

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-176/NIT-1110/838
Dated 23.03.2022**



TENDER DOCUMENT

**SUBJECT: PROCUREMENT OF ADMIRALTY BRASS TUBES & CUPRO
NICKEL TUBES.**

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

NOTICE INVITING TENDER

NIT No.: BPSCL/MM/21-22/PUR-176/NIT-1110/838

Date: 23.03.2022

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	Procurement of Admiralty Brass Tubes & Cupro Nickel Tubes
Earnest Money (in Indian Rs.)	Rs. 1,00,000.00 (Rupees One Lakh) Only OR Document for Exemption as per clause (ii) of General Terms & conditions.
Last date & time for submission of tender	22.04.2022 up to 12: 00 Hours
Bid Opening date & time	22.04.2022 at 12:15 PM

Qualifying Requirements: -

- The bidder should have minimum average annual turnover (MAT) of **Rs. 56.34 Lakhs** 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 must have valid ISO: 9001 certification as on the date of bid opening.
- The bidder shall have requisite experience of manufacturing and supplying of **similar items*** in India to any PSU / Government / Semi Government Organization or joint Venture thereof / Company registered under Companies Act in India.
***Similar item means: "Admiralty Brass / Cupro Nickel Tubes for use in Condenser".**
- The bidder shall have infrastructural facilities of carrying out at least one core activity like **manufacturing / Testing** required for the item under procurement.
- The bidder is required to submit self-attested photocopies of documents (Orders, completion certificate) in support of their eligibility and experience. In addition, bidder shall submit an affidavit in enclosed format (Annexure-II) declaring that the documents submitted by them are genuine.
- The bidder shall furnish latest **IT Returns & GSTIN**. The bidder shall also submit acceptance to Terms & Conditions of Reverse Auction in the format attached at **Annexure – III**.

General Terms & Conditions:

- Offer shall be accompanied with Earnest Money Deposit (EMD) in the form of Demand Draft / Pay Orders / Bankers Cheque Payable at Bokaro Steel City / Bank Guarantee having validity of, *one (01) year*, from any Nationalized Bank / Scheduled Bank except Co-operative Bank drawn in favor of **Bokaro Power Supply Company (P) Ltd.** as per format available at our website: www.bpscl.com. Earnest Money can also be deposited online through RTGS / NEFT / SWIFT / TT Remittance in our account, details of which are given below. The proof of such transfer shall be submitted with the offer in the envelope titled " Earnest Money Deposit".

Account Details:

Bank Name	:	State Bank of India
Account Number	:	35665021458
IFSC Number	:	SBIN0004231
Branch Name	:	SME Branch, Sector - 4, City Centre, Bokaro Steel City, Jharkhand - 827004.

In case of forfeiture of EMD by BPSCL the bidder is required to reimburse the applicable GST to BPSCL.

- ii) However, 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 paying Earnest Money will be granted only on submission of valid copy of certificate having a valid Entrepreneurs Memorandum (EM) number / Udyog Adhaar Memorandum / UDYAM Registration certificate (whichever applicable). SSI/NSIC certificate holders should also submit Entrepreneurs Memorandum / Udyog Adhaar Memorandum / UDYAM Registration certificate (whichever applicable). However unit claiming exemption is required to submit copy of registration certificate indicating clearly the item category for which they are registered.
- iii) **Offers not accompanied with Earnest Money Deposit (EMD) (as per clause i) or documents for exemption (as per clause ii) will be treated as INVALID.**
- iv) If you withdraw your bid after opening of bids without giving any satisfactory and acceptable explanation thereof, you shall be disqualified from participating in any tender of the BPSCL for a minimum period of one (01) year and your Earnest Money will be forfeited.
- v) **Purchase Preference:** BPSCL reserves the right to exercise Purchase Preference in respect of MSEs based on the extant guidelines issued by Government of India vide Public Procurement Policy for Micro & Small Enterprises (MSEs) order 2012 & subsequent amendments.
- v) You should quote your firm rates and no negotiations will be held except with the lowest bidder, if required.
- vi) **Handling of Earnest Money:**
- Earnest Money will be refunded to the un-successful bidder after determination of L-1 bidder and no interest will be paid upon the same. **You are requested to submit your bank details for the return of EMD.**
 - The amount of Earnest money may be adjusted against Security Deposit in case of successful bidder.
- vii) Consortium bids will not be considered unless the provision for consortium is specifically mentioned in Tender Document.
- viii) **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 the techno-commercially accepted bidders to submit decrement in percentage (%) on their online price submitted at the time of techno-commercial bid. Online price bid along with % decrement shall be considered together in case online price bid is opened.
- ix) Either the representative on behalf of the Manufacturer or the Manufacturer directly be permitted to bid in a tender but not both. If authorized representative of manufacturer quote along with manufacturer, only the offer of Manufacturer will be considered as valid.
- x) One agent cannot represent two Manufacturer or quote on their behalf in a particular tender.
- xi) **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)
Chief General Manager (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 EMD / Proof of online submission of EMD / Documents for exemption of EMD.
- 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:

