Ref: 54 /JNARDDC/S&P/2018-19/ F-28

Date: 08.11.2018

As superscribed on the envelope.

विलय : Invitation of Quotation for “High Temperature Rotary Furnace / Kiln” for JNARDDC-2 bid system

Dear Sir,

The Centre is interested in procurement of “High Temperature Rotary Furnace / Kiln” for JNARDDC in Two bid system. As per details specification is given in Annexure-A.

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<th>विवरण</th>
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<td>“High Temperature Rotary Furnace / Kiln” for JNARDDC</td>
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As per details specification is given in Annexure – A & Terms & Conditions in given Annexure-B

You are therefore requested to send your competitive offer for above in a sealed envelope duly superscribed on top of the envelope as” Quotation for “High Temperature Rotary Furnace / Kiln for JNARDDC with Tender No. & Date” to the undersigned latest by 28th November, 2018 (15 Hrs.).

Refundable EMD : Rs. 1,10,000/- (One lakh and ten thousand only) should be paid in favour of JNARDDC by way of D.D.

Tender Fees : 5000/- (Not refundable).

Opening Date : 29.11.2018 (15.00 Hrs)

Bids should contain 3 separate properly labeled envelopes.

1. Technical Bid
2. Price Bid
3. EMD

Email : www.purchasejnarddcnagpur@gmail.com for complete details

माध्यम में,

आपका आपात्कारी,

आर. श्रीनिवासन / R. Srinivasan
बाहिर प्रबंधन अधिकारी / Sr. Admin. Officer
(आर. श्रीनिवासन)
Specifications for High Temperature Rotary Furnace/Kiln

Design, manufacture, supply & implementation of Oil Fired System based energy efficient 20 - 25 kg/day (Batch Type) Rotary Kiln Plant with auxiliary equipment, electric control panel on mechanical structure basis

- The operating temperature of kiln should be 1500°C-1600°C
- Feed material to be calcined: Partially Lateritised Khondalite (PLK), Bauxite, Laterite, Fly ash, etc.
- The feed capacity: 20 – 25 kg/day – Batch
- Fuel: LDO | Diesel
- The residence time for calcination 1-6 hrs with varying rate of heating and cooling arrangements.
- Kiln Refractory: high alumina - 70% & high alumina – 60%
- Dimension of the Kiln: - 400 mm diameter (inner) *4500 mm length
- Plant elevation: Assume sea level
- Kiln feed hopper: capacity - 30 kg, MOC: Mild steel or better
- Kiln Feeder: Type – screw type feeder, Drive – 0.25 HP, IS 2062 or better
- Feed Chamber: 25 mm castable lined with anchor, MOC: IS 2062 or better
- Drive – 2 HP gear motor with Girth gear & Pinion, Thrust plant mounted, high temperature lining up to 1600°C of high alumina bricks, Shell – IS 2062 or better
- Standard Thermocouple minimum 3 nos (ceramic coating with live display) should be provided at different temperature zone
- Discharge chamber: 25 mm castable lined with anchor, IS 2062
- 2 Layer kiln sealing mechanism – 2 set; IS 2062
- Diesel burner with its control system: Make – CKCO or better, Model – LAP-00, capacity –2-4 ltr/hr, Oil connection – ¼”, Air connection – 1”
- FD Fan: flow rate – 5m³/hr, power – 1 HP, pressure – 450 mmwc or higher
- Insulation & Brick Lining: High alumina brick lining of 75 mm thickness
- The kiln system should have temperature indicator & control system: Slip ring type K type sensor and indicator
- Electrical Control Panel: Incoming MCB, Voltmeter, Ammeter, DOL starter for kiln, feeder, FD fan
- Exhaust system should be provided with ID fan
- The system should comprise set of prime movers, related piping, structure, base frame

The list of spares and quantity should be mentioned by supplier

The party should provide list of references/ users

The party should provide information/data related with civil foundation for equipments and also give the foundation drawing with details
Printed copy of operating manual and drawings should be provided

**Installation & Training:** Erection, commission and Installation of rotary kiln at JNARDDC site and training should be provided.

