

Projects Preferred Manufacturers List (PML)

Category	Product Name
1.0	MECHANICAL MATERIALS
1.01	Equipment Packages
1.01.01	Hydrocyclone Package
1.01.02	Chlorination Package
1.01.03	Desalination Package
1.01.04	Water Maker (Vapor Compression)
1.01.05	Glycol Dehydration Package
1.01.06	Chemical Injection (Chemical)
1.01.07	Chemical Injection (Methanol)
1.01.08	Nitrogen Production
1.01.09	Filter Separator / Coalescer
1.01.10	Process Filter
1.01.11	Fired Heater
1.01.12	Hot Oil Units
1.01.13	Burners
1.01.14	Electro-chlorination Units
1.01.15	Flare Package
1.01.16	Sewage Treatment
1.01.17	Process skids

	Product Name	Company	Parent Company	Country Of Manufacturer	Remarks
1.01.18	Instrument Air Drier				
1.01.19	Steam Desuperheater				
1.01.20	Deaerator - Boiler Water (Ion Exchange-Type)				
1.01.21	Produced Water Treatment package				
1.01.22	Boiler				
1.01.23	DM Water Package				
1.02	Vessels				
1.02.01	Pressure Vessel and Column (Upto 75mm thickness only)				
1.02.02	Pressure Vessel and Column (Heavy Wall) (Above 75mm thickness)				
1.02.03	Heat Exchanger (Shell and Tube Heat Exchanger)				
1.02.04	Heat Exchanger (Shell and Tube Condenser)				
1.02.05	Heat Exchanger (High Pressure Heat Exchanger)				
1.02.06	Heat Exchanger (Brazed Aluminum Heat Exchanger)				
1.02.07	Heat Exchanger (Air-Cooled Heat Exchanger (Air Fin Cooled))				
1.02.08	Heat Exchanger (Plate & Frame & Printed Circuit Heat Exchanger)				
1.02.09	Slug Catcher				
1.02.10	Separator (3-phase including Process design & Internals)				
1.03	Air Coolers / (COOLING TOWERS)				
1.03.01	Wet Air Coolers (Cooling Towers)				
1.04	Air Filter				
1.04.01	Air Filter				
1.05	Silencer				
1.05.01	Silencer				
1.06	Dampener				
1.06.01	Pulsation Dampener / Combination Dampener				
1.07	Vessel-Mounted Equipment				
1.07.01	Vessel Closure (Quick Opening Closure for Vessel)				
1.07.02	Tank Gauge Hatch (Emergency Relief M/H Cover)				

	Product Name	Company	Parent Company	Country Of Manufacturer	Remarks
1.07.03	Tank Strapping				
1.07.04	Tank Flame Arrestor				
1.08	Tank				
1.08.01	Storage Tank				
1.09	Tank Appurtenance				
1.09.01	Floating RoofTank Roof Seal				
1.09.02	Floating Roof Tank Roof Drain				
1.09.03	Internal Floating Cover for IFR Tank				
1.09.04	Geodesic Dome IFR Tank Roof (Aluminium)				
1.10	Vessel and Tank Plate				
1.10.01	Pressure Vessel and Tank Plate				
1.11	Column Internals (Tray / Packings)				
1.11.01	Column, Internal(Trays/Packing)				
1.12	Incinerator Package				
1.12.01	Incinerator Package				
1.13	Static Mixer				
1.13.01	Static Mixer				
1.14	Effluent Water Treatment Packages				
1.14.01	Effluent/Oily Water Treatment packages				
1.15	Loading Arm				
1.15.01	Marine (Loading Arm)				
1.15.02	Truck (Loading Arm)				
1.16	Crane				
1.16.01	Overhead Crane				
1.16.02	Electric Overhead Traveling (EOT) Crane				
1.16.03	Pedestal Crane				
1.16.04	Goliath / Gantry / Jib Crane				
1.16.05	Mobile Crane				

	Product Name	Company	Parent Company	Country Of Manufacturer	Remarks
1.17	Hoist				
1.17.01	Manual / Pneumatic Industrial Hoist				
1.17.02	Electric Industrial Hoist				
1.18	Forklift				
1.18.01	Hydraulic Forklift Truck				
1.19	Blower				
1.19.01	Centrifugal Blower				
1.19.02	Rotary Positive Displacement Blower				
1.20	Fan				
1.20.01	Fan				
1.21	Safety / Relief				
1.21.01	Safety/Relief Valves				
1.22	Valve - Pressure Vent				
1.22.01	Pressure Vent Valves				
1.24	Tank Vent / Pressure Vaccum Valve				
1.24.01	Tank Vent / Pressure Vaccum Valve				
1.25	Rupture Disc				
1.25.01	Safety/Relief Valves-Rupture Disc				
2.0	PIPING MATERIALS				
2.01	Valves				
2.01.01	Gate Valves				
2.01.02	Globe Valves				
2.01.04	Butterfly Valves				
2.01.05	Double Offset Butterfly Valves				
2.01.06	Triple Offset Butterfly Valves				
2.01.07	Ball Valves				
2.01.08	Check Valves				
2.01.09	Plug Valves				

