College of Engineering, Pune 411005

Reference No: COEP/MET/STV/2018/202 DATE: 20-04-2018

INVITATION OF TENDER

For

(1) Tubular High Temperature Furnace and

(2) Analytical weighing balance

Department Of Metallurgy and Materials Science

College of Engineering, Pune-411005, India.

Price of Tender Document for each Equipment: Rs. 2000 /- (Rupees Two Thousand Only)

Website: www.coep.org.in

INVITATION OF TENDER

Name of the Work:

Department of Metallurgy and Materials Science, College of Engineering, Pune-411005, India invites sealed separate quotations for supply of

(1) Tubular High Temperature Furnace and

(2)Analytical weighing balance at College of Engineering Pune as per the Part 1: Technical Bid and Part 2: Commercial Bid in the prescribed Bid forms.

Sealed bids are invited for above mentioned equipments at College of Engineering Pune from reputed / experienced organizations who have successfully carried out similar work in the past as mentioned in Part 1: Technical Bid: Annexure-I.

The tender document can be downloaded from the website www.coep.org.in.

Sr. No.	Tender No & Date	Reference No: COEP/MET/STV/2018/202
1	Issue of Tender Forms	From 24-04-2018 to 08-05-2018
2	Last Date of Receipt of Tenders	08-05-2018 before 14:00 Hours
3	Opening of Tenders	08-05-2018 at 15:00 Hours
4	Tenders fees for each equipment	Rs. 2000/- non refundable
5	Correspondence Address	Dr. S T Vagge, Department Of Metallurgy and Materials Science College of Engineering, Pune-411005,Shivajinagar, India. Mobile No:-919158990321 E-mail: stv.meta@coep.ac.in

1. Eligibility Criteria:

1.1 The bidder must have minimum three years of experience in similar kind of work that is, supply of above mentioned equipments.

1.2 The bidder should attach list of reputed customers from educational and research institutes in last three years.

1.3 Bidder should have an appropriate authorization letter/Manufacturer's Authorization form from the principal vendor in reference to this enquiry Reference No: COEP/MET/STV/2018/202

1.4 Bidder should have duly filed Income Tax Returns, Service Tax and other applicable Govt./Statutory body Taxes for the past three years.

1.5 GST Registration Certificate.

1.6 Manufacturer's Authorization form of the Original Equipment Manufacturer (if applicable)

Seal and signature of

Manager / Representative of the firm

On behalf of the firm submitting Tender

Telephone:……Mobile:……

Fax:…… Mail :…….

Contact Person Name and Designation

2. Bidding Process:

The Bid / Tender document will be in two-cover system/envelope - Technical Bid (Part 1) and Commercial Bid (Part 2).

Part 1: Technical Bid - As Annexure I and II specify completely different instruments and therefore they should be submitted in separate envelope containing technical bid from corresponding bidder, documents in support of turnover, client list, Pre-Qualification / Eligibility Criteria, Appendix –A , detailed profile of the agency/organization, tender terms & conditions, Demand Draft of Rs. 2000/- in favour of 'Director, College of Engineering Pune'. - to be submitted in a separate sealed cover for each equipment.

Part 2: Commercial Bid - As per the tender,

a) Commercial bid should be indicated in respective currency (ie in Indian rupees for Indian manufacturer and foreign currency for overseas manufacturer).

b) In Case of Import both CIF and / or FOB rate should be quoted (Our Institute is eligible for customs duty exemption/concession) All components of expenditure for the goods to arrive at Pune need to be explicitly specified.

c) Rates quoted should be inclusive of charges of testing, commissioning and installation of equipment and training.

d) All duties, taxes and other levies payable by the contractor under the contract shall be shown separately.

e) The rates quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
f) As Annexure I and II specify completely different instruments and therefore their commercial bid should be submitted in separate envelope for each equipment.

3. Submission of Tender Documents:

3.1 Format & signing of Bid Document:

The Bid / Tender document will be submitted in the prescribed format in two parts in separate sealed cover super scribing "Supply of

(1)Tubular high temperature furnace

(2) Analytical weighing balance.

at College of Engineering,Pune."

