

# **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-205/NIT-631/1477**

**Dated 14/03/2017**



## **TENDER DOCUMENT**

**NAME OF WORK: AMC of C&I Systems and equipment of TPP Units  
(5 Boilers & 3 Turbines)**

**COST: Rs.1000/-  
(Rupees One 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 Bhavan, Bokaro Steel City – 827001

NOTICE INVITING TENDER

CIN:U40300DL2001PTC112074

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

NIT No. : BPSCL/CEO/P&C/16-17/C-205/NIT-631/1477

Date: 14/03/2017

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

Description of Work	<b>AMC of C&amp;I Systems and equipment of TPP Units (5 Boilers &amp; 3 Turbines)</b>
Earnest Money (in Indian Rs.)	<b>Rs. 15,000/-</b> (Rupees Fifteen Thousand ) only
Cost of tender documents (Non-refundable) (in Indian Rs.)	<b>Rs.1000/-</b> (Rupees One Thousand) Only
Period of contract	<b>01 (One) year from the date of commencement of Work. (Extendable for another one (01) year on satisfactory performance)</b>
Last date & time of submission of tender	<b>13/04/2017 at 12.00 Hrs. (IST)</b>
Bid opening Date & Time.	<b>13/04/2017 at 12:15 Hrs. (Part A &amp; B)</b>

## **Qualifying Requirements / Eligibility Criteria :**

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

### 2. **Average annual turnover (AAT)**

Tenderer should have Minimum average annual turnover (MAT) of **Rs.11.00 Lakhs**.

⇒ Average annual turnover shall be determined taking into consideration turnover of available preceding three consecutive financial years. Other income shall not be considered for arriving at annual turnover.

⇒ Audited annual accounts along with auditor's report of the bidder should be furnished in support of the same. Where audited annual account is not mandatory as per the law, the bidder has to submit annual financial turnover during the consecutive last three (03) years, ending 31st March of the previous financial year duly certified by CA.

### 3. **Technical Capability :**

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

- Three similar completed works each costing not less than the amount \* equal to **Rs.10.00 lakhs**  
**OR**
- Two similar completed works each costing not less than the amount \* equal to **Rs.13.40 lakhs**  
**OR**
- One similar completed work costing not less than the amount \* equal to **Rs.23.50 lakhs**

**Similar Work means:** AMC of Power Plant control and instrumentation in a Thermal Power Plant having unit size 50 MW and above.

\* The value of work order(s) will be considered on pro rata yearly basis.

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 bidder shall furnish authenticated copies of latest IT Return, Service Tax Registration, EPF certificate, ESI Certificate.
6. Experience as subcontractor will not be considered.
7. Bidder as a Consortium is not allowed.
8. **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. 1000.00** (non-refundable) in the shape of Demand Draft / Banker's Cheque drawn from any Nationalized / Scheduled Bank except Co-Operative Bank, in favour of **Bokaro Power Supply Company (P) Ltd.**, Payable at Bokaro Steel City.
- ii) Offer shall be accompanied with Earnest Money Deposit (EMD) of **Rs.15,000.00 (Rupees Fifteen thousand) Only** in the shape of Demand Draft / Pay Orders / Bankers Cheque Payable at Bokaro Steel City // Bank Guarantee having validity for, one (01) year, from any Nationalized Bank / Scheduled Bank except Co-operative Bank drawn in favour of **Bokaro Power Supply Company (P) Ltd.** as per format available at our website: [www.bpscl.com](http://www.bpscl.com)
- iii) However, Micro & small enterprises (MSEs) / PSU /Govt. Undertakings and Co-operative societies will be exempted from submission of cost of tender document & Earnest Money as per government policy. For MSEs the exemption from paying cost of tender document & Earnest Money will be granted only on submission of valid notarized copy of certificate having a valid Entrepreneurs Memorandum (EM) number.SSI/NSIC certificate holders should also submit a copy of Entrepreneurs Memorandum.
- iv) 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 **Website: bpscl.com / eps.buyjunction.in** only.
2. Bidders are requested to visit above website regularly for any addendum / corrigendum / Extension till opening of the NIT. **Any such changes shall not be published through Press advt.**

For and on behalf of  
Bokaro Power Supply Company (P) Limited

Sd/-

(J.M Prasad)

DGM (P&C)

Tel : 8986874098

Email : [purchase.bpscl@gmail.com](mailto:purchase.bpscl@gmail.com)

## **Conditions & Rules to be observed in submitting Tenders**

### **1.01 Manner of Submission of the Tender**

The tender shall be divided into 03 parts as follows:-

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

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

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

- c) **Part C:** Online sealed Price Bid through URL : <http://www.buyjunction.in>

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

Step 1: Type <http://www.buyjunction.in> in the internet explorer.

