

List of Products for Enlistment as per ONGC's Offshore Suggested Vendor List, Rev 7.8 (Jan 27, 2016)

S. No.	Products	FS applicable
	Piping	
1	Pipe-(Duplex SS)	FS 2004A,Rev 8
2	Fittings-Duplex SS (DSS)	FS 2004A,Rev 8
3	Flanges-Duplex SS (DSS)	FS 2004A,Rev 8
4	Ball Valves-Duplex SS (DSS)	FS 2004A,Rev 8
5	Other Valves(Gate Globe, Check, Needle:Duplex SS)	FS 2004A,Rev 8
6	Shutdown Valves (Duplex SS)	FS 2004D,Rev 6
7	Pipe (C.S NACE)	FS 2004A,Rev 8
8	Fittings (C.S. NACE)	FS 2004A,Rev 8
9	Flanges (CS NACE)	FS 2004A,Rev 8
10	Ball Valves (CS NACE)	FS 2004A,Rev 8
11	Gate, Globe, Check, Needle Valves (CS NACE)	FS 2004A,Rev 8
12	Shutdown Valves- CS NACE	FS 2004D,Rev 6
13	Pipe (CS Non-NACE)	FS 2004A,Rev 8
14	Pipe Fittings in CS Non-NACE	FS 2004A,Rev 8
15	Forged Flanges in CS Non-NACE	FS 2004A,Rev 8
16	Ball Valves-(Fire Safe)-CS Non-NACE	FS 2004A,Rev 8
17	Ball Valves-CS Non-NACE	FS 2004A,Rev 8
18	Gate, Globe, Check , Needle Valves (CS Non-NACE)	FS 2004A,Rev 8
19	Pipe (Stainless Steel)	FS 2004A,Rev 8
20	Pipes (Stainless Steel, Welded)	FS 2004A,Rev 8
21	Ball Valves (SS NACE and Non NACE)	FS 2004A,Rev 8
22	Fittings (SS NACE & Non NACE)	FS 2004A,Rev 8
23	Flanges (SS NACE & Non NACE)	FS 2004A,Rev 8
24	Globe , Check & Needle Valve (SS NACE)	FS 2004A,Rev 8
25	Gate Valve (SS NACE)	FS 2004A,Rev 8
26	Gate/Globe/Check/Needle valve (SS Non-NACE)	FS 2004A,Rev 8
27	Pipes (Cu-Ni)	FS 2004A,Rev 8
28	Pipes & Fittings(Cu-Ni)	FS 2004A,Rev 8
29	Ball Valve (Aluminium Bronze)	FS 2004A,Rev 8
30	Ball/Gate/Globe/Check/Needle valve (Al-Bronze, Leaded-Tin Bronze)	FS 2004A,Rev 8
31	Titanium valves	FS 2004A,Rev 8
32	Flanges(SD/SS Incoloy/Titanium/CS)	FS 2004A,Rev 8
33	Ball Valves (Incolloy)	FS 2004A,Rev 8
34	GRE-Pipes- Fittings / Flanges	FS 2004A,Rev 8
35	Ball Valve (CPVC/PVC)	FS 2004A,Rev 8
36	Shutdown Valves (CPVC)	FS 2004D,Rev 6
37	Scraper Tees (ASME-B31.4/31.8)	FS 2004D,Rev 6
38	Hinged Closures (ASME SEC VIII Div 1)	FS 2004D,Rev 6
39	Corrosion Probes	FS 2004A,Rev 8
40	Pig Detector	FS 2004D,Rev 6
41	FW/FM Reels & Utility Hose Reels-(UL/USCG/FM Approval)	FS 2004D,Rev 6
42	Strainer-(Basket type as per ASME SEC VIII Div 1 and others)	FS 2004D,Rev 6
43	Spray Nozzles-(NFPA 15 and appv. By UL,USA/VJTI,INDIA)	FS 2004D,Rev 6
44	Continuous Drainers	FS 2004D,Rev 6
45	5D Bends-(ASME B 31.4 / 31.8)	FS 2004D,Rev 6
46	Chemical & Utility Hoses & Hose Connection.(Fire Resistant)	FS 2004D,Rev 6
47	Choke valves	FS 2004D,Rev 6
48	2" Adjustable choke valve 900# class NACE	FS 2004D,Rev 6
49	Sample Bomb-(ASME Sec VIII Div1)	
50	Launcher /Receiver-(ASME-B31.4/31.8) -(ASME Sec VIII Div1)	
51	Gaskets	FS 2004D,Rev 6
52	Flanges-Super DSS	FS 2004A,Rev 8
53	Shutdown Valve - CS	FS 2004D,Rev 6
54	Shutdown Valve - SS - Non NACE	FS 2004D,Rev 6
55	Multi Port Valves	FS 2004A,Rev 8
56	Shutdown Valve - Ni-AI-Br (NAB)	FS 2004D,Rev 6
57	Double Block & Bleed (DBB) Arrangement Valves (CS-NACE)	FS 2004D,Rev 6