	Product Name	Company	Parent Company	Country Of Manufacturer	Remarks
2.01.10	Through-Conduit Valves				
2.01.11	Process anti Surge Valves				
2.01.12	Integral Block-and-Bleed valves and Monoflange for Fittings				
2.01.14	Choke Valve				
2.02	Valve Interlocks - Mechanical				
2.02.01	Valve Interlocks				
2.03	Pipe and Fittings - Incoloy				
2.03.01	Incoloy Pipes & Fittings				
2.04	Pipe and Fittings - Cu-Ni				
2.04.01	Cu-Ni Pipe & Pipe Fittings				
2.05	Corrosion Coupons and Probes				
2.05.01	Corrosion Coupons & Probes				
2.06	Piping and Tubing				
2.06.01	Carbon Steel and Ferritic				
2.06.02	Stainless Steel and Specialty Alloy				
2.07	Fittings - Buttweld, Carbon Steel, Ferritic and Stainless Steel				
2.07.01	Fittings				
2.08	Forged Flanges, Fittings & Reinforced Branch Connections - Carbon Steel, Ferritic, Stainless and Speciality Alloy				
2.08.01	Forged Flanges, Fittings & Reinforced Branch Connections - Carbon Steel, Ferritic, Stainless and Speciality Alloy				
2.09	GRE / GRP Pipe and Fittings				
2.09.01	GRE/GRP Pipes & Fittings				
2.10	Steam Traps and Strainer				
2.10.01	Steam Traps				
2.10.02	Strainer				
2.11	Steam Eductor / Ejector				
2.11.01	Steam Eductor / Ejector				
2.12	Gaskets and Packing				
2.12.01	Gaskets / Packings				
2.13	Insulation Gasket - GRE				

	Product Name	Company	Parent Company	Country Of Manufacturer	Remarks
2.13.01	Flange Insulation Sets, compliance with MESC SPE 85/201				
2.14	Spring Hangers and Pipe Supports				
2.14.01	Spring Hangers & Pipe Supports				
2.15	Expansion Joints				
2.15.01	Expansion Joints				
2.16	Stud Bolts and Nuts				
2.16.01	Stud Bolts and Nuts				
2.17	Spectacle Blinds / Paddle & Spacer				
2.17.01	Spectacle Blinds / Paddle & Spacer				
2.18	Thermal Insulation				
2.18.01	Thermal Insulation				
2.19	Fittings, Chemical Injection				
2.19.01	Fittings, Chemical Injection				
3.0	INSTRUMENT MATERIALS				
3.01	Manual Call Point				
3.01.01	Manual Call Points				
3.02	Switch - Limit				
3.02.01	Limit Switch				
3.03	Pig Signal				
3.03.01	Pig Signalers				
3.04	Terminal - Wiring				
3.04.01	Terminals				
3.05	Detector - High-Sensitivity, Smoke				
3.05.01	HSSD				
3.06	Detector - Smoke / Heat				
3.06.01	Smoke & Heat Detectors				
3.07	Plug - Fusible				
3.07.01	Fusible Plugs				
3.09	Cable Ladder / Tray				

	Product Name	Company	Parent Company	Country Of Manufacturer	Remarks
3.09.01	Cable Ladder & Tray				
3.10	Junction Box - (Foundation Fieldbus) with Field Barrier				
3.10.01	Junction Box (FF) with Field Barrier				
3.11	Transmitter - Pressure / Differential Pressure, SMART				
3.11.01	Pressure & DP Transmitters				
3.12	Transmitter - Pressure / Differential Pressure, Foundation Fieldbus				
3.12.01	Pressure Transmitter & DP Transmitters FF				
3.13	Gauge - Pressure / Differential Pressure				
3.13.01	Pressure & DP Gauges				
3.14	Pressure Switch - Electric				
3.14.01	Pressure Switches (Electric)				
3.15	Pressure Switch - Pressure Pilot, Block and Bleed, Pneumatic				
3.15.01	Pressure Pilots (Block & Bleed)				
3.16	Pressure Regulator				
3.16.01	Pressure Regulator				
3.17	Orifice Plate				
3.17.01	Orifice Plate				
3.18	Meter				
3.18.01	Mass Flow Meter - Coriolis				
3.18.02	Vortex Flow Meter				
3.18.03	Magnetic Flow Meter				
3.18.04	Ultrasonic Flow Meter				
3.18.05	Turbine Flow Meter				
3.18.06	Pitot Tube - Flow, Averaging				
3.18.07	Thermal Mass Flow Meter				
3.18.08	Positive Displacement (PD) Flow Meter				
3.18.09	Multiphase Flow Meter				
3.18.10	Variable Area Flow Meter (Rotameter)				

