

PML

Preferred
Manufacturers
List



PML Products and Categories



Become a QatarEnergy Preferred Manufacturer

QatarEnergy's Project Engineering and Procurement Services Directorate persistently seek new sources of materials, equipment, system and packages for its capital projects.

We pride ourselves on the knowledge, skill, experience, and customer commitment our manufacturers and contractors bring to every project. We seek professional organizations that can meet these parameters and grow their competence jointly with us on increasing challenging projects. We strive to give fair and equal treatment to all, ensuring a level field of competition and adhering to the highest ethical standards in the industry.

To meet our needs as described above, we look for manufacturers who have an interest to provide the products listed in this booklet.

If your product falls within this list, you may register with us as per the instructions available on QatarEnergy official website by filling the PML Registration Form and email to qpml@qp.com.qa along with all necessary documentation listed in the form.

If you have questions or need more information, you can email us at: qpml@qatarenergy.qa

1.0 MECHANICAL MATERIALS

Product Code Product Name

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	Filter Separator / Coalescer
1.01.07	Process Filter
1.01.08	Fired Heater
1.01.09	Hot Oil Units
1.01.10	Burners
1.01.11	Electro-chlorination Units
1.01.12	Flare Package
1.01.13	Sewage Treatment Plant / Package
1.01.14	Instrument Air Dryer
1.01.15	Steam Desuperheater
1.01.16	Deaerator - Boiler Water (Ion Exchange-Type)
1.01.17	Produced Water Treatment Package
1.01.18	Boiler
1.01.19	DM Water Package
1.01.21	Fuel Gas Conditioning Package
1.01.22	Waste Heat Recovery Units (WHRU)
1.01.23	Water Maker (Reverse Osmosis) Package

1.02 Vessels

1.0 MECHANICAL MATERIALS

Product Code Product Name

- 1.02.01 Pressure Vessel and Column (≤ 38 mm thickness, CS, LAS & Austenitic SS)
- 1.02.02 Pressure Vessel and Column (thickness > 38 & ≤ 75 mm, CS, LAS & Austenitic SS)
- 1.02.03 Pressure Vessel and Column (> 75 mm thickness, all materials, Solid & Cladded, Sour and Non-sour)
- 1.02.04 Heat Exchanger (Shell and Tube)
- 1.02.05 Heat Exchanger (Brazed Aluminum)
- 1.02.06 Heat Exchanger (Air-Cooled/Air Fin Cooled)
- 1.02.07 Heat Exchanger (Plate & Frame type)
- 1.02.08 Separator (3-phase including Process design & Internals)
- 1.02.10 FRP Vessels/Tanks
- 1.02.11 Heat Exchanger (Welded Plate -Block Type) (All Materials)
- 1.02.12 Heat Exchanger (Printed Circuit)
- 1.02.13 Pressure Vessel and Column (thickness < 75 mm, other CRA (Solid & Cladded))

1.03 Air Coolers

- 1.03.01 Wet Air Coolers (Cooling Towers)

1.04 Vessel mounted equipment

- 1.04.01 Vessel Closure (Quick Opening Closure for Vessel)
- 1.04.02 Tank Gauge Hatch (Emergency Relief M/H Cover)
- 1.04.03 Tank Strapping/calibration
- 1.04.04 Tank Flame Arrestor

1.05 Tanks

- 1.05.01 Fixed Roof Storage Tank Dia < 25 m
- 1.05.02 Fixed Roof Storage Tank Dia > 25 m

