

Bharat Heavy Electricals Limited

(High Pressure Boiler Plant)
Tiruchirappalli – 620014, TAMIL NADU, INDIA
OUTSOURCING DEPARTMENT

TITLE	Phone: +91 431 257 4210
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CORRIGENDUM for NIT 29082	,

Reference N Enquiry VENDORS RI FOR ST FABRICATIO VENDOR MA	:NEW 24.08.201 EQUIRED EEL ON WITH	
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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. 1

Details of Corrigendum

- 1. Facility checklists for following products have been revised.
 - a. General Fabrication, Stairs & Ducts assembly
 - b. Columns
 - c. Ceiling Girders
 - d. Autowelded beams & buckstays

All other terms and conditions as published in the NIT_29082 remain unaltered.

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)



BHARAT HEAVY ELECTRICALS LIMITED, TIRUCHIRAPALLI

OUTSOURCING

Checklist for vendor evaluation - General Fabrication, Stairs and Ducts assembly

Doc No: SVCL:026/02 dated 26.09.2016

۷	endor	Name	and	Addr	ess:
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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	0.9 Acres				
	lease, registered lease deed for 3 yrs					
	period is required)					
2	Fencing/Compound wall	All around				
3	Power (MIN)	45 HP				
4	Covered Shed	10 M X 10 M or equivalent to 100				
		sq.m with minimum width of 8 m				
5	Three roller bending machine (for min					
,	7 mm plate thickness)	approved source only)				
6		10 MT (Mobile crane may be owned				
	· ·	or under lease)				
	frame / EOT)					
	OVEN:					
7	Electrode baking oven	1 No				
8	Electrode holding oven	1 No				
9	Flask Oven	4 nos				
	CUTTING MACHINE:					
10	Manual Gas Cutting	2 Nos				
	GRINDING & DRILLING MACHINES:					
11	Bench Grinding	1 No				
12	Manual / Portable AG (Type 5&7)	2 Nos Each				
13	Drilling machine (Min 25 mm)	1 No				

SI No	Parameter for evaluation	Minimum Required	As given by Firm	Actual observed in Audit	Remarks	Ok/Not Ok
14	Portable drilling machine (Min 16 mm)	1 No				
15	(SMAW)Welding M/c 400 Amps	4 Nos				
	Inverter					
	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	Blasting / Painting facility	Inhouse / Outsourced from BHEL approved source				
	MEASURING INSTRUMENTS					
20	Tape 3m,5m,20m (with Class I accuracy)	each 2 Nos				
21	Vernier 0-200mm	1 No				
22	Feeler Gauge	1 No				
23	Weld fillet gauge 25 MM	1 No				
24	Straight Edge	1 No				
25	Try square	1 No				
26	Sprit level	1 No				
27	Water level checking arrangement	1 No				
28	IT Pan Card	Original to be offered for verification				
29	TIN No	Original to be offered for verification				
30	Excise Registration Certifcate (for OVM vendors)	Original to be offered for verification				
31	Office room with 2 PC, internet facility and printer	Must				

SI No	Parameter for evaluation	Minimum Required	As given by Firm	Actual observed in Audit	Remarks	Ok/Not Ok
	MATERIAL ACCOUNTING:	·	j			
22	Raw Material Clearance System (For	Day Book Entry system or likewise.				
32	OVM Vendors)					
33	Raw Material Testing (For OVM	Access to testing labs of BHEL or Any				
	Vendors)	other NABL approved lab				
NOTE	_1:					
	ms in Sl.no: 7, 8, 9, 18, 21, 22, 23, 24	and 25 (Tapes & Straight edge - o	ne time calibration) must	have valid calibration certific	ate from any NABL	
accre	ditated lab.				_	
B. Fo	r Sl.no: 5 and 20 earlier executed PC	s or valid agreement for facility tie	-up with BHEL approved s	ource must be produced.		
	r mobile cranes under lease, valid le	•		<u>. </u>		
		Part-B (O	•			
	Standby Generator	1 411 2 (3				
1	Capacity (HP)					
'	Owned or On rent					
2	ISO Certification					
_						
		Part-C: Final Recomn	nendation (for BHEL us	se only)		
Door	mmendation after checklist verificat		iciliation (loi bille us	e only)		
Reco	illinendation arter checklist vernicat	ion.				
Reco	mmendation after spot assessment:					
Λ	and 1 TCA (Chat accessment).			(Cm at accomment).		
Asses	ssor.1-TCA (Spot assessment):		Assessor.2 - Co-assessor	(Spot assessment):		
Impo	rtant Notes :					
01	Part-A requirement is a must for qu	Jalifying the vendor. Hence filling	up all evaluation paramete	ers is a must and all mandato	ry facilities shall be	available
	at the time of spot assessment		ap an oranganon paramot		. ,	
02	Part-B is only optional and need no	ot be considered for disqualifying the	he vendor.			

