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

INVITATION LETTER

Ref No.: TEQIP III/2019/NITMGH/Shopping/134 **Date: 29.03.2019**
Package Code: TEQIP-III/2019/null/nimt/75 **Current Date: 29-Mar-2019**
Package Name: NITMGH/TEQIP III/ME/010 **Method: Shopping Goods**

To,

Sub: INVITATION LETTER FOR NITMGH/TEQIP III/ME/010 (Twin Cylinder, Dual Fuel, Turbocharged, Diesel Engine Set-up with Open ECU System)

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	Twin Cylinder, Dual Fuel, Turbocharged, Diesel Engine Set-up with Open ECU System – 1 unit	1	National Institute of Technology Meghalaya, Bijni Complex, Laitumkhrah, Shillong 793003	As applicable

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 % : 0
   Liquidated Damages Max % : 10

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 **12-Apr-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.

29/3/19

Coordinator (i/c)
TEQIP- III
National Institute of Technology
Meghalaya

(Authorized Signatory)
Name & Designation

Annexure I

Sr. No	Item Name	Specifications
1	Twin Cylinder, Dual Fuel, Turbocharged, Diesel Engine Set-up with Open ECU System – 1 unit	1. Cylinders-02, Volume-900 cc, 2. Torque/Power - 98 Nm @1800 – 3000 RPM; 3. Water Cooled, CRDi Technology with Solenoid Injectors (maximum 1400 bar); 4. Turbocharger, Exhaust Gas Recirculation (Vacuum control) ; eddy current dynamometer; 5.Open ECU for complete control of the engine parameters (Fuel Qty., Rail Pressure, No. of Injections, Injection Timings, EGR Rate, Speed etc.), Cruise Control for constant speed Engine test, Throttle pedal for variable speed engine test ; 6.Necessary software/data files for ECU; 7.Necessary Calibration Hardware Tools; 8. PC based software to interact with the Engine ECU; 9. Wiring Harness as per requirement; Data acquisition facility for combustion analysis. 10. DPF system as per suitable engine specification.

		11. Engine dual-fuel operation using CNG, H2, LPG should be provided along with option to switch to the Gasoline system. 12. ECU Scanning Tool- Engine Control Unit (ECU) scanning tool should be provided with the equipment for finding the engine trouble codes. The ECU Scanning tool should include all the trouble codes covering cam position sensor, crank position sensor, Mass air flow sensor, Coolant temperature sensor, EGR Valve functionality, Injectors, Rail pressure sensor and diesel regulating valve etc. 13. The supplier should demonstrate the engine working for various Fuel Combinations. Also, the components, subcomponents and software required for this tests should all be included during demonstration and the supplier should show the multiple injections by using some measuring device like oscilloscope etc.

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. _____