1.0 MECHANICAL MATERIALS

Product Code Product Name

1.05.03 Floating Roof Storage Tank

1.06 Tank Appurtenance

1.06.01 Floating Roof Tank Roof Seal

1.06.02 Floating Roof Tank Roof Drain

1.06.03 Internal Floating Cover for IFR Tank

1.06.04 Geodesic Dome IFR Tank Roof (Aluminium)

1.07 Vessel & Tank Plate

1.07.01 Pressure Vessel and Tank Plate

1.08 Column Internals (Tray / Packings)

1.08.01 Column Internals (Tray / Packings)

1.09 Incinerator Package

1.09.01 Incinerator Package

1.10 Static Mixers

1.10.01 Static Mixer

1.11 Effluent Water Treatment Package

1.11.01 Effluent/Oily Water Treatment Packages

1.12 Loading Arms

1.12.01 Marine (Loading Arms)

1.12.02 Truck (Loading Arms)

1.13 Crane

1.13.02 Pedestal Crane

PML Products and Categories



1.0 MECHANICAL MATERIALS

Product Code Product Name

1.13.03 Goliath / Gantry / Jib Crane

1.14 Hoist

1.14.01 Manual / Pneumatic Industrial Hoist

1.14.02 Electric Industrial Hoist

1.16 Tank Vent / Pressure Vacuum

1.16.01 Tank Vent / Pressure Vacuum Valve

1.17 Cathodic Protection System

1.17.01 Cathodic Protection

1.17.02 Anode - Sacrificial, Marine

1.19 Gangways

1.19.01 Marine Access Gangways

2.0 PIPING MATERIALS

Product Code Product Name

2.01 Valves

2.01.01	Gate Valves - CS & LAS ($\leq 100\text{NB}$, $\leq 600\#$); 150NB-300NB, $\leq 300\#$)
2.01.02	Gate Valves - CRA (SS, DSS, SDSS, etc.)
2.01.03	Gate Valves - CS & LAS (all other sizes and ratings not covered under 2.01.01)
2.01.04	Globe Valves - CS & LAS ($\leq 100\text{NB}$, $\leq 600\#$)
2.01.05	Globe Valves - CRA (SS, DSS, SDSS, etc.)
2.01.06	Globe Valves - CS & LAS (all other sizes and ratings not covered under 2.01.04)
2.01.07	Butterfly Valves - Centreline ($\leq 600\text{NB}$)
2.01.08	Butterfly Valves - Centreline ($>600\text{NB}$)
2.01.09	Butterfly Valves - Double Offset ($\leq 600\text{NB}$)
2.01.10	Butterfly Valves - Double Offset ($>600\text{NB}$)
2.01.11	Butterfly Valves - Triple Offset
2.01.12	Ball Valves - CS & LAS ($\leq 100\text{NB}$, $\leq 600\#$); 150NB-300NB, $\leq 300\#$)
2.01.13	Ball Valves - CRA (SS, DSS, SDSS, etc.), $\leq 300\#$
2.01.14	Ball Valves - CRA (SS, DSS, SDSS, etc.), $> 300\#$
2.01.15	Ball Valves - CS & LAS (all other sizes and ratings not covered under 2.01.12)
2.01.16	Check Valves - CS & LAS
2.01.17	Check Valves - CRA (SS, DSS, SDSS, etc.)
2.01.18	Plug Valves
2.01.19	Through-Conduit Valves
2.01.20	Instrument Isolation valves (Monoflanges - Integral SBB/DBB, Slimline SBB/DBB)
2.01.21	Choke Valve
2.01.22	Safety/Relief Valves
2.01.23	Breather Valves

2.0 PIPING MATERIALS

Product Code Product Name

- 2.01.24 Rupture Disc
- 2.01.25 Ni-Ni Alloys Valves (All types & sizes)
- 2.01.26 Cu-Cu Alloys Valves (All types & sizes)
- 2.01.27 Double Block and Bleed Valves (All types)
- 2.01.28 Axial Check Valves
- 2.01.29 Air Valves - ARV, VB, CAV (All sizes)
- 2.01.30 All Valve types/sizes for FW service (UL/FM Approved)

2.02 Valve Interlocks (Mechanical)

- 2.02.01 Valve Interlocks

2.03 Pipes & Fittings (Ni-Ni Alloys)

- 2.03.01 Ni-Ni Alloys: Pipes, Tubes, Fittings & Flanges (All Sizes)

2.04 Pipes & Fittings (Cu-Cu Alloys)

- 2.04.01 Cu-Cu Alloys: Pipes, Tubes, Fittings & Flanges (All Sizes)

2.05 Access Fittings (Coupons, Probes, Injection Fittings, probes etc)

- 2.05.01 Access Fittings (Coupons, Probes, Injection Fittings, etc.)

2.06 Piping & Tubing

- 2.06.01 Pipes & Tubes (Seamless/Welded) CS/LAS
- 2.06.02 Pipes & Tubes (Seamless/Welded) CRA (SS/DSS/SDSS/6Mo, etc.)
- 2.06.03 Pipes & Tubes (Seamless/Welded) CRA (Titanium)

2.07 Pipe Fittings

- 2.07.01 Pipe Fittings - CS/LAS (All sizes)
- 2.07.02 Pipe Fittings - CRA (SS/DSS/SDSS/6Mo, etc. - All sizes)