Step 2: Click on Login (present on Top right side of the Page)

Step 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](mailto:manish.nandwana@mjunction.in)

Ms. Monalisa Shaw \_ 9163348297\_ [monalisa.shaw@mjunction.in](mailto:monalisa.shaw@mjunction.in)

**Mr. Sumit Kumar Das – 8873002750 - [sumit.das@mjunction.in](mailto:sumit.das@mjunction.in) for Bokaro Office**

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

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

### **1.02 Tender Validity Period**

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

### 1.03 General

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

**General Terms and Conditions**

- 2.01 Bidders are requested to visit the site before submission of the bid to get acquainted with actual site condition.
- 2.02 You will have to follow and observe the safety & statutory requirements.
- 2.03 You will have to be fully responsible for any sort of unsafe activity of your workmen.
- 2.04 All working personnel should have proper safety certificates issued by BPSCL before start of work.
- 2.05 Supervision of the work has to be carried out by the agency.
- 2.06 Work is to be carried out as per instruction & satisfaction of the Engineer-In-Charge.
- 2.07 Rates are to be quoted on firm price basis. Any conditional offer is liable to be rejected.
- 2.08 In case of any documents/information submitted by the bidder(s) found to be false or containing any misrepresentation of having any fraudulent declaration in it then in such eventuality legal action (including cancellation of contract, banning of business dealing, forfeiture of EMD, criminal proceedings etc.) as deemed fit may be initiated by BPSCL against the bidder.
- 2.09 **Payment Terms :**  
90% of contract value will be paid on pro-rata basis on progressive jobs duly certified by Engineer In-Charge and balance 10% will be retained as security deposit which will be released after **three (03) months** of satisfactory execution of work.
- The expression satisfactory execution of the order shall mean fulfillment of all obligation arising out of and the guarantees stipulated in the contract. In default at satisfactory execution of the order the security deposit shall be forfeited to the BPSCL.
- Any penalty for which the successful tenderer shall be found liable or any liquidated damages which shall be payable to the BPSCL in terms of the Contract, shall also be recoverable by the BPSCL from the Security deposit. If such security deposit will not be adequate for the purpose of liquidating the amount of penalty and/or damages as contemplated, the amount in excess thereof shall be deducted from any sum or sums which may be due or may become due to the successful tenderer from the BPSCL on any account whatsoever.
- Notwithstanding what has been stated above if the successful tenderer shall have duly performed all his obligation under and the guarantees stipulated in the contract and observe all the terms and conditions thereof and no penalty shall have been recoverable from him and / or the BPSCL shall not have suffered any damages whatsoever, then security deposit shall be refunded, on receipt of a certificate from the Engineer in - charge that there is no claim against the Successful tenderer under the Contract.
- 2.10 Contractor will produce medical fitness certificate for his workers prior to CLC clearance for working at height. Height passes to be obtained from safety department.
- 2.11 You will have to strictly adhere to the provision of various labour laws including payment of bonus Act 1965.
- 2.12 You will have to pay Rs.4/- extra to the working persons as per BPSCL rules above minimum wage of one day.
- 2.13 Offer is to either type written or by handwritten and in no case partly type written and partly hand written. No corrections, overtyping shall be permitted without duly authenticated.
- 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 a tenderer quotes unworkable rates i.e. if the quoted price is less than the lower limit of the estimated price and is considered for placement of order, the party will be asked to justify the rate quoted and will have to give Performance Guarantee Bond (in addition to the Security Deposit) in the form of Bank Draft/Bank Guarantee. The amount of Performance Guarantee Bond will be equal to the difference between lower limit of estimated price and quoted price of the tenderer. Earnest Money of the tenderers who refuse to give Performance Guarantee Bond will be forfeited and they will not be considered for taking participation in any kind of Tender for next Six (06) months from the date of issue of letter to the Defaulter Firm, if order / contract is not finalised from the present tender.
- 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 shall be finalized through Reverse auction or offline negotiation with **L-1 bidder** at the discretion of BPSCL. The bidder shall submit their price bid through URL <http://www.buyjunction.in>. BPSCL reserves the right to re-launch the reverse auction or process the case on the basis of ranking derived from on-line price bid submitted by bidders at the time of submission of techno – commercial bid. The bidders 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 ltd.**) 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 **13.04.2017 at 12.15 PM**. If it is declared a holiday by BPSCL then in the next working day at the same time in the presence of Tenderer's Authorized Representatives, who wish to be present.

