

DEPARTMENT OF MICROBIOLOGY
PANJAB UNIVERSITY, CHANDIGARH

QUOTATION NOTICE

Micro/PS/ICMR/2017/03; dated 09.06.2017

Certified that this quotation document for the BACTERIAL WHOLE GENOME SEQUENCING OUTSOURCING has been uploaded today i.e. 09.06.2017 at Dept. of Microbiology, Panjab University website and will remain open till last date i.e. 30.06.2017.

Quotations are invited for the BACTERIAL WHOLE GENOME SEQUENCING
OUTSOURCING in the ICMR sponsored project

SPECIFICATIONS

Technical specification No. of Samples		85 samples Quote must be in rupees per sample basis
Whole-genome Sequencing		
1.	Sequencing techniques	Illumina HiSeq2500/NextSeq 500 Platform
2.	Sequencing method	Whole genome re-sequencing (paired-end) starting with Sequencing library preparation, high throughput sequencing followed by Reference mapping. Bacterial Genome Size: 4 MB. Short Insert Library preparation & 2X10 PE
3.	Sequencing quality	Q30 or higher quality reads
4.	Sequence coverage	Minimum 100X
5.	Genome Coverage	100% per sample
6.	Data	Both raw and processed data to be provided. Data Delivery in FASTQ.
7.	Data Analysis	Not required. Quote should be for sequencing only.
8.	Quality Control Checks and Filtration	1. Unusual base composition (expected approximately 25% for each base A, T, C and G) 2. Minimum Filtration Criteria (Quality should be more than the criteria provided, anything lesser should be removed) a) Reads with Quality Score (Q) less than 30 b) Reads with Unidentified base ('Ns') more than 20% c) Reads with PCR amplification bias and adapter sequence should be removed d) Poly-A/T tails should be trimmed

Sample Quality Control:

- NGS grade High quality DNA should be isolated from the supplied sample
- The qualification and quantification of gDNA should be carried out by denatured agarose gel electrophoresis and NanoDrop/Qubit Fluorometer analysis.
- DIN value estimation will be carried out

- **16S sequencing should be carried out for DNA quality check before proceed with WGS**

Tender Validity: The price per sample should be valid for a period of two years

Laboratory Setup: No outsourcing is permitted. The laboratory should be functional within India.

List/Details of other Government academic institutions for which sequencing has been done must be provided.

Accreditation Lab should be DSIR / ISO9001/ BSIR Certified.

Full compliance with GLP regulatory requirements (OECD, EMA, US-FDA, US-EPA)

Terms and conditions

1. Quotations should be sent with 2% EMD by **DD** made in the name of **The Registrar, Panjab University, Chandigarh**, returnable at the time of installation.
2. Technical quote and price quote and EMD should be in separate sealed envelopes. Put all 3 envelopes in one big envelop and seal. Send quotations by registered post only

Quotations should reach the undersigned latest by **June 30, 2017**

-Sd/-

Prof. Prince Sharma

PI, ICMR Project

Department of Microbiology

Sector 25, South Campus

Panjab University

Chandigarh 160014