, 32-SAMSS-100, S-K-502, MICROTURBINES  BEADS; SIZE ANY, NATURAL OR SYNTHETIC RUBBER SPONGE, POLYVINYL CHLORIDE FOAM, POLYETHYLENE FOAM OTHER SUITABLE MATERIAL, FLOAT  COLLAR FOR MARINE HOSES UNIT. 22-SAMSS-004 E FLOATATION  POWER SUPPLY ELECTRICAL; HODIC PROTECTION POWER PLY ELECTRICAL SOLAR POWER TYPE, ANY POWER, ANY, 17-SAMSS-012  ANODE GALVANIC; MAGNESIUM, 17-SAMSS-006, CATHODIC PROTECTION WITHOUT LEADS  BOX ELECTRICAL; CATHODIC PROTECTION UNDERGROUND ANODE BED JUNCTION BOX TYPE, SIZE 2500CM3 (MINIMUM), CYLINDRICAL OR BOX SHAPE, 12X16MM2 AND 2X70MM2 CONNECTN, 12+2 TERMINAL SCREW LUG COONECTN, FOR WEATHERPROOF (DIRECT BURIAL), NON-CLASSIFIED, NON-METALLIC SUITABLE FOR DIRECT BURIAL AND IMMERSION SERVICE IN AMBIENT TEMPERATURE SEAWATER, OPTIONAL FINISH, OPTIONAL THK, 17-SAMSS-008 'JUNCTION BOX FOR CATHODIC PROTECTION', MEMBRANE GLANDS & FILLER/ SEALING COMPOUND SUITABLE FOR DIRECT BURIAL AND IMMERSION SERVICE IN AMBIENT TEMPERATURE SEAWATE  ANODE GALVANIC; ALUMINUM, WITHOUT LEAD, 17-SAMSS-006, CATHODIC PROTECTION  ANODE GALVANIC; ZINC, WITHOUT LEAD, 17-SAMSS-006, CATHODIC PROTECTION  ANODE IMPRESSED CURRENT; GRID SYSTEM, WITHOUT LEAD TERMINAL, MIXED METAL OXIDE COATED TITANIUM BASE, TITANIUM CONDUCTOR BAR & ANODE WIRE CONNECTION, FOR CATHODIC PROTECTION, 17-SAMSS-007  POWER SUPPLY UNINTERRUPTIBLE; ABOVE 200 KVA POWER, 17-SAMSS-516, SAES-P-103	
600001430 600001011 600001040 6000012080 6000016800 6000016801 6000016802 6000011555 6000012042	FLOAT COLLAR; FOR MARINE HOSE  POWER SUPPLY;ELECTRICAL;SOLAR,CP  ANODE GALVANIC;MAGNESIUM,WITHOUT LEAD,CP  BOX: JUNCTION, FOR U/G ANODE BED,CP  ANODE; GALVANIC; ALUMINUM, WITHOUT LEAD  ANODE; GALVANIC; ZINC, WITHOUT LEAD; CP  ANODE; MIMO GRID, WITHOUT LEAD; CP  UPS SYSTEM ABOVE 200 KVA	BEADS; SIZE ANY,NATURAL OR SYNTHETIC RUBBER SPONGE, POLYVINYL CHLORIDE FOAM, POLYETHYLENE FOAM OTHER SUITABLE MATERIAL.,FLOAT COLLAR FOR MARINE HOSES UNIT. 22-SAMSS-004 E FLOATATION  POWER SUPPLY ELECTRICAL; HODIC PROTECTION POWER PLY ELECTRICAL SOLAR POWER TYPE, ANY POWER, ANY, 17-SAMSS-012  ANODE GALVANIC; MAGNESIUM,17-SAMSS-006,CATHODIC PROTECTION WITHOUT LEADS  BOX ELECTRICAL; CATHODIC PROTECTION UNDERGROUND ANODE BED JUNCTION BOX TYPE, SIZE 2500CM3 (MINIMUM), CYLINDRICAL OR BOX SHAPE, 12X16MM2 AND 2X70MM2 CONNECTN,12+2 TERMINAL SCREW LUG COONECTN, FOR WEATHERPROOF (DIRECT BURIAL),NON-CLASSIFIED, NON-METALLIC SUITABLE FOR DIRECT BURIAL AND IMMERSION SERVICE IN AMBIENT TEMPERATURE SEAWATER, OPTIONAL FINISH,OPTIONAL THK,17-SAMSS-008 'JUNCTION BOX FOR CATHODIC PROTECTION', MEMBRANE GLANDS & FILLER/ SEALING COMPOUND SUITABLE FOR DIRECT BURIAL AND IMMERSION SERVICE IN AMBIENT TEMPERATURE SEAWATE  ANODE GALVANIC; ALUMINUM, WITHOUT LEAD,17-SAMSS-006, CATHODIC PROTECTION  ANODE GALVANIC; ZINC, WITHOUT LEAD, 17-SAMSS-006, CATHODIC PROTECTION  ANODE IMPRESSED CURRENT; GRID SYSTEM, WITHOUT LEAD TERMINAL,MIXED METAL OXIDE COATED TITANIUM BASE, TITANIUM CONDUCTOR BAR & ANODE WIRE CONNECTION,FOR CATHODIC PROTECTION,17-SAMSS-007  POWER SUPPLY UNINTERRUPTIBLE; ABOVE 200 KVA POWER,17-SAMSS-516, SAES-P-103	
600001011 600001040 6000012080 6000016800 6000016801 6000016802 6000011555 6000012042	POWER SUPPLY;ELECTRICAL;SOLAR,CP  ANODE GALVANIC;MAGNESIUM,WITHOUT LEAD,CP  BOX: JUNCTION, FOR U/G ANODE BED,CP  ANODE; GALVANIC; ALUMINUM, WITHOUT LEAD  ANODE; GALVANIC; ZINC, WITHOUT LEAD; CP  ANODE; MMO GRID, WITHOUT LEAD; CP  UPS SYSTEM ABOVE 200 KVA	COLLAR FOR MARINE HOSES UNIT. 22-SAMSS-004 E FLOATATION  POWER SUPPLY ELECTRICAL; HODIC PROTECTION POWER PLY ELECTRICAL SOLAR POWER TYPE, ANY POWER, ANY, 17-SAMSS-012  ANODE GALVANIC; MAGNESIUM,17-SAMSS-006,CATHODIC PROTECTION WITHOUT LEADS  BOX ELECTRICAL; CATHODIC PROTECTION UNDERGROUND ANODE BED JUNCTION BOX TYPE, SIZE 2500CM3 (MINIMUM), CYLINDRICAL OR BOX SHAPE, 12X16MM2 AND 2X70MM2 CONNECTN,12+2 TERMINAL SCREW LUG COONECTN, FOR WEATHERPROOF (DIRECT BURIAL),NON-CLASSIFIED, NON-METALLIC SUITABLE FOR DIRECT BURIAL AND IMMERSION SERVICE IN AMBIENT TEMPERATURE SEAWATER, OPTIONAL FINISH,OPTIONAL THK,17-SAMSS-008 'JUNCTION BOX FOR CATHODIC PROTECTION', MEMBRANE GLANDS & FILLER/ SEALING COMPOUND SUITABLE FOR DIRECT BURIAL AND IMMERSION SERVICE IN AMBIENT TEMPERATURE SEAWATE  ANODE GALVANIC; ALUMINUM, WITHOUT LEAD, 17-SAMSS-006, CATHODIC PROTECTION  ANODE GALVANIC; ZINC, WITHOUT LEAD, 17-SAMSS-006, CATHODIC PROTECTION  ANODE IMPRESSED CURRENT; GRID SYSTEM, WITHOUT LEAD TERMINAL,MIXED METAL OXIDE COATED TITANIUM BASE, TITANIUM CONDUCTOR BAR & ANODE WIRE CONNECTION, FOR CATHODIC PROTECTION, 17-SAMSS-007  POWER SUPPLY UNINTERRUPTIBLE; ABOVE 200 KVA POWER,17-SAMSS-516, SAES-P-103	
600001040  6000012080  6000016800  6000016802  6000011555  6000012042	ANODE GALVANIC; MAGNESIUM, WITHOUT LEAD, CP  BOX: JUNCTION, FOR U/G ANODE BED, CP  ANODE; GALVANIC; ALUMINUM, WITHOUT LEAD  ANODE; GALVANIC; ZINC, WITHOUT LEAD; CP  ANODE; MIMO GRID, WITHOUT LEAD; CP  UPS SYSTEM ABOVE 200 KVA	ANODE GALVANIC; MAGNESIUM,17-SAMSS-006,CATHODIC PROTECTION WITHOUT LEADS  BOX ELECTRICAL; CATHODIC PROTECTION UNDERGROUND ANODE BED JUNCTION BOX TYPE, SIZE 2500CM3 (MINIMUM), CYLINDRICAL OR BOX SHAPE, 12X16MM2 AND 2X70MM2 CONNECTN,12+2 TERMINAL SCREW LUG COONECTN, FOR WEATHERPROOF (DIRECT BURIAL),NON-CLASSIFIED, NON-METALLIC SUITABLE FOR DIRECT BURIAL AND IMMERSION SERVICE IN AMBIENT TEMPERATURE SEAWATER, OPTIONAL FINISH,OPTIONAL THK,17-SAMSS-008 'JUNCTION BOX FOR CATHODIC PROTECTION', MEMBRANE GLANDS & FILLER/ SEALING COMPOUND SUITABLE FOR DIRECT BURIAL AND IMMERSION SERVICE IN AMBIENT TEMPERATURE SEAWATE  ANODE GALVANIC; ALUMINUM, WITHOUT LEAD,17-SAMSS-006,CATHODIC PROTECTION  ANODE GALVANIC; ZINC, WITHOUT LEAD, 17-SAMSS-006, CATHODIC PROTECTION  ANODE IMPRESSED CURRENT; GRID SYSTEM, WITHOUT LEAD TERMINAL,MIXED METAL OXIDE COATED TITANIUM BASE, TITANIUM CONDUCTOR BAR & ANODE WIRE CONNECTION,FOR CATHODIC PROTECTION,17-SAMSS-007  POWER SUPPLY UNINTERRUPTIBLE; ABOVE 200 KVA POWER,17-SAMSS-516, SAES-P-103	
6000012080 6000016800 6000016801 6000016802 6000011555 6000012042	BOX: JUNCTION, FOR U/G ANODE BED,CP  ANODE; GALVANIC; ALUMINUM, WITHOUT LEAD  ANODE; GALVANIC; ZINC, WITHOUT LEAD; CP  ANODE; MIMO GRID, WITHOUT LEAD; CP  UPS SYSTEM ABOVE 200 KVA	BOX ELECTRICAL; CATHODIC PROTECTION UNDERGROUND ANODE BED JUNCTION BOX TYPE, SIZE 2500CM3 (MINIMUM), CYLINDRICAL OR BOX SHAPE, 12X16MM2 AND 2X70MM2 CONNECTN,12+2 TERMINAL SCREW LUG COONECTN, FOR WEATHERPROOF (DIRECT BURIAL),NON-CLASSIFIED, NON-METALLIC SUITABLE FOR DIRECT BURIAL AND IMMERSION SERVICE IN AMBIENT TEMPERATURE SEAWATER, OPTIONAL FINISH,OPTIONAL THK,17-SAMSS-008 'JUNCTION BOX FOR CATHODIC PROTECTION', MEMBRANE GLANDS & FILLER/ SEALING COMPOUND SUITABLE FOR DIRECT BURIAL AND IMMERSION SERVICE IN AMBIENT TEMPERATURE SEAWATE  ANODE GALVANIC; ALUMINUM, WITHOUT LEAD,17-SAMSS-006,CATHODIC PROTECTION  ANODE GALVANIC; ZINC, WITHOUT LEAD, 17-SAMSS-006, CATHODIC PROTECTION  ANODE IMPRESSED CURRENT; GRID SYSTEM, WITHOUT LEAD TERMINAL,MIXED METAL OXIDE COATED TITANIUM BASE, TITANIUM CONDUCTOR BAR & ANODE WIRE CONNECTION,FOR CATHODIC PROTECTION,17-SAMSS-007  POWER SUPPLY UNINTERRUPTIBLE; ABOVE 200 KVA POWER,17-SAMSS-516, SAES-P-103	
