BOKARO POWER SUPPLY CO. (P) LTD.

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

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

TENDER NOTICE NO.: BPSCL/MM/21-22/C-074/NIT-1028/2102 Dated 24/07/2021



TENDER DOCUMENT

NAME OF WORK: Annual Maintenance Contract of Electrostatic Precipitator (ESP) and Ash Handling (AHP) System of Boiler # 9.

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Bokaro Power Supply Co. (P) Ltd.

(A Joint Venture of SAIL & DVC)
Hall No: - M-01, Old Administrative Building,
Ispat Bhavan, Bokaro Steel City – 827001
Reg. Office: Ispat Bhawan, Lodhi Road, New Delhi – 110 003
CIN:U40300DL2001PTC112074

NOTICE INVITING TENDER

NIT No.: BPSCL/MM/21-22/C-074/NIT-1028/2102

For and on behalf of BOKARO POWER SUPPLY COMPANY (P) LTD, sealed tenders in two parts, Part - A: Earnest Money Deposit and Part- B: Technical & Commercial Offer with copy of system generated acknowledgement-slip for online submission of sealed price are invited from the bidders meeting the eligibility and qualifying criteria stipulated in the bidding documents for the following work at our Power Plant.

Description of Work	Annual Maintenance Contract of Electrostatic Precipitator (ESP) and Ash Handling (AHP) System of Boiler # 9.
Estimated Cost	Rs. 87,75,034.00
	(Rupees Eighty Seven Lakh Seventy Five Thousand Thirty Four Only) Excluding GST.
Earnest Money	Nil
	In lieu of EMD, the bidder shall submit either
	Bid Security Declaration as per clause 1.a of General Terms & conditions.
	OR
	Document for Exemption as per clause 1.b of General Terms & conditions.
Period of Contract	One (01) Year from the date of commencement of work.
Last Date & Time of submission of Tender	24/08/2021 at 12:00 Hrs. (IST)
Bid opening Date & Time	24/08/2021 at 12:15 Hrs.

Qualifying Requirements / Eligibility Criteria:

Financial Capability:

- 1. Bidder should have Minimum average annual turnover (MAT) of **Rs. 26.32 Lakhs** in preceding three (03) Consecutive Financial years.
 - Average annual turnover shall be determined taking into consideration turnover of 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.

Technical Capability:

- 2. Bidder should have experience of having completed **similar work** in India 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 offers are invited. Value of such work order shall be either of the following:
 - a. Three similar completed works each costing not less than to Rs. 35.10 Lakhs

OR

b. Two similar completed works each costing not less than to **Rs.43.87 Lakhs**

OR

c. One similar completed work costing not less than to Rs. 70.20 Lakhs

<u>Similar Work means</u>: Work order / orders which must include "AMC of ESP and Ash handling system". The total value of the contract carried out by the bidder which includes "AMC of ESP" and "AMC of Ash Handling System", even in separate work orders in last seven (07) years (ending last day of month previous to the one in which offers are invited) will be combined together and one work order each for "AMC of ESP" and "AMC of Ash Handling System" will be considered as one set. AMC means Annual Maintenance Contract of Mechanical and Electrical components.

• 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)

Date: 24/07/2021

- 3. The bidder must submit Satisfactory Work Execution / Completion Certificate(s) for the work (s) for which copy (copies) of work order (s) is (are) being submitted as given above issued by the competent authority.
- 4. 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) along with the techno-commercial bid. In addition, bidder shall submit a self declaration as per format at **Annexure-VI**.
- 5. The bidder shall submit self certified copies of the following:IT Return (*Latest*), Copy of EPF, ESI Certificate, Valid up-to-date Electrical license or Proof of application for renewal of the same, Partnership Deed / Affidavit for Proprietorship / Memorandum & Articles of Association, including changes in the Constitution of the Firm, (if any) and Copy of GST registration certificate).
- 6. The bidder shall submit acceptance for finalization of rates through Reverse Auction as per Annexure.

General Terms & Conditions:

- 1. Earnest Money:
 - a) In lieu of EMD, Bidders shall have the option of submitting a Bid Securing Declaration accepting that if they withdraw / modify their Bids during the period of validity without assigning any valid reason for the same or refuse to submit Performance Security / Performance Guarantee as per the relevant Clause of this tender enquiry or refuse to accept the price quoted by them in Online Price Bid / Reversed Auction within the period of validity of the same or refuse to sign the Contract Agreement upon emerging as the successful bidder, they will be suspended for a period of one year from being eligible to submit bids against tender enquiries of BPSCL. A Format of Bid Securing Declaration is provided at **Annexure X**.
 - b) Micro & Small Enterprises (MSEs) / PSU /Govt. Undertakings and Co-operative societies will be exempted from submission of Earnest Money as per government policy. For MSEs, the exemption from submitting Earnest Money will be granted only on submission of valid copy of Udyam Registration Certificate. SSI/NSIC certificate holders should also submit Udyam Registration Certificate. Further, unit claiming exemption is required to submit copy of Udyam registration certificate clearly indicating the item category for which they are registered.

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

- 2. Consortium bids will not be considered unless the provision for consortium is specifically mentioned in Tender
- 3. If you withdraw your bid after opening of bids without giving any satisfactory and acceptable explanation thereof, you shall be debarred from participating in any tender of BPSCL for a minimum period of 01 (one) year.
- 4. SUBMISSION OF PERFORMANCE GUARANTEE BOND FOR QUOTING UNWORKABLE RATE:

If you quote unworkable rates, i.e. if the quoted price is less than 90% of the estimated price and is considered for placement of order, you will be asked to justify the rate quoted. On non acceptance of justification / refusal of the same, you will be asked to furnish Performance Guarantee Bond in the form of Bank Draft/Bank Guarantee. The amount of Performance Guarantee Bond will be equal to the difference between 90% of estimated price and your quoted price. In case you refuse to give Performance Guarantee Bond, you will not be considered for participating in any kind of Tender for next 01 (one) year from the date of issue of letter to you, if order / contract is not finalised from the present tender.

In case of forfeiture of Performance Guarantee Bond, you shall be required to reimburse the applicable GST to BPSCL.

