

BOKARO POWER SUPPLY CO. (P) LTD.

**HALL NO:- M-01, OLD ADMINISTRATIVE BUILDING,
ISPAT BHAVAN, BOKARO STEEL CITY – 827001**

**Reg. Office : Ispat Bhawan, Lodhi Road, New Delhi – 110 003
CIN:U40300DL2001PTC112074**

**TENDER NOTICE NO. BPSCL/MM/21-22/PUR-041/NIT-1019/1819
Dated 28.06.2021**



TENDER DOCUMENT

**SUBJECT: SUPPLY, INSTALLATION, TESTING & COMMISSIONING OF
ONE (01) NUMBER OF NEW POWER TRANSFORMER WITH ITS
COOLING PLANT & ALL ACCESSORIES HAVING CAPACITY 50
MVA, 138 kV / 11.5 kV**

INDEX

Sl. No.	Subject	Page No.
1	Cover Page	1
2	Index	2
3	Notice Inviting Tender	3-4
4	Section – I Conditions & Rules to be observed in submitting Tenders	5 - 7
5	Section – II General Terms and Conditions	8 - 9
6	Section – III Techno-Commercial Terms & Conditions	10-13
7	Section – IV Price BID / RA Format	14
8	Annexure – I Scope of Supply	15
9	Annexure – II Technical Specification	16-17
10	Annexure – III Format for Bid Securing Declaration (In lieu of EMD)	18
11	Annexure – IV Self Declaration	19
12	Annexure - V Format for RA Acceptance	20
13	Annexure - VI Format for submitting Last Quoted Price	21

Bokaro Power Supply Co. (P) Ltd.

(A Joint Venture of SAIL & DVC)

Hall No: - M-01, Old Administrative Building,

Ispat Bhavan, Bokaro Steel City – 827001

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NOTICE INVITING TENDER

NIT No.: BPSCL/MM/21-22/PUR-041/NIT-1019/1819

Date: 28.06.2021

For and on behalf of BOKARO POWER SUPPLY COMPANY (P) LTD, sealed tenders in two parts, **Part - A** : EMD and **Part- B** : Technical & Commercial Offer with copy of system generated acknowledgement-slip for online submission of sealed price are invited from the bidders meeting the qualification criteria stipulated in the bidding documents for supply of following items:

Item	Supply, Installation, Testing & Commissioning of one (01) number of New Power Transformer with its cooling plant & all accessories having capacity 50 MVA, 138 kV / 11.5 kV
Earnest Money (in Indian Rs.)	Nil In lieu of EMD, the bidder shall submit either Bid Securing Declaration as per clause 1 (a) of General Terms & conditions. OR Document for Exemption as per clause 1 (b) of General Terms & conditions.
Last date & time for submission of tender	27.07.2021 up to 12: 00 Hours
Bid Opening date & time	27.07.2021 at 12:15 PM

Qualifying Requirements: -

- The bidder should have minimum average annual turnover (MAT) of **Rs. 1.20 Crore** only.
 - Average annual turnover shall be determined taking into consideration turnover of preceding three (03) consecutive financial years. Other income shall not be considered for arriving at annual turnover.
 - Audited annual account along with auditor's report of the bidder should be furnished in support of the same. Where audited account is not mandatory as per the law, the bidder has to submit annual financial turnover during the consecutive last three (03) years ending 31st March of the previous financial year duly certified by CA.
- The bidder should be "Manufacturer of Power Transformers".
- The manufacturer shall have valid ISO-9001 certification (or equivalent or more advanced certification) for manufacturing of Power Transformers, duly issued by competent authority as on bid opening date. Proof of the same must be submitted along with the techno-commercial bid.
- The bidder shall have infrastructure facilities for carrying out at least one core activity like Designing / Core Assembling / Winding Manufacturing / Testing along with assembly required for manufacturing of Transformer.
- The bidder is required to submit self-attested photocopies of recent purchase order (PO) (s), (issued within last ten years ending last day of month previous to the one in which offers are invited) as proof of supply of Power Transformers of capacity 50 MVA or more, with voltage level at HT side 132 kV or more, supplied in India to any PSU / Government / Semi Government Organization or Joint Venture thereof / Company registered under Companies Act. In addition, bidder shall submit a self declaration in enclosed format at **Annexure – IV**.
- The bidder shall have to submit a certificate issued by the PO issuing authority for satisfactory performance of the transformer over a period of last three (03) years (at least) for the P.O. submitted by the bidder.
- The bidder shall furnish latest **IT return** and **GSTIN**. The bidder shall also submit acceptance to Terms & Conditions of Reverse Auction in the format attached at **Annexure – V**.

General Terms & Conditions:

i) Earnest Money:

- In lieu of EMD, Bidders shall have the option of submitting a Bid Securing Declaration accepting that if they withdraw / modify their Bids during the period of validity without assigning any valid reason for the same or refuse to submit Performance Security / Performance Guarantee as per the relevant Clause of this tender enquiry or refuse to accept the price quoted by them in Online Price Bid / Reversed Auction within the period of validity of the same or refuse to sign the Contract Agreement upon emerging as the successful bidder, they will be suspended for a period of one year from being eligible to submit bids against tender enquiries of BPSCL. A Format of Bid Securing Declaration is provided at **Annexure - III**.