	Product Name	Company	Parent Company	Country Of Manufacturer	Remarks
3.19	Metering (Custody or Fiscal Transfer) Package with Prover				
3.19.01	Metering (Custody or Fiscal Transfer) Package with Prover				
3.20	Flow Switch				
3.20.01	Flow Switch				
3.21	Meter Prover Package				
3.21.01	Meter Provers				
3.22	Transmitter - Temperature, SMART				
3.22.01	Temperature Transmitter (SMART Electronic Type)				
3.23	Transmitter - Temperature, Foundation Fieldbus				
3.23.01	Temperature Transmitters (FF)				
3.24	Temperature Gauge				
3.24.01	Temperature Gauge				
3.25	Thermowell				
3.25.01	Thermowell				
3.26	Temperature Element - Thermocouple / Resistance-Type Device (RTD)				
3.26.01	Temperature Elements (RTD, T/C)				
3.27	Temperature Switch				
3.27.01	Temperature Switch				
3.28	Level Switch - Float-Type				
3.28.01	Level Switch (Float Type)				
3.29	Level Gauge - Magnetic, Glass				
3.29.01	Level Gauge (Magnetic)				
3.30	Level Gauge - Glasses & Cocks				
3.30.01	Level Gauge Glasses & Cocks				
3.31	Transmitter - Level, Displacer-Type				
3.31.01	Level Transmitter (Displacer Type)				
3.32	Tank Gauging System				
3.32.01	Tank Gauging System				
3.33	Transmitter - Level, Radar				

	Product Name	Company	Parent Company	Country Of Manufacturer	Remarks
3.33.01	Level Radar Level Transmitter				
3.34	Transmitter - Level, Ultrasonic				
3.34.01	Ultrasonic Level Transmitter				
3.35	Transmitter - Level, Capacitance				
3.35.01	Capacitance Type Level Transmitter				
3.36	Distributed Control System (DCS) / Process Control System (inclusive of all associated, system-related software and hardware components)				
3.36.01	Distributed Control System				
3.37	Programmable Logic Controller (PLC) (inclusive of all associated, system-related software and hardware components)				
3.37.01	Programmable Logic Controller (Plcs)				
3.38	SCADA/Telemetry System (inclusive of all associated, system-related software and hardware components, like Remote Terminal Unit, Masetr				
3.38.01	Telemetry System				
3.39	Emergency Shutdown (ESD) / Fire & Gas (F&G) System (inclusive of all associated, system-related software and hardware components)				
3.39.01	Safety (Esd / F&G) System				
3.40	Analyzer Packages (inclusive of all associated, system-related software and hardware components, housings / enclosures, and sample runs /				
3.40.01	Analysers- Chromatograph				
3.40.02	Analysers- Oxygen				
3.40.03	Analysers- Ph				
3.40.04	Analysers- Moisture				
3.40.05	Analysers-Density				
3.40.06	Analysers- Chlorine				
3.40.07	Analysers-Conductivity				
3.40.08	Analysers-Water In Oil				
3.40.09	Basic Sediment and Water (BS&W)				
3.40.10	Analysers- Oil-In-Water				
3.40.11	Analysers-Turbidity				
3.40.12	Analysers-Water Quality				
3.40.13	Analysers-Emission Gas				
3.40.14	Analysers - Air Quality				

	Product Name	Company	Parent Company	Country Of Manufacturer	Remarks
3.40.15	Analysers-Weather & Climate				
3.40.16	Analysers-Hydrogen				
3.40.17	Analysers-Radiation				
3.41	Valve				
3.41.01	Control - Gate / Globe Valve				
3.41.02	Control Valve- (Ball Valve)				
3.41.03	Control Valve- (Butterfly Valve)				
3.41.04	Control Valve- (Choke Valves)				
3.41.05	Control Valves				
3.41.06	Valve - Shutdown				
3.41.07	Solenoid Valves				
3.42	Fire & Gas System				
3.42.01	Fire,Safety,Environ / Detectors & Controls				
3.43	Burner Management System				
3.43.01	Flame Monitor & Burner Management				
3.44	Purge Control System				
3.44.01	Purge Control System (Ex 'P')				
3.45	Anti-Surge Control System - Compressor				
3.45.01	Anti-Surge Control				
3.46	Vibration Monitoring System				
3.46.01	Vibration Monitoring				
3.47	Valve Actuator				
3.47.01	Pneumatic - Emergency Shutdown (ESD) / Blowdown				
3.47.02	Hydraulic - Emergency Shutdown (ESD) / Blowdown				
3.48	Controller - Single Loop				
3.48.01	Single Loop Controller				
3.49	Recorder - Strip Chart				
3.49.01	Strip Chart Recorder				

