

**Open tender notification for the procurement of “automated nucleic acid extraction and liquid handling robot” at the Indian Institute of Science, Bangalore**

**(Last date of submission of tenders: 10-April-2021)  
(TENDER FROM DOMESTIC VENDORS)**

Date: 23.03.2021

To whom it may concern

This is a Request For Quote (RFQ) from domestic (India based) manufacturers for the supply of “automated nucleic acid extraction and liquid handling robot”, 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 other containing the “Commercial bid”, both of which should be duly signed and must reach the undersigned on or before 17:00 hours 10-April-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 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.

**SPECIFICATIONS FOR AUTOMATED NUCLEIC ACID EXTRACTION AND LIQUID HANDLING ROBOT.**

1. Touchscreen interfaced system with capability to perform complete walk-away magnetic bead based nucleic acid extraction, throughput liquid handling operations for PCR/qPCR setup, concentration normalization and dilution series, and handling of liquid bacterial cultures in sterile environment.
2. System should be able to support magnetic bead-based extraction of nucleic acid from 1 to 24 samples in 2mL Deep Well Plate format.
3. Should have in-built thermal module for mixing range of 300 – 2000 rpm and temperature range from -15°C below RT to 95°C with time range from 5 seconds to 120 minutes
4. Should have contact-free liquid level sensing to be possible and should have IR sensor to check labware and tips for error-free process
5. Instrument should be equipped with a gripper for automatic labware exchange and for tip tray exchange
6. Should be an open system for standard labwares and magnetic bead based kits from various vendors.

7. Software with pre-loaded and calibrated lab-ware files for easy execution of all liquid handling tasks.
8. Software must be installed in the dedicated touchscreen control panel and ready for use immediately after instrument installation.
9. User should have choice to use filter and/or non-filter tips.
10. Should have flexibility to reuse tips, and must have separate container for tip & liquid disposal.
11. System should be supplied with liquid tub for liquid disposal.
12. Pipetting range of the instrument must be from 200 nL to 1000 µL with options for single- and eight-channel pipetting tools with pipette and multi-dispense mode.
13. Should have both free-jet dispensing technology for conventional volumes and contact dispensing technology for lowest volumes.
14. System should be supplied with single channel and 8 -channel tools to cover volume range from 1ul to 1000ul
15. System must be supplied with minimum 2 dispensing tools on the deck to execute extraction protocol by using supplied kit
16. Should have compatible adapters/accessories for 0.2 mL PCR tubes to 50 mL tubes; 6 to 96 and 384 well plates for procurement in future to support developing new assay protocols under optional accessories.
17. Dispensing tools must be autoclavable. Volume and calibration details should be stored in the pipetting tool for future validation & calibrations.
18. Typical pipetting precision should be < 2% CV at 1 µL assessed through 3<sup>rd</sup> party and specifications should conform to ISO standards.
19. Should have USB ports for data and/or protocol transfer.

### **Terms and conditions:**

- 1) Quote should come only from Indian Original Equipment Manufacturer (OEM) or their Indian authorized distributor
- 2) The quotations should be submitted in two bids system; i.e., Technical bid, and Commercial bid.
- a) 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.
- b) The commercial bid must include the price of the instrument in Indian/Foreign currency indicating break up of:
  - i. For goods:
    - i. Price (FOR-IISc Bangalore basis in INR only).
    - ii. Installation, commissioning and training charges, including any incidental expenses, if any.
    - iii. Agency commission charges, if any.
    - iv. Provide certificates for country origin of manufacturing for each line item

- II. 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
- c) Both the Technical and Commercial bid should be put in separate sealed envelopes, and put together in another cover stating “automated nucleic acid extraction and liquid handling robot” and should reach us on or before 17:00 hours 10-April-2021
  - 3) The vendor should have a good track record of having previously supplied at least 10 same automated nucleic acid extraction and liquid handling robot systems in India in last two years (please furnish details)
  - 4) The vendor should have team of dedicated engineers for application and service support based out of Bangalore
  - 5) The lead time for the delivery of the equipment should not be more than three months from the date of receipt of purchase order
  - 6) The validity period of the quotation should be 90 days
  - 7) Import code of the items should be indicated
  - 8) 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.
  - 9) 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 award of construct without thereby incurring any liability of the affected bidder or bidders
  - 10) 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.