- b) Micro & Small Enterprises (MSEs) / PSU /Govt. Undertakings and Co-operative societies will be exempted from submission of Earnest Money as per government policy. For MSEs, the exemption from submitting Earnest Money will be granted only on submission of valid copy of Udyam Registration Certificate. SSI/NSIC certificate holders should also submit Udyam Registration Certificate. Further, unit claiming exemption is required to submit copy of Udyam registration certificate clearly indicating the item category for which they are registered.

Note: Offers not accompanied with Bid Security Declaration (*as per clause a*) or documents for exemption (*as per clause b*) will be treated as INVALID.

- ii) Consortium bids will not be considered unless the provision for consortium is specifically mentioned in Tender Document.
- iii) If you withdraw your bid after opening of bids without giving any satisfactory and acceptable explanation thereof, you shall be debarred from participating in any tender of BPSCL for a minimum period of 01 (one) year.
- iv) You should quote your firm rates and no negotiations will be held except with the lowest bidder, if required.
- v) **RATE FINALIZATION**: BPSCL reserves the right to finalize the rate through either of the following modes:
- Opening of Online Price (*submitted on www.buyjunction.in*) submitted at the time of techno-commercial bid.
 - Through Reverse Auction to be conducted by our service provider **M/s. mjunction**.

Note: BPSCL may ask techno-commercially accepted bidders to submit decrement in percentage (%) on their online price submitted at the time of techno-commercial bid. On line price bid alongwith % decrement shall be considered together in case online price bid is opened.

vi) **BPSCL reserves the right to :**

- Re-tender / extend the due date of submission of offer.
- Accept or reject any offer / all offers in full or part at any time at any stage without assigning any reasons—and without any compensation thereof to the bidders.
- Modify the tender documents at any stage before the due date of tender.

Note:

- Tender documents are to be downloaded from **Website: www.bpscl.com** only.
- Bidders are requested to visit above website regularly for any addendum / corrigendum / extension till opening of the NIT. **Any such changes shall not be published through Press advt.**

For and on behalf of
Bokaro Power Supply Company (P) Limited

(A.K. Das)
General Manager I/c (MM)
Tel: 8986874119
Email: purchase.bpscl@gmail.com

CONDITIONS & RULES TO BE OBSERVED IN SUBMITTING TENDERS

1.01 Manner of Submission of the Tender

The tender shall be divided into 02 parts as follows:-

- a) **Part A:** This part shall comprise of Bid securing Declaration/ Exemption document.
- b) **Part B:** This part shall comprise of Technical and Commercial details, consent on terms & conditions of NIT/ signed Tender Document along with copy of **SYSTEM GENERATED ACKNOWLEDGEMENT-SLIP FOR ONLINE SUBMISSION OF SEALED PRICE*** bid etc.

Sealed Tender *through Regd. Post/Speed Post/In-person/Courier Service* only, in an envelope containing 02 (Two) separate sealed envelopes (*as mentioned above*) with NIT No. & date of opening along with Sender's Name & Address printed on it, is to be sent to the below mentioned address:

General Manager I/c (MM)
Bokaro Power Supply Co. (P) Ltd.
Hall No.M-01, Old ADM Building
Ispat Bhawan, Bokaro Steel City – 827001
Ph: 06452 240380, Mob: 8986874119

*** PROCESS FOR ONLINE SUBMISSION OF SEALED PRICE:**

1. Online sealed Price Bid (**Landed Cost per unit Excluding GST**), through URL: **<http://www.buyjunction.in>**.

The process of submission of Online Price bid is as detailed hereunder-

- Step 1: Type **<http://www.buyjunction.in>** in the internet explorer.
- Step 2: Click on Login (present on Top right side of the Page)
- Step 3: Click on **View Live Auctions and Tenders**.
- Step 4: In the right side open/ global tenders link will be displayed.
- Step 5: Click on the link for the above mentioned tender link present under Open tenders
- Step 6: Click on new user if you are not registered in buyjunction earlier. Click on Existing user in-case you have already registered in buyjunction earlier. Existing users can login with their user id and password.

Please note foreign bidders are required to select their bidding currency from the drop down menu available before proceeding further (where ever applicable).

New Users:

Steps to get your **User ID** and **Password**

1. Click on the required tender link under “**Open Tenders**”
2. Choose your Auction currency in-case any option is coming to select currency. Click on “**New User**”
3. Fill up the “**Registration Form**” and click on “**Submit**”. All fields marked with (*) are mandatory fields.
4. On submitting the filled-up registration form, an auto generated email will be sent to the email address you have mentioned in the registration form containing your User ID and Password.
5. Changing of password on first login is compulsory.
6. On receipt of the User ID and Password you become an **Existing User**. Now follow the steps of existing user to login to the auction site.

Existing Users

1. Click on the required tender link under “**Open Tender**”
2. Click on “**Existing User**”.
3. Log in with your existing user id and password for placing your bid.
4. Read through the “**Bidding Procedure**” to proceed further for bidding.

Bidding Procedure

After logging in with your user id and password you have to accept the “**Auction Terms**”.

Steps to accept the “Auction terms”:

1. Click on “**Auction Terms**”.
2. Then click on “**View term without DSC**”
3. Click on the relevant auction terms appearing under “**Term**” column.
4. Select the check box on the left-side of the relevant auction terms.
5. Click on the button besides “**Accept**”.
6. Then click on “**Submit**”.
7. A message will be displayed to you mentioning your acceptance to terms for auction.
8. It is mandatory to accept the terms of online bidding in order to proceed for submission of bid.

