

DEPARTMENT OF MICROBIOLOGY
ALL INDIA INSTITUTE OF MEDICAL SCIENCES

Rate Enquiry No. 06 /Micro/2016-2017

Dated 27-01-2017

Quotations are invited for the supply of items mentioned below which are required for Microbiology Department AIIMS.

1. Shaker Incubator – 1 No.
2. Binocular Compound Microscope – 2 Nos.
3. LED Fluorescent Microscope – 1 No.

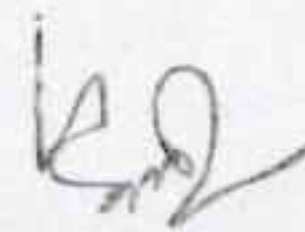
The quotations should be submitted in Department of Microbiology (in favour of Head of Department), Room No.2060 IIInd Floor, Teaching Block, AIIMS, New Delhi by 11-02-2017 upto 1.00 pm. The quotations will be opened on 13-02-2017 at 3.00 pm Room No.2093. All quotations should be typewriter or in ink. All over writing and erased entries will be deleted from the quotations. The quotation should be duly sealed in an envelope marked R.E.No. 06 /Micro/2016-2017.

Terms & Condition:

1. The quotation for each item should be submitted in a separate with the name of the item clearly written on top of the envelope.
2. The Rate Enquiry must quote for Five Years Comprehensive Warranty.
3. Authority letter from manufacturers/principal for supplying item.
4. Price reasonable certificate.
5. An undertaking that the firm has been blacklisted in the past by any Institution, Government/Private.
6. The names & contact numbers of AIIMS/Govt. Departments where the supplier/dealer has supplied the equipment (user list).
7. Information for electronic payment viz RTGS/NEFT – Name of the beneficiary, Account number of the beneficiary, IFSC code of the bank/branch.
8. If applicable, VAT/sales tax or any other kind of tax must be mentioned separately against each item.
9. The firm must be able to install the equipment on the site, free of cost.
10. The firm must supply the items within the date mentioned on the supply order copy.



Dr. Lalit Dar
Professor of Microbiology
Officer Incharge Store



Dr. Gita Satpathy
Prof. & Head
Department of Microbiology

Shaker incubator

1. Should be provided with Temperature control range from 5°C above ambient to 60°C control accuracy $\pm 0.1^\circ\text{C}$.
2. Should be able to maintain 37°C or below during summer months when ambient temperature is 40-45°C.
3. Should be provided with shaking Speed: 20-800 rpm with control accuracy of $\pm 2-4\text{rpm}$.
4. Should be provided with timer of up to 99.9 Hrs.
5. Should be provided with approximate dimensions (WxDxH): 20-30 x 20-30 x 10-25cm and weight of the basic device $\leq 10-15\text{ Kg}$.
6. Should be provided with Power supply: 100-240V, 50-60 Hz.
7. Should be provided with Large easy to read display screen clearly indicates speed, running time, alarm condition and temperature character and Display is clearly visible from all angles across the room, and in the dark.
8. Should be provided with Safety Features i.e. there should be over temperature protection. The system should have facility to calibrate the temperature and speed via keypad.
9. Should be provided with electronic and mechanical components should be enclosed, protected from accidental spills.
10. Should be provided with automatic restart after power interruption with non volatile memory.
11. Should be provided with It should come with Universal Platform having capacity to holds assortment of various size of flask sizes upto 2-5 Ltrs and test tube racks. System should be supplied with 250 ml clamps (5 Nos.), 500 ml clamps (05 Nos.), 1000 ml (01-03 Nos.) and 2000 ml (01-03Nos)
12. Should be provided with comprehensive warranty of 5 years.
13. Should be ISO 9001 and 14001 certified. The instrument should be an original make from the company and not assembled locally.

Certified that specifications are broad based, general in respect to the requirement and not suit to any particular firm / brand.

