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)

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

9/2014/NIPGR/S&P   August 6, 2013

Sub: Invitation of Sealed Quotation

Sir,

We are interested in **Outsourcing of rice whole genome resequencing** as per the following specifications for our Institute.

Technical specifications and requirements

- Whole genome resequencing of two rice samples using Illumina platform with 2x100bp paired-end sequencing chemistry.
- Need to generate approximately 110-130 million reads per rice sample that should give at least 20X sequence coverage of each sample.
- Need to carry out complete Bioinformatics analysis for genome assembly and mapping of sequence data generated for two rice samples which includes:

  - Quality checking of sequence reads and *de novo* assembly of contigs.
  - Mapping/aligning of sequence reads onto the rice reference genome (MSU pseudomolecule version 7.0; http://rice.plantbiology.msu.edu) and generation of high-quality genome assembly and sequences.
  - Structural and functional annotation of sequences (e.g. protein-coding genes, introns, UTRs and splice variants)
  - Mining of SNPs after aligning the high-quality sequences of two rice samples with reference genome and their detailed annotation on the genome.

You are therefore requested to please send your offer along with a copy of PAN & Tin no. certificate and maximum discount that you will be able to offer in a **Sealed Envelope** duly super-scribed on top of envelope as "Quotation for **"Outsourcing of rice whole genome resequencing"** so as to reach to the undersigned latest by **26/8/2013 (3:00 p.m.)**, the same shall be opened on **27/8/2013 (11:00 a.m.)**.

Thanking you,

(**Purchase cum Stores Officer**)