**Scope of works:**

**1. Calibration/ Repairing/ Replacement/ Commissioning :**

- i) Control room instruments including recorders, scanners, digital indicators and bar graph indicators, totalizers and other panel mounted instruments (500 Nos.)**
  - a) Periodic calibration of control room instruments including recorders, scanners, digital indicators, bar-graphs, totalizers and other panel mounted instruments on strict schedule basis.
  - b) Repairing and attending break-downs in control room instruments (as mentioned in point 1.a) and various other panel mounted instruments.
  - c) Replacement of old defective instruments as mentioned above in point 1.a, when required.
  - d) Commissioning of new parameter including commissioning of new secondary instrument (as mentioned in point 1.a) as per requirement.
  - e) Keeping calibration & maintenance records of various instruments.
  
- ii) Flow, pressure, level and temperature transmitter (200 Nos.)**
  - a) Isolating the identified transmitter, transporting to & from the lab (for calibration) and re-fixing of transmitter which includes pressure, flow, level and temperature.
  - b) Calibration of various transmitters (as mentioned above in point 2.a).
  - c) Repair and attending break-down as various transmitters and other field instruments like RTDs, TCs etc.
  - d) Replacement of old transmitters and field instruments as per requirement.
  - e) Commissioning of new transmitters including cable termination as per requirement.
  - f) Keeping and maintaining records of above mentioned jobs.
  
- iii) Thermodials, pressure gauges, thermocouples and RTDs (200 Nos.)**
  - a. Periodic inspection and cleaning, as a part of preventive maintenance job, of the local instruments as mentioned above in point 4.a.
  - b. To ensure proper protective covering (plastic wrapping) of the local instruments (as mentioned in point 4.a) to avoid breakdown due to adverse environment conditions.
  - c. Commissioning of new local instruments including RTDs, TCs, and Pressure gauges as per requirement.
  - d. Removal of old local instruments (mentioned in 4.a) as per requirement.
  - e. Modification in scheme of existing system, if required.
  - f. Keeping and maintaining records of above mentioned jobs.

**2. Servicing, Commissioning and maintenance of electrical actuators including limit switch setting and position feedback system. It includes the following jobs :**

- a. Servicing of gear box of actuators.
- b. Periodic inspection and top-up of lubricating oil in actuator's gear box.
- c. Servicing/ adjustment/ setting of limits as per need and on periodic basis as a part of preventive job schedule.
- d. Commissioning of new actuators.
- e. Attending breakdown of any form in actuators in all the three shifts.
- f. Periodic operation checking of reserved system actuators as a part of preventive job schedule.
- g. Adjustment/ repairing of feedback and commissioning of new feedback system as per requirement.
- h. Keeping and maintaining records of above mentioned jobs.

