



No. JIP/MICRO/ CRG/2018/001597/EMR/2021

Date: 06.05.2021

To  
M/s.

Sub: Limited Tender invited-Consumables

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Please quote your lowest rates for supply of the items mentioned in the requirements for the project titled: "**A Comprehensive analysis of changing diversity of Shigella in terms of its Virulence, Resistance and Serotype**" as per the list given overleaf/attached, subject to the following terms and conditions:

1. Rates should be quoted only for the items which are available in stock and can be supplied immediately on receipt of order.
  2. No insurance charges are payable as per the rules in the Government. As such, the firms before quoting should take into consideration all the risks in the transit and then furnish Limited Tender which should cover insurance charges also. If any points raised as regards insurance charges after orders are issued, the same will not be entertained and the firms thereafter should effect the supply at their own cost.
  3. Rates should be quoted F.O.R JIPMER Puducherry. Extra packing; forwarding charges etc. should not be quoted.
  4. Delivery is required urgently. Tenders should please state the guarantee delivery period they can offer. As delivery date is essence of the contract, this should be strictly adhered to by the successful tenders
  5. Supply, which is not according to the specifications and not meeting our requirements, will be accepted.
  6. The Principal Investigator shall have the right of rejecting the Limited Tender in whole or part without assigning any reason therefore.
  7. In case of high precision instruments the firms should give a guarantee certificate for their satisfactory performance.
  8. Limited tender quotation should be sent only by Speed post/Registered post. Hand quotations are not accepted.
  9. Installation, if any had to be done within one week of receipt of item
  10. Brand name, Model as applicable is to be mentioned for every item quoted.
  11. Price for each item must be quoted separately. The firms participating in the limited quotations must have registered with the purchase section of JIPMER (purchase section) before last day to submission. If not, the firms may be registered before quoting their rates. Quotation from unregistered firms will not be accepted.
- For more details in this regards please see JIPMER website: [www.jipmer.edu.in](http://www.jipmer.edu.in)

NOTE:

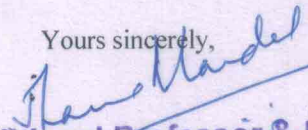
1. Quotation may please be addressed to, The Director, JIPMER, Pondicherry-605006
2. The sealed cover (quotation) may please be send directly to, **Dr. Jharna Mandal, Additional professor and Head, Institute Block II<sup>nd</sup> floor, Department of Microbiology, JIPMER. Pondicherry – 605006.**

Please furnish your limited Tender in a sealed cover super scribing as: **Limited Tender for the DST-SERB Extramural Project.**

Last Date: **26.05.2021** Limited Tender should reach this Office on or before: **26.05.2021**

Limited tender received after the due date will be summarily rejected.

Yours sincerely,

  
Additional Professor & Head  
Department of Microbiology  
JIPMER, Puducherry-6.

Project Title: "A Comprehensive analysis of changing diversity of Shigella in terms of its Virulence, Resistance and Serotype"

**Denovo whole genome sequencing of Shigella isolates and complete bioinformatics analysis (genome size 5MB)**

**Rate may be quoted per sample seperately**

1. With bioinformatics analysis
2. Without bioinformatics analysis

Technology: Illumina Platform

Shigella bacteria DNA quality control check on agilent Bioanalyzer 2100

DNA quality check using Qubit Fluorometer

Library preparation and QC Paired End Sequencing (2x 150) using Illumina Platform

**Advanced Bioinformatics analysis of the sequenced data**

1. Raw data quality control-nucleotide Distribution, GC content Distribution
2. Primary assembly
3. Secondary merged assembly-Genome Scaffolding
4. Preparing Shigella spp. Draft genomes
5. Gene modeling & prediction
6. Gene annotation & function Biological analysis
7. Visualization of annotated data using genome browsers
8. Phylogenetic classification of the assembled genome
9. Molecular phylogeny analysis of functional gene set of interest
10. Submitting data to SRA
11. Re-analyzing data (if necessary)
12. Coverage required 100x

**Deliverables**

1. QC report of DNA on Bioanalyzer Raw data QC and statistics of raw reads and of clean and filtered reads.
2. Shigella sequencer raw data in FASTQ format
3. Shigella assembled genome in FASTA format
4. Complete Bioinformatics Analysis report

*Jharna Mandal*  
6.5.2021  
(Dr. Jharna Mandal)  
Additional Professor & Head  
Department of Microbiology  
JIPMER, Puducherry-6.