

भारत हेवी इलेक्ट्रिकल्स लिमिटेड

सामग्री प्रबंधन विभाग

डाकघर: भेल, झाँसी पिनकोड 284120 (उत्तर प्रदेश)

टेलीफोन: 0510-2412734, ई-मेल: mulayam@bhel.in & vmgupta@bhel.in



क्रय इंकवारी सं. E3599002

पावर ट्रांसफार्मर के टैंक और इसके सहायक उपकरणों के फैब्रिकेशन और सप्लाइ का टेण्डर डोक्युमेंट्स
(फिनिश आधारित)

**TENDER DOCUMENT OF TWO YEARS FRAMEWORK AGREEMENT (FA) FOR FABRICATION OF
POWER TRANSFORMER TANK WITH ACCESSORIES / ONLY ALLIED TANK PARTS
(ACCESSORIES) ON FINISH BASIS**

क्र. सं.	विवरण	सिड्यूल सं.	पृष्ठ सं.
1	रेट कॉन्ट्रैक्ट निविदा की अर्हतायें और मात्रा Qualifying Criteria and Quantities covered by the Rate Contract	सिड्यूल -I Schedule-I	2
2	टैंडर भरने के निर्देश Instructions for Submission of Tender	सिड्यूल--II Schedule-II	3 से 6
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Ch. Singh 30.5.19	V M Gupta 30.5.19	C V Rao 30.5.19
Prepared by	Checked by	Approved by
Ch Mulayam Dy. Manager-MM	V M Gupta, DGM(MM)	C V Rao, AGM (MM-H)

Schedule - I

Quantity Covered Under Rate Contract and Qualifying Criteria:

सामग्री की वार्षिक आवश्यकता निम्न प्रकार होगी:

Two years requirement of material shall be as under:

Enquiry Item No.	Item Description	Quantity
1	BOTTOM TANK ASSY TO DRG NO04631750011/02, EBOM VER-02 TOP TANK ASSY TO DRG NO 04631650017/07, EBOM VER-09 TANK COVER ASSY TO DRG NO 14631850005/03, EBOM VER-04 RADIATOR P/W ASSY TO DRG NO 04634350017/01, EBOM VER-02 HEADER P/W ASSY TO DRGNO 14634350015/01, EBOM VER-01 AUX CONS P/W ASSY TO DRG NO 14635250016/02, EBOM VER-02 MAIN CONS P/W ASSY TO DRG NO 04635150014/03, EBOM VER-03 OUT SIDE FITTING TO DRG NO 04631950014/01, EBOM VER-02 LV& HVN TURRET ASSY TO DRG NO 14632150025/01, EBOM VER-01 HV TURRET ASSYT TO DRG NO 14632150027/01, EBOM VER-02 ALL ITEM AS PER ANNEXURE'A' SL NO A/01 TO A/109. DRAWINGS AND ANNEXURE MENTIONED IN ITEM DESCRIPTION IS FOR REFERENCE ONLY. ACTUAL DRAWINGS & ANNEXURE WILL CHANGE FROM PO TO PO.	300Sets/6600,000.00 Kgs. (± 30 %)

उपरोक्त आवश्यकता अनुमानित है जो कि ± 30 % कम या अधिक हो सकती है। जो कि भेल की आर्डर बुक स्थिति के ऊपर निर्भर करेगा।

Above requirement is tentative and quantity variation shall be ± 30 %. Variation can vary in any proportion both on positive and negative side depending upon BHEL's requirement and order book position.

Qualification shall be as under:

Minimum reserved capacity of bidder must be 40 MT per month for this tender.

Only the suppliers who meet the 'Qualifying Requirements (Annexure A to Schedule I)' and provide the declaration regarding availability of 'Mandatory Resource Requirements (Annexure B to Schedule I)' shall be eligible for this tender process. Deviations shall not be accepted and the offers of bidders who make false declarations are liable to be rejected. The details in 'Qualifying Requirements (Annexure A to Schedule I)', 'Declaration of Mandatory Resource Requirements' (Annexure B to Schedule I) and Information on Desirable Resource Requirements' (Annexure C to Schedule I) enclosed to this Schedule I should be filled and submitted along with the necessary documentation (wherever called for).

Signature of Supplier :
Name :
Designation :
Seal :
Phone No :
E-mail ID :

Schedule - II

टेंडर भरने के निर्देश

INSTRUCTIONS FOR SUBMISSION OF TENDER

Schedule- II

1. The offers against the enquiry shall be submitted in two parts.

Technical Bid (Part – A):-

- (A1)- Duly filled & signed Enquiry Document Page 2 to 48.
(A2)- Blank Price bid (Un Priced) duly signed (Page no. – 49)
(A3)- Annexure A, B, C, A1 and A2 to Schedule-I, ,

Price Bid (Part – B):-

- (B1)- Price bid duly filled & signed (Page no. - 49)

2. The vendors shall submit Part-A and Part-B of their bids in two different sealed envelopes duly super-scribing Enquiry No. and Part No. of the bid. These two parts of the bid shall be kept together in a third envelope super-scribing Enquiry No., due date and time of opening as indicated in the tender document.
3. Part-A of the bid alone shall be opened on the due date in presence of the tenderers in the first instance. This part of the bid shall be examined in detail. Part B of the bid shall be opened only for such of the tenderers whose Techno-Commercial offers are found acceptable by BHEL. Such tenderers shall be advised the date and time of opening of Part B i.e. price part of their bids. Tenderers must carefully go through all the instructions and conditions before filling in Part B of the bid. Any type of mistake in submission of the bids will make the tender liable for rejection.
4. The bids shall be submitted only in the format given in the tender documents. It may be noted that each page of the tender document has been signed by BHEL. While submitting the bid, these very pages are to be used in original. The tenderer is also required to sign and stamp each and every page of the tender document clearly bring out deviations, if any.
5. Tenders not complying with the above and other requirements of the tender shall be liable for rejection. Tenderers are therefore advised to read all the documents carefully before submission of the bids and ensure the fulfillments of all the technical and commercial parameters.



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Schedule - II

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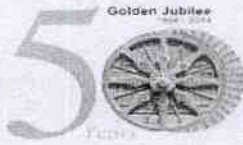
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6. It must be clearly understood that the orders released against this tender enquiry shall be governed by the General terms & conditions of the contract as preprinted overleaf of the enquiry. No deviation from these conditions is permitted.
7. Corrections in the bid should normally be avoided. However, when these become essential, bidder shall score out the incorrect information and put the correct information duly endorsing each correction with his signatures.
8. General terms and conditions of the REVERSE AUCTION shall be generally as per schedule VII. However, final terms & condition shall be intimated after techno-commercial evaluation of the tender.





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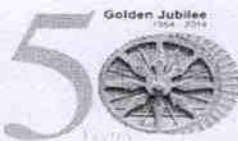
For clarification & support in submission of tender, the contact details are as follows:

Name and Contact Details of the Person for Queries in the Tender	(1) V M Gupta DGM/MM, BHEL Jhansi Phone: - 0510-2412614 Email: - vmgupta@bhel.in	(3) Pravindra Kumar Sr. Engineer/MM BHEL Jhansi Phone: - 0510-2412616 Email: - pravindra@bhel.in
	(2) Ch. Mulayam Dy. Manager/MM, BHEL Jhansi Phone: - 0510-2412734 Email: - mulayam@bhel.in	(4) Shravan Kumar Dy. Engineer/MM, BHEL Jhansi Phone: - 0510-2412387 Email: - shravan.kumar@bhel.in
Last Date of Submission of the Tender through e-Procurement system	_____ 13:15 Hrs.	
Tender Opening Date	_____ 14:00 Hrs.	

Tenders not complying with the above and other requirements of the tender shall be liable for rejection. Tenderers are therefore advised to read all the documents carefully before submission of the bids and ensure the fulfillments of all the technical and commercial parameters. Bidder shall be responsible for completion of the contract in all respects.



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Integrity Pact (IP)

(a) IP is a tool to ensure that activities and transactions between the Company and its Bidders/ Contractors are handled in a fair, transparent and corruption free manner. A panel of Independent External Monitors (IEMs) have been appointed to oversee implementation of IP in BHEL.

The IP as enclosed with the tender is to be submitted (duly signed by authorized signatory who signs in the offer) along with techno-commercial bid. Only those bidders who have entered into such an IP with BHEL would be competent to participate in the bidding. In other words, entering into this Pact would be a preliminary qualification.

Details of IEM for this tender is furnished below:

Details of IEM for this tender is furnish below:

Name	Shri Pravin Tripathi, IAS (Retd.)
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(b) Please refer Section-8 of IP for Role and Responsibilities of IEMs. In case of any complaint arising out of the tendering process, the matter may be referred to the IEM mentioned in the tender.

Note:

No routine correspondence shall be addressed to the IEM (phone/ post/ email) regarding the clarifications, time extensions or any other administrative queries, etc. on the tender issued. All such clarification/ issues shall be addressed directly to the tender issuing (procurement) department For all clarifications/ issues related to the tender, Please contact:

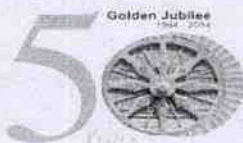
Name:	Ch Mulayam (Dy. Manager)	V M Gupta (DGM)
Deptt:	Material Management	Material Management
Address:	BHEL Jhansi	BHEL Jhansi
Phone: (Landline/ Mobile)	0510-241-2734	0510-241-2614
Email:	mulayam@bhel.in	vmgupta@bhel.in
Fax:		

We confirm above instructions have been fully understood. We further confirm that price bid has been submitted without addition of any other terms & conditions and if the price bid is found to be conditional (e.g. minimum order quantity, slab rate, discount for quantity, different terms of payment etc. etc.), BHEL has full right not to accept our offer.



Signature of Supplier:

Name :
Designation :
Seal :



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Schedule - III**SALIENT TECHNICAL REQUIREMENTS**

1. **SCOPE OF WORK** :-The scope of work covered in this enquiry is fabrication of **Power Transformer Tank with Accessories / only Allied Tank parts (Accessories)** of Transformer rating varying from 1 MVA to 315 MVA as per our drawings on fully finish basis using own material in all respects. The Tanks for Rectifier Transformer are also included in the scope. The Tanks & Accessories shall be supplied in duly shot blasted & painted condition. The supply shall be inspected by BHEL / Third party inspection agency / Customer & shall be dispatched in packed condition wherever applicable.

All material, consumables, facilities shall be arranged by the supplier. These include air pressure test, vacuum test, D.P. test, paint film thickness test and any other test called in BHEL DRG. / Mechanical test instruction. No material will be issued by BHEL like Hardwares, temporary fixtures, blanking plates, C clamps, helical inserts, gaskets etc. Pre-machining of the items / components as per drawing is in the scope of supplier.

Supplier should ensure that the supplies are as per latest, DCAs, MIDs, QA Plans and other documents. BHEL will provide main W.O. drawings only with PO / PO amendments through e-mail. The date of e-mail shall be considered for receipt of drawings at supplier end. However, it is the responsibility of suppliers to request for all related sub drawings called in these main drawings within a week of receipt of main drawings and shall be sent through mail. BHEL will not accept any extension request on account of late request and receipt of e-mails for these sub drawings.

All facilities required for fabrication and testing the Tanks and Accessories are to be arranged by the vendor themselves. However the Material Testing facilities may be extended by BHEL on chargeable basis, if available. Vendor shall have to give a notice of minimum one week for this purpose. Material Testing facilities in our Material Testing Lab at BHEL rates. It must be clearly understood that BHEL shall not be held responsible for any delay in providing the above facility and consequently for any delay in final supplies by the supplier to BHEL.

When square section header is called for, the supplier shall ensure standard square section.

In case of supplier is unable to arrange material as per BHEL specifications/ sizes mentioned in the drawings, necessary concession may be sought from BHEL which may be accepted/ not accepted.

- 2 **MATERIAL** :- Material shall be procured only from reputed mild steel manufacturers or their agents / stockist / dealers with co-related test certificates, which shall have to be furnished to BHEL. List of these suppliers is given schedule VI Para A2. In the absence of proper test certificates material shall have to be tested in BHEL approved laboratories for acceptance. The requirements of various material involved in the fabrication will be in accordance with respective BHEL & Standards. However, in general the following material specifications will be used.

Material	Specn No.	Material	Specn No.
(i) Forged Steel bar	AA 19331	(viii) H.R. Steel Sheet	AA10113
(ii) M S Plate/Round Bar	AA 10108	(ix) H.T.S. Plate	AA10122
(iii) S.S. Plate 304 GR	AA10739	(x) Bright Steel Bars	AA10112
(iv) S.S. Plate 321 GR	AA10740	(xi) Aluminum Plates	AA12317
(v) S.S. Plate 316 L GR	AA10730	(xii) Seamless Carbon Steel	AA10445
(vi) ERW Pipe 10 NB to 150 NB	AA10152	Pipe for lifting bollard	
(vii) 200 NB & above.	AA10147		



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Schedule - III

The plates of 2.8 / 3.0 meters in width are to be used. If these sizes of plates are not available in the market, 2.5 meter width plates can be used. However, Joints shall be maintained strictly as per BHEL drawing.

Wherever additional joints are proposed, it requires specific approval of TRE, BHEL.

Tanks with Accessories are the combined fabrication of Mild Steel, High Tensile Steel, Stainless Steel & Aluminum. Extra charges payable for High Tensile Steel, stainless steel and Aluminum are indicated at Para 6 of schedule - III. However, total weight of Tank with Accessories including that of High Tensile Steel, Stainless Steel & Aluminum material will be considered for payment of fabrication rate as per schedule - Schedule XI/RA.

3. SHOT BLASTING & PAINTING :-

a. All the Assy. / sub Assy. / items are to be supplied duly shot blasted & painted as required by BHEL as per the specification given below:

- | | | |
|---------------------------|---|---|
| 1. Degreasing | - | As per respective painting specification |
| 2. Shot Blasting | - | SIS 055900 SA 2.5 |
| 3. Painting | - | As per process specification specified in TR 10257P, TR 10005 P, TR15080P |
| 4. Painting process spec. | - | TR 10206P, TR 10210P, TR 10211P, TR 10209P & TR 10229P |

Paints will be procured from BHEL approved suppliers. Any fading / peeling-off of paint within / up to six months will be attended by the vendor to meet CQX requirement.

Whenever more than 01 tank of same WO ordered on a supplier, the set wise loose item's identification plate are to be painted with different color. For example, **Set-1:** Green color, **Set-2:** Yellow color, **Set-3:** Blue color and so on. The final instruction for same will be informed through Purchase Order.

4. TESTING REQUIREMENT :- Air & Vacuum testing is to be done as called in the mechanical instructions or in Respective drawing issued by BHEL. During testing Tank / Assemblies will be kept on suitable structure to facilitate the leakage test of welded joint with liquid soap solution.

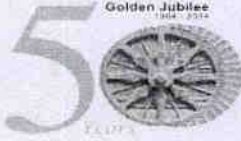
NDT is in the scope of vendor. It shall be carried out by BHEL approved personnel / Agencies. The details of agency carrying out NDT shall be intimated by supplier to BHEL CQX division / third party inspection for their approval.

The paint thickness is to be checked by the Elcometer. The supplier shall procure the reputed make Elcometer and in no case it will be provided by BHEL. The supplier shall carry out the Paint Adhesion test in presence of BHEL CQX / Customer.

5. QUALITY REQUIREMENTS:-

- 5.1 Third party / customer inspection co-ordination will be done by the supplier through CQX / MM / TRC as per existing practice. Advance notice of 7 days or more (if called in PO) is to be given by the supplier in case where third party / customer inspection is called.