3. **Servicing, Commissioning and maintenance of solenoid valves and level switches.**
4. **Servicing, Commissioning and maintenance of electromagnetic relays and contactors.**
5. **Cleaning and purging of impulse lines. It includes following jobs:-**
  - a. Steam purging of impulse lines.
  - b. Periodic air purging of air line transmitters impulse lines.
  - c. Nitrogen gas purging of impulse lines.
  - d. Keeping and maintaining records of above mentioned jobs.
6. **Laying, termination of new cables & replacement of defective cables between junction boxes to instrument panels, JB to field instruments and inside control room which includes the following:**
  - a. Laying of new cables.
  - b. Glanding the cables, where required.
  - c. Cable termination in both ends including ferruling, lug punching and cable dressing.
  - d. Replacement of old defective cables.
  - e. Re-routing of existing cables as per requirement.
  - f. Dressing of existing cables or new cable on cable tray
7. **Removal/ Calibration/ Commissioning of Oxygen analyzers/CO Analysers which includes the following:**
  - a. Calibration of Oxygen analyzer/CO probe on strict schedule basis.
  - b. Weekly maintenance of purging air and rotameter adjustment.
  - c. Regular inspection of probe and electronic system of analyzer is to be done on strict schedule basis.
  - d. Replacement of defective system.
  - e. Removal of system when required.
  - f. Commissioning of new system when required.
8. **Repairing/ Maintenance/ Replacement of Control Panels/Instrument enclosures and junction boxes which includes the following:**
  - a. Cutting the layout in existing control panel to fix/ mount the secondary instruments.
  - b. Patching the layout of old secondary instrument which is not in use.
  - c. Blowing the control panel using blower/ vacuum cleaner during short shut-downs.
  - d. Cleaning of secondary instruments of control panel on daily basis.
  - e. Painting of control panel when required.
  - f. Blowing of dust using blower.
  - g. Tightening of terminals of JBs.
  - h. Erection of new JB or replacement of old JB, which ever is required.
  - i. Cable termination, rail and terminals mounting inside the JB.
  - j. Glanding of cables and plastic covering of JB to ensure the proper sealing of JB from dust and water.
  - k. Regular inspection is to be done on strict schedule basis.
9. **Protection and interlock checking of different equipments, Boilers and Turbo Generators. It includes the following jobs:**
  - a. To perform simulated protection & interlock checking of Boilers, Turbo Generators and various auxiliary equipments and systems associated directly or indirectly with the production unit.

- b. To maintain a clear record of testing and getting it signed with various concerned bodies like electrical department, boiler operation/ maintenance department, turbine operation/ maintenance department. And C&I department.

**10. Modification of old instrumentation schemes which includes the following:**

- a. Identifying the required area of modification.
- b. Preparing the related drawings for modification and designing the circuit or engineering drawing or both, whichever is required.
- c. Implementing the above proposed system and perform loop testing.
- d. Replacement of old system or cables, if required.
- e. Perform protection checking and stimulated testing of the system.

**11. Trouble-shooting in all the three shifts as per the requirement which includes the following:**

- a. Working-personnel will have to be posted by the contractor in all the three shifts covering 24 hours on all days including Sundays & holidays so that the defect rectification job could be started immediately as soon as the problem arises.
- b. A back-up group will always be ready even in odd hours to tackle the problem, if the front line repair man feels any difficulty in solving the problem.
- c. Keeping and maintaining the 24hrs shift log book register as well as 'General Shift' work register.

**12. Replacement of defective isolating valves/ manifolds.**

**13. Leakage attending and arresting of steam, water and air lines.**

**14. Replacement of impulse lines( includes following jobs)**

- a. Replacement of defective impulse lines.
- b. Modification of existing impulse line as per requirement.
- c. Erection of new impulse line as per requirement for commissioning of new parameters.

**15. Dismantling, servicing, fixing, calibration and modification of turbovisory pick-ups. It includes the following jobs:**

- a. Dismantling of various turbovisory pick-ups like axial shift, turbine speed, differential expansion, bearing vibration, eccentricity, case heat expansion, bearing temperature sensors and winding temperature sensors during short-long shut-down periods, as per requirement and upon receiving clearance from concerned authority to do so.
- b. Servicing of the various turbovisory pick-ups as mentioned above in point 15.a, during the shut-down period and to ensure proper keep-up of the same through out the shut-down period.
- c. Once after receiving the clearance from the concerned authority, fixing of various turbovisory pick-ups (as mentioned in point 15.a) may be done.
- d. Calibration of various turbovisory pick-ups (as mentioned in point 15.a) has to be done as per requirement.
- e. Modification in any scheme of turbovisory system, vibration system including wiring, configuring and defining set-points has to be done as per requirement.
- f. Periodic maintenance of various turbovisory pick-ups like bearing temperature RTDs, vibration sensor probes etc has to be done with a strict schedule as a part of preventive maintenance job.
- g. Keeping and maintaining records of above mentioned

**SPECIAL TERMS & CONDITIONS:**

**Guidelines regarding performance of work**

1. You will perform the subject work in accordance with the guidelines contained in the work order and the instructions of the Engineer-in-charge keeping in mind the latest technical specifications and IS codes of practice.
2. All incidental items of work not shown or specified but reasonably implied in the scope of work at no extra cost to BPSCL.
3. In case of any doubt or contradiction, the decision of the Engineer-in-charge will be final.