	Product Name	Company	Parent Company	Country Of Manufacturer	Remarks
3.50	Annunciator				
3.50.01	Annunciator				
3.51	Recorder - Electronic, Sequence of Events (SOE), non-ESD				
3.51.01	Recorder				
3.52	Relay - Electromagnetic				
3.52.01	Electrmagnetic Relays				
3.53	Positioner - Electro-Pneumatic				
3.53.01	Electro-Pneumatic Positioner & I/P Transducers				
3.54	Valve Positioner - Foundation Fieldbus				
3.54.01	Valve Positioners (Ff)				
3.55	Junction Box				
3.55.01	Junction Boxes/Pushbuttons And Switches				
3.56	Enclosure - Instrument				
3.56.01	Instrument Enclosure				
3.57	Control / Marshalling Panel - Pre-fabricated				
3.57.01	Control & Marshalling Panels				
3.58	Cable - Instrument				
3.58.01	Cables & Wires				
3.59	Tubing				
3.59.01	Tubing				
3.60	Sunshade - Field Instrument				
3.60.01	Field Inst-Control				
3.61	Cable Gland				
3.61.01	Cable Glands				
3.62	Manifold - Instrument Valve				
3.62.01	Instrument Valves, Manifolds				
3.63	Regulator - Air Filter				
3.63.01	Air Filter Regulator				
3.64	Tubing Fitting - Compression				

	Product Name	Company	Parent Company	Country Of Manufacturer	Remarks
3.64.01	Tubing Fittings				
3.65	Barrier - Intrinsically Safe				
3.65.01	Interface Devices / Barriers				
3.66	Noise Measurement System				
3.66.01	Noise Measurement Equipment				
3.67	Detector - Flame				
3.67.01	Detector-Flame				
3.68	Detector - Gas (point type; open path type, H2S and acoustic detectors)				
3.68.01	Gas Detectors				
3.69	Beacon / Horn				
3.69.01	Beacon / Horn				
3.70	Trip Amplifier				
3.70.01	Trip Amplifier				
3.71	High-Integrity Pressure Protection System (HIPPS)				
3.71.01	High-Integrity Pressure Protection System Using Axial, Fast- Acting Valves				
3.72	Wellhead Control Panel				
3.72.01	Wellhead Control Panel				
4.0	SAFETY & SURVIVAL EQUIPMENT				
4.01	Foam Concentrate				
4.01.01	Foam Concentrate				
4.02	Monitor (includes foam monitors) - Tech HSE				
4.02.01	Foam Monitor				
4.03	Foam Proportioner (Includes skid mounted units) - Tech HSE				
4.03.01	Foam Proportioner				
4.04	Foam Pourer - Tech HSE (includes tank to, rim seal, dyke/bund, foam generators, etc)				
4.04.01	Foam Pourer				
4.05	Fire Extinguisher (includes all trolley mounted and all types portable extinguishers) - Tech HSE				
4.05.01	Fire Extinguisher				
4.06	Life Jacket				

	Product Name	Company	Parent Company	Country Of Manufacturer	Remarks
4.06.01	Life Jacket				
4.07	Stretcher and Breathing Apparatus				
4.07.01	Stretcher & Bas				
4.08	Life Buoy				
4.08.01	Life Buoy				
4.09	Life Saving Equipment (includes first aid boxes; Wind Socks; Electrical Safety Kit; Fire Blanket; grab emergency bags; Safety Shower and Eye				
4.09.01	Fire Safety Equipment				
4.10	Life Raft				
4.10.01	Life Raft				
4.11	Survival Craft / Escape Capsul Package				
4.11.01	Survival Craft/ Escape Capsule				
4.12	Floatation Survival Systems				
4.12.01	Flotation Survival Systems				
4.13	Oil Spill Containment System				
4.13.01	Oil Spill Containment System				
4.14	Foam Branch Nozzle (including self foam eductors assembly)				
4.14.01	Foam Branch Nozzle				
4.15	Fire Hydrant (including hydrants assembly; landing valves; hydrant hose reels; hydrant box; hose nozzles; integrated hose reels; etc)				
4.15.01	Fire Hydrant				
4.16	Gaseous Fire Suppression/Clean Agent System				
4.16.01	Fire Suppression				
4.17	Deluge System (Water and Foam)-Skid-Mounted, and Nozzles				
4.17.01	Deluge System-Skid Mounted				
4.18	Sprinkler System and Accessories (Alarm Check Valve Assembly, zone control valves; motor gong; quartzoid buld sprinklers; fusible plugs; etc)				
4.18.01	Sprinkler System				
4.19	Breathing Apparatus (includes BA manifold)				
4.19.01	Breathing Apparatus / Sets				
5.0	TELECOMMUNICATION EQUIPMENT				
5.01	Fibre Optic Cables & Accessories				

