

**BOSE INSTITUTE
KOLKATA**

Tender No.	:	BI/DPB/DBT(WB)-AP/16-17/01
Tender date	:	19/09/2016
Type of Tender	:	Limited

Tender Title	:	Transcriptome profiling of <i>Vigna mungo</i> leaf samples using Next Generation Sequencing technology
Specification	:	<p>Platform for sequencing: Illumina Coverage: 40X or more *Accuracy rate of the protocol should be clearly mentioned with supporting documents Service details: Sequencing samples should be collected from Bose Institute, Centenary Campus. Assessment of the quality of the RNA samples should be done, DNase treatment of RNA samples to be performed if needed. Raw data quality control and reporting, sequence clean up and filtering, assembly of reads, generation of contigs, data accumulation, delivery of raw data in FASTA format or in usable extension file FASTQ file, detection of ORFs, analysis of UTR, alignment with reference genome, detection of homologous genes, generating alignment statistics and reporting.</p> <p>Full functional and structural analysis of data including functional annotation of transcriptomes, calculation of %AT and %GC contents; codon usage table and codon bias report, alternative splicing variant analysis. SNP discovery (both synonymous and asynonymous); <i>in silico</i> subtraction (c-t and t-c) to identify difference in transcripts; differential regulation of genes (digital gene expression), calculate similarity between sequence to construct haplotype and remove paralogs, homology detection, use of pattern hunters to get novel information; GO term analysis, KEGG analysis, aligned reads with genes of interest data, followed by delivery of publication quality data, bioinformatic support should be extended if required until publication. Preference will be given if the analysis could be extended further to integrate the data with the existing small RNA and transcriptome data obtained through NGS platform.</p> <p>There should be a provision for visiting company-laboratory during data analysis.</p>
Quantity	:	Two samples (price should be quoted on per sample basis, analysis charges if any should be mentioned separately)

Last date & time for submission	:	05/10/2016 upto 1 pm
Date & time for opening of bids	:	05/10/2016 at 3 pm
Submission of Tender (Address)	:	Division of Plant Biology, Bose Institute, Centenary Campus, P 1/12 CIT Scheme VII(M), Kolkata
Venue of bid opening	:	Seminar Room, Division of Plant Biology
For any query the interested bidders may contact (Dept./Section/Div./Unit)	:	033 2569 3254

General Terms & Conditions ::		
Warranty	:	Not applicable
Payment terms	:	After Delivery
Delivery schedule	:	Sequencing and initial data analysis including digital gene expression studies, functional annotation and pathway analysis should be completed within 3 months from receiving the samples.
Bid security (earnest money deposit), if applicable	:	Nil
Submission of Performance Bank Guarantee (PBG), if applicable	:	N/A
Any other information (if applicable)	:	Nil
<i>Name of the instrument and submission of tender should be mentioned on the envelope positively.</i>		
Director, Bose Institute reserves the right to accept or reject any or all tenders either in part or in full. The reasons for rejecting the tender of a prospective bidder will be disclosed only when enquiries are made.		

Sr. Prof. & Incharge, Registrar's Office