

Request of quotation (for Domestic suppliers) for the procurement of a multi-Input/Output microwave packing for ultra-low temperature application

Last Date for submission of quotation: May 9th, 2023, 5pm

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

A request for quotation from domestic (India-based) manufacturers for a multi-Input/Output microwave packing for ultra-low temperature application. Quotation should come only from Indian Original Equipment Manufacturer (OEM) or their Indian authorized distributor. The quotation should clearly indicate the terms of delivery, delivery schedule, transportation charges (if any). The quotations should be on FOR-IISc Bangalore basis in INR only.

With respect to this tender, the rules laid out by the Government of India in order No. P45021/2/2017-PP (BE-II) issued by the Public Procurement Section, Department of Promotion of Industry and Internal Trade, Ministry of Commerce and Industry, dated 4th June 2020, will be followed. Per this order, the government has defined a 'Class-I local supplier' as "a supplier or service provider, whose goods, services or works offered for procurement, has local content equal to or more than 50%". A 'Class-II local supplier' is "a supplier or service provider, whose goods, services or works offered for procurement, has local content more than 20% but less than 50%". Only 'Class-I' and 'Class-II' local suppliers are eligible to participate in this open domestic tender. Any 'Non-local supplier', i.e., "a supplier or service provider, whose goods, services or works offered for procurement, has local content less than 20%" is ineligible to participate in this tender.

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