Steps to Submit Price Bid

1. Click on “**Bids.**”
2. Then click on “**Live Auction.**”
3. Put your login password as transaction password
4. Select the auction id and click on add to watch list.
5. Now the bidding screen is visible.

6a. For Template Bidding

1. Click on **Icon “T”** on left column of bidding screen (Which will appear separately **for each lot**).
2. A template form will open where you need to fill up the price & click on evaluate at the bottom
3. If you want to quote the evaluated price then click on “**confirm**”.
4. After clicking on the confirm button of the template window, your price will appear in the “**New Bid**” box.

6b. For Non-Template Bidding

1. Fill your Price in the “**New Bid Box**” visible on the bidding screen.
2. Select the check box at the extreme left of the bidding screen
3. Click on “**Submit**” button placed at the bottom left of the screen.
4. Bid once placed will have to be honoured.
5. You will see “**Bid Accepted**” in the “**Result**” column. This indicates that your bid is accepted and registered in the system.

Steps to take a print-out of the receipt

1. Once you have placed your bid, to download Bid Receipt, kindly click on “**Download**”.
2. Then click on “**Bid Receipt for Open Tender**”.
3. Select the auction to generate receipt.
4. Take print out of the same market-wise (Term List) / item-wise (Auction list).

Note: For any clarification on the bidding process please contact

Mr. Anjan Buda - 9163348263 - anjan.buda1@mjunction.in

Ms. Debalina Maity - 8336991451 - maity.debalina@mjunction.in

Ms. Bingyasini Pradhan - 9163348173 – pradhan.bingyasini@mjunction.in

Ms. Priyanka Mazumdar - mazumdar.priyanka@mjunction.in

Mr. Mukesh Kumar Singh- 8873002741 – mukesh.singh@mjunction.in - for Bokaro Office

A copy of System generated acknowledgement-slip for Online submission of sealed price bid is to be submitted along with Techno-commercial Bid.

1.02 Tender Validity Period

Validity of the offer shall be **six (06) months** from the bid opening date. In case of extension of "Bid submission & Opening Date", the validity will be counted from the extended bid opening date.

1.03 General Instructions:

- i) You shall clearly indicate that your prices shall remain firm in all respects till execution of the order.
- ii) Specification, quantity, unit rate, freight, insurance, packaging, forwarding, taxes etc. should be mentioned separately and clearly.
- iii) Any conditional offer or offer having deviations is liable to be rejected.
- iv) Where agent commission is involved the same is to be indicated in percentage.

- v) You have to submit Tender Document bearing your signature and seal on all the pages along with Techno-commercial offer / Consent on NIT's Terms & Conditions. Otherwise, it will be presumed that you do not accept our terms and conditions and this may lead to rejection of offer forfeiting your claims if any.
- You are advised to mention page no. on each page of documents submitted by you. BPSCL shall not bear any responsibility in case of any loss of documents submitted by you during tender opening or thereafter.
- vi) If you are a Firm or Company, then you shall, in the forwarding letter, mention the number and names of all the partners & shall sign before submitting the same, unless the Power of Attorney holder has specifically been authorized in this respect.
- vii) The tender rates shall be written in English, both in words and figures. In case of any discrepancy between the words & figures of the rates quoted, the rates expressed in words shall be taken as correct. In case of discrepancy in the Unit Rate and Amount, Unit Rate will govern.
- viii) Price or any indication of price shall **NOT** be mentioned in the Techno-Commercial Bid.
- ix) The sealed tenders received will be opened on scheduled opening date and time in the office of Material Management, in presence of such bidders who might choose to witness the same
- x) In case the date of tender opening happens to be holiday, the tender will be opened on the next working day at the same time.
- xi) Communication regarding date of opening of Price-Bid to the techno-commercially eligible bidders will be sent only to their e-mail address given in tender documents.
- xii) Offers from two or more bidders shall summarily be rejected if they have any of the following parameters common:
- a) Same PAN
 - b) Same GST Number
 - c) Same Postal address
 - d) Same E-mail ID
 - e) Same Mobile number
 - f) Same person signing in more than one offer/representing more than one bidder.
- xiii) BPSCL reserves the right either to reject any/all the tenders without assigning any reason thereof.

