



National Institute of Technology, Nagaland, Chumukedima,
Dimapur, Nagaland-797103

INVITATION LETTER

Package Code: TEQIP-III/nitr/13

Current Date: 18-July-2019

Package Name: RAPID THERMAL PROCESSING

Method: Shopping Goods

Sub: INVITATION LETTER FOR RAPID THERMAL PROCESSING

Sir/Madam,

1. You are invited to submit your most competitive Sealed Quotations 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.	Rapid Thermal Processing (Detailed specifications given at Annexure I)	1	NIT Nagaland	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.

TEQIP-III Project Coordinator
National Institute of Technology Nagaland
Dimapur -797103, Nagaland

- 3.6 The Prices should be quoted in Indian Rupees only. Goods/Equipments should be brand new.
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:
- Delivery and Installation - 90% of total cost**
 - Satisfactory Acceptance - 10% of total cost**
10. Liquidated Damages will be applied:
- Liquidated Damages Per Day Min % : 0
 - Liquidated Damages Max % : 0
11. All supplied items are under warranty of **Twelve (12)** months from the date of successful acceptance of items.
12. You are requested to provide your offer latest by **12:00** hours on **01-Aug-2019**.


TEQIP-III Project Coordinator
National Institute of Technology Nagaland
Dimapur -797103, Nagaland

13. Detailed specifications of the items are at Annexure I.
14. Training Clause (if any) **Yes**
15. Testing/Installation Clause (if any) **Yes**
16. Information brochures/ Product catalogue, if any must be accompanied with the quotation clearly Indicating the model quoted for
17. The tender document shall be submitted/delivered in a sealed envelope bearing the following reference on the top left corner: **Package Code: TEQIP-III/nitn/13 Dated: 18-07-2019** latest by **12:00** hours on **01-Aug-2019** and addressed to: **The Registrar, National Institute of Technology, Nagaland, Chumukedima, Dimapur, Nagaland-797103.**
18. The bidder should furnish the certificate of GST registration, PAN, and IT Returns of last three years.
19. The Bidder should have experience of executing at least 5 (Five) Purchase Order of Equipment/Machines from any IITs /NITs/ Central Govt. Institutions or Educational & Research Institutions of National Repute.
20. Vendors should clearly state the available nearest after sales service facilities in the region, without which their offers will be rejected.
21. The bidder should be the manufacturer or authorised dealer and, in such case, the certificate of dealership from the manufacturer should be produced.
22. **Performance Bank Guarantee (PBG):** The supplier shall furnish an unconditional PBG for 5% of the Purchase Order value for a period of one year from a scheduled Bank of India, within 21 days from the date of delivery and installation of the work. Where the PBG is obtained by a foreign bank, it shall be got confirmed by a Schedule Indian bank and shall be governed by Indian Laws and be subject to the jurisdiction of courts at Dimapur. The PBG shall guarantee that,
 - a) The Vendor guarantees satisfactory operation of the Equipment & components against poor workmanship, bad quality of materials used, faulty designs and poor performance.
 - b) The Vendor shall, at his own cost, rectify the defects/replace the items supplied, for defects identified during the period of guarantee.
23. The bidder should produce Audited statement of accounts for the last 3 years.


TEQIP-III Project Coordinator
National Institute of Technology Nagaland
Dimapur -797103, Nagaland

24. **Disputes and Jurisdiction:** Any legal dispute arising out of any breach of contract pertaining to this order shall be settled in the court of competent jurisdiction located within Dimapur in Nagaland.

25. **All the supporting documents should be attached with the quotation, without which the tender will be completed rejected.**

26. The Institute reserves the right to accept in part or in full any quotation(s) or reject any or more quotation(s) without assigning any reason or to cancel the tendering process and reject all quotation(s) at any time prior to award of contract, without incurring any liability, whatsoever to the affected bidder or bidder(s).

