



An ISO 9001
Company

Bharat Heavy Electricals Limited

(High Pressure Boiler Plant)

Tiruchirappalli – 620014, TAMIL NADU, INDIA

OUTSOURCING DEPARTMENT

TITLE	Phone: +91 431 257 4210 Email : james@bheltry.co.in
CORRIGENDUM for NIT 29629	

	Reference Number: Enquiry :NEW VENDORS REQUIRED FOR STEEL FABRICATION WITH BHEL MATERIAL	Enquiry Date: 30.09.2016	Due date for submission of quotation: 28.09.2017
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You are requested to quote the Enquiry number date and due date in all your correspondences. This is only an invitation for vendor registration and not an order

CORRIGENDUM No. 2

Details of Corrigendum
<p>1. Facility checklists for following products have been revised.</p> <ul style="list-style-type: none"> a. Hangers & Supports b. Metallic Expansion Bellows c. Oil System d. Punching, pressing, shearing & SS Fabrication including welding e. Foundation materials f. Oil Gun Assembly
<p>All other terms and conditions as published in the NIT_29629 remain unaltered.</p> <p>For any clarifications, please contact: Sub-contractor Development Cell (SCDC) Outsourcing, BHEL, Trichy. Mr. James / Manager (E-mail: james@bheltry.co.in ; Ph: 0431-257 4210) Mr. K G T Suvami /Sr. Engineer (E-mail: kgtsuvami@bheltry.co.in ; Ph: 0431-257 4254)</p>



BHARAT HEAVY ELECTRICALS LIMITED, TIRUCHIRAPALLI

OUTSOURCING

Checklist for vendor evaluation - Hangers & Supports

Doc No: SVCL:003/02 dated 11.11.2016

Vendor Name and Address:

Spot assessment date:

Part-A (Mandatory)

SI No	Paramter for evaluation	Minimum Required	As given by Firm	Actual Observed in Audit	Remarks	Ok/Not Ok
1	Land area (If land is taken under lease, registered lease deed for 3 yrs period is required)	0.9 Acres				
2	Fencing/Compound wall	All around				
3	EB Power	70 HP				
4	Covered shed	12m X 20m				
5	Heat Treatment Furnace with PID controller - 1 m x 1 m	1 No.				
6	Lathe - Spindle bore dia ranging from 25 to 100 mm	2 Nos, (minimum one lathe bore dia 100mm)				
7	Thread Rolling machine or Thread chasing machine	Dia upto 63 mm -1No				
8	Rod straightening machine	1No				
	OVEN:					
9	Electrode Oven	2 Nos				
10	Flask Oven	4 nos				

SI No	Paramter for evaluation	Minimum Required	As given by Firm	Actual Observed in Audit	Remarks	Ok/Not Ok
	CUTTING MACHINE:					
11	Gas cutting/Manual cutting torch	1 No				
	GRINDING & DRILLING MACHINES:					
12	Grinding machine (AG7 & Bench Type)	2 Nos				
13	Drilling Machine	1 No. (Dia –2inch)				
14	(SMAW)Welding M/c 400 Amps Inverter / Rectifier	4 Nos				
15	Air Compressor of 5HP rating, gun and U tube manometer combinations for painting	1 Set				
	INSPECTION FACILITIES					
16	LPI Kit	1 Set				
17	MPI Unit with calibration block (Prod type - 1000 A)	1 No				
18	Level II LPI/MPI qualified Personnel with valid certificate	1 Person				
19	RT/UT	In-house/Outsourced				
	MEASURING INSTRUMENTS					
20	Measuring tapes - 3m, 5m, 20m	each 1 No				
21	Vernier 0-300mm	1 No				

SI No	Paramter for evaluation	Minimum Required	As given by Firm	Actual Observed in Audit	Remarks	Ok/Not Ok
22	Bevel protractor	1 No				
23	Thread gauge	1 No				
24	IT Pan Card	Original to be offered for verification				
25	TIN No	Original to be offered for verification				
26	Excise Registration Certificate (for OVM vendors)	Original to be offered for verification				
27	Office room with 2 PC , internet facility and printer	Must				
	MATERIAL ACCOUNTING:					
28	Raw Material Clearance (For OVM Vendors)	Day Book Entry system				
29	Raw Material Testing (For OVM Vendors)	Access to testing labs of BHEL or Any other NABL approved lab				

NOTE_1:

A. Items in SI.no: 5,9,10,17,20,21,22,23 (Tapes - one time calibration) must have valid calibration certificate from any NABL accredited lab.