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	m h h m n		SOURCING			
		Checklist for vendor evaluation		ms and Buck Stavs		
Doc I	No: SVCL:024/02 dated 26.09.2016			no ana Baok Grajo		
	dor Name and Address:					
Vend	doi 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,	0.9 Acres				
	registered lease deed for 3 yrs period is					
	required)					
2	Fencing/Compound wall	All around				
3	Power capacity	100 HP (3 phase)				
4	Covered shed	12M X 14M or 168 sq.m with				
		minimum width of 10 m				
5	Auto welding M/C(SAW) with track facility	2 Nos, Min 800 amps, track of min				
	and 45 degree fixtures	20 mtr continuous length				
6	Material handling crane facility with	20 MT (Combination of multiple				
	stability certificate (EOT/A frame/ Gantry	cranes with minimum capacity of				
	/ Mobile crane)	12 MTs each crane is also				
		acceptable. Mobile crane may be				
		owned or under lease)				
7	Hydraulic warpage removal machine (Min	1 No				
	500 MT capacity) or Hydraulic press (Min					
	500 MT capacity) or Beam straightening					
	machine (Min 500 MT capacity)					

SI No	Parameter for evaluation	Minimum Required	As given by Firm	Actual observed in Audit	Remarks	Ok/ Not Ok
	OVEN:					
8	Flux baking oven (1 No. for each SAW Auto-welding work station)	2 Nos				
10	Electrode baking oven	1 No				
11	Electrode holding oven	1 No				
12	Flask Oven	5 Nos				
	CUTTING MACHINE:					
13	Bug cutting machine	2 Nos				
14	Manual cutting torch	2 Nos				
15	(SMAW)Welding M/c 400 Amps Inverter	5 Nos				
	GRINDING & DRILLING MACHINES:					
16	Bench Grinding	1 No				
17	Manual / Portable AG	2 Nos				
18	Drilling M/c (Min 25 mm dia)	2 Nos				
	INSPECTION FACILITIES					
	LPI kit	1 Set				
20	MPI Unit with calibration block (Prod type - 1000 A)	1 No				
21	Level II LPI/MPI qualified Personnel with valid certificate	1 Person				
	MEASURING INSTRUMENTS					
22	Tape 3m,5m,20m (with Class I accuracy)	each 2 Nos				
23	Vernier caliper 0-200mm	1 No				
24	Feeler gauge	1 No				
25	Weld fillet gauge (25 mm)	1 No				
26	Straight edge	1 No				

SI No	Parameter for evaluation	Minimum Required	As given by Firm	Actual observed in Audit	Remarks	Ok/ Not Ok
27	Try square	1 No				
28	Spirit level	1 No				
29	DFT meter for painting	1 No				
30	Water level checking arrangement	1 No				
31	Riasting / Painting facility	Inhouse / Outsourced (from BHEL approved source only)				
32		Original must be offered for verification				
33	•	Original must be offered for verification				
34		Original must be offered for verification				
1.35	Office room with 2 PC , internet facility and printer	Must				
	MATERIAL ACCOUNTING:					
1.30	•	Day Book Entry system or likewise.				
37		Access to testing labs of BHEL or Any other NABL approved lab				

NOTE_1:

A. Items in Sl.no: 5, 8 - 12, 20, 22, 23, 24, 25, 26, 29 (Tapes & Straight edge - one time calibration) must have valid calibration certificate from any NABL accreditated lab.

