

निविदा / कोटेशन के लिए आमंत्रण  
**INVITATION FOR TENDER / QUOTATION**

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मोतीलाल नेहरू राष्ट्रीय प्रौद्योगिकी संस्थान इलाहाबाद  
इलाहाबाद-211004 (भारत)  
Motilal Nehru National Institute of Technology Allahabad  
Allahabad-211004 (India)  
*An Institute of National Importance as Declared by NIT Act, GOI, 2007*

**INVITATION FOR QUOTATION**

TEQIP-II/2015/MNNIT/Shopping/

06-April-2016

To,

**Sub: Invitation for Quotations for supply of Goods**

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.	Brief Description	Qty.	Delivery Period (In days)	Place of Delivery	Installation Requirement (if any)
1	<b>MODULAR DIAGNOSTIC SYSTEM FOR IC ENGINE AND VEHICLES</b>	01 No.	60	MNNIT Allahabad	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 II** 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, initialing, 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.
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. All supplied items are under warranty of **12** months from the date of successful acceptance of items.
11. You are requested to provide your offer latest by **12:00** hours on **21-April-2016**.
12. Detailed specifications of the items are at Annexure I.
13. Training Clause (if any) **Training should be provided onsite at MNNIT Allahabad**
14. Testing/Installation Clause (if any) **Testing/Installation should be done onsite at MNNIT Allahabad**
15. Information brochures/ Product catalogue, if any must be accompanied with the quotation clearly indicating the model quoted for.
16. Sealed quotation to be submitted/ delivered at the address mentioned below,  
Director, MNNIT Allahabad Teliarganj, Allahabad-211004
17. We look forward to receiving your quotation and thank you for your interest in this project.

Faculty In Charge (Purchase)

## Annexure I

### MODULAR DIAGNOSTIC SYSTEM FOR IC ENGINE AND VEHICLES

The modular diagnostic system for IC engine and vehicles should be compatible with Spark Ignition and Compression Ignition Engines running on various fuels such as gasoline, diesel, biodiesel, CNG and LPG. It should consist of following modules:

1. Module to measure all regulated gases like CO, CO<sub>2</sub>, HC NO<sub>x</sub> and O<sub>2</sub> with following specifications:

Measurand	Measuring Range	Resolution
CO	0-15% vol.	0.01% vol.
CO <sub>2</sub>	0-20% vol.	0.1% vol.
HC	0-30,000 ppm vol.	Ö2,000:1 ppm vol. < 2,000:10 ppm vol.
O <sub>2</sub>	0-25% vol.	0.01% vol.
NO <sub>x</sub>	0-50,000 vol.	1 ppm vol.
Lambda	0-9,999	0.001%

2. Module to measure Particulate Matter (soot) in the exhaust with following specification:

Technical Data	
Operating Temperature	+5 to +40°C
Humidity	Max. < 90%, non-condensing
Nominal Voltage	230 VAC
Voltage Range	80 ó 260 VAC
Frequency	40 ó 60 Hz
Opacity Chamber	
Measurement Length	Around 215 mm
Maximum emission temperature	200°C
Opacity	Measurement Range: 0- 99.9% Resolution: 0.1 %
Absorption (k-value)	Measurement Range: 0- 99.9% Resolution: 0.01 %

3. Module to measure Lubricating oil temperature and rpm with following specification:

RPM Diesel Engines	400- 6,000
RPM Gasoline Engines	400- 8,000
Lube oil temperature	-10 - +145°C
Climatic conditions	
Operating Temperature	+4 - +50°C
Storage Temperature	-20 - +50°C
Humidity	10 ó 90%

Module should be compatible to interface with cylinder pressure sensor, angle encoder and stroboscope for measuring cylinder pressure, piston position and crankshaft angular velocity.

The connection should be through RS 232 cable or Bluetooth class 1 connection. The module should work in an operating temperature range between +5 to +50°C and humidity 10 to 90%.

**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: \_\_\_\_\_