Chief General Manager (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 **Four (04) 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, EMD will be forfeited and 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:** In the event of supply not being effected within the contractual delivery schedule given in the order, liquidated damages @ ½ % of the value of delayed materials for each week of delay and part thereof, subject to a maximum of 05% of the total order value shall be recovered from you. The deduction of such damages shall not relieve you from the contractual obligations to complete the supply as stipulated in the Contract.
- 2.05 **Risk Purchase:** If you fail to deliver the material either in full or in part, within the contractual 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 Lakh	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.

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
1.	Cat. no.-16700503062 Solid drawn Admiralty Brass Tube Size: OD 24 x 1.0mm thick x 10100mm length Material: CuZn29Sn1As (as per IS: 1545 – 1994: Reaffirmed:2006) Other Technical Specification as mentioned below.	2000 Nos.
2.	Cat. no.-16700503063 Solid drawn admiralty Brass Tube Size: OD 24 x 1.50mm thick x 10100mm length Material: CuZn29Sn1As (as per IS: 1545 – 1994: Reaffirmed:2006) Other Technical Specification as mentioned below.	300 Nos.
3.	Cat. no.-08504335001 Material : Solid Drawn 90:10 Cupro Nickel Tubes Size : OD 22mm x Thickness 1mm x Length 7630mm Material: CuNi10Fe1 (as per IS: 1545 – 1994: Reaffirmed:2006) Other Technical Specification as mentioned below	2000 Nos.

3.2 Detailed Technical Specification

- i. **Application:-** for use in condenser of steam turbine.
- ii. **Condition of delivery:** The tubes shall be supplied in bright annealed condition and shall be cut, cleaned and debarred. The tubes shall be **annealed** throughout their lengths and should be suitable for expansion and bell mounting at both ends. The tubes shall be supplied in suitable boxes and both ends should be shielded by suitable plastic plugs.
- iii. **Dimensions & tolerances:** Tubes to be supplied as per the following dimensional specification :
Tolerance on OD = (\pm) 0.1mm.
Tolerance on wall thickness = (\pm) 10% of specification wall thickness.
Tolerance on length = +5.0mm. (Minus tolerance not permissible)
- iv. **Chemical Composition :** as per IS 1545 :1994
- v. **Straightness :-** For acceptable straightness of the tubes the permissible maximum deflection shall not exceed 2mm/meter
- vi. **Surface finish:-** The tubes shall be clean and smooth and should have a bright finish without any patches on both inside and outside surfaces. Local accumulation of carbonized drawing compound or other reaction compound is not permitted.
- vii. **Manufacture:** - The tubes shall be solid drawn, annealed and in no case shall be redrawn from used tubes. The end cutting operation shall be carried out only after eddy current testing.
- viii. **Freedom from defects:** - The tubes shall be round, straight, smooth, clean, uniform in diameter and free from cracks seams, slivers, scales, deleterious films in the bore and other harmful defects. The ends shall be cut clean and square with the axis of the tube.
- ix. **Mechanical Properties:-** The tubes shall conform to the requirements of mechanical properties.
 - a) **Hardness test:** - Hardness test shall be carried out in accordance with IS 1501 (Part-1):1984.
 - b) **Tensile test:** - A piece of tube selected for test, suitably plugged or flattened sufficiently for gripping or a strip cut from a tube, shall be tested in accordance with IS 2655:1964.
 - c) **Flattening test:** - The flattening test shall be carried out as per IS 2328:1983 of tubes in TA and O condition. The tubes in HB and HD condition shall be annealed before testing.
The test piece shall not crack when close flattened until the interior surfaces of the tube meet.
 - d) **Drifting Expanding Test:** -The drift expanding test shall be carried out as per IS 2335:1985 on tubes in TA and O conditions. The tubes in HB and HD conditions shall be annealed before testing. The tube should be capable of undergoing drifting by means of a taper drift having an included angle of 45⁰, without showing either crack or flaw

until the outside diameter of the expanded end measures at least 25 percent more than the original diameter of the tube.