6000016800 6000016801 6000016802 6000011555 6000012042	ANODE; GALVANIC; ALUMINUM, WITHOUT LEAD ANODE; GALVANIC; ZINC, WITHOUT LEAD; CP ANODE; MMO GRID, WITHOUT LEAD; CP UPS SYSTEM ABOVE 200 KVA	2X70MM2 CONNECTN,12+2 TERMINAL SCREW LUG COONECTN, FOR WEATHERPROOF (DIRECT BURIAL),NON-CLASSIFIED, NON-METALLIC SUITABLE FOR DIRECT BURIAL AND IMMERSION SERVICE IN AMBIENT TEMPERATURE SEAWATER, OPTIONAL FINISH,OPTIONAL THK,17-SAMSS-008 'JUNCTION BOX FOR CATHODIC PROTECTION', MEMBRANE GLANDS & FILLER/ SEALING COMPOUND SUITABLE FOR DIRECT BURIAL AND IMMERSION SERVICE IN AMBIENT TEMPERATURE SEAWATE  ANODE GALVANIC; ALUMINUM, WITHOUT LEAD,17-SAMSS-006,CATHODIC PROTECTION  ANODE GALVANIC; ZINC, WITHOUT LEAD, 17-SAMSS-006, CATHODIC PROTECTION  ANODE IMPRESSED CURRENT; GRID SYSTEM, WITHOUT LEAD TERMINAL,MIXED METAL OXIDE COATED TITANIUM BASE, TITANIUM CONDUCTOR BAR & ANODE WIRE CONNECTION,FOR CATHODIC PROTECTION,17-SAMSS-007  POWER SUPPLY UNINTERRUPTIBLE; ABOVE 200 KVA POWER,17-SAMSS-516, SAES-P-103	
6000016801 6000016802 6000011555 6000012042	ANODE; GALVANIC; ZINC, WITHOUT LEAD; CP  ANODE; MMO GRID, WITHOUT LEAD; CP  UPS SYSTEM ABOVE 200 KVA	ANODE GALVANIC; ZINC, WITHOUT LEAD, 17-SAMSS-006, CATHODIC PROTECTION  ANODE IMPRESSED CURRENT; GRID SYSTEM, WITHOUT LEAD TERMINAL, MIXED METAL OXIDE COATED TITANIUM BASE, TITANIUM CONDUCTOR BAR & ANODE WIRE CONNECTION, FOR CATHODIC PROTECTION, 17-SAMSS-007  POWER SUPPLY UNINTERRUPTIBLE; ABOVE 200 KVA POWER, 17-SAMSS-516, SAES-P-103	
6000016802 6000011555 6000012042	ANODE; MMO GRID, WITHOUT LEAD; CP  UPS SYSTEM ABOVE 200 KVA	ANODE IMPRESSED CURRENT; GRID SYSTEM, WITHOUT LEAD TERMINAL,MIXED METAL OXIDE COATED TITANIUM BASE, TITANIUM CONDUCTOR BAR & ANODE WIRE CONNECTION,FOR CATHODIC PROTECTION,17-SAMSS-007  POWER SUPPLY UNINTERRUPTIBLE; ABOVE 200 KVA POWER,17-SAMSS-516, SAES-P-103	
6000011555 6000012042	UPS SYSTEM ABOVE 200 KVA	CONNECTION,FOR CATHODIC PROTECTION,17-SAMSS-007 POWER SUPPLY UNINTERRUPTIBLE; ABOVE 200 KVA POWER,17-SAMSS-516, SAES-P-103	
6000012042		POWER SUPPLY UNINTERRUPTIBLE; ABOVE 200 KVA POWER,17-SAMSS-516, SAES-P-103	
6000012042			
	UPS SYS ABOVE 10 TO 200KVA FOR IT & COMM		
6000015902	<u>'</u>	PRODUCT RANGE	
	UNIT; MOBILE SUBSTATION	UNIT; MOBILE SUBSTATION TYPE,TMSS-01,35-TMSS-1 TMSS-10,46-TMSS-6 TMSS-1,31-TMSS-2 TMSS-2,32-TMSS-3 51-TMSS-1,37-TMSS-1 TMSS-03,11-SDMS-03 54-TMSS-1, MOBILE SUBSTATION AS PER ATTACHED TECHNICAL SPECIFICATION, BASED ON SEC STANDARDS.#SCOPE INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING: ENGINEERING DESIGN, MANUFACTURING, ASSEMBLING, FACTORY TESTING, DELIVERY TO KSA, MINISTRY OF TRANSPORT APPROVAL, DOCUMENTATION,#SPARE PARTS CATALOGUE, SUPPLY OF CRITICAL SPARE PARTS FOR COMMISSIONING, SITE PRE-COMMISSIONING.#	
	CAPACITOR BANK	UNIT; SHUNT CAPACITOR TYPE, 43-TMSS-01, SAES-P-116, POWER FACTOR CORRECTION CAPACITOR BANK 4.16KV THROUGH 380KV	
6000017620	UNIT, PREFABRICATED SUBSTATION, Yes, Yes	UNIT; PREFABRICATED SUBSTATION TYPE,16-SAMSS-524, PREFABRICATED SUBSTATIONS RATED UP TO 52KV FOR OFFSHORE AND ONSHORE.	
		SWITCH DISCONNECT; HIGH VOLTAGE, ANY ACTION, ELECTRICAL TYPE, 30-TMSS-01  BUS; SIZE ANY, ANY, 16-SAMSS-523, ISOLATED PHASE BUS DUCT	
	·	BUS; SIZE ANY, ANY, 16-SAMSS-523, ISOLATED PHASE BUS DUCT UNIT; MOBILE SUBSTATION TYPE, OPERATING AT 69KV AND BELOW	
6000017680	COATING, ELECTRICAL INSULATORS, HIGH VOL	COATING; ELECTRICAL INSULATORS TYPE, FOR HIGH VOLTAGE, SILICON	
	OHL COMPOSITE INSULATOR FOR T & D	INSULATOR TRANSMISSION & DISTRIBUTION; OHL COMPOSITE TYPE, UP TO 230 KV,15-SDMS-02,15-TMSS-5	
6000000774	TRAY; CABLE, FIBERGLASS	TRAY; CABLE TYPE, FIBERGLASS, NEMA FG-1, S-P-104 SEC. 9	
6000014870	POLE LINE; POWER TRANSMISSION, 69 KV	POLE LINE; POWER TRANSMISSION TYPE,ANY LG,TAPERED TUBULAR STEEL SHAPE,GALVANIZED STEEL,SEC 20-TMSS-02,RATED 69 KV AND UP	
6000002658	ANALYZER; CHLORINE;	ANALYZER; CHLORINE;	
		MONITOR; FLAME MONITORING SYSTEM	
		Custody Tank Management System, Radar	
	·	VALVE; CONTROL, CUSTODY DIGITAL FLOW CON  NEGATIVE PRESSURE WAVE (ACOUSTIC) PLDS	
	· · ·	CONTROLLER; COMPRESSOR INCLUDING SURGE CONTROL TYPE, ANY RANGE, SPECIALIZED CONTROL SYSTEMS	
6000009899	CUSTODY FLOW COMPUTER, LIQUID, PANEL-MNT	COMPUTER FLOW; PANEL MOUNTED TYPE,34-SAMSS-841,FOR LIQUID CUSTODY TRANSFER	
6000002655	ANALYZER; BOTTOM SEDIMENT AND WATER;	ANALYZER; BOTTOM SEDIMENT AND WATER TYPE,ANY RANGE,TO BE USED FOR LIQUID SERVICE APPLICATION ONLY NOT IN MULTI-PHASE SERVICE	
6000002677	FLOWMETER; ANNUBAR; PITOT TUBE;	FLOWMETER; ANNUBAR, PITOT TUBE TYPE	
6000002742	FLOWMETER:FOR REDUCE PIPING REQUIREMENTS	FLOWMETER; 34-SAMSS-010, SPECIALTY FLOWMETER FOR REDUCING PIPING REQUIREMENTS	
	MONITOR; GAS; COMBUSTIBLE	MONITOR GAS; COMBUSTIBLE,ANY RANGE, 34-SAMSS-514	
		MONITOR GAS; COMBUSTIBLE, ANY RANGE, 34-SAMSS-514	
		MONITOR GAS; HYDROGEN SULFIDE, ANY RANGE, 34-SAMSS-514  MONITOR GAS; COMBUSTIBLE, ANY RANGE, 34-SAMSS-514, OPEN PATH TYPE	
		GAUGE LEVEL; GLASS TYPE, 34-SAMSS-010, WITH BACKFLOW PREVENTER VALVE OR CHECK VALVE AS ASSEMBLY IF REQUIRED.	
	ANALYZER; NIR SPECTROMETER;	ANALYZER; NIR SPECTROMETER TYPE, ANY RANGE,	
6000002926	TRANSMITTER; MULTIVARIABLE;	TRANSMITTER; MULTIVARIABLE TYPE, ANY RANGE	
6000007215	FLOW METER: VENTURI TUBE	FLOWMETER; VENTURI TUBE AND NOZZLE TYPE, 34-SAMSS-010	
6000009881	Custody Meter, Multi-Path, Ultrasonic Liquid	FLOWMETER; CUSTODY TRANSFER LIQUID TYPE,CUSTODY TRANSFER LIQUID	
6000009890	CUSTODY PROVER, SMALL VOLUME, UNI PISTON	METER; UND PISTON (SMALL VOLUM) PROVER TYPE, 34-SAMSS-119, FORLIQUID CUSTODY TRANSFER	
6000009890	CUSTODY PROVER, SMALL VOLUME, UNI PISTON	METER; UND PISTON(SMALL VOLUM) PROVER TYPE, 34-SAMSS-119, FOR LIQUID CUSTODY TRANSFER	
	·	COMPUTER FLOW; CUSTODY PRESET CONTROLLER TYPE,34-SAMSS-847, FOR TRUCK LOADING AND UNLOADING SYSTEMS  SCALE WEIGH; CUSTODY TRANSFER TYPE, 34-SAMSS-180	
		SCALE WEIGH; CUSTODY TRANSFER TYPE, 34-SAMSS-180  ANALYZER; PHYSICAL PROPERTY TYPE, ANY RANGE, (EXAMPLE: BOILING POINT, FLASH POINT, POUR POINT, CFPP, RVP, COLOR, CLOUD POINT, FREEZE POINT, OCTANE, AND	
	Analyzer; Physical Property	VISCOSITY )	
	MPFM FOR GAS FIELD APPLICATION	FLOWMETER; MULTIPHASE FLOWMETER TYPE, 34-SAMSS-001, FOR GAS, FLOW RATE MEASUREMENT	
6000014614	CUSTODY TANK GAUGING SYSTEM, RADAR	GAUGE TANK LEVEL; RADAR CUSTODY TRANSFER TYPE, ANY RANGE,34-SAMSS-321,SAES-Y-301,RADAR TANK GAUGING SYSTEMS FOR CUSTODY TRANSFER	
6000014893	FIBER OPTIC SENSING PLDS	DETECTOR LEAK; FIBER OPTIC TYPE, FOR PIPELINE, SAES-Z-003, THE FIBER OPTIC CABLE SENSING METHOD ANALYSES THE HEAT/TEMP AND THE CONDUCTIVITY OF THE CABLI TO DETECT THE LEAK OCCURS. FOR PIPELINE LEAK DETECTION SYSTEM (PLDS) APPLICATIONS.	
