

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-072/NIT-591/3310

Dated 23/06/2016



TENDER DOCUMENT

NAME OF WORK: Annual Maintenance & Operation of ESP and ash Handling Plant including operation & maintenance of Dredge Pump House Equipments: Dredge Pump House – I (TPP)

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

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Bokaro Power Supply Co. (P) Ltd.

(A Joint Venture of SAIL & DVC)

Hall No: - M-01, Old Administrative Building,

Ispat Bhawan, Bokaro Steel City – 827001

NOTICE INVITING TENDER

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Date: 23/06/2016

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 & Operation of ESP and ash Handling Plant including operation & maintenance of Dredge Pump House Equipments: Dredge Pump House – I (TPP)
Estimated Amount (in Indian Rs.)	Rs. 1,23,32,847/- (Rupees One Crore twenty three lakhs thirty two thousand and eight hundred forty seven) only excluding Service Tax
Earnest Money (in Indian Rs.)	Rs. 1,00,000/- (Rupees One lakh) 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 and extendable for another one year on satisfactory performance.
Last date & time of submission of tender	29/07/2016 at 12.00 Hrs. (IST)
Bid opening Date & Time.	29/07/2016 at 12:15 Hrs. (Part A & B)

Qualifying Requirements / Eligibility Criteria :

1. The Bidder should be an ISO 9001 Certified Company, while submitting the Tender.

2. Average annual turnover (AAT)

Tenderer should have Minimum average annual turnover (MAT) of **Rs.1,84,99,270.00**

⇒ 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:

a. Three similar completed works each costing not less than the amount equal to **40%** of the estimated cost. **OR**

b. Two similar completed works each costing not less than the amount equal to **50%** of the estimated cost. **OR**

c. One similar completed work costing not less than the amount equal to **80%** of the estimated cost.

Similar work means: "Annual operation & maintenance contract of ESP and Dredge (ash slurry) pump house of Boiler of any thermal power plant. The total value of the contract carried out by party for AMC& operation of ESP & DPH, even in separate work order 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 [one each of ESP & DPH] and will be considered as one set. One such set will be required to qualify 3(c), two sets for 3(b) and three sets for 3(a).

4. 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 competent authority etc.) along with the techno-commercial bid. In addition, bidder shall submit an affidavit as per format at **Annexure-VI**, declaring that the documents submitted by them are genuine.

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.)

5. The value of, work order(s) submitted by the bidder will be considered on pro rata yearly basis.
6. Bidder having credential as Sub – Contractor will not be considered.
7. Bidder as a Consortium is not allowed.
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.1,00,000.00 (Rupees One lakh) 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.

- iii) All pages of the tender documents, conditions, specifications & all enclosures must be signed with seal of the company at the lower left hand corner by the tenderer before submission of the tender.
- iv) If the intending tenderer is a Firm or Company, then they shall, in the forwarding letter, mention the number and names of all the partners & shall sign before submitting the same, unless the Power of Attorney holder has specifically been authorized in this respect.
- v) If any tenderer withdraws his tender before its acceptance or refuses within a reasonable time without giving any satisfactory and acceptable explanation thereof, the tenderer shall be disqualified for making any tender of the BPSCL for a minimum period of one year and the Earnest Money will be forfeited.
- vi) **Handling of Earnest Money:**
 - a) Earnest Money will be refunded to the un-successful tenderer after finalisation of tender and no interest will be paid for the same. Bidders are requested to provide Bank Details for refund of EMD.
 - b) The amount of Earnest money will be adjusted against Security Deposit only in case of successful Tenderer.
- vii) In case the date of tender opening happens to be holiday, the tender will be opened on the next working day at the same time.
- viii) **Any conditional offer or offer having deviations from our qualifying requirement, specification & instruction sheets is liable to be rejected.**
- ix) BPSCL reserves the right either to reject any/all the tenders without assigning any reason thereof.