Schedule - III

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510-2412416 & 2734, ई-मेल: vmgupta@bhel.in & mulayam@bhel.in

- 5.2 Inspection will be at supplier's works by BHEL CQX / CQ / Third Party / Customer as per BHEL Standard procedure and standard or specific QA Plan.
- 5.3 Steel hardwares to property class 4.8 will only be used for testing (not to be supplied to BHEL).
- 5.4 Material identification, co-relation etc. shall be done as per standard QA plan no. QP / PT / SP / 553 / rev-02 dated-01.07.10. In any case, the supplier shall have to keep complete record of material identification and test certificate co-relation as per quality system for review. Work Order related QP (If called), the same shall also be followed.
- 5.5 Tanks and other fabricated components shall be free from shots, dust, weld slag and other foreign materials. Suppliers to ensure same before dispatch.
- 5.6 Tanks & all fabricated components shall be supplied after running of third tap in all the tapped holes. This operation will be done after final painting and just before dispatch to BHEL. The tapped holes shall be thoroughly cleaned after application of third tap to remove any burr, chip, paint etc.
- 5.7 All these tapped holes shall be blanked with insulation adhesive tape. For bigger size hole e.g. 110 dia, the thick and strong polythene sheet will be put to cover them which will be sealed using insulation adhesive tapes / clamps to avoid ingress of moisture and dust during transportation. No grease shall be applied.
- 5.8 All other opening in tank, tank cover, bottom tank, top tank, turrets etc. shall be blanked to as under to prevent ingress of dust / moisture :-
 - (i) Using blanking plates & inspection cover where called in drawing (e.g. Turret opening, OLTC inspection cover etc.) 3 to 4 bolts will be used to tighten the blanking plates.
 - (ii) Thick & strong polythene sheet stuck by insulation adhesive tape are to be provided wherever blanking plates for openings are not called.
 - (iii) 3thk NBC Gasket and adequate hardware to be used to blank all pipe works along with blanking plate.
 - (iv) Items having male threading shall be protected using grease and plastic sleeves.
- 5.9 For the items as earthing boss & earthing pad, paint from all the contact surfaces shall be removed prior to dispatch of the items. The supplier must ensure compliance to this.
- 5.10 The jacking pads shall be painted wherever there is no specific instruction in the drawing / MID for their masking. Masking of jacking pads using paper masking tape of sufficient width shall be done wherever called in the drawing. Dye penetration Test is done to detect CRACKs after jacking of oil filled transformer / rectifier. However, it will be ensured that paint is totally absent from pad welding area so that there is no need to burn it after its receipt in BHEL.
- 5.11 A suitable fixture shall be used for drilling of tapped holes so that they are perpendicular to the axis. Perpendicularity will be checked by BHEL CQX on surveillance basis during mounting of turrets / Inspection cover for air leakage test.



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5.12 All suppliers shall create a barricaded area having cemented floor for painting so that dust / dirt is not settled during inter-coat drying period. All major and minor items shall be painted only in the barricaded area. It shall be ensured that paint is applied over a totally clean surface.

5.13 The check list suggested by BHEL CQX shall be adopted by fabricators. In material TC Check List, new columns for all item as per Drg. PO will be listed first and their actual availability on Tank / Accessories will be certified by the supplier, vetted on surveillance basis by CQX personnel of Fabricator and then by BHEL CQX. This procedure will eliminate the recurring problem of pads / bosses / brackets not welded on tank, welded at wrong place, at wrong pitch and of wrong size / type.

5.14 Gasket including 'O' rings / cords used for sealing shall be of the quality and dimensions called in BHEL Drawing.

5.15 Rim flatness will be checked by BHEL CQX after all welding work is done (before welding of limiter) and just before blanking / pressure test operation. If any modification is done resulting in welding, rim flatness is to be rechecked.

5.16 Grooves for 'O' rings shall be made by Milling Process.

5.17 In case of order for Tank & Accessories both, total matching of all items on 100% basis shall be done and shown to BHEL CQX. **A photograph of complete assembly shall be submitted to inspection agency while seeking dispatch clearance of the Transformer.** All items including loose items as per PO annexure shall be match marked as per the instruction given in BHEL drawings

5.18 In case of order for Tank, Turret & OAB Pipe work only, matching of these items shall be done and shown to BHEL CQX.

5.19 Some BHEL customers accept the material / assemblies from their approved suppliers only. In such cases supplier has to get himself approved from such customers (i.e. NTPC, Power Grid, NPCL, PSEB, DVC etc.) through BHEL. Irrespective of rate contract quantity, orders for tanks for such customers shall be placed only on customer approved suppliers.

5.20 All sharp points / cut edges dents etc. shall be grounded smooth. Wherever radius or rounding off is called in drawing, it should be ground as per drawing without any surface defects.

5.21 Dispatch clearance shall be given after inspection at fabricator's works. However, final acceptance will be given only after the inspection on receipt of jobs at BHEL works.

5.22 **Supplier has to submit Photograph of complete Tank along with test certificates.**

5.23 In case any rectification work is necessitated at BHEL, Jhansi owing to Supplier's fault, the Supplier shall be given a week's notice to rectify the same. In case the supplier does not respond within the due time frame, the Cost shall be recovered from the vendor towards the rectification carried out inside BHEL. The cost for recovery shall be 1.5 times the actual costing as mentioned in the FA for the relevant work done.

6 **EXTRA CHARGES :-** To cater different types of requirements viz. painting, shot blasting, vacuum test by different customers, separate rates have been fixed by BHEL and are given hereunder. Suppliers will not be allowed to make any change in any of the rates fixed by BHEL for the following items :-

10 | पृष्ठ 49

क्रय इंकवारी सं. E3599002



उपरोक्त सभी शर्तें स्वीकार्य हैं। हस्ताक्षर विड दाता

Schedule - III

भारत हेवी इलेक्ट्रिकल्स लिमिटेड

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Sl.	Additional charges	No of coats with Micron	Rate fixed by BHEL (Rs./kg)
1	Enamel Primer (Total weight of jobs)	(1 coat/25 Micron)	0.35
2	Epoxy Primer (Total weight of jobs)	(1 coat/25Micron)	0.80
3	Enamel Finish (Total weight of jobs)	(1 coat/25Micron)	0.45
4	Epoxy Finish (Total weight of jobs)	(1 coat/25Micron)	0.95
5	PU Finish (Total weight of jobs)	(1 coat/25Micron)	2.10
6	MIO Primer (Total weight of jobs)	(1 coat/80Micron)	2.95
7	Epoxy Zinc Phosphate Primer (Total weight of jobs)	(1 coat/50 Micron)	3.75
8	Enamel Aluminum Finish Paint (Total weight of jobs)	(1 coat/25Micron)	0.75
9	Epoxy Aluminum Finish Paint (Total weight of jobs)	(1 coat/30 Micron)	1.20
10	Charges for Spray Galvanizing for 100 Microns (weight to be considered is of the area in which spray galvanizing to be done)		2.99
11	Shot blasting (Total weight of jobs)		1.44
12	Pickling (Total weight of jobs pickled)		2.85
13	Vacuum Test (weight of jobs tested)		0.60
14	Hydro Test (weight of jobs tested)		1.01
15	Additional charges for Stainless steel parts as per design weight (difference in rate of SS -304 and MS material)		221.00
16	Additional charges for Stainless steel parts as per design weight (difference in rate of SS -316 and MS material)		292.00
17	Additional rate for High tensile steel part as per design weight (difference in rate of HTS and MS material)		18.00
18	Additional charges for Aluminum items as per design weight irrespective of amount of Aluminium used in the tank.		175.78
19	Additional charges due to radiography (Per tank)		₹ 30,000 Per tank
20	Additional charges for ultrasonic quality welding on butt welds (including ultrasonic testing charges) – applicable for weight of the job on which UT done)		2.13
21	Additional charges for IP 55 charges on Cable Box, irrespective of size, Rate is per cable box		7000.00

The above extra charges will be given, wherever applicable, as per design considerations

For additional charges towards SS metal parts HTS parts & Aluminium parts (Sl no 15 to 18), there shall be no deduction from equivalent MS weight

Schedule - III

भारत हेवी इलेक्ट्रिकल्स लिमिटेड

सामग्री प्रबंधन विभाग

डाकघर: भेल, झाँसी पिनकोड 284120 उत्तर प्रदेश

510-2412416 & 2734, ई-मेल-vmgupta@bhel.in & mulayam@bhel.in

- 6.1 Wherever packing of accessories is called for in the PO, payment of the wooden boxes/ crates (as mentioned in Annexure to Schedule X) will be made @ **Rs 33.00/Kg** based on weights indicated in the annexure to Schedule X. This will be treated as packing & forwarding charges. Rate of Rs 33.00/Kg shall remain the same throughout the period of rate contract.
- 6.2 Suppliers should quote one basic rate considering the fixed rates mentioned by BHEL in Clause 6.0. This basic rate shall be for fabrication of Transformer Tank with Accessories and shall cover complete work except those mentioned above. These extra charges will be added as & when applicable while placing PO(s). It is clarified that the basis for evaluation of the offers shall be the basic rate of Transformer Tank with Accessories
- 6.3 The assemblies shall be delivered on F.O.R. BHEL Jhansi basis as per Schedule XI. The offers received on Ex-works Basis will be rejected.
- 7.0 **DESPATCHABLE UNITS** :-The various assemblies and items are categorized in following dispatchable Units (DU) and shall be dispatched in the sequence given below:

DU-1 Tank & Cover :- Tanks & Cover or Top & Bottom Tank, Turrets, Cable Box, Disconnecting Chamber, Inspection Cover and Blanking Plates, OAB Pipe Works, Top cross beam.

Note :- (a) - Tank & Cover or Top & Bottom Tank and turrets shall be supplied to BHEL in shot blasted shot blasted & painted condition as the case may be.

(b) - Blanking plates and inspection covers shall be supplied shot blasted & painted condition.

DU-2 Thermo-siphon, Bevel gear mounting support, mounting brackets on tank and cover, Marshalling Box Brackets, loose brackets, Main & Auxiliary conservator, supports, A-Frame, Header Support, Cooler Supports, Fan Support, Cooler Pipe Work, Pipe Support, NRV, Oil Reserve Flow Stopping Device, Lightening Arrestors (IA) Brackets, Nitrogen Cylinder Mounting, Brackets, Ladders etc. duly shot blasted & painted within 10 days of supply of items listed in DU-1 or as specified in Purchase Order.

- 8.0 Wherever tanks are supplied duly shot blasted & painted and blanked, the blanking should be painted as per TR 10005-P, Sl. No. 8 i.e. 2 coats of Enamel Paint inside and only 2 coats of Post Office Red Finish paint outside.

- 9.0 **PACKING & DISPATCH** :-Necessary care shall be taken during loading and transportation to ensure that there is no scratches / damage to paint surface in any item and items are received at BHEL, Jhansi without any damage. Damage to the consignment resulting out of poor / inferior packing / improper transport shall be to the account of the supplier. Blanking / sealing of delicate parts as per clause 7 above shall be done. The supplier will have to do rectification, touching up of paint if so required at our works if items are received with such defects.

10.0 **WEIGHT VARIATION:**

Weight given in drawing / purchase order will be subject to variation of $\pm 7\%$ (5% variation for dimensional variation of raw material of Tank & Accessories and 2% variation for welding and painting).



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भारत हेवी इलेक्ट्रिकल्स लिमिटेड

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510-2412416 & 2734, ई-मेल-vmgupta@bhel.in & mulayam@bhel.in

Schedule - III

Signature of Supplier :

Name :

Designation :

Seal :



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Schedule - IV

भारत हेवी इलेक्ट्रिकल्स लिमिटेड

सामग्री प्रबंधन विभाग

डाकघर: भेल, झोंसी पिनकोड 284120 उत्तर प्रदेश

F: 0510-2412416 & 2734, ई-मेल: vmgupta@bhel.in & mulayam@bhel.in

COMMERCIAL TERMS & CONDITIONS

1. The rate contract shall be valid for ordering for two year from the date of issue of rate contract and supply upto 3 months thereafter.
2. The following Price Variation Claim shall be allowed over the basic rate quoted by you as per schedule XI / Reverse Auction :-
 - a) For every 1 Rupee per Kg increase / decrease in JPC (Joint Plant Committee, Constituted by Govt. of India) price excluding GST of **10 mm plate** for Delhi, the basic rate will increase / decrease by Rs 1.20 per kg.
 - b) **The basic rate quoted in ScheduleXI / Reverse Auction shall be based on the JPC steel market price (Retail) of Rs 41.95 per kg (excluding GST) for 10 mm plate derived from the price declared in beginning of May 2019 for Delhi. For detail calculation to derive JPC steel price excluding GST, refer schedule – IX.**
 - c) JPC declares steel market prices (Retail) bi-monthly including GST. JPC price declared in beginning of the month for Delhi shall be considered for one full month for the purpose of calculating PVC. BHEL will derive the JPC market price (retail) excluding ED & VAT as per calculation placed at Schedule – IX and the same shall be considered for full one month for calculating PVC.
 - d) JPC steel basic rate excluding GST of Delhi (derived from the declared price in beginning of the month by JPC for Delhi) as applicable one month prior to contractual delivery or actual delivery whichever is lower, will be taken for the purpose of calculating price variation. For example, if Tank Assy. is supplied in the month of March 2019 & PO delivery is Feb 2019, rate applicable for the month of Feb 2019 or January 2019 respectively whichever is lower shall be taken for PVC Claim.
3. Taxes & Duties shall be extra as applicable on the date of actual delivery. Bidders are advised in their own interest to familiarize themselves fully with various types of taxes and their rates etc. including entry tax if applicable. It may be noted that evaluation of quoted prices shall be done on the basis of landed cost at BHEL which shall be arrived at after loading the prices wherever required. Applicable taxes & duties on the date of offer MUST be mentioned. If any bidder is found to incorrectly declare less value of GST or nil in the offer, his contract will be terminated. For increase in GST rate slab during R/C period, required proof & undertaking will have to be given to this effect before same is admitted by BHEL.
4. The rates quoted shall be on FOR BHEL Jhansi basis on per Kg basis only. Freight & insurance from supplier's works to BHEL Jhansi works shall be in the scope of the bidder.
5. The validity of the quotation shall be for a period of 120 days from the date of Part-1 bid opening. In case Reverse Auction is conducted, the price quoted shall be kept valid for 120 days from Reverse Auction. Prices once finalized shall remain firm within the validity or any extension thereof for FA, till complete execution of the FA, without any escalation/increase for any reason, whatsoever.



Schedule - IV

भारत हेवी इलेक्ट्रिकल्स लिमिटेड

सामग्री प्रबंधन विभाग

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I: 0510-2412416 & 2734, ई-मेल-vmgupta@bhel.in & mulayam@bhel.in

6. Rates shall be quoted duly considering the CENVAT credit available on the input material and the Corresponding benefit on this account shall be passed on to BHEL.
7. **Payment Terms :** 100 % payment within 90 days (45 days for MSE / NSIC registered suppliers per relevant act in force) from the date of receipt of material and submission of clear and admissible bill, subject to acceptance of material at BHEL , on direct presentation of the documents.

In case of despatch of material to site directly, site certification for receipt of materials is required unless otherwise provided for in the PO. Any deviation from the above payment terms, if accepted (by BHEL), shall be loaded @ SBI base rate (as on date of Part I bid opening) + 6%, for the purpose of bid evaluation.

