



**भारतीय उष्णदेशीय मौसम विज्ञान संस्थान**  
**INDIAN INSTITUTE OF TROPICAL METEOROLOGY,**  
 (पृथ्वी विज्ञान मंत्रालय का स्वायत्त संस्थान, भारत सरकार के अधीन)  
 (An Autonomous Institute of the Ministry of Earth Sciences, Govt. of India)

No. PS/125/36/2009

Date :

M/s.

Dear Sir,

We are interested in procurement of the following items. You are, therefore, requested kindly to submit your Quotation / Pro-forma Invoice in triplicate so as to reach this Institute on or before **20 October 2009**. The envelope should be super scribed "Enquiry Number PS/125/36/2009 due on **20 October 2009**".

Sr. No.	Description of Stores	Unit	Quantity
01	<b>Supply &amp; Installation of -</b> <b>a) "Multi Channel Scaler / Averager (MCS/MCA) based Data Acquisition System / Recorder (2-Channel) for 308 &amp; 353 nm DIAL System with necessary Accessories, Interface Modules, Software and Documentation and"</b>  <b>b) Photomultiplier Tube with Power Supply and Pre-Amplifier</b>  <b>(As per specifications enclosed)</b>	Set	01
		Set	02

The proforma invoice shall indicate the following information and also accompany relevant technical literature.

1. FOB / FCA value including packing, forwarding and inland freight charges.
2. C&F / CIF Mumbai (INDIA) value by airfreight.
3. Please indicate the name & address of your Indian agent. Please also indicate the amount of agency commission payable to him in Indian currency after the receipt of the consignments in good condition at our Stores and in case of equipment after the satisfactory installation & commissioning. Indian Foreign Exchange & Regulations Act do not permit the inclusion of Indian agency commission, discount or like rebates allowed by foreign suppliers in FOB value, payable to their Indian agents. Such commission, discount etc., if any, must be indicated separately in your offer;
4. Indicate the names of the Indian reputed organizations where you have supplied the similar equipment and may attach the satisfactory performance report of the equipment from users;
5. If you have supplied identical or similar equipment to other Govt. Organization CSIR/Labs/Institute., the details of such supplies for the preceding three years should be given together with the prices eventually or finally paid;
6. Fax/e-mail tenders will not be considered

P.T.O.

तार : ट्रॉपमेट, पुणे Grams : TROPMET, PUNE

फैक्स : Fax : (020) 25893825 दूरभाष : Telephone : 25893600 / 25893675 - 81

डॉ. होमी भाभा मार्ग, पाषाण / Dr. Homi Bhabha Road, Pashan, पुणे / Pune - 411 008 ( भारत / India )

7. Please indicate clearly all bank charges (inside & outside India) shall be borne by the supplier/ beneficiary.
8. Details of services to be rendered by you.
9. The offer may be kept valid for minimum period of 180 days.
10. Proprietary Certificate in Original.
11. Country of Origin.
12. Terms & Period of Warranty.

We prefer to release the payment on Bill basis (excluding Indian agency commission) after the receipt of consignment in good condition. Alternatively, depending upon the value and foreign exchange regulations the payment can also be considered through Sight Draft/Letter of Credit through the State Bank of India for the order value excluding the Indian agency commission.

The payment shall be made by way of Letter of Credit through the State Bank of India, Pune - 411 001 ( INDIA ) excluding the Indian Agency Commission which shall be paid directly to Indian Agents in Indian rupees after receipt of materials in sound condition. Insurance shall be arranged by us if the mode of dispatch is air-freight.

Thanking you,

Yours faithfully,

(S. R. NIRGUDE)  
Senior Technical Officer-II  
For Director

**Specifications for MCS based data acquisition system for 308nm and 353 nm – Qty  
01 Set**

**No. of channels : minimum 2 with analog and photon counting modes.  
AD resolution : 12 bit or better  
Sampling rate 150 MHz at the fast analog input  
Trigger : Two trigger inputs  
Internal and external trigger modes: Threshold: +/- 15 V Slope: Positive and Negative  
Pass present: Programable  
Acquisition modes: sum, replace and replace/sum  
Dynamic range : better than  $10^5$  ( combination of A/D and photon counting detection)  
Data transfer rate : Fast transfer rate  
Dead Time between channels: NO dead time  
Facilities should be include CURRENT TO VOLTAGE CONVERTER and PRE-AMPLIFICATION OF INPUT SIGNAL  
Discriminator: with programmable threshold  
Documents and warranty to acquisition system  
Connectivity : USB 2.0 /Ethernet**

**Software:**

**Complete acquisition software with operating, display and analysis software with features to smooth, sum, compare and normalize the spectra.  
Facility to save spectra and instrument settings and recalled for further processing  
Tool kits for programming under Lab View, Visual C++ etc.,**

**Specifications for PHOTOMULTIPLIER TUBE (PMT) – Qty 02 Sets**

**Spectral region: 200 -400 nm with maximum sensitivity in the region 300 -400 nm**

**Pulse load stability < 0.2%**

**Cathode diameter: approx. 8 mm**

**HV supply for PMT**

**Appropriate cooling system to minimize dark current**

(S. R. NIRGUDE)  
Senior Technical Officer-II  
For Director