

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/16-17/C-020/NIT-581/3152

Dated 14/06/2016



TENDER DOCUMENT

NAME OF WORK: Annual Maintenance Contract for Preventive & Running / Breakdown Maintenance of Mechanical Components of TPP Boilers & Turbines.

**COST : Rs.3000/-
(Rupees Three Thousand only)**

INDEX

Sl.No	S u b j e c t	Page No.
1.	Cover Page	1
2.	Index	2
3.	Notice Inviting Tender (with QR)	3-4
4.	Annexure – I (Conditions & Rules to be observed in submitting tenders with online Price Bids)	5-7
5.	Annexure – II (General Terms and Conditions)	8-9
6.	Annexure – III (Scope of work)	10-17
7.	Annexure – IV (Special Terms & Conditions)	18-19
8.	Annexure – V (Schedule of Quantity/ Price Format)	20
9.	Annexure – VI (affidavit)	21
10.	Annexure – VII (Checklist)	22
11.	Annexure- VIII (RA Acceptance)	23
12.	Annexure –IX (Declaration after RA)	24
13.	Annexure –X (General EHS responsibility of contractor)	25

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

NIT No. : BPSCL/CEO/P&C/16-17/C-020/NIT-581/3152

Date: 14/06/2016

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	Annual Maintenance Contract for Preventive & Running / Breakdown Maintenance of Mechanical Components of TPP Boilers & Turbines
Estimated Amount (in Indian Rs.)	Rs. 2,04,28,888/- (Rupees Two Crores four lakhs twenty eight thousand eight hundred eighty eight) only excluding Service Tax
Earnest Money (in Indian Rs.)	Rs. 5,00,000/- (Rupees Five lakhs) only
Cost of tender documents (Non-refundable) (in Indian Rs.)	Rs.3000/- (Rupees Three Thousand) Only
Period of contract	01 (One) year from the date of commencement of Work.
Last date & time of submission of tender	22/07/2016 at 12.00 Hrs. (IST)
Bid opening Date & Time.	22/07/2016 at 12:15 Hrs. (Part A & B)

Qualifying Requirements / Eligibility Criteria :

1. The bidder should have valid ISO 9001 certification as on date of bid opening.

2. Average annual turnover (AAT)

Tenderer should have Minimum average annual turnover (MAT) of **Rs.3,06,43,332.00**

- ⇒ 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 consecutive last three (03) years, ending 31st March of the previous financial year duly certified by CA.

3. Technical Capability :

Party 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 the amount equal to **40%** of the estimated cost. **OR**
- Two similar completed works each costing not less than the amount equal to **50%** of the estimated cost. **OR**
- One similar completed work costing not less than the amount equal to **80%** of the estimated cost.

Similar Work means : Work order/orders "having AMC of Pulverized coal fired multi fuel boiler and steam turbine for single unit of 55 MW and above and their auxiliaries like mill system, Fan system, Fuel firing system, H.P Valves, pump like Boiler Feed Pumps, Condensate Pumps etc. at least for one (01) year. The total value of the contract carried out by the party for AMC of Boiler & Turbine, even in separate work orders in a time frame of three (03) consecutive years (from the date of any 1st work order)

in last seven (07) years will be combined together. Work completion certificate (duly signed & stamped i.e. authenticated copy) to be provided.

4. Bidding through a consortium is not allowed.
5. Experience as subcontractor will not be permitted
6. In support of their eligibility and experience, the Tenderer is required to submit self attested photo copies of work orders, completion certificates (by the concerned 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.

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.)

7. The value of, work order(s) submitted by the bidder will be considered on pro rata yearly basis.
8. The bidder shall furnish authenticated copies of latest IT Return, Service Tax Registration, EPF certificate, ESI Certificate.
9. **The bidder must accept for finalization of rate through Reverse Action (RA) as per format given at Annexure-VIII.**

General Terms & Conditions:

- i) Offer shall be accompanied with Cost of the tender documents of **Rs. 3000.00** (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.

However Government organizations / Small scale industries registered with NSIC is not required to submit the cost of tender document subject to production of the documentary evidence like valid Registration certificate of the same item or group of item from appropriate Govt. Authority.