- x. **Non- Destructive Testing** : All tubes shall meet the requirements of eddy current and hydrostatic/pneumatic test.
- a) **Eddy current Test** : Each tube shall be subjected to the eddy-current test in accordance with IS 11612: 1984. Tubes shall be tested in HD condition prior to the final annealing or heat treatment unless otherwise agreed upon by the supplier and the purchaser. The hole size shall be as agreed in between the supplier and the purchaser
 - b) **Hydrostatic test** – In addition to eddy current test, each tube shall be subjected to an internal hydrostatic test pressure of 7 MPa or the value given by the following formula, whichever is less, unless otherwise agreed to between the purchaser and the supplier. When subjected to the test for a minimum period of 5 seconds, the tube shall not show any sign of weeping or leaking.
- xi. **Microscopic Examination (For TA and O Conditions only)** : Samples in longitudinal direction of tubes selected for the test shall be subjected to microscopic examination in accordance with IS 4748 : 1988 at a magnification of 75 x and shall show uniform and complete re-crystallization with an average grain size of 0.010 to 0-0.50 mm. Maximum grain size shall not exceed 0.50 mm.
- xii. **Mercurous nitrate test** : To be carried at as per IS 2305:1988 and shall not show any sign of cracking.

xiii. Chemical Composition for Admiralty Brass Tubes:-

The analysis of the material shall be as follows:-

Sl. No.	Element	Percent Min.	Percent Max.
1.	Cu	70.0	73.0
2.	Sn	0.9	1.2
3.	Pb		0.07
4.	Fe		0.06
5.	As	0.02	0.06
6.	Total impurities		0.30
7.	Zn	Remainder	

➤ The Supplier shall confirm that the material is under the stipulated limit.

xiv. Chemical Composition for Cupro Nickel Tubes:-

The analysis of the material shall be as follows:-

Sl. No.	Element	Percent Min.	Percent Max.
1.	Nickel	9.0	11.00
2.	Iron	1.0	1.80
3.	Manganese	-	1.0
4.	Zinc	-	0.50
	i. Lead	-	0.02
	ii. Sulphur	-	0.02
	iii. Carbon	-	0.05
	iv. Phosphorous	-	0.02
5.	Copper	(Remainder)	

➤ The Supplier shall confirm that the material is under the stipulated limit.

3.2 Special Terms and Conditions:

- a) Guarantee Certificate, Test Certificates & Packing list should be submitted along with the materials.
- b) Quality Assurance Plan: The bidder has to agree to follow the detailed QAP as given in tender document
- c) The manufacturer/supplier should provide test certificate for each consignment giving information like grade, lot number, condition, size, thickness and corresponding chemical composition and physical properties.
- d) Test Certificates:-The bidder has to submit test certificate for the following :
 - i. Results Of Chemical Analysis
 - ii. Mechanical Properties
 - iii. Eddy Current Test
 - iv. Mercurous Nitrate Cracking Test

v. Microscopic Examination.

- e) Packing and Marking: Material shall be packed in suitable wooden box and details pasted / written clearly for the consignment.
- f) Rejection and Replacement:- Material failing to conform to specification will be rejected. The supplier shall replace the rejected material at no extra cost.

3.4 The Commercial Bid should Confirm/indicate the following:

1.	Price	To confirm 'Firm price for the duration of the Contract'.
2.	Delivery Term	FOR BPSCL Stores, B. S. City.
3.	Packing & Forwarding Charges	Extra/Inclusive (Applicable amount to be mentioned in percentage or amount)
4.	Freight Charges	Extra/Inclusive (Applicable amount to be mentioned in percentage or amount)
5.	Transit Insurance	To be arranged and borne by Supplier
6.	GST Registration	To indicate GST Registration Number
7.	GST	Extra- Applicable rate to be mentioned HSN/ SAC- to be mentioned
8.	Payment Term	100% against GRN
9.	Delivery Period	Within four (04) months from the date of issue of purchase order.
10.	Guarantee Clause	A guarantee covering manufacturing defects should be provided for trouble-free operation of the motor & their spares for a period of twelve (12) months (or more) from date of commissioning or eighteen (18) months (or more) from date of supply whichever is earlier. In case of any manufacturing defects discovered within the guarantee period of normal operation, the same are to be rectified or replaced by the bidder at no extra cost.
11.	Inspection	a) Third party inspection as per attached QAP, shall be arranged by supplier to be done at manufacturer's works by third party inspection agency (M/s Lloyds Register Asia/ M/s TUV India Pvt. Ltd./M/s Bureau Veritas Industrial Services India Pvt. Ltd.) in final stage and cost of inspection will be borne by the supplier. b) Final inspection will be done at BPSCL stores after receipt of material. Sample of tubes will also be tested for ensuring chemical composition. If it lies outside permissible range, the whole lot will be rejected.
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, in addition to forfeiture of EMD, the 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 bidder. In case of refusal of bidder to submit price break up, EMD will be forfeited and the 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 LC basis excluding GST (For all the items Individually)**

Price Break Up		
Sl. No.		Rate per No. (Rs.)
1.	Basic Price	
2.	Packing & Forwarding	
3.	Freight	
4.	Transit Insurance	
5.	Any other tax or charges	
LANDED COST (1+2+3+4+5)		