2.0 PIPING MATERIALS

Product Code Product Name

2.07.03 Pipe Fittings - CRA (Titanium, etc. - All sizes)

2.08 Forged Flanges, Flanged Fittings & Reinforced Branch Connections

2.08.01 Forged Flanges, Flanged Fittings & Reinforced Branch Connections - CS/LAS

2.08.02 Forged Flanges, Flanged Fittings & Reinforced Branch Connections - CRA
(SS/DSS/SDSS/6Mo, etc.)

2.08.03 Forged Flanges, Flanged Fittings & Reinforced Branch Connections - CRA (Titanium, etc.)

2.09 Non-metallic Pipes and Fittings

2.09.01 GRP Piping (GRE, GRV, GRUP etc.)

2.09.02 HDPE Pipes, Flanges and Fittings

2.09.03 PVC Pipes, Flanges and Fittings

2.10 Steam Traps & Strainer

2.10.01 Steam Traps

2.10.02 Strainer

2.11 Steam Eductor /Ejectors

2.11.01 Steam Eductor / Ejectors

2.12 Gaskets & Packing

2.12.01 Gaskets / Packings

2.13 Insulation Gaskets

2.13.01 Insulation Gasket Set

2.14 Special Pipe Supports

2.14.01 Spring Supports, Rigid Struts, Slide Plates, etc.

2.0 PIPING MATERIALS

Product Code Product Name

2.15 Expansion Joints

2.15.01 Expansion Joints - Metallic

2.15.02 Expansion Joints - Non-Metallic

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

2.20 Hub Connectors

2.20.01 Hub Connectors

3.0 INSTRUMENT MATERIALS

Product Code Product Name

3.03 Pig Signalers

3.03.01 Pig Signalers

3.04 Terminal -Wiring

3.04.01 Terminals/Terminal Block

3.08 Cable Ladder & Tray

3.08.01 Cable Ladder & Tray

3.10 Pressure & DP Transmitters

3.10.01 Pressure & DP Transmitters

3.12 Pressure & DP Gauges

3.12.01 Pressure & DP Gauges

3.14 Pressure Pilots (Block & Bleed)

3.14.01 Pressure Pilots (Block & Bleed)

3.15 Pressure Regulator

3.15.01 Pressure Regulator

3.16 Orifice Plate

3.16.01 Orifice/Restriction Orifice Plate

3.16.02 Integral Orifice Flow Element (<2 inch)

3.16.03 Venturis

3.16.04 V-Cone

3.17 Meters

3.17.01 Mass Flow Meter - Coriolis

3.0 INSTRUMENT MATERIALS

Product Code Product Name

3.17.02	Vortex Flow Meter
3.17.03	Magnetic Flow Meter
3.17.04	Ultrasonic Flow Meter
3.17.05	Turbine Flow Meter
3.17.06	Pitot Tube - Flow, Averaging
3.17.07	Thermal Mass Flow Meter
3.17.08	Positive Displacement (PD) Flow Meter
3.17.09	Multiphase Flow Meter
3.17.10	Variable Area Flow Meter (Rotameter)
3.17.11	Wet Gas Flowmeter

3.18 Metering (Custody or Fiscal Transfer) Package with Prover

3.18.01	Metering (Custody or Fiscal Transfer) Package with Prover
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3.21 Temperature Transmitter (SMART Electronic Type)

3.21.01	Temperature Transmitter (SMART Electronic Type)
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3.23 Temperature Gauge

3.23.01	Temperature Gauge
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3.24 Thermowell

3.24.01	Thermowell
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3.25 Temperature Elements (RTD, T/C)

3.25.01	Temperature Elements (RTD, T/C)
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3.27 Level Switch (Float Type)

3.27.02	Level Switch (Vibrating Blades)
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3.0 INSTRUMENT MATERIALS

Product Code Product Name

3.28 Level Gauge (Magnetic)

3.28.01 Level Gauge (Magnetic)

3.29 Level Gauge Glasses & Cocks

3.29.01 Level Gauge Glasses & Cocks

3.30 Level Transmitter (Displacer Type)

3.30.01 Level Transmitter (Displacer Type)

3.31 Tank Gauging System

3.31.01 Tank Gauging System

3.32 Level Radar Level Transmitter

3.32.01 Level Radar Level Transmitter

3.33 Ultrasonic Level Transmitter

3.33.01 Ultrasonic Level Transmitter

3.34 Capacitance Type Level Transmitter

3.34.01 Capacitance Type Level Transmitter

3.35 Distributed Control System

3.35.01 Distributed Control System

3.36 Programmable Logic Controller (PLC)

3.36.01 Programmable Logic Controller (PLC)

3.37 Telemetry System

3.37.01 Telemetry System

3.0 INSTRUMENT MATERIALS

Product Code Product Name

3.38 Safety (ESD / F&G) System

3.38.01 Safety (ESD / F&G) System

3.39 Analyzer Packages (all inclusive)

3.39.01 Analysers - Chromatograph
3.39.02 Analysers - Oxygen
3.39.03 Analysers - Ph
3.39.04 Analysers - Moisture
3.39.05 Analysers - Density
3.39.06 Analysers - Chlorine
3.39.07 Analysers - Conductivity
3.39.08 Analysers - Water in Oil
3.39.09 Basic Sediment and Water (BS&W)
3.39.10 Analysers - Oil-In-Water
3.39.11 Analysers - Turbidity
3.39.12 Analysers - Water Quality
3.39.13 Analysers - Emission Gas
3.39.14 Analysers - Air Quality
3.39.15 Analysers - Weather & Climate
3.39.16 Analysers - Hydrogen

