

**Open tender notification for the setting up “Genomics Lab for Virus-Host sequencing” at the Centre for Infectious Disease Research, Indian Institute of Science, Bangalore**

**(Last date of submission of tenders: 12<sup>th</sup>-November-2021)  
(TENDER FROM DOMESTIC VENDORS)**

Date: 11.03.2021

To whom it may concern

This is a Request For Quote (RFQ) from domestic (India-based) manufacturers for a Turn Key project for setting up “**Genomics Lab for Virus-Host sequencing**”, as a part of a tender for the Centre for Infectious Disease Research, at the Indian Institute of Science. The bidders should strictly follow GOI notification dt 16 Sep 2020.

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 12<sup>th</sup>-November-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**

The ‘**Turnkey Project**’ to setup “**Genomics Lab for Virus-Host sequencing**” will include supplying following equipment with their technical specifications provided below.

**1. The Sequencer System.**

- The Sequencer System/Equipment is required for high quality sequencing of various sample types.
- Sequencing Technology: True base by base reversible terminator sequencing utilizing high quality optics.
- It should provide robust genome sequencing with high quality data with base calling error rate of 1:1000 or lower equivalent to Q30 data for >75% data without filtering.
- System should be able to generate 12-15 Gb data using 2X300 cycles technology or equivalent in a single run.

- It should be able to generate alignable sequence data, capable of detecting insertion-deletion (in-del) variants using suitable technology like Short Read Paired End Sequencing.
- It should provide a True Base-by-Base Sequencing that enables accurate data for a broad range of applications. The method should virtually eliminate errors and missed base calls associated with strings of repeated nucleotides.
- It should be able to read at least 15 base homopolymer stretches correctly.
- It should have touch screen for easy operation and clonal amplification along with chip loading which also should be fully automated on-board.
- It should be an open system with flexibility of supporting third party library kits/reagents supporting diverse applications such as
  - Viral/Bacterial Genomes Sequencing,
  - Targeted Amplicon Sequencing,
  - Targeted Expression Profiling,
  - Small RNA Sequencing etc.,
- Sequencing System should be quoted with standard one year warranty which should cover internal calibration of the system and replacement of spares if any. The supplier must provide on-site training at free of cost at the time of installation. Additionally support for sequencing samples is to be provided as required during the first year.

### **Specifications for Accessory Equipment's:**

Sequencing system should be supplied along with the following accessory equipment's to carry out the Next Generation Sequencing (NGS) Experiment with standard one year warranty.

#### **1. Analyzer for estimation of DNA & RNA quantity & Quality (Desktop Model):**

- Automated tape-based system for the quality control of biomolecules viz., Nucleic Acids and Protein samples.
- System capable of processing 1-16 samples at a time.
- It should be an integrated system with software for calculating RIN and DIN nos with respective consumables.
- It should be suitable for Next-Generation Sequencing (NGS) delivering highly precise analytical evaluation of various sample types.

#### **2. Fluorometer for Quantitation:**

- Fluorometer should be capable of performing accurate quantification of DNA, RNA, and protein in less than 3 – 5 seconds per sample.
- It should be suitable for NGS Application.
- It should have easy-to-use touch-screen menus which make it easy to select and run the assays, with results displayed in just a few seconds.
- It uses as little as 1  $\mu$ L of sample.
- It should have On-board Reagent Calculator to quickly generate preparation instructions for working solution.
- It should have flexibility to export data to using the included WiFi dongle, a USB drive, or directly to your computer via a USB cable

#### **3. Low volume spectrometer for Quantitation:**

- Spectrometer capable of performing accurate quantification of DNA, RNA, and protein in less than 5 seconds per sample.
- It should be suitable for NGS Application.
- It should have easy-to-use touch-screen menus which make it easy to select and run the assays, with results displayed in just a few seconds
- System should have LCD display with LED source and photodiode detector.

#### **Technical Support**

- 1 year technical support from the vendor for training of personnel and operation of sequencing equipment.
- Support for sequencing of first batch of 1000 COVID-19 RNA samples (optional).

#### **Warranty**

- 1 Year standard warranty + 2year extended warranty that covers cost of engineer visit, repair and part replacement (optional).

#### **Supply terms**

Within 6 weeks of PO release, items must be supplied, installed and verified.

#### **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, “**Genomics Lab for Virus-Host sequencing**” and should reach us on or before 17:00 hours 12<sup>th</sup>-November-2021

8. The vendor should have a good track record of having previously supplied at least 5 listed sequencing equipment 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 Convener, Centre for Infectious Disease Research, Indian Institute of Science, C. V. Raman Avenue, Bangalore 560012.