**Firmness of price**

1. The rates and quoted price agreed by you shall be fixed for the entire duration of the contract including the authorized extension, if any shall not be subjected to enhancement or escalation on any account.
2. You have to perform the job as per the availability of the shutdown and hence, there will be no consideration for idling of manpower.
3. The finally agreed rates will be inclusive of all costs to be incurred by you due to tools and tackles, labour, safety equipment, cleaning equipment, instruments, testing kits, calibrators and materials etc to be supplied by you.

**Safety training and safety clearance :** All unskilled and skilled workers, supervisors and engineers deployed by you must undergo safety training conducted by Safety Engineering Department of BPSCL and obtain certificates from there, without which they will not be allowed to work.

**Supply and use of safety equipment :** All the safety appliances and personal protection equipment are to be provided by you to your men at your own cost. Your men must use the safety equipment as per the requirement without fail.

**Test certificate of safety equipment**

1. The safety equipment like helmets, safety shoes and safety belts, hand gloves etc must be purchased from standard companies and use only after getting them tested.
2. Tools used by electricians must be of electrical grade, properly insulated and tested.

**Observance of safety rules**

1. It is your responsibility to comply with all the safety rules and regulations as applicable in the plant area. Ignorance of safety rules and statutes will not be a valid excuse.
2. Your employees will have to strictly observe safety rules and comply with statutory requirements concerning the safety. Any violation thereof by any employee will expose you to penalty as mentioned elsewhere.

**Medical fitness of employees :** You will have to ensure proper medical fitness of the employees employed by you.

**Gate-Pass for employees :** For your employees, you will have to arrange necessary gate-pass, vehicle-pass and night-permission after fulfilling the formalities as laid down by the BSL as well as Pass-Section authorities.

**Work permit :** As the area of work is highly sensitive with respect to safety hazards, you supervisor/engineer must take proper work-permit, shutdown clearance and other instructions from the Engineer-in-Charge daily before start of the work.

**Compliance with various Labour Laws :** You will have to strictly comply with the provisions of various labour laws, workmen compensation Act, EPF and ESI rules etc as applicable in the industries.

**Inputs by BPSCL (Free of cost)**

Following materials/ equipment shall be supplied by BPSCL free of cost as per requirement.

1. EOT crane, Mobile crane, Truck and Fork lift.
2. Compressed air, electricity and water.
3. All types of spares needed to be replaced during the repair work of various C&I equipment and systems.
4. Power and control cables, lugs, glands etc.
5. Gases for carrying out gas-cutting and welding.
6. Welding electrodes and brazing rods.
7. Grease, lubricants, nuts & bolts etc.

**Deviations and Exclusions**

1. You will have to comply with all the terms and conditions without any deviation and exclusion as described under the head 'Special conditions of contract'.
2. You will have to perform all the jobs as described under the head 'Scope of work' without any deviation and exclusion.

**Innovativeness :** If any breakdown occurs, it is to be analyzed to find out its root cause. Once the cause is identified, its remedial measure is also to be thought out and incorporated in consent with the Engineer-in-Charge so that a similar breakdown does not occur again.

**Job competence of working personnel**

1. Your engineer and supervisors must have keen familiarity with the C&I equipment like Turbovisory system, ACS system, Vibration monitoring system, High pressure line equipment and transmitters, EDLI etc.
2. Your site engineer should possess prior experience of power plant instrumentation system.
3. Your supervisors should possess diploma degree. It will be preferred if they also possess enough experience of power plant instrumentation system and equipment so that they can plan and do their jobs efficiently and effectively.
4. Your instrument technicians should have enough job experience in the relevant area so that they are able to perform the job pertaining to maintenance and repair of C&I equipment successfully and confidently. Their workmanship should be of high level.

