

# 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 increasingly 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 it to [qpml@qp.com.qa](mailto:qpml@qp.com.qa) along with all necessary documentation listed in the form.

## Contact us

If you have questions or need more information, you can email us at: [qpml@qp.com.qa](mailto:qpml@qp.com.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
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
1.01.20	Amine units for Sour Gas treatment
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

1.02.01	Pressure Vessel and Column ( $\leq 75$ mm thickness, CS & SS including Slug Catcher)
1.02.02	Pressure Vessel and Column ( $\leq 75$ mm thickness, other CRA (Solid & Cladded) including Slug Catcher)
1.02.03	Pressure Vessel and Column ( $> 75$ mm thickness, all materials & equipment)
1.02.04	Heat Exchanger (Shell and Tube)
1.02.05	Heat Exchanger (Brazed Aluminum)

## 1.0 - MECHANICAL MATERIALS

### *Product Code Product Name*

- 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)
- 1.02.09 Pressure Vessel Process internals (excluding 3 phase separator process internals)
- 1.02.10 FRP (thermosetting) pressure vessel
- 1.02.11 Heat Exchanger (Welded Plate -Block Type) (All Materials)
- 1.02.12 Heat Exchanger (Printed Circuit)

### 1.03 - Air Coolers

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- 1.03.01 Wet Air Coolers (Cooling Towers)

### 1.04 - Vessel mounted equipment

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- 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

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

### 1.06 - Tank Appurtenance

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- 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

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- 1.07.01 Pressure Vessel and Tank Plate

### 1.08 - Column Internals (Tray / Packings)

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- 1.08.01 Column Internals (Tray / Packings)

## 1.0 - MECHANICAL MATERIALS

*Product Code Product Name*

### 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

1.13.01 Overhead Crane

1.13.02 Pedestal Crane

1.13.03 Goliath / Gantry / Jib Crane

1.13.04 Mobile Crane

### 1.14 - Hoist

1.14.01 Manual / Pneumatic Industrial Hoist

1.14.02 Electric Industrial Hoist

### 1.15 - Forklift

1.15.01 Hydraulic Forklift Truck

### 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

### 1.18 - Air Filter

# PML Products and Categories



## 1.0 - MECHANICAL MATERIALS

*Product Code Product Name*

1.18.01 Air Filter

### 1.19 - Gangways

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1.19.01 Gangways

# PML Products and Categories



## 2.0 - PIPING MATERIALS

*Product Code Product Name*

### 2.01 - Valves

2.01.01	Gate Valves - CS & LAS ( $\leq 300\text{NB}$ , $\leq 300\#$ )
2.01.02	Gate Valves - CRA (SS, DSS, SDSS, etc.)
2.01.03	Gate Valves - CS & LAS ( $> 300\text{NB}$ , $> 300\#$ )
2.01.04	Globe Valves - CS & LAS ( $\leq 100\text{NB}$ , $\leq 300\#$ )
2.01.05	Globe Valves - CRA (SS, DSS, SDSS, etc.)
2.01.06	Globe Valves - CS & LAS ( $>100\text{NB}$ , $> 300\#$ )
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 ( $\leq 300\text{NB}$ , $\leq 300\#$ )
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 ( $> 300\text{NB}$ , $> 300\#$ )
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	Integral Block-and-Bleed valves and Monoflange for Fittings
2.01.21	Choke Valve
2.01.22	Safety/Relief Valves
2.01.23	Breather Valves
2.01.24	Rupture Disc
2.01.25	Ni-Ni Alloys Valves including Incolys (All types & sizes)
2.01.26	Cu-Cu Alloys Valves (All types & sizes)
2.01.27	Double Block and Bleed Valves
2.01.28	Axial Check Valves