All documents as called for in the PO have to be submitted by the Supplier at the time of receipt of material and this should include the Invoice of the Supplier - Original copy of the Buyer and Duplicate for Transporter. On receipt of Invoice, the same shall be acknowledged by BHEL. Any clarifications on the bill submitted by the supplier shall be sought generally within 30 days (15 days for MSE / NSIC registered suppliers as per relevant act in force) of receipt of bill at BHEL. While it would be in the interest of the Supplier to provide the reply immediately to the clarifications sought, the Supplier is to respond at least within 7 days from the date of clarifications sought by BHEL. Wherever clarifications are sought by BHEL, the date of receipt of clarifications from the supplier shall be considered as date of submission of clear and admissible bill. The offer received with any other terms of payment will not be accepted.

Where ever the jobs are not to be supplied in packed condition, the payment shall be made on the supplied weight. In addition Extra charges as mentioned in clause 6.0 of Schedule III can be billed if permitted in the PO.

If called for in the order, certain Accessories will have to be supplied in packed condition (refer Schedule X). In such cases, payment of accessories will be done on per kg basis of net weight. (Total supplied weight including packing- weight of wooden boxes/crates as indicated in annexure to schedule X). In addition to Extra charges as mentioned in clause 6.0 of Schedule III, the payment towards packing & forwarding i.e. wooden boxes/ crates (as mentioned in Annexure to Schedule X) will be made @ **Rs.33.00/Kg** based on weights indicated in the annexure to Schedule X.

Vendor has to indicate the weight of Wooden boxes/ crates in respective invoice and challan, to arrive at actual weight received for Tank and Accessories. In case there is any variation in the claimed weight of wooden boxes/ crates and the weight of wooden boxes/ crates mentioned in the Purchase Order, the higher of the two shall be considered for payment.



Schedule - IV

भारत हेवी इलेक्ट्रिकल्स लिमिटेड

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8. **Manner of Splitting:** Contract may be established with 'P-1' suppliers (where P is techno-commercially accepted vendors) but limited to 15 suppliers for execution of this contract and quantity distribution among L1, L2..... to & L15 would be in the ratio (%) as shown in the below table based on L1 agreed rate.

Rank*	Weightage	% Share
1(vendor with lowest rate in R.A.)	n	$n/Z \times 100$
2	n-1	$(n-1)/Z \times 100$
3	n-2	$(n-2)/Z \times 100$
..	..	..
..	..	..
n (Vendor who has accepted counter offer & has bid highest rate in RA among 1 to n)	1	$1/Z \times 100$

$$\text{Total } Z = n(n+1)/2$$

- 'n' may vary from 1 to 15. L1 and those vendors who accept counter offer have to accept distribution of quantity as above.
- If we do not get 15 sources then qty may be distributed between agreed sources in line with above manner of splitting.

* Rank of suppliers including L1 and those who have accepted counter offer (from lowest rate to highest rate in Reverse Auction).

Note: The quantity distribution under rate contract shall be generally as per quantities allocated to the bidder, but limited to the capacity quoted by the bidder. The proportion and manner of splitting as stated above shall remain the same during execution of contract, as long as the vendor(s) continue to perform and meet the contractual capacity committed in the tender. However, the distribution also depends on the customer approval at vendors for specific projects.

Wherever it comes to notice that the vendor is not performing on delivery or quality, or is not meeting the contractual capacity committed in the tender, or not executing the order or is not responsive on post order completion issues, suitable penal action shall be taken against the defaulting vendor(s) as per the Guidelines of the Company. In such cases, the balance allocated full or part quantity of the defaulting vendors may be re-distributed to other performing and willing vendors of the rate contract.

In view of above factors the loading during execution of rate contract may vary with respect to allocated quantity.



9.0 DELIVERY :-

9.1 DELIVERY PERIOD

Individual LOIs / POs of the Rate Contract shall be released (along with the BHEL drawings & Quality Plan) with a delivery period of 10 weeks from the date of issue of LOI / PO.

Wherever it is mentioned in the LOI / PO that the delivery indicated is tentative and that the progress of the jobs are linked to release of documentations by BHEL and inspection of jobs by BHEL / Customer clearance, the delivery period shall be as under :

SI	Detail	Delivery terms
1	Intimation of Final WO drawings / Annexure, by way of PO Amendment	4 weeks from the date of intimation of PO Amendment or 10 weeks from the date of issue of LOI / PO, whichever is later.
2	Pursuant to communication of Intimation of final WO drawings & Annexure, if minor changes in drawings / specification are communicated by way of PO Amendment.	1 week from the date intimation of PO Amendment or 10 weeks from the date of issue of LOI / PO, whichever is later.

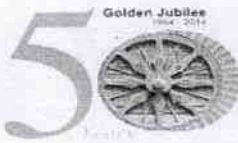
Notwithstanding the above delivery period, BHEL reserves the right in postponing delivery / seeking an earlier delivery from the supplier owing to the overriding concern of our production requirements.

Wherever most of the drawings are given much before P.O delivery date and any drawings change happen after P.O delivery date, only the due period for completion of work as per revised drawings shall be added on P.O delivery date. When it is observed that the supplier is at fault for not completing the job with P.O delivery date delivery extension owing to drawing change later may not be entertained.

9.2 SUPPLIER RESPONSIBILITY: BHEL will provide main W.O. drawings only with PO / PO amendments. It is the responsibility of suppliers to request for all related Sub drawings called in these main drawings within a week of receipt of main drawings and collect the same from BHEL. BHEL will not accept any extension request on account of late request & delay in collecting these sub drgs



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Schedule - IV

भारत हेवी इलेक्ट्रिकल्स लिमिटेड

सामग्री प्रबंधन विभाग

डाकघर: भेल, झाँसी पिनकोड 284120 उत्तर प्रदेश

टेलीफोन: 0510-2412416 & 2734, ई-मेल: vmgupta@bhel.in & malavany@bhel.in

9.3 PENALTY FOR DELAYED DELIVERY / DELIVERY EXTENSION :

- (a) Delivery dates shall not be extended except for reason not attributable to supplier. Suppliers should strictly adhere to delivery schedule provided in the PO and plan the materials and works immediately on viewing the PO on the supplier information portal of BHEL Jhansi website. Delayed supplies would attract penalty as per Clause 9 of schedule -V
- (b) Beyond the delivery period mentioned at 9.1 above, there could be reasons wherein the supplier may seek a delivery extension. However, BHEL Jhansi may consider the request for delivery extension if there are sufficient reasons to believe that delay is not attributable to supplier. Such requests for extension should be substantially supported by letters / emails of communication, dates of receiving information, clarifications, inspection call booking and actual inspection dates etc. In case of inspection delays, the number of days of delay in inspection shall be added on the delivery date scheduled in PO, provided the advance intimation of 7 days' notice has been given for inspection as mentioned at 5.1 of Schedule III. In case the notice period is less than 7 days, the delivery period shall be calculated accordingly. Supplier should resort to recorded communication if they feel that desired inputs have not been given to them by BHEL Jhansi. Suppliers should not delay in seeking inputs from BHEL Jhansi; unreasonable delay in requesting for inputs would be to suppliers account and would not qualify for delivery extension.

9.4 HOLD

- (a) In case HOLD is issued by BHEL Jhansi and subsequently lifted after a gap of more than one month, the period of HOLD and a certain mobilization period (7 days) shall be added to the PO delivery date, and if necessitated, a reasonable time shall be considered for communicating the revised delivery from the date of lift of HOLD.
- (b) If the hold is lifted within 30 days, the period of HOLD and a certain mobilization period (5 days) shall be added to the PO delivery date.

9.5 SHORT CLOSURE/ CANCELLATION OF PO/ RATE CONTRACT:

In case of production requirement of BHEL or due to inability of vendor to execute the PO/Rate contract, BHEL reserves the right to short close / cancel the individual PO/ Rate contract.

Signature of Supplier :
Name :
Designation :
Seal :



Schedule - VGENERAL TERMS & CONDITIONS

1. Purchase Order Acknowledgement must reach the concerned Officer of MM Deptt., BHEL, Jhansi within 2 weeks of issue of PO. Failure to do so within stipulated period will be deemed to mean that the order has been accepted by the supplier.
2. **Marking :-**
 - (a) The following details will have to be clearly marked on each loose item :-
 - i) BHEL Order No. and Date
 - ii) Supplier's name
 - iii) Brief Description of Item / drg. no.
 - iv) Match Marking on all accessories as per drawing.
 - (b) All Markings for safety, proper handling, protection, etc. are to be clearly marked on the case as per Indian Standard.
3. **CONSIGNEE:** - Unless otherwise mentioned, all goods shall be consigned as noted below:
Incharge (CRX)
Factory Main Stores,
Bharat Heavy Electricals Ltd.,
JHANSI - 284129
4. **DOCUMENTATION:** The supplier shall forward 3 sets of the documents as detailed below :-
 - (a) **First set to the concerned Purchase Executive, BHEL, Jhansi comprising :-**
 - (i) GST Compliance Invoice –Extra Copy/Photocopy - 1 Copy
 - (ii) Challan/Dispatch Advice Note - 1 Copy
 - (iii) Test Certificate, Guarantee/Warrantee Certificate - 1 Copy
 - (iv) Test Certificate - 1 Copy
 - (v) Copy of LR/RR - 1 Copy
 - (vi) Material accounting statement (for free issue material). If no material is issued by BHEL, then the statement should indicate "NIL".
 - (b) **Second set to Incharge, Central Receiving Section, BHEL, Jhansi comprising:-**
 - i. GST Compliance Invoice –Duplicate for Transporters - 1 Copy
 - ii. Challan/Dispatch Advice Note - 3 Copies
 - iii. Packing List as per schedule 10 of table 1 - 2 Copies
 - iv. Test Certificate, Guarantee/Warrantee Certificate - 3 Copies
 - v. LR/RR Duplicate for transporter copy
 - (c) **Third set to Manager (Finance), Supply Bills Section, BHEL, Jhansi comprising:-**
 - (i) GST Compliance Invoice –Original for Buyer - 1 Copy+1 Original
 - (ii) Challan / Dispatch Advice Note - 1 Copy
 - (ii) PVC calculation if any with supporting documents. - 1 copy



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Schedule - V

भारत हेवी इलेक्ट्रिकल्स लिमिटेड

सामग्री प्रबंधन विभाग

डाकघर: भेल, झाँसी पिनकोड 284120 उत्तर प्रदेश

टेलीफोन: 0510-2412416 & 2734, ई-मेल: vmgupta@bhel.in & mulayam@bhel.in

5. **GUARANTEE** :- All goods shall be free from any defects due to faulty material and workmanship and it will be guaranteed for a period of 18 months from the date of commissioning of the goods at customer's site or 24 months from the date of dispatch whichever is earlier. However, for any "LATENT DEFECTS" supplier will be responsible even after 24 months, if failure occurs due to the same.

6. **REJECTIONS** :-

I. If any goods are rejected, BHEL shall be at liberty to take action as per following at the risk and cost of supplier :-

- (a) Allow the supplier, wherever mutually agreed, to rectify the rejected goods at BHEL's works within reasonable time as fixed by BHEL.
- (b) Allow the supplier to make free replacement within a specified period; rejected goods can be lifted by the supplier thereafter.

OR

Allow the supplier to refund the full amount paid to him by BHEL by a Demand Draft before lifting the rejected goods. Fresh replacement shall be regularized as per terms & conditions of the original purchase order.

OR

Take alternative procurement action from elsewhere and recover the difference in cost, if any incurred by BHEL in this regard from the supplier. The supplier shall not be entitled to any gain on purchase

- (c) Terminate the contract either in part or in whole at the discretion of BHEL and recover the loss, if any, from the supplier.

II. If manufacturing defect is noticed in Tank at the time of use in BHEL, same shall be intimated to the vendor by email and :

- (a) Vendor shall depute their team for rectification within 02 days of intimation (excluding date of intimation).
- (b) BHEL shall at its discretion and on advise of its quality department deduct Rs. 1000 per day for the period taken by vander's team for rectification at BHEL (this period shall exclude 02 days as mentioned at (b) above). This deduction is solely for the delay incurred in progress of work in BHEL on account of defect / rectification of Tank (defect attributed to vendor). If the Supplier does not attend to the rectification work even after seven days of intimation, BHEL shall reserve the right for suitable deductions
- (c) The vendor's team will obtain a written clearance from quality department w.r.t. satisfactory Completion of rectification work.

7. **INDEMNITY** :- Supplier shall indemnify BHEL against the following: Any claim or infringement of letters, patent or registered design by the use of any article or material supplied to BHEL and





Schedule - V

भारत हेवी इलेक्ट्रिकल्स लिमिटेड

सामग्री प्रबंधन विभाग

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against all cost and damages which may incur, any action for such infringement or for which BHEL become liable in any such action.

(a) All claims for injury or damage caused by the supplier's negligence or the negligence of supplier's employees or arising from any defect in the goods supplied or on the work carried out by the supplier.

(b) All claims for injury to the supplier's employees or agents employees whilst on BHEL's premises.

8. **SUB-CONTRACT** :- The purchase order or any part thereof must not be sub-contracted by supplier without BHEL's written consent.

9. **RISK PURCHASE** :- If the material is not supplied within stipulated time, BHEL shall be within their right free to cancel the contract and purchase the material through any other source at the risk and cost of the supplier. In such an event it shall be obligatory on the defaulting supplier to make good loss suffered by BHEL. Wherever Risk purchase is invoked attracting action as per guidelines of the Company, action shall be initiated to suspend business dealings with the Supplier. This option shall be executed at the discretion of BHEL.

10. **PENALTY** :- Failure to effect supply by the time specified in the order or period of extension granted in writing by BHEL, will make the supplier liable to pay unconditional penalty of ½ % (half percent) of the price of un delivered goods in arrears per week subject to maximum of 10% (ten percent) of the order value of delayed supply. In case the contractually agreed delivery date falls on a holiday in BHEL Jhansi, the next working day shall be taken as contractual delivery date for compliance and applicability of LD / penalty.

11. **ADJUSTMENT OF RECOVERY OF AMOUNT PAYABLE BY THE SUPPLIER** :- Any amount payable by the consignor / supplier under any of the conditions of this contract shall be liable to be adjusted against any amount payable to the consignor / supplier under any other order / works contract awarded to him. This is without prejudice to any other action as may be deemed fit by BHEL.

12. Wherever purchase order stipulates payments on the basis of weight of the supplies, the order will specify the design weight. In case of change in design during execution of the order, the corresponding change in weight will be incorporated in the purchase order simultaneously. Payment will be made against such orders, only on the basis of actual weight incorporated in the order.

13. The Bidder along with its associate/ collaborators/ sub-contractors/ sub-vendors/ consultants/ service providers shall strictly adhere to BHEL Fraud Prevention Policy displayed on BHEL website <http://www.bhel.com> and shall immediately bring to the notice of BHEL Management about any fraud or suspected fraud as soon as it comes to their notice.

14. In the course of evaluation, if more than one bidder happen to occupy L-1 status and the order is to be placed on a single vendor, effective L-1 will be decided in the order of availability of goods, suitability of delivery period to BHEL's requirements, vendor performance rating, quantum of past business volumes with the vendor or by soliciting discounts. In case more than one bidder happen to occupy the L1 status even after all the above mentioned iterations, the L1



Schedule - V

भारत हेवी इलेक्ट्रिकल्स लिमिटेड

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डाकघर: भेल, झाँसी पिनकोड 284120 उत्तर प्रदेश

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bidder shall be decided by a toss in the presence of the respective L1 bidder(s). BHEL's decision in such situations shall be final and binding.

