Domestic Tender notification for the procurement of high temperature heat-treatment furnace (Last date: 10.02.2024)

Dear Sir/Madam,

This is a domestic tender for the procurement of a heat-treatment furnace (refer to Annexure 2 for eligibility criteria). In order to accomplish the goals of a DRDO funded project we plan to acquire a high-temperature heat-treatment furnace. In the following we list the minimum specifications.

Minimum specifications

Furnace

a) Max. Temperature : 1600°C
b) Tube Type/Dimensions (High purity Alumina 99.7% pure) : C799 / L1140 x OD80 x ID70mm in vertical configuration
c) Heated Length : 300 mm
d) Constant Zone (ΔT 10K) : 100 mm
e) Power supply: 400 V AC / 50 Hz / 3 – phase
f) Microprocessor PID controller
g) Graphic display for temperature profile
h) Upto 10 Steps per program including ramp-soak
i) MoSi2 heating elements, mounted vertically for easy replacement; 2 Ceramic Fibre Plugs for tube ends.
j) GLP & GMP compliant Non-rust Textured Stainless Steel Rectangular casing with slots for convection cooling.

Vacuum and gassing system

k) 2 Gas/Vacuum-tight, Water-cooled stainless steel flanges.
l) Mounting support system with Brackets on furnace housing for the tube/flanges.
m) Gassing system for one nonflammable protective gas (Ar forming gas etc.) with shutoff valve & flow meter (50-500 l/hr), piped & ready to connect.
n) Charge Control/Temperature Indicator in Working Tube With external insertable thermocouple through gas-tight end flange; with display & control via main machine controller.
o) Attachments for vertical dropping of sample into quench bath.

Warranty

q) Three years warranty and AMC.
r) Spare parts should be made available during the period of warranty and AMC.

Terms and conditions

1. Two-bid system (separate technical and financial bids) in sealed tenders.
2. The technical bid must clearly specify the prescribed technical specifications without including the prices. Please provide in detail the specifications under each subhead and bullet point. Unique characteristics may be highlighted.

3. Vendors who include price information in the technical bids will be automatically disqualified.

4. Technical bids will be opened first. IISc may seek clarifications after opening of technical bids and may ask vendors to perform some example experiments on the samples given by IISc to demonstrate the promised technical specifications. Vendors may be required to give presentations.

5. There are several items that require detailed information to be provided by the supplier. If information is not provided against any of these items, this will disqualify the supplier.

6. After technical evaluation by a committee, vendors may be asked to re-quote in a specific format to facilitate comparison of prices.

7. Price bids of only technically qualified vendors will be considered.

8. The price must be quoted in INR (Indian Rupee). Quote should come only from Indian Original Equipment Manufacturer (OEM) or their Indian authorized distributor. The quotations should be on FOR-IISc Bangalore basis in INR only.

9. The price should be on FOR-IISc Bangalore basis in INR only.

10. IISc also reserves the right to cancel the tender at any time without assigning any reason whatsoever.

11. Indicate delivery period.

12. Order will be placed on lowest bid from technically qualified vendor.

13. Prices for the individual items should be quoted separately.

14. The tender documents can be sent at the following address:
   The Chairman
   Department of Materials Engineering
   Indian Institute of Science, Bangalore 560012
   Karnataka (INDIA)
   Attn: Prof. Abhik Narayan Choudhury
Annexure 2: Eligibility Criteria

Prequalification criteria:

1. The Bidder should belong to either class 1 or class 2 supplier distinguished by their “local content” as defined by recent edits to GFR. They should mention clearly which class they belong to in the cover letter.
   a) Class 1 supplier: Goods and services should have local content of equal to or more than 50%.
   b) Class 2 supplier: Goods and services should have local content of equal to or more than 20% and less than 50%.

2. Purchase preference as defined by the recent edits to GFR (within the “margin of purchase preference”) will be given to Class-1 supplier.

3. MSME can seek exemption to some qualification criteria. IISc follows GFR2017 for such details.

4. The Bidder must not be blacklisted/banned/suspended or have a record of any service-related dispute with any organization in India or elsewhere.

5. Original Invoice, Original Warranty Certificate, Original Test Reports should be produced for all imported items from OEM (Original Equipment Manufacturer) at the time of supply of the equipments.

6. Details of experienced service engineer including contact detail should be provided in tender document.

7. Bidder shall have to submit audited accounts (Balance sheet profit and loss account) of financial year 2015-16, 2016-17 and 2017-18. Audited statement must be signed and stamped by qualified chartered accounted.


9. Bidder must submit up to date sales tax or GST clearance certificate.

10. Bidders offering imported products will fall under the category of non-local suppliers. They cannot claim themselves as Class-1 local suppliers/Class-2 local suppliers by claiming the services such as transportation, insurance, installation, commissioning, training, and other sales service support like AMC/CMC, etc., as local value addition.