



Ref: NIT:OT/SDC/14-15/001
Dt.: 16th May 2014

BHEL, Ranipet invites Expression of Interest (Eoi) from Manufacturer-Suppliers of Engineering Raw materials & Components to be part of their Supply Chain for the following items.

Sl. No.	Material Category	Material Description	Details / Specification	Annual Procurement value (Rs. Lakhs)
1	RM006	COILS - CARBON STEEL	Used for manufacture of collecting electrodes for Electro static precipitators (ESP) and heating elements for air heaters (APH) by roll forming	18850
2	RM033	STRUCTURAL STEEL - ANGLES,BEAMS AND CHANNELS	IS 2062 / Used for structural fabrication.	9496
3	RM034	REROLLED STEEL STRUCTURALS	IS 2062 / Used for structural fabrication.	6350
4	RM044	WIDE FLANGED BEAMS/UNIVERSAL COLUMNS	Used for structural fabrication.	4278
5	RM030	STAINLESS STEEL - WIRE - COLD DRAWN	Used as emitting electrodes in Electro Static Precipitators(ESP) . Will be coiled into a spring form.	4267
6	RM019	ERW HOLLOWES	Used for structural purpose	3513
7	RM003	ALUMINIUM - PLATES , SHEETS , COILS & SECTIONS		2446
8	RM018	COILS - CORTEN STEEL	Used for manufacture of heating elements for air heaters by roll forming	2210
9	RM027	STEEL - UNEQUAL ANGLES	IS 2062 / Used for structural fabrication.	2153
10	RM009	CARBON STEEL TUBES - ERW - BLACK	Used for structural purpose	1909
11	SD425	PANEL TYPE HEATER FOR HOPPER	Heating the outer surface of ash silos of Electro static precipitator (ESP)	1490
12	SD405	ELECTRO FORGED FLOOR GRILLS	Used as walk ways	1375
13	RM039	STEEL - FLATS	IS 2062 & OTHERS /Used for structural fabrication.	1367
14	LD002	ACTUATOR-OPEN/CLOSE/REGULATING	Used as prime mover	1075
15	RM042	HASTE ALLOY SHEET	Used as seals for gates and dampers ASTM B575 UNS N 10276	1016
16	RM002	PLATES - ALLOY STEEL -A 387/A 588 GR. A &OTHERS	Used for structural fabrication.	888
17	SD154	IMPELLER BLADES FORGED RAW 11,12 SIZE	Blades for PA , SA , ID and industrial fans	709
18	SD419	PILLOW BLOCK & ACCESSORIES (ABOVE 8")	Used in fan shaft assembly	624
19	SD011	AL CASING & GI CASING SUPPORT	Used as supporting material to provide air gap between equipments and Insulation mats.	561
20	RM008	CARBON STEEL - ROUNDS	To specification IS 2062 GR A in various diameter	559
21	RM004	CARBON STEEL - BRIGHT BARS	Used for ESP rapping shafts / SA 105	546
22	SD275	STEAM COIL AIR PREHEATER	Used to Pre heat the air	505
23	SD201	OUTER ARM	Used as an anvil to hammer the panels of collecting electrodes in ESP	461
24	SD500	MOUNTING & DISMNG DEVICE FOR TLT500		413
25	SD055	CHAINS FOR GATES / SPROCKET/ CAM CLUTCH BOX	Used for drive assembly	410
26	RM046	STAINLESS STEEL - ROUNDS	various Dia from 12mm to 90mm to spec: SA 479 Typ 304	405
27	RM040	ALLOY STEEL - ROUNDS	To specification SA 193 B7 in various diameter	371
28	SD133	HEATING ELEMENTS	Used to heat the insulators externally to avoid condensation.	302
29	SD435	PILLOW BLOCK & ACCSRS-UPTO 8"(EXCEPT 7")	Used as bearing for fans	286
30	SD200	OPACITY MONITOR	Used to monitor dust concentration of the flue gas	275
31	SD002	ACTUATORS-ELECTRICAL(OPEN/CLOSE TYPE)	Used as prime mover to regulate movement of gate and damper blades	259
32	SD101	ELECTRICAL OPERATED HOIST (EOH)		256
33	RM045	CORTEN SHEETS	Corten steel sheet To specification CORTEN-A / ASTM A588 Gr B of various thickness x width	250
34	SD156	INNER ARM	To hold the outer arm in ESP	231
35	SD146	LOCK BOLT AND COLLAR	Used as fail safe fastening system in ESP.	229
36	SD437	IMPELLER BLADES(TLT DESIGN) - CAST FD	Baldes for PA , SA , ID and industrial fans. Aluminium diecast blades	215
37	RM028	STAINLESS STEEL - PLATES , SHEETS	ASTM A240 TP304 / Used structural fabrication	213
38	SD438	IMPELLER BLADES(TLT DESIGN) - CAST PA 6%	Blades for PA , SA , ID and industrial fans. Aluminium diecast blades	184
39	SD160	INTERLOCKS	As per BHEL Specification	164
40	LD027	BEARING HOUSING	Used for housing the gate shaft bearings	163