15. Offers of the Bidders who are under HOLD or are under Interim Suspension or are on the banned list and / or those bidders who engage services of such suspended / banned firms, shall be rejected. The list of firms banned by BHEL is available on BHEL web site www.bhel.com. The list of firms suspended by BHEL, Jhansi is available on www.bheljhs.co.in
16. **JURISDICTION** :-All suits or any matters arising out of the PO's based on the rate contract shall lie in Jhansi Courts only.
17. **ARBITRATION** :-In all cases of disputes, the matter shall be referred for arbitration. The arbitrator shall be nominated by the Unit Head, Bharat Heavy Electricals Ltd. Jhansi or any other officer nominated by him. The award of Arbitrator shall be final and binding on both the parties.
18. **FORCE MAJEURE**: Neither seller nor purchaser hereto shall be held responsible for any delay or failure to perform any or all of the obligations imposed upon such party caused by Force Majeure. In such a case, the time for performance of such obligations and the obligations of the other party to the extent that they are directly or indirectly affected by such occurrence will be extended by a period equal to that time. Notification of a circumstance of Force Majeure shall be given in writing addressed to the other party within 5 working days of its occurrence along with a certificate of the relevant Chamber of Commerce confirming the existence of the circumstances of the Force Majeure. Only the following shall be considered as Force Majeure if they intervene before contractual delivery date and impede performance: Acts of God, Wars, Revolutions, Fire, Floods, Epidemics, Freight embargoes and Acts of State. However, should such a delay, even if due to reasons of Force Majeure, be protracted for more than three (3) months, Purchaser shall have right to cancel the Contract at no charge to Purchaser.

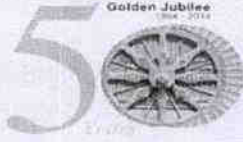
Signature of Supplier :

Name :

Designation :

Seal :





Schedule - VI

भारत हेवी इलेक्ट्रिकल्स लिमिटेड

सामग्री प्रबंधन विभाग

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टेलीफोन: 0510-2412416 & 2734, ई-मेल: vmgupta@bhel.in & mulayam@bhel.in

TECHNO COMMERCIAL BID (PART-A) : E3599002

(Supplier should fill up this bid by putting the tick in accepted / non accepted column)

SUPPLIER'S NAME & ADDRESS :-

SL No	Particulars	Please furnish required information or Put ✓ mark for whichever is applicable.
1	a- Capacity reserved for BHEL Jhansi in MT per month (Minimum 40 MT monthly capacity to be reserved by supplier for this tender) b- Loading will be done as stated in clause no -8 of schedule-IV. Supplier has to ensure their monthly committed capacity & satisfactory performance during execution of contract so that the firm loading as stipulated in the tender is awarded to the vendor. Else, performance conditions as stipulated in clause no -8 of schedule-IV apply	a-MT Per month b- Accepted / Not accepted
2	Capacity reserved for BHEL Jhansi in MT per annum (Minimum 480 MT annum capacity to be reserved by supplier for this tender)	MT Per annum
3	Present rate of GST @	 %
4	(i) SGST (ii) CGST (iii) IGST (Fill whichever is applicable)	(i) % (ii) (iii) %
5	Quoted rate will be FOR Jhansi Basis.	Accepted / Not accepted
6	Freight and Insurance will be in suppliers scope.	Accepted / Not accepted
A	Material :	
A1	The material to following specifications will be procured and used in manufacture of Power Transformer Tank with Accessories / only Allied Tank parts (Accessories) wherever applicable to the Latest specification	Accepted / Not accepted
A1.a	M. S. Plate Material/M S Round Bar AA 10108	Accepted / Not accepted
A1.b	S.S. Plate Material GR 304 AA10739	Accepted / Not accepted
A1.c	S.S. Plate Material GR 321 AA10740	Accepted / Not accepted
A1.d	S.S. Plate Material GR 316L AA10730	Accepted / Not accepted
A1.e	ERW PIPES (10 NB to 150 NB) AA10152	Accepted / Not accepted
A1.f	ERW Pipe (200 NB & above) AA 10147	Accepted / Not accepted
A1.g	Seamless Carbon Steel AA10445 Pipe for lifting bollard	Accepted / Not accepted
A1.h	HR. Steel Sheet AA 10113	Accepted / Not accepted
A1.i	H. T. S. Plate AA 10122	Accepted / Not accepted
A1.j	Bright Steel Bar AA 10112	Accepted / Not accepted
A1.k	Forged Steel Bar AA19331	Accepted / Not accepted
A1.l	Aluminum Plate AA12317	Accepted / Not accepted
A2	Source of Material & Testing Requirement: Tested material to be procured from reputed manufacturers like SAIL / SAIL subsidiaries / TISCO / Mahindra UGINE/ Essar Steel / Jindal Steel / Lloyds Steel / Jindal Vijaynagar and co related material test certificates to be furnished. If co-related test	Accepted / Not accepted

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क्रय इन्वेंट्री सं. E3599002



उपरोक्त सभी शर्तें स्वीकार्य हैं: हस्ताक्षर बिड दाता

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Schedule - VI

भारत हेवी इलेक्ट्रिकल्स लिमिटेड

सामग्री प्रबंधन विभाग

डाकघर: भेल, झाँसी पिनकोड 284120 उत्तर प्रदेश

टेलीफोन: 0510-2412416 & 2734, ई-मेल: vmgupta@bhel.in & mulayam@bhel.in

	certificates cannot be produced, complete testing of material is to be carried out as per relevant BHEL standard in any of the BHEL approved labs.	
A3	The plates of 2.5 / 2.8 / 3.0 meters in width are to be used	Accepted / Not accepted
A3.1	A3.1 - If these sizes of plates are not available in the market, lower width of the plate shall be used only after obtaining concession from TRE which will indicate position of joint.	Accepted / Not accepted
A3.2	Generally, 5 mm or 6 mm thick plates are available in 1.5 meter width. If component width is more than 1.5 meter, additional joint is acceptable	Accepted / Not accepted
A4	Rate for different type of paintings, SS, NDT, shot blasting and Vacuum tests etc, as per clause 6.1 of schedule-IV.	Accepted / Not accepted
B	Scope of Work :-	
B1	Fabrication of Power Transformer Tank with Accessories / only Allied Tank parts (Accessories) shall be carried out as per the latest / MID'S / DCA'S to be obtained from BHEL during the course of manufacturing as per Para 1 of schedule III of the tender documents.	Accepted / Not accepted
B2	This tender is issued for (i) Fabrication of complete Power Trfr. Tank with Accessories and (ii) Fabrication of only Allied Tank Parts (Accessories) PO may be placed for (i) or (ii) above at discretion of BHEL and shall have to be executed by bidder.	Accepted / Not accepted
B3	The Power Transformer Tank with Accessories will be subject to vacuum testing / air pressure testing D.P. test as called in the drg. / MID'S.	Accepted / Not accepted
B4	Degreasing of Tanks & Accessories as per BHEL spec. where specified in painting process spec. (shot blasting) whose specified in party propose spec.	Accepted / Not accepted
B5	Cleaning by shot blasting / pickling as per BHEL Spec.	Accepted / Not accepted
B6	Primer & finish painting will be done as called in the Drg. / PO.	Accepted / Not accepted
B7	Matching of top & bottom tanks along with tank fitted items like Turrets, OAB pipes work etc. or tank & cover before dispatch.	Accepted / Not accepted
B8	Matching of tank & all accessories including pipe works A frame, conservator, cable box (100% items) fitted.	Accepted / Not accepted
B9	Bending & pre machining wherever required will be done by the supplier and no facility will be extended by BHEL. However if facility is not available, the same may be provided by BHEL on chargeable basis	Accepted / Not accepted
B10	Grooves for 'O' rings shall be made by milling process.	Accepted / Not accepted
B11	WPS, PQR & WQR shall be followed as per quality plan no. QP / PT / SP 553 rev-02 dated-01.07.10	Accepted / Not accepted



Schedule - VI

भारत हेवी इलेक्ट्रिकल्स लिमिटेड

सामग्री प्रबंधन विभाग

डाकघर: भेल,झाँसी पिनकोड 284120 उत्तर प्रदेश

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C	Workmanship	
C1	The Power Transformer Tank with Accessories shall be manufactured maintaining the fabrication tolerances called in the drgs.	Accepted / Not accepted
C2	Painting & related quality checks shall be done as per process specification called in the drawings/ MID's	Accepted / Not accepted
C3	Suppliers to ensure to maintain weld sizes using weld checking gauges. Any lumps, scars or under cuts etc. are round smooth for neat appearance	Accepted / Not accepted
C4	To ensure desired aesthetic all sharp points cut edges, dents etc. shall be grounded smooth. Wherever radius or rounded off is called in drg., it should be ground as per drg. without any surface defect.	Accepted / Not accepted
D	Inspection Instruments	
D1	Standard QAP is QP/PT/ SP 553 rev-02 dated-01.07.10 shall be followed. If Work Order related QA Plan applicable, the same shall also be followed.	Accepted / Not accepted
D2	Stage wise inspection shall be carried out as Specified in QA Plan / as per job requirement	Accepted / Not accepted
D3	Dimensional record shall be maintained in the Performa prescribed by BHEL.	Accepted / Not accepted
D4	Inspection by BHEL CQX / Third party as per job Requirement / QA plan. All Co-ordination with Inspection agencies to be done by supplier.	Accepted / Not accepted
D5	Complete Tank's photograph shall be Supplied along with test certificates	Accepted / Not accepted
E	Cleaning & Painting :-	
E1	Cleaning, Degreasing, Shot Blasting & Painting to be done as per specification and Thickness of paint in microns shall be maintained as called in the spec. / Drgs MID.	Accepted / Not accepted
E2	Supplier to ensure that job should be free from shots, weld slag, dust and other foreign material before dispatch.	Accepted / Not accepted
E3	First coat of primer / paint shall be applied within 4 hours of surface preparation.	Accepted / Not accepted
F	Shipping Instructions :-	
F1	Tanks & Allied parts (Accessories) are to be dispatched as per sequence indicated in DU System at clause No.7 of schedule - IV (DU1 to DU 2).	Accepted / Not accepted
F2	All dispatchable units shall be properly identified with paint and deep punch	Accepted / Not accepted
G	General	
G1	In general, no material will be issued from BHEL	Accepted / Not accepted
G2	NDT wherever required is in suppliers scope of Work and should be carried out by BHEL'S Approved agencies. Quotation not confirming to this requirement is liable for rejection	Accepted / Not accepted
G3	Facilities such as bending, testing, machining Will not be provided by BHEL.	Accepted / Not accepted
G4	No Tools / Jigs / Fixtures / Gauges will be issued by BHEL	Accepted / Not accepted
G5	Only calibrated instruments and gauges will be used.	Accepted / Not accepted
G6	All inside / outside threads are to be duly protected with suitable means before shot blasting / paint applications.	Accepted / Not accepted
G7	Areas which are not to be painted e.g. jacking pads etc. are to be properly masked / protected from paint.	Accepted / Not accepted
G8	Conservator End Cover are to be sealed with gasket to ensure no water seepage.	Accepted / Not accepted
G9	Colour fading, if any, observed during course of time to be attended by the supplier.	Accepted / Not accepted
G10	Supplier has to collect and MID's from TRE / TRP /MM on intimation by BHEL and take necessary material procurement / manufacturing action as required	Accepted / Not accepted



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Schedule - VI

भारत हेवी इलेक्ट्रिकल्स लिमिटेड

सामग्री प्रबंधन विभाग

डाकघर: भेल, झाँसी पिनकोड 284120 उत्तर प्रदेश

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G11	Supplier has to obtain approval from BHEL like customer NTPC / NHPC / NPC / PSEB etc. for tank and accessories through BHEL Jhansi. necessary information will have to be submitted in time.	Accepted / Not accepted
G12	Clause no. 6 (i) & (ii) of schedule – VI.	Accepted / Not accepted
G13	Vendor must have spare capacity to supply 40 MT Per month for this contract	Accepted / Not accepted
G14	If vendor does not fulfill the criteria at G13, the offer shall be bypassed	Accepted / Not accepted
H	COMMERCIAL PART.	
H1	Validity of the rate contract shall be two year for ordering & 3 months thereafter for supply. This R/C E3599002 shall be effective from date of issue of rate contract to L1 bidder.	Accepted / Not accepted
H2	Price variation clause shall be as per clause 2 of schedule - V.	Accepted / Not accepted
H3	Taxes and duties shall be extra as applicable on the date of actual delivery.	Accepted / Not accepted
H4	Penalty clause as well as other conditions given in general Terms & conditions, (schedule - VI) and Standard Enquiry terms & conditions are acceptable to us.	Accepted / Not accepted
H5	Rates quoted in the price bid are on F.O.R. Jhansi basis	Accepted / Not accepted
H6	Validity of the rates quoted is 120 days from the date of opening of price bid / date of RA.	Accepted / Not accepted
H7	The delivery shall be 10 weeks for Power Trfr. Tank with Accessories / only Allied tank parts (Accessories) after issue of LOI / PO. Other conditions as per clause 10.1 of schedule – V.	Accepted / Not accepted
H8	100 % payment within 90 days (45 days for MSE / NSIC registered suppliers as per relevant act in force) from the date of receipt of material and submission of clear and admissible bill, subject to acceptance of material at BHEL, on direct presentation of the documents and other terms & condition given in this tender are acceptable to us as per clause 07 of schedule –IV.	Accepted / Not accepted
H9	Quoted rates are based on the rates frozen by BHEL for various activities which have been detailed at 6.1 of schedule - IV.	Accepted / Not accepted
H10	L1 bidder will be decided on the basis of {basic rate + GST + Any other taxes (if any) - CENVAT benefit - Input Tax Credit}. Rates fixed by BHEL for different variables at clause no 6.1 of schedule - IV will not be considered for arriving at L1 bidder.	Accepted / Not accepted
I	OTHER TECHNICAL REQUIREMENTS: - MEASURES FOR AVOIDANCE OF LEAKAGES AND WELD CRACKING IN TRANSFORMER TANKS .	Accepted / Not accepted
I.1.1	To ensure use of approved WPS, WQR, PQR and welders for fabrication of Tank.	Accepted / Not accepted
I.1.2	To ensure availability of WPS & PQR for MS to MS, MS to SS & SS to SS before start of work.	Accepted / Not accepted
I.2.1	Use of baking oven & portable thermos for electrodes.	Accepted / Not accepted
I.2.2	One qualified person is to be nominated by vendor who will be responsible for all QC function. No inspection calls shall be attended without clearance of your internal QC person on checklist / observation sheets.	Accepted / Not accepted
I.3.1	Welding of gussets in tank rim area to be done only after complete welding of rim to provide proper accessibility to welding	Accepted / Not accepted
I.3.2	Grooves of all rectangular flanges are to be machined by Milling M/c and grooves are to be checked for dimension before Welding & in no case deviation shall be allowed. This will avoid any complication in final stage	Accepted / Not accepted
I.4.1	Additional welding up to a length of 100 mm to be done on all corners of tank	Accepted / Not accepted
I.4.2	All pads and flanges are to be duly machined & dressed before Welding on tanks	Accepted / Not accepted



