

BOKARO POWER SUPPLY CO. (P) LTD.

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

CIN:U40300DL2001PTC112074

Reg. Office : Ispat Bhawan, Lodhi Road, New Delhi - 110 003

TENDER NOTICE NO.: BPSCL/CEO/P&C/17-18/C-114/NIT-667/4581

Dated 23/09/2017



TENDER DOCUMENT

**NAME OF WORK: AMC and Operation of Air Conditioning Systems &
Ventilation Systems of TPP, CPP & Unit#9.**

**COST: Rs.1050/-
(Rupees One Thousand Fifty only)**

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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

NOTICE INVITING TENDER

CIN:U40300DL2001PTC112074

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

NIT No. : BPSCL/CEO/P&C/17-18/C-114/NIT-667/4581

Date: 23/09/2017

For and on behalf of BOKARO POWER SUPPLY COMPANY (P) LTD, sealed tenders in three parts, **Part - A** : Cost of Tender document & EMD, **Part- B** : Technical & Commercial Offer and **Part – C** : **Online Price Bid** are invited, from reputed, experienced and financially sound firms for the following work at our Power Plant.

| | |
|---|--|
| Description of Work | AMC and Operation of Air Conditioning Systems & Ventilation Systems of TPP, CPP & Unit#9. |
| Earnest Money (in Indian Rs.) | Rs. 15,000/- (Rupees Fifteen Thousand) only |
| Cost of tender documents (Non-refundable) (in Indian Rs.) | Rs.1050/- (Rupees One Thousand Fifty) Only including GST @ 5% |
| Period of contract | 01 (One) year from the date of commencement of Work. |
| Last date & time of submission of tender | 27/10/2017 at 12.00 Hrs. (IST) |
| Bid opening Date & Time. | 27/10/2017 at 12:15 Hrs. (Part A & B) |

Qualifying Requirements / Eligibility Criteria :

1. Average annual turnover (AAT)

Bidder should have Minimum average annual turnover (MAT) of **Rs. 10.38 Lakhs**

- Average annual turnover shall be determined taking into consideration turnover of available preceding three consecutive financial years. Other income shall not be considered for arriving at annual turnover.
- Audited annual accounts along with auditor's report of the bidder should be furnished in support of the same. Where audited annual account is not mandatory as per the law, the bidder has to submit annual financial turnover during the last three (03) consecutive years, ending 31st March of the previous financial year duly certified by CA.

2. Technical Capability :

Bidder should have experience of having completed **similar works** in any Public Sector Undertaking / Government / Semi Government organization or joint venture thereof / Company registered under Companies Act during last 7 years ending last day of month previous to the one in which offer are invited shall be either of the following:

Three similar completed works each costing not less than to **Rs. 10.38 Lakhs**

OR

Two similar completed works each costing not less than to **Rs. 13.85 Lakhs**

OR

One similar completed work costing not less than to **Rs. 24.23 Lakhs**

- **Similar Work means:** Carrying out the job of AMC of central air conditioning system consisting of compressor, AHU and cooling tower.
- The value of work order(s) submitted by the bidder will be considered on pro rata yearly basis.
- Completed Work means the executed/completed portion of Work Order/AMC/RC, even if the work has not been completed in totality (subject to furnishing proof of executed value of work in the form of certified copies of RA Bills) along with successful work execution certificate (by the concerned authority etc.)

3. In support of their eligibility and experience, the bidder is required to submit self attested photo copies of work orders, completion certificates (by the concerned competent authority etc.) along with the techno-commercial bid. In addition, bidder shall submit an affidavit as per format at **Annexure-VI**, declaring that the documents submitted by them are genuine.
4. Credential of the bidder having experience as a sub contractor for supplying manpower only will not be considered.
5. The bidder shall furnish authenticated copies of latest IT Return, GSTIN, EPF certificate, ESI Certificate.

The bidder is also required to submit Annexure VIII & IX as instructed there in.

General Terms & Conditions:

- i) Offer shall be accompanied with Cost of the tender documents of **Rs. 1050.00** (non-refundable) in the shape of Demand Draft / Banker's Cheque drawn from any Nationalized / Scheduled Bank except Co-Operative Bank, in favour of **Bokaro Power Supply Company (P) Ltd.**, Payable at Bokaro Steel City.
- ii) Offer shall be accompanied with Earnest Money Deposit (EMD) of **Rs. 15,000.00 (Rupees Fifteen thousand) Only** in the shape of Demand Draft / Pay Orders / Bankers Cheque Payable at Bokaro Steel City // Bank Guarantee having validity for, *one (01) year including claim period of 03 months*, from any Nationalized Bank / Scheduled Bank except Co-operative Bank drawn in favour of **Bokaro Power Supply Company (P) Ltd.** as per format available at our website: www.bpscl.com

In case of forfeiture of EMD by BPSCL the bidder is required to re-imburse the applicable GST to BPSCL.

