

Government of India
Bhabha Atomic Research Centre
Molecular Biology Division

Ref: MBD / 2019/ DPA 123566

30th January 2019

1/2/2019

Sub: Invitation of quotation for transcriptome sequencing.

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 metal stress.
3. The quotation must include the PAN/TIN/ST No. etc. of the firm/supplier. Taxes and excise duties shall be quoted separately. Necessary tax exemption certificates shall be provided if applicable.
4. Duly signed quotations must reach the following address within 10 days from the date of advertisement in a sealed envelope superscribed with "Quotation for transcriptome sequencing (Attn: Divya T V)" indicating the above reference number and due date.
The address on the envelope should read:
The Head,
Molecular Biology Division
Bhabha Atomic Research Centre
Trombay, Mumbai- 400 085
5. The bidder shall have to take an insurance policy against any materials issued to him by the purchaser.
6. The fabrication/repair work will be subject to inspection by our officers/engineers.
7. The bidder shall deliver the analysis report free of cost, alongwith details of the project as a hard copy.
8. The bidder shall deliver the analysis report within three months from the date of purchase order issued to the bidder.
9. The finished components and the scrap from the free issue material shall be delivered by the bidder at Molecular Biology Division, Modular Labs, Bhabha Atomic Research Centre, Trombay, Mumbai- 400 085.
10. Head, Molecular Biology Division, BARC reserves the right to accept/ reject any or all quotations without any reason.
11. Technical specification as below:
 - a. Preparation and quality control assessment of total RNA from *Chryseobacterium*.
 - b. RNA Sequencing using illumina HiSeq 2500 platform or better.
 - c. Generating a minimum of 10M read counts per sample.
 - d. Complete analysis that should include differential expression analysis, gene functional annotation, gene ontology, pathway analysis.
 - e. Data analysis should include
 - Raw reads FASTQ files
 - Quality control of raw reads
 - Assembly statistics
 - 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 with list of up regulated and down regulated genes
 - Heat map, Volcano plot etc. for graphical representation
 - Gene Functional annotation
 - Gene pathway annotation and analysis

- Protein domain annotation
- f. 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
- g. Authenticity of service should be supported with some data warranty.
- h. No advance payment will be made for the service.

Divya T.V.

Divya T V

Scientific Officer-D

Through: Head MBD, BARC

Hausu
31/1/19

डॉ. हरि शरण मिश्रा
Dr. Hari Sharan Misra
अध्यक्ष, आणविक जैविक प्रभाग
Head, Molecular Biology Division
भाभा परमाणु अनुसंधान केंद्र
Bhabha Atomic Research Centre
ट्रॉम्बे, मुंबई - ४०० ०८५.
Trombay, Mumbai - 400 085.