Ref. FTD/OPA/73440

Sub: Invitation of quotation for bacterial transcriptome sequencing

Date: 13/08/2020

Dear Sir,

Quotations are invited from suitable and eligible bidders for the following work as per following details:

<table>
<thead>
<tr>
<th>S. No</th>
<th>Name of items</th>
<th>Sample no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Transcriptome sequencing of <em>Xanthomonas axonopodis</em> pv. glycines wild type and mutant under different conditions of growth and its analysis (technical details enclosed)</td>
<td>10 No.</td>
</tr>
</tbody>
</table>

*As per Technical Specifications*

The general terms and conditions for submitting quotations are as follows:

1. The party shall arrange all materials & components required for the work.
2. The Party should furnish their PAN No. and VAT/Service Tax/S.T. No along with the quotation, otherwise their quotations are liable to be rejected. Moreover, it may please be emphasized that quotation is submitted on printed letter heads.
3. Quotation must reach Head, Food Technology Division by 8th September, 2020 before 16.30 hrs and should be sent in a sealed envelope superscripted with the above reference number and due date.
4. The address on the envelope should read:
   
   Head, Food Technology Division  
   Bhabha Atomic Research Centre,  
   Trombay, Mumbai – 400085  
   Attn: Mrs. Jyoti Tripathi

5. No advance payment in full or in part will be admissible and payments will be made only after completion of the job.
6. The bidder should provide at least three work completion certificate during the current financial year.
7. The offer shall clearly indicate the time required for completing the entire work, taxes or levy, if any. The offer shall be valid for a minimum period of 60 days from the date of opening the tender.
8. The bidder shall deliver the service within 2 months from the date of issue of work order to the bidder.
9. The work proposed is meant for research purposes of Research Institution under the Dept. of Atomic Energy, and therefore, the purchaser will make available to the successful bidder with whom a work order is placed the 5% GST exemption certificate duly signed by the authorized officer in the Dept. of Atomic Energy well before the completion of the work. While submitting the offer, the bidders should specify in his offer that he is ready to pay 5% GST on the price quoted by him, subject to production of GST exemption certificate.
10. The acceptance of quotation will rest with Head, Food Technology Division, BARC, who does not bind himself to accept the lowest or any quotation and reserves to him the right to reject any or all quotations received without assigning any reason whatsoever.

(Mrs. Jyoti Tripathi)  
SO/D, FTD

Through:

Dr. S.K. Ghosh,  
Head, FTD &  
Associate Director, BSG, BARC

Government of India  
Bhabha Atomic Research Centre  
Food Technology Division

Mrs. Jyoti Tripathi  
SO/D, FTD

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**Technical Specifications**:  

**Bacterial Transcriptome sequencing**:  

**Technical Specifications:**  

1. Quality control assessment of RNA on Agarose gel and by Agilent bioanalyzer with RIN number.  
2. Ribo-Zero treatment should be given to RNA before library preparation.  
3. Quality of library should be assessed extensively before sequencing.  
4. Library should represent even rare transcripts.  
5. RNA Sequencing using Illumina HiSeq 2000/2500 platform or better platform.  
6. Generating at least 20 million paired end reads with minimum 150 bp read length per sample.  
7. At least 90% of reads should have quality > 30.  
8. Low quality reads should be excluded from the analysis.  
9. Data analysis should include the following  
   - Average base content per read  
   - GC content distribution of reads  
   - Read length distribution  
   - Sequence quality score distribution  
   - Base quality score distribution  
10. Complete analysis that should include detailed differential expression analysis, Statistical analysis,  
    Gene functional annotation, gene coverage depth, pathway analysis, protein-protein interaction  
    analysis.  
11. Heat map, Volcano plot, MDS plot etc. for graphical representation should be provided.  
12. Support for uploading data in required format in public databases.  
13. Total RNA and cDNA should be returned.  
14. The bidder shall keep the sequence information and other details confidential.  
15. Service provider must provide the following information along with data  
   - Detailed methodology of RNA extraction, library preparation, platform used and data analysis  
   - Summary of the key findings of data  
   - Data should be provided in external storage device  
   - Authenticity of service should be supported with some data warranty  
   - Raw data file must be there with expression intensity file  
16. No advance payment will be made for the service.