

# **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/23-24/PUR-122/NIT-1341**

**Dated 29.08.2023**



## **TENDER DOCUMENT**

**SUBJECT: Supply, Erection, Testing & Commissioning of Nitrogen Injection Fire Protection System for Three (03) Nos. of Transformers.**

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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/23-24/PUR-122/NIT-1341

Date: 29.08.2023

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 under procurement	Supply, Erection, Testing & Commissioning of Nitrogen Injection Fire Protection System for Three (03) Nos. of Transformers.
Earnest Money (in Indian Rs.)	<b>Rs. 15,000.00</b> (Rupees Fifteen Thousand Only) OR <b>Document for Exemption</b> as per clause (ii) of General Terms & conditions.
Last date & time for submission of tender	<b>03.10.2023</b> up to <b>12: 00 Hours</b>
Bid Opening date & time	<b>03.10.2023</b> at <b>12:15 PM</b>

### Qualifying Requirements: -

1. The bidder should have minimum average annual turnover (MAT) of **Rs. 11.29 Lakhs** only.
2. 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.
3. 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 31<sup>st</sup> March of the previous financial year duly certified by CA.
4. **Technical capability:**  
The bidder shall have requisite experience of manufacturing, supplying, installing, testing and commissioning of Nitrogen Injection Fire Protection System for Power Transformers having capacity of 12.5 MVA or more in India to any Public Sector Undertaking / Government / Semi Government Organization or joint venture thereof / Company registered under Companies Act.
5. The bidder has to submit a copy of ISO 9001-2015 certificate for manufacturing of NIFPS, valid as on bid opening date.
6. The bidder is required to submit self-attested photocopies of documents (Purchase Orders, GRN / Delivery Challan / Completion certificate etc.) in support of their eligibility and experience. In addition, bidder shall submit a self declaration in enclosed format at **Annexure – IV**.
7. 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) 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](http://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.*

TENDER NOTICE NO. BPSCL/MM/23-24/PUR-122/NIT-1341

Dated 29.08.2023

- ii) Condition for claiming exemption from submission of EMD:
- Micro & Small Enterprises (MSEs) / PSU / Government 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. However, UDYAM Registration Certificates having Services (Trading) as major activity will not be considered as a valid document for claiming exemption from submission of EMD.
  - 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.
- 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 unsuccessful 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](http://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](http://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)  
CGM (MM)  
Tel : 8986874119

Email: [purchase@bpscl.com](mailto:purchase@bpscl.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:**

- i) Validity of the offer shall be at least 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 Submission End Date.
- ii) In case prices are finalized through Reverse Auction / Price Negotiation, the validity of the final quoted price shall be two (02) months from the date of discovery of the final L-1 price, either through Reverse Auction or through Price Negotiation, as the case may be or till the validity of the techno-commercial bid, whichever is later.

#### **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.

**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 The shortfall information / documents (if required) shall be sought only in case of historical documents which pre-existed at the time of the tender opening and which have not undergone change since then.

**Explanation:** For example, if the Permanent Account Number, registration with Sales Tax / VAT, GSTN number, etc. has / have been asked to be submitted and the bidder has not provided them, these documents shall be asked for.

2.03 So far as submission of documents is concerned with regard to qualification criteria, after submission of the tender, only related shortfall documents shall be asked for and considered.

**Explanation:** For example, if the bidder has submitted a supply order / contract without its completion / performance certificate, the certificate shall be asked for and considered. However, no new supply order / contract shall be asked for.

2.04 **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

2.05 **Delivery:** Timely delivery is the essence of the contract & must be completed as per the dates specified therein.

2.06 **Liquidated Damages:**

1. **For supply of Goods:** In the event of supply not being effected within the contractual delivery schedule given in the order, for the reasons attributable to you, excluding the time taken by BPSCL in approval of the drawings submitted by you (if any), 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 (Goods) 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. **For supply of Service:** In the event of completion of service not being effected within the contractual time schedule given in the order, for the reasons attributable to you, liquidated damages @ ½ % of the value of delayed service part for each week of delay and part thereof, subject to a maximum of 05% of the total order value (Services) shall be recovered from you. The deduction of such damages shall not relieve you from the contractual obligations to complete the job as stipulated in the Contract.

2.07 **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/ services for which contractual period has expired.