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41	SD019	ASH LEVEL INDICATOR (CAP TYPE)	Used to monitor ash level in ESP Capacitance type	158
42	LD005	BEARINGS (PILLOW BLOCK)	Used in Gate shaft assembly	106
43	SD298	TURBINE DRIVE FOR FAN (IMPORTED)		101
44	SD439	IMPELLER BLADES(TLT DESIGN) -CAST PA 10%	Blades for PA , SA , ID and industrial fans Aluminium diecast blades	101
45	SD003	ACTUATORS-ELECTRICAL(REGULATING TYPE)	Used as prime mover to regulate gate and damper	78
46	SD460	RAPCON	Electronic controller used in ESP	68
47	SD408	SPEED REDUCER - TYPE III	Gear Box used In APH drive assembly	67
48	LD026	SOLENOID VALVE	Used to regulate the flow of compressed air	66
49	SD109	FIBRE GLASS WOOL	For Acoustic Insulation	65
50	SD091	DODGE PILLOW BLOCK, ACCESSORIES (7" RT)	Used in fan shaft assembly	52
51	SD462	ENAMELLED HEATING ELEMENT	Used as heat transfer element in APH	51
52	SD291	THERMOSTAT	Temperature sensing and cut off	50
53	SD033	ROD END ASSY	Used as a linkage mechanism.	45
54	RM012	CASTING - STEEL - SUPPORT BEARING HOUSING	As per BHEL drawings	45
55	SD387	GI FLEXIBLE METALLIC CONDUIT WITH FITTIN	Used as protective casing for wires	43
56	SD008	AIR MOTOR	Used as stand by drive / APSQ-048	42
57	SD285	SWIVEL JOINTS (BARCO)	APSQ:018	35
58	SD371	COMMUNICATION INTERFACE MODULE		32
59	SD398	VIBRATION ISOLATION SYSTEM SPRING/DAMPER	Used in fan foundation	27
60	LD019	LIMIT SWITCH AND LEVER		26
61	LD016	ISOLATION VALVE	Used to isolate the blower air in gate assembly (butterfly type)	26
62	RM022	FORGINGS - STEEL - HEADER	Used in APH rotor fabrication	25
63	SD504	SILENCERS FOR FANS		20
64	SD098	EARTHING CABLE	Used for earthing of residual current / TEP:530:EC:G	18
65	SD255	SIMMER RINGS ,NUT RING & O-RINGS		18
66	SD372	INTELLI-COM CARD		18
67	SD193	NOZZLES FOR WATER WASHING MANIFOLD ASSY	Used in APH water washing system / APSQ:033	17
68	SD351	O RINGS (INDIGENOUS)	Used for sealing - rubber material	17
69	SD004	ACTUATORS-PNEUMATIC		17
70	SD418	PILLOW BLOCK & ACCESSORIES (7" XC)	Used as bearing for fans	17
71	SD363	IMPELLER BLADES FORGED RAW 16 SIZE	Blades for PA , SA , ID and industrial fans	17
72	SD454	5 APC REDUCER & SPARES (IMPORTED)	Used as drive gearbox for air preheaters	15
73	SD243	SCREW PUMP	APSQ:023 & 024	15
74	SD150	HYDRAULIC LIFTING CYLINDERS	As per BHEL Specification APSQ:032	14
75	SD458	GALV. CABLE TRAY FASTENERS	Galvanised Fastener	14
76	SD151	HYDRAULIC MOUNTING EQUIPMENT WITH HYD.NUT		12
77	SD312	WORM GEAR REDUCERS (2 STAGE)	APSQ:091	12
78	SD142	HOUSING SLEEVE	Used as a bearing sleeve in APH guide bearing	12
79	LD036	WAFER TYPE SWING CHECK VALVE		11
80	SD461	STATCON	Electronic controller used in ESP	11
81	SD525	VABN BEARINGS (SMALL SIZES)	Used in drive shafts	11
82	SD409	WELD MESH	Welded Mesh	10
83	SD517	PASSENGER CUM GOODS ELEVATOR		10
84	SD172	WORM GEAR ACTUATOR/ ROTARY LIMIT SWITCH & ADAPTOR	Used to regulate APH sealing system	9
85	RM048	SLEEVE BEARING (MACHINED)	As per BHEL Specification	9
86	SD167	LIGHT ASSEMBLY	As per BHEL Specification APSQ:056	9
87	SD118	FLOW SWITCH	As per BHEL Specification APSQ:067	9
88	SD457	SLOW TURNING DEVICE ASSEMBLY	Used as standby drive at idle condition of Hot air fans.	9
89	SD354	LINK CHAIN ASSEMBLY	Drive chain assembly	8
90	SD495	PISTON RING		8
91	SD119	FLUID COUPLING	As per BHEL Specification APSQ:051	8
92	SD036	BLOWER	Used sealing air system in gate and dampers	8
93	SD523	RF COMMUNICATION MODULE	AS PER ENGG SPEC	8
94	SD415	SET RING FOR EP SHAFT	As per BHEL Specification	7
95	SD169	LIMIT SWITCH	Used to regulate the direction / APSQ:052	7
96	SD058	CLIPS		7
97	SD090	DEE SHAKLE	APSQ:037 (D-shackle for lifting purpose)	7