Instruction for submitting bids are given below:

3.1.1 Part 1: Technical Bid – in prescribed format duly signed and sealed

Part1: shall contain the following:

1. A covering letter in the format enclosed and Annexure-I and II separately along with cost of the bid document of Rs. 2000/- by way of DD drawn in favour of 'Director, College of Engineering Pune' of any nationalized / Scheduled Bank payable at Pune.

2. Details of bidders experience and capabilities in the format (Appendix –A).

3.1.2 Part 2: Commercial Bid - in prescribed format duly signed and sealed.

4. Acceptance of Tender conditions:

First envelope should be marked as Part-1: Technical Bid with Reference No: COEP/MET/STV/2018/202,

"(1)Tubular high temperature furnace and/or

(2) Analytical weighing balance

Both technical bids MUST be submitted in separate envelope to

College of Engineering Pune" Due on 08-05-2018 at 14.00 hrs.

4.1 Second envelope should be marked as Part-2: Commercial Bid with Reference No: COEP/MET/STV/2018/202,

"(1)Tubular high temperature furnace

(2) Analytical weighing balance. Both commercial bids MUST be submitted in separate envelope at College of Engineering Pune" Due on 08-05-2018 at 14.00 hrs.

4.2 Both sealed envelopes of Part 1 & 2 are to be put in a single envelope for EACH equipment duly sealed and super-scribed as "Reference No: COEP/MET/STV/2018/202 DATE: 20-04-2018 "(1)Tubular high temperature furnace,

(2) Analytical weighing balance.

Must be submitted on or before 8-05-2018 at 14.00 hrs to Department Of Metallurgy and Materials Science at College of Engineering, Pune-411005. Bids received beyond the closing date / time will not be accepted and will be rejected, unopened.

4.3 The Part 1 (Technical Bid) and Part 2 (Commercial Bid) will be opened on 08-05-2018 at 15.00 hrs at Department Of Metallurgy and Materials Science, College of Engineering Pune, in presence of the bidders' representatives who wish to attend. In the event of any change in the date of opening, the same will be intimated to all.

The Institute reserves the right to accept or reject any bids and to annul the bidding process and reject all bids at any time prior to award of contract, without thereby incurring any liability to the affected bidder or bidders or any obligation to inform the affected bidder.

5. Incomplete tenders will be rejected without consideration.

6. Delivery Period for Item: The items mentioned in the tender should be delivered within eight weeks from the release of purchase order.

7.Supply and Installation:

Bidder shall be responsible for successful Installation, Commissioning and testing of the above mentioned instruments at Department of Metallurgy and Materials Science, College of Engineering Pune, located at Shivaji Nagar Pune. Any defective component/device will be replaced by bidder at his cost.

8.Service Support: Onsite comprehensive Support (parts, labour) has to be provided for a minimum period of 1 year by the bidder from the date of installation and commissioning of systems.

9. Comprehensive Warranty:

One year Comprehensive Warranty. The Supplier shall be fully responsible for the Manufacturer's warranty for all equipment, accessories, spare parts etc. against any defects arising from design, material, manufacturing, workmanship, or any act or omission of the manufacturer / Bidder or any defect that may develop under normal use of supplied equipment during the warranty period. In case the Bidder is unable to fulfil his obligations during the warranty period, the warranty obligations will fully and automatically devolve upon the Manufacturer of the goods. The Bidder shall be fully responsible for getting the product replaced from the principal company or coordinating the same with the principal company during the warranty period.

10. Payment Terms & Conditions: Payment:

100% payment shall be made after successful installation of setups at Department Of Metallurgy and Materials Science, College of Engineering Pune. Payment will be made only after the supply of the item in good and satisfactory condition and commissioning by the supplier. In case of imports, the payment will be made through LC/wire transfer.

11.Offers in bid should be written in English and price should be written in both figures and words in respective currency.

All components of expenditure for the goods to arrive at Pune need to be explicitly specified.

12.The relevant supporting document(s) should be enclosed along with the offer.

13. Quotations received after last date of bid submission will be rejected.

14.No bid will be entertained by E-mail / FAX.

15.The Institute reserves the rights to cancel the tender without any reason thereof and tender fee will not be refunded.

16.The Institute reserves the rights to cancel any of the items of tender without any reason thereof.

17.The Institute reserves the rights to decide the quantity of any of the items of tender for finalizing the purchase order without any reason.

