



Request for quotation (RFQ) from Indian OEM or its authorized Indian Distributor for the procurement of two of single-photon avalanche detectors (SPADs) (Last Date for submission of tenders: 26th June 2024)

REF: PH/ASIN/001/2024-25

4th June, 2024

A request for quotation from Indian OEM or its authorized Indian distributor for two of single-photon avalanche detectors (SPADs) on **FOR Bangalore basis with value quoted in INR**. The quotation should clearly indicate the terms of delivery, delivery schedule, E.D., transportation charges, if any, payment terms etc. Kindly submit the quotation latest by 26th June 2024 to Department of Physics, IISc.

Pre-bid criteria

1. 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 04th 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.
2. 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.
3. The vendor should have a track record of having previously supplied at-least four similar equipment to CFTI's and National labs in the past three years, please furnish the details with the bid.
4. The company should be registered for more than 5 years.
5. The bidder shall have to submit audited accounts (Balance sheet profit and loss account) of financial year 2019-20, 2020-21, 2021-22, 2022-23. Audited statements must be signed and stamped by qualified chartered accountant.
6. Bidder must submit Income Tax return for the above assessment years.
7. Details of experienced service engineer including contact detail should be provided.
8. The Bidder must not be blacklisted/banned/suspended or have a record of any service- related dispute with any organization in India or elsewhere. A declaration to this effect should be provided.

Please enclose a compliance certificate along with the bid. This certificate should have a table that should describe your compliance in a "Yes" or "No" response against each of the items in the specifications listed below. If "No", the second column should state the extent of deviation. The third column should state the reasons for the deviation if any. Please enclose a compliance statement along with the bid. Bids with no statement of compliance will be considered invalid, and will be disqualified.

Specifications of Item: Two numbers of single-photon avalanche detectors (SPADs) which operate with optimum performance in the 600-900 nm wavelength range to perform single-photon level detection. Detectors with high sensitivity, high detection efficiency, low dark count and high saturation electron rate are preferred. These SPADs will have the following specifications:

1. Wavelength Range : 400 to 1000 nm.
2. Quantum Efficiency: > 40% at 500 nm, > 70% at 650 nm, > 50% at 830 nm, > 10% at 1000 nm.
3. Sensor active area diameter: 100-200 micrometer.
4. Supply Voltage: India-compatible power plug – 5V. Power supply to be included.
5. Dark count rate: < 100 counts /second (wavelength and other conditions to be specified).
6. Timing resolution: < 250 picosecond (conditions to be specified).
7. Optical Input: Free space.
8. Dead time: < 30 nanoseconds.

9. Output pulse format: TTL/ NIM format.
10. Output pulse width: < 20 nanoseconds.
11. Output pulse height: 2.2V .
12. Operation temperature: surrounding at Room temperature, Detector temperature <10 C.
13. Latency between input and output: Any latency between input and output to be specified.
14. Any cables, connectors or other accessories required to connect the time correlated single photon counting (TCSPEC) electronics to SPAD: Must be included.
15. Warranty: Minimum of one year.

Other requirements:

1. Compatible operating system(s) for the interface software should be specified. Suitable software drivers available should be specified.
2. Software to control and process data from the detector: Must be included with capabilities for controlling, time-stamping, histogramming and programming.
3. List of acceptance tests for on-site (vendor) inspection and after installation at IISc.

Terms and conditions:

1. The vendor should have qualified technical service personnel for the equipment based in India (preferably in Bangalore).
2. Quote to be from Indian OEM or its authorized Indian Distributor and in commercial terms quote should be FOR-IISc Bangalore basis in INR.
3. The payment will be through “net 30 days after delivery and installation”, as per IISc rules.
4. The lead time for the delivery of the equipment should not be more than 4-5 months from the date of receipt of our purchase order.
5. The offer shall be valid at-least 60 days from the date of opening of the bid.
6. The vendors quoting should ideally be registered with IISc, and the quote should carry the vendor registration number in the bid.
7. The covering letter in the bid should clearly mention whether the vendor is a ‘Class I’ local supplier or a ‘Class II’ local supplier, failing which the vendor will be automatically disqualified. The vendor should indicate the percentage of the local content and provide self-certification that the items offered meet the minimum local content requirement. They should also give details of the location(s) at which the local value addition was made. 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.
8. Bidders offering imported products will fall under the category of non-local suppliers. They cannot claim themselves as Class-1 local suppliers/Class-2 local suppliers by claiming the services such as transportation, insurance, installation, commissioning, training, and other sales service support like AMC/CMC, etc., as local value addition.
9. Purchase preference as defined by the recent edits to GFR (within the “margin of purchase preference”) will be given to the Class-1 supplier.
10. MSMEs can seek an exemption to some qualification criteria. IISc follows GFR2017 for such details.
11. The Institute reserves the right to accept or reject any bid, or to annul the bidding process and reject all bids, at any time prior to the award of contract without thereby incurring any liability of the affected bidder or bidders.

Yours Sincerely,



Akshay Singh
office phone: 080-2293-3083