

# INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE

Jadavpur, Kolkata-700032

Tender No. CAM/01/NRJ/2012

Date: 22/05/2012

## Sub: **Supply of Zeta Potential Analyzer System**

Sealed tender in two bids system (Part I: Technical Bid and Part II: Price Bid) are invited from bonafide, resourceful and eligible manufacturers/exclusive distributors/vendors for one Zeta Potential Analyzer System with following specifications. Part – I (Technical Bid) of the tender should contain technical details and commercial terms and conditions and Part – II (Price Bid) should indicate group-wise price as mentioned in the Technical Bid. The Technical Bid and Price Bid are to be submitted in two separately sealed envelopes distinctly marked accordingly and both to be put inside another envelope, which should be sealed and superscribed with tender reference no. and due date. The bidders may submit bids duly signed in their own letterheads.

The technical bids will be opened first to evaluate technical specifications of the equipment and there after the price bids of only the technically qualified distributor/vendors will be opened.

**Last date for submission of tender:** June 21, 2012 up to 11 am in the Despatch Section, Indian Association for the Cultivation of Science, Jadavpur, Kolkata – 700032.

**Opening of Technical and Price Bids:** Technical Bids will be opened on June 21, 2012 at 3 pm in the presence of intending bidders or their representatives in the J. C. Bose Meeting Hall of Indian Association for the Cultivation of Science, Jadavpur, Kolkata – 700032. The Price Bids of the bidders qualifying the technical bid will only be opened on the same day.

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

### **A) Technical Bid**

Technical Bid should contain technical details and commercial terms and conditions and kept in a separate envelope duly superscribed as “**Technical Bid**” on the outer cover of the envelope.

### **Detailed Technical Specifications of the Zeta Potential Analyzer System**

**System:** A complete single system having measurement facility for Zeta Potential, Particle Size and Molecular Weight. Primary application would be to measure surface charge, size and molecular weight of nanoparticle.

**Description:**

## a) Zeta Potential:

Minimum measurable particle size: preferably less than 10 nm

Maximum measurable particle size: greater than 5 microns

Zeta Potential range: -125 mV to + 125 mV

Sample volume required: preferably less than 200 microliter to more than 2 milliliter

pH range: 2-12

## b) Particle Size:

Minimum measurable particle size: preferably less than 5 nm

Maximum measurable particle size: greater than 2 microns

Solvent required: aqueous and non-aqueous solution phase

Sample volume required: less than 100 microliter to more than 2 milliliter

pH range: 2-12

## c) Molecular Weight

Minimum measurable molecular weight: preferably less than 1 KDa

Maximum measurable molecular weight: greater than 10 MDa

## d) Measurement system

Laser: standard laser, preferably with wavelength > 600 nm

Measurement angle: 180 degree or 90 degree or other angle

Sample compartment: quartz cell and disposable polystyrene cell

Temperature: 0 – 50 degree C

## e) Software

Window based appropriate software with complete control of Zeta Potential Analyzer system.

## vi) Computer and UPS:

Appropriate Desktop and UPS with 30 minutes backup

**B) Price Bid**

Price Bid should indicate group-wise price as mentioned in the Technical Bid and kept in a separate envelope duly superscribed as “**Price Bid**” on the outer cover of the envelope.

**C) General Instructions:**

1. Incomplete and conditional tenders and tenders received after the due date will be summarily rejected without assigning any reasons thereof.
2. 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 for any amendment.

3. **Warranty:** Warranty should be for at least one year from the date of installation. Vendors should separately quote two years additional warranty charges and two years AMC charges from the date of expiry of the standard one year warranty.
4. **Installation/Demonstration/Application Training at site:** Free of cost by the supplier.
5. **Service facility:** Supplier should mention their details of service setup and Manpower in Kolkata who are responsible for after sales support. Response time should be within 24 hours.
6. **Validity of tender:** Tender submitted shall remain valid at least for four months from the date of opening the tender. Validity beyond four months from the date of opening of the tender shall be by mutual consent.
7. The tender should accompany a detailed technical compliance chart.
8. The rate should be inclusive of all taxes, transportation etc. Nothing extra will be paid in addition to the quoted rate.
9. The model number, make, and a printed literature of the product should be submitted.
10. Proposed delivery schedule should be mentioned clearly.
11. Manufacturers/exclusive distributors/vendors should have history of supplying this type of instrument to this or other Scientific Organizations.
12. Authorized Dealership Certificate should be submitted in case of principal manufacturing company is not quoting directly.
13. Guarantee certificate, users manuals etc. are to be handed over to the user after successful commissioning of the system.
14. In the event of date being declared a closed holiday for purchaser's office, the due date for submission of bids and opening of technical bids will be the following working day at the appointed time.
15. For any clarification regarding technical specifications, etc. please send your queries to Dr Nikhil Ranjan Jana ([camnrj@iacs.res.in](mailto:camnrj@iacs.res.in)).
16. The Institute reserves the right to reject any or all of the tenders received without assigning any reason thereof.