



**BHARAT HEAVY ELECTRICALS LIMITED, TIRUCHIRAPALLI**  
**OUTSOURCING**

428/004; 01.02.2017

**Checklist for vendor evaluation - Ceiling Girders**

**Doc No: SVCL:004/03 dated 31.08.2016**

**Vendor Name and Address:**

**Spot assessment date:**

**Part-A - (Mandatory)**

**Minimum experience required for Ceiling girders fabrication**

01	Report of past experience in fabricating similar jobs (Min 20 MT as assembly using plate above 40 mm thro' SAW process) for power projects of at least 250MW / other projects' structures accompanied by P.O copies, inspection report with dimensions issued by customer (or) client or track record for at least 2 BHEL - POs or 100MT completion for Auto welded Beams/Buckstays .
02	Spot evaluation of firm's quality (if qualified) including firm's personnel by BHEL on fulfilling the above requirement.

**Part-A1 - (Mandatory)**

Sl No	Paramter for evaluation	Minimum required	As given by Firm	As 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	100 HP (3 phase)				
4	Covered Shed	18 x 40m or 720 sq.m with minimum width of 18 m; minimum height between ground to bottom base of crane - 8 m				
5	Auto welding M/C(SAW) with track facility and 45 degree fixtures	2 Nos, Min 800 amps, track of min 20 mtr continuous length				

SI No	Paramter for evaluation	Minimum required	As given by Firm	As observed in Audit	Remarks	Ok/ Not Ok
6	Material handling crane facility (EOT/ Gantry)	To Handle 60 MT Single piece (single crane of 60 MT capacity or combination of multiple cranes with minimum capacity of 30 MTs each crane; cranes must be inside the covered shed and in single bay)				
	Track length for crane movement inside the covered shed	30 m				
	<b>GRINDING MACHINE</b>					
7	Bench Grinding	1 No				
8	Manual / portable grinding machine (AG)	2 Nos				
	<b>CUTTING &amp; DRILLING MACHINE:</b>					
9	Bug Cutting M/c	2 Nos				
10	Manual Cutting torch	2 Nos				
11	Drilling machine (Min 25 mm dia)	2 Nos				
	<b>OVEN</b>					
12	Flux baking oven (1 No. for each SAW Auto-welding work station)	2 Nos				
13	Electrode baking oven	1 No				
14	Electrode holding oven	1 No				
15	Flask Oven	5 Nos				
16	Pre heating & post heating	Burner with minimum length of 15 m.				
17	(SMAW)Welding M/c 400 Amps Inverter	5 Nos				

SI No	Paramter for evaluation	Minimum required	As given by Firm	As observed in Audit	Remarks	Ok/ Not Ok
	<b>INSPECTION FACILITIES</b>					
18	MPI Unit with calibration block (Prod type - 1000 A)	1 No				
19	LPI Kit	1 Set				
20	Level II LPI/MPI qualified Personnel with valid certificate	1 Person for each type.				
21	UT/RT facility with qualified personnel	Inhouse / Outsourced - BHEL approved source only				
	<b>MEASURING INSTRUMENTS</b>					
22	Tape 3m,5m,20m*	each 2 Nos				
23	Vernier 0-200mm	1 No				
24	Feeler gauge	1 No				
25	Weld fillet gauge 25 MM	1 No				
26	Straight edge	1 No				
27	Try square	1 No				
28	Spirit level	1 No				
29	Water level checking arrangement	1 No				
32	DFT Meter for painting	1 No				
33	Post welding heat treatment facilities (Electrical resistance upto 40 mm and induction heating above 40 mm)	Inhouse / Outsourced - BHEL approved source				
34	Blasting / Painting facility	Inhouse / Outsourced - BHEL approved source (Painting must be done by certified painter)				
35	IT Pan Card	Original to be offered for verification				
36	TIN No	Original to be offered for verification				
37	Excise Registration Certifcate (for OVM vendors)	Original to be offered for verification				
38	Office room with 2 PC , internet facility and printer	Must				

SI No	Paramter for evaluation	Minimum required	As given by Firm	As observed in Audit	Remarks	Ok/ Not Ok
	<b>MATERIAL ACCOUNTING</b>					
39	Raw Material Clearance System (For OVM Vendors)	Day Book Entry system or likewise.				
40	Raw Material Testing (For OVM Vendors)	Access to testing labs of BHEL or any other NABL approved lab				

**NOTE\_1:**

\* Tapes up to 5 m - Class II accuracy, above 5 m - Class I accuracy

A. Items in SI.no: 5, 12,13, 14, 15, 22, 23, 24, 25, 26, 32 (Tapes & Straight edge - one time calibration) must have valid calibration certificate from any NABL accredited lab.

B. For outsourced facilities, earlier executed POs or valid agreement for facility tie-up with BHEL approved source must be produced.

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

D. For SI no: 34, valid certificate must be produced for certified painter and painting inspection personnel.

**Part - B (Optional)**

1	<b>Standby Generator</b>					
	Capacity (KVA / HP)					
	Owned or On rent					
2	Stenciling					
3	Punching Machine					

**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):**

**Important Notes :**

01	<b>Part-A, A1 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</b>
02	<b>2. Part-B is only optional and need not be considered for disqualifying the vendor.</b>