Schedule - VI

भारत हेवी इलेक्ट्रिकल्स लिमिटेड

सामग्री प्रबंधन विभाग

डाकघर: भेल,झाँसी पिनकोड 284120 उत्तर प्रदेश

टेलीफोन: 0510-2412416 & 2734, ई-मेल: vmgupta@bhel.in & mulayam@bhel.in

I.5	Suitable relieving / angle / pipes to be provided on all pressure joints for Leakage checking	Accepted / Not accepted
I.6	Testing bosses to be provided on box stiffeners whenever the leakage joint gets concealed.	Accepted / Not accepted
I.7	Utmost care to be taken in making of grooves in inspection pads, and ensuring rim flatness to prevent seepage through cords and gaskets	Accepted / Not accepted
I.8	Flame cut edges to be properly dressed before fit-up / welding.	Accepted / Not accepted
I.9	CO2 welding if employed to be avoided in pressure joint area. Further welders to be qualified for Co2 welding process.	Accepted / Not accepted
I.10.1	If CO2 welding employed care should be taken to keep the weldment away from strong draughts. The job should be adequately screened to avoid disruption of gas.	Accepted / Not accepted
I.10.2	As far as possible for uniformity of welding appearance it is suggested to use one variety of welding process either of CO2 or conventional.	Accepted / Not accepted
I.11.1	Vertical welding and overhead welding should not be done by CO2 welding and avoided as far as possible in stick welding	Accepted / Not accepted
I.11.2	As far as possible welding is to be done in down hand position only	Accepted / Not accepted
I.12.1	Pressure testing to be done with actual size of gasket and cords as given in drgs.	Accepted / Not accepted
I.12.2	Pressure & Vacuum testing is to be done with turrets and all inspection covers duly blanked & turrets are to be tightened with full Qty studs only.	Accepted / Not accepted
I.13.1	Only calibrated pressure gauges (entire range) of 0 to 2.1 kg / sq. cm. to be used.	Accepted / Not accepted
I.13.2	Welding gauge is to be made available with your QC person to ensure proper weld size.	Accepted / Not accepted
I.14	Repetition of type test PT / VT should be avoided in all circumstances. Proper scaling and leakages should be ensured before and without subjecting the tank to the reqd. test pressure of PT / VT	Accepted / Not accepted
I.15	PT / VT shall be observed by us only once. Permission shall be taken from BHEL giving reason for repetition.	Accepted / Not accepted
I.16.1	There should be no dressing marks on tank, which gives a shabby look. Temporary lifting hooks being welded on tank for lifting purpose should be avoided.	Accepted / Not accepted
I.16.2	There should not be any sharp corner on complete tank assy. and a general radius of 0.5 mm to 1 mm is to be maintained on edges.	Accepted / Not accepted
I.17	All DP and NDT are to be certified by qualified level II inspectors only.	Accepted / Not accepted
I.18	All concession / deviations are to be regularized through our concession / deviation format	Accepted / Not accepted
I.19.1	Painting records are to be maintained and filled in BHEL Jhansi log sheet.	Accepted / Not accepted
I.19.2	Primer is to be applied within 6 hours of Shot blasting after removal of loose and dirt. Adhesion and thickness is to be done after each coat of primer / paint application	Accepted / Not accepted



Schedule - VI

भारत हेवी इलेक्ट्रिकल्स लिमिटेड

सामग्री प्रबंधन विभाग

डाकघर: भेल, झाँसी पिनकोड 284120 उत्तर प्रदेश

फोन: 0310-2412416 & 2734, ई-मेल: vmgupta@bhel.in & mulayam@bhel.in

I.20	Paint peel off test shall be carried out by Adhesion testing by fixing tapes on the applied surface.	Accepted / Not accepted
I.21	Deburring of all plain holes and re-tapping of all threaded holes is to be ensured before shipment.	Accepted / Not accepted
I.22	Fabrication works cannot be offloaded without prior approval of BHEL. The above suggested measure are to be used as guiding tools in an effort to reduce the occurrences of leakages and weld cracking in future	Accepted / Not accepted
J	Rate may be finalized through reverse auction.	Accepted / Not accepted
J1	Please confirm that in case BHEL decides to go for Reverse Auction you will participate in Reverse Auction	Yes : Confirmed
J2	In case of Reverse Auction, Please confirm that you will participate in reverse auction. (Non acceptance to this clause may liable to rejection your offer). <i>Bidders to submit online sealed bid less than or equal to sealed price bid filled in the envelope seal bid while submitting the offer already submitted to BHEL</i>	Yes : Confirmed
K	Submission of required documents as per Sl.No.4 (a), (b) & (C) of Schedule V	Accepted / Not accepted
L	The bidder is informed that the General Terms & Conditions of Enquiry which are uploaded at https://jhs.bhel.com/apps/sip/enq/terms/enq_tems_121118.pdf are to be read by the bidder before submitting quote in the Enquiry. BHEL shall construe the participation by the bidder in the enquiry as acceptance to the General Terms & Conditions of Enquiry. As on date the General Terms and Conditions uploaded is JHS 2055A R-02.	Accepted / Not accepted

Note: - If any of the above conditions are not accepted the offer shall be liable for rejection.

M. Contact detail of vendor:-

M1. Contact Person :

M 2. Mobile no. :

M 3. Telephone No/ FAX :

M 4. E mail Id :



Schedule - VII

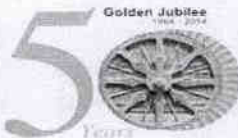
**Business Rule of Reverse Auction for the procurement of Power Transformer tanks for
on Finish basis as per the agreed Technical Specification against the Tender No.**

E3599002 DTD XXXXXX

Buyer Name	Name of BHEL Unit : BHEL Jhansi - Full postal address: PO BHEL Jhansi (UP) 284120 - Fax: 0510-2412120 - Phone: 0510-2412614 - Contact person name: V M Gupta, DGM/MM - Phone: 0510-2412459 - Email: mgupta@bhel.in and - Contact person name: Ch. Mulayam, Dy. Manager/MM - Phone: 0510-2412734 - Email: mulayam@bhel.in
Auction to be conducted by	Name of Service Provider: XXXXXXX
Date of Auction	Date of Auction :
Documents Attached: (To be sent to the bidders)	1) Business rules for Reverse Auction (Annexure-I) 2) Process Compliance Form (Annexure-III) 3) Details of item(s) to be Reverse Auctioned (Annexure-V) 4) Post RA Price confirmation by bidder (Annexure-VI)
SPECIAL INSTRUCTIONS	1) <u>Bidders to submit online sealed bid less than or equal to their envelope sealed bid already submitted to BHEL.</u> 2) <u>Bidding in the last minutes and seconds should be avoided in the bidders own interest. Neither the Reverse Auction Service Provider nor BHEL will be responsible for any lapses / failure on the part of the vendor, in such cases.</u>



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Schedule - VII

भारत हेवी इलेक्ट्रिकल्स लिमिटेड

सामग्री प्रबंधन विभाग

डाकघर: भेल, झाँसी पिनकोड 284120 उत्तर प्रदेश

टेलीफोन: 0510-2412416 & 2734, ई-मेल: vmgupta@bhel.in & mulayam@bhel.in

Annexure - I

Business Rules for Reverse Auction

This has reference to tender no **E3599002 dated XXXXXX**. BHEL may finalise the Rates for the supply of Power Transformer tanks on finish basis through Reverse Auction mode. BHEL has made arrangement with M/s. {Service provider}, who shall be BHEL's authorized M/s. {Service provider}, for the same. Bidders should go through the instructions given below and submit acceptance of the same.

The technical & commercial terms are as per (a) BHEL Tender Enq. No. E3599002 dated XXXX, (b) Bidders' technical & commercial bid (in case of two part bid) and (c) subsequent correspondences between BHEL and the bidders, if any.

1. Procedure of Reverse Auctioning

- I. **Online Sealed Bid:** This duration of online sealed bid will be 30 minutes. All bidders to submit their online sealed bids during this period.
- II. **Online Reverse Auction:** The 'opening price' i.e. start price for RA and 'bid decrement' will be decided by BHEL.
- III. If BHEL decides the lowest online sealed bid as the starting price, then the lowest bidder in online sealed bid shall be shown as current L1 automatically by the system and no acceptance of that price is required. System shall have the provision to indicate this bid as current L1.
- IV. Bidders by offering a minimum bid decrement or the multiples thereof can displace a standing lowest bid and become "L1" and this continues as an iterative process.
- V. After the completion of the online reverse auction, the Closing Price (CP) shall be available for further processing.

2. Schedule for Reverse Auction: The Reverse Auction is tentatively scheduled on ----- (shall be intimated later) and the duration of online sealed bid will be 30 minutes. All bidders to submit their online sealed bids during this period.

- Online Sealed Bid:-

- Start Time: 14.00 Hrs
- Close Time: 14.30 Hrs

- Online Reverse Auction:-

- Start Time: 15.00 Hrs
- Close Time: 16.00 Hrs

3. Auction extension time: If a bidder places a bid in the last 05 minutes of closing of the Reverse Auction and if that bid gets accepted, then the auction's duration shall get extended automatically for another 05 minutes, for the entire auction (i.e. for all the items in the auction), from the time that bid comes in. Please note that the auto-extension will take place only if a bid comes in those last 05 minutes and if that bid gets accepted as the lowest bid. If the bid does not get accepted as the lowest bid, the auto-extension will not take place even if that bid might have come in the last 05 minutes. In case, there is no bid in the last 05 minutes of closing of Reverse Auction, the auction shall get closed automatically without any extension. However, bidders are advised not to wait till the last minute or last few seconds to enter their bid during the auto-extension period to avoid complications related with internet connectivity, network problems, system crash down, power failure, etc.





Schedule - VII

भारत हेवी इलेक्ट्रिकल्स लिमिटेड

सामग्री प्रबंधन विभाग

डाकघर: भेल, झाँसी पिनकोड 284120 उत्तर प्रदेश

टेलीफोन: 0510-2412416 & 2734, ई-मेल: vmgupta@bhel.in & mulayam@bhel.in

The above process will continue till completion of Reverse Auction.

Complaints/ Grievances, if any, regarding denial of service or any related issue should be given in writing thru e-mail/ fax to M/s. {Service provider} with a copy to BHEL within **15 minutes** prior to initial closing time of Online Reverse Auction.

4. **Bid price:** The Bidder has to quote the FOR Jhansi Landed Price (Net of CENVAT/ VAT) inclusive of Packing & Forwarding charges, all the routine & type tests as per tender scope, ED + cess, CST against C-form, Freight (bidder to provide original Freight paid receipt), insurance charges, etc. including loading (if indicated by BHEL due to deviations in technical/ commercial terms) for the Items specified. Details are as shown in Excel Sheet for calculation of total cost to BHEL (To be specified by Unit as per NIT conditions).
5. **Bidding currency and unit of measurement:** Bidding will be conducted in *Indian Rupees per Unit* of the material as per the specifications mentioned in E3599002
In case of foreign currency bids, exchange rate (TT selling rate of State Bank of India) as on scheduled date of tender opening (Part-I bid) shall be considered for conversion in Indian Rupees. If the relevant day happens to be a Bank holiday, then the forex rate as on the previous bank (SBI) working day shall be taken.
6. **Validity of bids:** Price shall be valid for **120 days** from the date of reverse auction. These shall not be subjected to any change whatsoever.
7. **Lowest bid of a bidder:** In case the bidder submits more than one bid, the lowest bid at the end of Online Reverse Auction will be considered as the bidder's final offer to execute the work.
8. Bidders shall be assigned a **Unique User Name & Password** by M/s. {Service provider}. Bidders are advised to change the Password and edit the information in the Registration Page after the receipt of initial Password from M/s. {Service provider} to ensure confidentiality. All bids made from the Login ID given to the bidders will be deemed to have been made by the bidders/ bidders' company.
9. **Post auction procedure:** BHEL will proceed with the Lowest Bid in the Reverse Auction for further processing.
10. Any commercial/ technical loading shall be intimated to bidders prior to RA. The excel sheet provided in this regard shall cover all these aspects. Commercial/ technical loading if any, shall be added by the respective bidder in its price during online sealed bid & Online Reverse Auction. Modalities of loading & de-loading shall be separately intimated to the bidders. The responsibility for correctness of total cost to BHEL shall lie with the bidders.
11. Computerized reverse auction shall be conducted by BHEL (through M/s. {Service provider}), on pre-specified date, while the bidders shall be quoting from their own offices/ place of their choice. Internet connectivity shall have to be ensured by bidders themselves.

During the RA process if a bidder is not able to bid and requests for extension of time by FAX/ email/ phone then time extension of additional **15 minutes** will be given by the BOB eProcure Solutions Pvt. Ltd provided such requests come before **5 minutes** of auction closing time. However, only one such request per bidder can be entertained.



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Schedule - VII

भारत हेवी इलेक्ट्रिकल्स लिमिटेड

सामग्री प्रबंधन विभाग

डाकघर: भेल, झाँसी पिनकोड 284120 उत्तर प्रदेश

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Despite this extension if bidder fails to upload his prices due to extreme case of failure of Internet connectivity, (due to any reason whatsoever may be) it is the bidders' responsibility/ decision to send fax communication immediately to M/s. {Service provider}, furnishing the price the bidder wants to bid online with a request to the Service Provider to upload the faxed price online so that the Service Provider will upload that price online on behalf of the Bidder. It shall be noted clearly that the concerned bidder communicating this price Service Provider has to solely ensure that the fax message is received by the Service Provider in a readable/ legible form and also the Bidder should simultaneously check up with Service Provider about the clear receipt of the price faxed. It shall also be clearly understood that the bidder shall be at liberty to send such fax communications of prices to be uploaded by the Service Provider only within the closure of Bid time and under no circumstance it shall be allowed beyond the closure of Bid time /reverse auction. It shall also be noted that the Service Provider should be given a reasonable required time by the bidders, to upload such prices online and if such required time is not available at the disposal of the Service Provider at the time of receipt of the fax message from the bidders, Service Provider will not be uploading the prices and either BHEL or the Service Provider are not responsible for this unforeseen circumstances. In order to ward-off such contingent situation bidders are requested to make all the necessary arrangements/ alternatives whatever required so that they are able to circumvent such situation and still be able to participate in the reverse auction successfully. Failure of power or loss of connectivity at the premises of bidders during the Reverse auction cannot be the cause for not participating in the reverse auction. On account of this, the time for the auction cannot be extended and neither BHEL nor M/s. {Service provider} is responsible for such eventualities.

12. Proxy bids: Proxy bidding feature is a pro-bidder feature to safeguard the bidder's interest of any internet failure or to avoid last minute rush. The proxy feature allows bidders to place an automated bid in the system directly in an auction and bid without having to enter a new amount each time a competing bidder submits a new offer. The bid amount that a bidder enters is the minimum that the bidder is willing to offer. Here the software bids on behalf of the bidder. This obviates the need for the bidder participating in the bidding process until the proxy bid amount is decrementally reached by other bidders. When proxy bid amount is reached, the bidder (who has submitted the proxy bid) has an option to start participating in the bidding process.

The proxy amount is the minimum amount that the bidder is willing to offer. During the course of bidding, the bidder cannot delete or change the amount of a proxy bid.

Bids are submitted in decrements (decreasing bid amounts). The application automates proxy bidding by processing proxy bids automatically, according to the decrement that the auction originator originally established when creating the auction, submitting offers to the next bid decrement each time a competing bidder bids, regardless of the fact whether the competing bids are submitted as proxy or standard bids. However, it may please be noted that if a manual bid and proxy bid are submitted at the same instant manual bid will be recognized as the L1 at that instant.

In case of more than one proxy bid, the system shall bid till it crosses the threshold value of 'each lowest proxy bid' and thereafter allow the competition to decide the final L1 price.

Proxy bids are fed into the system directly by the respective bidders. As such this information is privy only to the respective bidder(s).

13. Bidders are advised to get fully trained and clear all their doubts such as refreshing of screen, quantity being auctioned, tender value being auctioned etc from M/s. {Service provider}.