**Job planning and scheduling**

1. After assessing the total quantum of work, job planning & scheduling will have to be done so that, job fulfilment target is achieved hundred percent in all areas.
2. Planned shutdown may not be available sometimes due to unfavourable plant condition. But, this should not be the reason for sitting ideal. Using the creative thinking, the site engineer of the contract must come forward with alternative work-proposal in their respective work-areas so as to keep the wheels of the plant always moving.

**Preservation and custody :** Dismantled parts of an equipment will have to be kept in a clean container covered properly. Safety against theft and pilferage of all the equipment coming under the job-jurisdiction will be your responsibility.

**Workmanship guarantee :** If a repair fails within next six months, it creates a very poor impression about your competence and hence you will be held responsible for it & in addition you have to carry out the repeat-repair free of cost.

**Subletting of contract**

1. If you plan to get the work executed exclusively by your own employees, they must possess the right professional qualification, experience and competence as described under the heads 'Job competence of working personnel' and 'Qualification and experience of the manpower'.
2. But, if you plan to sublet the contract to once or more sub-vendors, you can do it very selectively only after taking the prior approval from the BPSCL authorities. Such approval will be given only when the working personnel of the sub-contractor strictly meet the set standard of qualification, work-experience and job-competence in the respective areas as described under the heads 'Job competence of working personnel' and 'Qualification and experience of the manpower'.
3. However, No subletting of contract for site engineer and supervisors will be allowed.

**Significant improvement in the system :** After a reasonable period of taking over the maintenance, repair and upkeep responsibility, a marked improvement in the present condition of C&I equipment and systems of TPP portion must be apparently visible. In this context, periodical assessment and evaluation will be done by the Engineer-in-charge and other higher authorities of BPSCL.

**Coverage Area:** This is Annual Maintenance Contract (AMC) required to carry out 'Maintenance & Repair' jobsof C&Iequipment as installed in TPP portion (BLR 1to5 and TG 1to3) of Power Plant.

**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:-

1. General as well as personal safetywear appliances and equipment to be used by the employees of the contractor.
2. All measuring and testing devices like multimeter, loop calibrator, megger (500V) etc needed to carry out given work pertaining to C&I section.
3. All parameter calibrators like temperature calibrator, pressure calibrator of various ranges has to be provided.
4. Electrician hand tools complete set (electrically insulated and tested).
5. Welding machine, welding cables and accessories like welding helmets and heat insulated hand gloves etc.
6. Fitter hand tools complete set.
7. Gas cutting set.
8. Grinding machine with grinding-wheels of different sizes.
9. Drilling machine with full set of drill bits and whole saw cutting blades of different sizes.
10. Soldering and brazing kits.
11. Hacksaw frame with blades.
12. Special tools like bearing-puller, thread making tapes.
13. General type consumables such as cotton waste, marking cloth, PVC tape, Teflon tape, emery paper, kerosene, petrol, rustoline, on-line contact cleaner.
14. Cleaning and dust removing equipment like vacuum cleaner, air blowers, brushes (of different sizes), duster and other supporting accessories.
15. Stationary items for systematic and presentable record-keeping and carrying out routine work on daily basis.

**Frequency of carrying out the maintenance and repair work**

1. Routineinspection, cleaning and condition-monitoring will be done regularly whenever an opportunity is available for doing it.Major overhaul or medium repair of any C&I equipment is to be done as and when required.

2. If a problem arises in any C&I equipment, it will be attended immediately irrespective of the maintenance and repair work done earlier and it will be counted under the head 'Trouble shooting in all the three shifts'.
3. If a breakdown occurs in any C&I equipment, it will be attended immediately irrespective of the maintenance and repair work done earlier and it will be counted under the head 'Attending to breakdowns'.
4. Cleaning, housekeeping, painting, logging and record-keeping etc are to be done regularly.