- ii) Offer shall be accompanied with Earnest Money Deposit (EMD) of **Rs.5,00,000.00 (Rupees Five lakhs) Only** in the shape of Demand Draft / Pay Orders / Bankers Cheque Payable at Bokaro Steel City // Bank Guarantee having validity for, one (01) year, 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.in**.

However EMD exemption wherever applicable may be availed of by Micro & Small Enterprises (MSEs) / PSUs / Govt. Undertakings and Co-operative Societies etc., as per Government policy. For MSEs, the exemption from EMD is to 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.

- iii) The undersigned reserves the right to either reject any / all the tenders without assigning any reason thereof & also reserves the right to alter the qualifying requirements.

Note:

1. Tender documents are to be downloaded from our Website: **www.bpscl.in** only.
2. Bidders are requested to visit our 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)

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 etc. marked with (Part-B) Techno-Commercial Bid, NIT No. & Date (*In hard copy*)
- 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 4: Click on **View Live Auctions and Tenders.**

Step 5: In the right side open/ global tenders link will be displayed.

Step 6: Click on the link for the above mentioned tender link present under Open tenders

Step 7: 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 scanned copy of System generated **acknowledgement-slip for Online submission of sealed price bid to be submitted along with EMD Bid or 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 150 (One hundred fifty) 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. Erasures, changes, and corrections of whatever type/nature shall be attested by the

- tenderer. The rates amount shall be written in Rupees and Paise only. The rates in words shall be written in one single line only without admitting any interpolations.
- 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 be 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 three (03) 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 Contractor 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. If so, the same shall be summarily rejected.
- 2.14 Tenders shall be accompanied by a copy of latest IT Return submitted, Service Tax Registration No. (if applicable) 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 Where a claim of Service Tax is preferred and admitted, the tenderer must satisfy that he is a registered contractor under Service Tax Act and possesses a Certificate of Registration in the firm's name in which the service is made and shall in proof thereof, while submitting bills for payment, furnish the number, date and other particulars of such Certificate.
- 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 Contractor 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 the tenderer quotes unworkable rate i.e. quoted rate of tenderer is lesser than 90.00% of estimated value and is considered for placement of work order, they/he 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 Guarantee (In prescribed format as available at our website: www.bpscl.in) issued by any Nationalized/Scheduled Bank in favour of Bokaro Power Supply Company (P) Limited. The amount of PBG will be equivalent to difference of 90% of estimated value and quoted value.
- 2.23 **FORCE MAJEURE** : Vendors / Contractor 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 of at the option of owner order may be cancelled without any liability what so ever on the part of the owner.
- 2.24 **RATE FINALIZATION:**
Rates will be finalized through Reverse auction among the techno commercially acceptable tenderers through our authorized service providers i.e. **M/s. Mjunction Service Ltd.** The tenderers have to submit their acceptance as per enclosed format at **Annexure – VIII & IX** along with their techno-commercial bid. The schedule and details of Reverse Auction event shall be communicated by our Service provider (**M/s. Mjunction Service Limited**) to the techno-commercially accepted bidders.
- 2.25 **The Parties should clearly indicate their prices firm in all respects till execution of the work order.**
- 2.26 In case of asking any variation on any account whether sales tax or Service tax, excise duty or transportation etc. (wherever applicable) will not be treated as firm price on that account and hence parties should state everything clearly.
- 2.27 **Special Instruction:** Tender will be opened on **22.07.2016 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 :

Introduction: In BPSCL TPP side comprises of 05 Russian boilers having capacity 220 T/hr each, 01 back pressure turbine having capacity 12MW and 02 condensing turbine having capacity 55 MW each. These boilers and turbines consists of equipments like Mill Systems, Fan systems, Fuel firing systems, different types HP/HT valves, Feed pumps, Condensate pumps etc.

A. SCOPE OF WORK

The scope of work involves Preventive and running / breakdown maintenance of Mechanical components as indicated and detailed except at the time of capital repair of any particular Boiler. You have also to execute the following jobs as per requirement.