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क्रय इन्वारी सं. E3599002



उपरोक्त सभी शर्तें स्वीकार्य हैं: हस्ताक्षर बिड दाता



Schedule - VII

भारत हेवी इलेक्ट्रिकल्स लिमिटेड

सामग्री प्रबंधन विभाग

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14. M/s. {Service provider}, shall arrange to demonstrate/ train the bidder or bidder's nominated person(s), without any cost to bidders. M/s. {Service provider}, shall also explain the bidders, all the business rules related to the Reverse Auction. Bidders are required to submit their acceptance to the terms/ conditions /modalities before participating in the Reverse Auction in the process compliance form as enclosed. Without this, the bidder will not be eligible to participate in the event.
15. Successful bidder shall be required to submit the final prices (L1) in prescribed format (Annexure-VI) for price breakup including that of line items, if required, quoted during the Online Reverse Auction, duly signed and stamped as token of acceptance without any new condition (other than those already agreed to before start of auction), after the completion of auction to M/s. {Service provider} besides BHEL within two working days of Auction without fail.
16. Any variation between the final bid value and that in the confirmatory signed price breakup document will be considered as tampering the tender process and will invite action by BHEL as per extant guidelines for suspension of business dealings (as available on www.bhel.com).
17. Bidders' bid will be taken as an offer to execute the work/ supplies of the item as per enquiry no. E3599002 dt. XXXXXXXXX. Bids once made by the bidder, cannot be cancelled/ withdrawn and bidder shall be bound to execute the work as mentioned above at bidder's final bid price. Should bidder back out and not execute the contract as per the rates quoted, BHEL shall take action as per extant guidelines for suspension of business dealings (as available on www.bhel.com).
18. Bidders shall be able to view the following on their screen along with the necessary fields during Online Reverse Auction:
 - a. Leading (Running Lowest) Bid in the Auction (only total price of package).
 - b. Bid Placed by the bidder.
 - c. Start Price.
 - d. Decrement value.
 - e. Rank of their own bid during bidding as well as at the close of auction.
19. BHEL's decision on award of contract shall be final and binding on all the Bidders.
20. BHEL reserves the right to extend, reschedule or cancel the Reverse Auction process at any time, before ordering, without assigning any reason, with intimation to bidders.
21. BHEL shall not have any liability to bidders for any interruption or delay in access to the site irrespective of the cause. In such cases, the decision of BHEL shall be binding on the bidders.
22. Other terms and conditions shall be as per bidder's techno-commercial offers and other correspondences, if any, till date.
23. If there is any clash between this business document and the FAQ available, if any, in the website of M/s. {Service provider}, the terms & conditions given in this business document will supercede the information contained in the FAQs. Any changes made by BHEL/ {Service provider}, (due to unforeseen contingencies) after the first posting shall be deemed to have been accepted if the bidder continues to access the portal after that time.



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भारत हेवी इलेक्ट्रिकल्स लिमिटेड

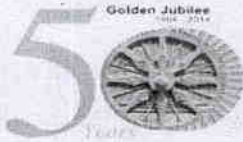
सामग्री प्रबंधन विभाग

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24. Bidder shall not divulge either his Bids or any other exclusive details of BHEL to any other party. If the Bidder or any of his representatives are found to be involved in Price manipulation/ cartel formation of any kind, directly or indirectly by communicating with other bidders, action as per extant BHEL guidelines for suspension of business dealings (as available on www.bhel.com), shall be initiated by BHEL.





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सामग्री प्रबंधन विभाग

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Annexure - III

Process Compliance Form

(The bidders are required to print this on their company's letterhead and sign, stamp before RA)

To

- M/s. {Service Provider}

Sub: Agreement to the Process related Terms and Conditions

Dear Sir,

This has reference to the Terms & Conditions for the Reverse Auction mentioned in the RFQ document for {Items} against BHEL enquiry/ RFQ no.E3599002 dtd. XXXXXXX

This letter is to confirm that:

- 1) The undersigned is authorized official/ representative of the company to participate in RA and to sign the related documents.
- 2) We have studied the Reverse Auction guidelines (as available on www.bhel.com), and the Business rules governing the Reverse Auction as mentioned in your letter and confirm our agreement to them.
- 3) We also confirm that we have taken the training on the auction tool and have understood the functionality of the same thoroughly.
- 4) We also confirm that, in case we become L1 bidder, we will FAX/ email/ the price confirmation & break up of our quoted price (including that of line items) as per Annexure-VI within two working days (of BHEL) after completion of RA event, besides sending the same by registered post/ courier both to M/s. BHEL and M/s. {Service provider}.
- 5) We also confirm that in case we become L1 bidder, the envelope sealed price bid submitted by us shall be opened by BHEL and we agree to accept the lower of the two bids (RA closing price & envelope sealed price) for placement of order and we have understood that in case online sealed bid placed by us is found higher than envelope sealed price bid submitted by us, then BHEL may take action as stipulated in NIT.

We, hereby confirm that we will honour the Bids placed by us during the auction process.

With regards

Signature with company seal.....

Name -.....

Company / Organization.....

Designation within Company / Organization.....

Address of Company / Organization.....

- Sign this document and FAX/ email it to M/s. {Service provider} prior to start of the Event.





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भारत हेवी इलेक्ट्रिकल्स लिमिटेड

सामग्री प्रबंधन विभाग

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Annexure – V

Details of item (s) for Reverse Auction

Procurement of Power Transformer tanks on Finish basis against Tender Enquiry No. E3599002 dated XXXXXXXX

Item no	Description of items	Qty in set
1	BOTTOM TANK ASSY TO DRG NO 04631750011/02, EBOM VER-02 TOP TANK ASSY TO DRG NO 04631650017/07, EBOM VER-09 TANK COVER ASSY TO DRG NO 14631850005/03, EBOM VER-04 RADIATOR P/W ASSY TO DRG NO 04634350017/01, EBOM VER-02 HEADER P/W ASSY TO DRGNO 14634350015/01, EBOM VER-01 AUX CONS P/W ASSY TO DRG NO 14635250016/02, EBOM VER-02 MAIN CONS P/W ASSY TO DRG NO 04635150014/03, EBOM VER-03 OUT SIDE FITTING TO DRG NO 04631950014/01, EBOM VER-02 LV& HVN TURRET ASSY TO DRG NO 14632150025/01, EBOM VER-01 HV TURRET ASSYT TO DRG NO 14632150027/01, EBOM VER-02 ALL ITEM AS PER ANNEXURE'A' SL NO A/01 TO A/109. DRAWINGS AND ANNEXURE MENTIONED IN ITEM DESCRIPTION IS FOR REFERENCE ONLY. ACTUAL DRAWINGS & ANNEXURE WILL CHANGE FROM PO TO PO.	300Sets/6600,000.00 Kgs. (± 30 %)

The offers of all the bidders are technically & commercially frozen as submitted by the bidders and clarified in subsequent correspondence, if any, with the bidders.





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Annexure - VI

RA price confirmation and breakup

(To be submitted by L1 bidder after completion of RA)

To

- M/s. {Service Provider}

Sub: Final price quoted during Reverse Auction and price breakup

Dear Sir,

We confirm that we have quoted:

Rs. _____/Kg_ in value & in words Rs. _____ per Kgs_ for item(s) covered under tender enquiry No. E3599002 dt. XXXXXX

Total price of the items covered under above cited enquiries is inclusive of {Packing & forwarding, E.D. , C.S.T. , freight and insurance charges up to BHEL Jhansi , Jhansi District, UP State and Type Test Charges etc., (exclusive of service tax), other as per NIT} as our final landed prices as quoted during the Reverse Auction conducted today {.....} which will be valid for a period of 120 day (in words One Hundred Twenty days).

The price break-up including that of line items is as given below.

=====

Total - Rs. in value & in words.....

=====

Thanking you and looking forward to the valuable order from BHEL.

Yours sincerely,

For _____

Name:

Company:

Date:

CC : Dy. General Manager (MM)
BHEL, Jhansi



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भारत हेवी इलेक्ट्रिकल्स लिमिटेड

सामग्री प्रबंधन विभाग

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BHEL AA:MM:IP:R01 dtd 1.4.2010

INTEGRITY PACT

Between

Bharat Heavy Electricals Ltd. (BHEL), a company registered under the Companies Act 1956 and having its registered office at "BHEL House", Siri Fort, New Delhi - 110049 (India) hereinafter referred to as The Principal", which expression unless repugnant to the context or meaning hereof shall include its successors or assigns of the ONE PART

And

(description of the party along with address)

hereinafter referred to as The Bidder/ Contractor" which expression unless repugnant to the context or meaning hereof shall include its successors or assigns of the OTHER PART'

Preamble

The Principal intends to award, under laid-down organizational procedures, contract/s for fabrication of **Power Transformer Tank with Accessories / only Allied Tank parts (Accessories) on finish basis.** The Principal values full compliance with all relevant laws of the land, rules and regulations, and the principles of economic use of resources, and of fairness and transparency in its relations with its Bidder(s)/ Contractor(s).

In order to achieve these goals, the Principal will appoint independent External Monitor(s), who will monitor the tender process and the execution of the contract for compliance with the principles mentioned above.

Section 1- Commitments of the Principal

1.1 The Principal commits itself to take all measures necessary to prevent corruption and to observe the following principles :-

- 1.1.1 No employee of the Principal, personally or through family members, will in connection with the tender for, or the execution of a contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.
- 1.1.2 The Principal will, during the tender process treat all Bidder(s) with equity and reason. The Principal will in particular, before and during the tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential / additional information





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भारत हेवी इलेक्ट्रिकल्स लिमिटेड

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through which the Bidder(s) could obtain an advantage in relation to the tender process or the contract execution.

1.1.3 The Principal will exclude from the process all known prejudiced persons.

1.2 If the Principal obtains information on the conduct of any of its employees which is a penal offence under the Indian Penal Code 1860 and Prevention of Corruption Act 1988 or any other statutory penal enactment, or if there be a substantive suspicion in this regard, the Principal will inform its Vigilance Office and in addition can initiate disciplinary actions.

Section 2 - Commitments of the Bidder(s)/ Contractor(s)

- 2.1 The Bidder(s)/ Contractor(s) commit himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the tender process and during the contract execution.
 - 2.1.1 The Bidder(s)/ Contractor(s) will not, directly or through any other person or firm, offer, promise or give to the Principal or to any of the Principal's employees involved in the tender process or the execution of the contract or to any third person any material, immaterial or any other benefit which he / she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the tender process or during the execution of the contract.
 - 2.1.2 The Bidder(s)/ Contractor(s) will not enter with other Bidder(s) into any illegal or undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.
 - 2.1.3 The Bidder(s)/ Contractor(s) will not commit any penal offence under the relevant IPC / PC Act; further the Bidder(s)/ Contractor(s) will not use improperly, for purposes of competition or personal gain, or pass on to others, any information or document provided by the Principal as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
 - 2.1.4 The Bidder(s)/ Contractor(s) will, when presenting his bid, disclose any and all payments he has made, and is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract.
- 2.2 The Bidder(s)/ Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.

Section 3 - Disqualification from tender process and exclusion from future contracts

If the Bidder(s)/ Contractor(s), before award or during execution has committed a transgression through a violation of Section 2 above, or acts in any other manner such as to put his reliability or credibility in question, the Principal is entitled to disqualify the Bidder(s)/ Contractor(s) from the tender process or take action as per the separate "Guidelines on Banning of Business dealings with Suppliers/ Contractors". framed by the Principal.



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Section 4 - Compensation for Damages

- 4.1 If the Principal has disqualified the Bidder from the tender process prior to the award according to Section 3, the Principal is entitled to demand and recover the damages equivalent Earnest Money Deposit/Bid Security.
- 4.2 If the Principal has terminated the contract according to Section 3, or if the Principal is entitled to terminate the contract according to section 3, the Principal shall be entitled to demand and recover from the Contractor liquidated damages equivalent to 5% of the contract value or the amount equivalent to Security Deposit/Performance Bank Guarantee, whichever is higher.

Section 5 - Previous Transgression

- 5.1 The Bidder declares that no previous transgressions occurred in the last 3 years with any other company in any country conforming to the anti-corruption approach or with any other Public Sector Enterprise in India that could justify his exclusion from the tender process.
- 5.2 If the Bidder makes incorrect statement on this subject, he can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason.

Section 6 - Equal treatment of all Bidders / Contractors / Sub - contractors

- 6.1 The Bidder(s)/ Contractor(s) undertake(s) to obtain from all subcontractors a commitment consistent with this Integrity Pact and report Compliance to the Principal. This commitment shall be taken only from those sub-contractors whose contract value is more than 20 % of Bidder's/ Contractor's contract value with the Principal. The Bidder(s)/ Contractor(s) shall continue to remain responsible for any default by his Sub-contractor(s).
- 6.2 The Principal will enter into agreements with identical conditions as this one with all Bidders and Contractors.
- 6.3 The Principal will disqualify from the tender process all bidders who do not sign this pact or violate its provisions.

Section 7 - Criminal Charges against violating Bidders/ Contractors / Subcontractors

If the Principal obtains knowledge of conduct of a Bidder, Contractor or Subcontractor, or of an employee or a representative or an associate of a Bidder, Contractor or Subcontractor which constitutes corruption, or if the Principal has substantive suspicion in this regard, the Principal will inform the Vigilance Office.

Section 8 -Independent External Monitor(s)

- 8.1 The Principal appoints competent and credible Independent External Monitor for this Pact. The task of the Monitor is to review independently and objectively, whether and to what extent the parties comply with the obligations under this agreement.
- 8.2 The Monitor is not subject to instructions by the representatives of the parties and performs his functions neutrally and independently. He reports to the CMD, BHEL.
- 8.3 The Bidder(s)/ Contractor(s) accepts that the Monitor has the right to access without restriction to all contract documentation of the Principal including that provided by the Bidder(s)/ Contractor(s). The Bidder(s)/ Contractor(s) will grant the monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his contract documentation. The same is applicable to Sub-contractor(s). The Monitor is under contractual obligation to treat the information and documents of the Bidder(s)/ Contractor(s) / Sub-contractor(s) with confidentiality,





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- 8.4 The Principal will provide to the Monitor sufficient information about all meetings among the parties related to the contract provided such meetings could have an impact on the contractual relations between the Principal and the Contractor. The parties offer to the Monitor the option to participate in such meetings.
- 8.5 As soon as the Monitor notices, or believes to notice, a violation of this agreement, he will so inform the Management of the Principal and request the Management to discontinue or take corrective action, or heal the situation, or to take other relevant action. The Monitor can in this regard submit non-binding recommendations. Beyond this, the Monitor has no right to demand from the parties that they act in a specific manner, refrain from action or tolerate action.
- 8.6 The Monitor will submit a written report to the CMD, BHEL within 8 to 10 weeks from the date of reference or intimation to him by the Principal and, should the occasion arise, submit proposals for correcting problematic situations.
- 8.7 The CMD, BHEL shall decide the compensation to be paid to the Monitor and its terms and conditions.
- 8.8 If the Monitor has reported to the CMD, BHEL, a substantiated suspicion of an offence under relevant IPC / PC Act and the CMD, BHEL has not, within reasonable time, taken visible action to proceed against such offence or reported it to the Vigilance Office, the Monitor may also transmit this information directly to the Central Vigilance Commissioner, Government of India.
- 8.9 The number of Independent External Monitor(s) shall be decided by the CMD, BHEL.
- 8.10 The word 'Monitor' would include both singular and plural.

Section 9 - Pact Duration

- 9.1 This Pact begins and shall be binding on and from the submission of bid(s) by bidder(s). It expires for the Contractor 12 months after the last payment under the respective contract and for all other Bidders 6 months after the contract has been awarded.
- 9.2 If any claim is made / lodged during this time, the same shall be binding and continue to be valid despite the lapse of this pact as specified as above, unless it is discharged/ determined by the CMD, BHEL.

