

DEPARTMENT OF BIOTECHNOLOGY
INDIAN INSTITUTE OF TECHNOLOGY – MADRAS, CHENNAI – 600 036
Telephone: 044-2257-4107, 4101: Fax No: 2257-4102

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D.KARUNAGARAN
Professor and Head

Date :23rd Dec 2014

Ref: BT/SMAH/2014/025/SPL

Date: 23rd Dec 2014

Due date: 08th Jan 2015

1. Quotations are invited in duplicate for the various items shown below/overleaf/ enclosed list.
2. The quotations duly sealed and super scribed on the envelope with the reference No. and due date, should be addressed to the undersigned so as to reach him on or before the due date stipulated above
3. The quotations should be valid for sixty days from the due date and the period of delivery required should also be clearly indicated.
4. If the item is under DGS & D Rate Contract, Rate Contract Number and the price must be mentioned. It may also please be indicated whether the supply can be made direct to us at the rate contract price. If so, please send copy of the R.C. (Please note that we are not Direct Demanding Officers).
5. Relevant literature pertaining to the items quoted with full specifications (and drawing, if any) should be sent along with the Quotations, wherever applicable. Samples if called for should be submitted free of charges and collected back at the supplier's expenses.
6. **Local Firms:** Quotations should be for free delivery to this Institute. If quotations are for Ex-Go down, delivery charges should be indicated separately.
7. **Firms outside Chennai:** Quotations should be for F.O.R Chennai. If F.O.R. Consigner stationer freight charges by passenger train/lorry transport must be indicated. If Ex-Go down, Packing, forwarding and freight charges must be indicated.
8. The rates of Sales/General Taxes and the percentage of such other taxes legally livable and intended to be claimed should be distinctly shown along with the price quoted. Where this is not done, no claim for Sales/General Taxes will be admitted at any stage and on any ground whatsoever. The taxes livable should take into consideration that we are entitled to have concessional sales tax applicable to non - government educational institutions run with no profit motive for which a Concession. Sales tax certificates will be issued at the time of final settlement of the bill.
9. Goods should be supplied carriage paid and insured.
10. Goods shall not be supplied without an official supply order.
11. **Payment:** Every attempt will be made to make payment within 30 days from the date of receipt of bill/acceptance of goods, whichever is later

NGS data analysis software

Specification

1. An integrated platform (software) that have to provide analysis, management and visualization tools for next-generation sequencing data. It supports workflows for RNA-Sequencing, DNA- Sequencing, CHIP- Sequencing, Methyl- Sequencing and small RNA- Sequencing experiments
2. RNA-Sequencing: To perform gene, exon and transcript level quantification. To identify novel events, differentially expressed genes and splice forms
3. DNA- Sequencing: To detect SNPs, InDels, CNVs and other SVs. Functional predictions can be made using SIFT, Polyphen2, LRT, MutationTaster and further annotated with information from dbSNP, COSMIC etc.
4. CHIP- Sequencing: To detect peaks using PICS and MACS. To identify TF regulation binding sites, affected genes and histone modification sites. To discover significant motifs and verify them against JASPAR.
5. Methyl- Sequencing: Should support methylation detection, differential methylation analysis across samples/target regions, and biological interpretation on the affected gene list via GO, pathway analysis etc.
6. small RNA- Sequencing: Should support quantification of small RNA species including miRNA, snRNA, snoRNA and scRNA. It also have to help to identify differentially expressed genes and their corresponding mRNA targets.