6000009831	CUSTODY METER, TURBINE, LIQUID	FLOWMETER TURBINE; CUSTODY TRANSFER LIQUID TYPE ,ANY, 34-SAMSS-117	
6000009832	CUSTODY METER, POS DISPL , LIQUID	FLOWMETER POSITIVE DISPLACEMENT; CUSTODY TRANSFER LIQUID TYPE,ANY, 34-SAMSS-118	
6000009895	CUSTODY DENSITY METER, LIQUID	METER DENSITY; CUSTODY TRANSFER LIQUID TYPE, 34-SAMSS-510	
6000009898	CUSTODY CHROMATOGRAPH, GAS OR LIQUID	CHROMATOGRAPH PROCESS; FOR CUSTODY TRANSFER CHROMOTOGRAPHY, ANY DETECTOR, ANY CARRIER, 34-SAMSS-510	
6000009908	Custody Tank Gauge, Radar	GAUGE TANK LEVEL; ANY TYPE, ANY RANGE, 34-SAMSS-321, CUSTODY TANK RADAR GAUGE, CUSTODY TRANSFER TANK LEVEL GAUGING	
	H2S SCAVENGER, POWDER	H2S SCAVENGER-ZINC-FREE IRON GLUCONATE ADMIXTURE DRILLING MUD; POWDER FORM,IRON GLUCONATE, FOR SCAVENGES HYDROGEN SULFIDE FROM DRILLING FLUIDS, IRON GLUCONATE, 25 KG (55.1 LBS.) PAIL OR SEALED BAG, VALVE/SPOUT TYPE, COMPLETELY SEALED, MOISTURE AND WATERPROOF. THE CONSTRUCTION OF THE MULTI-WALLED PAPER BAG (CONTAINER) SHALL BE AS FOLLOWS: 1ST PLY 75 LB. MIN. NATURAL KRAFT PAPER (INTERIOR PLY) 2ND PLY 75 LB. MIN. NATURAL KRAFT PAPER 3RD PLY SEPARATE INNER BAG LINER, HIGH DENSITY ORIENTED AND CROSS-LAMINATED INNER POLYETHYLENE RESIN LINER (TUBULAR SHAPE) WITH A MINIMUM WALL THICKNESS OF 0.1 MM. 4TH PLY 80 LB. MIN. NATURAL KRAFT PAPER (EXTERIOR PLY). SHIPMENT OF PRODUCT SHALL CONFORM TO SAUDI ARAMCO EXPORT PACKING MANUAL, H2S SCAVENGER-ZINC-FREE IRON GLUCONATE: A HIGHLY WATER SOLUBLE GRANULAR POWDER OF IRON GLUCONATE WITH NO HAZARDOUS SUBSTANCES AND USED TO SCAVENGE HYDROGEN SULFIDE FROM WATER-BASED AND OIL-BASED DRILLING FLUIDS. CHEMICAL AND PHYSICAL SPECIFICATIONS: PURITY (IRON GLUCONATE): >90%WT. APPEARANCE: LIGHT YELLOW-GREEN GRANULAR POWDER PH (1% DI WATER SOLUTION):4-5.5 SOLUBILITY: 100% SOLUBLE IN WATER ONE LB./BBL. OF PRODUCT REMOVES APPROXIMATELY 150-220 MG/LITER SULFIDES BULK DENSITY: 650-850 KG/M3 @ 68°F (20°C). SAUDI ARAMCO RESERVES THE RIGHT TO COLLECT H2S SCAVENGER ZINC-FREE IRON GLUCONATE ADMIXTURE DRILLING MUD; POWDER FORM,IRON GLUCONATE, FOR SCAVENGES HYDROGEN SULFIDE FROM DRILLING FLUIDS,IRON GLUCONATE, SHALL BE AS FOLLOWS: 1ST PLY 75 LB. MIN. NATURAL KRAFT PAPER (INTERIOR PLY) 2ND PLY 75 LB. MIN. NATURAL KRAFT PAPER 3RD PLY SEPARATE INNER BAG LINER, HIGH DENSITY ORIENTED AND CROSS-LAMINATED INNER POLYETHYLENE RESIN LINER (TUBULAR SHAPE) WITH A MINIMUM WALL THICKNESS OF 0.1 MM. 4TH PLY 80 LB. MIN. NATURAL KRAFT PAPER (EXTERIOR PLY) SUD PLY 75 LB. MIN. NATURAL KRAFT PAPER ROPER (INTERIOR PLY) 2ND PLY 75 LB. MIN. NATURAL KRAFT PAPER ROPER (EXTERIOR PLY). SHIPMENT OF PRODUCT SHALL CONFORM TO SAUDI ARAMCO EXPORT PACKING MANUAL., H2S SCAVENGER-ZINC-FREE IRON GLUCONATE: A HIGHLY WATER SOLUBLE GRANULAR P	
	6000016594 6000017620 6000017620 6000017620 6000015923 6000016991 6000012401 6000014870 600002732 6000009909 600001092 600001582 6000002782 6000002782 6000002782 6000002782 6000002782 6000002782 6000002782 6000002782 6000002782 6000002782 6000002782 6000002782 6000002782 6000002782 6000002782 6000002782 6000002782 6000002782 6000002782 6000002782 6000002886 6000009906 6000009906 6000009900 6000014021 6000014614 6000014893 6000009831 6000009832 6000009898 6000009898 6000009898 6000009898 6000009898 6000009898 6000009898 6000009898 6000009898 6000009898	6000015902 UNIT; MOBILE SUBSTATION  6000016594 CAPACITOR BANK 6000017620 UNIT; PREFABRICATED SUBSTATION, Yes, Yes 600000903 SWITCH; DISCONNECT; HIGH VOLTAGE; 6000015923 BUS; ISOLATED PHASE BUS DUCT 6000016991 UNIT; MOBILE SUBSTATION; 69KV AND BELOW 6000017680 COATING, ELECTRICAL INSULATORS, HIGH VOL 6000012401 OHL COMPOSITE INSULATOR FOR T & D 6000000774 TRAY; CABLE, FIBERGLASS 60000014870 POLE LINE; POWER TRANSMISSION, 69 KV 6000002553 ANALYZER; CHLORINE; 6000009909 CUSTODY FLOW COMPUTER, LIQUID, PANEL-MNT 600001692 VALVE; CONTROL, CUSTODY DIGITAL FLOW CON 600001682 CONTROLLER; ELECTRONIC; COMPRESSOR 6000009999 CUSTODY FLOW COMPUTER, LIQUID, PANEL-MNT 6000002655 ANALYZER; BOTTOM SEDIMENT AND WATER; 600000277 FLOWMETER; ANNUBAR; PITOT TUBE; 6000002772 FLOWMETER; ANNUBAR; PITOT TUBE; 6000002782 MONITOR; GAS; COMBUSTIBLE 6000002782 MONITOR; GAS; COMBUSTIBLE 6000002782 MONITOR; GAS; COMBUSTIBLE 6000002783 MONITOR; GAS; COMBUSTIBLE 6000002784 MONITOR; GAS; COMBUSTIBLE 6000002785 MONITOR; GAS; COMBUSTIBLE 6000002786 MONITOR; GAS; COMBUSTIBLE; OPEN PATH TYP 6000002786 MONITOR; GAS; COMBUSTIBLE; OPEN PATH TYP 6000002787 MONITOR; GAS; COMBUSTIBLE; OPEN PATH TYP 6000002788 GAUGE; LEVEL; GLASS 6000002781 CUSTODY PROVER, SMALL VOLUME, UNI PISTON 6000009891 CUSTODY PROVER, SMALL VOLUME, UNI PISTON 6000009890 CUSTODY PROVER, SMALL VOLUME, UNI PISTON 6000009990 CUSTODY PROVER, SMALL VOLUME, UNI PISTON 6000009990 CUSTODY PROVER, SMALL VOLUME, UNI PISTON 6000009990 CUSTODY PROSET CONTROLLER, TRUCK LOADING 6000014614 CUSTODY TANK GAUGING SYSTEM, RADAR 6000014631 MPFM FOR GAS FIELD APPLICATION 6000009893 CUSTODY METER, TURBINE, LIQUID 6000009893 CUSTODY METER, TURBINE, LIQUID 6000009990 CUSTODY METER, TURBINE, LIQUID 6000009900 CUSTODY PROSET CONTROLLER, GAS, PANEL-MNTD 6000009900 CUSTODY FLOW COMPUTER, GAS, PANEL-MNTD	

Aramco Asia India Private Limited, 2A-801, 8th Floor, Two Horizon Center, DLF Phase-5, Sector 43, Gurugram-122002, Haryana, India.  Website: https://india.aramco.com   Email: aaisourciing@aramcoasia.com  2022 Material Sourcing List  Undated: July 2023			
Commodity	Material	Description	2022 Material Sourcing List Updated: July, 2023  Long Description
Chemicals	1000022136	WATER SOLUBLE CORROSION INHIBITOR	CORROSION INHIBITOR-MICROBIOSTAT ADDITIVE DRILLING FLUID; LIQUID FORM, CORROSION INHIBITOR AND BIOCIDE, FOR USED AS A PACKER FLUID CORROSION INHIBITOR, LIQUID AMINE WITH METHANOL MICROBIOSTAT, 55 GAL (208 LITER) DRUM SHIPMENT OF PRODUCT SHALL CONFORM TO SAUDI ARAMCO EXPORT PACKING ANUAL, CORROSION INHIBITOR-MICROBIOSTAT: A COMBINED LIQUID BIOCIDE AND CORROSION INHIBITOR, CATIONIC, WATER SOLUBLE, HETEROCYCLIC AMINE BLENDED WITH METHANOL MICROBIOSTAT TO CONTROL AEROBIC AND ANAEROBIC BACTERIA GROWTH. IT IS USED AS A PACKER FLUID CORROSION INHIBITOR TO CONTROL GENERAL CORROSION ATTACK ON CASING, TUBING AND DOWNHOLE TOOLS IN CONTACT WITH CLEAR AND VISCOSIFIED COMPLETION BRINES. CHEMICAL AND PHYSICAL SPECIFICATIONS: LIGHT (OR PALE) COLORED LIQUID WATER SOLUBLE SPECIFIC GRAVITY @ 68°F (20°C): 0.98 -1.07. SAUDI ARAMCO RESERVES THE RIGHT TO COLLECT REPRESENTATIVE PRODUCT SAMPLES AND CONDUCT LABORATORY TESTS TO ENSURE COMPLIANCE WITH THE MATERIAL DESCRIPTION AND SPECIFICATIONS. PRODUCT MANUFACTURER AND/OR SUPPLIER ARE REQUIRED TO SUBMIT LAB CERTIFICATE OF ANALYSIS (COA) AND CERTIFICATE OF ORIGIN (COO) FOR EVERY BATCH. LABEL:  PRODUCT NAME, BATCH NUMBER, PRODUCTION DATE, SAP NUMBER, EXPIRATION DATE, AND COUNTRY OF ORIGIN, MANUFACTURER NAME AND CONTACT INFORMATION. HAZCOM ACCORDING TO THE MATERIAL SAFETY DATA SHEET (MSDS). UOM REFERRED IN THIS MATERIAL IS NET VOLUME/WEIGHT.