- 5. **RATE FINALIZATION**: BPSCL reserves the right to finalize the rate through either of the following modes:
 - a. Opening of Online Price (submitted on <u>www.buyjuntion.in</u>) submitted at the time of techno-commercial bid
 - b. Through Reverse Auction to be conducted by our service provider M/s. mjunction.

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

6. **BPSCL** reserves the right to:

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

(A.K. Das) GM I/c (MM) Tel: 8986874119

Email: purchase.bpscl@gmail.com

Conditions & Rules to be observed in submitting Tenders

1.01 Manner of Submission of the Tender

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

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

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

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

* PROCESS FOR ONLINE SUBMISSION OF SEALED PRICE:

1. Online sealed Price Bid (% above / % below) through URL: http://www.buyjunction.in

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

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

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

New Users:

Steps to get your User ID and Password

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

Existing Users

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

Bidding Procedure

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

Steps to accept the "Auction terms":

1. Click on "Auction Terms".

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

Steps to Submit Price Bid

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

6a. For Template Bidding

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

6b. For Non-Template Bidding

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

Steps to take a print-out of the receipt

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

Note: For any clarification on the bidding process please contact

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

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

Ms Bingyasini Pradhan – 9163348173 – <u>pradhan.bingyasini@mjunction.in</u>

Ms. Priyanka Muzumdar – <u>mazumdar.priyanka@mjunction.in</u>

Mr. Mukesh Kumar Singh- 8873002741 - mukesh.singh@mjunction.in

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

1.02 Tender Validity Period

Validity of the offer shall be **Four (04) months** from the bid opening date. In case of extension of "Bid Submission / Opening Date", the validity will be counted from the extended bid opening date.

1.03 General Instructions:

i) You shall have to quote price in any of the two options given below:

Percentage ABOVE with respect to Total Estimated Cost excluding GST OR

Percentage BELOW with respect to Total Estimated Cost excluding GST

- a) If you do not quote price in terms of percentage or quote in more than one option, your offer will be rejected.
- b) In the tender schedule at the place where you have to quote PERCENTAGE, 'above' will mean mathematically positive and 'below' will mean negative.

- c) The Lowest-1 (L-1) Bidder will be the one whose PERCENTAGE is mathematically lowest and all other Bidders will be ranked/termed as Lowest-2 (L-2), Lowest-3 (L-3) and so on, in the increasing order of PERCENTAGE quoted by them.
- ii) You are requested to visit site for actual assessment of the job before submission of offer.
- iii) You shall clearly indicate that your quoted prices shall remain firm in all respects till execution of the work order.
- iv) Any conditional offer or offer having deviations is liable to be rejected.
- v) You have to submit Tender document bearing your signature and seal on all the pages along with Techno-Commercial Offer / consent on NIT's Terms & Condition. Otherwise, it will be presumed that you do not accept our terms and conditions and this may lead to rejection of your offer forfeiting your claims if any.
 - You are advised to mention page no. on each page of documents submitted by you. BPSCL shall not bear any responsibility in case of any loss of documents submitted by the bidder during tender opening or thereafter.
- vi) If you are a Firm or Company, then you shall, in the forwarding letter, mention the number and names of all the partners & shall sign before submitting the same, unless the Power of Attorney holder has specifically been authorized in this respect.
- vii) Price or any indication of price shall **NOT** be mentioned in the Techno-Commercial Bid.
- viii) The sealed tenders received will be opened on scheduled opening date and time in the office of Material Management, in presence of such bidders who might choose to witness the same
- ix) 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.
- x) Communication regarding date of Opening of Price-Bid to individual communication to the technocommercially eligible bidders will be sent only to their e-mail address given in the tender documents.
- xi) Offers from two or more bidders shall summarily be rejected if they have any of the following parameters in common:
 - a) Same PAN
 - b) Same GST Number
 - c) Same Postal address
 - d) Same E-mail ID
 - e) Same Mobile number
 - f) Same person signing in more than one offer/representing more than one bidder.
- xii) BPSCL reserves the right either to reject any/all the tenders without assigning any reason thereof.

GENERAL TERMS AND CONDITIONS

- 1. You are requested to visit site for actual assessment of the job before submitting of your offer.
- 2. You shall make yourself fully conversant with the actual site condition, nature of subject job(s) to be executed and terms and conditions of contract, cost of all the input materials and facilities, cost of labor, transport, incidentals, royalties etc. or any other taxes and duties before submitting the tender.
- 3. You will have to arrange necessary Gate Passes for your workmen.
- 4. You will have to deploy proper category of manpower for execution of the job.
- 5. You have to comply with all labor laws, ESI Act, EPF rules & AWA rules applicable in the Industry.
- 6. You will have to strictly adhere to the provision of various labor laws including Payment of Bonus Act 1965.
- 7. **Payment Default Clause:** You must ensure that payment is made to the workers as per provisions of Payment of Wages Act and CLC norms failing which BPSCL shall make payments to concerned workers directly. The amount so paid along with 15% of Administrative cum Service charge shall be deducted from any of the concerned Contractor's bill. If the provision of Payment of Wages Act is not adhered to second time, the Contractor shall be liable for banning of business dealing with BPSCL as per procedure in Vogue. Such Contractor shall not be permitted to work in BPSCL through sub-contracting also for the banning period.
- 8. You have to pay your workmen as per circular / notification published by the State Government in regard to rates of payment of VDA in vogue.
- 9. You will have to pay an additional amount of **Rs.4**/- to every worker engaged by you for the subject work over and above their daily minimum wages, as per BPSCL rules.
- 10. **AWA CLAUSE:** You shall have to pay an amount of Rs 96.15 per day on actual attendance per month (not exceeding Rs 2500/month) to the workers engaged by you in this job as Additional Welfare Amenity (AWA) as per relevant circular/notification of BPSCL.
- 11. You shall execute the work in compliance with the provisions of contract and contract Technical Specification and/or design drawings furnished by BPSCL in terms of the contract and as per codes and standards specified therein, wherever applicable.
- 12. Supervision of the work is your responsibility. Inspection of executed work will be done by Site Engineer/BPSCL.
- 13. If situation demands, you will have to execute the work round the clock.
- 14. After completion of work, Engineer-in-charge or his representative will review the work(s), you will have to rectify any defect, if found, at no extra cost.
- 15. You shall remove all debris, surplus materials, etc., if any, and dump the same at place as directed by the Engineer-in-charge.
- 16. All the applicable taxes will be deducted from your bills.
- 17. During contract period there will be no consideration for idle & escalation charges.
- 18. You will be fully responsible for any sort of unsafe activity of your workmen and all your workmen should be trained for operational safety and to avoid fire hazards of Power Plant and must have proper safety certificates issued by BPSCL before start of work.
- 19. You will have to follow and observe the safety & statutory requirements and comply with all safety rules & regulations applicable in the plant area as per Booklet of Safety rules for BPSCL contractors. If you are not having that booklet, same may be collected from the safety department with a request letter.
- 20. For working at height, you shall produce medical fitness certificate for your workmen. Height passes to be obtained from safety department, if required.
- 21. All the working tools & tackles, men, material etc. and safety appliances like personal protection equipment are to be provided to your workmen by you at your own cost. All safety appliances of reputed make are to be provided by you to your workmen in presence of Safety Officer of BPSCL. The list and make of safety appliances may be obtained from safety office.
- 22. In case any documents/information submitted by you are found to be false or containing any misrepresentation or having any fraudulent declaration in it then in such eventuality EMD will be forfeited and legal action (including cancellation of contract, banning of business dealing, criminal proceedings etc.) as deemed fit may be initiated by BPSCL against you.

