Sub: Invitation of quotation for transcriptome and small RNA sequencing and bioinformatic analysis.

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 August 27, 2020 and must be sent in a sealed envelope supercribed 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.

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.
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 E. coli
    • RNA Sequencing.
    • Generating at least 2GB throughput and a minimum of 10M read counts with trueq RNA library kit.
    • Complete analysis of Transcriptome and small RNA.
    • Data analysis should include:
        o Mapping: Alignment of reads to the specified reference genome
        o Quantification of known transcripts
        o Differential gene expression
        o Heat map, Volcano plot etc. for graphical representation
    • Service provider must provide the following information along with data-
        o Methodology of analysis
        o 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.

Attn: Ms Shruti Mishra

(Shruti Mishra)

MBD/2020/OPA/70567
August 3, 2020
RNA seq analysis of 9 samples of E. coli. We will provide E. coli cells pellet and would expect the followings to be done under this project:

1. RNA isolation- Preparation and quality control assessment of total RNA from E. coli.
2. RNA sequencing. Generating at least 2GB throughput and a minimum of 10M read counts with truseq RNA library kit.
3. Identification of small RNA
4. Complete analysis of Transcriptome and small RNA.
5. Data analysis should include:
   o Mapping: Alignment of reads to the specified reference genome
   o Quantification of known transcripts
   o Differential gene expression
   o Heat map, Volcano plot etc. for graphical representation
6. Data output should be provided separately for
   (i) coding mRNAs and (ii) sRNAs.

Indenter’s Signature
(Shruti Mishra)
(SO/C, MBD)