Section 10 - Other Provisions

- 10.1 This agreement is subject to Indian Laws and jurisdiction shall be registered office of the Principal, i.e. New Delhi.
- 10.2 Changes and supplements as well as termination notices need to be made in writing. Side agreements have not been made.
- 10.3 If the Contractor is a partnership or a consortium, this agreement must be signed by all partners or consortium members.
- 10.4 Should one or several provisions of this agreement turn out to be invalid, the remainder of this agreement remains valid. In this case, the parties will strive to come to an agreement to their original intentions.
- 10.5 Only those bidders / contractors who have entered into this agreement with the Principal would be competent to participate in the bidding. In other words, entering into this agreement would be a preliminary qualification.



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भारत हेवी इलेक्ट्रिकल्स लिमिटेड

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Schedule - VIII

11.0 The detail of IEM for BHEL Jhansi is as under :-

Name	Shri Pravin Tripathi, IAS (Retd.)
------	-----------------------------------

Note: Pending nomination of new IEM for the specific tender, prospective suppliers / bidders may address their complaints / representation as envisaged in the IP to the Head (MM) of BHEL Jhansi.

Ch. Singh
30-5-19

(Ch Mulayam)
Dy. Manager / MM

(चौधरी मुलायम)
CHOUHDARY MULAYAM
उप प्रबन्धक (सामग्री प्रबंधन)
Dy. Manager (MM)
भारत हेवी इलेक्ट्रिकल्स लिमिटेड, झाँसी
JHANSI

For and on behalf of
Bharat Heavy Electricals Ltd. Jhansi

For & On behalf of the Principal
(Signature with Office Seal)

For & On behalf of the Bidder / Contractor
(Signature with Office Seal)

Place : _____ Place : _____
Date : _____ Date : _____
Witness 1 : _____ Witness 2 : _____
(Name & Address) : _____ (Name & Address) : _____



**CALCULATION TO DERIVE
JPC MARKET PRICE (RETAIL) EXCLUDING GST OF 10 MM PLATE FOR DELHI**

CALCULATION TO DERIVE JPC MARKET RATE (RETAIL) EXCLUDING GST OF 10MM, STEEL PLATE FOR DELHI FOR THE MONTH OF May-19				
JPC STEEL RATE DETAILS (Retail)				
PLATE SIZE	MONTH	RATE (Rs / Kg.) (Inclusive of all taxes)	GST	RATE (Rs / Kg.) (Excluding GST)
A		B	C	
10 MM	May-19	49.50	18%	41.95

- (a)- JPC Market price (Retail) declared in beginning of May-2019 for Delhi including GST = Rs 49.50 per kg (Rate of JPC enclosed)
- (b)- Present rate of GST = @ 18.00 %
- (c)- Therefore JPC Market price (Retail) Excluding GST = $\frac{\text{JPC price for Delhi including GST}}{(1.18)}$
- = $\frac{49.50}{(1.18)}$
- = Rs 41.95 per kg





Schedule -IX

भारत हेवी इलेक्ट्रिकल्स लिमिटेड

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ज्वाइन्ट प्लान्ट कमिटी
(भारत सरकार द्वारा गठित)
JOINT PLANT COMMITTEE
(Constituted by Govt. of India)
An ISO 9001 : 2015 Certified Organisation

DATE : 06TH MAY 2019

JPC MARKET PRICE RETAIL AS ON 02-MAY-2019

Sl. No.	ITEM	Kolkata	Delhi	Mumbai	Chennai
1	PIG IRON	36213	39535	42480	33325
2	BILLETS 100 MM	38133	41300	42008	44191
3	BLOOMS 150X150 MM	38000	40710	40828	42859
4	PENCIL INGOTS	35717	40356	40769	37170
5	WIRE RODS 6 MM	46658	49560	48043	NA
6	WIRE RODS 8 MM	46637	49560	48043	50556
7	ROUNDS 12 MM	44803	46584	48212	49712
8	ROUNDS 16 MM	44498	46972	47834	49712
9	ROUNDS 25 MM	44608	46684	47834	49712
10	TMT 10 MM	47934	49997	47318	49442
11	TMT 12 MM	47521	48734	47023	49265
12	TMT 25 MM	47521	49147	46950	48911
13	ANGLES 50X50X6 MM	49813	51174	54595	54025
14	ANGLES 75X75X6 MM	48546	49277	51350	49379
15	JOISTS 125X70 MM	44013	48380	52610	50563
16	JOISTS 200X100 MM	47440	49457	53395	51989
17	CHANNELS 75X40 MM	47346	50821	55495	54025
18	CHANNELS 150X75 MM	48263	48764	51891	50395
19	PLATES 6 MM	50275	49501	51920	51625
20	PLATES 10 MM	50113	49501	51920	51625
21	PLATES 12 MM	49853	50150	52805	53336
22	PLATES 25 MM	50313	50386	51625	56262
23	H. R. COILS 2.00 MM	52760	51293	51953	54487
24	H. R. COILS 2.50 MM	51950	50371	51805	52722
25	H. R. COILS 3.15 MM	51000	49929	50920	52722
26	C. R. COILS 0.63 MM	56330	57033	58180	69620
27	C. R. COILS 1.00 MM	55330	54575	57263	69620
28	G. P. SHEETS 0.40 MM	64833	67573	62835	72570
29	G. P. SHEETS 0.63 MM	64367	63944	60918	72570
30	G. C. SHEETS 0.40 MM	65160	68145	62245	72570
31	G. C. SHEETS 0.63 MM	65000	64384	60623	73100
32	MELTING SCRAP H M S - I	32700	30798	30090	31034
33	MELTING SCRAP H M S - II	31000	29972	30680	29500
34	SPONGE IRON (COAL BASED)	22000	26550	22883	24190

NOTE: 1) JPC will not be responsible for the outcome of any work done by any party/user of this report based on the data featured in this report. 2) Prices are indicative. 3) Prices are inclusive of GST.
4) All prices are in Rs./Tonne and has been compiled on the basis of average of Main & Others producers' price.
5) All prices are as on day 2nd of this month.
6) For Blooms 150X150MM, prices of secondary producers was not considered.

'ISPAT NIKETAN', 52/1A, Ballygunge Circular Road, Kolkata - 700 019

इस्पत निकेतन, 52/1A, बालीगंज सर्कुलर रोड, कोलकाता - 700 019

Phone : 91 (033) 2461-4055/4058/4068 Fax : 2461-4063 E-mail : jpc-wb@nic.in Website : www.jpcindiansteel.nic.in



Schedule -X

PACKING INSTRUCTIONS FOR TANK / TANK ACCESSORIES

1. Openings of all accessories including conservators, headers, cable boxes, thermosyphons, pipework etc. are to be blanked using steel blanking plate, 3thk NBC gasket and 50 % hardware properly tightened to prevent ingress of dust/moisture.
2. All identification markings should be done by paints and Tag on Flange (Temporary markers are not accepted)
3. Following accessories are to be supplied in packed wooden boxes:

BOX NO	ITEM DETAILS	Annexure item nos
101	Assembly Items - TG Mounting items, Inside mounting items, Tap changer support, Line lead Fixtures, CT Mounting bracket, HVNTG Bracket, Stress shield (If called) , etc.	
	Testing Items - Bushing Mtg. Flanges, Steel Rings for CT Terminal board, dome cover for CT Board, Impact recorder brackek, etc	
201	Conservator Pipework , MD unit & BG brackets, Bushing mounting flanges & OAB pipes	
301	Header/Cooler Pipe work (L < 3.5 metres)	
401	Aux Conservator & Pipe work Assembly	
501	Outside Fitting Items, Bracket for moisture removal system with all pipes, Radiator fixing bar, shims, clips, support assy, post insulator brackets, breather brackets, marshalling box supports, all other misc. fabricated items, etc.	
601	Ladder assembly	
701	Pedestal Type Floor mounted Fan Supports & Arms (if not welded)	

All miscellaneous fabrication items in Conservator Pipe Work, Header Pipe Work and Aux Conservator Pipe Work, should be placed inside a small (1 ft. x 1 ft. x 1ft.) completely packed wooden case, and this wooden case shall be placed inside the respective wooden crate. This will enable that all loose items of the relevant box are securely packed till such time they reach the destination i.e site.

The construction of the boxes top cover should be bolted type construction so that the same can be opened and closed without causing any damage to the box. Each Item of Box above to be individually wrapped using suitable cushioning material (BUBBLE POLYTHENE) and tightened with adequate polyethylene adhesive tape to prevent scratches and ingress of dust/water. Then all items of respective box to be wrapped (together) in polyethylene sheet and



adequately taped while placing in wooden box. BHEL Inspection agency / Third Party inspector shall certify the completeness of the above boxes, as per Annexure enclosed to PO, before closing them and despatched to BHEL. Packing list (giving description and annexure item reference) duly certified by BHEL / Third Party inspector for completeness shall be kept should be kept securely in water proof envelope in the box and shall also be stuck on the box. Small items should be put in polythene bag and kept safely inside respective box. The respective Box No, PO No & Delivery Challan no shall be painted on the box.

4. Following items/accessories are **not to be supplied in wooden boxes** :

SL NO	ITEM DETAILS
(i)	Bottom Tank/Tank with all inspection covers. However all openings are to be blanked using steel blanking plates / inspection covers and 3 thk. NBC gasket / proper size nitrile rubber O rings (wherever applicable). Adequate hardware to be used properly tightened to prevent ingress of dust/moisture.
(ii)	Top tank/Tank Cover with all inspection Covers. However all openings are to be blanked using steel blanking plates/ inspection covers and 3 thk. NBC gasket / proper size nitrile rubber O rings (wherever applicable). Adequate hardware to be used properly tightened to prevent ingress of dust/moisture.
(iii)	All Turrets with steel blanking plates / inspection covers and 3 tk NBC gasket / proper size nitrile rubber O rings (wherever applicable). Adequate hardware to be used properly tightened to prevent ingress of dust/moisture.
(iv)	Main Conservator with all fittings
(v)	A Frame assembly
(vi)	Top/Bottom Headers with all fittings
(vii)	Thermosyphon Assembly
(viii)	Cable Box Assembly
(ix)	Header/Cooler Pipe work (L > 3.5 metres)
(x)	Fan Supports & Arms (if welded)

Items from 4 (iii) to 4 (x) above to be wrapped in Polyethylene air bubble film and tightened with adequate polyethylene adhesive tape to prevent ingress of dust/water.

5. Guidelines for making packing boxes/crates are as follows:

- Pine wood material to specification AA51401 shall be used for all crates.
- Timber used shall be free from crack, rotten and infected wood.
- For crate construction and other details refer sample drg. BP 7842078190.

- (iv) For general packing instructions ref. BP 04930399.
- (v) Thickness and width of all planks and battens used in base, sides and top shall be maintained strictly as per above drg.
- (vi) Number of planks shall be decided depending upon the box size.
- (vii) Arrangement of planks in base, sides and top shall be maintained as per above drg.
- (viii) Gap of 200 to 250 mm between planks shall be maintained in sides and top cover.
- (ix) Planks (40mm) at base shall be placed side by side without gap.
- (x) All reinforcing battens shall be arranged as shown in the drg.
- (xi) All planks/battens should be used in one piece without joint.
- (xii) Base shall be raised by 50mm above ground to facilitate sling provision.
- (xiii) All corner joints of battens should be anchored using steel straps and nails.
- (xiv) Items should be packed tight using suitable cushioning material to ensure safe scratch free delivery at sites.
- (xv) Clamps / tie bars to be used so that the individual jobs within a crate are firmly held.
- (xvi) BHEL / Third Party inspector should certify the completeness of box as per packing list described in point 3 above before closing the box.

6. Sizes of Boxes/crates to be used and their weights are given in Annexure to this Schedule XI.
7. Supplier shall also send one copy of BHEL supplied Annexure wherein against each item either the relevant Box no & applicable sl no of that box's packing list no will be mentioned (if that annexure item is packed in box) or "loose" will be mentioned (if that annexure item is not supplied in box). This copy shall be sent with each despatch challan.
8. Any change in the box size requires the approval of BHEL. In case BHEL approves an additional size / amends a size of box for a particular item / rating, the same may be made applicable thereupon to all vendors during the currency of the contract.
9. Wherever, the need for packing is not there, the same shall be spelt out in the respective order(s).



Annexure to Schedule X

BOX CRATE DIMENSIONS FOR ACCESSORIES OF POWER TRANSFORMER TANK

Pine Wood material to specn AA51401, Crate Construction as per drawing BP 7842078190.

Sl No	Box Crate Dimensions				Remarks
	Length (mm)	Width (mm)	Height (mm)	Weight (kgs)	
1	1000	750	500	47	Box no 101, 401
2	3200	1100	650	189	Box no 201, 301
3	3200	600	650	123	Box no 201
4	3000	800	500	122	Box no 201, 301
5	2000	500	500	68	Box no 201, 301
6	4800	1500	900	325	Box no 301
7	1500	600	450	46	Box no 501
8	3200	600	450	94	Box no 501
9	4000	550	550	129	Box no 601
10	3000	2000	1000	283	Box no 701



Schedule -XI

To,
Dy. Manager (MM)
BHEL JHANSI-284129.

Subject: Price Bid against Rate Contract Enquiry no. E3599002 for Power Trfr Tank on Finish Basis

Dear Sir,
We are quoting Techno-commercial bid, basic rate as under:

S. No.	Description	To be filled by the bidder (₹/Kg)
1	Name & Address of the supplier	
2	Basic Rate on F.O.R. destination basis (Rate in ₹ per kg basis) in figures	
3	Basic Rate on F.O.R. destination basis (Rate in ₹ per kg basis) in words	

- Note:- (i) Above rate are quoted based on base rate of JPC ₹ 41.95 per kg of May'19 Delhi.
(ii) The above quoted rates are inclusive of packing & forwarding charges on F.O.R. destination basis.
(iii) In addition to above Additional Charges as per Para 6 of Schedule III (if any) shall also be paid by BHEL.
(iv) The price bid if submitted in any other fashion or by adding any condition (e.g. minimum order quantity, rates applicable for specified quantity, discount for quantity, rate based on slabs, rate based on terms of payment etc.), offer shall be straight way REJECTED even if, offer has been found technically & commercial acceptable before opening of price bid

Signature of Supplier :

Name :

Designation :
Seal





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BHARAT HEAVY ELECTRICALS LIMITED
(A Govt of India undertaking)
MATERIALS MANAGEMENT (MM), JHANSI - 284129
ANNEXURE A TO SCHEDULE I
TENDER ENQUIRY NO: E3599002

All requirements should be mandatorily filled, relevant documentation enclosed, and every page should be signed and stamped by the bidder.