2.08 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.
- 2.09 **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.
- 2.10 **Paying authority – In-charge (F&A), BPSCL.** Bill in triplicate duly receipted on the revenue stamp with cancelled cheque / Bank Mandate and 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.
- 2.11 **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.
- 2.12 **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](http://www.bpscl.com).
- 2.13 **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. 20 Lakh	10% of Purchase order value.
ii.	Over Rs. 20 Lakh up to 100 Lakhs	05% of Purchase order value subject to a minimum of Rs.2,50,000.00.

The Security Deposit shall be in the form of **Bank draft / Bankers Cheque / Bank Guarantee** (as per BPSCL format available at [bpscl.com](http://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:**

<b>Sl. No.</b>	<b>ITEM DESCRIPTION</b>	<b>QUANTITY</b>
<b>A</b>	<b>Supply of Goods</b>	
A.1.	Cat. No. <b>73181000561</b> Nitrogen Injection Fire Protection System consisting of FE cubicle, control box, signal box, transformer conservator isolation valve and oil drain pipe for 50 MVA, 138/11.5, 22000 Ltr. Transformers As per detail technical specification of transformers (Annexure - I) & technical specification of NIFPS (Annexure – II).	01 Set
A.2.	Cat. No. <b>73181000566</b> Nitrogen Injection Fire Protection System consisting of FE cubicle, control box, signal box, transformer conservator isolation valve and oil drain pipe for 12.5 MVA, 138/6.9, 12000 Ltr. Transformers. As per detail technical specification of transformers (Annexure - I) & technical specification of NIFPS (Annexure – II).	01 Set
A.3.	Cat. No. <b>73181000567</b> Nitrogen Injection Fire Protection System consisting of FE cubicle, control box, signal box, transformer conservator isolation valve and oil drain pipe for 12.5 MVA, 11.5/6.9, 7400 Ltr. Transformers As per detail technical specification of transformers (Annexure - I) & technical specification of NIFPS (Annexure – II).	01 Set
A.4.	Cat. No. <b>73181000564</b> Electrical Resistance Welded (ERW) pipes with support & fitting etc., as per standard norms for connection between transformers & FE cubicle, as per requirement.	03 Sets
A.5.	Cat. No. <b>73181000565</b> Electrical resistance welded (ERW) GI pipes & fittings as per standard norms for oil connection between FE cubicle and oil pit, as per requirement.	03 Sets
A.6.	CAT. NO. <b>73181000562</b> FRLS Armored Cable, Size: 12C X 1.5 sq. mm.	1500 Mtrs.
A.7.	CAT. NO. <b>73181000563</b> FRLS Armored Cable, Size: 4C X 1.5 sq. mm.	1500 Mtrs.
<b>B</b>	<b>Supply of Service</b>	
B.1.	Dismantling & removal of old high velocity water spray (HVWS).	03 Nos.
B.2.	Erection, Testing, Commissioning including all Civil, Structural work, Electrical, Mechanical, Instrumentation, etc., jobs for 03 nos. Nitrogen Injection Fire Protection systems as per detail technical specification of transformers (Annexure - IV), Tech. Specifications of NIFPS (Annexure – V) and Special terms & conditions (Annexure – II).	03 Nos.

**3.2 Special Terms and Conditions:**

- Due to proper compatibility of various components, all the supply - items shall be supplied from a single party, who shall also be responsible for installation, testing & commissioning of the systems. The offer of every bidder shall be considered in totality as a complete package of all items together with installation, testing & commissioning of the same.
- The successful bidder shall have to manufacture, supply & commission the Nitrogen Injection Fire Protection system as a complete package.
- Test & Guarantee Certificates are to be provided by the successful bidder.
- All statutory licenses & requirements of all items (like license for gas filling & storing in pressurized N<sub>2</sub> Gas Cylinders), are to be arranged & relevant certificates to be submitted in original by the successful bidder.
- Any unforeseen problem(s) which may arise while installing, testing & commissioning the systems, is (are) to be solved by the successful bidder at his own cost.