Chemicals	1000022533	CALCIUM CHLORIDE (77-78%) 2200 lb/BAG	CALCIUM CHLORIDE (77-78%) 1000 KG/BIG BAG ADDITIVE DRILLING FLUID; DRY FLAKES, PELLETS, OR GRANULAR FORM, DRY FLAKES, PELLETS, OR GRANULAR, WATER-SOLUBLE, USED AS WEIGHTING AGENT TO FORMULATE SOLIDS-FREE COMPLETION BRINES AND TO PROVIDE THE DESIRED WATER PHASE SALINITY AND ACTIVITY IN INVERT EMULSION MUDS. IN ADDITION, IT IS USED AS AN ACCELERATOR IN OIL WELL CEMENT SLURRIES. CALCIUM CHLORIDE QUALITY IS MONITORED BY EXPEC ARC LABORATORIES. EXPEC CERTIFICATE OF ACCEPTANCE (EXPEC/COA) REFERRING TO THE RESPECTIVE BATCH NUMBER MUST BE ATTACHED TO EACH SHIPMENT DOCUMENTS ACCEPTED FOR FIELD APPLICATIONS., FOR USED AS WEIGHTING AGENT TO FORMULATE SOLIDS-FREE COMPLETION BRINES AND TO PROVIDE THE DESIRED WATER PHASE SALINITY AND ACTIVITY IN INVERT EMULSION MUDS. IN ADDITION, IT IS USED AS AN ACCELERATOR IN OIL WELL CEMENT SLURRIES, CALCIUM CHLORIDE 77-78%, 1000 KG (2204 LBS) MULTI- WALL MOISTURE-PROOF POLYETHYLENE LINED BAGS WITH LIFTING STRAPS, WITHOUT BOTTOM SPOUT. LIFTING STRAP, BAG IS DISPOSABLE, TOP CLOSURE WATERTIGHT, STACKABLE. MINIMUM TENSILE STRENGTH FACTOR S, FLEXURAL STRENGTH FOR NORMAL HANDLING AND OUTSIDE STORAGE. THE DISPOSABLE, TOP CLOSURE WATERTIGHT, STACKABLE. MINIMUM TENSILE STRENGTH FOR ACCEPTANCE OF DELIVERY TO SAUDI ARRAMCO. REFER TO SAP NUMBER: 1000840600 FOR # DISPOSABLE SUPER SACKS SPECIFICATIONS. SUPPLIERS ARE REQUIRED TO WEIGHT THE TRUCKS BEFORE AND AFTER LOADING. SHIPMENT OF PRODUCT SHALL CONFORM TO SAUDI ARRAMCO EXPORT PACKING MANUAL., ASTM D98-68/PRACTICE E29 / ASTM D345 - 02(2010) STANDARD TEST METHOD FOR CACL2 SAMPLING AND TESTING, CHEMICAL AND PHYSICAL SPECIFICATIONS APPEARANCE: DRY FREE FLOWING WHITE FLAKES OR PELLETS -PURITY: CACL2 77% WT. MINIMUM PASS THROUGH 7/16 IN SCREEN: 100%WT. NO PARTICLES GREATER THAN 11MM IN ANY DIMENSION. ALKALI CHLORIDES AS NACL: 7% WT. MAXIMUM AND MGCL2: 1% WT. MAXIMUM HEAVY METALS AS PB: 0.005% WT. MAXIMUM SULFATE AS CASO4: 0.05% WT. MAXIMUM. FE: 15 PPM MAXIMUM WATER INSOLUBLE: 0.209 WT. MAXIMUM HEAVY METALS AS PB: 0.005W WT. MAXIMUM SULFATE AS CASO4:
Chemicals	1000022538	CALCIUM CHLORIDE (94-98%) 2200 lb/BAG	CALCIUM CHLORIDE (94-98%) 1000 KG/BIG BAG ADDITIVE DRILLING FLUID; DRY FLAKES, PELLETS, OR GRANULAR FORM, DRY FLAKES, PELLETS, OR GRANULAR, WATER-SOLUBLE USED AS WEIGHTING AGENT FOR FORMULATING SOLIDS-FREE COMPLETION BRINES AND TO PROVIDE THE DESIRED WATER PHASE SALINITY AND ACTIVITY IN INVERT EMULSION MUDS IN ADDITION, IT IS USED AS AN ACCELERATOR IN OIL WELL CEMENT SLURRIES. CALCIUM CHLORIDE QUALITY IS MONITORED BY EXPEC ARC LABORATORIES. EXPEC CERTEFICATE OF A CCEPTANCE (EXPEC/COA) REFERRING TO THE RESPECTIVE ATO HUMBER RMUST BE ATTACHED TO EACH SHIPMENT DOCUMENTS ACCEPTED FOR FIELD APPLICATIONS., FOR USED AS WEIGHTING AGENT FOR FORMULATING SOLIDS-FREE COMPLETION BRINES AND TO PROVIDE THE DESIRED WATER PHASE SALINITY AND ACTIVITY IN INVERT EMULSION MUDS IN ADDITION, IT IS USED AS AN ACCELERATOR IN OIL WELL CEMENT SLURRIES, CALCIUM CHLORIDE 94-98%, 1000 KG (2/204 LBS.) MULTI-WALL MOISTURE-PROOP POLYETHYLENE UINED BAGS WITH LIFTING STRAPS, WITHOUT BOTTOM SPOUT. LIFTING STRAP BAG IS DISPOSABLE, TOP CLOSURE WATERTIGHT, STACKABLE. MINIMUM TENSILE STRENGTH FACTOR 5, FLEXURAL STRENGTH FOR NORMAL HANDLING & OUTSIDE STORAGE. THE DISPOSABLE SUPER SACKS SHOULD HAVE AT LEAST 75% OF THEIR SHELF LIFE REMAINING (THE PERIOD FROM DATE OF MANUFACTURING TO THE WARRANTED EXPIRATION DATE) WHEN SHIPPED OR RECEIVED AT DESIGNATED PLACE OF DELIVERY TO SAUDI ARAMCO. REFER TO SAP NUMBER: 1000840600 FOR # DISPOSABLE SUPER SACKS SPECIFICATIONS. SUPPLIERS ARE REQUIRED TO WEIGHT THE TRUCKS BEFORE AND AFTER LOADING AND SUBMIT TO MATERIAL SUPPLY AN OFFICIAL TICKET PRINT DATA STATING: DATE AND TIME, COMPANY AND AND ADDRESS, TRUCK IDENTITY NUMBER, MATERIAL NAME, TRUCK WEIGHT BEFORE AND AFTER LOADING. SHIPMENT OF PRODUCT SHALL CONFORM TO SAUDI ARAMCO. EXPORT PACKING MANUAL, ASTM D98-68/PRACTICE E29 / ASTM D345 - 02 (2010) STANDARD TEST METHOD FOR CACL2 SAMPLING AND TESTING, CHEMICAL AND PHYSICALSPECIPLOTIONS APPEARANCE: DRY FREE FLOWING WHITE FLAKES OR PELLETS - PURITY: CACL2 94 WWT. MINIMUM PASS THROUGH A MESH SCREEN: 10008WT. NO SAUDI ARAMCO
Chemicals	1001129231	Anhydrous Calcium Bromide Dry	CALCIUM BROMIDE(CABR2)DRY 95% ADDITIVE DRILLING FLUID; WHITE FREE FLOWING POWDER, CRYSTALLINE OR GRANULAR FORM, CALCIUM BROMIDE (CABR2) DRY 95%, FOR WHITE FREE FLOWING POWDER, CRYSTALLINE OR GRANULAR WITH NO LUMPS, CALCIUM BROMIDE SALT USED FOR PREPARING COMPLETION FLUIDS AS A SINGLE CABR2 SALT SOLUTION WITH MINIMUM DENSITY OF 1.70 GM/CC, AND CAN BE BLENDED WITH ZINC BROMIDE AND CALCIUM CHLORIDE SOLUT, CALCIUM BROMIDE (CABR2) DRY 95%, 25 KG (55.1 LB) BAG (NET WEIGHT), WHITE FREE FLOWING POWDER, CRYSTALLINE OR GRANULAR WITH NO LUMPS, CALCIUM BROMIDE SALT USED FOR PREPARING COMPLETION FLUIDS AS A SINGLE CABR2 SALT SOLUTION WITH MINIMUM DENSITY OF 1.70 GM/CC, AND CAN BE BLENDED WITH ZINC BROMIDE AND CALCIUM CHLORIDE SOLUTIONS TO FORMULATE, SOLIDS-FREE NON-DAMAGING HIGH-DENSITY BRINE BLENDS WITH DENSITIES UP TO 143 PCF (19.1 LB/GAL). APPEARANCE: WHITE FREE FLOWING POWDER CRYSTALLINE OR GRANULAR, NO LUMPS SATURATED BRINDE SOLUTION: CLEAR COLORLESS PURITY AS CABR2, PERCENT 95 MINIMUM SG AT 77 DEG F (25 DEG C): 3.2 - 3.4 SOLUBILITY IN WATER AT 68 PCG F (20 DEG C), WT PERCENT 58 MINIMUM IRON, PPM: 10 MAXIMUM CHLORIDE AS CACL2, WT PERCENT 1.5 MAXIMUM SULFATE, PPM: 200 MAXIMUM HEAVY METALS, PPM: PB: 5 MAXIMUM HG: 1 MAXIMUM AS: 5 MAXIMUM CD: 5 MAXIMUM SAUDI ARAMCO RESERVES THE RIGHT TO COLLECT REPRESENTATIVE PRODUCT SAMPLES AND CONDUCT LABORATORY TESTS TO ENSURE COMPLIANCE WITH THE MATERIAL DESCRIPTION AND SPECIFICATIONS. PRODUCT MANUFACTURER AND OR SUPPLIER ARE REQUIRED TO SUBMIT LAB CERTIFICATE OF ANALYSIS FOR EVERY BATCH (COA) AND CERTIFICATE OF ORIGIN (COO). PRODUCT MANUFACTURER AND/OR SUPPLIER ARE REQUIRED TO SUBMIT LAB CERTIFICATE OF ANALYSIS (COA) AND CERTIFICATE OF ORIGIN (COO). PRODUCT MANUFACTURER AND/OR SUPPLIER ARE REQUIRED TO SUBMIT LAB CERTIFICATE OF ANALYSIS (COA) AND CERTIFICATE OF ORIGIN (COO). PRODUCT MANUFACTURER AND CONTACT INFORMATION. HAZCOM ACCORDING TO THE MATERIAL SAFETY DATA SHEET MSDS.