23. GST RELATED CLAUSES:

- a. You should quote GST as extra. If not mentioned in offer it will be considered as extra.
- b. You have to pass on the tax benefit/savings, if any, on account of output taxes to BPSCL.

- c. You shall agree to do all things not limited to providing GST invoices or other documentation as per GST Law relating to the above Services, payment of taxes, timely filing of valid statutory returns for the tax period on the Goods and Service Tax Portal etc. that may be necessary to match the invoice on GSTN common portal and enable BPSCL to claim input tax credit in relation to any GST payable under this agreement or in respect of any part under this agreement.
- d. In case the Input Tax Credit of GST is denied or demand is recovered from BPSCL on account of any non-compliance by you, including non-payment of GST charged and recovered, you shall indemnify BPSCL in respect of all claims of tax, penalty and/or interest, loss, damage, costs, expenses and liability that may arise due to such non-compliance. Further, in case of any differential tax liability on account of any wrong classification/valuation etc. by you, BPSCL will not be liable to reimburse any part of such differential tax, interest, penalty etc. It will be your responsibility to discharge appropriate taxes, as applicable.
- e. You have to maintain high GST compliance rating track record at any given point of time.
- 24. **Banning of Business Dealings:** On arising of any situation or occurrence of any event as mentioned in Clause 6 of the Guidelines on Banning of Business Dealings, you shall be liable for action under and in accordance with the aforementioned Guidelines. The "Guidelines on Banning of Business Dealings" shall form part of the Tender/Contract and can be viewed on our website www.bpscl.com.
- 25. **RISK AND COST:** Failure on your part to start the work within reasonable time/ the progress of the job is poor/ for any breach of contract will entail termination of the Contract. In such an event, the job will be executed at your risk and cost by alternate arrangements.
- 26. **SAFETY CLAUSE:** You shall be liable for penalties mentioned below for violation of safety norms:
 - i. Up to Rs.5000/-by Head of safety Engineering Department /Head of the Department where work is being done for 1st violation of safety norm, non-use of PPEs (Personal Protective Equipment) 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.
 - ii. Fine up to Rs. 20,000/- on 2nd Violation as mentioned in clause (i) above
 - iii. 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.
 - iv. Fine up to 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).
 - v. 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.
 - vi. 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 order in case any Fatal accident occurs due to violations as mentioned in Clause (i) and (iv) above.
- 27. **FORCE MAJEURE:** You shall not be considered in default if delay occurs due to causes beyond your control such as acts of God, natural calamities, civil wars fire, strike, frost, floods, riot and acts of unsurpassed power. Only those causes which have duration of more than seven days shall be considered in force majeure clause. In the event of delay due to such cause the delivery / completion period will be extended for a length of time equal to the period of force majeure without imposition of LD at the option of BPSCL.

28. Work accident

- a. You will be fully responsible for the safety of the workers employed by you. In the event of any work-accident, major or minor, your representative must take care of the injured person immediately and provide him the required treatment as suggested by the doctor. If you or your representative is not available for medical care, the injured worker will be treated in Bokaro General Hospital and the cost of treatment will be recovered from you.
- b. You shall be fully responsible for making payment of compensation to your own workmen 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.

29. You shall also maintain all records/register/return/cards such as:

- i) Register of workmen employed by contractor
- ii) Employment card
- iii) Muster Roll
- iv) Register of wages-cum-muster roll
- v) Submission of Return
- vi) Order book

Scope of Work:

- A) Part A: Maintenance and Assistance in Operation of ESP & AHP.
- B) Part B: Maintenance & Assistance in Operation of C&I system of ESP & AHP.
- C) Part C: Electrical maintenance & assistance in Operation of ESP & AHP.