2.00 GENERAL TERMS AND CONDITIONS

- 2.01 BPSCL reserves the right to ask for original documents for verification at any time during tendering, evaluation and / or the execution of the contract. In case any documents / information submitted by you is / are found to be false or containing any misrepresentation or having any fraudulent declaration in it, then, in such eventuality, legal action (including cancellation of contract, banning of business dealing, criminal proceedings etc.) as deemed fit may be initiated by BPSCL against you.
- 2.02 **Packing :**
- a) **Responsibility for proper packing** – You shall be responsible for the materials being sufficiently and properly packed, for transport by rail / road / sea / air / any combination of above, so as to ensure their being free from loss or damage on arrival at the destination.
 - b) **Marking of Packages, Packing, etc.** - Each package delivered under the contract shall bear the following:-
 - Name of the Supplier
 - Contract/Order Number
 - Consignee's name and address
 - Description and quantity of contents
 - Gross weight, net weight,
 - Distinctive number or mark which is also to be shown, for the purpose of identification, on the Supplier's packing list.
 - Catalogue Number
- 2.03 **Delivery:** Timely delivery is the essence of the contract & must be completed as per the dates specified therein.
- 2.04 **Liquidated Damages:**
- a) **For Supply of Good:** LD will be applicable @ of 0.5% of the value of the delayed material for each week of delay or part thereof subject to maximum 5% of the total value of supply of goods, if delivery of items is delayed beyond twelve (12) months from date of issuance of purchase order excluding the time taken by BPSCL in approval of drawing & documents.
 - b) **For Supply of Service:** LD will be applicable @0.5% of the value of the delayed work for each week of delay or part thereof subject to maximum up to 5% of value of supply of service, if service part is delayed beyond one and half (1.5) months from the date of commencement of work due to reasons attributable to the contractor.
- 2.05 **Risk Purchase:** If you fail to deliver the material either in full or in part, within the prescribed delivery period, BPSCL shall be entitled at its option to take alternate procurement action, at your risk & cost for the unsupplied portion of the goods / items for which delivery period has expired.
- 2.06 You must mention applicable GST rate in your offer with compliance of following GST clauses:
- a) You shall have to quote GST as extra. If not mentioned, same will be considered as EXTRA.
 - b) You shall have to pass on the tax benefit/savings, if any, on account of output taxes to BPSCL.
 - c) You shall agree to do all things not limited to providing GST invoices or other documentation as per GST Law relating to the above Services, payment of taxes, timely filing of valid statutory returns for the tax period on the Goods and Service Tax Portal etc. that may be necessary to match the invoice on GSTN common portal and enable BPSCL to claim input tax credit in relation to any GST payable under this agreement or in respect of any part under this agreement.
 - d) In case the Input Tax Credit of GST is denied or demand is recovered from BPSCL on account of any non-compliance by you, including non-payment of GST charged and recovered, you shall indemnify BPSCL in respect of all claims of tax, penalty and/or interest, loss, damage, costs, expenses and liability that may arise due to such non-compliance. Further, in case of any differential tax liability on account of any wrong classification/valuation etc. by you, BPSCL will not be liable to reimburse any part of such differential tax, interest, penalty etc. It will be your sole responsibility to discharge appropriate taxes, as applicable.
 - e) You shall have to maintain high GST compliance rating track record at any given point of time.
- 2.07 **Bank Details:** Bank details mentioning Account number, Bank name, City, Branch name and Branch code should be mentioned in the offer for NEFT / RTGS payment.
- 2.08 **Paying authority – In-charge (F&A), BPSCL.** Bill in triplicate duly receipted on the revenue stamp with a copy of TC & Packing list etc. are to be submitted to In-Charge (F&A), Bokaro Power Supply Company (P) Limited for processing of the same.

- 2.09 **Inspection:** Acceptance of material is subject to inspection. Final Inspection will be done at BPSCL Stores after receipt of material.
- 2.10 **FORCE MAJEURE:** You shall not be considered in default if delay occurs due to reason beyond your control such as acts of God, natural calamities, civil wars, fire, strike, frost, floods, riot and acts of unsurpassed power. Only those causes which have duration of more than seven days shall be considered in force majeure clause. In the event of delay due to such clause the delivery period will be extended for a length of time equal to the period of force majeure at the option of BPSCL. Order may be cancelled without any liability what so ever on the part of BPSCL.
- 2.11 **Banning of Business Dealings:** On arising of any situation or occurrence of any event as mentioned in Clause 6 of the Guidelines on Banning of Business Dealings, you shall be liable for action under and in accordance with the aforementioned Guidelines. The “Guidelines on Banning of Business Dealings” shall form part of the Tender/Contract and can be viewed on our website www.bpscl.com.
- 2.12 **Security Deposit:** In case Purchase order is placed upon you, you shall have to deposit Security Deposit at the rates mentioned below for satisfactory execution of the order:

Sl. No.	Purchase order value (Excluding GST)	Amount of Security Deposit
i.	Up to Rs. 100 Lakhs	03% of Purchase order value.
ii.	Over Rs. 100 Lakhs to Rs. 500 Lakhs	02% of P.O. value, subject to minimum of Rs. 3,00,000.00.
iii.	Over Rs. 500 Lakhs	01% of P.O. value, subject to minimum of Rs. 10,00,000.00.

The Security Deposit shall be in the form of **Bank draft / Bankers Cheque / Bank Guarantee** (as per BPSCL format available at bpscl.com) having validity up to guarantee period of the item to be supplied plus three (03) months of claim period. **Bank Draft / Bankers Cheque** shall be in favor of Bokaro Power Supply Company (P) Ltd. payable at Bokaro Steel City.

The expression “satisfactory execution of the order,” shall mean fulfillment of all obligations arising out of and in connection with the purchase order. In case of default in satisfactory execution of the order the security deposit shall be forfeited. Amount of penalty and/or Liquidated Damages imposed (if any) will be recovered from Bill / Security Deposit. If the amount of Bill / Security Deposit is not sufficient, you shall be required to pay the balance amount to BPSCL. If you do not pay the balance amount, the same shall be deducted from any sum or sums which may be due or may become due to you from BPSCL on any account whatsoever.

