

BOSE INSTITUTE
KOLKATA

Tender No.	BI/ 2014-2015/DPB/CSIR /SC/ JAN/03
Tender Date	30.01.2015
Tender Type	Limited

Tender Title	De Novo Sequencing and Assembly of two RNA samples of Arabidopsis using next generation sequencing
Specification	<ol style="list-style-type: none"> 1. Tissue samples will be provided and collected by the service provider. High quality total RNA should be extracted from the samples. 2. Read Length should be minimum 150bp paired end or more. Platform should be Illumina Next Seq 500 3. To provide minimum 50 million paired end reads of >Q30. Low quality reads should be trimmed and sent. 4. Assembly of data at various Kmer. 5. Annotation of Assembled Transcripts to uniprot, pfam, NR DB. GO and pathway analysis, Deseq DGE, SSR prediction and SNP report. 6. Provide at least 5 publications (Co-authored and also acknowledged) to be provided for similar work on plant transcriptomes. Company should be more than 5 year old, such that have enough expertise on plant RNA seq 7. All parts of the sequencing work and analysis should be performed only in India. Sample should not be outsourced outside India. Proof of inhouse facility with installation certificate should be provided 8. Turnaround time should be mentioned while quoting. 9. Differential gene expression (DGE) (using previous data as control) , assembly at various Kmers, SNP, Annotation of contigs for transcripts using closest homology, Unigene cluster, SSR prediction, Pathway and gene ontology analysis. 10. Differential regulation graphs by dividing the obtained data into various classes according to the functional annotation. 11. Pathway analysis using KEGG 12. Pie charts doe GO, and COG. 13. Heat maps for differential expression of individual genes in broad classes. 14. Comparative classification of transcription factors and their fold changes. 15. Representative transcripts of all samples. 16. Fold changes expression resented in graph format for all the genes to compare between different treatments. 17. Statistical analysis of reads, contigs, transcripts and unigenes.
Quantity	Two samples

Last Date & Time for submission	12.02.15 upto 2 pm
Date & Time for opening bids	12.02.15 upto 3 pm

Submission of Tender (address)	Division of Plant Biology, Bose Institute, P-1/12, C.I.T. Scheme VII M, Kolkata 700054
Venue of bid opening	Seminar Room, Division of Plant Biology
For any query the interested bidders may contact (Dept./Section/Div./Unit)	Division of Plant Biology, Bose Institute, P-1/12, C.I.T. Scheme VII M, Kolkata 700054 033 2569 3254 / 3297

General Terms & Conditions

Warranty	N/A
Payment terms	Payment will be made after complete delivery of the sample in good condition.
Delivery schedule	Within 6 weeks from date of order & if any defect of the supplied item is found, it should be replaced immediately from your side.
Bid security (earnest money deposit) if applicable	N/A
Submission of Performance Bank Guarantee (PBG), if applicable	N/A
Any other information (if applicable)	

Name of the instrument and submission of tender should be mentioned on the envelop positively.

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. Professor & In-charge, Registrar's Office