1. Replacement of Gasket / attending leakages through Boiler drum manhole (Welding of joints are excluded).
2. Vibration monitoring and suggestion for improvement (Vibration monitoring equipment's as required to be supplied by BPSCL free of cost).
3. Manpower assistance in normalization and isolation of equipment's.
4. Cleaning of own generated debris after maintenance of any equipment's on regular basis & CGT of equipments.
5. General Purpose welding electrode, D.A, Oxygen (required for gas cutting job) required for execution of the job under scope of work shall be arranged by you.
6. Manpower Assistance from your existing manpower to be deployed for maintenance of EOT Crane inside TG hall.
7. Changing of Coal dust pipe lines wherever required.
8. Calibration certificates of all measuring equipments from those companies which are registered in NABL website. The calibrating person should have proper eligibility certificate.
9. All incidental items of work not shown or specified but reasonably implied and found to be necessary for successful completion of the work shall be deemed to be included in the scope of work at no extra cost of BPSCL.

B. EXCLUSION from scope of work:

- i. Painting, Thermal Insulation and sheet metal work.
- ii. House Keeping / Area Cleaning of ash, coal, coal reject etc. (except cleaning required to make approach to the equipment).
- iii. Insurance of equipments, other than workmen compensation insurance and 3rd party liability.
- iv. Machining of any nature.
- v. IBR Inspection / formalities with Boiler Inspector etc.
- vi. High pressure water jet cleaning & Sand / Shot / Ash Blasting.
- vii. Life assessment of any components.
- viii. Replacement / Repair of Main steam pipes and valves, Feed water pipes and valves, Pipes and valves above 250 mm dia. laying of new pipes etc.
- ix. Fabrication of any components.

C. INPUTS BY BPSCL (Free of Cost):

- I. All interchangeable spares and accessories.
- II. All machineries such as EOT Crane / Mobile Crane / Hydraulic Truck / Trailer / Trolley etc for movement of materials inside the plant subject to availability, vibration monitoring equipment as required.
- III. Compressed air, Special gasses, Special electrodes, All permanent consumables such as gaskets, gland packing, nut & bolts, anti seizing compound, grease, lubricants, coolants, special fasteners, 'O' ring, rubber chord, brazing rods, soldering materials, oil seals, bushes etc. shall be supplied by BPSCL.

- IV. Testing gadgets & special tools supplied by OEM, lifting tackles with monorails etc as installed originally.
- V. 24V and 220V AC power supply to the nearest point.
- VI. Machining of components. Steel structures, Steel plates, pipes, scaffolding materials.
- VII. Drawings and documents.
- VIII. Argon gas, Nitrogen gas if required.

SCOPE OF WORK (BOILER and TURBINE)

Day to day maintenance as per following identified areas as given below:-

- 1) Boiler and its auxiliaries Unit – I, II, III, IV & V.
- 2) Turbine and its auxiliaries Unit – I, II & III.

Itemized detail scope is given below:-

I. Scope of work for AMC of TPP Boilers and Auxiliaries (Unit # 1 to 5)

1. MAIN BOILER – TPP:

- 1. Removal of insulation (minor nature) for identification of defect what so ever.
- 2. Repair of refractory (minor nature).
- 3. Repairing of Manhole door as required.
- 4. Attending of flue gas leakages from furnace (Shell Plate Changing-up to 30 Nos /year) as and when appeared.
- 5. Servicing of boiler drum level indicating equipments.
- 6. Supervision of activities related to Boiler tube leakage during Boiler Shutdown.
- 7. NDT such as De-metering & DPT.

2. FUEL FIRING SYSTEM – TPP:

- 1. Attending of oil / gas / steam / PA leakage at firing floor.
- 2. Attending of PA piping leakage (from mill upto firing floor) by patch welding.
- 3. Arresting of flange leakage, replacement of gaskets – metallic / non-metallic.
- 4. Worn out coal pipe elbow replacement aggregating upto 10 (Ten) nos. per year.
- 5. Worn out St. coal pipe replacement aggregating upto 10 (Ten) Nos. per year.
- 6. Gasket or rope replacement as & when required.
- 7. Servicing of Burner Isolation Gate / damper as applicable.
- 8. Servicing Gate / dampers for correct open / close of flaps inside duct.
- 9. Oil burner maintenance.
- 10. Maintenance of oil lines / atomizing steam lines.

