

Global Tender Notification for the procurement of a multi-Input/Output microwave packing for ultra-low temperature application

Reference No: PH/VBSI/549/2023-24 dated 18 April 2023

GTE Approval #: IISc-GTE-2023-263

Last date of Submission: 29th Aug 2023, 5pm .

A request for quotation for a multi-Input/Output microwave packing for ultra-low temperature application.

The quotation should clearly indicate the terms of delivery, delivery schedule, transportation charges (if any).

All interested vendors shall submit a response demonstrating their capabilities to produce the requested equipment to the primary point of contact listed below.

Any question/clarification concerning this tender can be made by sending email to Ms. Rekha Varadaraj at "vrekha@iisc.ac.in"

Technical specifications:

- 1) Total number of input/output lines – 16 or more
- 2) Operating temperature < 20 mK
- 3) Compatible to accommodate 10mm X 10mm samples sizes
- 4) Include Sample plate, sample lid, sample fixture.
- 5) Double magnetic field shielding (compatible for 20mK operation)
- 6) Coil made of superconducting wire with appropriate terminations inside the magnetic shielding may be included.
- 7) Gold-plated high thermal conductivity cold fingers for mounting to cryogenic base plate.
- 8) PCB must be compatible for low temperature usage.
- 9) The terminations of the box (outside) could be non-magnetic SMP/SMA
- 10) Mating connectors to the SMA terminated coaxial lines of the cryostat must be provided if non-SMA terminations are used on the box (outside).
- 11) A set of assorted bolts/nuts for the entire packaging.

Warranty: Comprehensive warranty and support for at least 1 year.

Quantity: 1 units

DELIVERY TIME: Maximum 2 months from the date of Purchase Order.

General terms and conditions:

- Vendor must have experience in manufacturing microwave packaging for low temperature applications.
- Please submit batch testing results along with the quotations. Test results shows the S-parameters characterization showing the nearest, next-nearest cross-couplings, and any spurious box modes up to 20 GHz.

- A pre-bid-submission meeting for any technical clarifications can be scheduled by sending an email to "vrekha@iisc.ac.in".

- The purchaser reserves the right to accept or reject any bid and to annul the bidding process and reject all bids at any time before the award of contract without thereby incurring any liability of the affected bidder or bidders.

- The quotation can be addressed to "The Chairperson, Dept. of Physics, Indian Institute of Science Bangalore-560012"