BOSE INSTITUTE				
KOLKATA				
Tender No.		DPB/DB/2015-16/01		
Tender Date		16.11.2015		
Type of tender		Limited		
Tender title		o sequencing and assembly of Plant RNA samples using		
	next generation sequencing (Brassica)			
Specification		o sequencing and assembly of Plant RNA samples using next		
	generation sequencing (Brassica)			
	1. 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/Ion			
		provide minimum 45-50 million paired end reads of >Q30.		
	Low quality reads should be trimmed and sent.			
	4. Denovo assembly of data at various Kmer. Using Velvet, Oases,			
		nt, Cufflinks.		
	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 6 publications (Co-authored and also			
	acknowledged) to be provided for similar work on plant			
	transcriptomes. 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			
	provid			
	8. Turnaround time should be mentioned while quoting.			
	9. Additional analysis of DGE, SNP, annotation and SSR should be			
	carried out with already existing data of 8 similar organism.			
		dopsis thaliana should be considered mainly)		
	10. Di	fferential gene expression (DGE) (using previous data as		
	contro	l), assembly at various Kmers, SNP, Annotation of contigs for		
	transci	ripts using closest homology, Unigene cluster, SSR prediction,		
	Pathw	ay and gene ontology analysis.		
		fferential regulation graphs by dividing the obtained data into		
	1	s classes according to the functional annotation.		
		thway analysis using KEGG		
		e charts doe GO, and COG.		
		eat maps for differential expression of individual genes in broad		
	classes			
		emparative classification of transcription factors and their fold		
	change			
		presentative transcripts of all samples.		
		ld changes expression resented in graph format for all the		
	_	to compare between different treatments.		
	10. 51	atistical analysis of reads, contigs, transcripts and unigenes.		
		Please quote for per sample.		
Quantity	Ona			
Quantity	One	Contd Pa (2)		

Contd.... Pg (2)

Last date & time for submission	01.12.2015 upto 01.00 p.m.
Date & time for opening of bids	01.12.2015 at 03.00 p.m.
Submission of Tender (Address)	The Registrar, Bose Institute, P-1/12, C.I.T.
	Scheme VII M, Kolkata-700054.
Venue of bid opening	Seminar room, Division of Plant Biology,
	Centenary Building, Bose Institute, Kolkata
For any query the interested bidders may	033 2569 3254
contact (Dept/Section/Div./Unit)	

General Terms & Conditions	As per specification
Warranty	NA
Payment terms	Payment will be made after complete the job and satisfactorily installation
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	NA
Submission of performance Bank Guarantee (PBG), if applicable	NA
Any other information (if applicable)	NA

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.

Sd/-

Sr. Prof. & Incharge, Registrar's Office