3. PIPING (Air/Water/Steam/Oil) AND VALVES – TPP:

- 1) Arresting of flange leakage, replacement of gaskets metallic / non-metallic.
- 2) Actuator setting.
- 3) Attending to welding leakages for pipes of sizes upto 76 mm (non IBR).
- 4) Cold valve checks/correction of hanger setting.
- 5) Valve/NRV maintenance.
- 6) Gland/flange leakage attending/gland packing replacement of all manual/actuator operated valves.
- 7) Valve/NRV servicing/lapping:
 - a) Upto 76 mm; HP/LP valves (IBR & Non-IBR)
 - b) Cutting & replacement of HP/LP valve upto 76 mm (IBR).
 - c) Cutting & replacement of LP valve upto 76 mm (non-IBR)

4. FD FANS – TPP:

Drive Unit (Motor) and Fan

1. Checking of Fan bearings (DE & NDE) and its clearances / conditions, tightness checking etc.
2. Replacement of motor coupling / fan coupling if found defective.
3. Replacement of bearings if found defective
4. Replacement of Shaft if found defective
5. Replacement of impeller if found defective
6. Replacement of oil seal / labyrinth seal as applicable.
7. Repairing of fan casing & duct by patch welding as required to arrest leakages.
8. Fan-motor alignment check/correction.
9. Attending to cooling water leakage.
10. Replacement of cooling water valves (1st valve-inlet and outlet of cooler) by Cutting and welding.
11. Attending expansion joint leakage by patch welding or other means as applicable.
12. Tightening of bolts as and when required.
13. Associated gate damper maintenance.
14. Changing of cooling coil after removal of housing.
15. Balancing of FD Fan.
16. Alignment of motor (As per the instruction of Engineer-In-Charge.).

5. I. D. FANS – TPP:

Drive Unit (Motor) & Fan:

1. Checking of Fan bearings and its clearances, tightness checking etc.
2. Replacement of oil gauge glass.
3. Tightening of housing holding down bolts.
4. Replacement of couplings – Motor / Fan and bearing of fan.
5. Replacement of bearing housings if found defective
6. Correction of coupling alignment.
7. Casing air leakage attending (patch welding) or by other means.
8. Oil seal / Labyrinth seal replacement / Leakage attending.
9. Attending to cooling water leakage. Cleaning of coolers.
10. Cooler dismantling, cooler element cleaning, hydro test of cooler if required.
11. Replacement of cooling water valves (1st valve-inlet & outlet of cooler) by cutting and welding.
12. Attending expansion joint leakage by patch welding or other means as applicable.
13. Associated gate damper maintenance.
14. Tightening of bolts as and when required.
15. Changing of explosion vents as and when required.
16. Alignment of motor (As per the instruction of Engineer-In-Charge.).

6. MILL FANS:

1. Tightening of all foundation bolts.
2. Checking of Fan bearings and its clearances, tightness checking etc.
3. Plate welding in vane.
4. Dynamic balancing of fans as and when required.
5. Arresting oil leakages and dust leakages from casing by patch welding or other means as applicable.
6. Replacement of Tyre coupling.
7. Attending to cooling water leakage. Cooler dismantling, cooler element cleaning
8. Alignment of motor (As per the instruction of Engineer-In-Charge.).

7. COAL DUST PREPARATION SYSTEM:

Raw Coal Feeder:

1. Checking / adjusting feeder drive mechanism.
2. Bearing replacement if required.
3. Replacement of gear box if required.
4. Replacement of bent scrapper.
5. Replacement of scrapper chain bundle.
6. Shear pin replacement as and when required.
7. Gear box internal repair as far as possible when required.
8. Dismantling & repairing of front & rear sprockets.
9. Cleaning of coal dust/debris etc.
10. Cutting & replacement of scrapper chain as required.
11. Inspection of scrapper chain.
12. Chain adjustment.
13. Repair/replacement of base plate and measuring plate.
14. Body patches repairing.
15. Gear box inspection & alignment.
16. Checking of gear box & replacement of gear box parts if found defective.
17. Alignment of motor(As per the instruction of Engineer-In-Charge.)
18. Schedule inspection & maintenance at least twice a day.

8. DRUM TYPE BALL MILL:

1. Alignment of drive mechanism (gear box, girth gear, pinion etc.)
2. Oil leakage attending.
3. Attending to cooling water leakages, valve changing as and when required.
4. Attending to lubrication system problems, cooler cleaning and greasing/oil top up.
5. Ball charging on regular basis.
6. Attending to hot air/PA leakages.
7. Cleaning of girth gear / Pinion for inspection of gear teeth.
8. Crack repair of Drum, girth gear, journal etc.
9. Greasing of pinion bearing.
10. Changing of tyre coupling or its parts as required.
11. Replacement of damaged explosion vent as and when required.
12. Bolt tightening & replacement.
13. Oil gauge glass oil flow checks through gauge glass/defect rectification.
14. Inspection of main bearing as required.
15. Fabrication and changing of cooling coil of gearbox.
16. Repair of suction / discharge chute after dismantling.
17. Alignment of motor, reducer & pinion (As per the instruction of Engineer-In-Charge.).
18. Preventive & corrective maintenance of each ball mill should be done at least twice a day.