- F) Commissioning of the systems is to be done by the successful bidder at the site within the existing space & other restrictions imposed by the actual conditions.
- g) The installation, testing & commissioning of the subject systems will be deemed complete only when a job completion certificate will be issued by BPSCL.
- h) All the statutory & safety rules are to be strictly followed by the successful bidder and by the personnel deployed by him during the installation, testing and commissioning of the systems. All the resources including manpower, tools & tackles, etc. will have to be provided by the successful bidder.
- i) The successful bidder will be solely responsible for any unsafe, illegal, unworthy, or, untoward incident which may occur during the whole job.
- j) BPSCL will only provide space, LT Power supply & illumination.
- k) All technical details, specifications, diagrams, certificates or any other related documents are to be submitted in original along with sufficient numbers of copies to the BPSCL for approval, and handed over later after commissioning.
- l) The successful bidder must arrange for training of operation and maintenance of NIFPS, at the works / training center of the manufacturer, for at least two (02) Engineers of BPSCL, other than site training during commissioning. Full access to the technology inclusive of write-ups & technical literature of individual components as well as the items as a whole must be issued to the trainee engineers. This training lectures & associated literature, etc., should be provided free of cost.

**3.3** 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	Inclusive
4.	Freight Charges	Inclusive
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	<p><b>1. Supply of Goods :-</b></p> <p>a) 80% of order value for goods against GRN after submission of Bank Guarantee for equivalent amount. <i>Bank guarantee will be released after successful installation, testing, commissioning of NIFPS at site. If party is unable to submit Bank Guarantee then the 80% amount will be released after successful installation, testing, commissioning of NIFPS.</i></p> <p>b) 10% of order value for goods will be released after successful installation, testing &amp; commissioning at site.</p> <p>c) Balance 10% of order value for goods will be kept as retention money and will be released after completion of guarantee period.</p> <p><b>2. Supply of Services :-</b></p> <p>a) 90% of order value for services will be paid after successful Installation, testing, commissioning of NIFPS.</p> <p>b) Balance 10% will be kept as retention money and will be released after completion of guarantee period.</p>
9.	Delivery Period	<p>a) Successful bidder has to submit GA drawings, Technical Data Sheets, QAP, etc. of NIFPS within two (02) months from the date of issue of Purchase Order for approval of BPSCL.</p> <p>b) Delivery of the NIFPS shall be within eight (08) months from the date of issuance of Purchase Order excluding the time taken by BPSCL in approval of drawing &amp; documents.</p> <p>c) Installation, Testing &amp; Commissioning etc. of the systems shall be done within twelve (12) months from the date of delivery of material.</p>

10.	Guarantee Clause	<p>i. The successful bidder shall give guarantee for performance of individual equipment for a period of 12 months from date of commissioning.</p> <p>ii. During guarantee period, elimination of defects in design, manufacture, material quality, workmanship, erection and replacement of defective parts shall be done free of cost and to the satisfaction of the purchaser. Cost of dismantling, transport, re-erection, if any, during elimination of the defects/replacement of defective items shall be borne by the successful bidder.</p>
11.	Inspection	<p>1. Before supply, the items will be inspected by the Representative of BPSCL at the works of the successful bidder as per inspection call (inspection call to be intimated by the bidder at least four (04) weeks in advance). Items will be dispatched only after the dispatch clearance (with or without inspection) duly given by Representative of BPSCL.</p> <p>2. Final Inspection: Acceptance of material is subject to inspection. Final Inspection will be done at BPSCL stores after receipt of material.</p> <p>If any material supplied is rejected in inspection, BPSCL will inform about the same to the supplier. After such intimation of rejection by BPSCL, the Supplier shall be liable to remove / lift back such rejected / damaged materials within 30 days without any extra charge / cost to BPSCL, failing which, BPSCL shall reserve the right to dispose off the material, as it may deem fit, without any financial repercussions and BPSCL shall stand absolved of all responsibilities towards the 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, EMD will be forfeited and 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, EMD will be forfeited and L1 bidder shall be suspended for a period of one (01) year from the date of issue of suspension order.
3. **Price Basis – Rs. for complete lot of Supply of Goods and Services on LC basis excluding GST.**

Sl. No.	Job description	Rate for complete LOT (Rs.)
1.	Supply, Erection, Testing & Commissioning of Nitrogen Injection Fire Protection System for Three (03) Nos. of Transformers.	
<b>LANDED COST</b>		