Forwarded -sd-

Director, COEP

Dr. S T Vagge Head,

Principal Investigator Department Of Metallurgy and Material Science, COEP

Appendix –A (To be filled up by the bidder)

Following details required for all bidders

Sr. No.	Name & Full Address of the firm:	Necessary Documents Submitted (Yes/No)
1.	Registered Office with Address (Copy of registration certificate of firm may be enclosed)	
2.	Pan no.	
3.	Previous Purchase order details	
4.	Whether limited company or Pvt. ltd. or Partnership	
5.	Name & Addresses of the person who will represent the firm while dealing with the Institute.	
6.	GST Registration number	
7.	Do you have Technology as your primary business; and are You An Original Equipment Manufacturer Or Authorized Supplier or Dealer (s) ?	
8.	Do you have experience for at least 3 years in the relevant field of supply, installation, commissioning and maintenance of similar project? Have you completed at least one similar project during the previous three years?	
9.	Are you authorized by your principal (for all the respective items) to quote the bid?	
10.	Have you duly filed Income Tax Returns, Service Tax and other applicable taxes for the past three years?	
11.	Have you been blacklisted by any government authority in India? If so, then you will not be eligible. Submit Self-Certification stating you are not blacklisted in the past.	

Seal and signature of Manager /Representative of the firm On behalf of the firm submitting Tender

Telephone:……
Mobile:……
Fax:……
…
Mail:……
Contact Person Name:……
Contact Person Designation:……

Part 1: Technical Bid:

(1) Tubular High Temperature Furnace

(2)Analytical weighing balance

at College of Engineering Pune

FORMAT & REQUIREMENTS

1. Tender Ref. No: …….

2. Name of Tenderer: ……

3. Complete office address of Tenderer……...

4. Contact details of authorized person of tenderer who have signed the tender.

a. Name……

b. Designation……

c. Phone (Office)…….

d. Phone (Mobile)……...

e. E mail……

5. Due date & Time of submission of quotation: …….……

6. Tender fee (if downloaded from website) (DD number & bank details)

7. Submission of technical confirmation to the requirement.

8. Please specify the make and model. Attach technical brochure.
9. Documents to be enclosed with the Technical bid are as under:
 a. Copy of authorization letter from principal manufacturer.
b. Duly signed & stamped Tender documents (All pages) as a mark of your acceptance.

Signature of the tenderer with stamp

Technical Specifications for "Tubular High Temperature Furnace"

ANNEXURE-I*

Item No.	Parameters	Specifications
1	Maximum Temperature	1800^{o} C
2	Continuous Operating Temperature	1700^{o} C
3	Accuracy of Temperature	$\pm 1^{o}$ C to the set temperature (operating Temperature) during the controlled period.
4	Heating Element	Molybdenum Disilicide ($MoSi_2$) heating elements (6 in numbers)
5	Temperature Control	Microprocessor based PID type Programmable Temperature Controller .
6	Temperature control system	The furnace should be provided with automatic temperature control system consisting of following: separate control panel which will house Thyristor power pack, programmable type temperature controller, safety temperature controller and necessary items like ammeter, voltmeter, fuse unit, indicating lamps, other necessary accessories.
7	Construction of the Furnace	Top section of sheet metal construction housing the heating cavity assembly with refractory tube, with its axis horizontal. Base frame should house the Transformer/s with electrical gearing. The furnace should be provided with gas-tight End-Seal/s with O-Rings and integral gas inlet/outlet metallic Pipes, in case of impervious Tubes for Controlled Atmosphere operations. The furnace casing should be fabricated from mild steel plates of thickness of at least1.6 mm. The outside of the furnace should be suitably powder coated to prevent corrosion and rusting. The furnace should also provide opening and closing facility from both end of tube.
8	Insulation	Refractory materials used for insulation should have low heat capacity leading to the skin temperature not more than 30°C above ambient. The insulation should have low shrinkage as compared to conventional ceramic fiber blankets.
9	Electrical Connections	The furnace should be provided with an instrument cum control panel. The panel should house all the temperature control facilities / switch as stated above. It should also house the switch gear components to supply power to heating elements. All electrical components must have suitable safety certifications. The vendors are required to provide certification of each electrical components used.
10	Heating rate	The heating element must be able to support heating rates of at least 6^{o}C/minute in the temperature range of 10^{o}C - 800^{o}C and heating rate of at least 5^{o}C/minute from 800^{o}C to 1800^{0}C.