QUALIFYING REQUIREMENTS

SI	Description of Qualifying requirement	Copy encl.												
1	Average Annual financial turnover during the last three years, ending 31st March of the previous financial year, should be at least 144.86 lakhs approx. (Rs 135.13 lakhs approx. in case of MSE vendors) The bidder to fill the turnover details as per the format given below : <table><tr><th>Financial Year</th><th>To be filled by Bidder</th></tr><tr><td></td><th>Turnover (lakhs)</th></tr><tr><td>2018-19</td><td></td></tr><tr><td>2017- 18</td><td></td></tr><tr><td>2016-17</td><td></td></tr></table> As evidence of the above information, bidder to attach Audited Balance sheet including Profit & Loss Statement of last three financial years. In case the Balance Sheet of the last financial year is not yet audited, the un-audited balance sheet of the last financial year can be enclosed along with certificate of CA.	Financial Year	To be filled by Bidder		Turnover (lakhs)	2018-19		2017- 18		2016-17		Yes	No	
Financial Year	To be filled by Bidder													
	Turnover (lakhs)													
2018-19														
2017- 18														
2016-17														
2	Work Experience (i) The total tonnage of Heavy fabrication jobs (the tonnage of each job should be atleast more than 5 MT) successfully completed by the bidder during last two years (Seven years in case of MSE Vendor), ending last day of month previous to the one in which applications are invited, should be equal to or more than 160.88 MT (150.06 MT in case of MSE vendors) and (ii) Out of the tonnage of 160.88 MT (150.06 MT in case of MSE vendors) mentioned above, the bidder must have successfully completed at least three nos (two nos in case of MSE vendors) of Power Transformer tanks inclusive of Accessories (tonnage of each more than 15 MT) during last two years (ending last day of month previous to the one in which applications are invited). The bidder to mandatorily fill the details of experience as per Annexure A1 to Schedule I, enclose the same, and the summary to be filled by bidder should be as under: <table><tr><th rowspan="2">Jobs executed in last two years (ending last day of month previous to the one in which applications are invited).</th><th colspan="2">To be filled by Bidder</th></tr><tr><th>No of jobs</th><th>Tonnage (MT)</th></tr><tr><td>Total Heavy Fabrication jobs (the tonnage of each job should be atleast more than 5 MT)</td><td></td><td></td></tr><tr><td>No of Power Transformers inclusive of Accessories (tonnage of each set more than 15 MT)</td><td></td><td></td></tr></table>	Jobs executed in last two years (ending last day of month previous to the one in which applications are invited).	To be filled by Bidder		No of jobs	Tonnage (MT)	Total Heavy Fabrication jobs (the tonnage of each job should be atleast more than 5 MT)			No of Power Transformers inclusive of Accessories (tonnage of each set more than 15 MT)				
Jobs executed in last two years (ending last day of month previous to the one in which applications are invited).	To be filled by Bidder													
	No of jobs	Tonnage (MT)												
Total Heavy Fabrication jobs (the tonnage of each job should be atleast more than 5 MT)														
No of Power Transformers inclusive of Accessories (tonnage of each set more than 15 MT)														





BHARAT HEAVY ELECTRICALS LIMITED
(A Govt of India undertaking)
MATERIALS MANAGEMENT (MM) , JHANSI - 284129
ANNEXURE A TO SCHEDULE I
TENDER ENQUIRY NO: E3599002

All requirements should be mandatorily filled, relevant documentation enclosed, and every page should be signed and stamped by the bidder.

SI	Description of Qualifying requirement			Copy encl.	
	Supplies made to	Documentary Proof to be attached	Bidder to Tick '✓' whichever is applicable	Yes	No
	As evidence of the above information, the bidder to attach the documentary proof as below :				
	BHEL, Jhansi or BHEL, Bhopal or other Units of BHEL	Purchase Order Copies to be submitted			
	Other PSUs / Govt Undertakings	Copy of Performance certificate & Purchase Order issued by Customer for successful execution of the jobs to be submitted			
	Private Sector	Copy of Performance certificate, Purchase Order and relevant Excise Tax Invoice / TDS certificate must be attached.			
3	Declaration by the Bidder regarding compliance to Mandatory Resource Requirements along with the necessary documentary proof (wherever called for) to be mandatorily filled and submitted. (as per Annexure B to Schedule I).			Yes	No
4	Proforma for Information on Desirable Resource Requirements to be mandatorily filled and submitted (as per Annexure C to Schedule I).			Yes	No
5	Self Certificate/Declaration (as per Annexure A2 to Schedule I).that (a) the bidder is not suspended by BHEL Jhansi or any Unit/Office of BHEL or any other organization, and (b) the bidder is not guilty by a Court of Law in India for any offence involving fraud, dishonesty and moral turpitude.			Yes	No
6	Permanent Account Number (PAN) Number of Supplier & GSTIN No of Supplier (not required, in case, already submitted to BHEL, Jhansi) (In case the PAN number is not in the name of the firm, the relevant records linking the ownership to be provided)			Yes	No
7	Part I (Techno - Commercial Bid) & Part II (Price Bid)			Yes	No

We agree that our bid is liable to be rejected in case (a) the relevant information is not filled, (b) documentation is incomplete, (c) there are false declarations, and (d) if we do not meet the criteria on Financial Turnover, Experience & Mandatory Resource requirements.



(Signature of the Supplier
with Name, Designation & Seal)



(62) (62)

BHARAT HEAVY ELECTRICALS LIMITED
(A Govt of India undertaking)
MATERIALS MANAGEMENT (MM) , JHANSI - 284129

TENDER ENQUIRY NO: E3599002

ANNEXURE B TO SCHEDULE 1

DECLARATION BY BIDDER THAT THE FOLLOWING MANDATORY RESOURCE REQUIREMENTS ARE AVAILABLE WITH THEM

All requirements are mandatory and every page should be signed and stamped by the bidder. The bidder certifies that the following minimum mandatory requirements are available with them. Outsourcing is not allowed for these requirements.

SI	Requirements
A	General
1	Covered Shed with concrete floor for fabrication and Assembly (Minimum area 450 sqm). This should exclude requirements sought for ' Separate area' as called at ' E ' below.
2	Overhead EOT Crane (the bidder should have a minimum one no. crane capacity of 15 MT or two nos crane capacity of 10 MT each)
3	Bed Plates (perfectly levelled) in single location , big enough to cover complete tank rim size 6000 mm x 3000 mm approx..
B	Manpower
4	Minimum three Qualified Welders as per ASME section IX or AWS D 1.1 for MS to MS Welding - GMAW / FCAW (Necessary qualification certificates to be submitted) and following information to be filled.
5	Fitter (Minimum two required)
6	Grinder (Minimum three required)
7	Crane Operator (Minimum one required)
8	Painter (Minimum one required)
9	Technical staff for reading and understanding the technical documents & ,inspection of jobs (Minimum one employee with Diploma / Degree in Mechanical Engg)
C	Working Facilities
10	Pug Cutting Machine (Minimum two nos with capacity to cut thickness upto 32 mm)
11	Portable Radial Arm Drilling Machine RM 63 (Minimum one number with capacity to drill Hole Dia 63 mm)
12	Tools for Tapping
13	Vacuum Pump (Minimum one number to generate a Vacuum of 760 mmHg)
14	Air Compressor (Atleast one number to generate Minimum pressure of 1.5 kg / sq. cm)
15	Welding Machines GMAW / FCAW (Minimum 3 numbers)





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DECLARATION BY BIDDER THAT THE FOLLOWING MANDATORY RESOURCE REQUIREMENTS ARE AVAILABLE WITH THEM

All requirements are mandatory and every page should be signed and stamped by the bidder. The bidder certifies that the following minimum mandatory requirements are available with them. Outsourcing is not allowed for these requirements.

16	Portable Hand Grinding Machines (Minimum 3 nos)
17	Radial Drills (Maximum drill size 63 mm dia)
18	Electrode Heating Oven with thermostatic temperature controller (Minimum one no Fixed type with maximum temperature of 300°C)
19	Electrode Storage Ovens (Minimum four numbers Portable type, each with an electrode storage capacity of 2 kg)
D	Testing facilities
20	Vacuum Testing
21	Pressure Testing
22	Dye Penetrant (DP) Testing
23	Log Book for Blasting & Painting
E	Separate Area
24	Degreasing & Cleaning (Minimum 100 sqm of Covered Shed)
25	Painting (Minimum 100 sqm. of Covered Shed)
26	Storage (Minimum 100 sqm)
F	Instruments
27	Pressure Guages - Minimum two nos. of range 0 -2 kg per sq cm (Calibrated from NABL / Government accredited agency)
28	Vacuum Guages - Minimum one no. of range 0 - 760 mm Hg (Calibrated from NABL / Government accredited agency)
29	Straight Edges
30	Feeler Guages (1 set) to measure clearances
31	Paint thickness measuring instrument (Measurement range between 0 - 300 microns.)
32	Viscometer
33	Spray Painting System
34	Thread Checking Guages (M4,M6,M10,M12,M16,M20,M24)
35	Barometer





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DECLARATION BY BIDDER THAT THE FOLLOWING MANDATORY RESOURCE REQUIREMENTS ARE AVAILABLE WITH THEM

All requirements are mandatory and every page should be signed and stamped by the bidder. The bidder certifies that the following minimum mandatory requirements are available with them. Outsourcing is not allowed for these requirements.

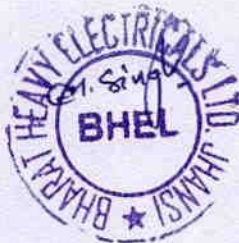
36	GO, NO GO gauges for limiter grooves
37	Vernier Calipers with minimum range of 300 mm (Calibrated from NABL / Government accredited agency)
39	Tape for paint adhesion (minimum one-inch (25-mm) wide semi transparent pressure-sensitive tape with an adhesion strength as per ASTM 3359)
40	Measuring Tape (Calibrated from NABL / Government accredited agency)

Address of Works	
Name of Contact Person	
Contact no & E mail ID	

We declare that the above mandatory facilities are available at our works. Our offer is liable to be rejected in case the above mandatory requirements are not available at our works / information (wherever called) is not filled. BHEL reserves the right to assess the facilities of bidders at random at any point of time and we agree for penal action from BHEL in case any of the above information furnished by us is found to be false.

Date:

(Signature of Supplier
with Name, Designation and Seal)





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BHARAT HEAVY ELECTRICALS LIMITED
(A Govt of India undertaking)
MATERIALS MANAGEMENT (MM) , JHANSI - 284129

TENDER ENQUIRY NO: E3599002

ANNEXURE C TO SCHEDULE 1

PROFORMA FOR INFORMATION ON DESIRABLE RESOURCE REQUIREMENTS

All requirements should be mandatorily filled and every page should be signed and stamped by the bidder. Wherever information is sought regarding availability of a facility, strike off whichever is not applicable ' Available / Not Available.' If the facility is outsourced, mention 'OS'.

Sl	Requirements	To be filled in by Bidder		
A	General			
1	Office for storing and referring the documents	Available	Not Available	OS
2	Bed Plates (perfectly levelled) in single location , big enough to cover complete tank rim size 8000 mm x 4000 mm approx..	Available	Not Available	OS
B	Manpower			
3	Organization Structure (to be submitted)	Available	Not Available	
C	Working Facilities			
4	Plate Bending Machine (Minimum working thickness 16 mm)	Available	Not Available	OS
5	Plate Cutting Machine (Minimum working thickness 32 mm)	Available	Not Available	OS
6	Plate Rolling Machine (Minimum working thickness 8 mm)	Available	Not Available	OS
7	Milling Machine	Available	Not Available	OS
8	Lathe Machine	Available	Not Available	OS
9	Shot Blasting Set up			





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ANNEXURE C TO SCHEDULE 1

PROFORMA FOR INFORMATION ON DESIRABLE RESOURCE REQUIREMENTS

All requirements should be mandatorily filled and every page should be signed and stamped by the bidder. Wherever information is sought regarding availability of a facility, strike off whichever is not applicable ' Available / Not Available.' If the facility is outsourced, mention 'OS'.

Sl	Requirements	To be filled in by Bidder		
	Minimum Size W x L x H (6mtr x 9 mtr x 5 mtr)	Available	Not Available	OS
10	Heating Ovens for Painting	Available	Not Available	OS
D	Testing facilities			
11	UT & Radiographic test on weld	Available	Not Available	OS
12	Raw Material testing	Available	Not Available	OS
13	Hydraulic test of tank	Available	Not Available	OS
14	IP-55 test	Available	Not Available	OS
F	Instruments			
15	Vacuum Cleaner	Available	Not Available	OS
16	Torque Spanners	Available	Not Available	OS
17	Humidity Measuring Instrument	Available	Not Available	OS
E	Other features			
18	Water Storage and Drainage System	Available	Not Available	OS
19	Water Heating arrangement for Hot water Cleaning (Temp : 80 degrees centigrade)	Available	Not Available	OS
20	High Pressure Water Pump for cleaning and degreasing	Available	Not Available	OS
21	Availability of ISO Certificate (If available, enclose the copy of the certificate)	Available	Not Available	
22	Approved by end users like NTPC,	If Approved, indicate the		





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BHARAT HEAVY ELECTRICALS LIMITED
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MATERIALS MANAGEMENT (MM) , JHANSI - 284129

TENDER ENQUIRY NO: E3599002

ANNEXURE C TO SCHEDULE 1

PROFORMA FOR INFORMATION ON DESIRABLE RESOURCE REQUIREMENTS

All requirements should be mandatorily filled and every page should be signed and stamped by the bidder. Wherever information is sought regarding availability of a facility, strike off whichever is not applicable ' Available / Not Available.' If the facility is outsourced, mention 'OS'.

SI	Requirements	To be filled in by Bidder	
	PGCIL, SEBs, etc. (If available, Performance certificates to be enclosed)	names of Customers	
23	From where is the raw material like Steel Plates sourced.	Indicate the probable sources	
24	From where are the Paints sourced.	Indicate the probable sources and brands	

Our offer is liable to be rejected in case we have not filled / not marked / left blanks in the above criteria.

Date:

(Signature of Supplier
with Name, Designation and Seal)



TENDER ENQUIRY NO: E3599002

'Job' means a single descriptive Purchase Order item for which an order has been placed. Sum of different items of a Purchase Order will not constitute a 'Job'.

Sl	Customer	BHEL / GOVT PSU / PRIVATE	PO No	PO Dt	Rating (MVA)	PO Qty.	Weight Per job (MT)	PO Completion date	Whether Proof of completion enclosed	
A	Power Transformer Tanks with Accessories (each job more than 15 MT)									
1									Yes	No
2									Yes	No
3									Yes	No
	TOTAL ' A '									
B	Other Heavy Fabrication Jobs (each job more than 5 MT)									
1					NA				Yes	No
2					NA				Yes	No
3					NA				Yes	No
4					NA				Yes	No
5					NA				Yes	No
6					NA				Yes	No
7					NA				Yes	No
8					NA				Yes	No

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ANNEXURE A1 TO SCHEDULE I

TENDER ENQUIRY NO: E3599002

'Job' means a single descriptive Purchase Order item for which an order has been placed. Sum of different items of a Purchase Order will not constitute a 'Job'.



Sl	Customer	BHEL / GOVT PSU / PRIVATE	PO No	PO Dt	Rating (MVA)	PO Qty.	Weight Per job (MT)	PO Completion date	Whether Proof of completion enclosed	
9					NA				Yes	No
10					NA				Yes	No
11					NA				Yes	No
12					NA				Yes	No
13					NA				Yes	No
14					NA				Yes	No
15					NA				Yes	No
16					NA				Yes	No
17					NA				Yes	No
18					NA				Yes	No
19					NA				Yes	No
20					NA				Yes	No
	TOTAL ' B '									
	GRAND TOTAL ' A + B '									

We agree that our bid is liable to be rejected in case of incomplete data / false declarations.

(Signature of the Supplier
with Name. Designation & Seal)

TENDER ENQUIRY NO. E3599002

Date :

Self Declaration

1. I / We, as on date of tender opening, have never been found guilty by a court of law in India for any crimes of fraud, dishonesty or moral turpitude
2. I / We, as on date of tender opening, have never been suspended by BHEL Jhansi or any Unit/Office of BHEL or any other organization.
3. I / We undertake to abide by all statutory and regulatory requirements while carrying out jobs for BHEL Jhansi.

(Signature of the Supplier with Name, Designation & Seal)

