

**Department of Atmospheric Science,
Kannur University**

Universal Tenders are invited for the supply of following Research equipments in the department.

1. Sealed tenders are invited for the supply of METHANE and NON METHANE HYDROCARBON GAS ANALYSER using Flame Ionization Detector (FID) technique and accessories with the following specifications:

Specifications:

Programmable measurement ranges	0-10/50/100/1,00 ppm or user selectable
Noise	0.025ppm
Lower detectable limit	0.05ppm
Response time	Automatic or programmable
Zero drift	0.1 ppm/ 7days
Span drift	< 1% / 7 days
Linearity	± 1% full scale
Sample flow rate	1.4 l/min
Average data	Programmables from 1 up to 9999 min
Data storage	Last 1,500 average data
3 configurable analog outputs	0-20 mA, 0-1V, 0-10V
Serial link	RS 232/RS 422
Power supply	230V, 50/60 Hz or 115 V,60Hz
Consumption	450V A
Operating temperature	+ 10 to +35 °C

2. MICROTOP II SUNPHOTOMETER and its accessories with the following specifications:

Optical filter specifications	320nm (2nm FWHM) 440nm (2nm FWHM) 675nm (10nm FWHM) 870nm (10nm FWHM) 1020nm (10nm FWHM)
Angle of view	2.5 degree
Accuracy	2%
Computer interface	RS 232C
Data storage	800 records and more for operating continuously.
Power source	4XAA Alkaline batteries(200 hours)
The prices quoted are CIP COCHIN	
Optional accessories	
GPS Receiver, GPS72 with data cable	One
Tripod adapter	One
Carry bag	One
Data cable having one side fitted with 8 pin female connector and its other side with USB to feed data in a PC from Sunphotometer	One

Terms and conditions:

Warranty: 12 Months from the date of commissioning

Note:

1. No insurance is required at our cost.
2. No agency commission is payable against this order.
3. No partshipment is allowed.
4. Do not ship the item through courier service.
5. Bank charges outside India are on your account.
6. Import licenses: License applicable to universities of India for pursuing research. Programmes vide order Tu/VRG-CDE(811)/2007 dated 17 September 2007. Department of Scientific and Industrial Research, Government of India.
7. Despatch instructions enclosed, performance of Bank guarantee for 10% of the order value should be furnished which will be valid for the warranty period.
8. Instrument will be properly packed in air –worthy packing.
9. Manufacturers inspection/Test Certificate should be provided free of cost.

Tender Specifications:

- ❖ Last date for the receipt of sealed tenders: **5.00 PM on July 23, 2010.**
- ❖ Tender opening: **June 24, 2010 at 10.30 AM at the office of the undersigned**
- ❖ Sealed tenders should reach **Dr. M.K Satheesh Kumar, Department of Atmospheric Science, Kannur University, Mangattuparamba Campus Kerala – 670 567 on or before 5.00 pm, 23-7-2010.**
- ❖ For details contact: **Dr. M.K Satheesh Kumar, Course Director and Principal investigator, Department of Atmospheric Science, Kannur University, Mangattuparamba Campus, Kannur, Kerala 670 567**

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Sd/-

Course Director,

Department of Atmospheric Science, Kannur University