General Terms and Conditions

- 2.01 Bidders are requested to visit the site before submission of the bid to get acquainted with actual site condition.
- 2.02 You will have to follow and observe the safety & statutory requirements.
- 2.03 You will have to fully responsible for any sort of unsafe activity of your workmen.
- 2.04 All working personnel should have proper safety certificates issued by BPSCL before start of work.
- 2.05 Supervision of the work has to be carried out by the agency.
- 2.06 Work is to be carried out as per instruction & satisfaction of the Engineer-In-Charge.
- 2.07 Rates are to be quoted on firm price basis. Any conditional offer is liable to be rejected.
- 2.08 In case of any documents/information submitted by the bidder(s) found to be false or containing any misrepresentation of having any fraudulent declaration in it then in such eventuality legal action (including cancellation of contract, banning of business dealing, forfeiture of EMD, criminal proceedings etc.) as deemed fit may be initiated by BPSCL against the bidder.
- 2.09 **Payment Terms :**
90% of contract value will be paid on pro-rata basis on progressive jobs duly certified by Engineer In-Charge and balance 10% will be retained as security deposit which will be released after six (06) months of satisfactory execution of work.
- The expression satisfactory execution of the order shall mean fulfillment of all obligation arising out of and the guarantees stipulated in the contract. In default at satisfactory execution of the order the security deposit shall be forfeited to the BPSCL.
- Any penalty for which the successful tenderer shall be found liable or any liquidated damages which shall be payable to the BPSCL in terms of the Contract, shall also be recoverable by the BPSCL from the Security deposit. If such security deposit will not be adequate for the purpose of liquidating the amount of penalty and/or damages as contemplated, the amount in excess thereof shall be deducted from any sum or sums which may be due or may become due to the successful tenderer from the BPSCL on any account whatsoever.
- Notwithstanding what has been stated above if the successful tenderer shall have duly performed all his obligation under and the guarantees stipulated in the contract and observe all the terms and conditions thereof and no penalty shall have been recoverable from him and / or the BPSCL shall not have suffered any damages whatsoever, then security deposit shall be refunded, on receipt of a certificate from the Engineer in - charge that there is no claim against the Successful tenderer under the Contract.
- 2.10 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 (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 **29.07.2016 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 Work :

A. Annual Maintenance: Maintenance contract may be divided into following two parts:-

- a. Daily Maintenance
- b. Preventive Maintenance

❖ Electrostatic Precipitator:

1. During running condition: Following items will be inspected and rectification work shall be carried out by the party:

- a. Functioning of Heaters: - Support Insulator Heaters, Shaft Insulator Heaters, Hopper Heaters.
- b. All Rapping Drive Motors.
- c. Oil level in Geared Boxes Programmer frequency for each field.
- d. Exiting setting of Rapping Programmer frequency for each field.
- e. Function of ash evacuation / dust disposal arrangement.

2. During short shut down condition: the following items will be inspected and rectified and if necessary replacement of spare parts shall be carried out by the party.

- a. Dust build-up on electrode surface. This will help in assessing Dust properties towards resistivity, stickiness, and moisture content. Effect of rapping impact.
- b. Voltage gap between collecting and discharge electrode.
- c. Voltage gap between charged and earthed body.
- d. Tit bits repairing of related Instruments, T/R sets, and its control panel.
- e. Replacement of T/R sets if found defective. Ground crane facility shall be provided by BPSCL.

3. Physical condition of Following & rectification of the defects accordingly :

- a. Collecting Electrode.
- b. Discharge Electrode.
- c. Gas Screen.
- d. Rapping Mechanism wear & tear.
- e. Hammer Assembly.
- f. CI Bearing Block.
- g. Shaft Assembly.
- h. GD Screen (inlet and outlet).
- i. Shock Bar.
- j. Insulators – dust deposit and crack, if any.
- k. Any other mechanical disturbance which will lead to possible low power input/voltage buildup.