Chemicals	1001130337	Radiagreen EME Salt	EXTREME LUBRICANT FOR UNDERBALANCE COILED TUBING DRILLING ADDITIVE DRILLING FLUID; YELLOW TO DARK AMBER LIQUID FORM,BLEND OF FATTY AMIDES ACID AND ESTERS, OR POLYOL ESTER OF FATTY ACIDS,FOR COMBUSTIBLE AMBER LIQUID BLEND OF POLYMERIZED FATTY AMIDE, ACID AND ESTER, OR POLYOL ESTER OF FATTY ACID USED IN SOLIDS-FREE DRILL-IN FLUIDS OR MONOVALENT BRINES TO REDUCE TORQUE AND DRAG IN HIGHLY TORTUOUS OR EXTENDED REACH WELLS, INCLUDING COILED TUBING,BLEND OF FATTY AMIDES ACID AND ESTERS, OR POLYOL ESTER OF FATTY ACIDS,55 GAL (208 LITER) DRUM (NET VOLUME),APPEARANCE: YELLOW TO DARK AMBER. SWEET AND MILD ODOR SOLUBILITY IN WATER: INSOLBLE IN WATER SPECIFIC GRAVITY AT THE RANGE BETWEEN 68F (20C): 0.95 - 1.05 FLASH POINT (PMCC): GREATER THAN 212F (100C) IT WILL NOT GREASE OR PHASE OUT. SAUDI ARAMCO RESERVES THE RIGHT TO COLLECT REPRESENTATIVE PRODUCT SAMPLES AND CONDUCT LABORATORY TESTS TO ENSURE COMPLIANCE WITH THE MATERIAL DESCRIPTION AND SPECIFICATIONS. PRODUCT MANUFACTURER AND/OR SUPPLIER ARE REQUIRED TO SUBMIT LAB CERTIFICATE OF ANALYSIS (COA) AND CERTIFICATE OF ORIGIN (COO) FOR EVERY BATCH. UOM REFERRED IN THIS MATERIAL IS NET VOLUME/WEIGHT. LABEL: PRODUCT NAME, BATCH NUMBER, PRODUCTION DATE, SAP NUMBER, EXPIRATION DATE, AND COUNTRY OF ORIGIN, MANUFACTURER NAME AND CONTACT
Chemicals	1000823699	THINNER OBM	THINNER/DISPERSANT-OBM CONDITIONER ADDITIVE DRILLING FLUID; LIQUID FORM, SULFONATE BLEND WITH FATTY ACID, FOR USED TO LOWER REHEOLOGICAL PROPERTIES OF OIL BASE FLUIDS., POLYOLEFIN/ORGANIC SULFONATE BLEND WITH FATTY ACID, 55 GALLON (208 LITER) DRUM. SHIPMENT OF PRODUCTS MUST CONFORM TO SAUDI ARAMCO EXPORT PACKING MANUAL., THINNER/DISPERSANT-OIL-BASE MUD CONDITIONER: LIQUID POLYOLEFIN/ORGANIC SULFONATE BLEND WITH FATTY ACID DERIVATIVES USED TO LOWER RHEOLOGICAL PROPERTIES FOR OIL BASE FLUIDS. OTHER ASSOCIATED ELEMENTS MUST NOT BE HARMFUL TO PERSONNEL AND/OR ADVERSELY AFFECT FLUID PROPERTIES. CHEMICAL AND PHYSICAL SPECIFICATIONS: APPEARANCE: DARK AMBER LIQUID SOLUBILITY: INSOLUBLE IN WATER SPECIFIC GRAVITY: 0.90 - 0.96 FLASH POINT (PMCC): > 212°F (100°C) SAUDI ARAMCO RESERVES THE RIGHT TO COLLECT REPRESENTATIVE PRODUCT SAMPLES AND CONDUCT LABORATORY TESTS TO ENSURE COMPLIANCE WITH THE MATERIAL DESCRIPTION AND SPECIFICATIONS. PRODUCT MANUFACTURER AND OR SUPPLIER ARE REQUIRED TO SUBMIT LAB CERTIFICATE OF ANALYSIS FOR EVERY BATCH (COA) AND CERTIFICATE OF ORIGIN (COO). LABEL: PRODUCT NAME, BATCH NUMBER, PRODUCTION DATE, EXPIRATION DATE, SAP NUMBER AND COUNTRY OF ORIGIN, MANUFACTURER NAME AND CONTACT INFORMATION. HAZCOM ACCORDING TO THE MATERIAL SAFETY DATA SHEET (MSDS).UOM REFERRED IN THIS MATERIAL IS NET VOLUME/WEIGHT
Chemicals	1000021672	HYDROXY ETHYL CELLULOSE (HEC)	HYDROXY ETHYL CELLULOSE (HEC) ADDITIVE DRILLING FLUID; DRY FREE FLOWING WHITE POWDER FORM, HYDROXY ETHYL CELLULOSE (HEC), FOR MULTI-PURPOSE VISCOSIFYING POLYMER FOR FRESHWATER, SEA WATER SALT SATURATED WATER AND COMPLEX BRINE SYSTEMS., HYDROXY ETHYL CELLULOSE (HEC), 50 LBS. (22.7 KG). MULTI-WALLED PAPER BAG, VALVE/SPOUT TYPE, COMPLETELY SEALED, MOISTURE AND WATER PROOF. THE CONSTRUCTION OF THE MULTI-WALLED PAPER BAG SHALL BE AS FOLLOWS: 1ST PLY (INTERIOR PLY) 10# COATING 0.000285 MICRON ALUMINUM SHEET 6# PE COATING 50 LB NATURAL KRAFT PAPER THE ALUMINUM SHEET IS COATED ON ONE SIDE WITH 10# PE THE 10# IS NEXT TO THE PRODUCT. THE COATED ALUMINUM SHEET LAMINATED TO THE 50 LB KRAFT PAPER. 2ND PLY 50 LB NATURAL KRAFT PAPER. 3RD PLY 50 LB NATURAL KRAFT PAPER. 4TH PLY 50 LB BLEACH WHITE NATURAL KRAFT PAPER (EXTERIOR PLY). THE BLEACHED PAPER IS "FULLY BLEACHED WHITE". SHIPMENT OF PRODUCT SHALL CONFORM TO SAUDI ARAMCO EXPORT PACKING MANUAL., HEC-HYDROXY ETHYL CELLULOSE: IS A NON-IONIC POLYMER, DRY FREE FLOWING WHITE POWDER DISPERSES EASILY AND RAPIDLY DISSOLVES IN FRESH WATER, SALT SATURATED BRINE AND COMPLEX DIVALENT BRINE BLENDS TO DEVELOP VISCOSITY RELATED CHARACTERISTICS FOR DRILLING AND COMPLETION FLUIDS THAT IMPART MINIMUM FORMATION DAMAGE. THE HEC SHOULD BE EASILY BROKEN WITH ACID, ENZYMES, OR OXIDIZING AGENTS TO MAXIMIZE THE POTENTIAL FOR HYDROCARBON RECOVERY AND SHOULD BE STABLE AT TEMPERATURES UP TO 250°F (121°C). CHEMICAL AND PHYSICAL SPECIFICATIONS: APPERARNCE: WHITE TO CREAM-COLORED HYDROXYETHYLCELLULOSE (HEC), SHALL NOT CONTAIN ANY STARCH, GUAR OR ANY OTHER POLYMERS OR THEIR DERIVATIVES. MOISTURE: 8%WT. MAXIMUM SPECIFIC GRAVITY, 1.38-1.40 PARTICLE SIZE: PASS THROUGH U.S. 20 MESH SCREEN (840 MICRON): 100% 1% WT. SOLUTION IN DEIONIZED WATER BROOKFIELD SPINDLE #4, 30 RPM. (ASTM D 2196-91): VISCOSITY AT 77°F (25°C): 4,400-6,500 PH @ 77°F (25°C): 6-7 SAUDI ARAMCO RESERVES THE RIGHT TO COLLECT REPRESENTATIVE PRODUCT SAMPLES AND CONDUCT LABORATORY TESTS TO ENSURE COMPLIANCE WITH THE MATERIAL DESCRIPTION AND SPECI

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Commodity	Material	Description	2022 Material Sourcing List Long Description	Updated: July, 2023
Chemicals	6000016483	Flat Rheology Oil Based Systems (FROBS).	ADMIXTURE DRILLING MUD; ANY, DRILLING FLUIDS SYSTEM OR PRODUCT USED AS DRILL THE RESERVOIR OR NON-RESERVOIR HOLE SECTIONS. EXAMPLES NON-CONV RESERVOIR DRILL-IN FLUID(RDF), FILTER CAKE REMOVAL SYSTEM, HIGH PERFORMA CLEANING SYSTEM	WATER BASED MUD(WBM) OR OIL BASED MUD (OBM) OR FOR SPECIAL APPLICATIONTO FENTIONAL LCM, HIGH OVER BALANCE MUD SYSTEM, SHALE INHIBITION MUD SYSTEM, ANCE WATER BASE MUD (HPWBM), HIGH PERFORMANCE OIL BASE MUD (HPOBM), SPACER
Chemicals	1000814796	ACETIC ACID > 96%	CALCIUM CARBONATE PARTICLES AFTER USING OBM.,LIQUID CARBOXYLIC ACID WI SPECIFICATIONS: LEAK PREVENTION MECHANISM: VALVE CLOSED WITH SCREW CAI CONTAINER SHOULD BE HIGH MOLECULAR WEIGHT, HIGH DENSITY POLYETHYLENE DISCHARGE OF CONTENTS.OUTER CONTAINER SHOULD BE RIGID, WELDED GALVAN PLATE.MOLDED BOTTOM SHELL SHOULD BE PRESSED GALVANIZED STEEL BASE SHA SHOULD BE STEEL AND HAVE 4 WAYS ENTRIES. SHIPMENT OF PRODUCTS MUST CO	P PE-DISC AND FLAT GASKET, VALVE HANLDE SECURED WITH A LOCKING SCREW. INNER E (HMWHDPE) W/EXTRUSION BLOW MOLDED, SPECIALLY SHAPED TO ENSURE COMPLETE NIZED TUBULAR STEEL GRID WITH A LARGE PERMANENTLY FIXED IDENTIFICATION APED TO SUPPORT THE INNER CONTAINER AND ASSIST TOTAL DRAINAGE. PALLETS INFORM TO SAUDI ARAMCO EXPORT PACKING ANUAL.,MICRO-WASH ACETIC ACID-BAKER ED FOR ACIDIZING SOLUBLE CALCIUM CARBONATE PARTICLES, AFTER USING OBM, IN
Chemicals	1000021930	XANTHAN GUM (POWDER)	AND SUSPENSION AGENT IN FRESH WATER, SEA WATER, AND SATURATED BRINE-B POLYMER,25 KG (55.1 LBS.) MULTI-WALL PAPER BAG, VALVE/SPOUT TYPE COMPLE' WALLED PAPER BAG SHALL BE AS FOLLOWS: 1ST PLY 50 LB. NATURAL KRAFT PAPER LINER, HIGH DENSITY ORIENTED AND CROSS-LAMINATED INNER POLY-ETHYLENE RI	R (INTERIOR PLY) 2ND PLY 50 LB. NATURAL KRAFT PAPER 3RD PLY SEPARATE INNER BAG ESIN LINER (TUBULAR SHAPE) WITH A MINIMUM WALL THICKNESS OF 0.1 MM. 4TH PLY 50 TH (EXTERIOR PLY) SHIPMENT OF PRODUCT SHALL CONFORM TO SAUDI ARAMCO EXPORT 1, AUGUST2014,XANTHAN GUM BIO-POLYMER: DRILLING GRADE PURE, DRY, FREE BRINE. THE BIO-POLYMER PRODUCED BY A DISTINCT FERMENTATION PROCESS OF
