



**GOVT. COLLEGE OF ENGINEERING,
AMRAVATI – 444 604**

*(An Autonomous Institute of Govt. of Maharashtra)
Towards Global Technological Excellence*

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INVITATION FOR QUOTATION

TEQIP-II/2015/MH2G06/Shopping/99/4278

26-Aug-2015

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. No	Brief Description	Quantity	Delivery Period(In days)	Place of Delivery	Installation Requirement (if any)
1	EMISSION ANALYZER FOR DIESEL ENGINE EXHAUST	1	60	Govt. College of Engineering, Amravati	Installation required

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 **50**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 **17:00**hours on **30-September 2015**.
12. Detailed specifications of the items are at Annexure I.
13. Training Clause (if any) **Training required**
14. Testing/Installation Clause (if any) **Testing & Installation required**

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,

The Principal, Govt. College of Engineering, Near Kathora Naka Amravati Maharashtra 444604

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

Note: Quotation must be supplied with the relevant information brochures and photographs of the equipment mentioning the Make, Model etc.

Principal
Govt. College of Engineering, Amravati

Annexure I

Sr. No	Item Name	Specifications
1	EMISSION ANALYZER FOR DIESEL ENGINE EXHAUST	<p>EMISSION ANALYZER FOR DIESEL ENGINE EXHAUST Equipment shall be a compact and combined emission analyzer for laboratory Diesel/Biodiesel engines. It should measure K value and opacity, NOx, CO, HC, CO2, O2, and lambda of emission from Diesel/Biodiesel engine. It should have sampling system for treating diesel emission from engine test bed application and light-weight opacity measuring chamber, requiring minimal maintenance, short warm-up time and quick response time. It should be portable and have software for login data and display unit. It shall have extra-long Exhaust probe, Display RS232 connection, Ethernet Inbuilt memory for data storage, Magnetic sensor, Oil temperature sensor control & power cable, 1 User manual, Trolley complete with spare set of Recommended consumable items.</p> <p>Technical Specifications: -</p> <p>A. Measurement Parameters-Range-Resolution-Accuracy</p> <ul style="list-style-type: none"> i) CO – Range (0-15% Vol.) – Resolution (0.01 % vol.) – Accuracy (< 10.0 % vol.: ± 0,02 % vol., ± 3 % o.M., = 10.0 % vol: ± 5 % o.M.) ii) CO2 - Range (0-20% Vol.) – Resolution (0.1 % vol.) – Accuracy (< 16.0 % vol.: ± 0, 3 % vol. ± 3 % o.M., = 16.0 % vol: ± 5 % o.M.) iii) HC - Range (0-30000 ppm Vol.) – Resolution (= 2,000: 1 ppm vol. > 2,000: 10 ppm vol.) – Accuracy (< 2000 ppm vol.: ±4 ppm vol. ±3 % o. M. = 5000 ppm vol.: ±5 % o. M. =10000 ppm vol.: ±10 % o. M.) iv) O2 - Range (0-25 % Vol.) – Resolution (0.01% vol.) – Accuracy (±0.02 % Vol.) v) NOx - Range (0-5000 ppm Vol.) – Resolution (1 ppm Vol.) – Accuracy (±5 ppm Vol.) vi) Lambda - Range (0-9.999) – Resolution (0.001) – Accuracy (Calculated from CO, CO2, HC, O2) vii) Opacity - 0-100 % with 0.1 % & per meter length <p>B. Other specifications</p> <ul style="list-style-type: none"> i. Speed Ranges : 400 ... 6.000 RPM ii. Signal input : Magnetic sensor iii. Oil temperature probe range : -10 to 145°C iv. Warm-up time Approx. 2 min v. Certification/Accuracy 2004/22/EC (MID); OIML R99 Class 0 /ARAI Gas measurement at variable RPM <p>C. Interfaces etc</p> <ul style="list-style-type: none"> i. 4 x USB 2.0 Ports (for keyboard, mouse, printer and spare) ii. 3 x RS232 (spare ports) iii. Dual sensor connector (RPM) for RPM Sensor and magnetic sensor iv. Oil Temp probe 2200 mm (extra) v. Standard VGA connector For external display vi. TFT 12.1 inch display with printability of data analysis charts through software vii. Network connector Compatible

		<p>D. Consumables to be included</p> <ul style="list-style-type: none"> 1) Pump condensate - 1 2) Pump gas - 1 3) Round Paper Filter - 1 4) Pre Filter 7 µm - 50 5) Oxygen sensor - 1 6) Magnetic Switch valve - 1 7) Filter housing condensate - 1 8) Filter Housing Gas - 1 9) Activated carbon filter - 1 10) Filter for filter housing gas/condensate - 50 11) Sealing for locking filter housing gas/condensate- 2 12) Sealing for locking filter housing fine filter - 2 13) Fan - 1 14) Condensate trap - 1 <p>All Features should be compatible or superior to AVL CDS 450 model with an additional sampling system suitable for pre-treatment of diesel emission gases.</p> <p>It shall be a compact diagnostic system for Emission measurement from Diesel/Bio-diesel engines. Emission measurement systems must facilitate the research work in Laboratories and test centers, reduce costs and effort and comply with the most recent standards. The exhaust emissions test device shall have rapid measurement availability, no down time, low maintenance cost, efficient use and operation, self-explanatory, optimized for use in a workshop, developed for rough workshop conditions, most recent and future-proof technology, prepared for future hardware and software requirements.</p> <p>Make & Model of the equipment must be mentioned</p>
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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: _____