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98	SD111	FIRE SENSING DEVICE (THERMOCOUPLE TYPE)	As per BHEL standard	7
99	SD264	SOLENOID VALVE	To regulate the service air / APSQ 028	7
100	LD013	GRAPHITE FILAMENT PACKING/GRAFOIL BRG.	used as bearing lubricant	7
101	SD128	GO SWITCH (MAGNETIC PROXIMITY SWITCH)	As per BHEL Specification APSQ:062	6
102	LD011	FILTER CUM LUBRICATOR	As per BHEL Specification	6
103	SD177	LUB OIL FILTERS	Used to filter lubricating oil / APSQ:055	6
104	SD511	ANGULAR POSITION TRANSMITTER		6
105	SD217	POP RIVET	Blind End Fastener	6
106	LD022	MANUAL OPERATED GEAR BOX	Used as drive mechanism in Gates and dampers	6
107	SD072	COVER FOR BEARING	castings as per BHEL drawing	6
108	SD379	BEARINGS-MISCELLANEOUS	Various sizes for ESP,Fans	6
109	SD374	PERSONAL COMPUTER		5
110	SD271	SPLIT THRUST COLLAR		5
111	LD046	SPECIAL COATING FOR SULPHUR CORROSION RESISTANCE	PROPRIETARY	5
112	SD054	CERAMIC FIBRE BLANKET INSULATION	As per BHEL Specification APSQ:039	5
113	SD488	COMPUTER SOFTWARES		5
114	SD162	JEWEL BEARING (FULLY MACHINED)	Bearings as per BHEL Specification	4
115	SD148	HYDRAULIC COUPLING (UPTO 300 KW)	Used in Fan drive assembly as speed control equipment	4
116	SD015	EMBLEM, DIRECTION, RATING, WARNING, ID PLATES	Enamelled Name Plates	4
117	SD380	UNIVERSAL JOINT ASSY		4
118	SD042	CABLE TAG		4
119	SD391	PC ADD-ON CARDS SERIAL, DIGITAL I/O ROM		4
120	SD258	SLIDING PLATE (TEFLON PLATE)		3
121	SD513	DOUBLE COLLAR SLEEVE BRG FOR D250 SHAFT		3
122	SD455	MACHINED COMPONENTS - MISC	As per BHEL Specification	3
123	SD492	PC INTERFACE / ADD-ON CARD		3
124	SD012	ANGULAR JOINT / ARTICULATE JOINT	As per BHEL Specification	3
125	SD287	TAPER LOCK BUSH & ADAPTOR	APSQ:059	3
126	SD114	FLEXIBLE COUPLING (LOVE JOY)	As per BHEL Specification APSQ:046	3
127	SD509	SS BELLOW JOINT FOR SET & INDICATE ASSY		3
128	SD410	SINTERED BUSH		3
129	SD373	PC TERMINATION BOX		3
130	SD110	FILTER LUBRICATOR & REGULATOR LUBRICATOR	Used to filter the service air / APSQ:016	2
131	SD449	DC MOTOR DRIVE PANEL	As per BHEL Specification	2
132	SD230	RESILIENT COUPLING /TORQUE LIMITER/BIBBY COUPLIN		2
133	SD499	LEVEL TRANSMITTER		2
134	SD087	DISCHARGE ROD	As per BHEL Specification TEP:531:DR:G	2
135	SD399	WORTHINGTON HUB	Tapped flanged bushing used in Air preheater	2
136	LD031	VIBRO DAMPER	As per BHEL Specification	2
137	SD362	NILOS RINGS	As per BHEL Specification	2
138	LD014	SELF ALIGNING BEARING WITH BUSH AND HOUSING		2
139	SD212	PIPE FITTINGS - ERMETO TYPE	As per BHEL Specification	
140	SD029	BEARING (SPHERICAL PLAIN)	Cast Iron machined support	
141	SD400	PRESSURE REGULATOR		
142	SD198	ON OFF SWITCH (APS 128)		
143	SD131	HEAT RESISTANCE GLASS	As per BHEL Specification APSQ:005	
144	SD183	METALLIC BELLOW ASSY	Used in assemblies for expansion	
145	SD508	BRGS FOR SETTING & INDICATNG SHAFT ASSY.		
146	FG008	PNEUMATICALLY OPERATED BUTTERFLY VALVES	As per BHEL Specification	
147	SD006	AIR BREATHER	As per BHEL Specification APSQ-014/01	
148	SD252	SHAFT PINS	Forged and fully machined stepped shaft as per BHEL drawing.	
149	SD094	DRAIN VALVE	As per BHEL Specification	
150	SD516	UPPER ROTOR POST PIN WITH WASHER	Used to locate the modular assembly	
151	SD451	CENTRIFUGAL CLUTCH COUPLING		
152	SD496	SCREW PUMPS FOR FANSLOS		