	Product Name	Company	Parent Company	Country Of Manufacturer	Remarks
5.01.01	Fibre Optic Cables				
5.01.02	Fibre Optic Cables - Subsea (New category)				
5.01.03	Fibre splice boxes / Enclosures (New category)				
5.02	Media Converters / Industrial Switches (New category)				
5.02.01	Media Converters / Industrial Switches				
5.03	Optical / Fibre Transmission Systems - DWDM / SDH / OTN (New category)				
5.03.01	Optical / Fibre Transmission Systems				
5.04	Telecom Cabinets / Racks (New category)				
5.04.01	Telecom Cabinet / Racks				
5.05	Radio Equipment				
5.05.01	Voice Communication Control System / Integrated Communication Control Systems / Radio Management System				
5.05.02	Marine VHF				
5.05.03	Aeronautical VHF				
5.05.04	UHF (DMR / PMR)				
5.05.05	HF / SSB				
5.05.06	Hand portable radios				
5.05.07	Automatic Identification Systems (AIS)				
5.05.08	Non Directional Radio Beacons				
5.05.09	Microwave Radio				
5.05.10	Microwave Antenna				
5.06	Meteorological / Weather Monitoring System (New category)				
5.06.01	Meteorological / Weather Monitoring System				
5.07	Navigational Aids (New category)				
5.07.01	Navigational Aids				
5.08	Emergency communication Equipment				
5.08.01	Public Address / General Alarm Systems				
5.08.02	PA/GA- Loud speakers				
5.08.03	PA/GA - Beacons				

	Product Name	Company	Parent Company	Country Of Manufacturer	Remarks
5.08.04	PA/BGM - Audio Amplifiers				
5.08.05	PA/BGM- Loud speakers				
5.08.06	Acoustic Hoods & Booths				
5.08.07	Hazardous Area Telephones / Field telephones				
5.09	Closed-Circuit Television (CCTV) System (New category)				
5.09.01	Closed Circuit Television Equipment				
5.1	Access Control System (New category)				
5.10.01	Access Control System				
5.11	Security Alarm Monitoring Systems (New category)				
5.11.01	Security Alarm Monitoring Systems				
5.12	Boom barriers, Turnstile, Road Blockers (New category)				
5.12.01	Traffic Barriers				
5.13	Clock synchronization / GPS clock (New category)				
5.13.01	Gps Clock / Antenna				
5.14	Video Wall Solutions (New category)				
5.14.01	Video Wall Solutions				
5.15	Building Management System (New category)				
5.15.01	Building Management System				
5.16	Power Supply Equipment - Telecom systems (New category)				
5.16.01	Power Supply Equipment				
5.17	Control room console - Telecom systems (New category)				
5.17.01	Control Room Consoles				
6.0	ELECTRICAL MATERIALS				
6.01	Transformer				
6.01.01	Power				
6.01.02	Distribution				
6.02	Switchgear				
6.02.01	High Voltage				

	Product Name	Company	Parent Company	Country Of Manufacturer	Remarks
6.02.02	Medium Voltage				
6.02.03	Low Voltage and Motor Control Center				
6.03	Electrical Drive - Variable Speed, Medium Voltage				
6.03.01	Electrical Drives				
6.05	Electrical Motor - Medium and Low Voltage				
6.05.01	Motors				
6.06	Protection Relay				
6.06.01	Protection Relays				
6.07	Overhead Transmission Line and Accessories				
6.07.01	Electrical Transmission				
6.08	Power Capacitors				
6.08.01	Power Capacitors				
6.09	Frequency Converter				
6.09.01	Frequency Convertor				
6.10	Uninterruptable Power Supply (UPS) System				
6.10.01	Uninterruptable Power Supply Units				
6.11	Battery				
6.11.01	Batteries				
6.12	Neutral Earthing Resistor				
6.12.01	Neutral Earthing Resistors				
6.13	Distribution Board (Manufactured by Vendor)				
6.13.01	Distribution Board				
6.14	Electrical Network Management Control System				
6.14.01	Electrical Network Management Control Sys.				
6.15	Bus Duct				
6.15.01	Bus Duct				
6.16	Local Control Panel (Manufactured by Vendor)				
6.16.01	Elec/Pwr Comp - Haz Rated (Local Control Stations / Panels)				
6.17	Lighting and Accessories - Hazardous Area				