B. For Sl.no: 31, 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.

SI No	Parameter for evaluation	Minimum Required	As given by Firm	Actual observed in Audit	Remarks	Ok/ Not Ok
		Part	-B (Optional)			
	Standby Generator :					
1	a Capacity (HP)					
	Part-B (Optional) andby Generator: lapacity (HP) Dwned or On rent ectrometer (applicable for alloy steel orication) Part-C: Final Recommendation (for BHEL use only) mendation after checklist verification: mendation after spot assessment: Assessor.2 - Co-assessor (Spot assessment): art-A requirement is a must for qualifying the vendor. Hence, filling up all evaluation parameters is a must and all mandation and the spot assessment and all mandation.					
2	Spectrometer (applicable for alloy steel fabrication)	Inhouse/Outsourced				
3	ISO Certification					
		Part-C: Final Recom	mendation (for BHEL us	se only)		
	mmendation after spot assessment:		T			
Asses	ssor.1-TCA (Spot assessment):		Assessor.2 - Co-assessor (Spot assessment):		
Note_	<u>2:</u>		·			
	Part-A requirement is a must for qualify spot assessment	ng the vendor. Hence, filling up all e	evaluation parameters is a	must and all mandatory f	acilities shall be availab	e at the time of
02	Part-B is only optional and need not be cons	idered for disqualifying the vendor.				

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	HHEL	0	UTSOURCING			
		Checklist for vende	or evaluation - Ceiling (Girders		
Doc No	o: SVCL:004/03 dated 31.08.2016		<u> </u>			
Vendo	or Name and Address:					
Spot ass	essment date:					
		Par	t-A - (Mandatory)			
	n experience required for Ceiling girders fab					
01	Report of past experience in fabricating sin structures accompanied by P.O copies, ins Beams/Buckstays.	pection report with dimensions issued	by customer (or) client or trac	k record for at least 2 BHEL - POs o		
02	Spot evaluation of firm's quality (if qualifie	d) including firm's personnel by BHEL of	on fulfiling the above requiren	nent.		
		Part	t-A1 - (Mandatory)			
SI 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				

Auto welding M/C(SAW) with track facility and 2 Nos, Min 800 amps, track of min 45 degree fixtures 20 mtr continuous length

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 GRINDING MACHINE	30 m		
7	Bench Grinding	1 No		
8	Manual / portable grinding machine (AG)	2 Nos		
	CUTTING & DRILLING MACHINE:			
9	Bug Cutting M/c	2 Nos		
10	Manual Cutting torch	2 Nos		
11	Drilling machine (Min 25 mm dia)	2 Nos		
	OVEN			
12	Flux baking oven (1 No. for each SAW Autowelding work station)	2 Nos		
13	Electrode baking oven	1 No		
14	Electrode holding oven	1 No		
15	Flask Oven	5 Nos		
	Pre heating & post heating	Burner with minimum length of 15 m.		
17	(SMAW)Welding M/c 400 Amps Inverter	5 Nos		

SVCL:004/03_Ceiling girders

SUPPLIER'S AUTHORISED SIGNATURE AND SEAL

	INSPECTION FACILITIES			
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		
	MEASURING INSTRUMENTS			
22	Tape 3m,5m,20m (Class I accuracy)	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		

	MATERIAL ACCOUNTING						
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: 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 accreditated 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.							
		F	Part - B (Optional)				
1	Standby Generator						
	Capacity (KVA / HP)						
	Owned or On rent						
2	Stenciling						
3	Punching Machine						
		Part-C: Final Reco	ommendation (for BHEL use only)			
Recomm	endation after checklist verification:						
Recomm	endation after spot assessment:						
Assessor.1-TCA (Spot assessment):			Assessor.2 - Co-assessor (Spot assessment):				
Importa	nt Notes :						
01	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					of spot	
02	2. Part-B is only optional and need not be considered for disqualifying the vendor.						

SVCL:004/03_Ceiling girders

SUPPLIER'S AUTHORISED SIGNATURE AND SEAL

	बी एच ई एन	BHARAT HEAVY ELECTR	RICALS LIMITED, TIRUCHIE	RAPALLI		
	BHEL		JTSOURCING .			
		Checklist for ver	ndor evaluation - Column	s		
Doc N	No: SVCL:001/04 dated 26.09.2016				-	
Vend	dor Name and Address:					-
Spot	assessment date:					
			A - (Mandatory)			
	num experience required for Column Fab					
01		similar jobs (Min 20 MT as assembly using p				
		inspection report with dimensions issued by	y customer (or) client or track	record for at least 2 BHEL - POs or 10	00MT completion fo	or Auto welded
	Beams/Buckstays .					
02	Spot evaluation of firm's quality (if quality	ified) including firm's personnel by BHEL on		ent.		
		Part-A	11- (Mandatory)			
SI No	Paramter for evaluation	Minimum Required	As Given by Firm	Actual Observed in Audit	Remarks	Ok/Not O
01	Land area (If land is taken under lease,	0.9 Acres				
	registered lease deed for 3 yrs period is					
	required)					
02	Fencing/Compound wall	All around				
03	Power capacity	100 HP (3 phase)				
04	Covered shed	12M X 14M or 168 sq.m with minimum				
		width of 10 m				
05	Auto welding M/C(SAW) with track	2 Nos, Min 800 amps, track of min 20				
	facility and 45 degree fixtures	mtr continuous length				
06	Hydraulic warpage removal machine	1 No				
	(Min 500 MT capacity) or Hydraulic press					
	(Min 500 MT capacity) or Beam					
	straightening machine (Min 500 MT					
<u></u>	capacity)					
07	Roller Supports for Individual Column	14 Nos. (Open area length Min :85 M)				
	Pieces - Column Assembly					
80	End machining (milling or any machining					

