

Call for quotations: PI. Ref. No. SKB/15-16/MS-CAM/March

Due Date: 31/03/2016, 5 pm

Specifications for Microscopy system:

A. General description:

The Microscope body should be equipped with IR Corrected infinity space, stratum structure/two tier space at the fluorescence path for laser introduction or two color simultaneous detection.

The system should be capable of providing 100% light to both sides and to eye piece through 100% prism.

Compatibility between camera and microscope must be guaranteed through proper adapters, to be supplied along with the shipment.

Future automation of the microscope (objective Z-travel, filter cubes, illumination, and light-path) must be permissible.

B. System details:

Transmitted Light System	12V,100W pre-centered Halogen Illumination with dedicated onboard intensity control
Frame	Port for fluorescent illumination, Tilttable, with 4 or more filter-holders Fine adjustments of 0.01 micron in Z-direction or better Focus-limits and knob-tension adjustment Light intensity and mirror-indicator Coded nose-piece with 6-position turret and DIC slotter Observation-tube (Binocular), F.N. 22 or better Focusable 10X eyepieces, with adjustable mode of operation, FOV of 22 or better
Condensor	Working distance of 70 mm and higher, N.A. 0.5 and above, with built-in turret for phase-elements and PH rings for all objectives offered.
Stage	XY Mechanical stage with holders for : 35 mm dish, glass-slide, and 96 well plate. Must include a mechanism to fix the sample on stage to avoid shake. Travel allowed must cover an entire 96-well plate, using right-handed handle with X-Y knobs.

Objectives	<p>Plan Achromat 10X Phase Objectives (NA 0.25 or better, WD 10 or better)</p> <p>Long-working distance Achromat Phase Contrast 20X. NA 0.4 or better, WD 3 mm or better</p> <p>UV-IR corrected 100X Plan-apochromatic oil immersion objective with NA 1.3 or better</p> <p>(Optional quote as accessory): Long-working distance 40X phase objective with correction collar.</p>
Fluorescence Module	<p>6 or more position filter cube turret with capability to insert narrow band pass emission filters.</p> <p>Quote must include 4 empty filter cubes.</p>
Fluorescence Light Source	<p>100 W mercury arc lamp with a minimum of 300 Hrs of life time. No liquid-light to be included. ND filters (ND25 and ND06), Power-supply and cables</p>
Camera (To be quoted as an accessory)	<p>Monochrome</p> <p>6.45/6.45 pixel size or higher with Peltier cooling (-10 deg. C. stabilized, below ambience, or better).</p> <p>QE of 75% or better @ 600 nm.</p> <p>Dark noise 0.001 e/p/s at -12 deg. C. regulated.</p> <p>Full-well capacity: 16000 e and 24000 e on-chip integration.</p> <p>With IR barrier upto 700 nm.</p> <p>ROI: adjustable.</p> <p>Binning option</p> <p>Frame rate: 25 fps or better at full resolution; 40 fps or better at 2 by 2 binning</p> <p>Dynamic Range: >2200 : 1 (>668 dB) at < 77 e readout noise;</p> <p>Control signals: TTL output for controlling of external shutters.</p> <p>Camera-control through unified software that allows future XYZ-stage-control, as well as camera control for time-lapse (in current configuration) and multi-position (future configuration).</p>

C. General Terms and Conditions:

1. The Quotations duly sealed (2-bid system, Technical and Financial) and super-scribed on the envelope with the reference No. and due date, should be addressed to the undersigned so as to reach on or before **31/3/2016, 5 pm**.
2. The Quotations should be valid for sixty days from the due date and the period of delivery required should also be clearly indicated.
3. If the item is under DGS&D Rate contract No. 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 (Please note that we are not Direct Demanding Officers). If so please send copy of the RC.
4. 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 expense.
5. The rate 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 Certificate will be issued at the time of final settlement of the bill.
6. Goods should be supplied carriage paid and insured.
7. Goods shall not be supplied without an official supply order.
8. 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.

Address for sending quotations:

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Regards

Dr. Saumendra K Bajpai