Note: GST Extra

		QUALITY ASSURANCE PLAN					
Product : Seamless Tubes for Condenser							
Name of Customer		Bokaro Power Supply Company (P) Limited			Date		
Specification		As per Technical Specification given in P.O.		QAP no.	BPSCL/TUR/QAP-01		
Alloy		As per Technical Specification given in P.O.		P.O.No.			
Temper		Temper Annealed Condition		P.O.Date			
Sl. No.1		24mm OD x 1.0 mm Avg. WT x 10100mm L		No. of Pcs			
Cat No.		16700503062					
Sl. No.2		24mm OD x 1.5 mm Avg. WT x 10100mm L		No. of Pcs			
Cat No.		16700503063					
Sl. No.3		OD 22mm x thickness 1mm x length 7630mm					
Cat No.		08504335001					
Sl. No.	Process	Characteristics to be Checked	Measuring Instrument	Quantum to be checked	Format of Record	Scope of TPI agency	Acceptance criteria
1.	Melting & Casting	Charge Quantity	Weighing Scale	Random Sampling	-	R	As per IS 1545:1994
		Temperature	Thermo Couple	100%	Log Book		
		Chemical Composition	Spectro Analyzer	100%	Log Book		
		Appearance	Visual	100%	Log Book		
2.	Billet Cutting	Appearance	Visual	100%	Log Book	R	As per standard
3.	Extrusion	Temperature	Pyrometer	Random Sampling	Log Book	R	As per standard
		Dimensions	Micro Meter	Random Sampling	Log Book		
4.	Shell Inspection	Dimensions	Micro Meter	Random Sampling	Log Book	R	As per standard
		Appearance	Visual	100%	Log Book		
5.	Pilgering	Dimensions	Micro Meter	Random Sampling	Log Book	R	As per standard
		Appearance	Visual	100%	Log Book		
6.	Drawing	Dimensions	Micro Meter	Random Sampling	Log Book	R	As per standard
		Surface	Visual	100%	Log Book		
7.	Straightening	Dimensions	Micro Meter	Random Sampling	Log Book	R	As per standard
		Straightness	Visual & Measurement	Random Sampling	Log Book		
8.	Eddy Current Test (Full Length) (IS 11612 : 1984)	Surface & Internal Defects	Eddy Current Testing Machine	100%	Log Book	R	As per IS 11612:1984
9.	Final Cutting	Length	Measuring Tape	Lot Wise	Log Book	R	As given in Annexure-II
10.	Hydro Test (At 7 Mpa)	Leakage Defect	Pressure Gauge	100%	Log Book	R	As given in Annexure-II
11.	Annealing	Temperature	Thermo Couple	Lot Wise	Log Book	R	As given in Annexure-II
		Speed	Speed Controller	Lot Wise	Log Book		
12.	Eddy Current Test (IS 11612 : 1984)	Surface & Internal Defects	Eddy Current Testing Machine	100%	Log Book	10% W	As per IS 11612:1984
Sl. No.	Process	Characteristics to be Checked	Measuring Instrument	Quantum to be checked	Format of Record	Scope of TPI agency	Acceptance criteria

13.	Pre-Inspection	Dimension & Length	Micrometer	100%	Log Book	R	As per standard
			Measuring Tape	100%	Log Book		
		Surface	Visual	100%	Log Book		
14.	Hydrostatic Test (at 7 Mpa)	Leakage Defect	Pressure Gauge	100%	Log Book	10% W	As given in Annexure-II
15.	Final Inspection	Other Diameter, Wall Thickness & Length	Micrometer & Measuring Tape	100%	Log Book	10% W	As given in Annexure-II
				100%	Log Book		
		Surface	Visual	100%	Log Book		
Tolerances (As Per Technical Specification)							
Tolerance on OD = (\pm) 0.10mm Tolerance on Wall Thickness = (\pm) 10% Tolerance on Length = (+) 5.0mm (-) 0.0mm							
16	Chemical Analysis of Final Product	Chemical Comp	Spectro Analyzer	As per technical specification	Log Book	W	As per IS 1545:1994
17	Mechanical Properties Test	Microscopic Examination at 75 X (Avg. Grain Size) (Range 0.010-0.50)	Microscope	As per technical specification	Test Report	W	As given in Annexure-II
		Drifting Test (45°/30%)	UTM	As per technical specification	Test Report	W	As given in Annexure-II
		Tensile Strength (295 Mpa Min.)	UTM	As per technical specification	Test Report	W	As given in Annexure-II
		% Elongation G.L.= (5.65 \sqrt{SO}) 35% Min.	UTM	As per technical specification	Test Report	W	As given in Annexure-II

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
	<i>To be submitted by LI bidder after RA</i>

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 :