Chemicals	1000021557	CALCIUM BROMIDE (SOL 53% WT MINIMUM)	USED N COMPLETION FLUIDS AND CAN BE BLENDED WITH ZINC/CALCIUM ROMIDE DENSITIES UP 143 PCF (19.1 LB/GAL), CALCIUM BROMIDE, 55 AL (208 LITER) 340 KG ARAMCO EXPORT PACKING ANUAL., REFER TO API 131 FIFTH EDITION, OCTOBER 20: COMPLETION FLUIDS AS A SINGLE CABR2 SALT SOLUTION WITH INIMUM DENSITY COMPLETIONS TO FORMULATE, SOLIDS-FREE ON-DAMAGING HIGH DENSITY BRINE BLISPECIFICATIONS: CALCIUM ROMIDE (CABR2) SOLUTION 52% WT. MINIMUM COLOFURBIDITY: 6 NTU MAXIMUM SULPHATE CONTENT: 100 PPM (0.01% WT.) AXIMUM MAXIMUM DENSITY: 1.70 GM/CC (14.2 LB/GAL /106.2 PCF) AT 70°F (20.1°C) MININ FLUID; SINGLE SALT (CABR2), SOLIDS-FREE BRINE ORM, CALCIUM BROMIDE (CABR2) WITH ZINC/CALCIUM ROMIDE AND CALCIUM CHLORIDE SOLUTIONS TO FORMULAT AL (208 LITER) 340 KG POLYPROPYLENE-LINED STEEL DRUMS SHIPMENT F PRODUCEDITION, OCTOBER 2014, CALCIUM ROMIDE SOLUTION (CABR2): PURE, SOLIDS-FREE WITH INIMUM DENSITY OF 1.70 GM/CC, AND CAN BE BLENDED WITH ZINC ROMIDIHIGH DENSITY BRINE BLENDS WITH DENSITIES UP TO 143 CF (19.1 LB/GAL). CHEMIC MINIMUM COLORLESS, CLEAR LIQUID ITH NO ODOR CHLORIDE CONTENT: 1000 PPI (0.01% WT.) MAXIMUM IRON CONTENT: 5 PPM MAXIMUM TOTAL HEAVY METALS PCF) AT 70°F (20.1°C) MINIMUM PHOF: 5 PPM SUMXIMUM TOTAL HEAVY METALS PCF) AT 70°F (20.1°C) MINIMUM PHOF: 5 PPM SUMXIMUM TOTAL HEAVY METALS PCF) AT 70°F (20.1°C) MINIMUM PHOF: 5 PPM CASTES THE RIGHT TO COLLECT COMPLIANCE WITH THE MATERIAL DESCRIPTION AND SPECIFICATIONS. PRODUCT I ANALYSIS FOR EVERY BATCH (COA) AND CERTIFICATE OF ORIGIN (COO). LABEL: PROCEED TO THE PROPER SOLID ARAMCO RESERVES THE RIGHT TO COLLECT COMPLIANCE WITH THE MATERIAL DESCRIPTION AND SPECIFICATIONS. PRODUCT I ANALYSIS FOR EVERY BATCH (COA) AND CERTIFICATE OF ORIGIN (COO). LABEL: PROCEED TO THE PROPER SOLID ARAMCO RESERVES THE RIGHT TO CALLECT COMPLIANCE WITH THE MATERIAL DESCRIPTION AND SPECIFICATIONS. PRODUCT I ANALYSIS FOR EVERY BATCH (COA) AND CERTIFICATE OF ORIGIN (COO). LABEL: PROCEED TO THE PROPER SOLID ARAMCO RESERVES THE RIGHT TO CALLECT COMPLIANCE WITH THE MATERIAL DESCRIPTION AND SPECIFICATIONS.	POLYPROPYLENE-LINED STEEL DRUMS SHIPMENT F PRODUCTS MUST CONFORM TO SAUDI 14,CALCIUM ROMIDE SOLUTION (CABR2): PURE, SOLIDS-FREE BRINE USED FOR REPARING OF 1.70 GM/CC, AND CAN BE BLENDED WITH ZINC ROMIDE AND CALCIUM CHLORIDE
Chemicals	1000845612	MANGANESE TETRAOXIDE - BAG	(MN304) WITH AVERAGE SPHERICAL PARTICLE DIAMETER 0.5 – 2 MICRONS. IT IS L REACH HIGH DENSITY DRILLING FLUIDS WITH LOW EQUIVALENT CIRCULATING DEN ASSOCIATED ELEMENTS MUST NOT BE HARMFUL TO PERSONNEL AND/OR PROPER LUIDS, MANGANESE TETRAOXIDE, 1000 KG (2204 LBS.) MULTI -WALL MOISTURE-PRE LIFTING STRAP BAG IS DISPOSABLE, TOP CLOSURE WATERTIGHT, STACKABLE. MINNI OUTSIDE STORAGE. THE DISPOSABLE SUPER SACKS SHOULD HAVE AT LEAST 75% O WARRANTED EXPIRATION DATE) WHEN SHIPPED OR RECEIVED AT DESIGNATED PLUDISPOSABLE SUPER SACKS SPECIFICATIONS. SUPPLIERS ARE REQUIRED TO WEIGHT OFFICIAL TICKET PRINT DATA STATING: DATE AND TIME COMPANY AND ADDRESS, ADDITIVE DRILLING FLUID; FINE REDDISH BROWN POWDER FORM, FINE REDDISH BROWN POWDER FORM, FINE REDDISH BRATICLE DIAMETER 0.5 – 2 MICRONS. IT IS USED AS WEIGHT MATERIAL IN DRILLIN WITH LOW EQUIVALENT CIRCULATING DENSTY (ECD), MINIMAL SAG AND CAUSE LE HARMFUL TO PERSONNEL AND/OR PROPERTIES, FOR USED AS WEIGHT MATERIAL II (2204 LBS.) MULTI -WALL MOISTURE-PROOF POLYETHYLENE LINED BAGS WITH LIFT CLOSURE WATERTIGHT, STACKABLE. MINIMUM TENSILE STRENGTH FACTOR S, FLES SACKS SHOULD HAVE AT LEAST 75% OF THEIR SHELF LIFE REMAINING (THE PERIOD SHIPPED OR RECEIVED AT DESIGNATED PLACE OF DELIVERY TO SAUDI ARAMCO. RE SUPPLIERS ARE REQUIRED TO WEIGHT THE TRUCKS BEFORE AND AFTER LOADING A TIME COMPANY AND ADDRESS, TRUCK IDENTITY NUMBER, MATERIAL NAME, TRUC SAUDI ARAMCO EXPORT PACKING MANUAL, APPEARANCE: REDDISH-BROWN POW POWDER, ODORLESS. MN304: 85%WT MINIMUM FE CONTENT: 4.5%WT MAXIMUI SOLUBILITY IN WATER: INSOLUBLE, PH (5G IN 50 ML DI WATER): 7 – 10.5, SPECIFIC (KG/M3), SURFACE AREA: 1 – 5 M2/G.MICROMAX IS ONLY SLIGHTLY SOLUBLE IN OR HYDROCHLORIC ACID (HCL), BECAUSE THE REACTION PRODUCES CHLORINE GAS.SA AND CONDUCT LABORATORY TESTS TO ENSURE COMPLIANCE WITH THE MATERIAL REQUIRED TO SUBMIT LAB CERTIFICATE OF ANALYSIS (COA) AND CERTIFICATE OF CO	OOF POLYETHYLENE LINED BAGS WITH LIFTING STRAPS, WITHOUT BOTTOM SPOUT.  MUM TENSILE STRENGTH FACTOR 5, FLEXURAL STRENGTH FOR NORMAL HANDLING & IF THEIR SHELF LIFE REMAINING (THE PERIOD FROM DATE OF MANUFACTURING TO THE ACE OF DELIVERY TO SAUDI ARAMCO. REFER TO SAP NUMBER: 1000840600 FOR THE TRUCKS BEFORE AND AFTER LOADING AND SUBMIT TO MATERIAL SUPPLY AN TRUCK IDENTITY NUMBER, MATERIAL NAME, MICROMAX – MANGANESE TETROXIDE ROWN POWDER OF MANGANESE TETROXIDE (MN3O4) WITH AVERAGE SPHERICAL IG, COMPLETION AND CEMENTING FLUIDS TO REACH HIGH DENSITY DRILLING FLUIDS ESS FORMATION DAMAGE. THE CHEMICAL AND ITS ASSOCIATED ELEMENTS MUST NOT BE N DRILLING, COMPLETION AND CEMENTING FLUIDS, MANGANESE TETROXIDE, 1000 KG FING STRAPS, WITHOUT BOTTOM SPOUT. LIFTING STRAP BAG IS DISPOSABLE, TOP XURAL STRENGTH FOR NORMAL HANDLING & OUTSIDE STORAGE. THE DISPOSABLE SUPER FROM DATE OF MANUFACTURING TO THE WARRANTED EXPIRATION DATE) WHEN EFER TO SAP NUMBER: 1000840600 FOR DISPOSABLE SUPER SACKS SPECIFICATIONS. AND SUBMIT TO MATERIAL SUPPLY AN OFFICIAL TICKET PRINT DATA STATING: DATE AND CK WEIGHT BEFORE AND AFTER LOADING. SHIPMENT OF PRODUCT SHALL CONFORM TO I/O,CHEMICAL AND PHYSICAL SPECIFICATIONS APPEREANCE: FINE REDDISH BROWN M PARTICLE DIAMETER: D90 LESS THAN 5 MICRONS AND D50 0.5 – 2 MICRONS, GRAVITY @ 68 DEG F (20 DEG C): 4.8, MINIMUM BULK DENSITY: 84 LB/FT3 (950-1050
Chemicals	1000022135	AMINE CORROSION INHIBITOR	OR BRINE PACKER FLUIDS CORROSION,LIQUID AMINES AND AMIDE,55 GAL (208 LI' PACKING MANUAL.,HIGH TEMPERATURE CORROSI INHIBITOR: A BLEND OF AMINE: ALLEVIATE CORROSION I FRESH, BRACKISH OR BRINE PACKER FLUID AT HIGH WELL ON IRON AN STEEL SURFACES AND DEVELOPS A PASSIVATION LAYER THAT PROVID ENVIRONMENT ENCOUNTERED OIL AND DEVELOPS A PASSIVATION LAYER THAT PROVID ENVIRONMENT ENCOUNTERED OIL AND GAS WELLS. CHEMICAL AND PHYSICAL SPE © 59°F (15°C): 0 - 0.9 FLASH POINT (PMCC) >136.4°F (58°C). SAUDI ARAMCO RESER LABORATORY TESTS TO ENSURE COMPLIANCE WIT THE MATERIAL DESCRIPTION AN SUBMIT LAB CERTIFICATE OF ANALYSIS (COA) AND CERTIFICATE OF ORIGIN (COO) F NUMBER, EXPIRATION DATE, AND COUNTRY OF ORIGIN, MANUFACTURER NAME A	S AND IMIDAZOLINE AMIDE, SOLUBLE IN OIL AN DISPERSIBLE IN WATER USE TO LBORE TEMPERATURES UP TO 400°F.IMIDAZOLINE ADSORPTION FORMS A CHEMICAL FILM DES CORROSION PROTECTION IN SOUR H2S, SWEET CO2 AND OXYGEN CORROSION ECIFICATIONS: DARK AMB LIQUID OIL SOLUBLE AND WATER DISPERSIBLE SPECIF GRAVITY