3.40 Valve

3.40.01 Control Valve - General Service
3.40.04 Actuated Choke Valves
3.40.05 Valve - Shutdown

3.0 INSTRUMENT MATERIALS

<i>Product Code</i>	<i>Product Name</i>
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|---------|----------------------------------------------|
| 3.40.06 | Solenoid Valves |
| 3.40.07 | Process anti Surge Valves |
| 3.40.08 | IRCD (Injection Rate Control Devices) Valves |
| 3.40.09 | Control Valves for severe conditions |

3.41 Fire and Gas Devices

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|---------|----------------------------------------------|
| 3.41.01 | Fire, Safety, Environ / Detectors & Controls |
| 3.41.02 | Break glass PB |
| 3.41.03 | Detector-Flame |
| 3.41.04 | Addressable Fire Detection Systems |
| 3.41.05 | Gas Detectors |
| 3.41.06 | Smoke & Heat Detectors |
| 3.41.07 | Linear Heat Detection Cable |
| 3.41.08 | Manual Call Point |
| 3.41.09 | Beacon / Horn |
| 3.41.10 | High-Sensitivity, Smoke Detector (HSSD) |
| 3.41.11 | Fusible Plugs |

3.42 Burner Management System

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| 3.42.01 | Flame Monitor & Burner Management |
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3.44 Anti-Surge Control System -Compressor

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| 3.44.01 | Anti-Surge Control |
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3.45 Vibration Monitoring

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| 3.45.01 | Vibration Monitoring |
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3.0 INSTRUMENT MATERIALS

Product Code Product Name

3.46 Valve Actuator

- 3.46.01 Pneumatic - Emergency Shutdown (ESD)/ Blowdown
- 3.46.02 Hydraulic - Emergency Shutdown (ESD)/ Blowdown
- 3.46.03 Control Valve Actuators - Electric
- 3.46.04 On-Off Actuators - Electric - Standard

3.47 Single Loop Controller

- 3.47.01 Single Loop Controller

3.49 Annunciator

- 3.49.01 Annunciator

3.52 Electro-Pneumatic Positioner & I/P Transducers

- 3.52.01 Electro-Pneumatic Positioner & I/P Transducers

3.54 Junction Boxes/Pushbuttons and Switches

- 3.54.01 Junction Boxes/Pushbuttons And Switches

3.56 Control & Marshalling Panels

- 3.56.01 Control & Marshalling Panels
- 3.56.02 Control & Marshalling Panels (Ex'd'/Ex'de')

3.57 Cables & Wires

- 3.57.01 Cables & Wires

3.58 Tubing

- 3.58.01 Tubing

3.60 Cable Gland

3.0 INSTRUMENT MATERIALS

Product Code Product Name

3.60.01 Cable Glands

3.61 Manifold - Instrument Valve

3.61.01 Instrument Valves, Manifolds

3.62 Air Filter Regulator

3.62.01 Air Filter Regulator

3.63 Tubing Fittings

3.63.01 Tubing Fittings

3.64 Interface Devices / Barriers

3.64.01 Interface Devices / Barriers

3.70 High-Integrity Pressure Protection System Using Axial, Fast- Acting Valves

3.70.01 High-Integrity Pressure Protection System Using Axial, Fast- Acting Valves

3.71 Wellhead Control Panel

3.71.01 Wellhead Control Panel

3.73 Nucleonic level instruments (density profiler)

3.73.01 Nucleonic level instruments (density profiler)

3.74 Corrosion Monitoring Transmitter

3.74.01 Sand Monitoring equipment

3.74.02 Internal Corrosion Monitoring equipment

4.0 SAFETY & SURVIVAL EQUIPMENT

Product Code Product Name

4.01 Foam Concentrate

- 4.01.01 Foam Concentrate
- 4.01.02 Foam Skid

4.02 Foam Monitor

- 4.02.01 Foam Monitor

4.03 Foam Proportioner

- 4.03.01 Foam Proportioner
- 4.03.02 Foam System

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 (with QCD Approval)
- 4.05.02 Fire Blankets

