

Ref. No PH/PSA/131/2017-18

2<sup>nd</sup> May 2017

Dear Sir/Madam,

Kindly send your best quotation for the **Closed-cycle cryostat system for optical measurement** with the following specifications on C.I.P. Bangalore basis. Your quotation should clearly indicate the terms of delivery, delivery schedule, E.D., payment terms etc. The tender should be submitted in two separate sealed envelopes - one containing the technical bid and the other containing the commercial bid, both of which should reach us, duly signed on or before 24<sup>th</sup> May 2017 to

**The Chairman  
Department of Physics,  
Indian Institute of Science, Bangalore 560012**

Please enclose a compliance statement along with the technical bid.

Thanking you

Prof. P.S. Anil Kumar  
Dept. of Physics  
Indian Institute of Science

### **Specification**

#### **Closed-cycle cryostat system for optical measurement**

1. Temperature range : at least 3.4 K to 350 K
2. One optical window on top and at least four on sides, with top window working distance < 5 mm.
3. Maximum peak to peak temperature variation :  $\pm 10$  mK. Provide sufficient supporting information.
4. Peak to peak sample stage vibration (XY) allowed : less than 10 nm. Provide sufficient supporting information.
5. Sample drift while cooling down to 4.2 K : Quote the actual drift in your system.
6. Top window spectral range : atleast 250 nm to 2200 nm. Provide sufficient supporting information.
7. Electrical feedthrough with at least 24 pins.
8. Cool down time from room temperature to 4.2 K : less than 3 hours
9. Vacuum pump and calibration thermometers should be included.
10. Integration of the cryostat should be compatible with micro-Raman system.

Optional :

1. The system should have a facility to do magnetic measurement upto 0.7 T (through the side windows)
2. LT stage : Open loop positioners and controllers.

The quote should include all the necessary accessories for the system.

Installation and training at IISc site free of cost.

Minimum One year warranty for the entire system.

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