

INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE
2A & 2B, Raja S.C. Mullick Road, Jadavpur, Kolkata-700032

NOTICE INVITING TENDER No. : IACS/PSU/AKN/2017-18/48, Date: 11.09.2017

Sealed tender in two bids system (technical bid and price bid) is invited from bonafide, resourceful, and eligible manufacturer/exclusive distributor/vendors for a **QE/IPCE System (300-1100 nm range) with DC Measurement Mode for solar simulator**

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 **Prof. Arun K. Nandi, Polymer Science Unit, 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.	NIT No.IACS/PSU/AKN/2017-18/48. Dt. 13-09-2017
Last date and time of submitting tender	16/10/17, 12 noon
Pre-bid meeting(date, time & place) to discuss technical specification	09/10/17, 1 PM (C.V. Raman Hall, IACS)
Date and time of opening tender	16/10/17, 1 PM
Place of opening tender	C.V. Raman Hall, IACS
Contact	Email: psuakn@iacs.res.in Tel.+91 33 2473 4971 [Ext. 1561]

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 "Technical Specification for **"QE/IPCE System (300-1100 nm range) with DC Measurement Mode for solar simulator"**.

PI: Prof. Arun K. Nandi, Polymer Science Unit, Indian Association for the Cultivation of Science, Kolkata-700032

The technical committee (as approved by the competent authority, IACS) in its meeting decided the following technical specification for the ITC equipment to be purchased from the above mentioned project.

Technical Specification for QE/IPCE System (300-1100 nm range) with DC Measurement Mode for solar simulator :

We would like to procure a QE/IPCE System for 300-1100 nm range with DC measurement mode without light source. The system will be used for doing QE/IPCE/simulator of DSSC cells.

S	Tender Specs
1	Monochromator: Spectral range: 300-1100 nm and preferably up to 1800 nm Slits: Fixed or Micrometer Gratings : 2 or 3 Foal length: ≥ 125 mm F/# : ≤ 4 USB and/or RS-232 control Wavelength accuracy : <1 nm Stray light $<0.05\%$ Software should be LabView based Should be compatible with all other items like Source, Filter wheel etc.
2	Light Source: We have 150 W Xe Arc Source from New Port. We shall use the same source for the QE system.
3	Light Source to Monochromator Coupling: Should be quoted.
4	Power Meter: To be quoted for IPCE/EQE measurements. Should be able to communicate with the software for QE measurement.
5	Reference Detector: NIST traceable Calibrated Si Detector for 300-1100 nm
6	Thermopile Detector: Quote a Thermopile detector compatible to above mentioned Power Meter to measure 20 mWatt to 10 Watt range.
4	All necessary focusing and coupling optics should be quoted
5	Filter Wheel: Automated Filter wheel with at least three filters should be quoted for second order sorting.
6	The system can be supplied as single box solution. In case, if you are supplying components please quote for the Optical Breadboard (2x3 ft), and all necessary and compatible mounting accessories including sample holders. All the items should be compatible with each other and Vendor should guarantee for the installation. Also, vendor should have the experience in such installations.
7	The system have the option to perform as a Solar Simulator. Please quote for the items required to convert Light Source into QE set up without affecting Solar Simulator
8	Software should be included to do EQE/IPCE/Spectral response measurements.
9	Cell Holder, Rail and Carrier for mounting Reference detector and test cell to be quoted.
10	System should be supplied with QE test cell for testing purposes.
11	Vendor should have minimum of 3 installations in India

Optional:

Warranty: 2 years.

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 5% of equipment value 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 along with Technical Bid, 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 visit the website (www.iacs.res.in/tender) for any amendment.
5. **Payments: 90% against delivery and rest 10% payment against successful installation & performance certificate 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. Arun K. Nandi (psuakn@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.

Acting Registrar