



Bharat Heavy Electricals Limited

(A Govt of India Undertaking)

Piping Centre, No.80, G N Road, T.Nagar, Chennai-600 017, Tamil Nadu

REF: PC/PURCHASE/SDC

DT: 03.07.2021

EOI-Supplier Base Expansion

BHEL, Piping Centre, Chennai is glad to invite Expression of Interest (EOI) from **Manufacturers** of various engineering components (as shown in the Annexure-A), for expanding their vendor base.

Interested and capable vendors who are satisfying all the “General Eligibility Criteria” given in the Annexure-B may apply through the supplier application portal <https://supplier.bhel.in>.

The ‘**Steps for filling the Application Form**’ option, available in the above-mentioned website provides the detailed steps.

COMPLETENESS OF THE SUPPLIER REGISTRATION FORM AND ALL SUPPORTING DOCUMENTS MAY PLEASE BE ENSURED BEFORE ONLINE SUBMISSION.

It is emphasised that this invitation is open for **ORIGINAL MANUFACTURERS only** and not for Traders or Dealers or Stockists or Agents.

In case of any query, you may contact:

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BHARAT HEAVY ELECTRICALS LIMITED
PIPING CENTRE, G N ROAD, T NAGAR, CHENNAI -600017

Annexure A - List of Items for EOI

S. No.	Mat Group	Material Group Description	Detailed item description	Approx Annual Procurement Value in Lakhs
SUB-DELIVERY C & I ITEMS				
1	81DPG	DP GAUGES	Differential pressure measurements across strainers and Control valves. Diaphragm type	3
2	81DPS	D.P SWITCHES	Differential pressure measurements for alarm , trip set point generation . Diaphragm type	1
3	81LIR	LI RACK	Local instrument racks to mount 4 - 6 instruments at strategic locations	21
4	81LLG	LEVEL GAUGES	Tank level measurements , Reflex type and Tubular type	4
5	81LLS	LEVEL SWITCHES	Tank level measurements for alarm , trip set point generation . Ext cage float type.	1
6	81MTC	MTM THERMOCOUPLE	Measure metal temperature using K Type Thermocouples	2
7	81PRG	PRESSURE GAUGES	Process pressure measurement in steam and water lines . Bourdon , Bellows type	8
8	81PRS	PRESSURE SWITCHES	Process pressure measurements for alarm , trip set point generation. Bellows , Bourdon , Diaphragm	1
9	81ROM	BYPASS ROTOMETER	Measure flow in in CW lines . Glass tube , Metal tube Bypass rotameters	12
10	81SFI	SIGHT FLOW INDICATOR	To check flow of water in CW lines . Flapper / Rotary wheel type	12
11	81TEG	TEMPERATURE GAUGE	Process Temperature measurement in water and steam lines . Inert gas , Bimetallic type	23
12	81THW	THERMOWELL	TWs for conducting Performance guarantee test , welded and threaded type	7
13	LLSCO	CONDUCTIVITY TYPE LEVEL SWITCH - TPPC	Detect condensate levels in drain pots , based on conductivity principle	16
14	81APT	OPENTEND-AVERAGING PITOT TUBE	To measure condensate flow at condensate pump discharge - Averaging Pitot Tube	9
15	FLEFN	FLOW NOZZLE ASSEMBLY TPPC	To measure flow in steam lines . LR FN Assy , Nozzle SS316 material	6
16	FLEFN9	P91 FLOW NOZZLE ASSEMBLY	To measure flow in steam lines , LR FN Assy , Nozzle SS316 / P 91 material	8
17	FLEOP	ORIFICE PLATES TPPC	To measure flow in water lines / spray water lines . Plate material SS316	4
18	FLEFN92	P92 FLOW NOZZLE ASSEMBLY	To measure flow in steam lines , LR FN Assy , Nozzle SS316 / P 91 material	1
WELDED PIPES				
19	PCP691	PIPES 691	Alloy steel welded pipes (ASME SA691/ASTM A691) of material specification SA691-2 1/4 GR CL22. Technical requirements shall be as per BHEL TDG:09 Latest Rev.	154
20	PCP35	PIPES-IS3589- UP TO NB250	Pipes confirming to IS3589 ranging from NB150 to NB250 as per BHEL TDG: 07 Latest Rev.	64
21	PCP36	PIPES-IS3589 NB450-2500	Pipes confirming to IS3589 ranging from NB450 to NB2500 as per BHEL TDG: 07 Latest Rev. Includes Rolled and welded pipes using IS2062 plates / IS 10748 coils confirming to IS3589 as per BHEL TDG: 07 Latest Rev.	2805
22	PCP38	PIPES TO A672	1. Carbon steel welded pipes as per ASME SA671/ASTM A671. 2. Carbon steel welded pipes as per ASME SA672/ASTM A672. Technical requirements shall be as per BHEL TDG:08 Latest Rev.	483
23	PCP42	PIPES-IS3589-NB300 TO 400	Pipes confirming to IS3589 ranging from NB300 to NB400 as per BHEL TDG: 07 Latest Rev.	264
24	PCPCW	PIPES-IS3589 NB>2500	Rolled and welded pipes using IS2062 plates / IS 10748 coils confirming to IS3589 as per BHEL TDG: 07 Latest Rev.	5434
25	PCPIS	PIPES-IS 1239	Pipes as per IS1239 Part-1 upto NB150.	300
FITTINGS AND FORGINGS				
26	FITW9	FABRICATED FITTINGS- SA182F91	Fabricated Fittings with specification SA182 F91 Items shall be as per BHEL TDG 108 Latest Rev Mandatory documents for registration: Previous Supply Experience, ISO 9001:2015, IBR Certification Of Factory	96