9. COAL DUST FEEDER:

1. Greasing of feeder bush.
2. Checking of coupling and all bolts.
3. Shear pin replacement as and when required
4. Arresting of oil leakage & dust leakage.
5. Oil level checks & maintaining the same as per requirement.
6. Repair & replacement of gear box as and when required.
7. Repair & replacement of gear box worm wheel & worm shaft as required.
8. Changing of feeder bush, thrust bearing, feeder shaft as & when required.
9. Removal of feeder jamming.
10. Cleaning of foreign materials & coal by dismantling the feeder if required.
11. Alignment of motor (As per the instruction of Engineer-In-Charge.).
12. Schedule inspection & maintenance at least once a day.

10. FLUE GAS & AIR LINE DUCTS (Excluding ESP):

1. Repair of ducts & dampers (up to 100 m²/year for duct).

2. Changing of explosion vents as & when required.
3. Minor insulation work while attending leakage.

11. SLAG CONVEYOR:

1. Repair of gear box.
2. Changing texolite bearing.
3. Replacement of coupling & coupling bolts.
4. Attending leakage from slag bath.
5. Inspection & greasing of main bearing.
6. Oil pouring of gear box.
7. Alignment of motor (As per the instruction of Engineer-In-Charge.).

12. SLAG CRUSHERS:

1. Repair of gear box.
2. Changing texolite bearing.
3. Replacement of coupling & coupling bolts.
4. Attending leakage from slag bath.
5. Inspection & greasing of main bearing.
6. Oil pouring of gear box.
7. Alignment of motor (As per the instruction of Engineer-In-Charge.).

13. MILLING SYSTEM DAMPER AND PIPE LINES:

1. Patch repair as & when required to arrest leakage.
2. Damper rectification & replacement.
3. Maintenance of drive mechanism.
4. Maintenance of pipe lines from MILL to SEPARATOR to CYCLONE to MILL.

14. CYCLONE SEPARATOR:

1. Minor repair of separator/adjustment as required, repairing of any hole or crack developed on the body.
2. Positioning of on-off valve as required.
3. Cleaning of separator return line, separator angle positioning as and when required (at least once in seven days), servicing of separator angle changing mechanism.
4. Attending to flange leakage wherever appeared.
5. Explosion vent of the separator and cyclone replacement, if required.
6. Clearing of jamming on separator lines, coarse or fine line.
7. Attending to ruptured pipe or replacement of the defective portion as required.
8. Cleaning of cyclone and separator as required.
9. Internal inspection of separator as required.
10. Chocking removal of associated lines of cyclone & separator.

15. RAW COAL BUNKER:

1. Patch repair.

16. SCREW CONVEYOR:

1. Replacement of eroded bush, coupling bolt, coupling.
2. Alignment work.
3. Conveyor trough, cover plate placement, repairing of trough, in case of leakage.
4. Replacement of gear box and motor coupling as required.
5. Hanger replacement or repairing.
6. Repairing of screw flange failure.
7. Alignment of motor

17. CENTRAL LUB. OIL SYSTEM

1. Cleaning of oil filters and replacement of cartridge, if necessary.
2. Cleaning of oil tank / oil headers / inspection of oil pump / repairing or replacement of pump if required.
3. Attending oil leakage.

18. BALL FEEDING:

1. Ball charging regularly (including shifting of Ball) in Coal Mill in every day or as per direction of Site Engineer.

19. DOZING SYSTEM – TPP:

1. Attending to valve, flange & gland leakage.
2. Repair of phosphate batchers/pumps.
3. Repair of pipe lines.

20. Gas Line Jobs:

1. Supervision of maintenance of BF & CO gas line related jobs.
2. Supervision of maintenance of sector gate of BF & CO gas line.
3. Supervision of sector gate seal changing job.
4. Supervision and assistance in gas line charging & isolation and rubber seal changing.