Chemicals	1001071292	HIGH TEMPERATURE CORROSION INHIBITOR	DESIGNED AS NONEMULSIFIER ADDITIVE FOR ACIDIZING LIMESTONE, DOLOMITE A DISPERSING NON-EMULSIFIER SURFACTANT DESIGNED FOR APPLICATIONS IN CEME USED AS TREATEMENT OF THE WELLBORE BEFORE DISPLACEMENT FROM OIL BASE VOLUME OF 5 GAL, APPEARANCE: YELLOW LIQUI SPECIFIC GRAVITY AT 68 DEG. F. (2C GAL PAIL(18.9 LITERS), NET PRODUCT VOLUME OF 5 GAL. SAUDI ARAMCO RESERV LABORATORY TESTS TO ENSU COMPLIANCE WITH THE MATERIAL DESCRIPTION AN SUBMIT LAB CERTIFICATE O ANALYSIS FOR EVERY BATCH (COA) AND CERTIFICATE C SUBMIT LAB CERTIFICATE O ANALYSIS (COA) AND CERTIFICATE OF ORIGIN (COO) FOR PRODUCT NAME, BATCH NUMBER, PRODUCTION DATE, SAP NUMBER, EXPIRATION	D SPECIFICATIONS. PRODUCT MANUFACTURER AND OR SUPPLIER ARE REQUIRED TO DF ORIGIN (COO). PRODUCT MANUFACTURER AND/OR SUPPLIER ARE REQUIRED TO
Chemicals	1001133608	Aluminum Seatrate or silicon based deformer	SIGNIFICANT EFFECT ON FLUID RHEOLOGY OR MUD DENSITY,,SILICONE BASED,5 GAMILKY WHITE LIQUID, SPECIFIC GRAVITY 0.95-1.1, SILICONE CONTE (PERCENT): 20 N 100 DEG.C (212 DEG.F), VISCOSITY AT 25 DEG.C (CPS): 1000-3500, PH: 7-10. SAUDI. CONDUCT LABORATORY TESTS TO ENSURE COMPLIANCE WIT THE MATERIAL DESCI REQUIRED TO SUBMIT LAB CERTIFICAT OF ANALYSIS FOR EVERY BATCH (COA) AND VOLUME/WEIGHT. LABEL: PRODUCT NAME, BATCH NUMBER, PRODUCTION DATE, CONTACT INFORMATION. HAZCOM ACCORDING TO THE MATERIAL SAFETY DATA S AND DURING MATERIAL DELIVERY)	ASE AND CLEAR BRINE FLUIDS. IT HELPS TO CONTROL OR PREVENT FOAMING. IT HAS NO AL PAIL (NET VOLUME), PHYSICAL AND CHEMICALS SPECS: APPEARANCE: HOMOGENEOUS MINIMUM, ODOR: MILD, SOLUBILITY I WATER: DISPERSIBLE, FLAS POINT: GREATER THAN ARAMCO RESERVES THE RIGHT TO COLLECT REPRESENTATIVE PRODUCT SAMPLES AND RIPTION AND SPECIFICATIONS. PRODUCT MANUFACTURER AND OR SUPPLIER ARE CERTIFICATE OF ORIGIN (COO). UOM REFERRED IN THIS MATERIAL IS NET SAP NUMBER, EXPIRATION DATE, AND COUNTRY OF ORIGIN, MANUFACTURER NAM AND SHE MSDS. (AS APPLICABLE, SAFETY DATA SHEET SHOULD BE SUBMITTED WITH PO OFFER
Chemicals	6000016483	MUD SYSTEM	DRILL THE RESERVOIR OR NON-RESERVOIR HOLE SECTIONS. EXAMPLES NON-CONV	WATER BASED MUD(WBM) OR OIL BASED MUD (OBM) OR FOR SPECIAL APPLICATIONTO IENTIONAL LCM, HIGH OVER BALANCE MUD SYSTEM , SHALE INHIBITION MUD SYSTEM , NNCE WATER BASE MUD (HPWBM), HIGH PERFORMANCE OIL BASE MUD (HPOBM),SPACER

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			2022 Material Sourcing List Updated: July, 2023
Commodity	Material	Description	Long Description  MICRO-WASH FORMIC ACID-BAKER HUGHES ADDITIVE DRILLING FLUID; CLEAR, COLORLESS LIQUID FORM, FORMIC ACID ADDITIVE, FOR USED FOR FORMULATING MICRO-WASH, FORMIC ACID >90%, 55 GAL. (208 LITER) DRUM SHIPMENT OF PRODUCTS MUST CONFORM TO SAUDI ARAMCO EXPORT PACKING MANUAL, MICRO-WASH FORMIC
Chemicals	1000811877	FORMIC ACID >90%	ACID-BAKER HUGHES: CLEAR LIQUID FORMIC ACID ADDITIVE FOR FORMULATING MICRO-WASH. [BAKER HUGHE MICRO-WASH ACID SYSTEM CONSISTS OF: PRIME-743 (SAP #1000811425), PRIME-760 (SAP #1000811426), PRIME-770 (SAP #1000811427), OHR-7 (SAP #1000811421), OHR-7 (SAP #1000811422), OHR-7 (SAP #1000811422), OHR-7 (SAP #1000811424), GLACI ACETIC ACID (SAP #1000814796), AND FORMIC ACID (SAP #1000811877)]. CHEMICAL AND PHYSICAL SPECIFICATIONS: APPEARANCE: CLEAR COLORLESS LIQUID FORMIC ACID: >90%. SAUDI ARAMCO RESERVES THE RIGHT TO COLLECT REPRESENTATIVE PRODUCT SAMPLES AND CONDUCT LABORATORY TESTS TO ENSURE COMPLIANCE WIT THE MATERIAL DESCRIPTION AND SPECIFICATIONS. PRODUCT MANUFACTURER AND/OR SUPPLIER ARE REQUIRED TO SUBMIT LAB CERTIFICATE OF ANALYSIS (COA) AND CERTIFICATE OF ORIGIN (COO) FOR EVERY BATCH. LABEL: PRODUCT NAME, BATCH NUMBER, PRODUCTION DATE, SAP NUMBER, EXPIRATION DATE, AND COUNTRY OF ORIGIN, MANUFACTURER NAME AND CONTACT INFORMATION. HAZCOM ACCORDING TO THE MATERIAL SAFETY DATA SHE (MSDS). "UOM REFERRED IN THIS MATERIAL IS NET VOLUME/WEIGHT" (AS APPLICABLE, SAFETY DATA SHEET SHOULD BE SUBMITTED WITH PO OFFER AND DURING MATERIAL DELIVERY)
Chemicals	1001071292	NON-EMULSIFIER SURFACTANT	NON-EMULSIFIER SURFACTANT. ADDITIVE DRILLING FLUID; LIQUID NON-EMULSIFIER SURFACTANT FORM, NON-EMULSIFIER SURFACTANT, FOR LIQUID FORM, SURFACTANT DESIGNED AS NONEMULSIFIER ADDITIVE FOR ACIDIZING LIMESTONE, DOLOMITE AND SANSDTONE, OR FOR FRACTURE CLEANING TREATMENT LIQUID NON-IONINC WATER DISPERSING NON-EMULSIFIER SURFACTANT DESIGNED FOR APPLICATIONS IN CEMENTING, ACIDICING, WELL STIMATION, AND FRACTURING. THE PRODUCT CAN ALSO BE USED AS TREATEMENT OF THE WELLBORE BEFORE DISPLACEMENT FROM OIL BASED MUDS TO WATER BASE, NON-EMULSIFIER SURFACTANT, 5 GAL PAIL, NET PRODUCT VOLUME OF 5 GAL, APPEARANCE: YELLOW LIQUI SPECIFIC GRAVITY AT 68 DEG. F (20 DEG. C): 0.85-0.95. FLASH POINT: >86 DEG. F (30 DEG. C). NON-DEGRADABLE IN 15% HC 5 GAL PAIL(18.9 LITERS), NET PRODUCT VOLUME OF 5 GAL. SAUDI ARAMCO RESERV THE RIGHT TO COLLECT REPRESENTATIVE PRODUCT SAMPLES AND CONDUCT LABORATORY TESTS TO ENSU COMPLIANCE WITH THE MATERIAL DESCRIPTION AND SPECIFICATIONS. PRODUCT MANUFACTURER AND OR SUPPLIER ARE REQUIRED TO SUBMIT LAB CERTIFICATE O ANALYSIS FOR EVERY BATCH (COA) AND CERTIFICATE OF ORIGIN (COO). PRODUCT MANUFACTURER AND/OR SUPPLIER ARE REQUIRED TO SUBMIT LAB CERTIFICATE O ANALYSIS (COA) AND CERTIFICATE OF ORIGIN (COO) FOR EVERY BATCH. U REFERRED IN THIS MATERIAL IS NET VOLUME/WEIGHT.LABEL: PRODUCT NAME, BATCH NUMBER, PRODUCTION DATE, SAP NUMBER, EXPIRATION DATE, AND COUNTRY OF ORIGIN, MANUFACTURER NAM AND CONTACT INFORMATION. HAZCOM ACCORDING TO THE MATERIAL SAFETY DATA SHE MSDS. UOM REFERRED IN THI MATERIAL IS NET VOLUME/WEIGHT. (AS APPLICABLE, SAFETY DATA SHEET SHOULD BE SUBMITTED WITH PO OFFER AND DURING MATERIAL DELIVERY)
Nonmetallic	6000018060	VESSEL, PRESSURE, ANY, FIBREGLASS-REINFO	VESSEL; PRESSURE TYPE,ANY,FIBREGLASS-REINFORCED PLASTIC (FRP),WATER SERVICES ONLY
Nonmetallic	600000030	PIPE; NON-METALLIC; THERMOPLASTIC; CPVC;	PIPE NON-METALLIC; ANY NPS, CHLORINATED POLYVINYL CHLORIDE (CPVC), ISO 15877, ASTM F441, SOLID-WALL, MAXIMUM TEMPERATURE IS 82 C HOT AND COLD WATER INSTALLATIONS AND FOR HEATING SYSTEM INSTALLATIONS SYSTEM. HOT AND COLD WATER INSTALLATIONS WITHIN BUILDINGS, WATER FOR HUMAN CONSUMPTION, WATER FOR HEATING SYSTEMS. # SSURIZED
Nonmetallic	600000031	PIPE; NON-METALLIC; ALL SIZES; THERMOPLA	PIPE NON-METALLIC; ANY NPS,THERMOPLASTIC, UPVC,M D1785,1452 AND ASTM D4216,SOLID-WALL, MAXIMUM TEMPERATURE IS 45 C, (UNPLASTICIZED) POLYVINYL CHLORIDE (PVC/ UPVC) WATER SUPPLY AND FOR BURIED AND ABOVE-GROUND DRAINAGE AND SEWERAGE UNDER PRESSURE WATER MAINS AND SERVICES, WATER ABOVE GROUND FOR BOTH OUTSIDE AND INSIDE BUILDINGS, BURIED AND ABOVE GROUND DRAINAGE AND SEWERAGE UNDER PRESSURE, HYDROCHLORIC ACID,PHOSPHORIC ACID AND LPG, NGL.# IED
Nonmetallic	6000000409	Hose; High pressure 500 psig and greater	HOSE; SIZE ANY, FOR GENERAL PURPOSES, PR HIGH PRESSURE 500 PSIG AND GREATER, REINFORCED NATURAL OR SYNTHETIC RUBBER, SAE 100R, FOR GENERAL PURPOSES SUCH AS OIL AND WATER-BASED FLUIDS, PNEUMATIC APPLICATIONS, LOW PRESSURE HYDRAULIC, LUBRICATING FLUIDS, WATER#.ETC.