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27	FITWA	FABRICATED FITTINGS-AS	Fabricated Fittings with specification SA182 F11/F22 Items shall be as per BHEL TDG 108 Latest Rev Mandatory documents for registration: Previous Supply Experience, ISO 9001:2015, IBR Certification Of Factory	10
28	FITWC	FABRICATED FITTINGS-CS	Fabricated Fittings with specification SA105, SA106 Items shall be as per BHEL TDG 108 Latest Rev Mandatory documents for registration: Previous Supply Experience, ISO 9001:2015, IBR Certification Of Factory	6
29	FIT91	FITTINGS- WP91	Butt welded fittings of Alloy Steel (WP91) - both seamless and welded constructions Items shall be as per BHEL TDG 102 Latest Rev & QPG 46 Latest Rev Mandatory documents for registration: Previous Supply Experience, ISO 9001:2015, Burst Test Report, IBR Certification Of Factory	385
30	FITAS	FITTINGS-ALLOY STEEL	Butt welded fittings of Alloy Steel (WP11 / 12 / 22) - both seamless and welded constructions Items shall be as per BHEL TDG 102 Latest Rev & QPG 46 Latest Rev Mandatory documents for registration: Previous Supply Experience, ISO 9001:2015, Burst Test Report, IBR Certification Of Factory, <u>Approved WPS & PQR for welded fittings</u>	77
31	FITCS	FITTINGS-CARBON STEEL	Butt welded fittings of Carbon Steel (WPB / C) - both seamless and welded constructions Items shall be as per BHEL TDG 102 Latest Rev & QPG 46 Latest Rev Mandatory documents for registration: Previous Supply Experience, ISO 9001:2015, Burst Test Report, IBR Certification Of Factory, <u>Approved WPS & PQR for welded fittings</u>	912
32	FITSS	FITTINGS-SS	Butt welded fittings of Stainless Steel (WP304 / 316 / 321) - both seamless and welded constructions Items shall be as per BHEL TDG 102 Latest Rev & QPG 46 Latest Rev Mandatory documents for registration: Previous Supply Experience, ISO 9001:2015, Burst Test Report, <u>Approved WPS & PQR for welded fittings</u>	50
33	FIT92	A234 WP92 FITTINGS	Butt welded fittings of Alloy Steel (WP92) - both seamless and welded constructions Items shall be as per BHEL TDG 120 Latest Rev & QPG 46 Latest Rev Mandatory documents for registration: Previous Supply Experience, ISO 9001:2015, Burst Test Report, IBR Certification Of Factory	215

