

**INDIAN INSTITUTE OF TECHNOLOGY**  
**Department of Civil Engineering**

**Enquiry letter for purchase of Photoacoustic Extinctionmeter**

**Sub:** Quotation for supply of Photoacoustic Extinctionmeter, 405nm laser (AAA-0118 PAX-405nm)

**Reference:** IITK/CE/08-2013\_130

**Dated 12.11.2013**

**Sir / Madam,**

**With reference to the subject mentioned above, you are invited to submit the quotation in a sealed cover. Configuration/Specification are given below:**

Measured Parameters	Absorption coefficient, Babs Scattering coefficient, Bscat
Auxiliary Parameters	Temperature Pressure Relative Humidity
Derived Parameters	Extinction coefficient, Bext Single scattering albedo, SSA Dew Point
Measurement Range – Absorption and Scattering	< 1 Mm <sup>-1</sup> - 100,000 Mm <sup>-1</sup> (870 nm, 60 sec. averaging)
Laser	870 nm (2 W)
Modulation Frequency	1500 Hz nominal, square wave
Angular Integration for Scattering	5 to 175°
Sample Flow	1 L/min
Flow Control	Critical orifice
Pump	Diaphragm
Response Time	< 10 sec; one second resolution
Data Averaging Time	1, 10 or 60 seconds; user selectable
Communications Output	Ethernet 100/10 Mbps
Power Requirements	230 V, 50 Hz

Environmental Operating Conditions:

Temp	0 – 40°C
RH	0 – 95% RH non-condensing
Software	Should include software package for instrument maintenance, data playback and archiving.

**The quotation should have the following details:**

1. Cost of the item and accessories and installation charges, if any
2. Technical specifications in detail
3. Warranty period
4. Educational discount considering end use for research and teaching
5. Payment terms
6. Proprietary Certificate, if applicable
7. Any other relevant details

**Terms and condition:-**

1. Sealed Quotation must reach to us till 22.11.2013 before 5.00PM
2. Prices should be in USD and CIF Delhi.

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