

## Tender Notification for the procurement of close cycle cryostat

### To Whom It May Concern

This is an RFQ (Request for Quotation) document for procurement of a Closed Cycle Cryostat to be used for low temperature characterization RF devices and materials.

#### Procedure:

1. Vendors are required to submit a technical proposal and a commercial proposal **in two separate sealed envelopes**. Only vendors who meet the technical requirement will be considered for the commercial negotiation.
2. The decision of purchase committee will be final.
3. The technical proposal should contain a compliance table with 4 columns. The first column must list the technical requirements, in the order that they are given in the technical configuration below. The second column should describe your compliance in a "Yes" or "No" response. If "No" the third column should provide the extent of the deviation (please provide quantitative responses). The fourth column should state the reasons for the deviation, if any.
4. Any additional capabilities or technical details, that you would like to bring to the attention of the purchase committee, can be listed at the end of the technical table.
5. The **deadline for submission of proposals is the 4<sup>th</sup> of Mar 2020, 5:30 pm Indian Standard Time**. Proposals should arrive at the office of Dr. Saurabh Chandorkar, FF-08, Centre for Nano Science and Engineering, Indian Institute of Science, Bangalore 560012, India, by the above deadline.
6. The **quotes should be CIF Bangalore, India**. Please include cost of shipping.
7. Please provide itemized quotes for the system and **any extra options/attachments/packages**. Vendors are encouraged to quote for as many options as their system portfolio permits.
8. Please indicate the warranty provided with the system. Longer (3 year) warranty periods are preferable.
9. As an option, please provide cost of annual maintenance contract (AMC) for 3 years after warranty. It must also indicate who will service the AMC, an Indian agent or the OEM.
10. Any questions or clarifications can be directed to: Dr. Saurabh Chandorkar  
FF-08, Centre for Nano Science and Engineering,  
Indian Institute of Science, Bangalore 560012  
[saurabhc@iisc.ac.in](mailto:saurabhc@iisc.ac.in)  
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## Technical Specifications

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S.No.	Requirement	Spec
1	Cryostat	Close Cycle
2	Cooling for compressor	Water cooled (include option for air cooled version if available)
3	Cooling power	$\geq 1.6\text{W}$ @ 10K (2nd stage) @ 50Hz, $\geq 15\text{W}$ @ 77K (1st stage) @ 50Hz
4	Temperature range	$\leq 10\text{K}$ upto $> 350\text{K}$ , Include option for increasing range to $\geq 450\text{K}$
5	Stability	$\leq 0.1\text{K}$
6	UHV compatible	Yes
7	Bakeable to 200C	Yes
8	SMA connections	8 cables heat sunk to 2nd stage
9	DC connections	8
10	Instrumentation for temperature control-wires, temperature sensor, heater	Yes
11	Vibration levels at sample	$\leq 10\mu\text{m}$
12	Flange mount	6inch CF or 8inch CF
13	Cold finger length	8 inches from the end of the flange
14	Temperature controller	Include a separate line item for Lakeshore-335 or other equivalent temperature controller
15	Accessories	All the required accessories (e.g. compressor, bellows, kit to remove the cryostat head during baking if required) to operate the cryostat should be included in the quotation.

### Other requirements

- **Vendor MUST have supplied at least 1 similar cryostat systems in India and have a local support person in India (preferably in Bangalore).**
- Provide suitable Warranty Period (minimum of 1 year) and clear warranty terms
- Provide after warranty option for 3 year AMC + required AMC kit/spares
- 3 references, preferably Indian, from people using this system need to be furnished with the bid
- The payment terms are negotiable.
- The bid will be considered valid for 90 days after the last date of bid acceptance (i.e. 4<sup>th</sup> June 2019).
- Shipping: Bangalore CIF