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34	FITDSS	FITTINGS - DUPLEX STAINLESS STEEL	Butt welded fittings of Duplex Stainless Steel (UNS32205) - both seamless and welded constructions Items shall be as per BHEL TDG 102 Latest Rev & QPG 46 Latest Rev. For these items, QP for manufacture shall be submitted for BHEL approval. Mandatory documents for registration: Previous Supply Experience, ISO 9001:2015, Burst Test Report, Approved WPS & PQR for welded fittings	45
35	FITIS	FITTINGS- IS:1239 PART II	Fittings as per IS1239 Part-2 upto NB150.	21
36	FITFLG	FLANGES CARBON STEEL & ALLOY STEEL (EXCEPT F91)	Supply of Carbon Steel (SA 105) & Alloy Steel (SA 182 F22 IBR forgings) as per BHEL TDG 104 REV 10 & QPG 87 Latest Rev. Mandatory documents for registration: Previous Supply Experience, ISO 9001:2015, IBR Certification Of Factory	26
37	FIF91	HOLLOW FORGE, STUB- SA182F91	Supply of Alloy Steel (SA 182 F91 IBR forgings) as per BHEL TDG 104 REV 10 & QPG 87 Latest Rev. Mandatory documents for registration: Previous Supply Experience, ISO 9001:2015, IBR Certification Of Factory	268
38	FITFG	HOLLOW FORG, STUB- CS & AS	Supply of Carbon Steel (SA 105) & Alloy Steel (SA 182 F22 IBR forgings) as per BHEL TDG 104 REV 10 & QPG 87 Latest Rev. Mandatory documents for registration: Previous Supply Experience, ISO 9001:2015, IBR Certification Of Factory	68
39	FITSW	FITTINGS-SOCKET WELD	Socket welded IBR fittings CS,AS,SS (SA105, SA182) as per BHEL TDG 103 Latest Rev & QPG 87 Latest Rev. Mandatory documents for registration: Previous Supply Experience, ISO 9001:2015, IBR Certification Of Factory	20
40	FORYC	FORGED Y CS	Supply of Carbon Steel (SA 105) & Alloy Steel (SA 182 F22 IBR forgings) as per BHEL TDG 104 REV 10 & QPG 87 Latest Rev. Mandatory documents for registration: Previous Supply Experience, ISO 9001:2015, IBR Certification Of Factory	60
41	FIF92	FORGING- SA182F92	Supply of Alloy Steel (SA 182) IBR forgings (F92) as per BHEL TDG 104 REV 10 & QPG 87 Latest Rev. Mandatory documents for registration: Previous Supply Experience, ISO 9001:2015, IBR Certification Of Factory	292
42	FORY9	FORGED Y F91	Supply of Alloy Steel (SA 182) IBR forgings (F91) as per BHEL TDG 104 REV 10 & QPG 87 Latest Rev. Mandatory documents for registration: Previous Supply Experience, ISO 9001:2015, IBR Certification Of Factory	50
43	FORYT92	F92 FORGED TEES AND Y PIECES	Supply of Alloy Steel (SA 182) IBR forgings (F92) as per BHEL TDG 104 REV 10 & QPG 87 Latest Rev. Mandatory documents for registration: Previous Supply Experience, ISO 9001:2015, IBR Certification Of Factory	389
HANGER COMPONENTS				

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44	80CTS	CUT TO SIZE	The following items are being procured under cut to size as per BHEL drawings: <ul style="list-style-type: none"> Carbon Steel Sheets as per specification IS1079-St.34 Structural Steel Plates as per specification IS2062GrA / Gr.B Carbon Steel Plates as per spec SA515Gr.70, BHEL TDG:16:0 Alloy Steel Plates as per specification SA387Gr.22Cl.2/Gr.12Cl.2, BHEL TDG:20:0 Square Washers of sizes M12 to M56 Var.01 (M12) as per spec IS2062FE410WA 	6
45	80FST	FASTENERS	Commercial grade fasteners including bolts, Hex bolts, nuts, hex nuts, precision bolts as per IS1364(Parts 1, 3 & 4), SA194Gr.2H and SA194GR7, punched washers as per IS-2016.	52
46	80LCL	LUGS AND CLAMPS	The following items are being procured under Lugs and Clamps as per BHEL drawings: <ul style="list-style-type: none"> Carbon steel Support Lug as per IS1079 Fe 330 Carbon steel Clamp for Insulation & Cladding Support for Various Dia as per IS 2062 Fe 410A Lug in various length as per IS2062 Fe 410A Tracer U-Clamp as per IS1079 Fe 330 Alloy Steel Support Lug for insulation as per SA387Gr22CL2 Alloy steel Clamp for Insulation for Various Dia as per SA387Gr22CL2 	39
47	80LOP	LOAD PIN	Load pins used in weld on bracket assembly / clevis with bolt assembly are being procured as per SA105 / EN8 with diameter ranging from 16mm to 46mm as per BHEL drawings.	7
48	80NAF	NON-ASBESTOS GASKET JOINTS	Non-asbestos jointing sheet of thickness 1.5mm and 3mm are being procured as per datasheet PC:SD:SPEC:GASKET:001.	9
49	80RCL	ROD TYPE PIPE CLAMPS CS & AS	<ul style="list-style-type: none"> Carbon steel U-rod clamps ranging from NB15 to NB300 are being procured as per spec IS2062GrB and BHEL drawings Carbon steel U-rod clamps ranging from NB350 to NB900 are being procured as per spec SA105 and BHEL drawings Alloy steel U-rod clamps ranging from NB15 to NB65 are being procured as per spec SA182 F22 CL3 and BHEL drawings 	37
50	80ROC	ROD COUPLING	Rod coupling are being procured as per SA105 / EN8 with size ranging from M12 to M64 as per BHEL drawings.	11
51	80ROE	ROD END	Rod ends are mechanical articulating joints used on the ends of tie rods in hanger supports of Piping system for power plant projects. Forged Rod ends with lock nuts and bearings (SKF GE20C or equivalent of INA / ELGES/ NSK / MAYFIELD) that can bear a load of 25KN, 63KN, 100KN and 250KN are being procured. Both RH and LH threaded rod ends are being procured as per BHEL drawings.	136
52	80SPR	SPACER RING	Spacer Rings, also known as piping spacers, are used between flanges to correct gaps or misalignment. Carbon Steel Spacer Ring as per SA105, IS226 & IS2062 and Alloy Steel Spacer Ring as per SA182F12, SA182F22 are being procured as per dimensions in BHEL drawings.	3
53	80TCL	TUBE CLIPS CS & AS	Carbon steel tube clips as per IS2062GrB and Alloy Steel tube clips as per SA387Gr22 for a size range of NB15 to NB50 (both long and short varieties as per BHEL drawings).	24