58	Double Block & Bleed (DBB) Valves (DSS)	

59	Check Valves (Incolloy)	FS 2004A,Rev 8
60	Flame Arrestors	
61	HIPPS (High Integrity Pressure Protection System)-Packaged Item	C 104 Rev 3
62	Inline Separator (De-Liquidiser)	FS 2004 F Rev 0
	Mechanical & Rotary Equipment	
1	Deck Crane-API-2C monogram	FS 5301,REV 8
2	Pneumatic (Air/HC Gas) driven pumps	5055C, Rev1/5055F, Rev0
3	Fabricator of Pressure Vessels- ASME "U" code stamped (Air Receiver, Nitrogen Receiver, Glycol Seal Pot, Crude Condensate Drum, Well Activation Vessel, Hot Oil Expansion Tank, Oxygen Scavenger Reaction Vessel & Skimmer vessels)	FS 5601,REV2
4	Inst./Utility Gas Systems-Packaged Item (Process Licensor)	Design Criteria Mechanical Safety & life saving equipment (Well Platform), Rev 7
5	Chain Pulley Block	Design Criteria Mechanical Safety & life saving equipment (Well Platform, rev 7/Process platform, rev 6)
6	Heat Exchangers-Shell-Tube TEMA code	FS 5702F,REV0
7	Process Licensors-Separators (HP/LP / Cyclone / Test / Surge Tank / Knock Out Drums - ASME 'U' code stamped)	FS 5601,REV2
8	Fuel Gas Conditioning Skid-Packaged Item (Process Licensor)	FS 5095F,Rev 1
9	HVAC-Packaged Item (Process Licensor/Compressor OEM or Authorised by Compressor OEM)	FS 5901F, REV0
10	Sewage Treatment Unit	FS 5078F Rev 1- Electro type,5079 REV 0- Biotype
11	Utility Water Pump	Design Criteria Mechanical Safety & life saving
12	Rotary Gear Pumps	FS 5086F, Rev2
13	Fire Water Pump-Packaged item (Pump/Enginer OEM or Authorised by Pump/Engine OEM)	FS 5206,Rev 3
14	Instrument & Utility Air Compressors-Packaged Item (Compressor OEM or Authorised by Compressor OEM)	FS5402, rev1
15	Sea Water Lift Pumps	FS 5001,Rev 2
16	Produced Water Conditioner System (PWCS)-Packaged Item (Process Licensor)	FS 5802F REV1
17	Engine Supplier and Packager	FS 5502F,Rev 0
18	Chlorinators	FS 5405F,Rev 3
19	Fine Filters	FS 5601,REV2
20	Water Deoxygenation Tower	No FS, Based on Process parameters only,
21	Main Injection / Main Oil Line Pumps	FS 5001, Rev2
22	Sump Caisson	FS 5904, Rev0
23	Chemical Storage& Dosing System-Packaged Item (Chemical Dosing Pump OEM or Authorised by Chemical Dosing Pump OEM)	FS 5055 C, rev 1
24	Sump Pumps	FS 5001, Rev 2
25	Controlled Volume Pumps	FS 5055C, Rev1
26	Rotary Positive Displacement Pumps	FS 5086F, Rev2
27	Reciprocating Plunger Pumps	FS 5205, Rev1
28	Vacuum Pumps	No FS, come with DO Tower package
29	Process Gas Compressor (PGC)- API 617	FS 5404F, Rev3
30	Gas Turbine- API 616	FS 5501, Rev2
31	DG Set (Portable)	FS 5502F and Electrical FS
32	CO2 Snuffing System	Design Criteria Mechanical Safety & life saving equipment (Well Platform, Rev 7/Process platform, Rev 6)
33	Air Cooled Heat Exchanger	FS 5701F, Rev0
34	Waste Heat Exchangers / Waste Heat Recovery Unit- WHRU	FS 5703, Rev0
35	Demisters	5601, rev 2
36	Nitrogen Generator-Packaged Item (Membrane/Air Compressor OEM or Authorised by Membrane/Air Compressor OEM)	FS 5907(mem), Rev0, FS 5903 (PSA), rev 0