21. Hydraulic Test of Boilers:

1. Assistance in pressure parts inspection & Hydraulic Test of the Boilers ..

II. Scope of work for AMC of TPP Turbine

1. Oil transfer system

- a. Oil top up in FOS oil tank after shifting oil drums from store to FOS.
- b. Oil transfer from FOS tank to ROT through pump.
- c. Maintenance of oil tank, oil pumps, filter cleaning and attending leakages through pipes and flange joints.
- d. Removal of empty drums from pump room to out side.

2. Oil Centrifuges (03Nos.)

- a. Cleaning of internals and externals of 03 Nos. of centrifuges on weekly basis.
- b. Inspection of these centrifuges, and changing of different spares, shaft, bearings, brake shoes etc.
- c. Attending leakages through centrifuges, flanges, valve glands.

3. Turbo generator #1

- a. Schedule inspection of 03Nos. of CTWT pumps on monthly basis. Bearing replacement, complete overhauling, gland packing, alignment of pump and motor.
- b. Attending leakages of CTWT pump tank.
- c. Attending to jet heater.
- d. Inspection and maintenance of its S.O.P, AC & DC Lub oil pump, cleaning of its duplex Lub oil filter, MOT filter and attending oil, water and steam leakages through different pump & flanges.
- e. Lubrication and inspection of gear boxes of L.P and H.P. side steam valves.
- f. Inspection of T/G, Servomotor, Control gear.
- g. Attending leakages of steam, water and secondary condensate of HPH 1A&1B.
- h. Attending leakages through drainages tanks (02 Nos.)

4. Turbo generator #2&3

- a. Inspection of control gear, load limiter, control valves, cam shaft, its rollers and replacement of its roller bearings.
- b. Arresting steam leakages through glands bonnets of valves and pipelines associated with TG set.
- c. M.O.T. filter cleaning bi monthly.
- d. Inspection of extraction NRV^S and defect rectification.
- e. Cleaning of PW filters.
- f. Maintenance of S.O. P, AC&DC Lub oil pump, AC& DC Seal oil pumps, seal oil coolers and associated (total No. of pumps 12Nos. and 02 Nos. seal oil coolers).

- g. Attending leakages of steam, feed water and secondary condensate of H.P and L.P. heaters & 3way valves.
 - h. Condenser inspection and plugging of leaking tubes.
 - i. Lubrication of valves.
- 5. Condensate pumps (04 Nos.) & Gas Cooler Lift Pumps (04Nos.)**
- a. Bearing inspection & replacement, if required.
 - b. Alignment of motor with respect to pumps.
 - c. Inspection of cooling water line and rectification of defects.
 - d. Gland packing of pump and valves associated with pumps.
 - e. Attending oil and other leakages.
 - f. Inspection of NRV^S.
 - g. Suction strainer cleaning.
 - h. Vibration monitoring.
- 6. Boiler Feed Pumps (06 Nos.)**
- a. Gland packing of pump and recirculation valve.
 - b. Bearing inspection and rectification/replacement.
 - c. Stuffing box inspection, testing and replacement it required.
 - d. Inspection of balancing disc and discharge sleeve checking of thermal gap, axial shift etc.
 - e. Filter cleaning.
 - f. Relief valve setting.
 - g. Attending oil leakages.
 - h. Vibration monitoring.
 - i. Decoupling and decouple trial run of its motor as and when required.
 - j. Pump coupling and alignment.
- 7. Deaerators (05Nos.)/L.P. Heaters (08Nos.)/H.P Heaters (08Nos.)/Steam ejectors (06Nos.)/drain ejectors (03Nos.)**
- a. Attending leakages through flanges, pipes/joints/ main of steam line, air lines /feed water lines/ secondary condensate lines/ main condensate lines.
 - b. Attending leakages through flange/ bonnet/ gland of different valves of size Ø25mm to Ø150 mm in all the 05 deaerators
 - c. H.P heater diaphragm leakages (Partial)
 - d. Deaerator outlet valves gland packing. BFP suction valves at 08 m and 13 m gland /bonnet/ flange leakage of size Ø300 mm.
 - e. Pressure and level balancing valves Ø300 mm and Ø250 mm sizes (10Nos.) gland/ bonnet leakage.
 - f. Deaerator glass replacement /cleaning of LP heaters.
 - g. HPH Expender 1A&1B leakage through valve / bonnet/ flange.
 - h. Lubrication of different valves.
- 8. HSPRDU (03Nos.)/ PRDU (04Nos.) and 100 ATA steam gate valves (35Nos.)**
- a. Attending leakages through gland / bonnet/ flange of valves installed in HSPRDU, PRDU and 100 ATA steam line (valve size Ø25mm to Ø250 mm).
 - b. CGT of all these valves for their smooth operation.
 - c. Welding of pipeline leakages of size less than 100mm.
 - d. Assistance in safety setting
- 9. Piping (air/ water/ steam/ oil/ circulating water valves.**
- a. Arresting of flange& gland leakage, replacement of gaskets metallic/ non-metallic.
 - b. Lubrication of actuator, valve steam at regular intervals.
 - c. Manual opening and closing operation of valves as and when required.
 - d. Attending to welding leakages for pipes of sizes less than 100mm.
 - e. Cold valve checks/ correction of hanger setting.
 - f. Valve /NRV maintenance:-
 - ❖ Gland leakage attending/ gland packing replacement of all manual / actuator operated valves.