4.06 Life Jacket

- 4.06.01 Life Jacket (with SOLAS Approval)

4.07 Stretcher

- 4.07.01 Stretcher

4.08 Life Buoy

- 4.08.01 Life Buoy (with SOLAS Approval)
- 4.08.02 Flotation Survival Systems

4.0 SAFETY & SURVIVAL EQUIPMENT

Product Code Product Name

4.09 Fire Safety Equipment

4.09.01 Fire Safety Equipment

4.10 Life Raft

4.10.01 Life Raft (with SOLAS Approval)

4.11 Survival Craft/ Escape Capsule

4.11.01 Freefall TEMP SC

4.11.02 Davit Launched TEMP SC

4.11.03 Life Boat

4.11.04 Life Jacket

4.11.05 Life Buoy

4.11.06 Lifesaving Equipment Miscellaneous

4.11.07 Wave Off Light, Helicopter

4.12 Oil Spill Containment System

4.12.01 Oil Spill Containment System

4.13 Foam Branch Nozzle

4.13.01 Foam Branch Nozzle

4.14 Fire Hydrant

4.14.01 Fire Hydrant

4.15 Fire Suppression

4.15.01 Gaseous Extinguishant Systems

4.15.02 Water Mist Systems

4.0 SAFETY & SURVIVAL EQUIPMENT

Product Code Product Name

4.16 Deluge System-Skid Mounted

4.16.01 Deluge System-Skid Mounted

4.17 Sprinkler System

4.17.01 Sprinkler System

4.18 Breathing Apparatus / Sets

4.18.01 Breathing Apparatus / Sets (with QCD Approval)

4.18.02 Air Breathing Package

4.18.03 Breathing Apparatus / Emergency Life Saving

4.19 Passive Fire Protection

4.19.01 Passive Fire Protection Coatings

4.19.02 Fire Jackets for Valves

4.20 Firewater Tanks

4.20.01 Firewater Tanks

4.21 Helideck DIFFS

4.21.01 Helideck DIFFS

4.22 Medical Clinic

4.22.01 Patient related transportation equipment (Eg. Stretchers, head & neck braces, wheelchairs, crutches)

4.22.02 Patient Monitoring & testing equipment

4.22.03 Patient Treatment equipment

4.22.04 Medical storage and waste disposal equipment

5.0 TELECOMMUNICATION EQUIPMENT

Product Code Product Name

5.01 Fibre Optic Cables & Accessories

- 5.01.01 Fibre Optic Cables
- 5.01.02 Fibre Optic Cables - Subsea
- 5.01.03 Fibre splice boxes / Enclosures

5.02 Media Converters / Industrial Switches

- 5.02.01 Media Converters / Industrial Switches
- 5.02.02 Industrial Data Network - Router

5.03 Optical / Fibre Transmission Systems - DWDM / SDH / OTN

- 5.03.01 Optical / Fibre Transmission Systems

5.04 Telecom Cabinet / Racks

- 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

5.0 TELECOMMUNICATION EQUIPMENT

<i>Product Code</i>	<i>Product Name</i>
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5.05.11	Radar
5.05.12	Navigation security system (GMDSS)
5.05.13	Antenna
5.05.14	Pylon/Mast

5.06 Meteorological / Weather Monitoring System

5.06.01	Meteorological / Weather Monitoring System
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5.07 Emergency communication Equipment

5.07.01	Public Address / General Alarm Systems
5.07.02	PA/GA- Loud speakers
5.07.03	PA/GA - Beacons
5.07.04	PA/BGM - Audio Amplifiers (for Non O & G)
5.07.05	PA/BGM - Loud speakers (for Non O & G)
5.07.06	Acoustic Hoods & Booths
5.07.07	Hazardous Area Telephones / Field Telephones
5.07.08	Satellite telephone set
5.07.09	Ship To Shore / ESD signal transmission

5.08 Closed-Circuit Television (CCTV) System

5.08.01	Closed Circuit Television Equipment
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5.09 Access Control System

5.09.01	Access Control System
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5.10 Security Alarm Monitoring Systems

5.10.01	Security Alarm Monitoring Systems
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5.0 TELECOMMUNICATION EQUIPMENT