A) Part A: Maintenance and Assistance in Operation of ESP & AHP

1. Scope of work under maintenance activities of ESP-

- a) Routine inspection and maintenance including short shutdown.
- b) Daily Inspection & Maintenance of ESP.
- c) Maintaining Inspection log book.
- d) Repair, maintenance (daily & preventive), replacement of damaged items/spares of ESP (including electrical equipment but excluding repair/calibration of instrumentation) to maintain outlet emission below 50 mg/Nm³.
- e) During short shut down, repair, replacement and alignment of following items shall be carried out as required:
 - i. Dome valves & its internals along with hoppers.
 - ii. Collecting electrodes.
 - iii. Emitting electrode
 - iv. Shock Bar and accessories.
 - v. Hammer assembly of collecting & emitting electrodes.
 - vi. Collecting and emitting rapping shaft with bearing and all accessories.
 - vii. G.D Screen at inlet and outlet of ESP.
 - viii. Hopper Heater & Insulator Heater.
 - ix. Thermostat, Earthing Rod, Rapping programmer.
 - x. Dust level switch with probe.
 - xi. Geared Motor for collecting and discharge electrodes.
 - xii. H.T. Isolator.
 - xiii. Silica Gel replacement.
 - xiv. Replacement of the damage parts of heater panel, control panel and MCC and maintenance of the same
 - xv. Electrical Hoist.
 - xvi. Solenoid valve and Pressure switch.
- f) Maintenance & replacement of damaged items/ spares of specific instruments viz. "CO" Gas Analyzer, Opacity monitor, Bar Graph Indicator, Dust-Level Switch, Rapping Programmer, ESP Controller, Temperature Transmitter, Pressure Transmitter etc. However cost of visit of vendor's representative/ service engineer, if required, for repairing/calibration of Opacity mater, CO Analyzer, TR Set, TR Panel, TR Controller and Rapping Programmer will be borne by BPSCL (Cost is inclusive of up & down fare, local transportation, lodging & boarding, service charge, incidental expenses, if any, etc.)
- g) Isolation and grounding of all ESP Fields from high voltage side in case of shutdown / for attending fields defect.
- h) To maintain Lighting of the area for proper illumination.
- i) To keep ESP drain area clean and Painting of connecting pipe lines along with proper housekeeping & cleaning of the ash handling & ESP area.

2. <u>Preventive, Running & Breakdown Mechanical Maintenance of following Equipments of Ash Handling System:</u>

a)	Ash Slurry Pumps	-	03 Nos.
b)	HP Vertical Water Pumps	-	02 Nos.
c)	LP Vertical Water Pumps	-	02 Nos.
d)	Seal Water Pumps	-	02 Nos.
e)	Make Up Water Pumps In Pump House No.: 03	-	02 Nos.
f)	Air Compressors	-	03 Nos.
g)	Air Receivers	-	02 Nos.

- h) Two Root Blowers 02 Nos.
 i) Rotary Van Feeders & (02 Nos.) Two Hydro Ejectors at Silo System 02 Nos.
 j) Ash conditioner & 01 no unloading spout at silo system 01 No.
- k) Vertical Drain Sump Pumps at Silo System
 Vertical Drain Sump Pumps at Bottom Ash Hopper of Boiler
 02 Nos.
 02 Nos.
- m) Feed Gates of Bottom Ash Hopper of Boiler 02 Nos.
- n) Clinker Grinders of Bottom Ash Hopper of Boiler 02 Nos.
 o) APH Ash Hoppers and Associated Ash Conveying Mechanism, Lines & Valves 02 Nos.
- p) Economizer Ash Hoppers and Associated Ash Conveying Mechanism, Lines & Valves. 04
- q) Silo of 5000 M3 Capacity & Associated Dry & Wet Conveying Lines, Valves including dome valves & plate valves & Dampers 01 No.
- r) All Compressed Air Lines in ESP & Ash Handling System including replacement of ash conveying lines.
- s) HP Water Lines, LP Water Lines, Seal Water Lines, Firefighting Lines In ESP & Ash Handling System.
- t) All Associated Gates, Valves & Dampers of Ash Handling System.
- u) Air dryers 02 Nos. v) Bagging machines. - 02 Nos.

Detailed Scope of Work for following Equipments:

1) Air Compressors:

a) Valve Maintenance.

- i). Valve Dismantling.
- ii). Valve Cleaning.
- iii). Inspection & Reconditioning of Valve Plates, Springs & Spring Plates & Seats.
- iv). Re assembly & Installation Inspection.
- b) Compressor Piston and Cylinder Inspection & Maintenance.
- c) Bearing Inspection & Replacement, if required.
- d) Crankshaft, Connecting rod, Bearings & Crosshead Inspection & Maintenance.
- e) Cleaning of Air Filters & Lub Oil Filters.
- f) Inspection & Maintenance of 02 (two) Air Driers.
- g) Back Washing of Water Cooled Heat Exchangers.
- h) Periodical Cleaning of Heat Exchanger Tubes by suitable Brushes.
- i) Oil Top up as per the requirements.
- j) Complete Replacement of Used oil with Fresh Oil, if required.
- k) Maintenance of Air Lines and Water Lines and Associated Valves.
- l) Tightness checking of 'V Belts' and Replacement of 'V Belts, if required.

2 Make Up Water Pumps (02 Nos.)

- a) Proper Lubrication & Tightness Checking
- b) Inspection & Maintenance of Coupling, Replacement whenever required.
- c) Bearings Inspection & Replacement, whenever required.
- d) Gland packing, whenever required.
- e) Inspection & Maintenance of Sleeve Couplings.
- f) Inspection & Maintenance of Suction & Discharge Valves along with Replacement, if required.
- g) Repair of Suction & Discharge Pipelines along with Replacement, if required.

3 Ash Slurry Pumps (03 Nos.)

- a) Lubrication to be done properly.
- b) Inspection of V Belts Tightness, Wear & Replacement, whenever required.
- c) Attending any leakages, if found.
- d) Bearing Inspection & Replacement, whenever required.
- e) Inspection & Maintenance of cross over valves along with replacement, whenever required.
- f) Inspection & Maintenance of Sleeve Couplings.
- g) Inspection & Maintenance of Suction & Discharge Lines & Valves along with Replacement, whenever required.

4 HP & LP Water Pumps (04 Nos.)

- a) Proper Lubrication & Tightness Checking of Bolts.
- b) Inspection of Coupling & Replacement, whenever required.
- c) Attending Gland Leakages, wherever & whenever observed.
- d) Inspection & Replacement of Bearings, whenever required.
- e) Inspection & Maintenance of Non Return Valve (NRV) along with Replacement, whenever required.
- f) Inspection & Maintenance of Suction & Discharge Pipelines.
- g) Inspection & Maintenance of Suction & Discharge Line Valves along with Replacement, whenever required.

5 Seal Water Pumps (02 Nos.)

- a) Inspection of Coupling & Tightness of Bolts.
- b) Inspection of Pipelines & Repairing.
- c) Lubrication of Bearings.
- d) Inspection & Replacement of Bearings, whenever required.
- e) Repair of Pipelines, valves at Suction & Discharge along with Replacement, whenever required.

