



DEPARTMENT OF BIOTECHNOLOGY
Indian Institute of Technology, Madras, Chennai, 600 036,
Telephone No.22574107, 22574101, FAX No.22574102

D.KARUNAGARAN
Professor and Head

Date: 03.12.2014

Ref: BT/SMAH/019/2014

Dt. 03.12.14

Due Dt.18.12.14

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.

TRINOCULAR INVERTED TISSUE CULTURE MICROSCOPE

Trinocular Inverted Tissue Culture Microscope with LED illumination and long lifetime of 60,000 hours and five years warranty for LED.

Infinity optical corrected system with light path selector of 100:0, 0:100, 10X (paired) and Parfocal Distance 60mm, Sidentopf-type Trinocular tube and Fly eye optics for even illuminator for throughout field of view.

Eyepiece with F.O.V.22mm and Diopter adjustment facility on both the eyepieces.

Extra long working distance condenser.

Quintuple nosepiece to accommodate 5 objectives at a time.

Focus: Coarse Stroke – 37.7mm per rotation, Fine Stroke – 0.2mm per rotation

45mm green filter

Condenser : Extra Long Working Distance Condenser and Non-Centerable Phase Slider with Phase Ring, PHL and PH1

Attachable Mechanical Stage : Stage Movement : 126 (X) x 80 (Y) mm

Universal holder : to accept all types of specimen holder (Slide Glass, Hemocytometer, Petri Dish Microplate and Terasaki).

Achromat 4X A, N.A. 0.10, W.D. 30.0mm

Long working distance objective with enhanced phase contrast facility of objective 10X (N.A.0.25, W.D 5.2mm), 20X (N.A.0.40, W.D.3.0mm) 40XC (N.A. 0.55, W.D. 2.7 – 1.8mm) Ph2 suitable for Bright Field / Phase Contrast and Plan fluorite 40XC (N.A.0.6, W.D.3.6-2.8mm)

Monochrome Microscope Camera

Size : 36.0 × 23.9 mm, Effective pixels: 16.25 megapixels, Cooling system - Peltier Device, F-Mount Adapter

Epi-Fluorescence Attachment

Precentered Fiber Illuminator Intensilight, HG Lamp, 50w Adapter

Filter Block – DAPI (EX340-380, DM400, BA435-485), GFP –L (EX480/40, DM505, BA510) and FITC (EX540/25, DM565, BA605/55)

With Spare Lamp

INVERTED MICROSCOPE WITH 12V-100W ILLUMINATION

Ports	Two (Minimum) Eyepiece 100%, Eyepiece 20%/left 80% Eyepiece 100%, left* 100% Manual port switching *Changeable to right as option.
Focusing	Via nosepiece up/down movement Stroke (manual): up 8mm, down 3mm Coarse stroke: 5.0mm/rotation Fine stroke: 0.1mm/rotation Minimum fine reading: 1 μ m
Eyepiece tube body	Should be able to have a Standard Binocular Eyepiece Tube or a Ergonomic Eyepiece Tube with Sidentopf Tube Design.
Eyepiece lens	CFI 10x with Field of View 22mm or more with diopter adjustment.
Illumination pillar	100 Watt Halogen Lamp based Illuminator system with intensity control.
Condenser	ELWD condenser, LWD condenser, HMC condenser, ELWD-S condenser, High NA Dry & Oil condensers, Darkfield condenser, CLWD condenser
Nosepiece	Motorized Sextuple DIC Nosepiece, Sextuple Nosepiece, Sextuple DIC Nosepiece,
Objectives	CFI60 objectives
Stage	Glide Stage compatible to be used for C-Elegans Manual Type Sextuple fluorescence filter cube rotating turret, Filter cubes with noise terminator mechanism,
Epi-fluorescence attachment	Centerable field and aperture diaphragms, ND4/ND8 filters Option: Motorized sextuple fluorescence filter cube rotating turret, Motorized excitation filter wheel, Motorized barrier filter wheel Contrast control: Senarmont method (by rotating polarizer)
Nomarski DIC system	Objective side prism: for individual objectives (installed in nosepiece) Condenser side prism: LWD N1/N2/NR (Dry), HNA N2/NR (Dry/Oil) types
Voltage	The system should work @ 230V AC 50Hz.

Ref: BT/SMAH/019/2014

Dt. 03.12.14

Due Dt.18.12.14

HEAD DEPT.OF BIOTECHNOLOGY