### **Quality Assurance Plan**

1. The maintenance and repair work of C&I equipment will be done as per the details described in the 'Scope of work'.
2. 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 forms' and got it counter signed by the site engineer to ensure the required quality of the job performed.
3. After the maintenance and repair work is over, the operation of the equipment will be checked up with the consent and in coordination with mechanical counterpart of BPSCL to ensure the required quality of the job performed.
4. There will be a six month 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, the contractor will be held responsible for it addition to carrying out it repeat-repair free of cost.
5. Different test norms and test results must conform to the values as prescribed by the manufacturer or as enumerated in the related IS specification.
6. All items of work shall be executed in accordance with the laid down standard practices or the IS codes as the case may be.
7. Electrical and general safety guidelines must be given due regard while executing the job.

### **Penalty Clause**

You will be exposed to following types of penalty charges:-

1. In case of short supply of manpower as indicated in manpower clause, Rs.300/-per day/ manpower will be charged as penalty in addition to minimum wages.
2. While executing the routine job per day, if work is delayed beyond the stipulated time, a penalty of Rs. 500/- to Rs. 1,000/- may be charged.
3. If shortage of tools, tackles, consumables and safety equipment's is detected, ₹ 100/- to ₹ 500/- will be charged as penalty.
4. If breakdown occurs due to either poor workmanship or some sort of negligence in doing a job properly, a penalty of Rs. 1,000/- to Rs. 5,000/- will be charged.
5. If you are found violating the guidelines and polluting the environment, you may be charged anything between Rs. 500/- to Rs.1000/- as penalty.
6. Your men must be competent enough to execute the work without damaging anything. If such damage takes place its replacement cost will be recovered from you.
7. In addition to above, if any other act of omission, negligence and lack of expertise is detected in the responsibility area, it will expose you to penalty charges as decided by the Engineer-in-charge.

**Safety Clause** Without prejudice to the right conferred by the clause above for stoppage of work for violation of safety requirements, contractor shall be liable for penalties mentioned below:

1. Up to Rs. 5000/- by DGM (safety)/Head of safety Engg. Deptt/ Head of the Deptt where work is being done for 1<sup>st</sup> 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 the contractor or his workers. This condition is applicable in case of violations of Road Safety norms also.

2. Fine up to Rs. 20,000/- on 2<sup>nd</sup> violation as mentioned in clause (1) above.
3. The contractor 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 3<sup>rd</sup> violation as mentioned in clause no (1) above.
4. Fine up to Rs. 10,000/- for violation in use of Full Body Harness by the contractor or his worker for working at height (above 1.8 meter from immediate floor).
5. Fine up to Rs. 25,000/- (minimum) to Rs. 50,000/- (maximum) for serious injuries and disabilities caused by violation as mentioned in Clause No. (1) and (4)
6. Independent of the above, the contractor shall be fined Rs. 1,00,000/- (one Lacs) or more and debarred/ deregistered from taking up further contractual work in BPSCL from the date of issue of debarring/ deregistration order in case of any fatal accident occurs due to violations as mentioned in clause no. (1) and (4).

**Manpower to be deployed by contractor(Excluding weekly off)**

Sl No.	Type of Manpower	Quantity	Qualification & Experience required	Field of Experience
01	Site Engineer	01	BE (Electronics & Instrumentation) with minimum 04 (four) years of experience <b>OR</b> Diploma (Electronics) with minimum 08 (eight) years of experience.	1. He should have prior experience of Power Plant (consisting high pressure boilers and turbines) Instrumentation system. 2. He should know statutory and safety requirements to be fulfilled related with the Electrical and C&I equipment of a Thermal Power Plant.
02	Supervisors	02	BE (Electronics & Instrumentation) with minimum 02 (two) years of experience <b>OR</b> Diploma (Electronics) with minimum 05 (five) year of experience	Same as above
03	Skilled Technician	07 (05 Electrician, 01 – Welder, 01 – Inst. Fitter)	ITI in electronics trade with minimum 03 (three) years of experience <b>OR</b> Matriculation with 8 (eight) years of experience in Power Plant Instrumentation	Same as point no. (1) above
04	Unskilled Worker	07	1. He should be young & energetic. 2. He should be able to do hard work.	1. He should be to identify the C&I equipment of related areas. 2. He should be able to do cleaning and housekeeping jobs sincerely.

