



**National Institute of Technology, Meghalaya,  
Bijni Complex, Laitumkhrah, Shillong 793003**

**INVITATION LETTER**

Ref. No.: TEQIP III/2019/NITMGH/Shopping/183

Date: 28-Jun-2019

Package Code: TEQIP-III/2019/nimt/101

Current Date: 28-Jun-2019

Package Name: NITMGH/TEQIP III/ME/017 (50 Ton Servo Injection Molding Machine)

Method: Shopping Goods

To,

**Sub: INVITATION LETTER FOR NITMGH/TEQIP III/ME/017 (50 Ton Servo Injection Molding Machine)**

Dear Sir,

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	50 Ton Servo Injection Molding Machine	01	National Institute of Technology Meghalaya Bijni Complex, Laitumkhrah Shillong-793003, Meghalaya, India	Yes

1. 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.

**2 Quotation**

- 2.1 The contract shall be for the full quantity as described above.
- 2.2 Corrections, if any, shall be made by crossing out, initialling, dating and re writing.
- 2.3 All duties and other levies payable by the supplier under the contract shall be included in the unit Price.
- 2.4 Applicable taxes shall be quoted separately for all items.
- 2.5 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.

- 2.6 The Prices should be quoted in Indian Rupees only.
3. Each bidder shall submit only one quotation.
  4. Quotation shall remain valid for a period not less than **45** days after the last date of quotation submission.
  5. Evaluation of Quotations: The Purchaser will evaluate and compare the quotations determined to be Substantially responsive i.e. which
    - 5.1 are properly signed; and
    - 5.2 Confirm to the terms and conditions, and specifications.
  6. The Quotations would be evaluated for all items together.
  7. 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.
    - 7.1 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.
    - 7.2 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.
  8. Payment shall be made in Indian Rupees as follows:  
  
**Satisfactory Delivery & Installation - 10% of total cost**  
**Satisfactory Acceptance - 90% of total cost**
  9. Liquidated Damages will be applied as per the below:  
Liquidated Damages Per Day Min % :N/A  
Liquidated Damages Max % : N/A
  10. All supplied items are under warranty of **24** months from the date of successful acceptance of items and AMC/Others is **As Applicable**.
  11. You are requested to provide your offer latest by **14:00** hours on **15-Jul-2019**.
  12. Detailed specifications of the items are at Annexure I.
  13. Training Clause (if any) **Yes**
  14. Testing/Installation Clause (if any) **Yes**
  15. Performance Security shall be applicable: **0%**

16. Information brochures/ Product catalogue, if any must be accompanied with the quotation clearly indicating the model quoted for.
17. Sealed quotation to be submitted/ delivered at the address mentioned below, **National Institute of Technology, Meghalaya, Bijni Complex, Laitumkhrah, Shillong 793003**
18. For authenticity/genuineness of the quoted product, the firm should be a reputable, well established and suppliers of the goods or services as part of their normal business.
19. **Technical Presentation:** If necessary then the authority may ask the technically qualified bidders to give full presentation or live demonstration of the Quoted equipment at NIT Meghalaya before finalization of the tender as a support of their specification.
20. Dealership Certificate: The bidder/tenderer should be either a manufacturer or authorized dealer of the foreign/Indian manufacturer. Dealers or Agents quoting on behalf of Manufacturer must enclose valid dealership certificate.
21. We look forward to receiving your quotation and thank you for your interest in this project.

*Dr. B. M. ...*  
28/6/2019.

(Authorized Signatory)

Name & Designation

Coordinator  
TEQIP-III  
National Institute of Technology  
Meghalaya

**Annexure I**

Sr. No	Item Name	Specifications
1	50 Ton Servo Injection Molding Machine	<p><b>Injection Unit</b> Screw diameter: 30-35 mm Stroke volume: 120-130 cm<sup>3</sup> Injection weight max: 120-130 g Injection rate: 90-100cm<sup>3</sup>/s Plasticizing rate: 10-12 g/s Injection Pressure: 1500-2000 bar</p> <p><b>Clamping Unit</b> Clamping force: 500-800 kN Mold opening stroke: 200-220 mm Mold thickness, min.-max: 150-320mm Ejector stroke: 40-50mm Ejector force: 25-30 kN Ejector number: 1pcs Should be driven by the energy efficient servo mechanism. About 20 to 50% energy saving compared to a conventional hydraulic machine.</p> <p><b>CLAMP Should Consist of:</b></p> <ul style="list-style-type: none"> <li>Sturdy and optimized five-point double toggle system, along with good mold safety characteristics.</li> </ul>

- Sturdy and optimized platen design.
- Hard chrome plated, high tensile steel tie bars.
- Stress-relieved sturdy machine base frame.
- Closing and opening speeds, pressures and positions independently sellable. Each programmable in 05 stages.

**Ejector Should Consist of:**

- Central hydraulic ejector with multiple stroke features. Speed, pressure and position should be independently sellable in both directions.
- Linear position transducer for precise ejector position.
- Ejector forward speed and pressure programmable.

**Injection Should Consist of:**

- Wide choice of injection units with A/B/C screw/barrel combinations.
- Fitted with nitrided screw and nitrided barrel, non-return valve and barrel closure assembly with open nozzle suitable for various plastics.
- Programmable (06) injection speed and pressure, position dependent stages.
- Programmable follow up/hold on pressure profile, time dependent stages.
- Programmable screw speed control profile.

**Temperature Control Should Consist of:**

- 5 self-optimizing temperature control zones/circuits for the barrel and nozzle flange heating system.
- PID controlled barrel heater bands, with solid state relays and fast blowing semiconductor fuses for barrel heating system.

**Controls Should Consist of:**

- Intelligent operator-machine interface with large, TFT, multi-color display, with alpha numeric keyboard.
- Actual position measuring/indicating system for moving platen, screw travel and ejector.
- Overview screen with live display of machine operations.

**Hydraulics Should Consist of**

- Highly energy efficient hydraulic drive system with gear pump and servo motor.
- Ergonomically designed easy to access and easy to service hydraulic circuit layout.
- Fast responding hydraulic door with safety interlock.

**A die for fabricating tensile, flexural and impact test specimens as per ASTM standards.**

**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)
<b>Total Cost</b>							

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. \_\_\_\_\_