

INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE

2A & 2B, Raja S.C. Mullick Road, Jadavpur, Kolkata-700032

Tender Notice

NIT No. : IACS/TRC/TKP/2016-17/40

Date: 14/09/2016

Sealed tender in two bids system (technical bid and price bid) is invited from bonafide, resourceful, and eligible manufacturer/exclusive distributor/vendors for a "Mössbauer Spectrometer with Cryogen Free Cryostat System."

Part-I (Technical Bid) of the tender should contain technical specifications in detail as well as commercial terms and conditions. Part-II (Price Bid) should clearly indicate group-wise price, if needed, as mentioned in the technical bid. The Technical Bid and Price Bid are to be submitted in separately sealed envelopes, distinctly marked accordingly and both to be put inside another envelop, that should be sealed and superscribed with tender notice no. and due date. The bidders may submit bids duly signed in their own letterheads.

Completed tender bids should reach the office of **Department of Inorganic Chemistry, Indian Association for the Cultivation of Science (IACS), 2A & 2B Raja S. C. Mullick Road, Jadavpur, Kolkata-700032** on or before the scheduled date and time specified below :

Tender Notice No.	IACS /TRC/T.K.P/2016-17/40	Date: 14/09/2016
Last date and time of submitting tender	28/10/2016 upto 2.00PM	
Pre-bid meeting to discuss technical specification	05/10/2016 at 4.00PM	
Date and time of opening tender (Technical Bids)	28/10/2016 at 4.00PM	
Date and time of opening of Price Bids	The Price Bids of the bidders qualifying the technical bid will only be opened, the date of which will be intimated to the short-listed bidders at their email addresses. The rest of the bids will be rejected.	
Contact Details	Email: ictkp@iacs.res.in	

The technical bids will be opened first to judge/evaluate the technical specifications of the said instrument and thereafter the price bids of only technically qualified bidders will be opened.

Technical Bid Evaluation : The Technical Bids will be evaluated in the presence of the representatives of intending bidders who will be able to clarify technical aspects of their bids, if any, required by the Technical Evaluation Team.

Opening of price-bid : The Price Bids of the bidders qualifying the technical bid will only be opened, the date of which will be intimated to the short-listed bidders at their email addresses. The rest of the bids will be rejected.

Please note that IACS will not provide any accommodation or reimburse any expenses to any of the bidders for attending opening of technical bid.

1. TECHNICAL BID

The technical bid should contain technical specifications and should be kept in a separate sealed envelope duly super scribed as 'TECHNICAL BID' on the outer cover of the envelop as already detailed above. It should be clearly mentioned on the envelope as "Mössbauer Spectrometer with Cryogen Free Cryostat System".

Technical Specification for a Mössbauer Spectrometer with Cryogen Free Cryostat System

Item 1: The Mössbauer Spectrometer should have the following components:

- a) Proportional Counter.
- b) Resonant Gamma Ray Spectrometer that includes
 - (i) Dual MCS
 - (ii) Velocity Transducer Controller
 - (iii) PC interface
- c) Velocity Transducer: Non-linearity < 0.1% for +/- 10 mm/s range.
- d) Bench with shielding, sample holder and collimators.
- e) Gamma ray Spectrometer that includes
 - (i) High Voltage Supply for the Proportional Counter
 - (ii) Preamplifier and Shaping Amplifier for the Proportional Counter output.
 - (iii) MCA (PHA Analysis)
 - (iv) Dual SCA
 - (v) Computer interface and related software
 - (vi) Mössbauer Spectral Analysis Software
- f) 50 mCi Mossbauer Source (Co-57 in Rh matrix)
- g) Windows based Acquisition System and related software
- h) All related cables

Item 2: Cryogen-free Cryostat interfaceable with above Mössbauer Spectrometer

- Base temperature inside sample tube: 4.5K guaranteed, 4.0K or less expected
- Approximate cool down time: <100 minutes to 5K, additional ~45 minutes to base temp
- Sample change time: 5 minutes or less

Cryostat Essentials

- Temperature controller with cables
- Lead bricks to use as ballast on the vibration isolation stand and as radiation shielding.
- Control heater and calibrated temperature sensor on sample tube mounting flange.
- Two-stage low pressure Helium gas regulator for supplying sample tube with Helium gas
- Turbo pumping station featuring:
 - Turbopump with controller
 - Oil-free diaphragm backing pump
 - All mounting frame with rubber feet and cut outs for easy handling
 - Wide range vacuum gauge (atmosphere to 10⁻⁸ Torr) with digital display on controller
 - Flexible stainless steel pumping line and isolation valve
 - All hardware required to connect to cryostat

- Diaphragm pump for purging sample tube during sample change
- Cryocooler maintenance kit
- Top mounting flange and metal bellows assembly to isolate the sample holder from the cold head vibrations
- Adjustable sample positioner allowing sample rotation and translation
- Sample holder with 10mm aperture and tapped hole for a sensor
- Vibration isolation stand including pneumatic isolators, air tank, and manual air pump.