B. For SI.no: 19, earlier executed POs or valid agreement for facility tie-up must be produced.

Part-B (Optional)

1	Standby Generator availability					
	Capacity	--				
	Own/Registered/Lease	--				
2	Engraving/Dot punching type	--				
3	Stenciling Machine	--				

SI No	Paramter for evaluation	Minimum Required	As given by Firm	Actual Observed in Audit	Remarks	Ok/Not Ok
Part-C: Final Recommendation (for BHEL use only)						
Recommendation after checklist verification:						
Recommendation after spot assessment:						
Assessor.1-TCA (Spot assessment):			Assessor.2-Co-assessor (Spot assessment):			
Note 2:						
01	Part-A requirement is a must for qualifying the vendor. Hence, filling up all evaluation parameters is a must and all mandatory facilities shall be available at the time of spot assessment					
02	Part-B is only optional and need not be considered for disqualifying the vendor.					

**BHARAT HEAVY ELECTRICALS LIMITED, TIRUCHIRAPALLI****OUTSOURCING****Checklist for vendor evaluation - Metallic Expansion Bellows****Doc No: SVCL:005/03 dated 26.09.2016****Vendor Name and Address:****Spot assessment date:****Part-A (Mandatory)**

SI No	Paramter for evaluation	Minimum Required	As Given by Firm	Actual Observed in Audit	Remarks	Ok/Not Ok
1	Land area (If land is taken under lease, registered lease deed for 3 yrs period is required)	0.9 Acres				
2	Fencing/Compound wall	All around				
3	Power capacity	75 HP (3 phase)				
4	Covered shed	10m x 10m or 100 sq.m with minimum width of 8 m				
5	Material handling crane capacity with stability certificate (Mobile crane / EOT / A frame)	5 MT				
6	Shearing Machine (4 mm thickness & min 2.5 m width)	1 No				
7	Press Brake / Hydaraulic press with capacity of 50 T, 4 mm thickness & 2.5 m width with appropriate tooling to handle different varities as per drawing	1 No				

SI No	Paramter for evaluation	Minimum Required	As Given by Firm	Actual Observed in Audit	Remarks	Ok/Not Ok
	GRINDING MACHINE:					
8	Manual / Portable - AG 5/7	1 No each				
9	(SMAW) Welding M/c 400 Amps Inverter	2 Nos				
10	Manual gas cutting machine/torch	1 No				
	DRILLING MACHINE:					
11	Drilling machine - dia. 25 mm	1 No				
	INSPECTION FACILITIES:					
12	LPI kit	1 Set				
13	Kerosene leak test facilities	1 No				
14	Level II LPI/MPI qualified Personnel with valid certificate	1 Person				
	MEASURING INSTRUMENTS					
15	Tape 3m,5m,20m	each 2 Nos				
16	Vernier 0-200mm	1 No				
17	Try square	1 No				
18	Sprit level	1 No				
19	Straight Edge	1 No				

SI No	Paramter for evaluation	Minimum Required	As Given by Firm	Actual Observed in Audit	Remarks	Ok/Not Ok
20	IT Pan Card	Original must be offered for verification				
21	TIN No / VAT registration	Original must be offered for verification				
22	Excise Registration Certificate (for OVM vendors)	Original must be offered for verification				
23	Office room with 2 PC , internet facility and printer	Must				
	MATERIAL ACCOUNTING:					
24	Raw Material Clearance System (For OVM Vendors)	Day Book Entry system or likewise.				
25	Raw Material Testing (For OVM Vendors)	Access to testing labs of BHEL or Any other NABL approved lab				

NOTE_1:

A. Items in Sl.no: 15 & 16 (Tapes & Straight edge - one time calibration) must have valid calibration certificate from any NABL accredited lab.

