Bundelkhand Institute of Engineering & Tech., Jhansi, Uttar Pradesh, 284128

INVITATION LETTER

Package Code: TEQIP-III/UP/biej/103 **Current Date: 03-Dec-2019**
Package Name: ME-Thermal Cyclic Fatigue Programmable Furnance **Method: Shopping Goods**

To,

Sub: INVITATION LETTER FOR ME-Thermal Cyclic Fatigue Programmable Furnance

Dear Sir,

1. You are invited to submit your most competitive quotation for the following goods with item wise detailed specifications given at Annexure I,

Sr. No	Item Name	Quantity	Place of Delivery	Installation Requirement (if any)
1	Thermal Cyclic Fatigue Programmable Furnance	1	BIET, Jhansi	Yes

2. Government of India has received a credit from the International Development Association (IDA) towards the cost of the **Technical Education Quality Improvement Programme [TEQIP]-Phase III** Project and intends to apply part of the proceeds of this credit to eligible payments under the contract for which this invitation for quotations is issued.

3. **Quotation**

3.1 The contract shall be for the full quantity as described above.

3.2 Corrections, if any, shall be made by crossing out, initialling, dating and re writing.

3.3 All duties and other levies payable by the supplier under the contract shall be included in the unit Price.

3.4 Applicable taxes shall be quoted separately for all items.

3.5 The prices quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.

3.6 The Prices should be quoted in Indian Rupees only.

4. Each bidder shall submit only one quotation.

5. Quotation shall remain valid for a period not less than **60**days after the last date of quotation submission.

6. Evaluation of Quotations: The Purchaser will evaluate and compare the quotations determined to be Substantially responsive i.e. which

6.1 are properly signed; and

6.2 Confirm to the terms and conditions, and specifications.

7. The Quotations would be evaluated for all items together.

8. Award of contract The Purchaser will award the contract to the bidder whose quotation has been determined to be substantially responsive and who has offered the lowest evaluated quotation price.

8.1 Notwithstanding the above, the Purchaser reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of Contract.

8.2 The bidder whose bid is accepted will be notified of the award of contract by the Purchaser prior to expiration of the quotation validity period. The terms of the accepted offer shall be Incorporated in the purchase order.

9. Payment shall be made in Indian Rupees as follows:

Payment Description	**Expected Delivery Period (in Days)**	**Payment Percentage**
Satisfactory Delivery & Installation	30	90
Satisfactory working after one month of Installation	30	10

10. Liquidated Damages will be applied as per the below:
Liquidated Damages Per Day Min %: N/A
Liquidated Damages Max %: N/A

11. All supplied items are under warranty of **36** months from the date of successful acceptance of items and AMC/Others is **.**

12. You are requested to provide your offer latest by **15:00** hours on **17-Dec-2019.**

13. Detailed specifications of the items are at Annexure I.

14. Training Clause (if any) **Yes**

15. Testing/Installation Clause (if any) **Yes**

16. Performance Security shall be applicable**: 0%**

17. Information brochures/ Product catalogue, if any must be accompanied with the quotation clearly indicating the model quoted for.

18. Sealed quotation to be submitted/ delivered at the address mentioned below,
TEQIP-III Coordinator
First Floor Civil Engineering Building
Bundelkhand Institute of Engineering & Tech., Jhansi Uttar Pradesh, 284128

19. We look forward to receiving your quotation and thank you for your interest in this project.

(Prof. Mukesh Shukla)
Nodal Officer Procurement

Annexure-1

Specification of Thermal cycling furnace

- Furnace plate form size :- 250 mm (W) X 250 mm (D) X 150 mm (H)or more.
- Power rating :- 4 to 5 KW,
- Maximum Temperature : 1200 °C with an accuracy of +/- 1% or better
- Heating element : Silicon Carbide heating element 6 Nos. or more.
- Programmable test cycles : 8 segments programming.
- Number of Heating and cooling chambers : 2 stages, 1 heating chamber, 1 cooling chamber in build in the furnace.
- Duration of heating and sequence of operation : controlled by a programmable controller.
- Furnace dwell time : 0-99 min
- Temperature regulator : Pre-settable
- Indicator for cycle of operation : Non volatile cycle counter to indicate cycles of operation.
- Cycle counter : 1 to 9999 pre-Settable
- Record output: 5V.
- Cooling Forced air.
- Smooth vibration free movements to eliminate mechanical shock on heated elements must be there.
- Additional heating elements and thermocouple must be provided.
- Power supply : 3 PH AC, 50 Hz.
- Power control : Through thyristorised system.
- **Casing:** Furnace must be compact in size. The furnace is a separate unit and the programmable controller will be another unit. The furnace body is of mild steel / SS with powder coating finish.
- **Insulation:** Vacuum formed ceramic fiber insulation to reduce heat loss and minimize the skin temperature.
- Thermocouple: R type thermocouple Duplex or better.
- Temperature programmer: Must be capable to controlling the heating rate and cooling rate, Eurotherm programmer 2416 or better.
- Manual /auto restart with initialization on restoration of power after output.
- **Control panel**: Control panel fully wired with ammeter, voltmeter, Euro them programmer 2416 BTC, current transformer. MCB to switch on the main supply, indicator lamps, ferruled and ready for connection. Anto manual switch to change over between auto and manual mode of operation. Separate ON/OFF switches for furnace power and heater.
- PID controller - To control and regulate the temperature of the furnace.
- Thermocouples must be connected with the programmable controller and safety device among other related system.
- Up and down motion of the furnace door must have manual and automatic control.
- Equipment must be supplied with calibration thermocouples
- Equipped with damage monitoring of sample.
- All calibrations will be as per NABL certified Lab with certification for 1 year from NABL
- The products will be CE certified with certificate attached
- The products will be ISO 9001 certified with certificate attached.
- Previously supplied Thermal Cyclic Fatigue furnaces reference details are attached with purchase order proof and contact person details.
- Balance sheet for previous 3 years have been attached for your reference.
- Sales tax & IT return for the last 3 years attached.
- Warranty/ guarantee of 36 months including spares and services.

19/11/19

19/11/19

FORMAT FOR QUOTATION SUBMISSION
(In letterhead of the supplier with seal)

Date: _____

To:_____
_____

Sl. No.	Description of goods \ (with full Specifications)	Qty.	Unit	Quoted Unit rate in Rs. (Including Ex-Factory price, excise duty, packing and forwarding, transportation, insurance, other local costs incidental to delivery and warranty/ guaranty commitments)	Total Price (A)	Sales tax and other taxes payable	
						In %	In figures (B)
Total Cost							

Gross Total Cost (A+B): Rs. _____

We agree to supply the above goods in accordance with the technical specifications for a total contract price of Rs. ———————— (Amount in figures) (Rupees ————————amount in words) within the period specified in the Invitation for Quotations.
We confirm that the normal commercial warranty/ guarantee of ———————— months shall apply to the offered items and we also confirm to agree with terms and conditions as mentioned in the Invitation Letter.
We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in bribery.

Signature of Supplier
Name: _____
Address: _____
Contact No. _____