Nonmetallic	600000410	Hose: Rubber wire reinforced dock hoses	HOSE; SIZE 102 MM (4 IN) TO305 MM (12 IN),FOR ANY,RUBBER WIRE REINFORCED DOCK HOSE,22-SAMSS-003,FOR OIL SUCTION AND DISCHARGE OPERATIONS. NOMINAL HOSE BORE USED FOR TRANSFERRING CRUDE OIL AND LIQUID PETROLEUM PRODUCT (OTHER THAN LIQUEFIED PETROLEUM GAS AND LIQUEFIED NATURAL GAS). TEMPERATURE RANGES FROM 5°C (41°F) TO 80°C (180°F) AND MAXIMUM 40% AROMATIC HYDROCARBON CONTENT. FOR CRUDE OIL, TANKER FUEL AND HYDROCARBON PRODUCTS OTHER THAN LIQUEFIED PETROLEUM AND NATURAL GAS.
Nonmetallic	600000411	Hose: Rubber, reinforced, smooth bore,	HOSE; SIZE 150 MM(6 IN) TO 600 MM(24 IN), FOR OIL, MARINE FOR TANKER LOADING, RUBBER, REINFORCED, SMOOTH BORE, 22-SAMSS-004, OIL SUCTION AND DISCHARGE HOSES FOR USE AT OFFSHORE INSTALLATIONS. NOMINAL DIAMETER. THE HOSE TYPES ARE AS FOLLOWS: # FLOATING HOSE: VARIABLY REINFORCED HALF FLOAT (VRHF), FULL FLOAT (FF), AND RAIL/TAIL (R/T) # SUBMARINE HOSE: STANDARD SUBMARINE (SS), SPECIALLY REINFORCED FOR SALM SERVICE (SRSS), AND VARIABLY REINFORCED FOR SPM SERVICE (VRSS). TEMPERATURE RANGES FROM 5°C (41°F) TO 63°C (145°F) AND MAXIMUM 25% AROMATIC HYDROCARBON CONTENT. OFFSHORE OIL SUCTION AND DISCHARGE#CRUDE OIL AND LIQUID PETROLEUM PRODUCT (OTHER THAN LIQUEFIED PETROLEUM GAS AND LIQUEFIED NATURAL GAS)
Nonmetallic	6000010400	HOSE:OFFSHORE,OIL SUCT/DISC HOSES	HOSE; SIZE ANY,FOR ANY,22-SAMSS-004,RUBBER, REINFORCED, SMOOTH BORE, OIL SUCTION AND DISCHARGE HOSES FOR USE AT OFFSHORE INSTALLATIONS. SIZE RANGES FROM 150 MM (6 IN) TO 600 MM (24 IN) NOMINAL DIAMETER. 22-SAMSS-004, THE HOSE TYPES ARE AS FOLLOWS:#FLOATING HOSE: VARIABLY REINFORCED HALF FLOAT (VRHF), FULL FLOAT (FF), AND RAIL/TAIL (R/T) SUBMARINE HOSE: STANDARD SUBMARINE (SS), SPECIALLY REINFORCED FOR SALM SERVICE (SRSS), AND VARIABLY REINFORCED FOR SPM SERVICE (VRSS)#TEMPERATURE RANGES FROM 5°C (41°F) TO 63°C (145°F) AND MAXIMUM 60% AROMATIC HYDROCARBON CONTENT. 22-SAMSS-004. OFFSHORE OIL SUCTION AND DISCHARGE CRUDE OIL AND LIQUID PETROLEUM PRODUCT (OTHER THAN LIQUEFIED PETROLEUM GAS AND LIQUEFIED NATURAL GAS)
Nonmetallic	6000017130	FIRE-RETARDANT RTR	PIPE NON-METALLIC; ANY NPS,ANY,01-SAMSS-034, SAES-B-017, ISO 14692,PIPE & FITTING, FIRE-RETARDANT NONMETALLIC RTR FOR ABOVEGROUND FIREWATER SYS. EPOXY BASED REINFORCED THERMOSETTING RESIN PRESSURIZED PIPE. FILAMENT WOUND MANUFACTURING PROCESS WITH ADDITIONAL FIRE RETARDANT LAYER FOR ABOVEGROUND FIREWATER PIPING SYSTEMS (RAW/FIRE COMBINED WATER SYSTEM AND DEDICATED FIREWATER SYSTEM) IN ACCORDANCE WITH FM 1614. FIRE PERFORMANCE CLASSIFICATION AS PER ISO 14692-2 SECTION 6.5.2.
Nonmetallic	6000007813	GRATING; OFFSHORE; FIRE RETARDANT;Non metallic	GRATING; FIRE RETARDANT TYPE,SIZE ANY,PULTRUDED PHENOLIC RESIN,12-SAMSS-023,NONMETALLIC FIBER-REINFORCED COMPOSITE PLATFORMS. SHORE
Others	6000001829	COIL; REFRIGERATION;HVAC USE	COIL; COIL, REFRIGERATION, HOT/CHILLED WATER APPLICATIONS TYPE, AHRI 410 CERTIFIED
Others	6000001882	AIR CONDITIONING UNIT; DIRECT EXPANSION;	AIR CONDITIONING UNIT; DIRECT EXPANSION TYPE, 27-SAMSS-002, UL-1995 AHRI-210/240 (< 5.5 TON), AH, HVAC/REFRIGERATION:SYSTEMS FOR PROCESS AND OFFSHORE APPLICATIONS
Others	6000014875	DAMPER; BACK DRAFT	DAMPER; BACK DRAFT TYPE,SIZE ANY, AMCA 511
Others	6000014878	AIR HANDLING UNIT; CUSTOM BUILT	AIR HANDLING UNIT; AIR HANDLING UNIT CUSTOM BUILT TYPE, ANY, AMCA 99, NFPA 70, NFPA 90A, AHRI 430, AHRI 410 SEAL FOR COILS, AMCA 210 AND 301 SEA FOR FANS
Others Others	6000008555 6000012705	Thermal & Electro-dialysis Desal Sys  Oil Skimmer	ESALINATION; THERMAL & ELECTRO-DIALYSIS DESALINATION SYSTEMS YPE, REVERSAL (EDR) EQUIPMENT  UNIT; OIL SKIMMER TYPE, OIL/WATER-OIL SKIMMERS: A DRUM, DISK SURFACE OIL SKIMMER, OR DOUBLE ARM INTERNAL FLOAT OIL SKIMMER THAT REMOVES SURFACE OILS
Others	6000010110	Water Media Filters	FLOATING ON OILY WATER RELY ON ADHESION OF OIL TO THE SURFACE OF THE MECHANISM.  FILTER; WATER MEDIA FILTERS TYPE
Others	6000012655	WASTEWATER ODOR CONTROL	CONTROL; WASTEWATER ODOR TYPE,
Others	6000016133	REACTOR ; MOVING BED BIOLOGICAL	REACTOR; MOVING BED BIOLOGICAL REACTOR TYPE, SAES-A-104, IS A SINGLE OR MULTIPLE- STAGE ACTIVATED SLUDGE BIOLOGICAL TREATMENT PROCESS SYSTEM FOR CARBON AND/OR NITROGEN REMOVAL USING MOVING PLASTIC CARRIERS WITH FIXED BIOFILM
Others	6000017280	UNIT; ELECTRO-DEIONIZATION	UNIT; ELECTRO-DEIONIZATION TYPE, NA, WATER ELECTRO-DEIONIZATION (EDI) UNIT ASSEMBLED AND READY TO CONNECT AND START. CONSISTS OF: (1) ELECTRO-DEIONIZATION UNIT TO PRODUCE DEIONIZED WATER FROM RO 2ND PASS. (2) CO2 REMOVAL SYSTEM THROUGH MEMBRANE CONTACTORS. (3) CONTROL AND INSTRUMENTATION.
Others	6000010115	Wastewater Package Treatment Plant	UNIT; WASTEWATER PACKAGE TREATMENT PLANT TYPE
Others	6000001314	MONITOR; FIREFIGHTING, HYDRANT-MOUNTED TYPE,UL/FM	MONITOR; FIREFIGHTING, HYDRANT-MOUNTED MANUALLY OPERATED TYPE,ANY RANGE,MEETING 21-SAMSS-16,INDUSTRIAL MONITOR SYSTEM, WILL BE INSTALLED ON# 9COM 6000001310
Others	6000002696	PANEL CONTROL; FIRE PUMP TYPE,UL/FM LISTED/APPROVED,COMPLY	PANEL CONTROL; FIRE PUMP TYPE, UL 218 LISTED, FOR DIESEL/ELECTRICAL FIRE PUMP CONTROLLERS PANELS SHALL BE LISTED FOR +50 DEG CELSIUS, ENCLOSURE MUST BE NEMA 250/NEMA TYPE 4 FOR ONSHORE AND NEMA TYPE 4X FOR OFFSHORE AND NEAR SHORE ENVIRONMENT OUTDOOR WITH SHELTER INSTALLATION, INDOOR WITH AIR-CONDITIONED INSTALLATIONS ARE ALLOWED TO BE ONLY UL 218 LISTED WITHOUT 50 DEG/NEMA 4/4X ENCLOSURE, ALL PANELS MUST BE CAPABLE OF PROVIDING THE PUMPS SEQUENCING FUNCTIONS IN SAES-B-017 / SAES-P-116
Others	6000011727	DETECTOR FIRE PROTECTION; VERY EARLY WARNING ASPIRED SMOKE	DETECTOR FIRE PROTECTION; VERY EARLY WARNING ASPIRED SMOKE DETECTION SYSTEM TYPE,UL/FM LISTED/APPROVED,COMPLY W,CONSISTING OF HIGH SENSITIVITY AIR ASPIRATED SMOKE DETECTION EQUIPMENT. MUST BE UL/FM#LISTED/APPROVED AND COMPLY WITH NFPA, CONTACT FRPD RSA FOR DETAILS.
Others	6000017250	SUPPRESSOR; FIRE PROTECTION, WET CHEMICAL SYSTEM FOR COMMERICAL	SUPPRESSOR; FIRE PROTECTION, WET CHEMICAL SYSTEM FOR COMMERICAL COOKING EQUIPMENT TYPE, UL 300 LISTED, FIRE EXTINGUISHING SYSTEMS FOR, ALL COMPONENTS INCLUDING AGENT CYLINDERS, INSTRUMENTATION, FUSIBLE LINKS, INITIATING DEVICES, WET CHEMICAL, EXPELLANT GAS, PENUMATIC RELEASE, ACTIVATION MECHANISM, CONTROL EQUIPMENT FOR POWER/GAS, COVERS, CONTROL PANELS.
Others	6000014422	MONITOR; FIREFIGHTING, REMOTE CONTROL TYPE,ELECTRICALLY OPERATED	MONITOR; FIREFIGHTING, REMOTE CONTROL TYPE, ANY RANGE,ELECT OR HYDRAULIC OPERATED SUPPLY, MEETING 21-SAMSS-16, FULL SYSTEM FULL CONTROL INDUSTRIAL APPLICATIONS MEETING PROJECT SPECS
Others	6000001014	CP,POWER SUPPLY;RECTIFIER;IMPRESSED CURR	RECTIFIER IMPRESSED CURRENT; HODIC PROTECTION SE CONTROL TYPE, ANY OUTPUT, 17-SAMSS-005