B. For mobile cranes under lease, valid lease document must be produced at the time of spot assessment.

SI No	Paramter for evaluation	Minimum Required	As Given by Firm	Actual Observed in Audit	Remarks	Ok/Not Ok
Part-B (Optional)						
1	Horizontal bending using formers for Round corners	1 No				
2	Spectro Testing (AS/SS)	Access to testing labs of BHEL or Any other NABL approved lab				
3	Profile forming tool/die	Inhouse / Outsourced				
4	MPI Unit with calibration block (Prod type - 1000 A)	1 No				
Part-C: Final Recommendation (for BHEL use only)						
Recommendation after checklist verification:						
Recommendation after spot assessment:						
Assessor.1-TCA (Spot assessment):			Assessor.2 - Co-assessor (Spot assessment):			

<u>Important Notes :</u>	
01	Part-A requirement is a must for qualifying the vendor. Hence, filling up all evaluation parameters is a must and all mandatory facilities shall be available at the time of spot assessment
02	Part-B is only optional and need not be considered for disqualifying the vendor.

**BHARAT HEAVY ELECTRICALS LIMITED, TIRUCHIRAPALLI****OUTSOURCING****Checklist for vendor evaluation - Oil system (HFO/LFO)****Doc No: SVCL:014/01 dated 11.11.2016****Vendor Name and Address:****Spot assessment date:****Part-A (Mandatory)**

Sl No	Parameter for evaluation	Minimum Required	As given by Firm	Actual observed in Audit	Remarks	Ok/Not Ok
1	Land area . (If land is taken under lease, registered lease deed for 3 yrs period is required)	0.9 Acres				
2	Fencing/Compound wall	All around				
3	Covered Shed	10m x 12m				
4	Full fledged storage for electrical &sub delivery items	Racks with proper traceability for items stores				
5	EB Power	45 HP				
6	Material handling crane capacity with stability certificate (A frame / EOT /Mobile crane)	10 T				
7	Lathe for tube sheet, shell end cover &steam channel machining - (swing over bed 300mm)	1 No				
8	Oil bath with heating arrangement upto 500 degree celsius	1 No				
9	Plasma Cutting Machine	1 No				
10	Shearing/Bug Cutting Machine	1 No				
11	Tube expander with torque machine and expansion tool	Holding capacity size 17mm-1no , Tool Size 17mm - 5 nos				

SI No	Parameter for evaluation	Minimum Required	As given by Firm	Actual observed in Audit	Remarks	Ok/Not Ok
12	Tube Bending m/c with former (D21.3, R 45 & 60)	1 No				
13	Hydro test facilities with capacity 50 – 75 Kg/ sq cm , and pressure gauges	1 No, with 3 gauges (gauges must be calibrated)				
14	Air compressor of 5HP rating and gun for painting	1 set				
	OVEN					
15	Electrode oven	1 No				
	GRINDING & DRILLING MACHINES:					
16	Grinding machines (AG 7 AND AG 5)	2 Nos each				
17	Bench grinding machine	1 No				
18	Radial Drilling Machine with capacity for diameter of 32mm	1 No - With reamer and groover tools				
19	Welding Machine Invertor/Rectifier type with 400A	4 Nos.				
20	TIG Welding machine with accessories	1 No				
	INSPECTION FACILITIES					
21	MPI Unit with calibration block (Prod type - 1000 A)	1 No				
22	LPI Kit	2 Set				
23	Level II LPI,MPI qualified personnel with valid certificate	1 Person for each type.				

SI No	Parameter for evaluation	Minimum Required	As given by Firm	Actual observed in Audit	Remarks	Ok/Not Ok
	MEASURING INSTRUMENTS					
24	Measuring tapes - 5m, 15m	1 No each				
25	Vernier caliper - 600 mm	1 No				
26	Micrometer (0-25 mm)	1 No				
27	Dial gauge	1 No				
28	Bore dial gauge: 10-20 mm	1 No				
29	IT Pan Card	Original to be offered for verification				
30	TIN No	Original to be offered for verification				
31	Excise Registration Certificate (for OVM vendors)	Original to be offered for verification				
32	Office room with 2 PC, internet facility and printer	Must				
	MATERIAL ACCOUNTING:					
33	Raw Material Clearance System (For OVM Vendors)	Day Book Entry system				
34	Raw Material Testing (For OVM Vendors)	Access to testing labs of BHEL or Any other NABL approved lab				
NOTE_1: A. Items in SI.no: 15,21, 24,25,26,27,28 (Tapes - one time calibration) must have valid calibration certificate from any NABL accredited lab. B. For mobile cranes under lease, valid lease agreement must be produced.						