Product Code Product Name

5.11 Boom barriers, Turnstile, Road Blockers

5.11.01 Traffic Barriers

5.12 Clock Synchronization / GPS Clock

5.12.01 GPS Clock / Antenna

5.13 Video Wall Solutions

5.13.01 Video Wall Solutions

5.14 Building Management System

5.14.01 Building Management System

5.16 Control room console - Telecom Systems

5.16.01 Control Room Consoles

5.17 Transmission - Satellite station

5.17.01 Transmission - Satellite station

5.18 Miscellaneous navigation AD/metocean

5.18.01 Navigation Aid - Gyrocompass Navigation Aid System

5.19 Entertainment

5.19.01 Entertainment - TVRO Satellite Kit

5.20 Telecom Cables

5.20.01 Telecom Cables

6.0 ELECTRICAL MATERIALS

Product Code Product Name

6.01 Transformer

- 6.01.01 Power Transformer (Non-Hazardous area)
- 6.01.02 Distribution Transformer (Non-Hazardous area)
- 6.01.03 Distribution Transformer (Hazardous area)
- 6.01.04 Power Transformer (Hazardous area)

6.02 Switchgear

- 6.02.01 High Voltage Switchgear (Non-Hazardous area)
- 6.02.02 Low Voltage Switchgear & Motor Control Centre (Non-Hazardous area)
- 6.02.03 LV Switchgear (Hazardous area)
- 6.02.04 Ring Main Unit

6.03 Variable Speed Drive

- 6.03.01 LV Variable Frequency Drive
- 6.03.02 HV Variable Frequency Drive

6.04 Electrical Motor

- 6.04.01 Electrical Motor - HV and LV (Non-Hazardous area)
- 6.04.02 Electrical Motor - HV and LV (Hazardous area)

6.05 Protection Relays

- 6.05.01 Protection Relays

6.06 Overhead Transmission Line and Accessories

- 6.06.01 Overhead Transmission Line & Accessories

6.07 Capacitors

- 6.07.01 Power Capacitors - HV

6.0 ELECTRICAL MATERIALS

Product Code Product Name

6.07.02 Power Capacitors - LV

6.08 Uninterruptable Power Supply (UPS) System

6.08.01 UPS (Non-Hazardous area)

6.08.02 UPS (Hazardous Area)

6.09 Battery

6.09.01 Battery

6.10 Neutral Earthing Resistors

6.10.01 Neutral Earthing Resistors

6.11 Distribution Board

6.11.01 Distribution Board (Non-Hazardous area)

6.11.02 Distribution Board (Hazardous area)

6.12 Electrical Network Management Control System

6.12.01 Electrical Network Management Control System

6.13 Bus Duct

6.13.01 Bus Duct

6.14 Lighting

6.14.01 Lighting (Hazardous area)

6.14.02 Lighting (Non-Hazardous area)

6.15 Junction Boxes

6.15.01 Power Junction Box (Hazardous area)

6.15.02 Power Junction Box (Non-Hazardous area)

6.0 ELECTRICAL MATERIALS

Product Code Product Name

- 6.15.03 Lighting Junction Box (Hazardous area)
- 6.15.04 Lighting Junction Box (Non-Hazardous area)

6.16 Electrical Cable

- 6.16.01 HV Cable
- 6.16.02 LV Cable
- 6.16.03 Submarine Cable

6.17 Heat Tracing System

- 6.17.01 Heat Tracing (Cable & Equipment)

6.18 Cable Gland

- 6.18.01 Cable Gland

6.19 Cable Ladder, Tray & Trunking

- 6.19.01 Cable Supports (Metallic)
- 6.19.02 Cable Supports (GRP)

6.20 Earthing Material & Lightning Protection System

- 6.20.01 Earthing & Lightning

6.21 Electrical Miscellaneous Items

- 6.21.01 Termination Kit
- 6.21.02 Cable Transit
- 6.21.03 Remote Control Unit (Non-Hazardous area)
- 6.21.04 Remote control unit (Hazardous area)
- 6.21.05 Socket/Switch (Non-Hazardous area)
- 6.21.06 Socket/Switch (Hazardous area)

6.0 ELECTRICAL MATERIALS

<i>Product Code</i>	<i>Product Name</i>
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6.21.07	Isolator/Switch Fuse
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6.21.08	Lighting Control
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6.22 Solar Panel

6.22.01	Solar Panel (Hazardous area)
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6.22.02	Solar Panel (Non-Hazardous area)
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6.23 Generator

6.23.01	HV Generator (Non-Hazardous area)
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6.23.02	LV Generator (Non-Hazardous area)
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6.24 Navigational Aids

6.24.01	Navigational Aids
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7.0 BUILDING SERVICES

Product Code Product Name

7.01 Mechanical Services

7.01.01	Air Handling Equipment and Units
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
7.01.11	Fittings - Chilled Water
7.01.13	Valves - Chilled Water
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 (Hot and Cold/ Potable water)/Refrigerant/Irrigation
7.01.19	Valve - Plumbing / Irrigation / Drainage
7.01.21	Thermal Insulation (HVAC and Plumbing)