- iii) However, Micro & small enterprises (MSEs) / PSU /Govt. Undertakings and Co-operative societies will be exempted from submission of cost of tender document & Earnest Money as per government policy. For MSEs the exemption from paying cost of tender document & Earnest Money will be granted only on submission of valid notarized copy of certificate having a valid Entrepreneurs Memorandum (EM) number.SSI/NSIC certificate holders should also submit a copy of Entrepreneurs Memorandum.
- iv) **BPSCL reserves the right to :**
 - a) Re-tender / extend the due date of submission of offer, if response to tender is not adequate or otherwise.
 - b) Accept or reject any offer / all offers in full or part at any time at any stage without assigning any reasons whatsoever and without any damage / compensation thereof to the bidders.
 - c) Modify the tender documents at any stage before the due date of tender.

Note:

1. Tender documents are to be downloaded from **Website: www.bpscl.com** only.
2. 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
Sd/-
(J.M Prasad)
DGM (P&C)
Tel : 8986874098
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 03 parts as follows:-

- a) **Part A:** This part Comprises of Cost of Tender document & EMD, NIT No. & date marked with Part A.
- b) **Part B:** This part Comprises of Technical and Commercial details, consent on terms & conditions of NIT along with copy of System generated **acknowledgement-slip** for Online submission of sealed price bid etc. marked with (Part-B) Techno-Commercial Bid, NIT No. & Date (*In hard copy*)

Note: Part A & Part B shall be submitted in hard copy at following address:

DGM (P&C)
Bokaro Power Supply Co. (P) Ltd.
Hall No.M-01, Old ADM Building
Ispat Bhawan, Bokaro Steel City – 827001
Ph: 06452 240380, Tel: 8986874098

- c) **Part C:** Online sealed Price Bid 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 available before proceeding further (where ever applicable).

New Users:

Steps to get your **User Code** 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 Code and Password.
5. Changing of password on first login is compulsory.
6. On receipt of the User Code 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 code 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:

1. **Current price, Market status, Start Bid Price, Bid Decrement, Effective Price** will not be available.
2. Time remaining for the event to close will be shown under the Bid Summary screen.
3. For any clarification on the bidding process please contact
Mr. Manish Nandwana _ 9163348165_ manish.nandwana@mjunction.in
Ms. Monalisa Shaw _ 9163348297_ monalisa.shaw@mjunction.in
Mr. Sumit Kumar Das – 8873002750 - sumit.das@mjunction.in for Bokaro Office
A copy of System generated **acknowledgement-slip** for Online submission of sealed price bid to be submitted along with Techno-commercial Bid.

- 1.01.1 A & B part should be sealed in separate envelopes, clearly superscribing on the top of each envelope the relevant part number and description along with NIT reference and date of opening and submit all the parts simultaneously in another sealed envelope clearly superscribing NIT reference and date of opening.

1.02 Tender Validity Period

The tender shall be valid at least for 120 (One hundred twenty) days from the date of opening.

1.03 General

- i) Tenderer's are requested to visit site for actual assessment of the job before submission of their offer.
- ii) The tender rates shall be written in English, both words and figures. In the case of any discrepancy between the words & figures of the rates quoted, the rates expressed in words shall be taken as correct. In the case of discrepancy in the Unit Rate and Amount, Unit Rate will govern.
- iii) All pages of the tender documents, conditions, specifications & all enclosures must be signed with seal of the company at the lower left hand corner by the tenderer before submission of the tender.
- iv) If the intending tenderer is a Firm or Company, then they 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.
- v) If any tenderer withdraws his tender before its acceptance or refuses within a reasonable time without giving any satisfactory and acceptable explanation thereof, the tenderer shall be disqualified for making any tender of the BPSCL for a minimum period of one year and the Earnest Money will be forfeited.
- vi) **Handling of Earnest Money:**
 - a) Earnest Money will be refunded to the un-successful tenderer after finalisation of tender and no interest will be paid for the same. Bidders are requested to provide Bank Details for refund of EMD.
 - b) The amount of Earnest money will be adjusted against Security Deposit only in case of successful Tenderer.
- vii) 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.
- viii) **Any conditional offer or offer having deviations from our qualifying requirement, specification & instruction sheets is liable to be rejected.**
- ix) BPSCL reserves the right either to reject any/all the tenders without assigning any reason thereof.

General Terms and Conditions

- 2.01 Bidders are requested to visit the site before submission of the bid to get acquainted with actual site condition.
- 2.02 You will have to follow and observe the safety & statutory requirements.
- 2.03 You will have to fully responsible for any sort of unsafe activity of your workmen.
- 2.04 All working personnel should have proper safety certificates issued by BPSCL before start of work.
- 2.05 Supervision of the work has to be carried out by the agency.
- 2.06 Work is to be carried out as per instruction & satisfaction of the Engineer-In-Charge.
- 2.07 Rates are to be quoted on firm price basis. Any conditional offer is liable to be rejected.
- 2.08 In case of any documents/information submitted by the bidder(s) found to be false or containing any misrepresentation of having any fraudulent declaration in it then in such eventuality legal action (including cancellation of contract, banning of business dealing, forfeiture of EMD, criminal proceedings etc.) as deemed fit may be initiated by BPSCL against the bidder.

