



Ref.No.NIRT/Stores/AMC/VI &BI /2022-23

Date: 22-03-2023

**ENQUIRY**

**Sub: Quotations for Next Generation Sequencing- reg.**

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Sealed quotations are invited for undertaking Service for the **Next Generation Sequencing** which are available at Virology & Biotechnology Department at NIRT, Chennai. The last date for receipt of quotations is 11.04.2023. The details are available in the NIRT website [www.nirt.res.in](http://www.nirt.res.in)

S.No.	Item
1.	Next Generation Sequencing of 20 samples (As mentioned below)

**Scope of work:**

**Name of the service:** Next-Generation sequencing service (without downstream data analysis)

**Technical Specifications:**

1. A total of 20 samples are required to be sequenced in this project. The institute would submit purified PCR amplified products of HIV-1 viral species from clinical samples (20 Nos) and requires sequencing of the amplicons of approximately 3kb gene fragment size through illumina sequencing platform.
2. **Scope of work to be covered include-**
  - A. It will be the responsibility of the service provider to collect the samples from the lab and transport to the sequencing center of the service provider under proper conditions. The institute will not provide any payment for the transportation of samples and neither will be responsible for any loss of samples during sample shipment.
  - B. Sequencing should be preferably performed on an illumina sequencing platform, viz., Miseq and above available in any of the sequencing service providers in India.
  - C. The service provider shall investigate in a timely manner on anomalies found that may be due to the sequencing process and that significantly affect the quality of the data. If demonstrated to indeed be due to the sequencing process,

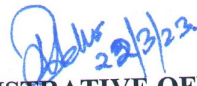


- the service provider must notify NIRT, including which samples were affected, and resolve the issue in a timely manner. In such case, the institute reserves the right not to pay for the sequencing of those failed samples. The service provider shall request fresh additional samples and carry out sequencing at free of cost.
- D. The service provider shall maintain a turnaround time of 20 working days from the date of sample QC and if the data is made available later than the maximum turnaround time after receipt, the institute reserves the right to pay only 50% of the cost.
- E. NIRT shall provide the reference gene fragment of HIV-1 envelope that has to be assembled with each sample and for each sample >90% target regions should be captured and sequenced.
- F. The sequencing data generated is the sole property of the institute and must be maintained with confidentiality. The service provider shall not disclose the data to any third party persons neither should publish the data in any of the journals or in any formats. The service provider must be willing to sign appropriate forms in this regard at the time of accepting, executing this work.
- G. Post sequencing, the service provider shall ensure appropriate data cleaning processes for removing any adaptor sequences or other sequences that are added as part of the sequencing process itself from the sequence data and the following are the minimum deliverables required from the service provider:
- A minimum of 1000X sequencing coverage with a quality score of 30 PHRED for bases of individual reads used for coverage is required, along with sample QC data, FASTQ raw files (without adaptor sequences after data cleaning steps), FASTA files of each submitted samples with the sample identifiers. Sample QC analysis should be done at no extra cost and report should be submitted within 5 working days after receiving the samples. Raw FastQ file, Clean FastQ file and sequencing details should reach the contact investigator listed below through email or in hard disk within 20 working days after sample QC is completed.



### Terms & Conditions

1. The NIRT Office reserves the right to accept or reject any or all applicants without assigning any reasons.
2. Any decision taken by the Director, NIRT at any point of time in connection with this process shall be final and conclusive and no claim or dispute from any quarter in that regard shall be entertained.
3. Sealed quotation marked confidential and super scribed as **“Service for the Next Generation Sequencing”** must be dropped in the quotation box kept at Administration (Stores) section or can be sent through speed post / courier addressed to The Administrative Officer (Stores), National Institute for Research in Tuberculosis, ICMR, No.1 Mayor Sathyamoorthy road, Chetpet, Chennai-31 so as to reach latest by **11.04.2023 at 3.00 PM**. The last date may be extended subject to requirement.
4. No advance payment will be made before executing the Service. The payment will be made on rendering the services with satisfactorily report of end users.
5. NIRT, Chennai will not be responsible for any delay or late receipt of quotations and the same will not be considered under any circumstances.
6. No extra payment will be made on account of sample transportation and data analysis.
7. While submitting the quotations the rate against each work and net amount to be paid, GST etc. should be specified separately.
8. In case any discrepancy / breach in service contract is noticed during the period of service the loss will be ascertained and is liable to the recovered.

  
**ADMINISTRATIVE OFFICER**