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54	80TIR	TIE ROD	A tie rod or tie bar (also known as a hanger rod if vertical) is a slender structural unit used as a tie and (in most applications) capable of carrying tensile loads only. The following types are being procured as per BHEL drawings: 1. Tie rods - Right / Left handed - Fully threaded - Length 3000 - M12 to M85 2. Tie rods - Right / Left handed - Fully threaded - Length 1800 - M48, M56 & M64 3. Tie rods - Right / Left handed - Partially threaded - M12 to M85	72
55	DRPAY	DRIP PAN ASSEMBLY	Sheet metal assembly as per BHEL drawings.	1
56	FAB07	B7 FASTENERS	Fasteners especially STUDS of specification SA193GRB7 ranging from M12 to M39. Items shall be as per BHEL BPS41117 and BHEL drawings.	65
57	FAB16	B16 FASTENERS	Fasteners especially STUDS of specification SA193GRB16 ranging from M12 to M52. Items shall be as per BHEL BPS41106 and BHEL drawings.	25
58	M FLAN	PLATE MACHINED FLANGES	Blank flange (NB50 to NB600), SOW Flange (NB50 to NB300), Flat Faced Flange (NB25 to NB900) with specifications IS2062GRB / IS2062GRA / SA105 / SA182F304 / SA182F316L / SA240TP304 / SA403WP304 / SA515GR70 / SA516GR70 and BHEL drawings.	32
59	M FORG	MACHINED FORGING	Machined forgings like eye nut, turn buckle, clevis with bolt, clevis with bolt assembly, weld on clevis and weld on clevis assembly with specification SA105 and BHEL drawings.	161
60	PLSTU	PLUGS & STUBS	Non-IBR socket welded stubs ranging from NB15 to NB50 with specification	10
61	STDCL	CLAMP PS - CS	Horizontal clamp assembly and riser clamp assembly with CS & AS construction	65
62	TGTPL	TARGET PLATE	Plates with Buffing to mirror finish, Plastopeel, 0.3µm surface finish for CS & 0.1µm for SS are procured with sizes ranging from NB300 to NB800.	5
63	80FSST	FASTENERS (SS)	Stainless steel fasteners with sizes ranging from M8 to M36 (SS316L / SA182F304)	72
64	80ROLSS	ROD TYPE PIPE CLAMP PS - SS	Stainless steel U-rod clamps ranging from NB15 to NB300 are being procured as per spec SA182F304 and BHEL drawings	13
SUB-DELIVERY MECHANICAL ITEMS				
65	80ATP	AIR TRAP	An air trap is a filtering device intended to remove contaminants from a compressed air supply. The main function of an air trap is the removal of moisture and oil from compressed air. Air traps shall be supplied with integral or separate Y-type strainers. • Size ranges from NB15 to NB25 • Socket weld / Screwed • Body material shall be A 216 WCB / A743GR-CA40 / A105	6
66	80BAV	BALL VALVES	Ball valves of specification SA105 / WCB are being procured as below: • Size NB15 to NB50 Class 800 and NB65 to NB150 Class 150 • Socket weld / Screwed / Flanged as per project requirement Stainless steel Ball valves of SS304 material are being procured as below: • Size ranging from NB 15 to NB 150 • End connection : SW / Flanged	26
67	80BFV	BUTTERFLY VALVES	• Size range: NB400 to NB600 • Design standard : AWWA C504 • Material : Class IS210 FG 260 • Operation : Manual / Motor operated • End connection : Flanged	72