4. Ash Handling System:

1. During running condition, the following items will be inspected and compared with the normal condition and rectification work shall be carried out by the party.

- a. Preventive / Daily maintenance of Pump with priming, compressor and dryer except motors.
- b. Sequential Ash Slurry operation and drainage to ash slurry trench.
- c. Knife gate valves, ejector and other accessories.
- d. Hopper choking.
- e. Solenoid valves functioning.
- f. Water pressure.

2. 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. Nozzles, Ejectors and other associated equipment's like compressor, dryer and pumps.
- b. Knife gate valve and pneumatic valves.

3. Outlet Emission Measurement Tests: In order to ascertain the present level of emission, this is to be measured for each unit. This will be the main criteria for taking decision about internal

inspection of ESP, recommend for rectification and fine tuning to bring down emission level to desired level. However you shall carry out one-outlet emission measurements per year for each Boiler unit to monitor emission level and calibration assistance for opacity Monitor. (The same will be done in one time and just after annual overhauling of the unit). Regarding the services to be rendered by you the following services are to be done.

Sl. No.	Type of Service	Plant Status
1.	Internal inspection for assessment of equipment healthiness.	Shutdown
2.	Shutdown maintenance supervision.	Shutdown
3.	Maintenance Assessment of operation condition.	Running

4. Scope of Work for ESP Operation:

- a. Continuous monitoring of all running equipments of ESPs of Boiler # 1 to 5, round the clock.
- b. Draining of all ESP hoppers time to time to avoid appearance of any high level signal in any of the hoppers.
- c. Regular loggings of all important parameters are to be note down shift wise in a separate logbook.
- d. Close co-ordination with shift in-charge Boiler is to be down in every shift and any abnormality is to be communicated to S/I, Boiler.
- e. Operational personnel should always abide by the instruction of respective Boiler shift in-charge.
- f. All operational safety norms are to be followed strictly.
- g. All sorts of mechanical as well as Electrical isolation (wherever necessary) and normalization of equipments are to be done before & after all the maintenance jobs respectively.
- h. Proper co-ordination with maintenance counterparts are to be down regularly for liquidation of any defect (Mechanical, Electrical and Instrumentation).

5. Scope of Work for Running Equipments:

- i. Maintenance of ESP's and Ash handling systems except slurry pump house connected with Boiler No. – 1 to 5.
- ii. Any Breakdown/ Maintenance will be attended by you during operational condition of plant.
- iii. Overhauling of each compressors at least once in a year.
- iv. Overhauling of each Ash water pump at least once in a year.
- v. Replacement of damage water/air pipes or tubes within battery limit.
- vi. Calibration assistance for all related instruments to ESP and Ash handling system like DLI, Recorder, Co-analyzer, Pressure Transmitter and opacity Monitor.
- vii. All types of tools and tackles, measuring instruments along with calibration certificates have to be supplied by you for the job.
- viii. Clearing of hopper jamming and chute choking of ash handling system at ESP area.
- ix. Maintenance of crane as per requirement.
- x. Provision and maintenance of lighting systems within battery limit.
- xi. Cleaning of ESP area, platforms, roof, compressor house etc. on regular basis.
- xii. Disposal of generated scrap to the scrap yard.

6. BATTERY LIMIT:

- a. ESP inlet flange.
- b. ESP outlet flange.
- c. ESP hopper area.
- d. Compressor, Dryer, Pumps and Opacity Meter, Co-Analyzer and Recorder.
- e. Mcc (input power supply to Mcc shall be ensured by BPSCL).