2.09 **Payment Terms :**

90% of contract value will be paid on pro-rata basis on progressive jobs duly certified by Engineer In-Charge and balance 10% will be retained as security deposit which will be released after 06 months of satisfactory execution of work.

The expression satisfactory execution of the order shall mean fulfillment of all obligation arising out of and the guarantees stipulated in the contract. In default at satisfactory execution of the order the security deposit shall be forfeited to the BPSCL.

Any penalty for which the successful tenderer shall be found liable or any liquidated damages which shall be payable to the BPSCL in terms of the Contract, shall also be recoverable by the BPSCL from the Security deposit. If such security deposit will not be adequate for the purpose of liquidating the amount of penalty and/or damages as contemplated, the amount in excess thereof shall be deducted from any sum or sums which may be due or may become due to the successful tenderer from the BPSCL on any account whatsoever.

Notwithstanding what has been stated above if the successful tenderer shall have duly performed all his obligation under and the guarantees stipulated in the contract and observe all the terms and conditions thereof and no penalty shall have been recoverable from him and / or the BPSCL shall not have suffered any damages whatsoever, then security deposit shall be refunded, on receipt of a certificate from the Engineer in - charge that there is no claim against the Successful tenderer under the Contract.

- 2.10 Bidder will produce medical fitness certificate for his workers prior to CLC clearance for working at height. Height passes to be obtained from safety department.
- 2.11 You will have to strictly adhere to the provision of various labour laws including payment of bonus Act 1965.
- 2.12 You will have to pay Rs.4/- extra to the working persons as per BPSCL rules above minimum wage of one day.
- 2.13 Offer is to either type written or by handwritten and in no case partly type written and partly hand written. No corrections, overtyping shall be permitted without duly authenticated.
- 2.14 Tenders shall be accompanied by a copy of latest IT Return submitted, GSTIN of the Individual/Party/Firm submitting the Tender.
- 2.15 Paying authority –In - charge (F&A), BPSCL.
- 2.16 Tenderers shall quote their firm rates and no negotiations will be held except with the lowest tenderer, if required.
- 2.17 In accepting the order you are understood to accept to all responsibilities for completing the work in all respect.

2.18 **GST Clauses :**

- a. All bidders should strictly quote GST as extra. Offers with GST as inclusive will not be acceptable and will be liable for rejection.
- b. Bidders have to submit their GSTIN registration details to BPSCL along with supporting documents.

| | | |
|---|-------------------------------------|-------------|
| 1 | GSTIN | |
| 2 | Service Accounting Code No. | |
| 3 | A | CGST (in %) |
| | B | SGST (in %) |
| | C | IGST (in %) |
| 4 | Total GST (3A+3B+3C) (in %) | |

- c. Bidder would pass on the tax benefit/savings, if any, on account of output taxes to BPSCL.
- d. Bidder 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.
- e. In case the Input Tax Credit of GST is denied or demand is recovered from BPSCL on account of any non-compliance by the Supplier/ Contractor, including non-payment of GST charged and recovered, the Supplier/ Contractor 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 the vendor, BPSCL will not be liable to reimburse any part of such differential tax, interest, penalty etc. It will be the sole responsibility of the vendor to discharge appropriate taxes, as applicable.
- f. Supplier/ Contractor shall maintain high GST compliance rating track record at any given point of time.

2.19 The manpower (labour and Supervisor) deployed for completion of the job and for compliance of work & safety of the workmen should be adequate. However the compliance and completion of the job cannot be restricted to labour supply but on the actual execution of the job to be certified by the Engineer – In – charge.

2.20 **VDA Clause :** During operation of the contract, if there is an upward revision of minimum wages, VDA by the appropriate Government, the bidder shall be entitled to reimbursement of such additional amount on actual basis subject to production of documentary evidence. The base date shall be the Bid opening date OR Revised offer date (in case of negotiated prices)

2.21 **Work accident :**

- a. You will be totally responsible for the safety of the workers employed by them. In the event of any work-accident, major or minor, your representative you must take care of the injured person immediately and provide him the required treatment as suggested by the doctor. The injured person may be admitted to BGH for the treatment by paying the charges as demanded by the hospital authority.
- b. You shall be fully responsible for making payment of compensation to your own workmen or to those of your sub-contractor in respect of any accident or injury occurring to them. BPSCL will in no way be responsible for it and will remain indemnified against all such claims of compensation in such cases

- 2.22 **SUBMISSION OF BANK GUARANTEE FOR QUOTING UNWORKABLE RATE:**
if a tenderer quotes unworkable rates i.e. if the quoted price is less than the lower limit of the estimated price and is considered for placement of order, the party will be asked to justify the rate quoted and will have to give Performance Guarantee Bond (in addition to the Security Deposit) in the form of Bank Draft/Bank Guarantee. The amount of Performance Guarantee Bond will be equal to the difference between lower limit of estimated price and quoted price of the tenderer. Earnest Money of the tenderers who refuse to give Performance Guarantee Bond will be forfeited and they will not be considered for taking participation in any kind of Tender for next Six (06) months from the date of issue of letter to the Defaulter Firm, if order / contract is not finalised from the present tender.