- ❖ Valve/ NRV servicing.
 - ❖ Up to 250mm for HP&600mm for LP valves
- g. Cutting & replacement of HP/LP valve up to 100mm
 - h. Attending to valve gland leakage/ gland replacement.
 - i. Attending to leakage of flanges, unions of oil, water and steam system.
 - j. Spring support inspection and rectification.
 - k. Replacement of damaged springs.
 - l. C.G.T. of 04 Nos. of Ø600 mm valves at regular interval.
 - m. Arresting of leakages through inner and outer glands of HP steam and feed water valves.

10. Small Pumps.

- a. Scrubber pumps -03 Nos.
- b. L.T. Flush Pumps -03 No.
- c. Drainage transfer Pumps -02 Nos.
- d. Process water Pumps -02 Nos.
- e. Dirty Oil transfer Pumps – 05 Nos.
- f. Chemically treated transfer Pumps -03 Nos.
- g. Drain Pit Pump -06 Nos.
- h. Hydrazine Pumps -06Nos.

For the above pumps following are the regular maintenance jobs

1. General inspection of bearings and replacement if required.
2. Complete overhauling of these pumps (20Nos.)
3. Replacement of gland packing & alignment of pump and motor, tightening of foundation bolts.
4. lubrication of its different valves

Note: The above scope of work does not include the jobs found after shut down of the units for C/R.

SPECIAL TERMS & CONDITIONS :

1. For attending the job, you have to provide all categories of sufficient manpower for carrying out the job safely, timely and satisfactorily with necessary tools & tackles. The job is to be carried out on round the clock basis including Sunday & Holidays.
The category of manpower should be as follows:
Engineer (Must be degree in engineering having at least 05 years experience or Diploma in engineering having at least 10 years experience)
Supervisor (minimum 05 years experience in similar job)
Skilled worker / Technician
(Mill Right fitter, general fitter, HP welder, general welder, Rigger, specialized technicians etc.)
USW/Helper
2. For your workers, you have to arrange necessary gate passes against this order.
3. The approximate consumption of consumables is as follows.
 - a. Welding Electrode -- 300 Nos./day
 - b. DA -- 03 Nos./day
 - c. Oxygen -- 09 Nos./dayHowever this is for indicative purpose only & the party has to use the consumables as per actual requirements.
4. You should submit the total list of tools to be used by you before start of job.
5. All the lifting tools & tackles, slings, D-saicles should have proper safety certificate and copy of the same to be deposited to Engineer-in charge before start of the job.
6. All the measuring equipments should have calibration certificate from those companies which are registered in NABL website and the same to be deposited to Engineer-in charge before start of the job.
7. The party may engage subcontractors for engaging SW, USW, SSW and others with due approval of BPSCL.
8. In case the contractor engaging one or more sub-contractor (for part or whole of the scope of work) the subcontractor should be approved by Engineer in-charge. However the job will be done under the technical & administrative control of principal contractor.
9. The bidder shall furnish latest IT return, ST registration certificate, proprietorship/partnership documents along with the tender.
10. The contractor must have a PC and all daily progress & other reports should be filled in PC. At the instruction of Engineer in-Charge computerized report to be handed over to him.
11. You have to strictly comply with all safety rules & regulations.
12. All the working tools & tackles, men, material, welding machine etc., safety appliances like safety helmet, safety boot, hand gloves and personnel protection equipments are to be provided to the labours by you at your own cost.
13. As the area of work is highly sensitive with respects to safety hazards, you must have take proper work permit, shutdown clearance & other instructions from Engineer-in-charge daily starting the work you have to follow all the safety precautions & rules in this regard.
14. You will have to be fully responsible for any sort of unsafe activity of your workmen.
15. You will have to follow and observe the safety & statutory requirements.
16. Proper use of safety appliances, personnel protection equipments includes safety helmet, hand gloves, safety goggles, safety belt, safety shoes etc.
17. You have also to comply with labour Laws, Workmen compensation Act & ESI, EPF rules applicable in the plant area.
18. All taxes applicable will be deducted from your bills. Except income tax all taxes will be reimbursed.
19. You have to fulfill all the statutes of labour lows and regulations.
20. You will have to strictly adhere to the provision of various labour laws including payment of bonus Act 1965.