11	Safety features	Excess temperature protection. Earthing terminal to avoid electrical current leakage. Fuse Unit / Circuit breaker to cut off the supply in case of circuit faults.
12	Safety Temperature Control	Digital type automatic temperature Controller.
13	Control Panel	Consisting of a control panel which will house all necessary switches and controlling units of furnace.
14	Thermocouple	Platinum-Rhodium Thermocouple (Type B) in pure Alumina Sheath inserted into the heating cavity surrounding the hot zone portion of the Furnace Tube through roof of the Furnace cavity connected with required length of Compensating Cable.
15	Power Rating and Power Supply	3 kW or more, 230 V, Single Phase, 50Hz AC
16	Tube details	Recrystallized Alumina with purity greater than 99.5% [The supplier should provide certificate for the genuity of the material] . The tube should be open in both ends. Inner dia:75 mm, Outer diameter : 85 mm. with tube length of at least 600 mm (Heating zone should be of at least 300 mm length)
17	Warranty	Minimum 12 months warranty should be extended to the furnace and its components.
18	Furnace atmosphere	Furnace should be able to operate in normal air, under vacuum or with controlled atmosphere of Argon, nitrogen, carbon dioxide or sulphur dioxide.
19	Vacuum	System can hold the vacuum of 10^{-2} mBar at 1400^{0}C or better, with Ball valve and vacuum bellows upto the vacuum pump. Appropriate accessories and pressure gauges should be included.

***The supplier should quote the gross price of furnace SEPRATELY,**

(1) for item no. 1 to item no. 17 included in ANNEXURE-I

(2) for item no. 1 to item no. 18 included in ANNEXURE-I

(3) for item no. 1 to item no. 19 included in ANNEXURE-I

Technical Specifications for Analytical Weighing balance

ANNEXURE-II

Item no.	Capacity	220g
1	Minimum display / Readability	0.1mg
2	Repeatability:	≤0.1mg
3	Linearity	±0.2mg
4	Response time	≤ 2 sec
5	PAN Size (Diameter)	90 mm
6	Calibration	Built-in automatic calibration weight with internal calibration
7	Display	Proper display for indicating weight
8	Functions	Specific gravity measurement.
9	Built in clock	Yes
10	Power	AC 220 - 240 Volts, 50 - 60 Hz
11	Other	Overload protection, ISO 9001 certified, dust-cover.

Part 2: Commercial Bid

Tender Ref. No.: ……
Name of the Tenderer/Bidder: ……..

Item No.	Brief Description of Equipment	Qty in Nos	Rate per unit	Taxes (To Clearly and separately specify all the type of taxes and duties in percentages and also in figures) Similarly write other components like GST, Customs duty, transport, packing & forwarding etc. which are applicable in your case	Total Cost (FOR COEP, Pune) (Inclusive of all taxes)
1	**Tubular High Temperature Furnace**	1			
2	**Analytical weighing balance**	1			

[Covering letter to submitted by the bidder on letter head]

To,
The Director, College of Engineering, Pune Pune -411005,

Sub: Tender for **(1)"Tubular High Temperature Furnace" and/or**

(2)Analytical weighing balance at College of Engineering Pune.

Sir,

I have carefully gone through the tender document regarding the prequalification of agencies/ vendors for **(1)"Tubular High Temperature Furnace" and/OR**

(2)Analytical weighing balance , at College of Engineering,Pune.

I shall be bidding in this tender as the sole representative of my company. I hereby declare that

1. All the information related to my company, customer base, projects, financial details, data sheet of the products offered etc., provided in my offer is true and without any alteration /modification.
2. All the provisions of this tender document are acceptable to my company. No violation of the terms and conditions as mentioned in the tender document has been made.
3. I declare that my company or any member of the company has not been debarred / black listed by any Government / Semi –Government organizations in India.
4. I certify that the period of validity of bid is 120 (one hundred and twenty) days from the last date of submission of proposal I further certify that I am authorized signatory of my company and I am, therefore competent to make this declaration.

Yours faithfully,
(Signature of the bidder)
Seal and signature of Manager /Representative of the company/firm On behalf of the company/ Firm submitting tender
Telephone: ……..
Mobile: ……..
Fax…….
Mail: ……
Contact Person Name: …….
Contact Person Designation: ……