In case of forfeiture of Performance Guarantee Bond the contractor is required to reimburse the applicable GST to BPSCL.

2.23 **RATE FINALIZATION:**

BPSCL reserves the right to finalize the rate through either of the following modes:

1. a. Either through Online Seal Bid Price Bid obtained just before Reverse Auction

OR

- b. Opening of Online Price (*submitted on www.buyjunction.in*) / physical Price Bid, submitted at the time of techno-commercial bid.
2. Through Reverse Auction to be conducted by our service provider M/s. mjunction.
3. If RA is not concluded for any reason, RA may be re-launched or case may be determined on the basis of online/physical price received along with the techno-commercial bid.
4. Where it is decided not to conduct the RA, the techno-commercially accepted bidders shall be asked to submit online sealed or physical sealed decrement/s. In this case – On line/ physical price bid/s and online decrement or physical decrements, as decided by BPSCL, shall be opened together on same day and case be processed.

- 2.24 **FORCE MAJEURE** : Bidder shall not be considered in default if delay occurs due to cause beyond their 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 / completion period will be extended for a length of time equal to the period of force majeure or at the option of owner order may be cancelled without any liability what so ever on the part of the owner.

- 2.25 **The Parties should clearly indicate their prices firm in all respects till execution of the work order.**

- 2.26 **Special Instruction:** Tender will be opened on **27.10.2017 at 12.15 PM**. If it is declared a holiday by BPSCL then in the next working day at the same time in the presence of Tenderer's Authorized Representatives, who wish to be present.

Scope of works: This includes three (03) Parts:

1. **Part A-** AMC of AC Systems of GCB-I, II, MCB, Dispatcher, UCR-I, II & ECR-II
2. **Part B-** AMC of AC & Ventilation systems of Unit#9.
3. **Part C-** Operation for AC and ventilation system of all the above Units.

Detailed Scope of Work as follows:**1. Part A: AMC of following AC Systems of GCB-I, II, MCB, Dispatcher, UCR-I, II& ECR-II:**

- a. **4x5H46 Chilled Water Plant** (Voltas Make):
(04 Nos. of Units consisting of 04 Nos. of compressors & motors 03, Nos. of chiller pump, 04 Nos. of AHU, 03nos. of condenser pumps and 01 No. of Cooling Tower)
- b. **2x5H46 DX Plant** (Voltas Make):
(02 Nos. of units consisting of 02 nos. of compressors, 01 No. AHU and 05 Nos. of condenser pumps)
- c. **3x5F 40 D X Plant** (Voltas Make):
(03Nos. of units consisting of 03 Nos. of compressor and motor, 03 Nos. of condenser pumps and 01 No. of AHU)

Activities involved:

- 1.1 De – scaling of condenser - in every 03 months.
- 1.2 Cleaning of cooling coil fitters - Twice in a week
- 1.3 Cleaning of cooling tower/sump - Once in a month
- 1.4 Greasing of all motors - Once in 03 months
- 1.5 Replacing of gland packing of pumps - As and when required
- 1.6 Tightness checking of cables – in every 03 months
- 1.7 Alignment of Belt and couplings – in every 03 months
- 1.8 Checking of compressor oil level- Every Day
- 1.9 Leak testing - in every 03 months
- 1.10 Cleaning of expansion valves and Y strainer- in every 03 months.
- 1.11 Maintenance of **11 Nos.** of condenser Pumps for GCB 1&2, UCR 2, **03Nos.** for chiller pumps GCB 1&2:
 - Schedule inspection of every pump to be taken bi – monthly.
 - Any spare required for the pump to be supplied by contractor at no extra cost.
 - In – case of any breakdown of the above pumps, they should be immediately attended and to be brought back to normalcy.
 - Spares required for the pump to be supplied by Contractor at no extra cost.
- 1.12 Maintenance of AHUs of GCB 1&2 MCB Dispatcher UCR & ECR:
 - Schedule inspection to be done once in a month, any defect notices to be attended.
 - Spares to be supplied at no extra cost.
- 1.13 Maintenance of 02 Nos. Cooling Towers:
 - Spares like cooling tower motors & nozzles to be supplied at no extra cost.
- 1.14 Replacement of refrigerant required as a result of leak in the system.
- 1.15 Chemical cleaning of cooling coils as and when required:
 - Chemical required for the purpose to be supplied by Contactor at no extra cost.
- 1.16 Annual servicing of MCC:
 - Replacement of fuses, contactor coil, kits, etc.
- 1.17 Painting of the equipments, pipelines once in a year. Whitewashing of 03 nos. of compressor rooms once in a year.
- 1.18 Any repairing of the piping work if required.