In case of forfeiture of Security Deposit, you shall be required to reimburse the applicable GST to BPSCL.

3.0 TECHNO-COMMERCIAL TERMS & CONDITION:**3.1 Description of Material:**

Sl. No.	ITEM DESCRIPTION	QUANTITY
Supply of Goods		
1.A.	Cat. No. - 73181000500 Supply of 50 MVA, 138 kV/ 11.5 kV Power Transformer equipped with all necessary accessories along with required Insulating Mineral Oil.	01 Number
Supply of Service		
1.B.	Installation, Testing, Commissioning, Charging & Final observation without load & with full load up to 72 Hrs. of New 50 MVA, 138 kV/ 11.5 kV, Power Transformer, as per Scope of Work.	01 Number

3.2 Special Terms and Conditions:

1. Manufacturer's Test Certificates & Manufacturer's Guarantee Certificates for supplied items are to be provided along with the material.
2. Calibration Certificates issued by NABL accredited or Govt. approved lab for all the instruments related to transformers are to be provided along with the material.
3. The installation, testing & commissioning of the subject items will be deemed complete only when a job completion certificates will be issued by BPSCL, whose decision will be final in this regard.
4. The bidder shall submit guaranteed technical particulars (GTP) of the subject item, detailing all the standard technical parameters of the transformer along with the techno-commercial bid. Also, any technical clarification regarding the same is to be submitted by the bidder if so demanded by BPSCL.
5. For Installation, Testing & Commissioning etc., shut-down of existing system, will be done only as per convenience of BPSCL & the successful bidder shall have to plan its commissioning activities accordingly & complete the same within the time schedule mentioned herein. The supplier will be intimated for installation, testing, commissioning, charging & final observation at BPSCL site, two (02) months in advance.
6. All technical details, specifications, diagrams, certificates, instruction manuals dealing with operational and maintenance aspects or any other related documents are to be submitted in original along with three (03) numbers of copies to BPSCL after commissioning.
7. The supplier shall have to submit a list of five years O&M spares to be maintained for maintenance of transformer.
8. The successful bidder must arrange for training of operation and maintenance of transformer, at BPSCL. Full access to the technology inclusive of write-ups & technical literature of individual components as well as the items as a whole must be provided to BPSCL. These training lectures & associated literature, etc., should be provided at no extra cost.
9. **One to one replacement of the old 50 MVA, 138 kV / 11.5 kV Power Transformer by new 50 MVA, 138 kV / 11.5 kV Transformer:**

The supplier should design, manufacture, transport and supply the subject items. Also, installation, testing & commissioning of 50 MVA, 138 kV / 11.5 kV Power Transformer on the foundation of the old transformer at site are to be done by the bidder. Successful bidder has to ensure the new 50MVA, 138 kV / 11.5 kV, transformer is perfectly retrofitted in the place of the existing old 50MVA, 138 kV / 11.5 kV, transformer as one to one replacement regarding Vector group, Phase sequence, foundation matching, connection & fitting of Bus-bars and Bus-duct, Jumpers, ACSR Conductors, Existing Fire extinguishing system etc. are concerned. All the necessary measurements pertaining to existing transformer and accessories will have to be taken by the bidder himself. Accurate measurements and subsequent tailor-made replacement in the form of new 50 MVA transformer will be the sole responsibility of the supplier. For any technical or dimensional mismatch or any other trouble anywhere, the supplier will be held responsible and in such a case, the bidder will have to rectify the problems at their own cost. The successful bidder will have to supply all the accessories necessary to complete the subject items (like Breathers, Buchholz Relays, Oil Pump, Cooling Fans, Marshalling Box, WTI/OTI Meters & Probe, etc).

12. **Availability of old power transformer for taking measurements and design visualization of retrofitted new 50**

MVA Transformer:

- (a) The presently installed old 50 MVA power transformer will be made available for assessment and design visualization of new 50 MVA Transformer and taking all sorts of necessary measurements.
- (b) The supplier will have to develop all the relevant drawings and documents etc based on the above visualization and measurements and will have to get them approved by BPSCL before manufacturing & supplying the transformer.

13. **Design Criteria:**

- (a) Transformers and their accessories will be designed to facilitate their operation and ease in carrying out inspection, maintenance and repair activities pertaining to them.
- (b) All apparatus of the transformers will be strictly designed to ensure successful operation under different load, climatic, ambient and system conditions as stipulated in tender document.

14. **Quality of Materials:**

All materials used for manufacturing the transformers must be of the best quality and of the class which will be most suitable for working of the equipment under the specified conditions.

15. **Due regard to 'Safety' and 'Electricity' rules:**

The design of Transformers shall incorporate every reasonable precaution and provision for the safety of the working personnel who will be doing the operation and maintenance of equipment. Due regard shall be given to meet the requirements of Indian Electricity Rules also at the same time.

16. **Firmness of Price / Applicability of IEEMA PVC clause:**

Price variation of the price quoted by the bidder will be acceptable as per latest 'IEEMA PVC' Formula & base prices. No other price variation clause / formula will be accepted. If the bidder claims any other price variation clause / formula, the bid will summarily be rejected.