### 2.02 - Valve Interlocks (Mechanical)

2.02.01	Valve Interlocks
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## 2.0 - PIPING MATERIALS

*Product Code Product Name*

### 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 - Corrosion Coupons & Probes

2.05.01 Corrosion Coupons & Probes

### 2.06 - Piping & Tubing

2.06.01 Pipes & Tubes (Seamless/Welded) CS/LAS

2.06.02 Pipes & Tubes (Seamless/Welded) CRA (SS/DSS/SDSS, etc.)

### 2.07 - Pipe Fittings

2.07.01 Pipe Fittings - CS/LAS (All sizes)

2.07.02 Pipe Fittings - CRA (SS/DSS/SDSS, etc. - All sizes)

2.07.03 Pipe Fittings - (Seamless/Welded) 6Mo/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, etc.)

2.08.03 Forged Flanges, Flanged Fittings & Reinforced Branch Connections - 6Mo/Titanium, etc.

### 2.09 - Non-metallic Pipes and Fittings

2.09.01 GRE Piping

2.09.02 HDPE 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

## 2.0 - PIPING MATERIALS

*Product Code Product Name*

### 2.12 - Gaskets & Packing

2.12.01 Gaskets / Packings

### 2.13 - Insulation Gaskets - GRE

2.13.01 Insulation Gasket Set

### 2.14 - Spring Hangers and Pipe Supports

2.14.01 Spring Hangers and Pipe Supports

### 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 ( Process Piping)

2.18.01 Thermal Insulation

### 2.19 - Fittings- Chemical Injection

2.19.01 Fittings- Chemical Injection

### 2.20 - Hub Connectors

2.20.01 Hub Connectors



## 3.0 - INSTRUMENT MATERIALS

*Product Code Product Name*

### 3.01 - Manual Call Point

3.01.01 Manual Call Point

### 3.02 - Limit Switch

3.02.01 Limit Switch

### 3.03 - Pig Signalers

3.03.01 Pig Signalers

### 3.04 - Terminal -Wiring

3.04.01 Terminals/Terminal Block

### 3.05 - Detector - High-Sensitivity, Smoke (HSSD)

3.05.01 HSSD

### 3.06 - Smoke & Heat Detectors

3.06.01 Smoke & Heat Detectors

3.06.02 Linear Heat Detection Cable

### 3.07 - Fusible Plugs

3.07.01 Fusible Plugs

### 3.08 - Cable Ladder & Tray

3.08.01 Cable Ladder & Tray

### 3.09 - Junction Box (FF) with Field Barrier

3.09.01 Junction Box (FF) with Field Barrier

### 3.10 - Pressure & DP Transmitters

3.10.01 Pressure & DP Transmitters

### 3.11 - Pressure Transmitter & DP Transmitters FF

3.11.01 Pressure Transmitter & DP Transmitters FF

### 3.12 - Pressure & DP Gauges

## 3.0 - INSTRUMENT MATERIALS

### *Product Code Product Name*

3.12.01 Pressure & DP Gauges

### 3.13 - Pressure Switches (Electric)

3.13.01 Pressure Switches (Electric)

### 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
- 3.17.02 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

### 3.19 - Flow Switch

## 3.0 - INSTRUMENT MATERIALS

### *Product Code Product Name*

3.19.01 Flow Switch

### 3.20 - Meter Provers

3.20.01 Meter Provers

### 3.21 - Temperature Transmitter (SMART Electronic Type)

3.21.01 Temperature Transmitter (SMART Electronic Type)

### 3.22 - Temperature Transmitters (FF)

3.22.01 Temperature Transmitters (FF)

### 3.23 - Temperature Gauge

3.23.01 Temperature Gauge

### 3.24 - Thermowell

3.24.01 Thermowell

### 3.25 - Temperature Elements (RTD, T/C)

3.25.01 Temperature Elements (RTD, T/C)

### 3.26 - Temperature Switch

3.26.01 Temperature Switch

### 3.27 - Level Switch (Float Type)

3.27.01 Level Switch (Float Type)

3.27.02 Level Switch (Vibrating Blades)

### 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)

## 3.0 - INSTRUMENT MATERIALS

*Product Code Product Name*

### 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

### 3.38 - 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

## 3.0 - INSTRUMENT MATERIALS

### *Product Code Product Name*

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
3.39.17	Analysers - Radiation

## 3.40 - Valve

3.40.01	Control Valve - (Gate/Globe Valve)
3.40.02	Control Valve - (Ball Valve)
3.40.03	Control Valve - (Butterfly Valve)
3.40.04	Control Valve - (Choke Valves)
3.40.05	Valve - Shutdown
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 - F &G Systems

3.41.01	Fire, Safety, Environ / Detectors & Controls
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## 3.42 - Burner Management System

3.42.01	Flame Monitor & Burner Management
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## 3.43 - Purge Control System

3.43.01	Purge Control System (Eex 'P')
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## 3.44 - Anti-Surge Control System -Compressor

