

URANIUM CORPORATION OF INDIA LIMITED, JADUGUDA

Quotation Enquiry

Ref: UCIL/Mill/236/636 /2024

29th November' 2024

Sub: Cleaning of three pass fire tube Boiler No.- JH-9200, 8 Tonnes Capacity oil fire along with renewal of license for Jaduguda Mill

Dear Sirs,

Sealed quotation is invited as per the price bid format attached alongside. Sealed quotation may be reached to the office of undersigned on or before on 05.12.2024 at 04.00 PM.

General Terms and Conditions

1. **Completion Time:** within 01 (One) months from the date of commencement of work at site.
2. **Security Money Deposit:** Security Deposit equivalent to 05 (five)% of the ordered value is required to be deposited in Accounts Department - UCIL in the form of demand draft before the commencement of the work. 100% Security deposit will be refunded on written request in duplicate to the Engineer-in-charge after satisfactory completion of work or defect liability period.
3. **Rate:** Rate of total work as schedule of item enclosed shall be firm. No escalation will be entertained after quoted price by Contractor.
4. **Terms of payment:** Against this work order, payment may be allowed through maximum **one R.A. Bill, and one Final Bill**. 90% of payable amount shall be released immediately with certification and receipt of bills in the accounts section and balance 10% of payable amount after checking and realising all the admissible recoveries if any.
5. **Penalty for late completion:** If the boilers are not cleaned within the completion period then ½% per week will be levied and maximum upto 5% of contract value.
6. Any defective /poor workmanship after work shall be rectified by contractor at his own cost.
7. **Working Hours:** From 7:00 AM to 12:00 Noon & 2:00 PM to 5:00 PM (General shift) on all working days excluding Sunday & Holiday.
8. **Tools, tackles & safety Appliances:** The Contractor is required to provide all tools & tackles, safety appliances like safety shoe, gloves, helmet (yellow), goggles, safety belt to the persons engaged for the work. No persons are to be allowed in the work without PPE.

SCOPE OF WORK

Sub: Cleaning of three pass fire tube Boiler No.- JH-9200, 8 Tonnes Capacity oil fire along with renewal of license for Jaduguda Mill

1. SCOPE OF WORK:

- a) All inside wet surface comprising of boiler tubes, shell drum and furnace etc. should be cleaned for scale deposition by suitable chemical cleaning, (After dismantling of both side door and related valves and refitted in the same) without damaging the parent metal. The other surfaces of boiler tubes smoke chambers and furnace etc. should be cleaned for soot deposition by brushing as per the standard procedure. The above cleaning must be thorough and approved by the Boiler Inspector. Submission of renewed boiler operation certificate, from Chief Inspector/inspector of boilers, Govt. of Jharkhand, with validity of one year from the date of issue of certificate is in bidder's scope of work. The chemical cleaning of Boilers should be done as per Indian Standard **IS: 10391-1982 "Code of Practice for Chemical Cleaning of Boilers"**.
- b) The deposit should be analysed and that required acid should be selected for the solvent which will most effectively react with type & volume of deposit. **Contractor will supply the minimum 15-20% (v/v) of HCL (Hydrochloric Acid) of minimum quantity 1000 litre with suitable quantity of Inhibitors Rodine 213 (ordinary), and the unit is cleaned by the continuous circulation method.**
- c) Contractor will carry the continuous circulation method of removing hydroxyapatite and other phosphate scales from boilers, comprising the steps of:
 - i. **Step-1:** Soaking the scale in an inhibited solution of from about 0.1% to about 10% sulfuric acid to thereby form a sulphate.
 - ii. **Step-2:** Treating the sulphate formed by the action of the sulfuric acid on the scale with a solution selected from the group consisting of water soluble hydroxides (Sodium Hydroxide).
 - iii. **Step-3 & Step-4:** Soaking the product formed by the previous step with an inhibited solution of about 5% to about 15% hydrochloric acid, thereby forming a water soluble salt of said hydrochloric acid & followed by solution of tri-sodium phosphate.
2. **Free supply by UCIL:** UCIL will supply the required water, electric power, light, gasket, and empty drums at free of cost for this job. UCIL will provide necessary amount of sulphuric acid, tri-sodium phosphate and sodium hydroxide for chemical cleaning on condition of availability.
3. **Quantity:** 01 (One) Nos. boiler to be cleaned. Cleaning will be done one by one within stipulated time as per the tender terms & conditions.

4. The cleaning, inspection and certification of the boilers shall be completed within ten days of intimation or before date of expiry of last certification. Exact dates will be confirmed by Engineer-in-charge as per requirement. Above is tentative schedule of cleaning.

Sl. No.	Boiler No	Capacity	Cleaning
1.	JH9200	8 TPH	Before Expiring of certificate

5. **Transportation, handling and storage of materials and tools/machines etc:** You will have to arrange for the transportation (including loading & unloading), handling and storage of all your tools, tackles, pumps and chemicals etc. at your own cost.
6. **Insurance:** The contractor shall insure and maintain insurance against his liability for accident or injury to workmen or machineries used for the work and shall submit 'two copies' of the policy and the receipts of premiums paid or satisfactory evidence of insurance coverage valid for three months contract period at a time for all the persons to be engaged at their cost to the Engineer- In-Charge, UCIL before the commencement of the work. The contractor will not be allowed to carry out any activity without necessary insurance coverage of their persons. Insurance policy shall also indemnify UCIL against any claim raised by the injured/affected workmen or his family.
7. **Indemnity:** Contractor will fully indemnify the Corporation against all responsibility and liability whatsoever arising out of accident/injury to contractor's workmen, third party or to Corporation's personnel and properties.
8. **Safety:** Contractor will take full safety measures and arrange the necessary safety gadgets/appliances, tools and tackles, helmet, gumboot, safety belt, goggles, gloves, apron, ladders, bamboos, ropes, machineries, scaffolding etc. required for the work by their own so as to ensure that no damage, loss or injury to Corporation's personnel, contractor's personnel, third party or equipment are caused due to the work being carried out by contractor. UCIL shall not provide any safety appliances under any circumstances. The contractor shall be fully responsible for any first aid and emergency treatment or serious medical treatment to his employees. Contractor shall have to bring all their labourers for necessary training in Mill Training Center for two hours before actual commencement of the work. UCIL will provide medical facility on chargeable basis.

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PRICE FORMAT

Sl. No.	Description	Qty.	Unit	Unit Rate without GST(in Rs.)	Total Rate without GST(in Rs.)
1	Chemical Cleaning of package Boiler No. JH-9200 with suitable Chemical and Brushes (After dismantling of both side door and related valve and refitted in the same) inclusive of cost of material & labour charges.	1	Nos.		
				Total Amount	
				GST@18%	
				Total Amount with GST	