



राष्ट्रीय पादप जीनोम अनुसंधान संस्थान

(जैव प्रौद्योगिकी विभाग, विज्ञान एवं प्रौद्योगिकी मंत्रालय, भारत सरकार का स्वायत्त अनुसंधान संस्थान)

NATIONAL INSTITUTE OF PLANT GENOME RESEARCH

(An Autonomous Institution of the Department of Biotechnology, Ministry of Science and Technology, Government of India)

अरुणा आसफ अली मार्ग, पो. बाक्स नं. 10531, नई दिल्ली-110067
Aruna Asaf Ali Marg, Post Box Number 10531, New Delhi-110067

संख्या: 9/2015/रा.पा.जी.अनु.सं./एस एण्ड पी

दिनांक: 26/5/2015

विषय / Subject: मुहरबंद कोटेशन का निमंत्रण / Invitation of Sealed Quotations

Sir,

We are interested to **outsourcing of small RNA samples sequencing of four rice samples** as per the following specifications for our Institute.

Technical specifications and requirements

1. Required small RNA library preparation and sequencing of four rice samples using Illumina HiSeq sequencing platform 50 bp single end read sequencing chemistry.
2. Need to generate approximately read length of more 50 bp, at least 20 million reads per sample that should give at least 1 Gb clean high-quality sequence data ($Q30 \geq 85\%$) for each sample.
3. Need to carry out complete bioinformatics analysis for genome assembly and mapping of transcript sequence data generated for twelve rice samples which should at least include:
 - a. Quality testing of generated reads and filtering of sequence reads to obtain high quality sequence data.
 - b. Trimming of adapter generated reads.
 - c. Alignment to and identification of sRNA locus/position (MSU rice Pseudomolecule version 7 and miRBase)
 - d. Alignment to identified miRNAs in miRBase to identify homologous ones
 - e. Classification of miRNAs and other small RNAs
 - f. Prediction of novel miRNAs
 - g. Prediction of miRNA targets
 - h. Differential expression analysis
 - i. Comparative analysis with transcriptome data
 - j. Distribution of reads into various non-coding RNA classes
4. Payment terms and conditions, confidentiality of project and a previous at least three years' work experience in small RNA sequencing analysis with publication proofs is necessary in details.
5. Details of all protocols/methods followed for sequencing, and raw as well as high-quality assembled sequence data should be provided in appropriate storage devices.
6. Bioinformatics analysis should be carried out by an experienced person (with publications on the same to his/her credit) who should have a Ph. D. degree in the relevant subject.

Cont. 2



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7. Details of analysis and regular up-dates of work progress should be provided to the respective scientist.
8. Bioinformatics and post-analysis, which should not be limited to the above mentioned descriptions, some of the requirement may change depending on the initial leads, bioinformatics support is required until manuscript preparation and even to satisfy the reviewer's comment, if any.
9. Vendor should provide in-house Illumina Hiseq 2000/2500 facility certificate explicitly on the name of Company (it should not be in lease or a tie up).
10. Samples or data should not be outsourced outside India at any stage.

You are therefore requested to please send your offer in **two bid system** indicating the maximum discount offered. The quotations must accompany a Demand Draft amounting to ₹ 3,200/- (Rupees Three Thousand Two Hundred only), being the EMD in the name of Director, NIPGR, New Delhi and must be sent in a **Sealed Envelope** duly super-scribed on top of envelope as **Outsourcing of small RNA Samples of four rice samples** so as to reach to the undersigned latest by **09/06/2015 (3:00 p.m.)**, the same shall be opened on same day at **3:30 p.m.**

धन्यवाद,

(कय एवं भण्डार अधिकारी)

Encl: Terms & Conditions (Annex – I)

नियम और शर्तें:

- The quotations must accompany a Demand Draft amounting to ₹ 3,200/- (Rupees Three Thousand Two Hundred only), being the EMD in the name of Director, NIPGR, New Delhi. In the event of non fulfillment of work awarded / withdrawal of quotations, the EMD will be forfeited by the Institute.
- The rates quoted by you for the said services shall be valid for a period of one year from the date of award letter and no requests for any increase in the rates will be entertained during the contract period. No advance payment will be made.
- The Director, NIPGR reserves the right to amend any of the terms and conditions contained in the Tender Document or reject any or all applications (offers) or not to award the contract to the lowest bidder without giving any notice or assigning any reason thereof. The decision of the Director, NIPGR in this regard will be final and binding.
- The successful tenderer shall be required to deposit an interest free amount equal to 10% of the tender value of the contract in the form of Demand draft as Performance Security after adjusting the EMD, within 10 days from the date of issue of Letter of Acceptance of Tender, which will be released after expiry of the defect liability period of the contract as per terms and conditions failing which the same will be forfeited.
- The bids will be accepted in respect of those companies having successfully completed one similar work costing not less than ₹ 1,28,000/- or two similar works each costing not less than ₹ 80,000/- or three similar works each costing not less than ₹ 64,000/- and having annual financial turnover of ₹ 1,60,000/- during the last three financial years. Similar works means, work related to analysis of similar samples in Government National Laboratories / Institutions / Universities and reputed Organizations, engaged in the area of Research & Development. Intending tenderers must enclose documents such as Completion Certificates and Work / Supply orders / certified Balance Sheet / ITR Returns for three last financial years.

(कय एवं भण्डार अधिकारी)