

**Open tender notification for the procurement of “High-Efficiency Fluorescence-Activated Cell Sorter” at the Indian Institute of Science, Bangalore**

**(Last date of submission of tenders: 8<sup>th</sup>-October-2021)  
(TENDER FROM DOMESTIC VENDORS)**

Date: 23.09.2021

To whom it may concern

This is a Request For Quote (RFQ) from domestic (India-based) manufacturers for the supply of “**High-Efficiency Fluorescence-Activated Cell Sorter**”, as a part of a tender for the Department of Microbiology and Cell Biology at the Indian Institute of Science.

1. Please send your quotation valid for 90 days for the supply of equipment described below.
2. Your quotation should clearly indicate the terms and conditions of the quotations, delivery, delivery schedule, entry tax, payment terms, warranty coverage, etc.
3. The tender should be submitted in two separate sealed envelopes – one containing the “Technical Bid” and the other containing the “Commercial bid”, both of which should be duly signed and must reach the undersigned on or before 17:00 hours 8<sup>th</sup>-October-2021
4. The compliance table should include all the items and in the same order. The first column should describe your compliance in a “Yes” or “No” response. If “No” the second column should state the extent of the deviation. The “third” column should state the reasons for the deviation if any. The fourth column can be used to compare your solution with that of your competitors or provide details as requested in the technical requirements table below.

**TECHNICAL SPECIFICATIONS**

1. High-performance flow cytometer with Cell sorting having 3 lasers, that is 488nm Blue, and 561 nm Yellow Green laser and a 405 nm Violet laser with 8colors or more with additional forward and side scatter detectors.
2. Future laser addition/up-gradation will be considered as an advantage.
3. A class II, Type Biosafety Containment Cabinet that includes an aerosol evacuation system, designed specifically for housing the system must be provided as factory fitted unit.
4. An extensive set of repositionable bandpass filters must be provided for sharper signal acquisition. All necessary filters, dichroic, and beam splitters are to be included for the above configuration.
5. The system should be capable of sorting and acquisition a speed of 25,000 events per second or more.
6. The system must have Automatic full matrix compensation. The system should be able to perform color compensation of all possible spectral overlaps for all the colors.
7. The cell sorter must be equipped with sensitive detectors for capturing high Sensitivity signals for both fluorescence and scatter detection.

8. A removable and Ultrasonically cleanable 100µm nozzle must be provided for sorting of cells of interest.
9. The system should have superior sensitivity: <80 MESF-FITC, <30 MESF PE or lesser to measure events with low antigen expression and application with dim fluorescence staining, which is achievable by high efficiency, low-noise.
10. The purity of sorted cells must be 98% or better with a 5% target population, sample threshold  $\leq 10,000$  events per second, while the yield rate is above 80% theoretic rate.
11. Sample flow rate: around 10-100µL/min (est.), preferably adjustable to 200µL/min for cleaning.
12. Programmed procedures should include daily clean, shutdown, long-term shutdown, flow cell clean, aseptic clean, sheath filter de-bubble, flow cell de-bubble.
13. The system should be able to perform Automated QC and automatically set, monitor, and adjust the drop delay by continuously computing the correct drop delay during a live sort.
14. The system should be having a 4-way tube sorting capability, preferably with the ability to assign to each sort stream an individual sort Mode. The system should be able to sort cells onto tubes, slides, or multi-well trays.
15. The system supports these sort collection devices: 5 mL tube, 15 mL tube, 96-well plate (deep and shallow) 384-well plate, Slides.
16. The system is having an autoclavable sheath and waste tank, replaceable sterile sample tubing.
17. Additional 50 liters of sheath fluid and 2 quantities of quality control reagents must be provided for the operation of the instrument.
18. The latest compatible workstation will be provided with the sorter
19. License-free software should be provided, or a minimum of 5 sets of licenses for analysis software for offline data analysis should be supplied with the system.
20. The system should be quoted with 3 years of comprehensive maintenance contract (CMC), which should cover all aspects including spare parts, service visits, and aspects related to operations of the instrument.
21. An additional preventive maintenance kit must be provided.
22. A table to house the operating computer must be provided.
23. Operational support for the machine should be provided for 3 years.
24. Annual workshop for training FACS-Sorter users should be conducted by the Vendor, for 3 years.

**Terms and conditions:**

1. The quote should come only from Indian Original Equipment Manufacturer (OEM) or their Indian authorized distributor.
2. The quotations should be on FOR-IISc Bangalore basis in INR only.
3. The quotations should be submitted in two bids system; i.e., Technical bid, and Commercial bid.
4. The technical bid must include all details of technical specifications of the instrument along with commercial terms and conditions masking only the price component. Bill of

materials, brochures, technical datasheets, and any other document may be enclosed to help the evaluation of the technical bid. Please also include warranty terms and any other information on upgradation terms in the technical bid.

5. The commercial bid must include the price of the instrument in Indian currency indicating break up of: Installation, commissioning, and training charges, including any incidental expenses if any.
6. The price of every line item in the commercial bid should be quoted along with the total quoted price for the instrument to be operational (fixed and ready to use) in our facility.
7. Both the Technical and Commercial bid should be put in separate sealed envelopes, and put together in another cover stating, “**High-Efficiency Fluorescence-Activated Cell Sorter**” and should reach us on or before 17:00 hours 8<sup>th</sup>-October-2021
8. The vendor should have a good track record of having previously supplied at least 5 Fluorescence-Activated Cell Analysers or Sorters in India in the last two years (please furnish details)
9. The vendor should have a team of dedicated engineers for application and service support based out of Bangalore
10. The lead time for the delivery of the equipment should not be more than three months from the date of receipt of the purchase order
11. The validity period of the quotation should be 90 days
12. If the goods are found to be defective, they have to be replaced or rectified at the cost of the supplier within 30 days from the date of receipt of written communication from us. If there is any delay in replacement or rectification, the warranty period should be correspondingly extended.
13. The purchaser reserves the right to accept or reject any bid and to annul the bidding process and reject all bids at any time period to the award of construct without thereby incurring any liability of the affected bidder or bidders
14. Please submit the proposal to the following address: The Chair, Department of Microbiology and Cell Biology, Indian Institute of Science, C. V. Raman Avenue, Bangalore 560012.