SVCL:001/04_Columns

SUPPLIER'S AUTHORISED SIGNATURE AND SEAL

process) set up to obtain rest plate/ cap | Inhouse / Outsourced (from BHEL

approved source only)

handle 60 MT single piece

Combination of maximum two cranes to

plate flatness of 0.1 mm accuracy

Material handling crane facility with

fabrication and assembly (EOT/A frame/

stability certificate for column

Gantry / Mobile crane)

	CUTTING & DRILLING MACHINE:					
10	Bug cutting machine	2 Nos				
11	Manual gas cutting torch	2 Nos				
12	Drilling machine - Column Assembly	Radial / Column drilling machine - 1 no,				
		Portable (Magnet type) - 2 Nos				
	OVEN:					
13	Flux baking oven (1 No. for each SAW	2 Nos				
	Auto-welding work station)					
14	Electrode baking oven	1 No				
15	Electrode holding oven	1 No				
16	Flask Oven	5 Nos				
17	Pre heating	Burner with 15 m minimum length.				
18	(SMAW)Welding M/c 400 Amps Inverter	5 Nos				
	INSPECTION FACILITIES					
19	MPI Unit with calibration block (Prod	1 No				
	type - 1000 A)					
20	LPI Kit	1 Set				
21	Level II LPI/MPI qualified Personnel with	1 Person for each type.				
	valid certificate					
	MEASURING INSTRUMENTS					
22	Tape 3m,5m,20m (with Class I accuracy)	each 2 Nos				
23	Vernier caliper 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				
30	Air Compressor of 3 HP rating	1 set				
31	IT Pan Card	Original to be offered for verification				
32	TIN No	Original to be offered for verification				
33	Excise Registration Certificate (for OVM vendors)	Original to be offered for verification				
34	Office room with 2 PC , internet facility	Must				
	and printer					
	MATERIAL ACCOUNTING					
32	Raw Material Clearance System (For	Day Book Entry system or likewise.				
	OVM Vendors)	.,				
33	Raw Material Testing (For OVM	Access to testing labs of BHEL or any				
	Vendors)	other NABL approved lab				
NOT			1	1	1	1

A. Items in Sl.no: 5, 13-16, 19, 22, 23, 24, 25, 26 (Tapes & Straight edge - one time calibration) must have valid calibration certificate from any NABL accreditated 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.

Part - B (Optional)							
01	ISO Certification						
02	Stenciling	Off cuts identification (using metal					
		markers). Spectro machine preferable					
03	Post welding Heat Treatment Facilities	Inhouse / Outsourced (from BHEL					
	(Electrical Resistance upto 40 mm and	approved source only)					
	induction heating above 40 mm)	арричина интр					
	lindadion nodding above 10 min,						
04	Templates and Shop made gauges	As per product requirements					
04 05	UT/RT	Inhouse / Outsourced (from BHEL					
		approved source only)					
06	Blast cleaning	Inhouse / Outsourced (from BHEL					
		approved source only)					
07	Punching Machine						
80	CNC cutting machine						
09	Standby Generator						
	Capacity (HP)						
	Owned or On rent/hire						
		Part-C: Final Reco	nmendation (for BHEL use only)				
Reco	mmendation after checklist verification:						
Recoi	mmendation after spot assessment:						
NCCOI	illiendation after spot assessment.						
Asses	sor.1-TCA (Spot assessment):		Assessor.2 - Co-assessor (Spot assessment):				
NOTE_2:							
01	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							
02	Part-B is only optional and need not be considered for disqualifying the vendor.						

SVCL:001/04_Columns SUPPLIER'S AUTHORISED SIGNATURE AND SEAL