37	Blow Case for Sump Caisson	FS 5904, Rev 0
38	Water Maker	FS 5602F (VC), Rev 0 & FS 5610F (RO), Rev0

39	ATF Handling Pump	FS 5905, Rev0
40	GDU (Gas De-hydration Unit)-Packaged Item (Process Licensor)	FS 5801F, Rev1
41	GSU (Gas Sweetening Unit)-Packaged Item (Process Licensor)	FS 5908, Rev0
42	HP & LP Flare System	FS 5906, Rev0
43	Travelling Bridge Crane	Design Criteria Mechanical Safety & life saving equipment (Process Platform), Rev 6
44	Jet Fuel System	FS 5905, Rev0
45	Diesel Centrifuge	FS 5902F, Rev0
46	Monorail Hoist (Manually Operated Geared Trolley with Electric Hoist)	Design Criteria Mechanical Safety & life saving equipment (Process Platform), Rev 6
47	Filters & Filter Coalescers	FS 5601, Rev2
48	Air/Natural Gas Operated Double Diaphragm Pumps	Design Criteria Mechanical (Well, Rev 7/Process, Rev 6)
49	Screw Gas Compressors	FS 5401, Rev 0
50	Hot Oil Pump	FS 5204 Rev 0
	III Safety Items	
1	Dry Chemical Skid-(350 lbs)-UL listed skid/ UL listed Components	FS 5067, Rev2
2	Portable Fire Extinguishers	FS 5102, Design Criteria Mechanical (well/Process)
3	Life Preservers (Life Jackets, Life Ring Buoys) Inflatable Life Rafts, First Aid Kits, Fire Blanket, Fireman's outfit, Breathing equipment, Stretcher, Personnel, Baskets, Scramble nets	FS 5102
4	Breathing Air Compressor	FS 5406 Rev 0
5	Eye Wash & Safety Shower	FS 5102
6	Helicopter Rescue Kit	FS 5102
7	Personnel Protection Equipment from H2S Exposure	FS 5102
8	Survival Craft	FS 5102
9	Clean Agent System	FS 5103
	IV Instrumentation	
1	Pressure Gauges	FS 3401 Rev 6
2	Diff. Pressure Gauges & Indicators	FS 3400 Rev 6
3	Telemetry Interface Cabinet	FS 3502 Rev 2a
4	Well Fire Shutdown Panel & Test Separator Shutdown Panel- Packaged Item	FS 3501 Rev 5
5	Distributed Control System (DCS)	C-100 Rev 4
6	Pneumatic Pressure Switch/HI-LO Pilots (Indicating dial type)	FS 3600 Rev 5
7	Pressure Switches (Explosion Proof)	FS 3402 Rev 2
8	Pressure Relief Valves (PRV)	FS 3701 Rev 4
9	Pressure Indicating Controllers (PIC)	FS 3601 Rev 4a
10	Large Case Field Recorders	FS 3603 Rev 2, 3604 Rev 2
11	Field Pneumatic Integrators	not used these days
12	Gauge Glass & Cocks	FS 3100 Rev 4
13	Level Instruments- Pneumatic (Level- controls & Level Switches)	FS 3101 Rev 4
14	Level Switches (Explosion Proof)	FS 3102 Rev 4
15	Pressure Transmitters (PT) / P to I Converters	FS 3602 Rev 2, 3403 Rev 2
16	Solenoid Valves	Requirement in FS C-104. FS 3501 with spec
17	Turbine Flow Meters	FS 3207 Rev 4
18	Temperature Transmitters	FS 3302 Rev 4
19	Temperature Gauges	FS 3300 Rev 5
20	ESD & FSD Valves	Requirement in FS 3500 and FS 3501 & Spec in FS 3507
21	Temperature Switches	FS 3301 Rev 2
22	Fusible Plugs	FS 3500
23	Orifice Plates & Flanges and Restriction Orifices	FS 3203 Rev 4, 3204 Rev 4
24	Senior, Junior, Simplex Orifice Fittings	FS 3205 Rev 3