3.44.01	Anti-Surge Control
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## 3.0 - INSTRUMENT MATERIALS

*Product Code Product Name*

### 3.45 - Vibration Monitoring

3.45.01 Vibration Monitoring

### 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

### 3.48 - Strip Chart Recorder

3.48.01 Strip Chart Recorder

### 3.49 - Annunciator

3.49.01 Annunciator

### 3.50 - Recorder

3.50.01 Recorder

### 3.51 - Electrmagnetic Relays

3.51.01 Electromagnetic Relays

### 3.52 - Electro-Pneumatic Positioner & I/P Transducers

3.52.01 Electro-Pneumatic Positioner & I/P Transducers

### 3.53 - Valve Positioners (Ff)

3.53.01 Valve Positioners (Ff)

### 3.54 - Junction Boxes/Pushbuttons and Switches

3.54.01 Junction Boxes/Pushbuttons And Switches

### 3.55 - Instrument Enclosure

## 3.0 - INSTRUMENT MATERIALS

### *Product Code Product Name*

3.55.01 Instrument Enclosure

### **3.56 - Control & Marshalling Panels**

3.56.01 Control & Marshalling Panels

### **3.57 - Cables & Wires**

3.57.01 Cables & Wires

### **3.58 - Tubing**

3.58.01 Tubing

### **3.59 - Field Inst-Control**

3.59.01 Field Inst-Control

### **3.60 - Cable Gland**

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

### **3.65 - Noise Measurement Equipment**

3.65.01 Noise Measurement Equipment

### **3.66 - Detector-Flame**

3.66.01 Detector-Flame

3.66.02 Addressable Fire Detection Systems

## 3.0 - INSTRUMENT MATERIALS

*Product Code Product Name*

### 3.67 - Gas Detectors

3.67.01 Gas Detectors

### 3.68 - Beacon / Horn

3.68.01 Beacon / Horn

### 3.69 - Trip Amplifier

3.69.01 Trip Amplifier

### 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

### 3.72 - Flow Computers

3.72.01 Flow Computers

### 3.73 - Nucleonic level instruments (density profiler)

3.73.01 Nucleonic level instruments (density profiler)



## 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
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### 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
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### 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)
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### 4.07 - Stretcher

4.07.01	Stretcher
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### 4.08 - Life Buoy

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

### 4.09 - Fire Safety Equipment

4.09.01	Fire Safety Equipment
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### 4.10 - Life Raft

## 4.0 - SAFETY & SURVIVAL EQUIPMENT

### *Product Code Product Name*

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

### 4.16 - 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

## 4.0 - SAFETY & SURVIVAL EQUIPMENT

*Product Code Product Name*

### 4.19 - Passive Fire Protection

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- 4.19.01 Passive Fire Protection Coatings
- 4.19.02 Fire Jackets for Valves

### 4.20 - Firewater Tanks

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- 4.20.01 Firewater Tanks

### 4.21 - Helideck DIFFS

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- 4.21.01 Helideck DIFFS

### 4.22 - Medical Clinic

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- 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

### 5.03 - 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
- 5.05.11 Radar
- 5.05.12 Navigation security system (GMDSS)

### 5.06 - Meteorological / Weather Monitoring System

- 5.06.01 Meteorological / Weather Monitoring System

### 5.07 - Emergency communication Equipment

- 5.07.01 Public Address / General Alarm Systems

## 5.0 - TELECOMMUNICATION EQUIPMENT

### *Product Code Product Name*

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	Emergency Communication System - 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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### **5.11 - Boom barriers, Turnstile, Road Blockers**

5.11.01	Traffic Barriers
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### **5.12 - Clock Synchronization / GPS Clock**

5.12.01	GPS Clock / Antenna
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### **5.13 - Video Wall Solutions**

5.13.01	Video Wall Solutions
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### **5.14 - Building Management System**

5.14.01	Building Management System
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### **5.15 - Power Supply Equipment - Telecom Systems**

5.15.01	Power Supply Equipment
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### **5.16 - Control room console - Telecom Systems**

## 5.0 - TELECOMMUNICATION EQUIPMENT

### *Product Code Product Name*

5.16.01 Control Room Consoles

### **5.17 - Transmission - Satellite station**

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5.17.01 Transmission - Satellite station

### **5.18 - Miscellaneous navigation AD/metocean**

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5.18.01 Navigation Aid - Gyrocompass Navigation Aid System

### **5.19 - Entertainment**

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5.19.01 Entertainment - TVRO Satellite Kit

## 6.0 - ELECTRICAL MATERIALS

*Product Code Product Name*

### 6.01 - Transformer

- 6.01.01 Power Transformer (Safe area)
- 6.01.02 Distribution Transformer (Safe area)
- 6.01.03 Distribution Transformer (Hazardous area)

### 6.02 - Switchgear

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

### 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 (Safe 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
- 6.07.02 Power Capacitors - LV

### 6.08 - Uninterruptable Power Supply (UPS) System

- 6.08.01 UPS (Safe area)
- 6.08.02 UPS (Hazardous Area)