SI No	Parameter for evaluation	Minimum Required	As given by Firm	Actual observed in Audit	Remarks	Ok/Not Ok
Part-B (Optional)						
1	Standby Generator					
	Capacity (HP)					
	Owned or On rent					
2	ISO Certification					
Part-C: Final Recommendation (for BHEL use only)						
Recommendation after checklist verification:						
Recommendation after spot assessment:						
Assessor.1-TCA (Spot assessment):			Assessor.2 - Co-assessor (Spot assessment):			
Note 2:						
01	Part-A requirement is a must for qualifying the vendor. Hence, filling up all evaluation parameters is a must and all mandatory facilities shall be available at the time of spot assessment					
02	Part-B is only optional and need not be considered for disqualifying the vendor.					



BHARAT HEAVY ELECTRICALS LIMITED, TIRUCHIRAPALLI
OUTSOURCING

Checklist for vendor evaluation - Pressing, Punching, Shearing and SS Fabrication including welding

Doc No: SVCL:016/02 dated 11.11.2016

Vendor Name and Address:

Spot assessment date:

Part-A (Mandatory)

SI No	Paramter for evaluation	Minimum Required	As given by Firm	Actual observed in Audit	Remarks	Ok/Not Ok
1	Land area . (If land is taken under lease, registered lease deed for 3 yrs period is required)	0.5 Acre				
2	Fencing/Compound wall	All around				
3	EB Power	70 HP				
4	Shearing machine for a thickness of 10mm and width of min. 2.5 m	1 No				
5	Press Brake min.2.5 m width, min. 50MT capacity for a thickness upto 10mm	1 No				
6	Punching Machine min. 100T	1 No				
7	Painting Facility	1 No				
	OVEN					
8	Electrode Baking oven	1 No				
9	Electrode Holding oven	1 No				
10	Flask oven	3 Nos				
	CUTTING MACHINE:					
11	Gas cutting machine for a thickness of 10mm and width of min 2.5 m	1 No				

SI No	Paramter for evaluation	Minimum Required	As given by Firm	Actual observed in Audit	Remarks	Ok/Not Ok
	GRINDING & DRILLING MACHINES:					
12	Grinding Machine (AG-7 & AG-4)	2 Nos				
13	Drilling Machine for Dia upto 32mm	1 No				
14	Welding machines (Rectifier/Invertor type) - 400 A	2 Nos				
	INSPECTION FACILITIES					
15	LPI Kit	2 Set				
	MEASURING INSTRUMENTS					
16	Tape 3m,5m,20m	each 1 No				
17	Vernier 0-300mm	1 No				
18	Feeler Gauge	1 No				
19	Weld fillet gauge 25 MM	1 No				
20	Tri square	1 No				
21	Spirit level	1 No				
22	IT Pan Card	Original to be offered for verification				
23	TIN No	Original to be offered for verification				
24	Excise Registration Certificate (for OVM vendors)	Original to be offered for verification				
25	Office room with 2 PC, internet facility and printer	Must				
	MATERIAL ACCOUNTING:					
26	Raw Material Clearance System (For OVM Vendors)	Day Book Entry system				

SI No	Paramter for evaluation	Minimum Required	As given by Firm	Actual observed in Audit	Remarks	Ok/Not Ok
27	Raw Material Testing (For OVM Vendors)	Access to testing labs of BHEL or Any other NABL approved lab				
NOTE_1: A. Items in SI.no: 8,9,10,16,17,18 and 19 (Tapes - one time calibration) must have valid calibration certificate from any NABL accredited lab. B. For mobile cranes under lease, valid lease document must be produced at the time of spot assessment.						
Part-B (Optional)						
1	Preheating Burner	--				
2	Standby Generator	--				
	Capacity (HP)	--				
	Owned or On rent	--				
3	Stenciling	--				
Part-C: Final Recommendation (for BHEL use only)						
Recommendation after checklist verification: 						
Recommendation after spot assessment: 						
Assessor.1-TCA (Spot assessment): 			Assessor.2 - Co-assessor (Spot assessment): 			
Note 2:						
01	Part-A requirement is a must for qualifying the vendor. Hence, filling up all evaluation parameters is a must and all mandatory facilities shall be available at the time of spot assessment					
02	Part-B is only optional and need not be considered for disqualifying the vendor.					