1.19 You will have to keep following urgent spares in your store for emergency purpose;

- a. Shaft Seal assembly – 06 Nos.
- b. AHU Bearing P207 – 06 Nos.
- c. AHU Bearing P206 – 03 Nos.
- d. AHU Shaft AH – 9 – 01 No.
- e. AHU Shaft AH – 11 -01 No.
- f. AHU Shaft AH – 07 – 01 No.
- g. Refrigerant – 01 Cylinder
- h. V Belts, Pulleys – 01 Set of each unit

2. **Part B- AMC of Air Conditioning systems, Ventilation systems & Chiller Units of Unit#9 along with its auxiliaries:**

Complete maintenance activities as and when required to ensure round the clock smooth operation of all the equipments *listed below*. The contract shall not be limited to but shall include the following as part of the **mechanical maintenance** scope:-

- 2.1 Daily inspection of all the equipments & plan for maintenance jobs for their smooth operation
- 2.2 Condition monitoring of all the equipments and CGT jobs on regular intervals.
- 2.3 Arresting leakages of oil/water/ process medium maintaining safety aspect and aesthetics of Chiller & AHU Plant Rooms.
- 2.4 Equipment cleaning of dust/debris/oil spillages; greasing, oil / refrigerant top up if required.
- 2.5 Checking Compressor vibration, oil level control, bearing vibration and gas pressure.
- 2.6 Lubricating the bearing of motors, pumps, Cooling Tower Fans & motors etc. as per requirement
- 2.7 Replacement of oil if required.
- 2.8 Regular Checking of Electrical panel including troubleshooting etc.
- 2.9 Annual servicing of all the equipments.
- 2.10 Checking, Pressure tests & leak testing of refrigeration system as and when required and refrigerant gas charging as per requirement.
- 2.11 Checking & alignment of compressors, pumps and motors of Chiller units and AHUs.
- 2.12 Replacement of pump & motors bearing.
- 2.13 Repairing/maintenance/replacement of refrigerant compressors, all motors, Pumps & valves etc. as and when required.
- 2.14 Carrying out de-scaling of Chiller & condensers as and when required, dismantling of pipelines, opening of end covers, checking & cleaning of individual tubes, re-fixing of end covers after replacing the gaskets.
- 2.15 Annual overhauling of Pumps, de-scaling the impeller, checking of pump shaft, gland bush, bearing, replacement of internals viz. gland packing, bearing, shaft etc.
- 2.16 Repair / replacement of valves, whenever required.
- 2.17 Repair / Maintenance of all motors, cleaning & checking of all components, greasing, replacement of bearings, checking & machining of rotor shaft, if required, varnishing of stator, heating, reassembling of motor parts and painting of the motor.
- 2.18 Replacement of motors, pumps with foundation, valves, associated pipelines with insulation, CT fans & its parts as per requirement.
- 2.19 Regular checking and routine servicing of all the plant equipments and AHUs.
- 2.20 Regular inspection & cleaning of the Cooling Tower sump for dirt, muck etc.
- 2.21 Cleaning of Cooling Tower cell basement as per requirement.
- 2.22 Inspection, repair, replacement of various components of Cooling Tower viz. fills, Nozzles, Drift Eliminators etc.
- 2.23 Maintenance of CT fan, gear box & motor.

| List of Equipments: | | | | |
|----------------------------|--|--|---|--|
| a. | ESP Control Room AC | Blower Capacity – 12,000m ³ /hr. Model-DPW-1322AS (Make-Blue star) Capacity – 11TR x 02 Nos. Refrigerant – R-22. | | |
| b. | Control Room AC | Capacity-60TR x 02 Nos. Model WCVRI-(Make-Blue Star) Refrigerant-R-22 | | |
| c. | Air washer #1 & 2. | Capacity-85,000MH (m ³ /hr.) x 02 RPM-531. | | |
| d. | Air washer and Ventilation system in switchgear Building | Capacity – 35,000 m ³ /hr. x 01 | | |
| e. | Exhaust ventilation in TH hall | Capacity-10000 m ³ /hr x 08 | | |
| f. | Exhaust ventilation in Battery Room | Capacity-5000m ³ /hr. x 02 | | |
| g. | Exhaust Ventilation in AC Plant Room & Compressor Building | Capacity – 5000m ³ /hr. x 07 | | |
| h. | For Toilet & Pantry Exhaust | Capacity – 1000m ³ /hr. x 03 | | |
| i. | Ventilation system of AHP | Make –Vent lair Capacity – 15,100 m ³ /hr. x 01 | | |
| j. | Ventilation system of CHP | MCC-I:- Make: Flow link. Capacity – 22,000 m ³ /hr. x 01 | MCC-II:- Make – Flow link Capacity – 15,000 m ³ /hr. x 01 | DFDS Compressor Room:- Make – Flow link Capacity - 4000 m ³ /hr.x3 |
| k. | Chiller Plant for SWAS | Capacity – 5 TR x 2 Refrigerant – R-22. (Make: Forbel Marshal Ltd.) | | |
| l. | Air dryer of A.H.P. | Make: Delair , Model: FDI – 1270W (S&T) Refrigerant – R-22. Capacity - 20 m ³ /min | | |

Part C- Operation for AC and ventilation system of all the units. :

- 3.1 Round the clock smooth operation of all the equipments in all the 3 shifts and maintaining the operational parameters as per OEM recommendations.
- 3.2 Attending the entire operation of equipments as directed by Engineer In-charge or his representative. Any operational activity which is required to achieve optimum performance shall be ensured by the Contractor.
- 3.3 Starting & stopping of all the equipments as per requirement.
- 3.4 Logging of all the parameters at regular intervals in the logbook.
- 3.5 Regular cleaning and housekeeping of the Plant Room, AHU rooms, Equipments, Cooling Towers, surrounding area etc.
- 3.6 Checking of Cooling Tower Fans regularly.
- 3.7 Check vibration of the Chiller Units, AHUs, pumps, pump motors, CT fans & Fan motors and take corrective action.