8.0 PIPELINE & UMBILICAL MATERIALS

Product Code Product Name

8.01 Induction Bends

- 8.01.01 Bends (Hot Induction) - Carbon Steel
- 8.01.02 Bends (Hot Induction) - CRA (Clad & Solid), Duplex, Superduplex, SS316

8.02 Umbilical & Accessories

- 8.02.01 Umbilical & Accessories

8.03 Mechanical Connector

- 8.03.01 Mechanical Connectors

8.04 Piggy Back Strapping

- 8.04.01 Piggy Back Strapping

8.05 Pipe/Line Pipe

- 8.05.01 Carbon Steel - Seamless
- 8.05.02 Carbon Steel - Welded (LSAW)
- 8.05.03 Carbon Steel - Welded (HFIW) - for Onshore & Non-sour service
- 8.05.04 CRA (Solid- Seamless)
- 8.05.05 CRA (Mechanically Lined Pipe) - Seamless
- 8.05.06 CRA (Metallurgical Bonded Clad Pipe) - Seamless
- 8.05.07 CRA (Weld-Overlay Pipe)
- 8.05.09 CRA (Solid - Welded)
- 8.05.10 CRA (Mechanically Lined Pipe) - LSAW
- 8.05.11 CRA (Metallurgical Bonded Clad Pipe) - LSAW

8.06 Flanges

- 8.06.01 Carbon Steel Flanges & Main Forgings Material (Hang-Off Collar, Transition Piece)

8.0 PIPELINE & UMBILICAL MATERIALS

Product Code Product Name

- 8.06.02 Swivel Flanges
- 8.06.03 CRA Flanges & Main Forgings Material (Hang-Off Collar, Transition Piece)

8.07 Pipeline Tee

- 8.07.01 Barred TEE
- 8.07.02 Sphere TEE/Flow TEE
- 8.07.03 Hot Tap Split TEE
- 8.07.04 Specialty forgings (stress-joint, taper-joint)
- 8.07.05 Wye

8.08 Monolithic insulating joint/ Monolithic isolating joint

- 8.08.01 Monolithic insulating joint/Monolithic isolating joint

8.09 Ball Valve

- 8.09.01 Ball Valves
- 8.09.02 Sub-sea Ball Valves

8.10 Pig Launcher / Receiver

- 8.10.01 Pig Launching And Receiving Traps (Pipeline ISO code / Pressure Vessel ASME code)
- 8.10.02 Interlock System For Pig L / R

8.11 Pig Signal System

- 8.11.01 Pig Signallers (non intrusive)

8.12 Pipeline Coating/Lining

- 8.12.01 Coating Applicator (FBE,3LPE,3LPP,HDPE,Internal flow coating)
- 8.12.02 Lining Applicator (EPDM, Neoprene, Splash zone lining)
- 8.12.03 FBE Powder

8.0 PIPELINE & UMBILICAL MATERIALS

Product Code Product Name

- 8.12.04 P/L Insulation Materials
- 8.12.05 Concrete Coating (CWC)

8.13 Anode - Sacrificial

- 8.13.01 Sacrificial Anodes

8.14 Plates for Line Pipe

- 8.14.01 Plates manufacturer for Carbon Steel LSAW line pipe
- 8.14.02 Plates manufacturer for CRA LSAW line pipe

8.15 Pipeline Repair Material

- 8.15.01 Repair Clamps
- 8.15.02 Leak Seal System
- 8.15.03 Composite Repair System

8.16 Composite Pipes

- 8.16.01 Composite Pipes (HDPE-PE100, GRE, RTPE,...)
- 8.16.02 Accessories (fittings) for Composite Pipeline