Price Break Up Format of LANDED COST				
Sl. No.	Price Component	Quantity	Rate per Unit (Rs)	Amount (Rs.)
<b>A</b>	<b>SUPPLY OF GOODS</b>			
A.1	Cat. No. <b>73181000561</b> Nitrogen Injection Fire Protection System consisting of FE cubicle, control box, signal box, transformer conservator isolation valve and oil drain pipe for 50 MVA, 138/11.5, 22000 ltr. transformers, as per detail technical specification of transformers (Annexure - I) & technical specification of NIFPS (Annexure – II).	01 Set		
A.2	Cat. No. <b>73181000566</b> Nitrogen Injection Fire Protection System consisting of FE cubicle, control box, signal box, transformer conservator isolation valve and oil drain pipe for 12.5 MVA, 138/6.9, 12000 ltr. transformers, as per detail technical specification of transformers (Annexure - I) & technical specification of NIFPS (Annexure – II).	01 Set		
A.3	Cat. No. <b>73181000567</b> Nitrogen Injection Fire Protection System consisting of FE cubicle, control box, signal box, transformer conservator isolation valve and oil drain pipe for 12.5 MVA, 11.5/6.9, 7400 ltr. transformers, as per detail technical specification of transformers (Annexure - I) & technical specification of NIFPS (Annexure – II).	01 Set		
A.4	Cat. No. <b>73181000564</b> Electrical Resistance Welded (ERW) pipes with support & fitting etc., as per standard norms for connection between transformers & FE cubicle, as per requirement.	03 Sets		
A.5	Cat. No. <b>73181000565</b> Electrical resistance welded (ERW) GI pipes & fittings as per standard norms for oil connection between FE cubicle and oil pit, as per requirement.	03 Sets		
A.6	CAT. NO. <b>73181000562</b> FRLS Armored Cable, Size: 12C X 1.5 sq. mm.	1500 Mtrs.		
A.7	CAT. NO. <b>73181000563</b>	1500 Mtrs.		

	FRLS Armored Cable, Size: 4C X 1.5 sq. mm.			
<b>Basic Amount for supply of Goods (1)</b>				
2.	Packing & Forwarding			
3.	Freight			
4.	Transit Insurance			
5.	Any Other charges			
<b>Sub-Total (A)= (1+2+3+4+5)</b>				
<b>B. Supply of Services</b>				
B.1.	Dismantling & removal of old high velocity water spray (HVWS).	03 Nos.		
B.2.	Erection, testing, commissioning including all civil, structural work, electrical, mechanical, instrumentation, etc., jobs for 03 nos. Nitrogen Injection Fire Protection systems as per detail technical specification of transformers (Annexure - I), Tech. Specifications of NIFPS (Annexure – II) and Special terms & conditions.	03 Nos.		
<b>Sub Total (B)= (B.1. + B.2.)</b>				
<b>Landed Cost = Grand Total (A + B)</b>				

**Note: GST Extra**

**Specification of Transformers**

<b>SL. No.</b>	<b>Name</b>	<b>Capacity (MVA)</b>	<b>Voltage Ratio (KV)</b>	<b>Total Quantity of Oil (Litres)</b>
1.	GT#9	50	138/11.5	22000
2.	ST#9	12.5	138/6.9`	12000
3.	UAT#9	12.5	11.5/6.9	7400

**Note:** The Oil quantity given above is in the presently installed transformer may change slightly if the transformer replaced by another transformer having similar capacity and voltage ratio.

**Technical Specification and Principles of NIFPS Operation**

1. Automatic NIFPS shall be provided for firefighting of 03 nos. of transformers (Technical Specification of Transformers attach in Annexure - I) installed at Transformer Yard of BPSCL. This system extinguishes fire of oil filled transformers by injection of Nitrogen. The principles employed in the system are - Drain and Stir. The result of applying the principle is to extinguish the fire quickly. The system consists of automatic top oil drainage facilities and nitrogen injection system for stir and cooling of oil.

The pressurized nitrogen cylinder placed in a cabinet is connected to the transformer oil tank (near its bottom) with the help of pipes and valves. Cable connections are to be provided from the signal box placed on the transformer to the control box in the control room and from the control box to the cabinet.

Fire detecting system placed at the top of transformer is to be connected in parallel to the signal box. The signal box shall be connected to isolation valve, fitted between the conservator tank and buchholz relay, for blocking the oil flow from conservator tank, control box is also to be connected to the relay panel in the control room for system activation signals.