6 Drain Sump Pumps (04 Nos.)

- a) Inspection of Couplings & Tightness checking of Bolts.
- b) Inspection of Delivery Valves.
- c) Inspection of Suction along with Strainer, whenever required.
- d) Inspection & Replacement of bearings, whenever required.
- e) Short period Breakdown Maintenance Including Replacement and Repair of Shaft, Sleeve, Bush etc.

7 Root Blowers (02 Nos.)

- a) Inspection & Maintenance of Gear Box, Oil Level checking, Top up.
- b) Inspection of V Belts Tightness & Replacement, when required.
- c) Inspection & Maintenance of Heater associated with the blower etc.
- 8 Bottom Ash Hopper, ESP Ash Hopper, APH Ash Hopper, Economizer Ash Hopper & Chimney Ash Hopper: Inspection of the said Hoppers at Regular Intervals, whenever required and repairing the same.

9 Ash Silo System (01 No.) along with Rotary Vane Feeders (01 No.), Ash Conditioner & Unloading Spout (01 No.)

- a) Inspection & Maintenance of Bag Filters at Silo Roof and Replacement, whenever required.
- b) Inspection & Maintenance of Rotary Vane Feeders along with Replacement of Bearings & Chain, whenever required.
- c) Inspection & Maintenance of Ash Conditioner.
- d) Inspection & Maintenance of Unloading Spout & Replacement, whenever required.
- 10 <u>Dome Valve Assembly Including PD Pumps, Plate Valves & Blow Valves</u>: Inspection & Routine Maintenance of the Said Items and Replacement of spares, whenever required at different areas of ESP Fields (A1 A6) and (B1 B6), APH and Outlet Flue Hopper Area.
- 11 <u>Associated Conveying Lines, Bends, Water Lines, Gates, Valves & Dampers : Inspection & Maintenance of Ash Conveying Lines, Air Lines, Water Lines, Comprising of Gates, Valves, Dampers, bends etc., and Replacement, whenever required.</u>

• During Short Shut Down Condition:

The following items will be inspected and compared with the Normal condition and if necessary replacement of spare parts:

- a) All associated equipments like compressors, Root Blowers, dryers, Hydro Ejectors, Jet Pumps RVFs, and related pumps.
- b) Knife gate valves, pipes, bends and pneumatic valves.

• Note:

- The above is only an indicative list and is not exhaustive. Any other equipment which is not covered in the above list but which is an integral part of ESP & AHP shall be in contractor's scope.
- Preventive or Breakdown maintenance job should not be left unattended.

Assistance in ESP operational activities.

- a) Setting of voltage, current as and when required.
- b) Operation control of rapping mechanism.
- c) Charging/Isolation of fields when needed.
- d) Removal of chocking of hoppers.
- e) Maintaining Log book for recording shift activities & parameters.
- f) Coordination with Boiler operation.
- g) Draining of hoppers & removal of any foreign material from the hopper.

3. Assistance in Ash handling operational activities.

- 1. Starting of two Nos. of compressors for supply for supply of compressed air.
- 2. Preparation for Bottom Ash Hopper Deashing, opening of valves.
- 3. Starting of HP water pump, LP water pump and seal water pump one by one.
- 4. Starting the Clinker Grinder and operation of feed gate valve.
- 5. Starting of Ash slurry pump.
- 6. Process of bottom Ash hopper Deashing and transportation of ash slurry to Ash pond.
- 7. Preparation for silo Deashing, opening of valves to silo & closing of HP Valves at bottom ash Hopper.
- 8. Opening of plate valves at silo for transfer of ash.
- 9. Starting of rotary valve feeder with hydro ejector for conveying ash slurry to sump.
- 10. Transportation of ash slurry from sump to ash pond through ash slurry pump.
- 11. Conveying of dry ash from ESP hopper to silo through pipes in pipe and then to ash pond from sump by ash slurry pumps.
- 12. Operating of bagging machines.
- 13. Operation of air dryers.

Part B: Maintenance & assistance in Operation of C&I system of ESP & AHP.

The jobs under scope of work are to be carried out during preventive maintenance and as and when required on instruction of engineer in charge. The objectives shall be overall supervision for healthiness of the instruments of above said areas to minimize the breakdown, minimize the down time to avoid generation loss and to ensure maximum availability for the instruments covered under this AMC.

1. Field Instruments:

Cleaning/ Checking/servicing/ calibration / repairing at site where ever possible/ replacement with new ones after getting it issued from BPSCL site store as and when required, along with their associated cables (including compensating cables) up to Marshalling cabinet in Control room through field JB(s) of the following types of field instruments with their own tools (general and special).

- 1) RTDs, T/C and temperature scanners.
- 2) All types of Pressure, Temperature, Differential Pressure, Flow, Level and Position Transmitters.
- 3) All types of Pressure, Temperature, Differential Pressure, Flow, Level, limit and Position switches.
- 4) Solenoid valves Air filter regulators, Lubricators, Power cylinder, actuators of Pneumatic valves and associated limit switches.
- 5) Pressure, Flow, Temperature, level and D. P. Gauges.
- 6) Copper / SS Tubing.
- 7) Impulse lines including SS tubing (from root valve up to Instruments). (Purging, arresting of leakage, arresting of passing through drain/ isolation valve etc including welding wherever required).
- 8) Radar level Transmitter, Ultrasonic level and flow transmitters.
- 9) Purging, Draining (both periodical and as & when required) of impulse lines related to the instruments covered under AMC.
- 10) All field instruments in **ESP area** including DLI's, pneumatic actuators, temperature, pressure transmitters and associated cabling.

- 11) All field instruments, solenoids, actuators and associated cabling related to AHP compressor
- 12) All field instruments, control room instruments and associated cabling related to Pump House No.: 03.