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S. No.	Mat Group	Material Group Description	Detailed item description	Approx Annual Procurement Value in Lakhs
68	80CWP	COOLING WATER PUMP	<ul style="list-style-type: none"> Size Suction NB 80 / Discharge NB50 Type : Centrifugal / End suction and top discharge Flow : 10 cu.m/hr Head : 45m 	10
69	80GMV	GUN METAL VALVES	<ul style="list-style-type: none"> Types of gun metal valve being procured are Gate valve / Globe valve / Reg. Globe valve. Material: IS318 Gr. LTB-2 Size ranging from NB 15 to NB50 Screwed Used in Cooling water line Design standard: BS5154, Testing standard : IS 778 	9
70	80HOS	HOSES	<p>Following are the types of hoses being procured in standard lengths of 15 meters with the size range mentioned below:</p> <p><u>Air hose as per IS 446</u></p> <ul style="list-style-type: none"> Size ranging from NB15 to NB25 <p><u>Water hose as per IS444</u></p> <ul style="list-style-type: none"> Size NB25 <p><u>Oil hose as per IS635</u></p> <ul style="list-style-type: none"> Size ranging from NB40 to NB80 	8
71	80PLV	PLUG VALVES	<ul style="list-style-type: none"> Size NB50 to NB200 Design standard : API 6D Type: Taper type plug Material : SA 105 Seat: Metal seated Used in Fuel oil line 	2
72	80SSG	SPIRAL WOUND GASKETS	<ul style="list-style-type: none"> Material : SS304 / SS316 Thickness: 3.15 As per ASME B16.20 Used where design temperature is 250 deg Celsius and above 	11
73	80STT	STEAM TRAPS	<p>A steam trap is a device that removes condensate from a steam system</p> <ul style="list-style-type: none"> Thermodynamic / Ball float / Inverted Bucket steam traps are being procured with size ranging from NB15 to NB80 and socket welded connection. Thermostatic steam traps are being procured with size ranging from NB15 to NB25 and socket welded connection. 	20
74	80TEF	PTFE SHEETS	<p>Cut to Size Polytetrafluoroethylene (PTFE) Sheets of thickness ranging from 7mm to 10mm. It is used as lubricant in slide bearing connections.</p>	44
75	81BFP	BOILER FEED PUMP	<p>Pump for handling feed water of temperatures ranging from atmospheric to 105deg C, pressure ranging from atmospheric to 40 Kg/cm² (Guage) and flow rates ranging from 60 T/hr to 100 T/hr</p>	16
76	81DOS	DOSING SYSTEM	<p>HP dosing unit shall be skid mounted. High pressure chemical dosing system complete with one solution preparation tank and metering tank, dosing pumps (2x100% capacity) with motors, agitators and all accessories for pump stroke control including instrumentation, connected piping as required and all necessary relief/isolation/Non-return valves, strainers and fittings as required and specified and Condensate water supply piping as required for dosing system.</p> <ul style="list-style-type: none"> Medium to be handled: 10% Tri sodium phosphate Tank capacity : 2000 litres / 1700 litres / 1250litres / 500 litres as per project requirements Pump capacity : 100 litres/hr (or) 60 litres/hr 	73