The system is automatically operated with the help of activating signals for immediate operation in the event of rise of oil temperature / fire. On receipt of all activating signals, the drain of a pre-determined quantity of oil commences thus removing high temperature top oil layer.

After a time depending on the scenario, the nitrogen is released from the cylinder to a pressure reducer / regulator and injected inside the tank at a pre-fixed rate, stirring the oil thus bringing the temperature of top oil layer down. Nitrogen occupies the space created by oil drained out and acts as an insulating layer between the tank oil & fire on top cover. The isolation valve for conservator blocks oil flow from conservator tank to isolate it and subsequently preventing aggravation of fire.

The system should operate auto as well as manual mode with remote and local position.

2. The work covers Design, Engineering, Documentation, Procurement, Manufacture/Fabrication, Assembly, Testing and Inspection at manufacturer's works, painting, packing, insurance, supply, transportation to site, unloading, storage, erection, testing, commissioning, final painting, stabilizing and performance guarantee test of the equipment and facilities for Nitrogen Injection System for 03 nos. Transformers (Capacity, Voltage ratio & Quantity of Oil mentioned in Annexure - I) at Transformer Yard of BPSCL on Turn-key basis. This shall be complete in all respects i.e., civil & structural work, electrical, mechanical, instrumentation, etc.
3. The system shall be required for automatic prevention, extinguishing of fire and avoid the explosion of the transformers. The system shall also be provided with the manual operation facilities (remote and local position). The Nitrogen Purging System provided under this package is given in the subsequent paragraphs.
  - a) A steel framed cabinet to be kept on RCC foundation near each transformer to accommodate the following:
    - i. Nitrogen Cylinders of adequate capacity with pressure gauge and valve.
    - ii. Solenoid / electrically operated magnetic valve, actuators / lifting magnet.
    - iii. Electro-mechanical control equipment for oil drain (quick drain valve) with oil drain pipe
    - iv. Electro-mechanical control equipment for nitrogen release.
    - v. Pre-determined regulated nitrogen flow arrangement to release the nitrogen
    - vi. Flanges on top panel for connecting oil drain and nitrogen injection pipes for transformer.
    - vii. Limit switches for sequential operation and monitoring of the system.
    - viii. Panel lighting (LED Type).
  - b) Transformer conservator isolation valve to check & isolate abnormal oil flow from conservator tank to transformer.
  - c) Pipes, valves, fittings and supports for nitrogen supply and oil drain facilities. The pipe routing shall be decided by the successful. After erection of pipes, the erected pipes should not cause any problem for maintenance jobs of transformers.



- d) Oil drain and Nitrogen Injection pipes with gate valves on transformer tank at suitable locations. Gate valves on oil drain pipe & nitrogen injection pipe should be able to withstand full vacuum. A non-return valve shall also be fitted on Nitrogen Injection pipe between transformers gate valve & fire extinguishing cubicle valve.
  - e) Fire detection system detectors including brackets on the top of transformers.
  - f) The signaling box shall be fitted on the transformer. This shall be connected through cables to shutter transformer conservator isolation valve & fire detectors and for further connection to the control box through signal box.
  - g) Control Box / Control Panel for monitoring system operation, logical operation including remote operation of the system.
4. **Operation of the System** : The system shall be provided with the facilities with auto, manual, remote, local operation. The sequential & logical operation are as follows:-
- a) Prevention of Fire in Auto Mode:
    - i. Differential Relay Operation.
    - ii. Buchholz Relay paralleled with Pressure Relief Valve of RPRR. (Rapid Pressure Release Relay).
    - iii. Tripping of all connected breakers (Pre-requisite for initiation of system activation).
  - b) Extinguishing of Fire in Auto Mode:
    - i. Fire sensing device.
    - ii. Buchholz Relay paralleled with Pressure Relief Valve of RPRR.
    - iii. Tripping of all connected breakers/ master relay (Pre-requisite for initiation of system activation).
  - c) Operation in Remote / Manual Mode: The facility to start the system in remote from control panel and from local switches in manual mode shall be provided
    - i. Tripping of all connected breakers is a pre-requisite for initiation of system activation.
    - ii. Manual mode switch put on position at control box.
    - iii. Opening the depressurized valve and subsequently injecting of nitrogen after specified time-delay.
  - d) In case of AC power failure oil drain and nitrogen injection shall be done by DC power.
  - e) In case of power failure oil drain and nitrogen injection shall be done in manual mode.
5. **Civil & Structural**: The RCC foundations for the cabinet, pipe supports in the yard piping and fixing of control panel in the control room and transformer oil pits are to be considered in the scope on turnkey basis.
6. **Electrical**
- i. Scope of work for Electricians shall include Designing, Engineering, Manufacturing, Fabricating, Assembling, Packaging, Transportation, Supplying, Unloading and Storing at site. Installation, Testing and Commissioning of all the electricians, electrical & instrumentation equipment related to NIFPS for all 03 nos. of transformers will be installed in transformer yard of BPSCL.
  - ii. The electrical system for NIFPS should no way disturb to the existing electric system of any equipment installed in BPSCL.
7. **Control Panel**: Control panel with necessary indications & operating switches etc. should be provided for the sequential and logical operation of the proposed NIFPS. Tapping of power from the existing board shall also include modification, if required, in the existing panel, protection setting etc. to make it suitable for connecting feeding cable to proposed control panel.
8. **AC / DC Power Supply**: The power shall be made available at 3 Ph. 50 Hz, and 415V AC at one point and 220 V DC at another point.
9. **Power & Control Cables**: All LT Power & Control cables for new installations and facilities including the following:
- i. FRLS LT Power & Control cables of suitable sizes, from existing switch board (DCDB & ACDB) to the proposed control panel.
  - ii. FRLS LT Power cables from proposed control panel to individual light points/switches etc.