Note: Battery limit of electric will be at incoming supply of MCC

B. Dredge Pump House – I Scope of Work:

1. **Technical:** The Scope is divided in three categories as detailed below:
 - ✘ **Operation:** Dredging pump and its components shall be operated as per existing laid down practiced adopted by BPSCL, O&M manual and all other documents shall be handed over to you free of charges.
 - ✘ **Running and Breakdown Maintenance:** Running and breakdown maintenance shall be carried out on daily basis deploying manpower, hand tools and general consumable such as electrodes, gas etc. Execution of work/deployment of manpower shall be in accordance to the need and shall be decided in consultant with Engineer In-Charge.
 - ✘ **Overhauling of Dredge pumps:** Overhauling of pumps whenever necessary.
2. **Scope of Work:** The Scope of work involves operation of Dredging Pump House – I, running / breakdown maintenance and overhauling of pumps, valves & other mechanical components (04 Nos. pumps, valves & discharge pipe lines inside pit) within the boundary limit of sludge water compartment, pipe lines upto discharge valve situated in pump house, removal/replacement of HT/LT motors and disconnection and reconnection of termination only.
Rewinding, varnishing etc of motors are excluded from the scope of work.
3. **Battery Limit:**
 - Sludge Water Compartment.
 - Dredge pumps discharge valves inside the DPH.
 - Pipelines inside the house & up to discharge valves within Power house building.
 - Pumps, valves, NRV etc. within power house building.
 - Shifting of material up to the connecting road for transportation.
4. **Works Involve:**
 - a. 04 Nos. of Dredge Slurry Pumps
 - b. Valves of different sizes within Battery limit of DPH, discharge pipe line (within BB limited)
 - c. 01 No. Ejector.
 - d. 01 No. Submersible pump.
 - e. Motors of all above Pumps which involves lifting, shifting, placement and alignment.
5. **Scope of Work (Mechanical)**
 - a. Daily inspection, round the clock operation and routine maintenance including short shut down of above equipments.
 - b. Maintaining inspection log book.
 - c. Keeping normal level of connecting channels.
 - d. Filter cleaning of channel & ventilation system.
 - e. Illumination system within battery limit.
 - f. Co-ordination with BPSCL representative in all shifts.
 - g. Running maintenance in general shift and if required round the clock.
 - h. Repair, maintenance (daily & preventive) replacement of damaged items/spares of all electrical & mechanical equipments inside pump (excluding repairing & maintenance of motors & EOT Crane) valve and pipe lines.
 - i. During routine maintenance, repair, replacement and alignment of above equipments shall be carried out as required.
 - j. Normal charging and isolation of systems which included pumps, pipe lines etc.
 - k. Change over of pumps.
 - l. Dewatering of pits.
 - m. Removal of choking of sludge compartments.
 - n. Replacement of damage bearings of pumps.
 - o. Replacement of damage items/spares of pump house.
 - p. Routine works like greasing of bearings, gland packing of pumps and valves.

- q. Servicing/replacement/commissioning of pumps by experts including major overhauling of pumps.
- r. Maintenance and repair of dewatering pumps.
- s. Alignment of rotary system.
- t. Cleaning of equipment surface from outside with BB limit.
- u. Removal of scraps generated during work and shifting the same to scrap yard of BPSCL.
- v. Cleaning of house working area minimum thrice daily.
- w. Painting of equipments and pipe lines & structures within battery limit.
- x. Provision of technical backup from HO if necessary.
- y. Overhauling of pumps as per requirements.
- z. Replacement of pipes, bends, header within battery limit by fabrication of the same.
- aa. Replacement of Dredge Pump assembly as a whole as per requirement.
- bb. Maintenance of overhead crane as per requirement

❖ **Scope of Work (Electrical):**

1. 6.6 KV HT Motors:

- a. Motor cable disconnection / reconnection, decoupling, removal of foundation bolts, removal and loading of motors on truck by mobile crane, replacement of defective motor by new one. Motor alignment, power cable connection and decoupled T/R of motor. Coupling of motor for service.
- b. Inspection, cleaning and greasing of motor bearing with grease gun, power cable relugging, taping by HT insulator tape, changing of motor terminal insulators and its box in case of break down, cleaning, maintenance and associated repair work of its control switch and indication panel lamp holders etc. maintenance and replacement of emergency stop P.B as and when needed.

