

Government of India
BHABHA ATOMIC RESEARCH CENTRE
MOLECULAR BIOLOGY DIVISION
Trombay , Mumbai- 400 085.

Ref: MBD / 2018/

MBD/OPA/2018/223394

26 November, 2018

Sub: Invitation of quotation for transcriptome sequencing.

Dear Sir,

1. Quotations are invited for the above work as per enclosed technical details .
2. Bidder shall quote for the preparation and sequencing of RNA from bacterial cell exposed to radiation stress.
3. Taxes and excise duties shall be quoted separately. Necessary tax exemption certificates shall be provided if applicable.
4. The quotations must reach Head, MBD by December 10, 2018 and must be sent in a sealed envelope super scribed with the above reference number and due date given above.
5. The address on the envelope should read:
The Head,
Molecular Biology Division
Bhabha Atomic Research Centre
Trombay, Mumbai -400 085.

Attn: Dr. Swathi Kota

6. The bidder shall have to take an insurance policy against any materials issued to him by the purchaser.
7. The fabrication/repair work will be subject to inspection by our officers/engineers. The finished component shall not be dispatched prior to approval by our engineer, at bidder's work, if applicable. Necessary inspection facilities should be provided to our engineer during the fabrication at the bidder's premises, if applicable and necessary.
8. The bidder shall deliver the finished components after approval by our engineer, within 8 Weeks from the date of purchase order issued to the bidder. The finished components and the scrap from the free issue material shall be delivered by the bidder at BARC disposal sites.
9. Head, Molecular Biology Division, BARC reserves the right to accept/ reject any or all quotations without any reason.
10. Technical specification as below..
 - Preparation and quality control assessment of total RNA from Gram-positive bacteria.
 - RNA Sequencing using illumina HiSeq 2500 platform or better
 - Generating at least 2GB throughput and a minimum of 10M read counts with truseq RNA library kit.
 - Complete analysis that should include (i) differential expression analysis, Gene functional annotation, gene ontology, pathway analysis, protein-protein interaction analysis
 - Data analysis should include
 - Mapping: Alignment of reads to the specified reference genome
 - Identification of antisense transcripts
 - Quantification of known transcripts
 - Prediction and quantification of novel transcripts
 - Differential gene expression
 - Heat map, Volcano plot etc. for graphical representation
 - Gene Functional annotation
 - Gene pathway annotation and analysis
 - Protein domain annotation
 - Service provider must provide the following information along with data
 - Methodology of analysis
 - Summary of the key findings of the data from genomic point of view
 - Authenticity of service should be supported with some data warranty
 - No advance payment will be made for the service.

K. Swathi
(Swathi Kota)