

ASSOCIATION FOR THE CULTIVATION OF SCIENCE
2A & 2B Raja S.C. Mullick Road, Jadavpur, Kolkata - 700032

Ref. No.- SPS/AJP/19-20/15-1

DATE : 30-05-2019

CORRIGENDUM NOTICE No.- I

NIT No. - IACS/SPS/AJP/2019-20/15 DATE : 08.05.2019

Tender Time Extension :-

Tender Time Extension	Date & Time as published	Date & Time extended to
Last Date and Time of Submission of Tender	03/06/2019 upto 3.00 PM	10/06/2019 upto 12.00 noon
Date of Opening of Tender (Technical Bid)	04/06/2019 at 4.30 PM	10/06/2019 at 3.30 PM
Place of Opening Tender	Prof. A.J.Pal's Office, Main Building, Room No.122 (2nd floor)	

Technical Specification :-

Technical Specifications of 'Closed Cycle Cryostat for Electrical and Optical Studies under Magnetic Field' should read as :

Compatible Cold heads (pneumatic drive) and compressor.

Water cooled helium compressor with full charge of high purity helium gas.

Interconnecting hoses and cold-head cable.

Temperature Range: Operating temperature at sample using temperature controller should be 10-500 K with adjustable graduation.

Cooling power: Above 8 W at 10 K; Above 16 W at liquid nitrogen temperature.

Cryostat System:

High purity copper cold finger extension in a vacuum shroud having an outer diameter suitable to fit between the magnetic pole gap of 2 inches of an electromagnet.

Additional vacuum shroud with two optical quartz windows (1 inch diameter or 1 inch square).

50 ohm control heater to control temperature (a Lake Shore 335 temperature controller, already in possession of the buyer, is to be connected to the cryostat).

All clamps and gaskets to ensure a fixed orientation of the vacuum shroud.

Interface for mounting sample holder and radiation shields to be bolted.

Turbo pumping system is available with us. It has to be fitted to the cryostat by the vendor through flanges, gauges, tubing etc.

Sample Holder and Temperature Sensor:

Sub-compact gold-plated OFHC copper 8-pin resistivity sample holder along with 8 wires to the sample, connections for temperature sensors, and the heater.

Additional sample holder with a hole (5 mm diameter) for illumination from the back side. The optical window on the vacuum shroud should be parallel to the plane of the sample holder.

The probe contacts with gold-pins should be pressure-loaded operable at low temperature. The probes will be used for measuring current up to mA DC.

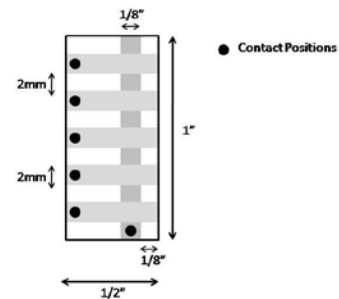
Two GaAlAs diode temperature sensors installed to measure temperature of the sample and the cold-head.

Feedthroughs and Connections:

Instrumentation skirt must have at least four numbers of electrical feedthrough ports for heater and temperature sensor wires, 10-pin electrical connections to carry out electrical/dielectrical experiments along with two additional blank feedthroughs.

Additional 2 male-female feedthrough-connectors to be provided.

The sample holder should have enough area to fit samples having a size of 1 inch × 0.5 inch (height × width). The arrangement of the contacts should be as per the image:



Optional item: Electromagnet providing a magnetic field of 500 mT or more at a pole-separation of 2 inches. The poles should have a diameter of 3 inches or more. At least one of the poles should have a hole having a diameter of 5 mm for illuminating the sample through the pole.

Vendor should have a well-established office in eastern India with suitable technical manpower for after-sales support of the quoted system.

Warranty: 3 years

Price: FOB and CIF prices to be quoted.

Payment: Letter of credit or after installation, as applicable

Compliance statement to be attached

Acting Registrar