Previous Records:

(1) The supplier should provide a list of current users (with contact no. Email address etc) for the quoted item in India (enclose full list of users in India).

(2) Customer satisfaction reports from users in India should be furnished.

Warranty: Warranty should be for at least one year from the date of installation

Installation: Free installation and user training at IACS.

Service Facility: Supplier should mention the details of their service setup and man powers in India, preferably Kolkata.

Technical compliance chart should be provided following format :

Sr. No	Tender specification	Your offered instrument specification	Extent of compliance

Tender will not be accepted if the technical compliance chart is not provided following the above format.

2. PRICE BID

The financial bid indicating (item-wise, if required) price for the item(s) mentioned in the technical bid should be kept in a separate sealed envelope duly superscribed as 'PRICE BID' on the outer cover of the envelop as already detailed above. Price bids of only technically qualified bidders will be opened and the corresponding manufacturer/exclusive distributor/vendors will be intimated the date and time of the opening of price bid at their e-mail ids. Rest of the bidders will stand rejected.

PRICE: Price to be quoted on CIF Kolkata and also FOB basis.

3. BID SECURITY:

a. An Account payee Demand Draft/Pay Order for Rs. 4 % of Estimated Cost drawn in favour of "Indian Association for the Cultivation of Science (State Bank of India, Jadavpur University Branch, A/C No. 11079699211, IFSC: SBIN000093, MICR Code: 700002048)" is to be furnished by the bidders except those who are registered with the Central Purchase Organizations, National Small Industries Corporation or the concerned Ministry or Department, as Bid Security money or Earnest Money Deposit (EMD).

b. The Demand Draft for the Bid-Security should have at least 90 (ninety) days validity period of opening of the bids.

c. In case of non-award of the work the Bid Security money would be returned to the unsuccessful Bidders.

4. PERFORMANCE SECURITY:

An Account Payee Demand Draft of 10% of the order value in the name of "Indian Association for the Cultivation of Science" is to be furnished by the successful bidder as Performance security. Performance security money should remain valid for a period of 60 days beyond the date of completion of all contractual obligations of the supplier including warranty obligations. Bid security money or EMD will be refunded to successful bidder on receipt of the Performance security money.

GENERAL INSTRUCTIONS

1. Validity of tender: Tender submitted should remain valid for at least six months from the date of opening the tender. Validity beyond six months from the date of opening of the tender shall be lapsed by mutual consent.
2. The tender should accompany a compliance chart.
3. Incomplete and conditional tenders as well as tenders received after the due date will be summarily rejected without assigning any reasons thereof.
4. At any time prior to the bid due date, IACS may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder during pre-bid meeting, modify the bidding documents. The amendment(s) will be notified on the institute website. Prospective bidders are advised to occasionally to visit the website (www.iacs.res.in/tender) for any amendment.
5. Payments: 100% against delivery and successful installation or 100% Letter of Credit.
6. Installation/Demonstration/Application training at site: Installation & user training at IACS, free of cost by the supplier.
7. Service facility: In India, preferably Kolkata, supplier should mention their details of service setup and man powers who are responsible for after sales support. Response time should be within 24 hrs.
8. The model number, make and a printed literature of the product should be submitted positively.
9. Proposed delivery schedule should be mentioned clearly.
10. Manufacturers / exclusive distributors / vendors should have history of supplying this type of instruments to this or other scientific organizations. Availability of a list in this regard would be preferred.
11. Authorized dealership certificate should be provided in case of principal manufacturing company is not quoting directly.
12. Guarantee certificate, users manuals etc. are to be handed over to the user after successful commissioning of the system.
13. In the event of date being declared a closed holiday for purchaser's office, the due date for submission of bids and opening of the technical bids will be the following working day at the appointed time.
14. In case of any dispute, the decision of IACS authority shall be final and bidding on the bidders.
15. For any clarification regarding technical specifications, information etc., please send your queries to Prof. Tapan Kanti Paine (email : ictkp@iacs.res.in)
16. The authority of IACS reserves the right to reject any or all of the tenders received without assigning any reason thereof.

Registrar (Acting)