25	Filter Regulators	FS 3606 Rev 4
26	Flow Switches (Pneumatic & Electrical)	FS 3200 Rev 3
27	Control Valves	FS 3700 Rev 4
28	Self Actuated Pressure Control Valves	FS 3702 Rev 4

29	Fire and Gas Detection System-Packages Item	FS 3500 Rev 6
30	Deluge Valve with Test facility	FS 3703 Rev 3
31	Water Cut Meter	Pending
32	Rotameter	FS 3206 Rev 4
33	Annubars / Pitot Tubes	Not used
34	Instrumentation Fittings	FS 3507 Rev 4
35	Flow computer (Liquid/Gas)	FS 3211 Rev 4
36	Flow totalizer	FS 3201 Rev 4a
37	Ultrasonic flow Meter	FS 3212 Rev 1a
38	Corrosion Analyzer	No specs
39	Portable Calibrator/Hand Held Multifunctional Calibrator	FS 3605 Rev 3
40	Chlorine Analyzer	No specs
41	Dissolved Oxygen Analyzer	No specs
42	Programmable Logic Controller (PLC)	C 101 Rev 3
43	Multiphase Flow Meter (MPFM)	FS 3209 Rev 4
44	Coriolis Meter	FS 3208 Rev 4a
45	Salino Meter	No specs
46	High pressure Control Valves (HPCV)	FS 3700
47	Level Transmitters	FS 3103 Rev 4a
48	Isolators & Barriers (Active & Passive)	C-100
49	Limit Switches	FS 3700 & C-104
50	Tubing Valves	FS 3507
51	HC/H2/H2S Gas Detectors	FS 3500 Rev 6
52	Fire Detectors	FS 3500 Rev 6
53	Smoke / Thermal Detectors	FS 3500 Rev 6
54	Manual Call Point, Abandon Switch, Flash Light	FS 3500 Rev 6
55	Hand Control Valves	FS 2004D, PIPING
56	Moisture Analyzer System Integrator	No specs
57	Magnetic Flow Meter	FS 3213 Rev 1
58	Actuators for Valves (Topside)	FS 3700 (CV), FS 3509 (SSIV) & C-104 (HIPPS)
59	Actuators for Valves (Subsea)	FS 3509 Rev 2
60	Instrumentation Tubing	FS 3507 Rev 4
61	Weather Monitoring System (WMS)	Pending
62	Subsea Umbilical	3510 Rev 3
63	Wet Gas Meter	3215 Rev 0
64	Cables (Instrument)	3508 Rev 2
65	Cone Meter	3214 Rev 1
	V Electrical Equipment	
1	Transformers (Cast Resin Type)	FS 4042 Rev 1
2	UPS System-Packaged Item	FS 4025 Rev 3
3	LT Switch Gear	FS 4013 Rev 5
4	HT Switch Gear	FS 4024 Rev 4
5	Battery & Battery Charger-Packaged Item	FS 4023 Rev 4
6	Cathodic Protection System	FS 4001 Rev 7 ,FS 4002 Rev 8
7	Fluorescent / Incandescent Class-"B" LTG Fixtures	FS 4028 Rev 0
8	Navigational Aid System-(NAVAID)	FS 4003 Rev 5 ,4003A Rev 1
9	Lead Acid Batteries (Solar Power System)	no separate FS but given in 4007A
10	Multi Cable Transit (MCT)	No specs. Covered under IEC
11	Div.2 Aviation Marker Lighting Fixtures	No specs. Covered under IEC
12	Lighting & Power Distribution Panel, AC & DC Distribution Board	FS 4004 Rev 2,FS 4035 Rev 0
13	Solar Power System-Packaged Item	FS 4007A Rev 2
14	Fire Survival Cables	FS 4011 Rev 4
15	FRP Cable Trays	FS 4005 Rev 2
16	Batteries (Ni-Cd)	FS 4023 Rev 4
17	Hazardous Area Lighting Fixtures	FS 4006 Rev 3 ,4010 Rev 3
18	MV Motors (Flame Proof Exd, EX e, EX n)	FS 4008 Rev 3
19	Junction Boxes	FS 4006 Rev 3
20	Cables (Power)	FS 4011 Rev 4
21	Cable Glands	No Specs. Covered under IEC
22	Electrical Heat Tracing	FS 4016 Rev 2
23	Paging and Intercom System	FS 4036 Rev 0