8.17 Flexible Pipeline (unbonded)

- 8.17.01 Unbonded Flexible Pipeline

8.18 Flexible Pipeline/Hoses (bonded)

- 8.18.01 Bonded Flexible Pipeline/Hoses

9.0 OFFSHORE/MARINE MISCELLANEOUS ITEMS

Product Code Product Name

9.01 Bridge Bearing

9.01.01 Bridge Bearings (Teflon)

9.02 Marine Bollard

9.02.01 Marine Bollards

9.03 Barge Bumper System

9.03.01 Barge Bumper Systems

9.04 Marine Fender

9.04.01 Marine Fenders

9.05 Shock Cells

9.05.01 Fender System for Boat landings & Barge bumpers

9.06 Rubber Diaphragm Leg Closures

9.06.01 Rubber Diaphragm Closures for Jacket Leg

PML Products and Categories



10.0 ARCHITECTURAL

Product Code Product Name

10.01 Door - Blast- Resistant

10.01.01 Blast Resistant Doors

11.0 ROTATING & MECHANICAL EQUIPMENT

Product Code Product Name

11.01 Pumps

- 11.01.01 Centrifugal Pumps Horz/ Vertical, API 610
- 11.01.02 Centrifugal Pumps Horz/ Vertical, Non API
- 11.01.03 Reciprocating Pumps, API 674
- 11.01.04 Metering Pumps, API 675
- 11.01.05 Rotary Pumps, API 676
- 11.01.06 Sealless pumps, API 685
- 11.01.08 Fire Water Pumps, NFPA 20, UL/FM
- 11.01.09 Eccentric Screw Pumps/ Progressive Cavity Pumps (PCP)
- 11.01.10 Sulphur Pumps
- 11.01.11 Air Operated Double Diaphragm (AODD) Pumps
- 11.01.12 Jet Pumps- Process/ Water

11.02 Centrifugal Compressors, Process

- 11.02.01 Centrifugal Process Gas Compressors and Turbo Expanders/ Turbo Generators, API 617

11.03 Reciprocating Compressors, Process

- 11.03.01 Reciprocating Process Gas Compressors, API 618
- 11.03.02 Reciprocating Process Gas Compressors, ISO 13631

11.04 Positive Displacement Compressors

- 11.04.01 Rotary Screw Compressors, Process, API 619
- 11.04.02 Rotary Vane Compressor, Process/ Air
- 11.04.03 Diaphragm Compressor, Process/ Air
- 11.04.04 Liquid Ring Compressors/ Pumps, API 681

11.0 ROTATING & MECHANICAL EQUIPMENT

Product Code Product Name

11.05 Air Compressors

- 11.05.01 Integrally Geared Air Compressors, API 672
- 11.05.02 Rotary Screw (Dry/ Oil Flooded) Instrument Air Compressors
- 11.05.03 Reciprocating Instrument Air Compressors

11.06 Gas Turbines

- 11.06.01 Gas Turbines- Mechanical Drive and Generators, API 616

11.07 Steam Turbines

- 11.07.01 Special Purpose Steam Turbines, API 612
- 11.07.02 General Purpose Steam Turbines, API 611

11.08 Diesel Engines

- 11.08.01 Diesel Engine Drivers for Pumps and Generators

11.09 Gas Engines

- 11.09.01 Gas Engine Drivers for Mechanical Drives and Generators

11.10 Packages (Rotating Equipment)

- 11.10.01 Instrument Air Compressor Packages
- 11.10.02 Corrosion Inhibitor/ Dosing Packages
- 11.10.03 Fire Water Pump Packages
- 11.10.04 Breathing Air Compressor Package
- 11.10.05 Nitrogen Production
- 11.10.06 Emergency Diesel Generator Package

11.11 Mechanical Seals

- 11.11.01 Pumps/ Mixer Mechanical Seals and Seal Systems, API 682

11.0 ROTATING & MECHANICAL EQUIPMENT

Product Code Product Name

- 11.11.02 Compressor Shaft Sealing System, Wet Seals
- 11.11.03 Compressor Shaft Sealing System, Dry Gas Seals, API 692

11.12 Mixers

- 11.12.01 Side Entry Mixers
- 11.12.02 Top Entry Mixers

11.13 Mechanical Gear Box

- 11.13.01 Special Purpose Gear Box, API 613
- 11.13.02 General Purpose Gear Box, API 677
- 11.13.03 Variable Speed Fluid Couplings

11.14 Couplings

- 11.14.01 Couplings, API 671
- 11.14.02 Magnetic Couplings

11.15 Bearings

- 11.15.02 Active Magnetic Bearings

11.16 Fans

- 11.16.01 Centrifugal Fans API 673
- 11.16.02 Centrifugal Blowers
- 11.16.03 Rotary Positive Displacement blowers
- 11.16.04 Exhaust Fans (ASME/ISO/AMCA)

11.17 Crane

- 11.17.01 EOT Cranes

PML Products and Categories



11.0 ROTATING & MECHANICAL EQUIPMENT

Product Code Product Name

11.18 Centrifugal Separation Equipment

11.18.01 Centrifuge

PML Products and Categories



12.0 STRUCTURAL STEEL PLATES AND TUBULARS (Applicable to Offshore only) - Primary Steel

Product Code Product Name

12.01 Structural Steel

12.01.01 Structural Steel Plates (Z)

12.02 Seamless and SAW/Rolled Tubular Products

12.02.01 Seamless & Saw/Rolled Tubular Products

12.03 Hot Rolled Section

12.03.01 Hot Rolled Section