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153	SD427	HYD.COUPLING FOR INDL BLRS UPTO 1000 PST	As per BHEL Specification	
154	SD061	COMPENSATING CABLE FOR THERMOCOUPLE		
155	SD370	NAME PLATES		
156	SD051	CALCIUM SILICATE INSULATION	Insulating material as per BHEL Specification APSQ:008	
157	LD034	PNEUMATIC ACTUATOR		
158	SD515	AUTOMATIC FLOW CONTROL VALVE		
159	SD433	ADOPTER FOR SOFN BRG HOUSING		
160	SD512	EXCESS FLOW CHECK VALVE		
161	SD294	THREE WAY / TWO WAY BALL VALVE		
162	SD469	CABLE TERMINATION KIT		
163	SD501	ACOUSTIC ENCLOSURES FOR FANS		
164	SD489	BAG FILTER		
165	SD414	BAG HOLDING AND STITCHING SYSTEM		
166	SD533	BLADE SHAFT BUSH FOR TLT FANS		
167	SD359	BREATHER FILTER		
168	SD358	DIGITAL ANEMOMETER		
169	SD404	FGD SYSTEM		
170	SD164	LEVEL SWITCH		
171	LD044	LEVER BOSS ASPER BPS DRG		
172	SD360	OIL LEVEL GUAGE		
173	SD197	OIL SIGHT GLASS		
174	SD219	OVER FLOW VALVE (PR.RELIEF VALVE)		
175	LD039	UNION AS PER BPS DRG		
176	SD106	4 APC FALK REDUCER		
177	SD007	AIR FILTERS		
178	SD522	ANALOG & DIGITAL INPUT MODULE		
179	SD040	BURLING THERMOSTAT		
180	SD041	CABLE (FLAME RETARDENT LOW SMOKE)		
181	SD065	CONTROL PANEL FOR SCANNER DRIVE		
182	SD075	D.P. GAUGE		
183	SD081	DIAPHRAGM COUPLING		
184	SD096	DTPB/DTPA SHUT OFF VALVES		
185	SD137	HIGH PRESSURE GREASE PUMP		
186	SD138	HIGH TEMP THREAD COATING COMPOUND (PASTE)		
187	SD140	HOOK DRG. 4-79-023-00002		
188	SD152	HYDROTENSION EQUIPMENT		
189	SD168	LIGHTING TRANSFORMER		
190	SD175	LOCTITE		
191	SD194	NYLOCK NUT		
192	SD196	OIL FILTERS		
193	SD199	ONE WAY CLUTCH		
194	SD206	PENT HOUSE PURLIN MATLS		
195	SD246	SEALING COMPOUND		
196	SD521	SERIAL DEVICE SERVER AND ETHERNET SWITCH		
197	SD304	VIBRATION MONITORING SYSTEM (IMPORTED)		

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