- iii. Fire detectors rated above flash point of transformer oil 141° C for detecting fire outside of the transformers shall be provided as per the requirement of system. The cables shall be suitable for 750° C for 3 hours ambient temperature.
  - iv. FRLS cables shall be used for connection between transformer signal box / marshalling box to control panel and control panels to fire extinguishing cubicle.
10. **Power Cables:** The LT power cables shall be 1.1 kV grade, FRLS, multi-core, heavy duty electrical grade Copper conductors, extruded PVC insulated, PVC inner sheath and outer sheath, steel wire armoured as per IS: 1554-1987.
  11. **Control Cables :** 1.1 kV grade, multi-core, FRLS, armoured, annealed copper conductor, PVC insulated and suitable for operation at 70° C ambient and shall conform to IS: 1554 (part- D)-1976 and IS: 5831-1984. Minimum copper conductor size to be used 1.5 sq. mm. control cables shall have 25% or at least 1 no., whichever is higher, as spare cores.
  12. One (01) spare full Nitrogen cylinder is to be provided along with the system for each transformer.
  13. Modification in existing/erection of new oil line/valve is to be done in such a manner that there should not be any problem in future for oil filling/draining/filtration etc. All supplied valves are to be as per standard and made of brass.

**Other Terms & Conditions**

**1. Performance Test:**

The successful bidder shall arrange for performance test of the complete system at site which will be witnessed by the representative of BPSCL. These tests shall include simulation and verification of the response of complete system without injection of Nitrogen.

**2. Factory Test:**

Tests will be carried out on following in the supplier's workshop in presence of purchaser's representative.

- i. Cubicle showing oil drain and nitrogen injection.
- ii. Operation of conservator isolation valve
- iii. Operation of control box.
- iv. Fire extinguishing performance test on total system.

