INDIAN INSTITUTE OF TECHNOLOGY, DELHI

Mechanical Engineering Department

M V Subbarao

DATE: 20 Feb. 2014

Notice Inviting Quotations

Sealed quotations are invited for the item "Exhaust Emission measurement with PC connectivity - Gas Analyzer (CO, CO2, HC, NOx, O2, Lambda, RPM and Oil Temperature) and Smoke meter for Internal Combustion Engines (Gasoline and Diesel engines).

The Equipment should measure the Gas components and smoke values preferably on one screen for Real time comparison. The Technical specifications of the item are given below.

The quotations should be submitted in a sealed cover (separate sealed bids: technical and commercial) to PMV SUBBARAO, Professor, Indian Institute of Technology Delhi, Hauz Khas, New Delhi-110016 on or before The Haur 2014 The late submission will not be entertained. Please super scribe the envelope with "Exhaust Gas Analyser."

Gas analyzer Specifications

Measurand	Measuring Range	Resolution	Accuracy
СО	0 5 % vol	0.01 % vol.	± 0.05 % vol.
CO2	0 20 % vol.	0.01 % vol.	± 0.5 % vol.
НС	0 10000 ppm vol.	10 ppm vol.	50 ppm vol.
O2	0 25 % vol.	0.05 % vol.	± 0.2 % vol.
NO	0 5000 ppm vol.	1 ppm vol.	5 ppm vol.

Smoke meter Specifications:

Opacity (% Value)	- Measurement Range: 0 99.9 % - Resolution: 0.1 %	
Absorption (k-Value)	- Measurement Range: 0 99.99 % - Resolution: 0.01 1/m	

Interfaces USB, RS232 & network connector.

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Terms and Conditions

- 1. Warranty: Equipment's onsite free warranty must be at least 2 years.
- 2. Vendor should support spare parts and services for at least 5 years after warranty period.
- 3. 100% Payment will be made after delivery and demonstration of the equipment.
- 4. Technical and commercial bids must be submitted in separate sealed envelopes super scribing 'Technical bid' and 'Commercial bid'.
- 5. Submit a list of reputed clients with their contact details where the same instrument has been supplied in last one year.
- 6. Delivery period should not exceed 30 days from the date of supply order.
- Price quoted must mention all taxes, CIF/FOB IIT Delhi.
- Also submit proprietary certificate and authorized supplier certificate if applicable.

PmV. Sulle les. Prof. P M V Subbarao