	Product Name	Company	Parent Company	Country Of Manufacturer	Remarks
6.17.01	Elec/Pwr Comp - Haz Rated (Ligthing Bulk Material)				
6.18	Distribution Board (Manufactured by Vendor) - Hazardous Area				
6.18.01	Elec/Pwr Comp - Haz Rated (Distribution Board)				
6.19	Junction Boxes (Manufactured by Vendor) - Hazardous Area				
6.19.01	Elec/Pwr Comp - Haz Rated (Jbs)				
6.20	Ring Main Unit- Medium and Low Voltage				
6.20.01	Elec/Pwr Comp (Ring Main Units)				
6.21	Cable - Submarine				
6.21.01	Submarine Cable				
6.22	Cable and Wire, High Voltage				
6.22.01	Cables & Wires				
6.23	Cable and Wire Termination Accessories, High Voltage				
6.23.01	Cables/Wires Access.				
6.24	Cable and Wire Termination Accessories, Cold Shrink				
6.24.01	Cables/Wires Access.				
6.25	Cable and Wire - Low Voltage				
6.25.01	Cables & Wires				
6.26	Cable - Heat Tracing System				
6.26.01	Heat Tracing Cable (Cable & Equipment)				
6.27	Cable - Heat Tracing				
6.27.01	Heat Tracing Cable				
6.28	Cable and Wire Accessories				
6.28.01	Cables/Wires Access.				
6.29	Cable Splicing				
6.29.01	Cable Splicing				
6.3	Cable Tray and Ladder				
6.30.01	Cables/Wires Access.				
6.31	Lighting Fittings				
6.31.01	Lighting Fittings				

	Product Name	Company	Parent Company	Country Of Manufacturer	Remarks
6.32	Lighting Junction Boxes				
6.32.01	Lamps /Lighting Access. (Junction Boxes)				
6.33	Lighting Switch and Socket - Non-Hazardous				
6.33.01	Lighting Accs.				
6.34	Earthing Material				
6.34.01	Elec/Pwr Comp				
6.35	Lightning Protection System				
6.35.01	Elec/Pwr Comp				
6.36	Cable / Wire Conduit, Duct, and Fittings				
6.36.01	Cables/Wires Access.				
6.37	Cable Trunking and Fittings				
6.37.01	Cables/Wires Access.				
6.38	Cathodic Protection System				
6.38.01	Cathodic Protection				
6.39	Cable Transit				
6.39.01	Cable Transits				
7.0	BUILDING SERVICES				
7.01	Mechanical Services				
7.01.01	Air Handling Units and Fan Coil Units				
7.01.02	Direct Expansion Air Conditioning Unit - Split AC Units, Multi Split AC Units, VRF & PACU				
7.01.03	Extract Fan				
7.01.04	Variable Air Volume (VAV) / Constant Air Volume (CAV) Box				
7.01.05	HVAC Accessories, Grille / Diffuser / Balancing Dampers / Louvres				
7.01.06	Fire / Smoke / Gas Dampers				
7.01.07	Sound Attenuator				
7.01.08	Liquid Chiller				
7.01.09	Cooling Tower				
7.01.10	Pipework - Chilled Water				

	Product Name	Company	Parent Company	Country Of Manufacturer	Remarks
7.01.11	Fittings - Chilled Water				
7.01.12	Fittings - Grooved				
7.01.13	Valves - Chilled Water				
7.01.14	Water Treatment Package - Chilled Water and Plumbing				
7.01.15	Circulating Pump + Pump sets - Chilled Water / Plumbing / Irrigation / Drainage				
7.01.16	Storage Tank - Water				
7.01.17	Hot Water Generator Package-over 150 Litres capacity				
7.01.18	Pipe and Fittings - Plumbing / Irrigation / Drainage / Refrigerant				
7.01.19	Valve - Plumbing / Irrigation / Drainage				
7.01.20	Floor Traps, Gullies and Roof Outlets				
7.01.21	Insulation - Thermal				
7.01.22	Isolator - Vibration				
7.02	Electrical Services				
7.02.01	Switchgear and MCC - Low Voltage				
7.02.02	Distribution Board - Low Voltage				
7.02.03	Lighting Distribution Boards				
7.02.04	Bus Duct - Medium and Low Voltage				
7.02.05	Cable and Wire - High and Medium Voltage				
7.02.06	Cable and Wire - Low Voltage				
7.02.07	Cable - Electric, Fire- / Heat-resistant				
7.02.08	Cable / Wire Accessory including Gland				
7.02.09	Isolator / Switch Fuse				
7.02.10	Socket Outlets Ex-proof				
7.02.11	Cable Gland				
7.02.12	Power Cable Glands				
7.02.13	Electrical Termination Components				
7.02.14	H.V. Cable Terminations				