## 6.0 - ELECTRICAL MATERIALS

*Product Code Product Name*

### 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 (Safe 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 (Safe area)

### 6.15 - Junction Boxes

6.15.01 Power Junction Box (Hazardous area)

6.15.02 Power Junction Box (Safe area)

6.15.03 Lighting Junction Box (Hazardous area)

6.15.04 Lighting Junction Box (Safe 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)



## 6.0 - ELECTRICAL MATERIALS

*Product Code Product Name*

### 6.18 - Cable Gland

6.18.01 Cable Gland

### 6.19 - Cable Ladder, Tray & Trunking

6.19.01 Cable Supports

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 (Safe area)

6.21.04 Remote control unit (Hazardous area)

6.21.05 Socket/Switch (Safe area)

6.21.06 Socket/Switch (Hazardous area)

6.21.07 Isolator/Switch Fuse

6.21.08 Lighting Control

### 6.22 - Solar Panel

6.22.01 Solar Panel (Hazardous area)

6.22.02 Solar Panel (Safe area)

### 6.23 - Generator

6.23.01 HV Generator (Safe area)

6.23.02 LV Generator (Safe area)

### 6.24 - Navigational Aids

6.24.01 Navigational Aids

### 6.25 - Emergency Diesel Generator Package

6.25.01 Emergency Diesel Generator Package

## 7.0 - BUILDING SERVICES

*Product Code Product Name*

### 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
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	Thermal Insulation (HVAC)
7.01.22	Isolator - Vibration

## 8.0 - PIPELINE & UMBILICAL MATERIALS

*Product Code Product Name*

### 8.01 - Induction Bends

8.01.01 Induction Bends

### 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)  
8.05.04 CRA (Solid- Seamless & Welded)  
8.05.05 CRA (Mechanically Lined Pipe)  
8.05.06 CRA (Metallurgical Bonded Clad Pipe)  
8.05.07 CRA (Weld-Overlay Pipe)  
8.05.08 TMCP Pipes (Thermo Mechanical Control Process)

### 8.06 - Flanges

8.06.01 Carbon Steel Flanges  
8.06.02 Swivel Flanges

### 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 (wye, tee, stress-joint, taper-joint)  
8.07.05 Subsea Wye

### 8.08 - Insulating Joint

## 8.0 - PIPELINE & UMBILICAL MATERIALS

### *Product Code Product Name*

8.08.01 Insulating Joints

### 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

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

8.12.04 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 Clamps

8.15.02 Leak Seal System

8.15.03 Composite Repair System

### 8.16 - Composite Pipeline

8.16.01 Tubes for Composite Pipeline

## 8.0 - PIPELINE & UMBILICAL MATERIALS

### *Product Code Product Name*

8.16.02 Accessories (fittings) for Composite Pipeline

### **8.17 - Flexible Pipeline (unbonded)**

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8.17.01 Unbonded Flexible Pipeline (global)

### **8.18 - Flexible Pipeline/Hoses (bonded)**

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8.18.01 Bonded Flexible Pipeline/Hoses (global)

## 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 Shock Cells

### 9.06 - Rubber Diaphragm Leg Closures

9.06.01 Rubber Diaphragm Leg Closures

## 10.0 - ARCHITECTURAL

*Product Code Product Name*

### 10.01 - Door - Blast- Resistant

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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
- 11.01.07 Liquid Ring Compressors/ Pumps, API 681
- 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 Recip Air/ Gas Driven Pumps including 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

### 11.05 - 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



## 11.0 - ROTATING & MECHANICAL EQUIPMENT

*Product Code Product Name*

### 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

### 11.11 - Mechanical Seals

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

## 11.0 - ROTATING & MECHANICAL EQUIPMENT

### *Product Code Product Name*

11.14.02 Magnetic Couplings

### **11.15 - Bearings**

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11.15.01 Bearings

11.15.02 Active Magnetic Bearings

### **11.16 - Fans**

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11.16.01 Centrifugal Fans API 673

11.16.02 Centrifugal Blowers

11.16.03 Rotary Positive Displacement blowers

### **11.17 - Crane**

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11.17.01 EOT Cranes

### **11.18 - Centrifugal Separation Equipment**

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11.18.01 Centrifuge

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

*Product Code Product Name*

### 12.01 - Structural Steel

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12.01.01 Structural Steel Plates (Z)

### 12.02 - Seamless and SAW/Rolled Tubular Products

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12.02.01 Seamless & Saw/Rolled Tubular Products

### 12.03 - Hot Rolled Section

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12.03.01 Hot Rolled Section