SPECIAL TERMS & CONDITIONS:

1. For attending the job, you have to provide all categories of manpower with necessary tools & tackles.
2. For your workers, you have to arrange necessary gate passes against this work order.
3. You have to strictly comply with all safety rules & regulations of BPSCL. All safety appliances of reputed make are to be provided by you for your workers. The list and make of safety appliances may be obtained from safety officer.
4. All taxes applicable will be deducted from your bills.
5. If situation demands, you have to execute the work round the clock as per the instruction of Engineer-In-Charge.
6. During contract period there will be no consideration of idle & escalation charges.
7. Minimum indicative manpower to be deployed for **PART-C of Scope of Work** (i.e. *Operation for AC and ventilation system of all the units*) is **01 no.** of Supervisor (Non Diploma), **01 no.** of SW and **01 no.** of USW per shift for day to day operation for 365 days in a year.
8. Procurement of spares & consumables from site stores, gantry area and disposal of scrap to a distance of 200 meters is party's responsibility.
9. Shutdowns periods will be as per plant's requirement. No idle worker cost due to delay in shutdown will be entertained
10. Guarantee period for the repaired work is 06 months from date of commissioning after repair. Any defects found due to poor workmanship have to be liquidated free of cost by you.
11. The party will have to supervise the operational activities and maintenance work of the entire AC System round the clock to ensure continuous & uninterrupted working of AC System.
12. The party will have to arrange for transportation and storing of items at site at his cost including staying arrangement for the working personnel.
13. Any modification/ alteration in the existing system for the betterment of existing system as deemed essential has to be carried out by the party at his own cost including materials required
14. The party may engage his sub contractor for the subject work under his technical and administrative control after getting necessary approval from BPSCL. But entire responsibility will be borne by the principal party to whom the original work order will be issued.
15. **Subletting Clause:** You may engage subcontractor but you have to take prior approval from BPSCL presenting all the credentials of the subcontractor, whom you may like to engage for consideration.
16. **Scope of supply of Contractor:** The following items are to be supplied by the party as and when required for smooth functioning of the plant at no extra cost.
 - a. R-22 gas
 - b. Oil
 - c. V-belts, Pulleys, coupling.
 - d. Bearings
 - e. Gland packing, Grease.
 - f. Spares of compressors, Compressor motor windings.
 - g. Pump motor winding
 - h. Refrigeration gauges, Controls, Thermostats, Volt coils, Fuses etc.
 - i. AHU Filters, AHU shaft.
 - j. All cooling tower spares, cooling tower nozzles
 - k. MCB, microprocessors, sensors
 - l. Any other spare/ accessories/work required for smooth operation of Air Conditioning System to be taken care of by the Contractor at his own cost.
17. BPSCL will provide Electricity, Air, Water & Storing Area, free of cost, for execution of job.

18. **Penalty Clause:** *Penalty will be imposed, as mentioned below:*

| Sl. No. | CASES | PENALTY AMOUNT |
|---------|--|---|
| | COLUMN(A) | COLUMN (B) |
| 1. | Whenever any defect or breakdown occurs, manpower is to be deployed to attend the defect /breakdown after receipt of permit within an hour, failing which, the penalty is shown in Column No.(B) | For more than 1 hour delay Penalty per hour of delay is Rs. 500. |
| 2. | Workmanship should be of high quality. Any equipment/ system put in service after maintenance should work for 72 hours without any problem. In case of failure, penalty is shown in column (B) | Rs. 500/- for each such instance. |
| 3. | Feed back of all maintenance job is to be given to the concerned officer on regular basis, failing which the penalty is shown in Column (B) | Rs. 500/- for each such instance. |
| 4. | After completion of any job it should be cleared from scrap and unwanted material. Failing which the penalty is shown in Column (B) | Rs. 500/- for each such case. |
| 5. | All enabling facilities provided by BPSCL to be removed promptly. Any delay will invite penalty as given in column (B) | Rs. 500/- per day delay in removing. |
| 6. | (a) If there is total failure of A.C. System in any control room for more than 04 hours. (b) If there is Complete failure entire of A.C System (But not due to power failure) for more than 04 hours. | For every hour beyond 04 hours @ Rs 2000/- per hour. Rs 10,000/- per hour beyond 04 hours. |
| 7. | Supplying less manpower for operation of AC system | (a) Wage reduction upto 10% less manpower (monthly basis) will be done on proportionate basis. (b) For manpower reduction over 10% (monthly basis), a penalty of Rs. 100/- per manday will be imposed in addition to proportionate wage reduction. |

