

TENDER

FOR

SUPPLY & INSTALLATION OF

**FLOW CYTOMETER - CELL ANALYSIS AND SORTING
(CYTOMETER)**

Tender No.: IITJ/TEN/2010-2011/CYTOMETER/24

Last Date of submission: 29th October, 2010



Indian Institute Technology, Rajasthan
Camp Office: MBM Engineering College, Jodhpur – 342011, Rajasthan
Tel.: 0291-2516823, 2516872, email: iitj@iitk.ac.in

Indian Institute of Technology (IIT), Rajasthan, Jodhpur invites tender for supply, erection, installation and commissioning, testing, demonstration and training of Chemistry / Biology Laboratory Equipment, as per specifications given in the Schedule attached to the Tender form annexed hereto. All offers should be made in the English and should be written in both figures and words. The relevant brochure may also be enclosed. Tender forms can be downloaded from the website (http://www.iitk.ac.in/iitj/tender_notice.htm) of the institute.

The bidders are requested to read the tender document carefully and ensure compliance with all instructions herein. Non-compliance with instructions in this document may disqualify the bidders from the tender exercise.

The Director, IIT Rajasthan, Jodhpur reserves the right to select certain items (in single or multiple units) and reject the others or all mentioned in the Schedule. The Director, IIT Rajasthan, also reserves the right to revise or alter the specifications of the Equipment before acceptance of any tender.

Incomplete tenders, amendments and additions to tender after opening or late tenders are liable to be ignored, and rejected.

The bidders are requested to submit Technical Bid and Price Bid in separate sealed covers as follows:

- (i) Technical Bid containing information regarding business turnover, experience and other details of the firm to judge the suitability of the bidder.
- (ii) Price bid containing prices of the various products clearly mentioning all charges and taxes/duties as may be payable.

The tender shall be submitted in a sealed envelope bearing the following reference on the top left hand corner: "Tender No. IITJ/TEN/2010-2011/CYTOMETER/24", by latest 29th October, 2010 at 15:00 hrs and addressed to:

"The Director,

IIT Rajasthan,

Camp Office: MBM Engineering College, Jodhpur – 342011, Rajasthan"

All tender documents should be deposited in the tender box at the reception of the Institute at Administrative Block or send through courier, speed post or registered post. All tender documents received after this specified date and time shall not be considered.

The Technical bid will be opened on 1st November, 2010 at 4.00 P.M in the Conference Hall of the Institute in the presence of the bidders or there authorized representative, who are present at the time. Price bids of only those bidders will be opened whose technical bids are found suitable by the committee appointed for the purpose. Date and time of opening of price bids will be decided after technical bids have been evaluated by the committee. Information in this regard will be posted on Institute's web site / Notice board. No separate information shall be given to individual bidders.

1. Pre-Bid Meeting:

A Pre-Bid meeting will be schedule on 15th October, 2010 at 10:30 hrs. Bidders are requested to contact Dr. Amit Kumar Mishra, Assistant Professor, IIT Rajasthan (e-mail: amishra.mpi@gmail.com) to confirm if they are attending the pre-bid meeting at his own cost, if any clarification needed.

2. Tender Cost:

A Demand draft of ` 1000.00 /- (Rupees One Thousand only) towards non- refundable tender fee drawn in favour of “Director, IIT Rajasthan” payable at Jodhpur should accompany with the Technical bid document.

3. Earnest Money Deposit (EMD):

A Demand draft of ` 5, 00,000.00 /- (Rupees Five Lakhs only) towards as EMD drawn in favour of “Director, IIT Rajasthan” payable at Jodhpur should accompany with the Technical bid document.

4. Pre – Qualification Criteria:

- a. Bidders should be the OEM / Authorized Partner / Service provider of the OEM, for Partner/ Service Providers, Letter of Authorization from OEM on the same and specific to the tender should be enclosed.
- b. Bidders should have minimum of three years’ experience of supply and installation of CYTOMETER Equipment’s at Educational / Research Institutes, supporting evidence document should be enclosed.
- c. Financial soundness to execute the order with an annual turnover of more than ` 5.00 Corers (Rupees) continuously during last 3 financial years supporting evidence document should be enclosed.
- d. The bidder must not be blacklisted anywhere in India or abroad by any organization whatsoever. A certificate or undertaking to this effect must be submitted.
- e. An undertaking from the OEM is required stating that they would facilitate the bidder on a regular basis with technology/product updates and extend support for the warranty as well.
- f. The bidder should submit copies of Income Tax returns filed for previous three financial years proceeding with current financial year.
- g. Company / Firm should be ISO-9001 certified.

