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DEPARTMENT OF MICROBIOLOGY

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Khem Raj

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QUOTATION NOTICE

DHR/KR/2022/04; dated 26.07.2022

Certified that this quotation document for the WHOLE METAGENOME SEQUENCING OUTSOURCING has been uploaded today i.e 26.07.2022 at Dept. of Microbiology, Panjab University, Chandigarh website and will remain open till the last date i.e. 09.08.2022.

Quotations are invited for the WHOLE METAGENOME SEQUENCING OUTSOURCING in the DHR-sponsored project

Subject: Call for a quotation for the WHOLE METAGENOME SEQUENCING OUTSOURCING in the DHR-sponsored project

Dear Sir / Madam

Please send your quotation by registered post/courier for WHOLE METAGENOME SEQUENCING to Khem Raj's lab no 321 in the Department of Microbiology, Panjab University, Chandigarh. While submitting the quotations please take into consideration the following points.

LAST DATE AND TIME FOR RECEIPT OF QUOTATION 9th August 2022 till 4:00 pm

DATE AND TIME OF OPENING OF QUOTATION 10th August 2020 till 11:00 am

The quotation should be in two separate bids i.e., Technical bid and Commercial bid (price bid). A technical bid should contain all the technical details of the product, literature/catalogue/quality certificates/customer list, supply terms and conditions etc., along with an authority letter from the manufacturer in a sealed envelope marked as a Technical bid.

Commercial bid (Price bid) should contain the information about the prices and the applicable taxes both in words and figures in sealed envelopes marked as “Commercial Bid”

- Please quote F.O.R. destination Chandigarh only in INR.
- The price should include all the charges, GST and other taxes.

Tender Specification for Whole metagenome Sequencing:-

Specification

The samples will be sent as metagenomic DNA.

Sample should be sequenced with 2 x150 bp paired-end reads with \geq 40X coverage and at least 5GB of data/sample

Sample requirements:

1. Sample metagenomic DNA to be picked up from Lab No 321, Department of Microbiology, PU, Chandigarh as and when required (irrespective of batch size)
2. Sample to be transported at 2-8°C.
3. DNA QC using Nanodrop 260/280 with OD, 1.8/2.0 with Qubit QC report with NGS Grade DNA.
4. The yield of metagenomic DNA (in microgram/ml) is to be documented and intimated individually for every sample.
5. The DNA is to be split into 2 parts: i.e. 3-4 ug (or as required for processing; amount to be documented and intimated individually for every sample) to be retained by the lab for further processing and the remaining sample to be returned to the office of the PI [sample to be preserved at 2-8 °C, latest within 15 days of sample collection
6. Sample DNA QC report should be submitted within 5 working days after receiving the samples

Whole Metagenome sequencing

1. Whole metagenome sequencing.
2. Deep sequencing of the samples using an appropriate platform for complete metagenome sequencing.
3. Analysis for microbial diversity (alpha & beta), abundance & functional prediction using optimized and **latest pipelines**.
4. Metagenome analysis with suitable server for both assembled and unassembled data and validation of unassembled microbes.

5. Metagenomic sequences should be annotated using an evidence-based annotation approach for all sequences against protein databases.
6. Genes prediction should be tabulated and classified into functional categories from individual genes to cellular processes.
7. Relative abundance for each gene should be calculated.
8. Functional analysis of bacterial and fungal cells along with identification of pathways.

Other terms:

1. The vendor should provide a facility certificate to testify the possession of an in-house NGS platform in the name of the Company. The complete scope of work should be done in India only.
2. The vendor should have demonstrated scientific capability for the successful completion of undertaken metagenomic/genomic projects, as documented by the vendor having research publications in peer-reviewed journals for at least metagenomic/genomic study projects. An appropriate web link to support this claim should accompany the proposal.
3. The vendor should specify the government service tax in the financial bid.
4. Acknowledged recognition for the vendor's repute as demonstrated by its participation in any Multi-nation and Multi-ethnic metagenomic/genomics study project would be preferred.