17. **Supply of Drawings and Documents:**

Following drawings and documents will have to be submitted by the supplier:-

- i. OGA
- ii. Table of the fittings
- iii. HV & HV-N Bushings
- iv. LV Bushing
- v. GA of M. Box
- vi. Wiring diagram of M. Box
- vii. R & D Plate
- viii. Rollers
- ix. Foundation Plan
- x. Constructional and engineering details
- xi. Operation and maintenance manual
- xii. Trouble shooting manual
- xiii. Reports of 'Tests' carried out at supplier's work in presence of the BPSCL engineer
- xiv. Reports of 'Type tests' carried out previously on a similar type and rating of Transformer
- xv. Drying curves of the ordered Transformers
- xvi. Reports of 'Tests' of sample of new oil which will be filled up in the New Transformer (as per IS: 335) for dispatching them to BPSCL.

18. **List of 'Tests' to be performed on ordered transformer at the supplier's works:**

Following tests shall be carried out on the ordered transformer at the manufacture's works in presence of Engineer in-charge / BPSCL or his representative:-

- i. Measurement of IR & PI of each winding, in turn, to all the other windings, core and frame or tank connected together and to earth shall be done by a 5 KV Megger and recorded.
- ii. Measuring of HV & LV windings resistance at all Tap positions.
- iii. Measuring of voltage ratio at all Tap positions.
- iv. Checking up voltage vector relationship (Vector Group).
- v. Checking of polarity (subtractive).
- vi. Measurement of magnetizing current and no load loss at 90%, 100%, 110% of rated voltage and rated frequency at normal tap no. 9.
- vii. Measurement of load loss and impedance voltage between HV/LV at 50 MVA base.

- viii. Magnetic balance test.
 - ix. Induced over voltage withstand test. Each HV line terminal 1U, 1V, 1W raised to twice the rated voltage at Tap no. 1 at 100 Hz for 60 Sec. and simultaneously LV terminals raised to twice the normal voltage.
 - x. Separate source voltage withstand test at 50Hz for 1 minute at tap no. 1.
 - xi. Oil leakage test of Transformer tank as per standard.
 - xii. Tan delta and Capacitance measurement test.
 - xiii. Temperature – rise test.
 - xiv. The insulation between core bolts, clamp plates and structural steel work etc should withstand 1 kV AC for 1 minute.
 - xv. All auxiliary wiring should withstand an insulation test of 1 kV AC for 1 minute.
 - xvi. WTI-CT ratio should be checked.
 - xvii. Calibration and working of oil and winding temperature indicators and their contacts (alarm & trip).
 - xviii. Operation of Buchholz relay and its contacts (alarm & trip).
 - xix. Operation of pressure relief valve and its contact (trip).
 - xx. Operation of oil level indicators in conservator.
19. Pre commissioning test will be performed by supplier at BPSCL site. If any mismatch found in the test result during pre-commissioning as compared with the test in supplier's workshop, same will be rectified by supplier.
20. **Packaging for transit and replenishment of the damaged parts during transportation and handling:**
The supplier will be required to do proper packing of the goods to prevent their damage or deterioration during the transit and up to their final destination.
In spite of the above precaution, if any damage or deterioration take place, the supplier will have to replenish it 100% on getting a report from the customer.
21. **Facilitating BPSCL for obtaining statutory clearances for charging of the new transformer:**
An application in the prescribed format along with copies of all the ‘Test-reports’ will have to be submitted to the Director, RIO, Kolkata for obtaining his statutory clearances for energizing the new transformer.
22. **Supervision of work:**
Supervision of work on site on daily basis shall have to be carried out by supplier & they will be fully responsible for any unsafe, indecent, illegal incidents caused by its employees.
23. **Facilities of Cranes:**
The Supplier will have to arrange its own heavy weight capacity crane for unloading, installation etc. BPSCL will provide only light weight capacity (maximum up to 10T) mobile crane and truck inside the BPSCL premises for the various purposes.

3.3 The Commercial Bid should confirm / indicate the following:

1.	Price	To confirm ‘Firm price for the duration of the Contract’ / Variable as per IEEMA.
2.	Delivery Term	FOR BPSCL Stores, B. S. City.
3.	Packing & Forwarding Charges	Extra/Inclusive <i>(Applicable amount to be mentioned in percentage or amount)</i>
4.	Freight Charges	Extra/Inclusive <i>(Applicable amount to be mentioned in percentage or amount)</i>
5.	Transit Insurance	To be arranged and borne by Supplier
6.	GST Registration	To indicate GST Registration Number
7.	GST	Extra- <i>Applicable rate to be mentioned</i> HSN/ SAC- <i>to be mentioned</i>
8.	Payment Term	A) <u>Supply of Goods</u> : (i) 80% payment including 100% of GST against GRN (after inspection at site). (ii) 15% payment will be released after successful Installation, testing, commissioning at BPSCL site. If front is not made available to the supplier, this amount will be released after eight (08) months from date of receipt of transformer at BPSCL store against submission of Bank Guarantee of equivalent amount valid up to successful installation, testing, commissioning duly certified by BPSCL. (iii) 5% payment will be released after completion of Guarantee Period OR against submission of Bank Guarantee of equivalent amount valid up to Guarantee Period.