5. Prices:

- a) The Prices quoted should be inclusive of all taxes or duties, packing, forwarding, freight, insurance, delivery and commissioning etc. at destination site (IIT Rajasthan, Jodhpur). IIT Rajasthan is registered with DSIR, Govt. of India (*Custom duty Notification No. 51/96-custom dt: 23 July, 1996 and Central Excise duty Notification No. 10/97-Central Excise dt: 1 March, 1997*) and is, therefore, exempted from Custom / Excise Duty. Exemption Certificate of the same, shall be issued

by IIT Rajasthan, as and when required/asked for.

6. Validity:

The bid should be valid for acceptance up to a period of 180 Days. The Bidders should be ready to extend the validity, if required.

7. Delivery:

All the goods ordered shall be delivered & Installed within 16 weeks from the date of receiving the purchase order at the above destination.

8. Training:

Bidders need to provide the training, at least 04 Personnel with in India or Abroad at their cost. IIT Rajasthan will not bear any training expenditure.

8. Warranty Declaration:

Bidders must give the comprehensive onsite three years warranty from the date of installation of Equipment against any manufacturing defects and also give the warranty declaration that everything to be supplied by us hereunder shall be free from all defects and faults in material, workmanship and shall be of the highest quality and material of the type ordered, shall be in full conformity with the specification.

Any deviation in the material, and the specifications from the accepted terms may liable to be rejected and the bidders need to supply all the goods in the specified form to the satisfaction / specifications specified in the order / contract and demonstrate at the their own cost. ***The payments shall be made only after receiving the materials in the required format and quality to the satisfaction of the Institute Authorities.***

9. Terms of Payment:

- No advance payment will be made for Indigenous purchase.
- 90% Payment of the total order value shall be released by the Institute only after receipt of materials and balance 10% will be released after complete installation of the Equipment in good condition.
- In case of Import supplies payment will be made through 100% irrevocable Letter of Credit or by TT.

10. Tender expenses and documents:

- All costs incurred by the bidder in the preparation of the tender shall be at the entire expense of the bidder.

11. Tender Evaluation Criteria:

- Bids will be evaluated on the basis of the terms & conditions already incorporated in the tender document, based on which tenders have been received and the terms, conditions etc. mentioned by the bidders in their tenders. No new condition will be brought in while scrutinizing and evaluating the tenders.
- The Committee will examine all the bids to determine whether they are complete, whether any computational errors have been made, whether required sureties have been furnished, whether the documents have been properly signed stamped and whether the Tenders are generally in order.
- Prior to the detailed evaluation of Price Tenders, the committee will determine the substantial responsiveness of each bidder to the tender document. The substantially responsive bidder is one, which accepts all the terms and conditions of the tender documents without material deviations. Deviations from, or objections or reservations to critical provisions such as those concerning EMD, Delivery, Warranty, Taxes & Duties, Force Majeure and other terms & condition of the tender. The committee determination of a Tender's responsiveness is to be based on the contents of the tender itself without recourse to extrinsic evidence.
- If a Tender is not substantially responsive, it will be rejected by the Purchaser and cannot subsequently be made responsive by the bidders by correction of the nonconformity.
- The tenders will be scrutinized to determine whether they are complete and meet the essential and important requirements, conditions etc. as prescribed in the tender document. The tenders, which do not meet the basic requirements, are liable to be treated as non – responsive and will be summarily ignored.

12. Award of Contract:

- Committee reserves the right to accept any tender and to reject any or all tenders.
- The Committee reserves the right to accept in part or in full any tender or reject any or more tender(s) without assigning any reason or to cancel the tendering process and reject all tenders at any time prior to award of contract, without incurring any liability, whatsoever to the affected bidder or bidders.
- The committee will scrutiny the bids and tender evaluation will determine to its satisfaction whether the bidder, whose bid has been determined as the lowest evaluated responsive tender is eligible, qualified and capable in all respects to perform the contract satisfactorily. If, there is more than one schedule in the List of Requirements, then, such determination will be made separately for each schedule.
- The contract will be awarded to the lowest evaluated responsive bidder decided by the committee.

13. Liquidated Damages (Late Delivery):

- The Equipment should be delivered and installed within specified period as specified in the purchase order and be ready for use within 16 weeks of the issue of purchase order unless otherwise prescribed. If the bidder fails to deliver and place any or all the Equipment or perform the service by the specified date, penalty at the rate of 1% per week of the total order value subject to the maximum of 10% of total order value will be deducted.

14. Return of EMD:

- The earnest money of the successful bidder will be deposit as security money and return to them without any interest after completing the successful contract.
- The earnest money of unsuccessful bidders will be returned to them without any interest with in thirty day after awarding the contact.