2. Control Room Instruments (Day to Day Maintenance including Cleaning):

- 1. Indicators and annunciation systems at UCP (All types).
- 2. Cleaning of UCP, PLC panels and other instrument panels in control rooms.
- 3. Maintaining paper/ ribbon / cartridge in printers of PLC system.
- 4. Regular cleaning of OWS, EWS and printers.
- 5. Computers and PLC panels & Modbus server: Maintenance including work assistance to BPSCL Engineers during troubleshooting.
- 6. PLC system under the ESP area and Modbus communicators of different ESP fields.
- 7. Scope of work also included the work assistance to BPSCL Engineers during Simulation checking for Healthiness of LT drives inter-lock and protection logic, OLCS pertaining to C&I system of ash handling plant, ESP and Pump House # 3.
- 8. Shifting of the materials / spares from main store to site store is also included in the scope of work.
- 9. Short term overhauling work assistance is also included in the scope of work.
- 10. All electrical accessories / cabling/ wiring associated with C&I system including Distribution panel, earthing of various equipments / desks/ panels / cabinets / JBs /etc as when required.

C) Part C: Electrical maintenance & assistance in Operation of ESP & AHP. Scope of Work for ESP:

- 1) Maintenance of electrical drives of ESP & assistance in operation of fields, its AC system & other drives in order to ensure adherence to norms of dust emission and continuous evacuation of Fly Ash & Bottom Ash in dry & wet form.
- 2) Inspection, preventive maintenance& medium repair of electrical motors (Emitting rapper, collecting rapper, GD rapper etc., Total- 14 Nos. approximately) including motors for air blower through ducts & observing temperature, current, vibration monitoring of drives along with thorough cleaning both externally and internally up to the extent possible using vacuum cleaner, blower, marking cloth and cleaning agents of recommended grade and quality.
- 3) Cleaning of insulators, tightening of power cable connections and setting right of all other defects as detected inside the motor terminal box. Maintenance & replacement of heaters (support, shaft, hopper etc.), insulators (support, shaft etc.), if necessary.
- 4) Maintenance of all PDBs, MCCs, ACBS (20 Nos.) LDBs, DCDBs, Electronic EPIC controller module, interfacing between field parameters with DCS etc. including associated protection systems, relays, CTs, PTS, control wiring, cabling, cable trays, earthing system& illumination aspects etc. with entire illumination of ESP sub-station and Control Room.
- 5) Periodical inspection and preventive maintenance of TR Sets (12 Nos.), oil topping, breather silica gel, bushing insulators, marshalling box, transformer panel, rectifier sets, inspection & replacement of insulator housing etc. as required.
- 6) Observance of no load test of transformers & reviewing performance parameters.
- 7) Check & maintain direction of rotation of shaft, emitter rapper motors etc. & maintaining the required power supply to all valves, AC & drives.
- 8) Inspection & preventive maintenance of PLC of ESP to ensure power to PLC.
- 9) Regular monitoring & reporting of all electrical parameters & readings.
- 10) Including preventive maintenance of equipments, following jobs to be attended by you:
 - i. Housekeeping and cleaning of ESP drives.
 - ii.Collecting Electrodes.
 - iii.Emitting Electrodes.
 - iv.Ash Hoppers.
 - v. Hopper Heaters.
 - vi.Collecting Plates & Rapping Mechanism.
 - vii.Emitting Electrodes & Rapping Mechanism.
 - viii.TR Sets.

For AHP:

- 1) Round the clock assistance in maintenance of electrical drives of AHP.
- 2) Inspection & preventive maintenance of electrical motors (Ash Slurry Pumps, HP & LT Water Pumps, Seal Water Pumps etc.), air blower motor & observing temperature, current, vibration

- monitoring of drives with thorough cleaning both externally and internally to the maximum extent using vacuum cleaner, air blower, markin cloth and cleaning agents of recommended grade and quality.
- 3) Tightening of power cable connections and setting right of all other defects as detected inside the motor terminal box.
- 4) Maintenance of all PDBs, MCCs, ACBS (17 Nos.) LDBs& its illumination, DCDBs etc. including associated protection systems, relays, CTs, PTS, control wiring, cabling, cable trays, earthing system & illumination aspects etc. with entire illumination of AHP (MCC room to Ash Silo).
- 5) Inspection & preventive maintenance of PLC of AHP (ash handling plant) to ensure power to PLC.
- 6) Regular monitoring & reporting of all electrical parameters & readings.
- 7) preventive maintenance and medium repair of electrical auxiliaries of:

<u></u>	
1) Ash Slurry Pumps (03 Nos.)	10) APH Ash Hoppers
2) HP Water Pumps (02 Nos.)	11) ESP Ash Hopper
3) LP Water Pumps (02 Nos.)	12) Chimney Ash Hopper
4) Seal Water Pumps (02 Nos.)	13) Ash Silo System
5) Drain Sump Pumps (04 Nos.)	14) Compressed Air Receivers
6) Air Compressors (03 Nos.)	15) Silo fluidizing blowers & heaters
7) Clinker Grinders (02 Nos.)	16) Rotary Vane Feeder & Hydro Ejector drive
8) Bottom Ash Hopper	17) All associated electrical Gates, Valves & Dampers
9) Economizer Ash Hopper	18) Air dryers
	19) Bagging machines.

SPECIAL TERMS & CONDITIONS:

1. Minimum manpower to be deployed on daily basis including Sunday and Holidays (i.e for 365 days)

a. Mill Wright Fitter
b. Diploma Supervisors
c. Skilled Workers
d. Un Skilled Workers
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Apart from the above, one no. Site in – charge shall have to be deployed on daily basis, excluding weekly off days (i.e. for 313 days)

2. **VDA Clause**: During operation of the contract, if there is an upward revision of minimum wage, VDA by the appropriate Government, contractor shall be entitled to reimbursement of such additional amount (wherever applicable) on actual basis subject to production of documentary evidence.

The base date for VDA reimbursement shall be Bid Opening Date or RA Date or Revised Offer Date (in case of negotiated prices), whichever is later.

Note: VDA reimbursement not applicable for Millwright Fitter and Site in charge.