24	i. Explosion Proof Control Stations	FS 4012 Rev 1
	ii. Industrial Type Plug and Sockets	FS 4034 Rev 0
25	Submarine Cable	FS 4020 Rev 3
26	HV Motors-(Ex e/ Ex n)	FS 4008 Rev 3

27	Telephone System	To be discussed with Infocom
28	Radio System	FS 4037 Rev 0
29	Hazardous Area Lighting Panel (Flameproof)	FS 4004 Rev 2
30	Welding Receptacles & Convenience Outlets (Flameproof)	FS 4034 Rev 0
31	CCTV System	FS 4032 Rev 0
32	Marine Passenger Elevators (Electric)	to be proposed for deletion
33	Utility Generator- Alternator for Diesel Generator Package	FS 4031 Rev 1
34	Main Injection / Main Oil Line Pumps- Electric Motors	FS 4008 Rev 3
35	Turbine Generator Set- Alternators	FS 4041 Rev 1
36	Diesel Generator Packager	FS 4030 Rev 0 & FS 4031 Rev 1
	VI Pipeline	
1	Carbon Steel Line Pipe (Sour & Non-Sour Service)	2020D Rev 0,2020B Rev 4
2	Long Radius Bend	2018 Rev 0
3	Concrete & Anti-corrosion Coating	2012A Rev 0,2013 Rev 1
4	Nickel-Copper Alloy- UNS N04400 plates (Monel)	2015 Rev1
5	Flexible Linepipe	2020E Rev 0
6	Subsea Flanges – Carbon Steel (Sour & Non-Sour Service)	2024B Rev 0,2024A Rev 0
7	Subsea Flanges (DSS)	2024A Rev 0 ,2024B Rev 0
8	Misalignment Flange	2024A Rev 0 ,2024B Rev 0
9	Subsea Carbon Steel Ball Valves (Sour & Non Sour Service)	2025B Rev 2
10	Subsea Carbon Steel Check Valves (Sour & Non Sour Service)	2026B Rev 0
11	Subsea Carbon Steel Flow Tee (Sour & Non Sour Service)	2028 B ,Rev 0
12	Subsea Carbon Steel Hinged Closure (Quick Opening)(Sour & Non Sour Service)	2004 A rev 8 with Sub-sea PTR
13	Subsea Piggable Wye (Sour service)	
14	CRA clad pipes	2020F Rev 0
	VII Structural Items	
1	Rubber Fenders	FS 6001F Rev 6
2	Grout Seal	FS 6001F Rev 6
3	Diaphragm Closure	FS 6001F Rev 6
4	Marine Growth Preventer (MGP)	FS 6001F Rev 6
5	Marine Paints (Protective coating) for offshore structure	FS 2005 Rev 4
6	Fibre glass Reinforced Plastic Gratings & Handrails	FS 6001F Rev 6
7	Aluminium Heli Deck	FS 6001F Rev 6 & Design Criteria Sec 3.4 of Structure
8	Barge Bumper Shock Cell	FS 6001F Rev 6
9	Rubber Strips	FS 6001F Rev 6
10	Single Point CALM Buoy System and conventional boat mooring system (SALM)	under preparation
	VIII ARCHITECTURAL ITEMS	
1	External Fire Proofing H rated	FS 6011,Revision1
2	External Fire Proofing A Rated	FS 6011,Revision1
3	Internal Fire Wall A rated & B rated	FS 6011,Revision1
4	Pre Fabricated Toilet System	FS 6011,Revision1
5	B-15 Suspended Ceiling	FS 6011,Revision1
6	Floor Screed / Underlay	FS 6011,Revision1
7	Vinyl Tiles / Vinyl Sheets	FS 6011,Revision1
8	Ceramic Tiles	FS 6011,Revision1
9	Access Floor System	FS 6011,Revision1
10	External Fire Proofing Coating H Rated	FS 2005 rev. & Safety specification of Mechanical
11	H-60 & A-60 Fire Rated Door	FS 6011,Revision1
12	B-15 Fire Rated Door	FS 6011,Revision1
13	A-60 Fire Rated Window	FS 6011,Revision1
14	A-0 Fire Rated Rolling Shutter	FS 6011,Revision1
15	Insulation	to be removed