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



TEQIP-III COORDINATOR

18-07-2019

TEQIP-III Project Coordinator
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Annexure I

Sr. No	Item Name	Qty	Specifications
1.	Rapid Thermal Processing	1	<p>1500°C Max Tube Furnace (50mm OD) with Sliding Flanges for Fast Heating/Cooling</p> <p><u>Specification:</u></p> <ul style="list-style-type: none"> • Furnace Structure: <ul style="list-style-type: none"> ✓ One sliding flange is installed on right side furnace, which can move processing tube in & out easily. ✓ Vacuum flanges can reach 10E-5 torr by molecular pump or 10E-3 torr by a mechanical pump. The flange has a 1/4" Dia. the thermal couple built in for monitoring real-time temperature inside the tube. ✓ <u>Digital vacuum gauge is installed the flange</u> ✓ RS485 port included for computerized control • Power: 2.5KW (20A breaker required) • Voltage: AC 208-240V Single Phase, 50/60 Hz • Max. Temperature: 1500°C • Continuous Temperature: 1400°C • Temperature Accuracy: +/- 1 °C • Heating Zone Length: 6" (152 mm) • Constant Temperature Zone: 100 mm (+/-1°C) @ 800 - 1500 °C • Heating Elements: SiC rod (1500C grade) , 4 pcs • Thermocouples: Two S type thermal couples are included. One S type 5" Length is built in furnace to control furnace temperature (below left) and <u>another S type 14"</u> inserted inside tube to monitor sample real temperature profile. • Temperature Controller <ul style="list-style-type: none"> ✓ Two digital temperature controllers with 30 programmable segments are built in. One control furnace temperature and another monitor temperature of the sample inside processing tube. ✓ Built-in over temperature alarm and protection allows for operation without an attendant. ✓ +/- 1 °C temperature accuracy. • Heating & Cooling Rate <u>Temp vs Time curve (Mullite tube)</u> <u>Heating speed:</u> 10°C/sec (RT - 800°C); 7°C/sec (800°C - 1000°C); 4°C/sec (1000°C - 1100°C); 3°C/sec (1100°C - 1200°C); 1.5°C/sec (1200°C - 1300°C); 0.7°C/sec (1300°C - 1350°C) <u>Cooling speed:</u> 14°C/sec (1350°C - 1000°C); 7°C/sec (1000°C - 800°C); 5°C/sec (800°C - 600°C);

		<p>3.76°C/sec (600°C - 500°C); 2.5°C/sec (500°C - 400°C); 1.36°C/sec (400°C - 300°C)</p> <p><u>Temp Vs Time curve (Quartz tube)</u></p> <p><u>Heating speed:</u> 30°C/sec (RT - 500°C); 12°C/sec (500°C - 800°C); 5°C/sec (800°C - 900°C); 3.6°C/sec (900°C - 1000°C); 1°C/sec (1000°C - 1100°C);</p> <p><u>Cooling speed:</u> 16°C/sec (1100°C - 800°C); 9°C/sec (800°C - 600°C); 5°C/sec (600°C - 500°C); 3.6°C/sec (500°C - 400°C); 2.5°C/sec (400°C - 300°C);</p> <ul style="list-style-type: none"> • Processing Tube Size (one mullite tube and one quartz tube to be supplied) One end Closed mullite tube made in the USA, Size: OD: 50mm x ID 44mm x 304.8mm L. Max. Working Temp. 1500°C in air. Max. Temp. 1300°C in vacuum. One end closed quartz tube Size: OD: 50mm x ID 44mm x 304.8mm L. Max. Working Temp. 1200°C in air. Max. Temp. 1000°C in vacuum. • Sliding Flange: Double sliding rail made by Cr-plated steel; Sliding length: 350 mm. • Vacuum Seal & Digital Vacuum Gauge: One stainless steel flange with 1/4" Dia fitting for insect thermal couple & One digital vacuum gauge and valves are included • Vacuum level: 10E-2 torr by a mechanical pump • The vendor should provide suitable pump along with the system
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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: _____


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