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77	81LCP	CONDENSATE PUMP-LP	<ul style="list-style-type: none"> Size (Suction NB350 to NB600) / (Discharge NB250 to NB400) Type : Centrifugal / End suction top discharge / Side suction and side discharge Flow : 446/500/637 cu.m/hr Head : Approx 25m 	145
78	80MEB	METALLIC EXPANSION BELLOWS	Design and Manufacturing of Metallic Expansion Bellows shall meet EIMA requirements. All materials of construction shall be as per BHEL approved drawings/ data sheet and testing shall be as per BHEL QP ref: PC-MEB-QP.	22
79	80RGA	RUBBER GASKETS	<ul style="list-style-type: none"> Material : Neoprene rubber Thickness : 3.15mm 	3
80	81CFP	CERAMIC FIBRE PAPER	Usage - For application between overlapping of outer casing of insulation	6
81	81LRB	MINERAL WOOL MATTRESS	Operating temperatures - To withstand up to 80degC	213
82	81SLC	SEALING COMPOUND	Bitumen based sealing compound for sealing of insulation casing of high temperature insulation as per BHEL requirements.	5
83	80COV	CONTROL VALVES	<p>A control valve is a valve used to control fluid flow by varying the size of the flow passage as directed by a signal from a controller. This enables the direct control of flow rate and the consequential control of process quantities such as pressure, temperature, and liquid level.</p> <p>The opening or closing of automatic control valves is usually done by electrical, hydraulic or pneumatic actuators. Normally with a modulating valve, which can be set to any position between fully open and fully closed, valve positioners are used to ensure the valve attains the desired degree of opening.</p> <p>The following control valves are being procured with Body material SA105 / WCB and Class rating : Cl 150</p> <p>Ø CBD Level control valve ranging from NB50 to NB100</p>	51
84	80LCV	LP STARTUP CONTROL VALVE	<p>Ø SG DM CW control valve ranging from NB400 to NB550</p> <p>Ø Condensate pump min flow recirculation control valve approximately NB200</p> <p>Ø FTDT overflow service water mixing control valve approximately NB250</p> <p>Ø FTDT drain control valve approximately NB300</p> <p>The following sizes of control valves are being procured with Body material SA217WC9</p> <p>Ø Primary / Secondary SCAPH flow control valve</p> <ul style="list-style-type: none"> Size: NB150 to NB250 Class rating : Cl 300 <p>Ø FTDT level control valve</p> <ul style="list-style-type: none"> Approx size : NB450 Class rating: Cl 150 	63

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S. No.	Mat Group	Material Group Description	Detailed item description	Approx Annual Procurement Value in Lakhs
85	80PRD	PRDS	<p>Ø High capacity combined PRDS valve</p> <ul style="list-style-type: none"> • Approx size: Suction NB200 / Discharge NB600 • Body material: F91/ F92 • Class rating: Cl 2500/ Cl 3000 / Cl 3500 SPL <p>Ø Low capacity pressure Reducing valve</p> <ul style="list-style-type: none"> • Approx size: Suction NB150 / Discharge NB250 • Body material: WC9 • Class rating: Cl 600 / Cl 900 <p>Ø Common spray block valve</p> <ul style="list-style-type: none"> • Approx size: NB50 • Body material: SA105 • Class rating: Cl 300 <p>Ø High capacity / Low Capacity spray control valves</p> <ul style="list-style-type: none"> • Approx size: NB50 / NB40 • Body material: SA105 • Class rating: Cl 300 <p>Ø LT desuper heater</p> <ul style="list-style-type: none"> • Approx size: NB300 to NB450 • Body material: SA106GRB 	268
86	81EHT	ELECTRICAL - HEAT TRACING SYSTEM	Electrical Heating system for Heavy Fuel Oil in pipe lines	44
87	HCSNU	SNUBBERS	<p>The basic working principal behind a hydraulic snubber is that under slow(normal) speeds, a piston moves within a hydraulic reservoir pushing hydraulic fluid from the front to the back (or vice versa) of that reservoir. When an impulse load occurs and the piston tries to move at a high speed, a valve will close thereby restricting or blocking the movement of the fluid within the reservoir and subsequently locking the moving piston.</p> <ul style="list-style-type: none"> • Snubber type: Internal reservoir type • Load 10KN to 500 KN • Stroke length 150 to 400mm • Snubber length 600mm to 6000mm 	226



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Annexure B

General Eligibility criteria for new vendor application

S.No	Eligibility Criteria
1	The vendor should be a <u>MANUFACTURER</u> of the product. Wherever it is mentioned as “ <u>IBR Certification of Factory</u> ” in Mandatory documents for registration in Annexure-A, only IBR approved vendors shall apply for those products.
2	Vendor should have been in <u>continuous business of the product for minimum 3 years</u> . Benefits for start-up will be given as per the guidelines issued by Government of India
3	The vendor should <u>not have been referred to BIFR/NCLT</u> /any other negative feedback from other Government agency.
4	In case of foreign vendor, <u>a report from a reputed third party business rating agency</u> with complete details shall be produced.
5	Benefits for MSE vendors will be given as per MSME act.

Product specific requirement will be obtained at the time of evaluation of vendor application.