



DEPARTMENT OF BIOTECHNOLOGY
Indian Institute of Technology, Madras, Chennai, 600 036.
Telephone No.22574126, 22574101, FAX No.22574102

Dr. D. KARUNAGARAN

Professor and Head

Date: 12.03.2018

Ref: BT/HIMS/2017/017/SPL

Dt. 12.03.18

Due Dt. 02.04.18

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-Godown, 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-Godown, Packing, forwarding and freight charges must be indicated.
8. The rates of Sales/General Taxes and the percentage of such other taxes legally leviable 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 leviable 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.

**Minimum specifications for
Monochromator-based microplate absorbance spectrophotometer**

1. UV/Vis wavelength (Absorbance only)
 - i. Range at least 200-800 nm with 1nm increments
 - ii. Wavelength accuracy $\leq \pm 2$ nm
 - iii. Wavelength repeatability $\leq \pm 1$ nm
2. Read modes
 - i. End point
 - ii. Kinetic
 - iii. Spectral scanning
3. Microplate types
 - i. Compatible with 6 to 384-well microplates
 - ii. Absorbance read speed for 96-well plate ≤ 30 seconds
4. Optical density
 - i. Dynamic range 0.0 – 4.0 OD
 - ii. Resolution ≤ 0.001 OD
 - iii. OD accuracy $< \pm 0.006$ OD ± 1.0 %, 0-2.0 OD
 - iv. Stray light $< 0.05\%$ at 230 nm
5. Shaking control – Orbital and Linear
6. Temperature control
 - i. At least ambient $+5^{\circ}\text{C}$ to 45°C
 - ii. Temperature accuracy $\leq \pm 1^{\circ}\text{C}$ at 37°C set point
7. Control software includes data analysis for basic endpoint, curve fitting, kinetic assays
8. USB ports for connecting USB drives, etc.
9. Should be supplied with a suitable branded laptop and a UPS
10. At least 1-year warranty; include additional 2-year warranty
11. Robotic and automation compatibility (strongly desirable)
12. List of at least 5 installations in India