- 3. If situation demands, contractor has to execute the work round the clock as per the instruction of Engineer in charge.
- 4. <u>Inputs by BPSCL (as free supply)</u>: Following materials/ equipment shall be supplied by BPSCL as free supply as per requirement:
 - a. EOT crane, Mobile crane, Truck and Fork lift.
 - b. Compressed air, electricity and water.
 - c. All types of spares needed to be replaced during the repair work of various Electrical and C&I equipment and systems.
 - d. Special Welding electrodes viz: CIElectrodes and SS electrodes.
 - e. Grease, lubricants, nuts & bolts, Gaskets, O-ring.
 - f. Gaskets, insulating varnish, grease, sealants, lubricants, transformer-oil, 'O' Ring, rubber chord, oil seals, nuts and bolts, paints, thinner etc as per the requirement.
 - g. Steel plates, pipes, angles and channels GI pipes etc.
 - h. Power and control cables, lugs, glands, HT tape and lug-crimping tools etc.
 - i. Machining facilities as available in area repair shop of BPSCL.

5. Tools, Tackles, Safety Equipment, Instruments & Consumables to Be Supplied by the Contractor:

Following materials shall be supplied/arranged by the contractor at his own cost:-

- a. Fitter hand-tools set.
- b. Electrician hand tools set (electrically insulated and tested).
- c. Industrial Gases & welding Electrodes,
- d. Gasket compound,
- e. Paints along with all tools & tackles
- f. Chain pulley block.
- g. Gas cutting set, Welding machine, welding cable and accessories.
- h. Wire rope, slings and 'D' shackles (these should be tested regularly and fitness certificates obtained).
- i. General type consumables such as cotton waste, K. Oil, diesel, markin cloth, LT tapes and emery paper etc.
- j. Testing kits and measuring instruments to carry out the maintenance, repair and parameters measurements of the Breakers and other equipments successfully as described in details under the head 'Scope of work'.
- k. Meggers of different voltage levels of different voltage levels (500V & 1KV) for measuring the insulation values.
- 1. Earth-resistance measuring megger.
- m. Transformer-oil BDV measuring kit.
- n. Temperature measuring gun to monitor the temperature of the feeder & the equipments of indoor switchgear.
- o. Cold & hot air blowers.

- p. General as well as electrical safety wears appliances & equipments to be used by your employees.
- q. Special purpose tackles working tables & approach platform including insulated Aluminum platform ladder etc.
- r. Grinding machine.
- s. Drilling machine with full set of bits.
- t. Thread making taps.
- u. Hand trolleys.
- v. Soldering & brazing kits.
- w. Stationary items for systematic & presentable record-keeping and carrying out routine work on daily basis.
- x. General as well as personal safety wear appliances and equipment to be used by the employees of the contractor.
- y. All measuring and testing devices like multi meter, loop calibrator, megger (500V) etc needed to carry out given work pertaining to C&I section.
- z. Electrician hand tools complete set (electrically insulated and tested).
- aa. Welding machine, welding cables and accessories like welding helmets and heat insulated hand gloves etc.
- bb. Hacksaw frame with blades.
- cc. Special tools like bearing-puller, thread making taps.

6. Quality Assurance Plan:

- a. The maintenance & repair work of indoor switchgear equipments will be done as per the details describe in the 'Scope of work'.
- b. In addition to the details described in the 'Scope of work', 'Check-list forms' will be supplied which are to be strictly followed for carrying out the repair work. Different data and details will have to be recorded in the 'Check-list form' and got it counter signed by the site- engineer to ensure the required quality of the job performed.
- c. After the maintenance and repair work is over, the operation of the breaker will be checked up manually and electrically and also the operation of auxiliary contact and glowing of indication lamps to ensure the required quality of the job performed.
- d. Values of contact resistance, condition of insulating oil and insulation resistance of different parts etc. will be checked and results so obtained will be recorded in the 'Check-list'.
- e. Temperature of different parts of switchgear equipments, noted down during temperaturemonitoring exercise, should be recorded properly and produced before the site engineer.
- f. There will be a six months guarantee clause to ensure the right quality of workmanship in carrying out the repair job. If a repair fails within the next six months of doing it, you will be held responsible for it in addition to carry out its repeat repair free of cost.
- g. Different test norms and test results must confirm to the values as prescribed by the manufacture or as enumerated in the related IS specifications.
- h. All items of work shall be executed in accordance with laid down standard practices of the IS codes, as the case may be.
- i. Electrical safety guidelines and provisions of electricity rules must be given due regard while executing the job.

7. Payment Terms:

97% of contract value will be paid on pro-rata basis duly certified by Engineer In-Charge and balance 03% will be retained as security deposit which will be released after satisfactory execution of order.

The expression satisfactory execution of the order shall mean fulfillment of all obligations arising out of and in connection with the Contract. In case of default in satisfactory execution of the order, the security deposit shall be forfeited.

Amount of penalty and/or Liquidated Damages imposed (if any) will be recovered from Bill / Security Deposit. If the amount of Bill / Security Deposit is not sufficient, the bidder will be required to pay the balance amount to BPSCL. If you do not pay the balance amount, the same shall be deducted from any sum or sums which may be due or may become due to you from BPSCL on any account whatsoever.

8. Penalty Clause:

- a. If dust emission goes beyond 50 mg/Nm³ due to poor workmanship, a penalty @ Rs.2000/ day will be imposed till the achievement of norms.
- b. In case of poor cleanliness of ESP floor, a penalty @ Rs.1000.00 every time will be imposed.
- c. Two compressors out of three installed compressors should be available for operation all the time. In case of break down, the compressor should be made available for operation within 72 hours failing which a penalty of Rs. 500/hr. will be imposed till the compressor is made available. Also, in case of failure of two compressors a penalty of Rs.500/Hr will be imposed.
- d. If any field trips due to high level of ash in hopper, a penalty @ Rs.1000/- per instance will be imposed.
- e. All Gear boxes of rapping mechanism both in collector & discharge side should remain available. If any breakdown occurs and repairing does not require shut down, it should be made available within 48 hours, failing which a penalty @ Rs.500 /gear box/hour will be imposed.
- f. All fields of ESP should remain available. Any breakdown in any field ,which can be attended without taking shutdown of boiler should be attended within 24 hours failing which a penalty @ Rs.300/-per hour will be imposed.
- g. Ash Handling System-Penalty clause is applicable in following cases:
 - i) Poor availability of equipments-At least two ash slurry pumps, one H.P. water pump, One L.P. water pump, one seal water pump and one fluidizing air blower should be available at all times. In case of non-availability of three ash slurry pumps, both H.P. water pumps, both L.P. water pumps, both seal water pumps & both fluidizing air blowers at all the times, a penalty will be imposed @ Rs.300 per hour.
 - ii) Delay in overhauling /major repair of all pumps: Time allotted for normal overhauling =96 hours. Beyond 96 hours, a penalty @Rs.100 per hour will be imposed till the completion of jobs.