2. 440 V LT Motors of pumps and valves:

- a. Maintenance, inspection, cleaning and greasing of motor bearings, cable disconnection/reconnection, repair and relugging of power cable replacement and alignment of motors, repair of foundation frames whenever needed, maintenance of motor operated valves and their limit switches maintenance of GVDC control panels.
- b. Provision and maintenance of lighting and welding supply system including 24V network.
- c. Provision and maintenance of lighting systems within battery limit.

3. Deployment of Resources:

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:

Site-In-Charge- (Must be degree in engineering having at least 05 years experience)

Engineer (Must be degree in engineering)

Supervisor (Diploma)

Supervisor (Non Diploma)

Skilled worker / Technician/Operator

(Mill Right fitter, general fitter, HP welder, general welder, Rigger, specialized technicians etc.)

USW/Helper

2. You have to provide all type of **Industrial Gases & welding Electrodes along with all tools & tackles, welding machine, grinding machine, cutting set, chain pulley block etc.** required for the job.

SPECIAL TERMS & CONDITIONS :

1. For attending the job, you have to provide all categories of manpower with necessary tools & tackles.
2. For your workers, you have to arrange necessary gate passes against this work order.
3. You have to strictly comply with all safety rules & regulations of BPSCL. All safety appliances of reputed make are to be provided by you for you workers in presence of DGM (P&C) & Safety Officer of BPSCL. The list and make of safety appliances may be obtained from safety officer.
4. The area is very hazardous, workmen has to work with all safety precautions. Safety of the workmen & the equipment will be entirely your responsibility.
5. Work is to be carried out as per instruction & satisfaction of the Engineer – in – charge.
6. You will have to follow and observe the safety & statutory requirements.
7. Proper use of safety appliances, personnel protection equipment, should be ensured by you / your supervisor. Personnel protection equipments include safety helmet, hand gloves, safety goggles, safety belt, safety shoes etc.
8. You have also to comply with Labour laws, ESI Act & EPF rules applicable in the plant area.
9. All taxes applicable will be deducted from your bills.
10. If situation demands, you have to execute the work round the clock as per the instruction of Engineer In-Charge.
11. You have to fulfill all the statutes of labour laws and regulations.
12. ***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.***
13. During contract period there will be no consideration of idle & escalation charges.
14. **Subletting:** You may deploy subcontractors with approval of BPSCL authority, but please note that engagement of subcontractor for the work will not relieve you from any of the responsibilities & liabilities fixed up through this work order. You may engage skilled and unskilled workmen through your approved sub vendors, who will work under the Technical supervision and administrative control of Site in charge, engineers and supervisors, deployed by you only. Labour license, CLC clearance etc to be obtained by the subcontractors under the responsibility of contractors.
15. **Exclusions:**
 - a. Any major modification / overhauling of ESP.
 - b. Any cables repairing, replacement to the ESP and Ash handling system.
 - c. NDT, (Such as DPT, UT, MPI etc.)
 - d. Life assessment of any components.
 - e. Maintenance of building and civil works.
16. **BPSCL will provide the following, free of cost,** as per requirement for job execution.
 - All Spares.
 - Water.
 - Power & Compressed Air.
 - Laboratory facility for instruments testing / measuring and calibration purpose as per availability.
 - All interchangeable BOF spares and accessories.

- All machinery's such as Mobile Crane / Hydra, Truck/Trailer/Trolley etc. for movement of materials inside the plant subject to availability, vibration monitoring equipment as required.
- All permanent consumables such as gaskets, gland packing, nut & bolts, ant seizing compound, grease, lubrication oil, 'o' ring, rubber chord, brazing rods, soldering materials, oil seals, bushes etc. shall be supplied by BPSCL.
- Testing gadgets & special tools supplied by OEM, lifting tackles with monorails etc as installed originally.
- 24V power supply to the nearest point.
- Machining of components, steel structures, steel plates, pipes, scaffolding materials.
- Drawings and documents

17. **Laws:** All statutory Rules and regulation will be abided by you.