**Warranty:** should have at least two years warranty.
Should provide after sales service support for at least five years
ANNEXURE – B (High temperature rotary furnace / Klin)

नवाहरलाल नेहरू एल्युमीनियम अनुसंधान विकास एवं अभिकल्प केन्द्र
स्थायी संस्थान, जया मंडळ, बारी नगरपूर
www.jnarddc.gov.in (07104-297014)

Standard Terms & Conditions of the Tender- 2018

1. Technical bid, Price bid and (EMD & Tender fees) should be submitted in three (3) separate sealed envelopes failing which bid will be rejected. The envelopes should be super-scribed with the Tender number, due date and name of the instrument and content.

2. If the bidder is not a registered vendor of JNARDDC, then the bidder should have following documents while submitting the offer which is compulsory for vendor registration with JNARDDC. (1) Shop & Establishment / Registration of company certificate / MSME-2006 (issuing certificate of registration for Micro / Macro / Small Scale Industries Certificates) / Certificate of Registration (2) PAN & GST No. (3) I/T Returns (4) Account No. of Firm. Registered Vendor need not submit above documents. Pl quote vendor number.

3. Basic Price of the tendered item should be quoted in one currency only

4. The Refundable Earnest Money Deposit (EMD) and non-refundable Tender fees should be submitted alongwith the technical bid in favour of "Jawaharlal Nehru Aluminium Research Development & Design Centre, Nagpur". Bids without EMD and tender fees (if applicable) will be summarily rejected. However, EMD is exempted for firms registered with Central Purchase Organization or with Ministry of Mines or Micro and Small Enterprises (MSEs). But the registration certificate should clearly include the name of the item/services they are offering which are manufactured by them and not for selling products manufactured by other firms. Foreign suppliers directly quoting and participating in the tender will also be exempted from EMD and Tender Fee. To avail EMD exemption, the bidder has to quote Udyog Aadhar Memorandum (UAM) registration no. issued by MSME. However, Indian agents / representative quoting on behalf of principals shall pay EMD & Tender Fee. One EMD will be accepted against one bid Ref. page-1 for EMD / Tender Fees.

5. The Bid Security / EMD (as applicable) without interest will be returned to the unsuccessful bidder within 30 days of the award of the Contract / Job. The bid security/EMD of successful bidder will be treated as Performance security. The "Performance Security Deposit" will be released without interest after a period of 60 days beyond the date of completion of all contractual obligations of the supplier including warranty obligations and subject to certification of Indenter / Authorized representative of the Centre.

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ANNEXURE – B (High temperature rotary furnace / Klin)

6. Payment shall be released within 45 days after receipt of items in complete and good condition and complete installation & commissioning and certification of bill by Indenter / Authorized representative of our Centre for domestic supply. **For JNARDDC Excise duty was NIL, GST / Govt taxes as applicable shall be paid as notified by Govt. of India.**

7. Deviation table should be enclosed to outline the deviation (if any) from the tendered technical specification in comparison to the bid quoted. **Simply enclosing our spec sheet without providing any details may lead to rejection of the bid.**

8. **Validity of the Tender should be minimum upto three months.**

9. **LD clause is @ 0.5% of PO value for each week of delay in execution of work as per Work Order.**

10. Warranty terms and delivery period should be clearly mentioned. Item should be delivered upto JNARDDC, Nagpur.

11. **Product leaflet of the item should be enclosed.**

12. Cost should be on Door delivery basis upto JNARDDC, Nagpur.

13. Disputes and Jurisdiction:- Any legal disputes arising out of any breach of contract pertaining to this tender shall be settled in the court of competent jurisdiction located within the city of Nagpur. Decision of Director will be final in all tenders. For any further clarification the contract personnel shall be the Incharge (Purchase & Stores), JNARDDC - purchasejnarddcnagpur@gmail.com

14. The covering letter should clearly contain the details of the contact person’s email id, phone number and name of your firm for communication.

15. **Specific technical specs suitable meeting our Technical requirement are enclosed in Annexure-A.**

16. **Standard warranty terms should be clearly mentioned.**