Note: *In case penalty is imposed then the successful bidder has to re-imburse the applicable GST to BPSCL*

19. **SAFETY CLAUSE :** Without prejudice to the right conferred by the clause above for stoppage of work for violation of safety requirements, you shall be liable for penalties mentioned below:

- Upto Rs. 5000/-by DGM (safety)/Head of safety Engg. Department /Head of the Department where work is being done for 1st violation of safety norm, non use of PPEs(Personal Protective Equipments) like safety shoes, hand gloves, safety helmets, goggles etc as per work requirements by you or your workers. This condition is applicable in case of violations of Road Safety norms also.
- Fine upto Rs. 20,000/- on 2nd Violation as mentioned in clause (i) above.
- You shall be debarred for one year / deregistered from taking up further contractual work in BPSCL from the date of issue of debarring / deregistering order on 3rd violation as mentioned in clause no (i) above.
- Fine upto Rs. 10,000/- for violation in use of Full Body Harness by you or your worker for working at height (above 1.8 meter from immediate floor).
- Fine Rs. 25,000/- (minimum) to Rs. 50,000/- (Maximum) for serious injuries and disabilities caused by violations as mentioned in Clause No. (i) and (iv) above.
- Independent of the above, you shall be fined Rs. 1,00,000/- (1 Lakh) or more and debarred / deregistered from taking up further contractual work in BPSCL from the date of issue of debarring / deregistering the order in case any Fatal accident occurs due to violations as mentioned in Clause (i) and (iv) above.

PRICE BID/ FORMAT**Special Instruction :**

1. *In the event of a L1 Bidder backing out prior to placement of order, in addition to forfeiture of EMD the bidder should be suspended for a period of six months from the date of issue of suspension order*
2. *Breakup of quoted unit LC (Landed Cost) excluding GST shall be submitted by the bidder. In case of refusal of L1 bidder to submit price break up, the bidder shall be suspended for a period of six months from the date of issue of suspension order.*
3. **Price Basis L1 bidder will be decided on lowest Landed Cost excluding GST Basis.**

| Sl. No. | Description | Duration | Rate/ Month (Rs.) | Amount (Rs.) |
|--------------------|---|-----------|-------------------|--------------|
| A. | AMC of AC Systems of GCB-I, II, MCB, Dispatcher, UCR-I, II& ECR-II <i>as per scope of work.</i> | | | |
| | 4x5H 46 chilled water plant (Voltas Make) | 12 Months | | |
| | 2x5H 46DX Plant (Voltas Make) | 12 Months | | |
| | 3x4F 40DX Plant (Voltas Make) | 12 Months | | |
| B. | AMC of Air Conditioning systems, Ventilation systems & Chiller Units of Unit#9 along with its auxiliaries. (as per scope of work) | 12 Months | | |
| C. | Operation for AC and ventilation system of all the units | 12 Months | | |
| Landed Cost | | | | |
| Rupees only | | | | |

Note: GST extra as applicable

Signature with seal of tenderer

Notarized Affidavit

I.....son/daughter of Shri
Aged..... years resident of
.....PS.....District.....State.....do
hereby solemnly affirm that:

- (i) I am (designation/authority) in M/s
(name of the firm/company).
(ii) I confirm that all documents submitted against Enquiry No. dtd.
..... in support of eligibility criteria are genuine.
(iii) I undertake to produce all documents in original for verification as and when asked for
the same by BPSCL.

| | |
|---|---|
| <p>Solemnly affirmed & declared before me by Deponent(s) who is/are identified by</p> | <p>The declaration made herein above are true to the best of our knowledge, information and belief</p> <p>signed atOn.....</p> <p>Deponent(s)</p> |
|---|---|

ANNEXURE - VII

CHECKLIST TO BE FILLED BY BIDDER EXCEPT REMARKS:- All documents which is require for fulfill the qualifying requirement/ Eligibility criteria are to be submitted along with tender in serial order (clearly mention page no.) and the tenderer must fill the checklist of Annexure-V

CHECKLIST 1- OF DOCUMENT SUBMITTED BY TENDERER

| Sl.No. | Document | Submit/ Not Submitted | Page No. | Remarks by BPSCL |
|---|-------------------------|--------------------------|----------|---------------------|
| 1. | Valid work order | | | |
| 2. | Completion Certificate | | | |
| 3. | Partnership/ Proprietor | | | |
| 4. | EPF | | | |
| 5. | ESI | | | |
| 6. | Latest ITR | | | |
| 7. | * GSTIN | | | |
| 8. | Turnover/ PL Sheet | | | |
| *If the agency is not under the preview of GST then please write Not applicable (N.A.). | | | | |
| Total numbers of pages in Techno-commercial Bid | | | | |

CHECKLIST-2 [PLEASE TICK (✓) THE ONE WHICH IS APPLICABLE AND CUT (X) ANOTHER]

| | | |
|----|---|------------------------------------|
| 1. | All document as per NIT and Checklist 1 | Submitted () Not submitted () |
|----|---|------------------------------------|

DECLARATION OF TENDERER:-

I M/s hereby declare that to best of my knowledge, the information given in the checklist is correct and complete, if any mistake/ incorrect statement will be found then you have right to reject and cancel (my) tender/application without any notice. I also hereby declare that I have read the all terms and conditions of tender document carefully.