BHARAT HEAVY ELECTRICALS LIMITED, TIRUCHIRAPALLI

OUTSOURCING

Checklist for vendor evaluation - Foundation Materials

Doc No: SVCL:021/01 dated 11.11.2016

Vendor Name and Address:

Spot assessment date:

Part-A (Mandatory)

Sl No	Parameter for evaluation	Minimum Required	As given by Firm	Actual observed in Audit	Remarks	Ok/Not Ok
1	Land area. (If land is taken under lease, registered lease deed for 3 yrs period is required)	0.9 Acres				
2	Fencing/Compound wall	All around				
3	EB Power	45 HP				
4	Covered shed	10M x 5 M				
5	Centre Lathe with threading facility (100 mm Dia) or Thread Rolling Machine.	2 Nos				
	OVEN:					
6	Electrode baking oven	1 No				
7	Flask Oven	1 No				
	GRINDING & CUTTING MACHINES:					
8	Bench Grinding	1 No				
9	Manual / Portable AG (Type 5&7)	2 Nos Each				

SI No	Parameter for evaluation	Minimum Required	As given by Firm	Actual observed in Audit	Remarks	Ok/Not Ok
10	Wire Wheel (for power tool cleaning)	1 Nos				
11	Cutting equipment- power saw cutting and gas cutting (for rod and bottom plates)	1 No each				
12	(SMAW)Welding M/c 400 Amps Inverter	2 Nos				
	INSPECTION FACILITIES					
13	LPI Kit	1 Set				
14	MPI Unit with calibration block (Prod type - 1000 A)	1 No				
15	Level II LPI/MPI qualified Personnel with valid certificate	1 Person				
16	Air Compressor of 5HP rating ,gun for painting	1 set				
	MEASURING INSTRUMENTS					
17	Tapes- 3m,5m,20m	each 2 Nos				
18	Micro Dial Gauge	2 Nos				
19	Vernier 0-200mm	1No.				
20	Weld fillet gauge 25 MM	1 no				
21	Ring Gauge/ Plug Gauges	As per Drg				
22	Straight Edge	1 No				
23	Tri square	1 no				
24	Spirit level	1 no				

SI No	Parameter for evaluation	Minimum Required	As given by Firm	Actual observed in Audit	Remarks	Ok/Not Ok
25	IT Pan Card	Original to be offered for verification				
26	TIN No	Original to be offered for verification				
27	Excise Registration Certificate (for OVM vendors)	Original to be offered for verification				
28	Office room with 2 PC, internet facility and printer	Must				
	MATERIAL ACCOUNTING:					
29	Raw Material Clearance System (For OVM Vendors)	Day Book Entry system or likewise.				
30	Raw Material Testing (For OVM Vendors)	Access to testing labs of BHEL or Any other NABL approved lab				
NOTE_1: A. Items in SI.no: 6,7,14,17,18,19,20,22 (Tapes & Straight Edge - one time calibration) must have valid calibration certificate from any NABL accredited lab.						

SI No	Parameter for evaluation	Minimum Required	As given by Firm	Actual observed in Audit	Remarks	Ok/Not Ok				
Part-B (Optional)										
1	Standby Generator									
	Capacity (HP)									
	Owned or On rent									
2	Furnace for Heat Treatment									
3	ISO Certification									
Part-C: Final Recommendation (for BHEL use only)										
Recommendation after checklist verification:										
Recommendation after spot assessment:										
Assessor.1-TCA (Spot assessment):			Assessor.2 - Co-assessor (Spot assessment):							
Note 2:										
01	Part-A requirement is a must for qualifying the vendor. Hence, filling up all evaluation parameters is a must and all mandatory facilities shall be available at the time of spot assessment									
02	Part-B is only optional and need not be considered for disqualifying the vendor.									