**3. Special Instructions to Successful bidder:**

- i. Supervision of the work on site shall have to be carried out by the bidder's supervisor. The bidder and the supervisor will be fully responsible for any unsafe, indecent, illegal incidents caused by their employees.
- ii. The successful bidder has to visit the site and satisfy himself with respect to the nature and extent of the work involved.
- iii. The Successful bidder has to clear his doubt about the technical parameters and drawings and obtain necessary clarifications from the BPSCL, if required.
- iv. The Successful bidder will have to take prior written approval from the BPSCL before appointing sub-contractor for the work.
- v. The Successful bidder will have to ensure presence of well experienced engineers and technical staff as per requirement for erection, testing and commissioning of plant and equipment. They will have to arrange for necessary gate-passes, vehicle-passes and permission for working in Sundays, holidays or during night-hours for their employees. The fulfilling the formalities as laid down by the BSL/ BPSCL/ CISF authorities will be responsibility of Successful bidder.
- vi. Successful bidder will dismantle & remove the three (03) nos. of old high velocity water spray (HVWS) system. Removed systems are to be kept at designated place allocated by BPSCL.
- vii. Plant and equipment supplied should be of latest technology. All materials and equipment should comply with latest codes and standards, applicable nationally / internationally. A consolidated list of all codes and standards followed or adopted for design, manufacturing and testing shall be submitted. Preferably, all equipment and accessories shall confirm to the latest Indian Standards and IPSS wherever applicable. All electrical equipment supplied shall be designed, manufactured, tested & erected as per the latest revision of Indian Electricity Rules, Statutory requirements of the Govt. of India, Govt. of State. In the event of requirement of TS exceeding the requirement of corresponding standards, regulations & safety codes, the specification provided in the TS shall govern. In the event of conflict between standard regulation & TS, the most stringent shall be applied.
- viii. All equipment as may be necessary shall conform to the provision of statutory and other regulations in force such as Indian explosives Act, Indian Factories Act, Indian Boiler Regulation, State Factories Act, Central Pollution Control Board, Indian Weights & Measures Act, etc. The successful bidder shall take necessary steps to get all the installations within his scope of supply approved by the concerned legal authorities.
- ix. Execution of entire work shall be carried out in such a manner that normal working of the existing plant is not interrupted. Shut downs, for mutually agreed periods shall be arranged by BPSCL for interconnections / modifications / extensions of existing facilities.
- x. The scope of work also includes the design, supply, fabrication, storage, handling, erection, testing & commissioning of complete package. The equipment shall be connected with the GI earthing strips with the existing earth grid for the earthing of the equipment.

- xi. The scope of work for the Contractor for Erection & laying of cables shall also include supply, fabrication, installation testing and commissioning of cable laying accessories like flexible conduits, GI pipes, clamps, cable No. Tags, ferrules, glands, copper lugs, jointing kits, Termination kits, nuts & bolts and sundry items etc.
- xii. After erection, all equipment, pipes, structures, etc., shall be thoroughly cleaned and painted with one coat of primer and two coats of approved color paints as per standard norms.
- xiii. Fire proof paints shall be of good quality and shall be strictly as per instructions and recommendations of the paint manufacturer and to the approval of BPSCL authority. Painting in damp or foggy weather shall not be resorted to. Painting specification and procedure shall be subject to approval of BPSCL.
- xiv. All the manufacturing / fabrication works shall be carried out only on the basis of approved drawings and schemes or as directed by the BPSCL. It is solely the responsibility of the successful bidder to ensure that all working drawings prepared by him bear the stamp of approval of the BPSCL prior to start of work. All other drawings shall bear the acceptance stamp of BPSCL for execution of the project.
- xv. All term and condition of the Standard Bidding Document (SBD) issued by BPSCL along with the Tender Specification (TS) subject to agreed changes to be adhered by the successful bidder.

#### **4. Safety:**

- i. Prior to commencing any work at site, the successful bidder shall obtain clearance from BPSCL's Engineer/Safety Department and shall abide by all the safety rules and regulations of the plant.
- ii. All safety appliances / kits required for the personnel during testing and commissioning shall be arranged by the successful bidder.
- iii. The safety precautions shall conform to norms set by BPSCL Safety Department and relevant Indian Codes.

#### **5. Penalty Charges:**

The contractor will be exposed to following types of penalty charges:

- i. Party will start the job after getting intimation from BPSCL. If the work is not started within 15 days from intimation, a penalty @5,000/- per day will be imposed.
- ii. If a breakdown occurs due to either poor workmanship or some sort of negligence in doing a job properly, a penalty of Rs. 10,000/- will be charged.
- iii. Any case of non-removal of industrial waste generated after completion of job will be penalized @ Rs. 1000/- each time of such an occurrence.

**Self Declaration**

I.....son/daughter of Shri ..... Aged..... years  
resident of .....PS.....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  
1<sup>st</sup> Floor, Tata Centre  
43, Jawaharlal Nehru Road  
Kolkata – 700 071

**Fax: 033 – 2288 3279**

**Ref: Reverse Auction for .....for 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 ..... for .....for Bokaro Power Supply Co. (P) Ltd., Bokaro Steel City.

<b>Market No.</b>	<b>Last Quoted Price</b>

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 :