		<p>B) Supply of Service:</p> <p>(i) 90% payment including 100% of GST will be released after successful Installation, testing, commissioning duly certified by BPSCL.</p> <p>(ii) 10% payment will be released after completion of Guarantee Period (after successful Installation, testing, commissioning of Transformer) OR against submission of BG of equivalent amount valid till Guarantee Period.</p>
9.	Delivery Period	<p>A) Supply of Goods:</p> <p>i) Drawings, data sheet, QAP etc. of the subject items shall be submitted within two (02) months from date of issue of purchase order for approval.</p> <p>ii) Materials shall be delivered at BPSCL store complete in all respect within ten (10) months from date of approval of drawings, data sheets etc.</p> <p>B) Service Part:</p> <p>i) Installation, testing, commissioning of the items shall be completed within eight (08) months from date of receipt of transformer at BPSCL store. However work has to be completed within one & half (1.5) months from date of commencement of work.</p> <p>Necessary equipment shutdown and front availability will be ensured by BPSCL within 6.5 months from the date of receipt of transformer at BPSCL Stores. The supplier will be allowed 1.5 months time for installation, testing & commissioning of the Transformer along with all accessories from the date on which front is made available by BPSCL.</p>
10.	Guarantee Clause	The guarantee period of the New Power transformer shall be at least thirty-six (36) months from the date of commissioning or forty-two (42) months from the delivery of the item, whichever is earlier. For any defects discovered during guarantee period, the defective item shall be repaired / replaced at no extra cost.
11.	Inspection	<p>a) Pre dispatch inspection and witnessing of 'Tests':</p> <p>a.1) Before supply, the items will be inspected by BPSCL at the works of the supplier (as per inspection call to be intimated by the supplier at least four (04) weeks in advance). BPSCL will bear to & fro travelling, fooding, lodging etc. of its representative. Inspection may be waived depending upon the plant situation and / or urgent requirement of the materials. Items are to be dispatched only after dispatch clearance (with or without inspection) is issued by BPSCL. Final inspection will be done at BPSCL store.</p> <p>i. All tests, as given in tender document shall be carried out on the ordered transformers at the supplier's works in presence of BPSCL's representative before dispatching the same to BPSCL stores.</p> <p>ii. All tests, as given in tender document shall be carried out on the same transformers in 100% assembled condition which will be supplied to BPSCL.</p> <p>iii. Inspection call shall be given by the supplier to the BPSCL after satisfactory completion of internal inspection and tests by them as per approved QAP.</p> <p>iv. Inspection by the purchaser does not relieve the supplier from the responsibility of quality assurance and quality control functions as expected to be performed by them.</p> <p>v. Any approval which the inspecting Engineer of BPSCL may have given in respect of the transformers inspected by him before dispatch, BPSCL shall not be bound to accept that transformer, should it on further testing at BPSCL site be found not to comply with the requirements of the contract.</p> <p>b) Final testing and inspection will be done at BPSCL stores after receipt of material.</p>
12.	Security Deposit	To confirm as per relevant Clause of NIT
13.	LD Clause	To confirm as per relevant Clause of NIT
14.	Risk Purchase Clause	To confirm as per relevant Clause of NIT
15.	Validity Period	To confirm as per relevant Clause of NIT

4.0 PRICE BID / RA FORMAT:**Special Instruction –**

1. *In the event of the L1 Bidder backing out prior to placement of order, L1 bidder shall be suspended for a period of one (01) year from the date of issue of suspension order*
2. *Breakup of quoted LC (**Landed Cost**) shall be submitted by the L1 bidder. In case of refusal of L1 bidder to submit price break up, L1 bidder shall be suspended for a period of one (01) year from the date of issue of suspension order.*
3. **Price Basis – Rs. per No. on Landed Cost (LC) basis excluding GST.**

Price Break Up Format		
Sl. No.		Amount per Number (Rs.)
A	SUPPLY OF GOODS	
A1.	Basic Price	
A2.	Packing & Forwarding	
A3.	Freight	
A4.	Transit Insurance	
A5.	Any Other charges	
	Sub Total of A (A1+A2+A3+A4+A5)	
B	Supply of Service (Installation, Testing, Commissioning, Charging etc.) :	
B1.	Basic Price	
	Sub Total of (B)	
	Landed Cost = Grand Total (Sub Total of A + Sub Total of B)	

Note: GST Extra

Scope of Work

A. Supply of Material:

1. Supply of 50 MVA, 138 kV/ 11.5 kV Power Transformer equipped with all necessary accessories along with required insulating mineral oil.

B. Supply of Service:

1. Shifting of New Transformer:
 - a. Unloading of the transformer at BPSCL site.
 - b. Shifting of new transformer to the foundation. (Dragging on rail track required up to 70 meter approx.)
 - c. Fitting of all necessary accessories.
 - d. Connection of 11.5 kV Bus jumpers.
 - e. Connection of 138 kV conductor.
 - f. Connection of all control wirings.
 - g. Connection of jumper to transformer neutral point.
 - h. Connection of earth strips to transformer body at two points.
 - i. Fitting of existing fire extinguishing system (NIFPS) in New Transformer.
2. Filling the transformer with new transformer oil as per IS.
3. Testing of Transformer at BPSCL site.
4. Commissioning of new transformer.
5. Load test and observation of the commissioned transformer for 72 Hrs.

