

National Institute of Technology, C.G.

INVITATION LETTER

Package Code: TEQIP-III/nitr/10

Current Date: 24-Jul-2019

Package Name: GIII-02

Method: Shopping Goods

To,

Sub: INVITATION LETTER FOR GIII-02

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	Micro Hardness Tester	1	Department of Mechanical Engineering , National Institute of Technology, Raipur, chhattisgarh	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 **55** 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.
- 6.3 The Tenderer / Bidder need to submit the following certificates along with the quotation to
- * Confirm their eligibility:
 - * Proof of establishment of Firms/shop/business/manufacturing unit etc. and Dealership certificate from the principals etc.
 - * GST certificate should be enclosed
 - *Previous Purchase order copy.
7. The Quotations would be evaluated for all items together.
- * As per government notification No.45/2017-Central Tax (rate), dated 14 Nov 2017, NIT Raipur is eligible to get concessional GST rate of 5% on purchase of equipment mentioned in Notification used for research purpose only. In this regard NIT Raipur will be providing following mentioned documents for concession :
- a. DSIR Certificate Copy;
 - b. Certificate to supplier for purpose of GST Concession (on the Institute's Letter Head).
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:

Satisfactory Delivery & Installation - 0% of total cost

Satisfactory Acceptance - 100% of total cost

10. Liquidated Damages will be applied as per the below:

Liquidated Damages will be applied as per the below:

-Maximum one month extension in delivery period may be given on the receipt of written request of the successful vendor; however liquidated damage at the rate of 5% per month or part thereof will be recovered from the firm of the value of undelivered goods. Request for extension in delivery period should be made before the last date of supply as mentioned in purchase order.

11. All supplied items are under warranty of **12** months from the date of successful Installation.

12. You are requested to provide your offer latest by **15:00** hours on **30-Aug-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: Performance Security shall be applicable: Performance Security (PS):The successful bidder has to furnish "Performance Security of 10% of the ordered value in Indian Rupee", in the form of Account Payee Demand Draft, / Fixes deposit and/or unconditional Bank guarantee encashable on demand from the Director, NIT, Raipur, from a nationalized Bank with validity period of sixty (60)days beyond the date of completion of all contractual obligations of supplier including guarantee/ warranty obligations. The Performance Security is to be furnished in favor of the Director, National Institute of Technology, Raipur, within ten days of intimation. The performance security will be discharged by the Purchaser and returned to the Supplier not later than 60 days following the date of completion of the Supplier's performance obligations, including any warranty obligations.

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,
Registrar
National Institute of Technology, Raipur,
G E Road, Raipur 492010
19. We look forward to receiving your quotation and thank you for your interest in this project.

Registrar
NIT Raipur

Annexure I

Sr. No	Item Name	Specifications
1	Micro Hardness Tester	<p>Technical Specification of Micro Vickers Hardness Tester</p> <p>1) Indenter:</p> <ul style="list-style-type: none"> • Certified Vickers indenter (UKAS, PTB, NABL etc.) to ISO 6507-2:2018 and ASTM E384-17. The indenter must be calibrated and certified in the micro Vickers range only! <p>2) Optical System:</p> <ul style="list-style-type: none"> • Light Source : LED • Objective Lens with Holder:40x &10 x Minimum measurement resolution 0.1 μm using a 40x objective (manual and automatic). • Illumination : LED light & Automatic illumination setting.Dual light path so that the indentation can be measured simultaneously either with the manual measurement eyepiece or automatically with the USB camera. <p>3) Test Force:</p> <ul style="list-style-type: none"> • Range : 10 – 2,000 gf • No of Steps : 9 (provision for arbitrary steps) • Test Force Accuracy : ≤ ± 0.5% from 10 to 2,000 gf • Loading Technique : Fully automatic, PC Controlled • Indenter Dwell time :5-60 or wider (Adjustable) • Loading Unit : Automatic Loading &Automatic Force Changing. <p>4) Measurement Micro Scope:</p> <ul style="list-style-type: none"> • Camera : Minimum 1.4 MP USB camera • Turret : Motorized turret carrying minimum two numbers of Indenters and 4 numbers of objective lenses. • Effective Measurement Range: 120μm X 90μm (with 40x lens) • Indentation Measurement Resolution:0.1 μm (Automatic and Manual) <p>5) XY Stage:</p> <ul style="list-style-type: none"> • Type : Manual with Digital Micrometer • Area : 100mm X 100mm • X & Y travel : 25×25 mm and a resolution of 0.01 mm. • Max Sample Height : 150mm from tip of indenter to the top of the leadscrew. <p>6) Vise& Anvil :Component vise& 100 mm x 100 mm hardened and ground anvil</p> <p>7) Test Blocks:Certified calibration test blocks (UKAS, PTB, NABL etc.) to ISO 6507-2:2018 and ASTM E92-17 and ASTM E384-17 as follows:</p>

- * < 200 HV0.1 and HV0.5
- * 300 to 400 HV0.3 and HV1
- * > 700 HV0.5 and HV2

8) Software :

- Automatic indentation measurement software which has measurement algorithm for automatically measuring Vickers and Knoop indentations in different material and different surface finishes.
- Focus meter within the software to ensure perfect focus prior to measurement.
- Ability to define indentation traverse pattern for effective cases depth determination of heat treated specimens.
- Ability to store indentation images.
- Ability to transfer hardness results to data storage and analysis software, allowing statistical analysis, graphing and report generation in PDF, Word and Excel.

9) External Output (Desktop to be provide by the following specifications):

- USB : Communication with PC (i7, 16GB RAM, and 1TB hard disk with 23 or more inches TFT colour monitor, windows 10, Keyboard, and Mouse)
- Printer : Ink Jet (High Quality)

10) Fractured Toughness Measurement:

- Measure the length of cracks created by indenter, so it is possible to measure the fractured toughness in Brittle material.

11) The Instrument manufactured by an ISO 17025 accredited hardness laboratories with third party accreditation (UKAS, PTB, NABL etc.) Instrument, test blocks and indenters to be independently accredited by a third party such as UKAS, PTB, NABL etc.

Additional Accessories:

- Objective Lens 20x
- Certified Knoop indenter (UKAS, PTB, NABL etc.) to ISO 4545-2:2017 and ASTM E92-17. The indenter must be calibrated and certified in the micro Knoop range only!

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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. _____