### **Scheme for utilization of the contract's manpower**

1. Your engineer will plan the jobs in consultation with the site engineer of BPSCL keeping in view the 'Scope of Work' in totality. No part of the job-responsibility should be neglected including cleaning, housekeeping, condition-monitoring and record-keeping etc.
2. The jobs planned and allotted for the day will be divided among the supervisors by your engineers and they will be in close touch with the site-engineer of BPSCL for giving a report of the job-fulfilment and taking instructions from them regarding the next job.
3. Your supervisors and engineers will co-ordinate among themselves and get the jobs executed under their direct supervision and responsibility.
4. In addition to the execution of allotted jobs, your engineers and supervisors will have a probing-eye over the entire area of responsibility so that, the impending trouble could be identified and the possible breakdown could be averted.
5. Your engineers and supervisors will extend active support to site-engineer of BPSCL in doing spares-planning and sorting them in proper order after their procurement.
6. Regarding attending to 'Routine troubles' and carrying out 'Breakdown repairs', your engineer have to be in close touch with control engineers and also they should give regular reports to the site-engineer/BPSCL.
7. The communication channel and reporting system among the group members should be such that the contractor's engineer are able to gear up their teams immediately to attend the breakdown even in odd hours of the day or night including Sundays and holidays.

**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 L1 bidder to submit price break up, the bidder shall be suspended for a period of six months from the date of issue of suspension order.*
3. **Price Basis L1 bidder will be decided on lowest Landed Cost excluding service tax Basis.**

⇒ **Summary of Schedule of Qty :**

Description	Duration	Total Amount (Rs.)
<b>AMC of C&amp;I Systems and equipment of TPP Units</b> (5 Boilers & 3 Turbines)	01 year	

⇒ **Price Break-up :**

Sr. No.	Description of job	Rate/Month (Rs)	Amount (Rs.)
1	Calibration/Repairing/Replacement/Commissioning of : a) Control room instruments including recorders, scanners, digital indicators ,bar graph indicators, totalizers and other panel mounted b) Flow, pressure, level and temperature transmitter (200 Nos.) c) Thermo dials, pressure gauges, thermocouples and RTDs (200 Nos.)		
2	Servicing, Commissioning and maintenance of electrical actuators including limit switch setting and position feedback system (250 Nos.)		
3	Servicing, Commissioning and maintenance of solenoid valves and level switches (25 Nos.)		
4	Servicing, Commissioning and maintenance of electromagnetic relays and contactors (300 Nos.)		
5	Cleaning and purging of impulse lines (200 lines)		
6	Laying, termination of new cables & replacement of defective cables between junction boxes to instrument panels, JB to field instruments and inside control room (350 meters/month i.e.4200 meters for 1 year)		
7	Removal/ Calibration/ Commissioning of Oxygen/CO analyzers (10 Nos.)		
8	Repairing/ Maintenance/ Replacement of Control Panels ,Instrument enclosure & Junction boxes(50 Nos. each)		
9	Protection and interlock checking of different equipments, Boilers and Turbo Generators (5 nos. of Boilers, 3 nos. of Turbo Generators and their auxiliaries).		
10	Modification of old instrumentation schemes (25Nos.)		
11	Trouble-shooting in all the three shifts as per the requirement.		
12	Replacement of defective isolating valves/ manifolds (50 Nos.)		
13	Leakage attending and arresting of steam, water and air lines.(50 no.)		
14	Replacement of impulse lines. (25 mtr/month i.e 300 mtr for 1 year)		
15	Dismantling, servicing and fixing of turbovisory pick-ups like axial shift, turbine speed, diff. Expansion, bearing vibration, eccentricity, case heat expansion, bearing temperature /winding temperature sensors etc Calibration& modification of turbine supervisory systems as per requirement (03 nos of turbine)		
<b>Total Amount</b>			
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 ..... at .....On.....  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.).				
<b>Total numbers of pages in Techno-commercial Bid</b>				

### **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  
1<sup>st</sup> Floor, Tata Centre  
43, Jawaharlal Nehru Road  
Kolkata – 700 071

**Fax: 033 – 2288 3279**

**Ref: Reverse Auction for .....for Bokaro Power Supply Co. (P) Ltd. held on .....**

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

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.