Refused by
Tanelogas

Checked by

Refused by
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Accepted

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Sahayak Acharya/Assistant Professor
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Technical Specifications of Binocular Microscopes

| | |
|------------------------|--|
| Stand | Ergonomically designed rugged stand for long time comfortable usage |
| Optical System | Infinity and Color corrected Optical System |
| Illumination | Built-in transmitted illumination system with Koehler system. LED illumination with LED of 3-5 W with a life of minimum 50,000 hrs. |
| Focusing | Stage movement in Z axis should be 15 mm or more stroke in coarse movement and 2 to 2.5 μ m stroke in fine focus graduation |
| Stage | Mechanical stage should have coaxial X and Y movement with the size 140 to 200 mm x 130 to 140 mm Traveling range: 75mm (X) x 30mm (Y) with good quality ball-bearing specimen holder |
| Observation Head | 30° inclined ergonomic Binocular tube, siedentopf design, suitable for eyepieces upto field of view 20mm. Inter Pupillary Distance range 48-75 mm and eyepiece tubes can be swiveled either way for easy viewing angle of the operator. Diopter adjustment in both eyepieces ± 5 . |
| Condenser | Abbe type with iris diaphragm N.A.: 1.25 |
| Objective Lens | Fully Plan Achromatic objectives (anti-fungus) 4 X N.A.: 0.10 10 X N.A.: 0.25 40 X N.A.: 0.65 100 X Oil immersed N.A.: 1.25 |
| Eye Pieces | 10 X anti-fungus / 20 mm Field of View (F.O.V.) with 30 mm tube size. |
| Nose Piece | Quadruple inward-facing revolving nosepiece |
| Comprehensive warranty | 5 years |

The Microscope should have the following:

- Safety measure so as to avoid the accidental contact of the objective and slide to prevent the damage to the sample and objective both
- CE, ISO and EC/ UL/FDA (CDRH) certification
- SMPS circuit for constant voltage supply
- There should be a provision for upgrading microscope to fluorescence (Preferably LED) type in future manufactured by the same company (please attach catalogue).
- There should be a provision for demonstration before final approval of microscope.
- The company should have a service track record for atleast 10 years and provide list of users and performance certification (ten years) of the microscope in atleast five institutes of national importance
- Microscope should be fully manufactured by the principal company

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Prepared by

Approved by

Alabhi

Dr. Bimal K. Datta

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Dr. GITA SETHI

Prof. & Head

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TECHNICAL SPECIFICATION
LED FLUORESCENT MICROSCOPE

1. The basic instrument should have a binocular head.
2. It should have wide field eyepieces of at least 10x/20 mm.
3. It should have diopter adjustment on both eyepieces.
4. It should have reversed quintuple revolving / quadruple nose piece on ball-bearings.
5. It should have high quality Achromatic Objective lenses of 4x, 10x, 40x, 100x oil immersion infinity corrected objectives.
6. The basic instrument should have fluorescence objective FL 10x and 40 x both
7. All optical parts should be anti-fungus treated.
8. It should have double slide Holder.
9. It should have at least 140x 135 mm stage.
10. It should have height adjustable condenser with iris diaphragm and filter holder.

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2056, TB LAB, DEPARTMENT OF MICROBIOLOGY,
ALL INDIA INSTITUTE OF MEDICAL SCIENCES, NEW DELHI - 29
TECHNICAL SPECIFICATION LED FLUORESCENT MICROSCOPE continued.....

11. It should have at least diascopic LED illumination with adjustable intensity with internal power supply of at least 80- 250 V (CE) / Reflected fluorescence Unit power unit 110 V / 220 V
12. It should have at least Reflected 450 nm LED epi- illumination attachment with a single cube with filters for Auramine-O fluorochrome.
13. It should be delivered with power cord and dust cover.
14. The apparatus should confirm to IS:4381-1967 (reaffirmed 2007) with latest amendments or equivalent national or international standards for general requirements for optical components and optical instruments, marking and packing.
15. Voltage regulator of appropriate rating to be included to cope with 160- 260 V.
16. The system should have ISO / CE under laboratory (UL), FDA certification.
17. The complete unit should be provided with 5 years comprehensive warranty including hardware, software and spares.

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