ANNEXURE-II

“Technical Specifications of Existing 50 MVA, 138 kV / 11.5 kV Transformer”

Indian Standard	:	IS 2026 : 1962
KVA Rating	:	50000
Voltage (at no load & normal tap position)	:	HV: 138000 V LV: 11500 V
Current Rating	:	HV: 209 A LV: 2510 A
Type of Cooling	:	ONAN/ONAF/OFAF
Temperature rise	:	Oil: 45 deg. C Winding: 60 deg. C Ambient Temperature: 50 deg. C
Phases	:	HV: 3 LV: 3
Frequency	:	50 Hz
Connection Symbol	:	Y n d 11
Percentage impedance	:	15 % at normal tap position. HV: 650 KV _p Neutral : 76 KV RMS LV : 95 KV _p
Insulation level	:	45510 K.G.
Core & Winding	:	29840 K.G.
Oil	:	108590 K.G.
Total Weight	:	35320 litre
Oil quantity	:	
Tap Changer (HV side)	:	As per Table 1
	:	

Table 1:

TAP CHANGER POSITION	H.V. K.V.
1	151.8
2	149.8
3	147.8
4	145.9
5	143.9
6	141.9
7	140.0
8	138.0
9	136.0
10	134.0
11	132.1
12	130.1
13	128.1
14	126.2
15	124.2

Note: The above values are taken from existing transformer 1T (50 MVA, 138 kV / 11.5 kV) name plate Supplied by M/s Heavy Electricals (India) Limited, Bhopal but the actual values may vary within reasonable technical & statutory norms as per the design of the supplier.

**Format for Bid Securing Declaration
(In lieu of EMD)**

Date: _____

Tender Enquiry no.: _____

To
The GM In-charge (Material Management)
Bokaro Power Supply Company (P) Ltd.
Hall No. – M 01
Old Administrative Building
ISPAT Bhawan, Bokaro Steel City

I/We*, the undersigned, declare that:

I/We* understand that, according to your conditions, bids must be supported by a Bid-Securing Declaration in lieu of Earnest Money Deposit.

I / We* understand that if I/We* withdraw or modify my / our* Bids during the period of validity, or if I am / We are* awarded the Contract and I / We* fail to honour my /our* offer by way of either withdrawing my / our* bid within the bid validity period without assigning any valid reason for the same or refusing to submit Performance Security / Performance Guarantee as per relevant Clause of the tender enquiry or refusing to accept the price quoted by me / us* in Online Price Bid or Reverse Auction within the period of validity of the same or refusing to sign the Contract Agreement, I / We* will be suspended for a period of one year from being eligible to submit Bids for all future Contracts.

I / We* understand that this Bid Securing Declaration shall cease to be valid if I am / We are* not the successful Bidder and I am / We are* not awarded the Order against the tender enquiry.

Signed _____ in the capacity of

Name: _____

Duly authorized to sign the Bid for and on behalf of:

Dated on _____ day of _____, _____

Corporate Seal (where applicable)

[Note: In case of a Joint Venture, the Bid Securing Declaration must be in the name of all partners to the Joint Venture that submits the Bid.]

Self Declaration

I.....son/daughter of Shri Aged..... years
resident ofPS.....District.....State.....do hereby
declare that:

1. I am the authorized representative and signatory of M/s.....
(name of the firm/company).

2. All document(s) submitted/ information provided by M/s..... alongwith the
Bid Document submitted against Tender No.....
.....dated
for.....
..... (Name of work)
has/have been submitted under my knowledge and are authentic , genuine and true. No part of the document(s) /
information is false, forged or fabricated.

3. The above declaration in respect of genuineness of the documents/ information has been made having full
knowledge of provisions of bidding conditions which entitle the Owner/BPSCL to initiate action in the event of
such declaration turning out to be a false.

4. I undertake to produce all documents in original for verification as and when asked for the same by BPSCL.

(Name & Signature of Authorized person):.....
Designation:.....

(To be submitted on Supplier's Letter Head)

Format for Acceptance of General Terms & Conditions, Commercial Terms and all other Terms of the Reverse Auction

We _____ (Supplier Name)

with PAN _____ having registered office at _____

_____ (Address)

agree to all the Commercial, General & other Terms & Conditions listed in the

NIT No. _____

dated _____

for procurement of _____ (item) through Reverse Auction.

We confirm that we are in a position to supply material as per the specification given in NIT. We agree to participate in the Reverse Auction and abide by the rules.

We nominate an executive, whose details are given below, to put the bids on our behalf.

The details of the person authorized to bid on our behalf is as follows.

Name & Designation :

E-mail ID :

Contact phone nos. :

Address :

(Signature & Seal)

Place :

Date :

Format for submitting last quoted prices

(To be submitted on Company Letter Head of the Bidder)

(To be sent within 30 mins of conclusion of the Reverse Auction)

To,
mjunction services limited
1st Floor, Tata Centre
43, Jawaharlal Nehru Road
Kolkata – 700 071

Fax: 033 – 2288 3279

Ref: Reverse Auction forfor Bokaro Power Supply Co. (P) Ltd. held on

Reference above, we hereby confirm our Market wise last quoted prices in the Reverse Auction held on forfor Bokaro Power Supply Co. (P) Ltd., Bokaro Steel City.

Market No.	Last Quoted Price

We also confirm that we will submit item wise price break-up, within two working days from the date of Reverse Auction.

Signature :

Name :

Designation :

Date :