**BHARAT HEAVY ELECTRICALS LIMITED, TIRUCHIRAPALLI****OUTSOURCING****Checklist for vendor evaluation - Oil Gun Assembly****Doc No: SVCL:022/01 dated 11.11.2016****Vendor Name and Address:****Spot assessment date:****Part-A (Mandatory)**

SI No	Parameter for evaluation	Minimum Required	As given by Firm	Actual observed in Audit	Remarks	Ok/Not Ok
1	Land area. (If land is taken under lease, registered lease deed for 3 yrs period is required)	0.9 Acres				
2	Fencing/Compound wall	All around				
3	Covered Shed	10m x 15m				
4	EB Power	45 HP				
5	Full fledged covered storage for electrical & sub delivery items (covered shed for electrical items)	With racks and records for proper traceability				
6	Lathe (Dia 200 mm)	1 No				
7	Precision Drilling Machine Dia 8 mm	1 No				
8	Vertical Milling Machine	1 No				
9	Hydro test facilities for a pressure at least upto 75-100 kg/sq.cm	1 No with 3 calibrated gauges to suit the test pressure				

SI No	Parameter for evaluation	Minimum Required	As given by Firm	Actual observed in Audit	Remarks	Ok/Not Ok
	GRINDING & DRILLING MACHINES:					
11	Bench Grinding for tool grinding	1 No				
12	Manual / Portable AG (Type 5&7)	2 Nos Each				
11	Portable Drilling Machine with capacity for diameter of 32mm	1 No				
	CUTTING MACHINE:					
12	Plasma Cutting Machine	1 No				
13	Shearing/Bug Cutting Machine	1 No				
	OVEN:					
14	Electrode baking oven	1 No				
15	Electrode holding oven	1 No				
16	SMAW Welding Machine Invertor/Rectifier type with 400A	4 Nos.				
17	TIG Welding M/c and with accessories	1 No				
	INSPECTION FACILITIES					
18	LPI Kit	2 Sets				
19	MPI Unit with calibration block (Prod type - 1000 A)	1 No				

SI No	Parameter for evaluation	Minimum Required	As given by Firm	Actual observed in Audit	Remarks	Ok/Not Ok
20	Level II LPI/MPI qualified personnel with valid certificate	1 Person				
	MEASURING INSTRUMENTS					
21	Tape 3m, 15m	each 1 No				
22	Vernier 0-300mm	1 No				
23	Bore Dial gauge	1 No				
25	IT Pan Card	Original to be offered for verification				
26	TIN No	Original to be offered for verification				
27	Excise Registration Certificate (for OVM vendors)	Original to be offered for verification				
28	Office room with 2 PC, internet facility and printer	Must				
	MATERIAL ACCOUNTING:					
29	Raw Material Clearance System (For OVM Vendors)	Day Book Entry system				
30	Raw Material Testing (For OVM Vendors)	Access to testing labs of BHEL or Any other NABL approved lab				
NOTE_1: A. Items in Sl.no: 14,15,19,21,22,23 (Tapes - one time calibration) must have valid calibration certificate from any NABL accredited lab.						

Sl No	Parameter for evaluation	Minimum Required	As given by Firm	Actual observed in Audit	Remarks	Ok/Not Ok				
Part-B (Optional)										
1	Standby Generator	--								
	Capacity (HP)	--								
	Owned or On rent	--								
2	Nitriding	Inhouse/ Outsourced								
3	Hardness testing Facility	Inhouse/ Outsourced								
4	ISO Certification	--								
Part-C: Final Recommendation (for BHEL use only)										
Recommendation after checklist verification:										
Recommendation after spot assessment:										
Assessor.1-TCA (Spot assessment):			Assessor.2 - Co-assessor (Spot assessment):							
Note 2:										
01	Part-A requirement is a must for qualifying the vendor. Hence, filling up all evaluation parameters is a must and all mandatory facilities shall be available at the time of spot assessment									
02	Part-B is only optional and need not be considered for disqualifying the vendor.									