Signature of tenderer with seal

(To be submitted on bidder's Letter Head)

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

We _____ (Contractor Name) having
 PAN _____ & registered office at _____ (Address)
 agree to all the Commercial, General & other Terms & Conditions listed in the
 NIT No. _____ dated _____
 for the work of _____ (subject work) through Reverse Auction.

We confirm that we are in a position to do the job as per the scope of work given in NIT/RFQ. We agree to participate in the Reverse Auction and abide by the rules.

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

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

Name & Designation :

E-mail ID :

Contact phone nos. :

Address :

(Signature & Seal)

Place :

Date :

Format for submitting last quoted prices*(To be submitted on Company Letter Head of the Bidder)***(To be sent within 30 mins of conclusion of the Reverse Auction)**

To,

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

Fax: 033 – 2288 3279**Ref: Reverse Auction forfor Bokaro Power Supply Co. (P) Ltd. held on**

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

| Market No. | Last Quoted Price |
|------------|-------------------|
| | |

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

Signature :

Name :

Designation :

Date :

ENVIRONMENT, HEALTH AND SAFETY**EHS (Environment, Health and Safety) Clause for contracts where overall site is under BPSCL control****Bidder's Responsibilities**

The contractor shall during the entire term of contract undertake to perform the following obligations relating to environment, health and safety:-

1. Ensure that your workforce is not exposed to asbestos or asbestos containing atmosphere.
2. Take suitable control measures to ensure that the workers are protected from dust emission.
3. Monitor and ensure that the working area is free from any toxic gas, vapour and fume. Take adequate measures to reduce level of concentration below permissible limit. Exposure to any particular toxic gas, vapour or fume shall not exceed the maximum permissible limit prescribed in local regulation for any particular period of time. Ensure adequate ventilation and no immediate danger to life and health of personnel working at site.
4. Ensure that there is no flammable atmosphere and uncontrolled fire hazard in and around the work place. In case it is required to work in flammable atmosphere, implement safe working procedure and suitable control measures in order to work safely.
5. Ensure that the workers are protected from excessive noise and heat. Take adequate measures to reduce noise/heat level below the permissible limit.
6. Ensure safe access and egress in and around work place. Ensure proper maintenance of Platforms, staircases, ramps etc. Special care and all safety measures should be taken while working at height. Roof work and access to roofs must not be undertaken without prior permit.
7. All Personal Protection Equipments supplied by the bidder should be of internationally recognized standards. All tools and tackles bought by the contractor for use during the contract period should have proper and valid certification by competent authority.
8. All lifting equipments, tools and accessories provided by BPSCL should be maintained and returned back in sound condition after the completion of contract period.
9. Ensure that the illumination in and around workplace and access areas are maintained properly. Make sure to switch off the light, fan and air conditioners after use.
10. The bidder must ensure that all machinery and equipments are provided with earth fault circuit breakers at all times when using electrical leads. Use of electrical tape for temporary repair is prohibited.
11. Guards and covers for equipments/machineries are to be provided where ever necessary.
12. Gas cylinders shall be securely stored, transported, identified and used in line with legislation and EHS requirements.
13. Fire extinguishers and other fire fighting equipments provided in different locations should never be misused.
14. Bidder must ensure optimum use of water with minimum wastage.
15. Contractor shall also ensure that the work area is kept clean, tidy, & free from debris. The Bidder is also fully responsible for protection of ground and underground from pollution.
16. Identify and highlight potential hazards / risks existing.
17. Ensure suitable corrective actions are implemented for identified issues.
18. Provide adequate emergency and first-aid facilities and it should be available in all shifts.
19. All workers should be trained and communicated about the onsite emergency and evacuation plan.
20. All equipments and plant should be maintained in safe condition.
21. The Bidder and their Personnel admitted to site must conduct themselves in an orderly and safe manner and conform at all times to the EHS Requirements. Fighting, engaging in horseplay, being under the influence of or possessing alcohol or drugs, gambling, soliciting, stealing, immoral or otherwise undesirable conduct is not permitted and shall not be tolerated. Upon knowledge of such conduct, BPSCL shall exclude the concerned person from the site and take all other appropriate measures as deemed necessary. BPSCL reserves the right to perform random drug and alcohol tests.
22. The Bidder shall immediately notify BPSCL of any environmental incident, injury, illness, near-miss, unsafe condition or practice and any loss or damage to property, including incidents related to the Bidder Personnel. An investigation report assessing the root cause, corrective action, and preventative action shall be submitted by the Contractor to BPSCL within 24-hours of the incident's occurrence.