h. Penalty for manpower

- a. In case of non-availability of Site in charge/Engineer, a penalty @Rs.1000 per day will be imposed in addition to deduction of Rs.1500 / day for short supply.
- b. In case of non-availability of Millwright fitter, a penalty @ Rs.500 per day will be imposed in addition to deduction of Rs.1000/ day for short supply.
- c. For supplying less manpower than the minimum indicative manpower mentioned above, a penalty of Rs. 200.00 per man day will be imposed in addition to deduction of BPSCL wage rate (as on bid opening date/RA date/Revised offer date (in case of negotiated prices) whichever is later) for respective category of manpower.

PRICE BID / RA FORMAT

Special Instruction –

1. In the event of L1 Bidder backing out prior to placement of order, the bidder shall be suspended for a period of 01 (one) year from the date of issue of suspension order.

2. Price Basis: L1 bidder will be decided on mathematically lowest percentage.

Sl.	Description of Job	Duration	Total Estimated Cost	To be quoted by
No.			(excluding GST)	Bidder
1.	Annual Maintenance Contract of Electrostatic Precipitator (ESP) and Ash Handling (AHP) System of Boiler # 9. (As per Scope of work)	12 Months	Rs. 87,75,034.00 (Rupees Eighty Seven Lakh Seventy Five Thousand Thirty Four Only) Excluding GST.	Online Price Bid (% above / % below with respect to Total Estimated Cost excluding GST) through URL: http://www.buyjunctio
				n.in

Note:

- 1. Goods & Service Tax: EXTRA as applicable
- 2. Please provide following details:

1.	GSTIN	
2.	Service Accounting Code No.	
3.	Applicable GST Rate	
	CGST (in %)	
	SGST (in %)	
	IGST (in %)	

Signature with seal of tenderer

Self Declaration

	Ison/daughter of Shri
	resident of
1.	I am the authorized representative and signatory of M/s
2.	All document(s) submitted/ information provided by M/s
	Bid Document submitted against Tender No
	dated
	for(
	Name of work) has/have been submitted under my knowledge and are authentic, genuine and true. No part of the document(s) / information is false, forged or fabricated.
3.	The above declaration in respect of genuineness of the documents/ information has been made having full knowledge of provisions of bidding conditions which entitle the Owner/BPSCL to initiate action in the event of such declaration turning out to be a false.
4.	I undertake to produce all documents in original for verification as and when asked for the same by BPSCL.
	(Name & Signature of Authorized person):
	Designation:

CHECKLIST TO BE FILLED BY BIDDER EXCEPT REMARKS:- All documents which are required for fulfillment of 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.

CHECKLIST OF DOCUMENT SUBMITTED BY TENDERER

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

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	(Add:	ress)
agree to all the Commercia	al, General & other Terms & Co	onditions listed in the	
NIT No		dated	_
for the work of			
(Name of work) through R			
	position to do the job as per the so- uction and abide by the rules.	ope of work given in NIT/RFQ. We agree to	
	whose details are given below, to p		
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)

10,			
mjunction serv 1 st Floor, Tata 43, Jawaharlal Kolkata – 700	Centre Nehru		
Fax: 033 – 22	88 327	9	
Ref: Reverse	Auctio	n forfor Bokaro P	ower Supply Co. (P) Ltd. held on
		e hereby confirm our Market wisefor Bokaro Power Supply	e last quoted prices in the Reverse Auction held on Co. (P) Ltd., Bokaro Steel City.
Market No.		Last Quoted Percentage	
		To be submitted by the L-1 Bidder only after finalization of RA	
We also confin Auction.	m that	we will submit item wise price brea	x-up, within two working days from the date of Reverse
Signature	:		
Name	:		
Designation	:		
Date	:		

Format for Bid Securing Declaration (In lieu of EMD)

Date:	
Tender Enquiry no.:	
To The GM In-charge (Material Management Bokaro Power Supply Company (P) Ltd. Hall No. – M 01 Old Administrative Building ISPAT Bhawan, Bokaro Steel City)
I/We*, the undersigned, declare that:	
I/We* understand that, according to your of Earnest Money Deposit.	conditions, bids must be supported by a Bid-Securing Declaration in lieu
are* awarded the Contract and I/We* fail within the bid validity period without ass Security / Performance Guarantee as per quoted by me / us* in Online Price Bid or sign the Contract Agreement, I/We* will I for all future Contracts.	or modify my / our* Bids during the period of validity, or if I am /We I to honour my /our* offer by way of either withdrawing my / our* bid igning any valid reason for the same or refusing to submit Performance relevant Clause of the tender enquiry or refusing to accept the price Reverse Auction within the period of validity of the same or refusing to be suspended for a period of one year from being eligible to submit Bids Declaration shall cease to be valid if I am / We are* not the successful e Order against the tender enquiry.
Signed	in the capacity of
Name:	
Duly authorized to sign the Bid for and on	behalf of:
Dated on day of	
Corporate Seal (where applicable)	
[Note: In case of a Joint Venture, the Bid Strenture that submits the Bid.]	Securing Declaration must be in the name of all partners to the Joint
* Please delete as appropriate	

ENVIRONMENT, HEALTH AND SAFETY

EHS (Environment, Health and Safety) Clause for contracts where overall site is under BPSCL control Your Responsibilities

You 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 you should be of internationally recognized standards. All tools and tackles bought by you for use during the contract period should have proper and valid certification by competent authority.
- 8. All lifting equipment, tools and accessories provided by BPSCL should be maintained and returned by you 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. You must ensure that all machinery and equipment 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 equipment/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. You must ensure optimum use of water with minimum wastage.
- 15. You shall ensure that the work area is kept clean, tidy, & free from debris. You are 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 your 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. You and your 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. You 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 your personnel. An investigation report assessing the root cause, corrective action, and preventative action shall be submitted by to BPSCL within 24-hours of the incident's occurrence.