BID PARTICULARS

1. Name of the Supplier :

2. Address of the Supplier :

3. Availability of demonstration of equipment : Yes / No

4. EMD enclosed : Yes / No if Yes
D.D. No. _____ Bank _____ Amount _____

5. Name and address of the Officer to whom all references shall be made regarding this tender enquiry.

Name :

Address :

Telephone No. :

Fax No. :

Mobile No :

e-Mail :

Web :

**Item No. 1: FLOW CYTOMETER - CELL ANALYSIS AND SORTING
(CYTOMETER)**

Qty. 01 Nos.

SPECIFICATIONS:

TECHNICAL SPECIFICATION FOR FLOW CYTOMETER- CELL ANALYSIS AND SORTING

1. The bench top Flow Cytometer should be equipped with following air cooled solid state lasers. All the lasers and their optical excitation should not change with nozzle replacement:
 - I) 488 nm (18-25mW or higher)
 - II) 633/635 nm (15-20 mW or higher)
 - III) 375 nm (5-15 mW or higher)
 - IV) 405 nm (20-30mW or higher)
 - V) 561 nm (40-50mW or higher)
 - VI) 445 nm (13-18mW or higher)
2. System should have fixed optical assembly of laser upon the cuvette flow cell to ensure fixed pre-alignment (point of interrogation of the cells should be within the cuvette and not in air).. Also excitation & collection optics of all lasers should be fixed requiring no alignment to be done by operator.
3. The system should have digital compensation with online as well as post-acquisition auto-compensation features.
4. The system should have at least capability of simultaneously measuring 9 fluorescence & 10 or more parameters (including forward and side scatters) measurements for all lasers and must be configurable up to 16 fluorescence parameters or higher
5. The system should come with various size of nozzles (from 70 to 130 microns & more) and their removal and insertion should be possible without realigning of optics, all the lasers & fluidic system and without compromising on the reproducible drop profile.
6. The system should have built in sorter capable of 2-way and 4-way sorting with individual stream deflection controls.
7. System should be able to acquire approx 70,000 events or cells/second or better and sort up to at least 50,000 events or cells /sec or more without effecting purity of > 98%
8. Model should be preferably bench top for ease of operation and appropriate vibration free tables should be provided.
9. The system should have reflective array based collection optics and gel-coupled quartz flow cell to ensure optimal collection efficiency.
10. The system should have software adjustable sample input agitation and temperature control.

11. The excitation and emission light path should be through fiber optic cables ensuring rugged and highly tuned optical assembly for high sensitivity and reproducibility
12. The system should be able to provide various sheath pressure from 5-75 psi. The built in sorter of system should have the capability of two-and four-way sorting.
13. The system should be capable of sample input from various available sources like microtubes, 12 × 75 mm and 15 ml tubes, The system should have facility for deposition of cells by automated cell deposition unit (ACDU) onto the slide and plates of various well capacities (6,24,48,96 and 384 plates) after sorting.
14. Principally the system should be capable of analyzing various markers (Cytokines, chemokines, phosphokines etc) in the suspension and supernatants using bead based assays. Bead array software should be also provided.
15. The system should be complete with user friendly software and should be capable of establishing baseline, settings of system performance and be able to adjust for instrument variability, thereby automating instrument setup, leading to consistent and reliable results. The system should come with suitable software for acquisition, data analysis and applications including bead array applications. System should offer both online and offline compensation during data analysis, with FCS format of data storage.

Data management system: FCS storage to format three work stations. As detailed below or better:

Computer system: state of art (branded only) with following specifications:

- i) Intel Core i3 processor (3 GHz) or higher with 4 MB Cache,
 - ii) 8 GB DDR3 RAM or higher;
 - iii) 500 GB or higher SATA Hard disk;
 - iv) 16x DVD RW drive- 3 No.s
(One acquisition system and 2 offline analysis)
 - v) Network card
 - vi) 27" LCD/TFT Monitor Dell (2 No. per system)
 - vii) Genuine Windows 7;
 - viii) 512 MB or higher Graphics memory;
 - ix) Printer Color Laser - 2 No.s
 - x) A4 Scanner of high resolution - One No.
 - xi) Two additional analysis software should be given with the 2 Analysis systems.
 - xii) 640 GB HDD (Portable) for data storage and data back-up support- Two no.
16. Offer should include at least 130 kits each for Apoptosis, DNA analyses and Cytokines based bead array kit.
 17. The company should include at least 10,000 sample tubes, 200 Lit of sheath fluid apart from the regular startup reagents like QC reagents, calibration reagents, cleaning and rinsing solution.
 18. The company should have a flow cytometry training centre in India. Apart from the onsite training and support, the company should provide technical support and software training and software updates in Principal's R &D Laboratory.

19. The company should have at least twenty high end cell sorter installations in India with a proven track record of maintenance, after-sales services, and application support.
20. The Cytometer should have bio-hazard containment system.
21. A suitable 5KVA online UPS with 30 min backup and other room accessories for installation should be given with the system.
22. The system should be supplied with a three-year on-site parts and service warranty from the date of installation.