

**Global Tender Notification for the procurement of  
“Automated Liquid Handling System” at the Department of Chemical Engineering,  
Indian Institute of Science, Bangalore**

**July 29, 2024**

Dear Sir/Madam,

**Subject: Automated Liquid Handling System for Research Laboratory Usage**

This is a request for global tender quotations for the purchase of an **“Automated Liquid Handling System”**.

This instrument is intended for high-precision liquid handling in various types of biological and biochemical studies. The system will be used for Serial dilutions, High-throughput screening, PCR setup, ELISA, cell culture and genomics research.

The equipment is exempted from local tendering, and this machine’s GTE is listed (Item No. 118) in the GOI, MOF office memorandum dated OM No. F.4/1/2022- PPD (pt) Dated 21.06.2022.

**Terms and conditions for submission of bids**

Your quotation should clearly indicate the terms and conditions of the quotation, delivery schedule, entry taxes, customs duty, if any, payment terms, warranty coverage, etc.

- **The quotations should be submitted in single bid system.**
- The bid must include all the details of the instrument’s technical specifications and terms and conditions. Bill of materials, brochures, technical datasheets, and other documents may be enclosed to help evaluate the technical bid. Prices quoted should include all taxes, duties, delivery of the items to the site, and installation.

- The bid must include the instrument's price in Indian or Foreign currency with delivery terms CIP/CIF- IISc Bangalore basis.
- The warranty should be for a period of 1 year from the date of installation with options for purchase of additional warranty for 3 more years.
- If the goods are found to be defective, they must be replaced/rectified at the cost of the suppliers within 15 days from the date of receipt of written communication from us. If there is any delay in replacement/rectification, the warranty period should be correspondingly extended.
- Conditional tenders will not be accepted.
- The purchaser reserves the right to accept or reject any bid, to annul the bidding process, and to reject all bids at any time before the award of the contract without incurring any liability to the affected bidder or bidders.
- **Please submit your bid, valid for at least 90 days**, along with all the terms and conditions.
- **The last date to submit your bid is 17<sup>th</sup> Aug 2024.**

### **Specifications of “Automated Liquid Handling System”**

1. System Type: Automated Liquid Handling Robot.
2. Software: Windows (or Mac/Linux) based integrated with easy-to-use software for protocol design.
3. Pipetting Channels: At least One 8-channel P200 pipetting capability or equivalent and necessary adaptors.
4. Volume Range: Minimum 5 µL to a maximum of 1000 µL.
5. Throughput: Capable of handling at least 300 samples per hour.
6. Accuracy and Precision: High accuracy and precision, comparable to manual pipetting.
7. Deck Capacity: Must accommodate at least 4 labware items simultaneously.
8. Magnetic Block: Includes a magnetic block for 96 plate based magnetic bead separation.
9. Plate Gripper: Includes a plate gripper to allow movement of 96 well plates between different positions.
10. Pipette tips and racks: Includes pipette tips and racks (20 x 96 tips for each category; 200 µl filter tips, 200 µl regular tips, and 1000 µl filter tips, 1000 µl regular tips)
11. Labware Compatibility: Compatible with a wide range of labware including tubes, plates, and slides.
12. Integration Capability: Ability to integrate with additional modules like temperature control, etc.
13. Footprint and Weight: Compact design with dimensions and weight compatible with desktop usage.
14. Power Requirements: Compatible with standard Indian electrical outlets (240V/50Hz).

15. Safety Features: Must include necessary safety features including emergency stop.

16. Compliance Standards: Must meet relevant international standards for laboratory equipment.

### **Scope of Work**

The supplier will be responsible for:

- Supplying the liquid handling system with all necessary accessories and software
- Providing training to staff members
- Providing after-sales service, including necessary warranties and maintenance

The bids for the “**Automated Liquid Handling System**” should reach us on or before 17th Aug 2024 should reach the following address by email or post.

### **The bids should be addressed to:**

The Chairman,

Department of Chemical Engineering,

Indian Institute of Science,

Bangalore 560012, India.

Kind attention: Prof. Rahul Roy, Chemical Engineering

Email: chair.ce@iisc.ac.in, rahulroy@iisc.ac.in, rahulfx16@nanobiophotonics.org