	Product Name	Company	Parent Company	Country Of Manufacturer	Remarks
7.02.15	Uninterruptable Power Supply (UPS) - DC				
7.02.16	Luminaire				
7.02.17	Flood / Street Light				
7.02.18	Floodlights (Industrial)				
7.02.19	Lighting Control				
7.02.20	Lighting System - Emergency				
7.02.21	Lighting System - Specialty				
7.02.22	Motor Control Cabinet & Components - Vendor Manufactured				
7.02.23	Power Factor Correction Package				
7.03	ELV and ICT System				
7.03.01	Audio Amplifier				
7.03.02	Loudspeaker				
8.0	PIPELINE & UMBILICAL MATERIALS				
8.01	Induction Bends				
8.01.01	Induction Bends				
8.02	Umbilical and Accessories				
8.02.01	Umbilical & Accessories				
8.03	Sub-sea Ball Valve				
8.03.01	Sub Sea Ball Valves				
8.04	Swivel Flange				
8.04.01	Swivel Flanges				
8.05	Mechanical Connector				
8.05.01	Mechanical Connectors				
8.06	Piggy Back Strapping				
8.06.01	Piggy Back Strapping				
8.07	Pipe / Line Pipe - Carbon Steel				
8.07.01	Carbon Steel Pipe/Line Pipe				
8.08	Flange - Carbon Steel				

	Product Name	Company	Parent Company	Country Of Manufacturer	Remarks
8.08.01	Carbon Steel Flanges				
8.09	Barred Tee - Carbon Steel				
8.09.01	C. S. Barredtees				
8.1	Flow Tee - Carbon Steel				
8.10.01	C. S. Flow Tees				
8.11	Insulating Joint				
8.11.01	Insulating Joints				
8.12	Ball Valve				
8.12.01	Ball Valves Diameter >1 1/2"				
8.13	Pig Launcher / Receiver				
8.13.01	Pig Launching And Receiving Traps				
8.14	Pig Signal System				
8.14.01	Pig Signallers				
8.15	Pig Launcher / Reciever Interlock System				
8.15.01	Interlock System For Pig L / R				
8.16	Epoxy Powder - Fusion Bonded				
8.16.01	Fusion Bonded Epoxy Powder				
8.17	Anode - Sacrificial				
8.17.01	Sacrificial Anodes				
9.0	STRUCTURAL MATERIALS				
9.01	Anode - Sacrificial, Marine				
9.01.01	Anodes				
9.02	Bridge Bearing				
9.02.01	Bridge Bearings (Teflon)				
9.03	Boat Landing Rub Strip				
9.03.01	Boatlanding Rub Strips				
9.04	Marine Bollard				
9.04.01	Marine Bollards				
9.05	Barge Bumper System				

	Product Name	Company	Parent Company	Country Of Manufacturer	Remarks
9.05.01	Barge Bumper Systems				
9.06	Marine Fender				
9.06.01	Marine Fenders				
9.07	Shock Cells				
9.07.01	Shock Cells				
9.08	Rubber Diaphragm Leg Closures				
9.08.01	Rubber Diaphragm Leg Closures				
9.09	Bolts & Nuts (Fasteners)				
9.09.01	Bolts & Nuts, OFFSHORE				
9.10	Gratings				
9.10.01	Gratings				
10.0	ARCHITECTURAL				
10.01	Door - Blast-Resistant				
10.01.01	Blast Resistant Doors				
10.02	Door - Fire				
10.02.01	Fire Doors				
10.03	Submarine Composite (Power&FO) Cable				
10.03.01	Submarine Composite (Power&Fo) Cable				
11.0	ROTATING EQUIPMENT				
11.01	Turbine Generator Package				
11.01.01	Turbine Generator				
11.02	Emergency Diesel Generator Package				
11.02.01	Emergency Diesel Generator				
11.03	Fire Water Pump Package				
11.03.01	Fire Water Pump/Package				
11.04	Pump Package				
11.04.01	Centrifugal Pump - Horizontal, API 610				
11.04.02	Centrifugal Pump - Horizontal, General Utility, Non-API				
11.04.03	Centrifugal Pump - Horizontal / Vertical, Large Capacity				