21. ***You shall have to pay an Amount of Rs 96.15 per day on actual attendance per month (not exceeding Rs. 2500/- per month) to the workers engaged by you in the job, as Additional Welfare Amenity (AWA) as per relevant circular / notification of BPSCL.***
22. During contract period there will be no consideration of idle & escalation charges.
23. Special conditions of contract in attached sheet may also be referred.

24. Penalty Clauses:

1. Job should be started within 21 days of issue of work order / LOI. Penalty of @ ½ % of contract value / week, maximum upto 5% of contract value will be deducted from bill.

2. Penalty as per below :

Sl. No.	Description of Cases in Which Penalty will be imposed	Penalty Amount
1.	If any breakdown remains unattended for more than 02 hours, penalty will be imposed as	Rs. 5,000/- per hour.
2.	If repetition of same breakdown occurs within 24 hours of maintenance due to poor workmanship, a penalty is to be imposed as	Rs. 5,000/- each for such failure case.
3.	Failure in carrying preventive/ schedule maintenance of HT & LT drives as per scope of work.	Rs. 5000/- per HT drive Rs.2000/- per LT drive
4.	Failure in assistance in pressure parts inspection and hydraulic testing.	Rs. 5,000/- for each case.
5.	Failure of submitting certificates like safety certificate, calibration certificate within 2 weeks start of the job.	Rs. 2000/- per day.
6.	Feed back of all maintenance job is to be given to the concerned officer on regular basis, failing which penalty of	Rs. 1,000/- for each such case.
7.	After completion of any job, site to be cleared, site should be made free of oil / dust / damaged spares etc. failing which the penalty is will be charged as	Rs. 1,000/- for each such case.

3. **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 service tax rate shall be submitted by the bidder. In case of refusal of 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 service tax Basis.**

Sl. No.	Job Description	Qty	Rate / Months (Rs.)	Amount for (For 12 months)
1.	Preventive, Running & Breakdown Maintenance of Mechanical Components of TPP Boilers & Turbines as per scope of work	12 Months		
Total				
Rupees:				

Note : Service Tax 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.

Solemnly affirmed & declared before me by Deponent(s) who is/are identified by	The declaration made herein above are true to the best of our knowledge, information and belief signed atOn..... Deponent(s)
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CHECKLIST TO BE FILLED BY CONTRACTOR 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.	* Service Tax Regn. No.			
8.	Turnover/ PL Sheet			
*If the agency is not under the preview of service tax 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 ()
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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 Supplier's Letter Head)

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

We _____ (Contractor Name)
having 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 BPSCCL control****Contractor'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 contractor 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 BPSCCL 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 contractor 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. Contractor 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 contractor 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 Contractor 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, BPSCCL shall exclude the concerned person from the site and take all other appropriate measures as deemed necessary. BPSCCL reserves the right to perform random drug and alcohol tests.
22. The Contractor shall immediately notify BPSCCL of any environmental incident, injury, illness, near-miss, unsafe condition or practice and any loss or damage to property, including incidents related to the Contractor Personnel. An investigation report assessing the root cause, corrective action, and preventative action shall be submitted by the Contractor to BPSCCL within 24-hours of the incident's occurrence.