18. **Taxes & Duties:** If any new taxes duties, fees, levies are imposed or revised upwards same shall be reimbursed by BPSCL on actual.

19. **Penalty Clause:**

- Due to poor workmanship if emission will be more than 50 m / NM³ a penalty @ Rs.1000/- per hour will be imposed till the achievement of norms.
- Due to poor cleanliness of ESP Floors a Penalty @ Rs.1000/- ESP every time will be imposed.
- Any one out of 02 Air-compressor is out of service, compressor should be made available within 72 hours failing which a penalty @ Rs.500/- Hr will be imposed till the compressor is made available.
- If any field trips due to high level of Ash in hoppers a penalty @ Rs.1000/- per hour will be imposed till the ash level gets normal.
- All gear boxes of rapping mechanism both in collector & discharge side should remain available. Any break down occurs and if repairing does not require shut down, it should be made available within 48 hr failing which a penalty @ Rs.500/- per gear box will be imposed.
- Poor availability of equipment:
At least two Ash water pumps should be available all the time, if failed a penalty @ Rs.500/- per hour will be imposed as below: (This is not applicable for 3rd Pump).
- Delay in overhauling / major repair of Ash Slurry Pump.
- 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.
- Violation of safety will be penalized as per annexure attached for safety.
- DPH-I:** Penalty clause is applicable in following cases.
 - Flooding of DPH due to operational failure and stoppage of all ash slurry pumps. Penalty will be applicable as per formula given below:

$$\text{@} = \frac{\text{Value of W. O.} \times \text{No. of days to re-commission the Plant}}{365}$$
 - Poor availability of equipments: At least three ash slurry pumps should be available all the time. If failed penalty will be imposed @ 300.00 / hrs. This is not applicable for fourth pump.
 - Delay in overhauling / major repair of Ash slurry pump. Time allotted for normal overhauling of ash slurry pumps = 96 hours. Beyond 96 hours @ of Rs. 100 / hours will be charged as penalty till the completion of jobs.
 - Poor illumination, cleanliness of equipments and working area: contractor has to maintain 70W HPSV = 10 nos.
Up to 400 W HPMV = 15 nos. & tube light = 15 nos. within the BB limit of DPH with minimum 150 Lux of illumination failing which penalty will be as below:

Penalty amount will be fixed at the discretion of Engineer in – Charge which is minimum Rs. 100.00 & Maximum up to Rs. 500.00 each time of inspection.

20. **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:

- i. 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 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.
- ii. Fine upto 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 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).
- 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.

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	Description of work	Qty.	Rate/Month (Rs.)	Total Amount for 12 months
Service Part				
1.	Annual Maintenance & Operation of ESP and Ash Handling System as per Scope of Work including gas & electrodes	12 months		
2.	Operation & Maintenance of Dredge Pump House – 1 as per Scope of Work including gas & electrodes	12 months		
Supply Part				
3.	Cost of all types of Industrial gases and welding electrodes, cutting & grinding wheel.	12 months		
			Total	
Rupees only				

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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ANNEXURE - VII

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 BPSCL 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 BPSCL should be maintained and returned back in sound condition after the completion of contract period.
9. Ensure that the illumination in and around workplace and access areas are maintained properly. Make sure to switch off the light, fan and air conditioners after use.
10. The 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, BPSCL shall exclude the concerned person from the site and take all other appropriate measures as deemed necessary. BPSCL reserves the right to perform random drug and alcohol tests.
22. The Contractor 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 Contractor Personnel. An investigation report assessing the root cause, corrective action, and preventative action shall be submitted by the Contractor to BPSCL within 24-hours of the incident's occurrence.