	Product Name	Company	Parent Company	Country Of Manufacturer	Remarks
11.04.04	Centrifugal Pump - Package (High-Speed, Integrally Geared)				
11.04.05	Centrifugal Pump - Self-Priming				
11.04.06	Centrifugal Pump - Vertical Turbine, API 610, Process				
11.04.07	Centrifugal Pump - Vertical Line Shaft				
11.04.08	Centrifugal Pump - Electric, Submersible				
11.04.09	Centrifugal Pump - Vertical, Sump				
11.04.10	Centrifugal Pump - Vertical, In-Line				
11.04.11	Centrifugal Pump - Vertical, Submersible, API 610, Cryogenic				
11.04.12	Centrifugal Pump - Sealless (Glandless), Magnetic Drive				
11.04.13	Centrifugal Pump - Teflon-Lined				
11.04.14	Positive Displacement Pump - Reciprocating, API 674, Process				
11.04.15	Positive Displacement Pump - Reciprocating, API 674, Metering / Dosing				
11.04.16	Positive Displacement Pump - Diaphragm, API 675, Metering / Chemical Injection				
11.04.17	Positive Displacement - Rotary, API 676, Process				
11.04.18	Vacuum Pump - Liquid Ring, API 681, Process				
11.04.19	Jet Pump - Process / Water				
11.04.20	Fire Water Pump				
11.04.21	Water Pump Package				
11.04.22	Eccentric Screw Pumps/ Progressive Cavity Pumps				
11.04.23	Pumps, Sulfur				
11.04.24	Recip - Air/gas driven pump				
11.05	Compressor - Centrifugal, API 617, Process				
11.05.01	Compressor - Centrifugal, API 617, Process				
11.06	Compressor - Centrifugal, API 672, Air / Inert Gas				
11.06.01	Compressor - Centrifugal, API 672, Air / Inert Gas				
11.07	Turbo-Expander				
11.07.01	Turbo-Expander				
11.08	Compressor - Reciprocating, API 618, Process				

	Product Name	Company	Parent Company	Country Of Manufacturer	Remarks
11.08.01	Compressor - Reciprocating, API 618, Process				
11.09	Compressor - Reciprocating, Instrument Air				
11.09.01	Compressor - Reciprocating, Instrument Air				
11.1	Compressor - Reciprocating, API 11				
11.10.01	Compressor - Reciprocating, API 11				
11.11	Compressor - Rotary Screw, API 619, Process				
11.11.01	Compressor - Rotary Screw, API 619, Process				
11.12	Compressor - Rotary Screw, Instrument Air				
11.12.01	Compressor - Rotary Screw, Instrument Air				
11.13	Compressor Package - Instrument Air				
11.13.01	Air Compressor Package				
11.14	Compressor Package - Breathing Air				
11.14.01	Breathing Air Compressor Package				
11.15	Compressor - Rotary Vane, Process / Air				
11.15.01	Compressor - Rotary Vane, Process / Air				
11.16	Compressor - Liquid Ring, Process / Air				
11.16.01	Compressor - Liquid Ring, Process / Air				
11.17	Compressor - Diaphragm, Process / Air				
11.17.01	Compressor - Diaphragm, Process / Air				
11.18	Liquid Expander				
11.18.01	Liquid Expander				
11.19	Compressor Shaft Sealing System				
11.19.01	Compressor Shaft Sealing System - Mechanical				
11.19.02	Compressor Shaft Sealing System - Dry Gas				
11.2	Mixer (Agitator) - Side Entry				
11.20.01	Mixer [Agitator]				
11.21	Mixer (Agitator) - Top Entry				
11.21.01	Mixer [Agitator]				
11.22	Mixer Shaft Sealing System				

	Product Name	Company	Parent Company	Country Of Manufacturer	Remarks
11.22.01	Mixer Shaft Sealing System	coupling			
11.23	Gas Turbine - Mechanical Drive, Prime Mover				
11.23.01	Prime Mover				
11.24	Steam Turbine - General Purpose, Prime Mover				
11.24.01	Prime Mover				
11.25	Diesel Engine - Prime Mover, Mechanical drive				
11.25.01	Prime Mover				
11.26	Gas Engine - Prime Mover, Mechanical drive				
11.26.01	Prime Mover				
11.27	Machinery Drive - Mechanical Gear Box				
11.27.01	Machinery Drive - Mechanical Gear Box				
11.28	Machinery Drive - Variable Speed, Fluid Coupling				
11.28.01	Machinery Drive - Variable Speed, Fluid Coupling				
11.29	Machinery Drive Coupling - Flexible Spacer				
11.29.01	Machinery Drive Coupling - Flexible Spacer				
11.3	Machinery Drive Coupling - Magnetic				
11.30.01	Machinery Drive Coupling - Magnetic				
11.31	Coupling				
11.31.01	Couplings				
11.32	Turbine, Steam, Special Purpose				
11.32.01	Turbine, Steam, Special Purpose				
11.33	Turbine, Steam, Generator				
11.33.01	Turbine, Steam, Generator				
12.0	STRUCTURAL STEEL PLATES AND TABULARS				
12.01	Structural Steel				
12.01.01	Structural Steel Plates				
12.02	Seamless and SAW/Rolled Tubular Products				
12.02.01	Seamless & Saw/Rolled Tubular Products				
12.03	Hot Rolled Section				

Product Name

Company

Parent Company

**Country Of
Manufacturer**

Remarks

12.03.01

Hot Rolled Section