

**CENTRAL ANIMAL FACILITY
ALL INDIA INSTITUTE OAF MEDICAL SCIENCES
ANSARI NAGAR, NEW DELHI-110029**

Date: February 07, 2020

RE No 03/Upright Trinocular Light Microscope with digital imaging capability/CAF/2019-20

Sealed quotations are invited by post/bear from the reputed firms/manufacturers for the supply of the Upright Trinocular Light Microscope with digital imaging capability following/detailed overleaf items subjected to following terms & conditions:

- 1) Quotations should be reach this office on or before 27/02/2020 at 12.00 Noon and they will be opened Technical Bid & Price Bid on 27/02/2020 at 03.00 P.M & 29/02/2020 at 11.00 A.M in the seminar room of central Animal Facility, New Delhi in form of the bidders present there. All the quotations received before the mentioned closing date and time will be entertained.
- 2) The bidder should care that the rates and amount are written in such a way that interpolation is not possible. Alteration/over writing, unless legibly attested by the bidder shall not be considered.
- 3) The make of the article(s) offered should invariably be quoted. Material confirming to the specifications should be quoted. The compliance report of specification should invariably be provided indicating the fulfillment of each parameter of the specifications.
- 4) Rates must be valid for 12 months from the date of opening of quotations.
- 5) Delivery prospects with definite period of delivery at destination must be indicated.
- 6) Each quotation should be accompanied with an EMD amounting to 15,000/- by way of DD/Pay order drawn in favor of The Director, AIIMS payable at New Delhi Cash/cheque will not be accepted. EMD deposited against other tender/quotations can't be considered for this rate enquiry. No interest is payable on EMD.
- 7) Quotations should be submitted in two bid systems containing two parts as detailed below
Part-I Techno commercial bid in one sealed cover
Part-II Price bid/financial in one sealed cover. Both the sealed envelopes should then be put in one outer cover and superscripted as Rate Enquiry No 03/Upright Trinocular Light Microscope with digital imaging capability/CAF/2019-20. Please note that prices should not be indicated in techno commercial bid. The prequalification documents including EMD should invariable be accompanied with the Techno commercial bid.
- 8) Quotations submitted without following two bid systems procedure as mentioned above will be summarily rejected.

9) Technical bid will contain the following documents:

- a) SMPS circuit for constant voltage supply
- b) CE, ISO and EC (European conformity)/ UL/FDA (CDRH) certification
- c) Provision for Upgradation to fluorescence in future (provide information in option(s) to fluorescence Upgradation with catalogue, should have high performance LED module for standard epifluorescence, at least three band-pass fluorescent filters, quote the price separately, should be of same manufacturer)
- d) Equipment will be selected only after proper demonstration.
- e) Technical Features/Specifications in the quotation should be substantiated with proper Principal Company Catalogue that should be available in print form
- f) Provide list of users and performance certification (performance for about five years) of the microscope in at least Five institutes of national importance
- g) Service track record for at least Five years
- h) Microscope should be fully manufactured by the principal company
- i) Provision for biannual preventive maintenance
- j) Should be provided with 2 yrs guarantee/ warranty with 2 yrs free AMC/CMC as per rules of AIIMS New Delhi
- k) Copy of latest sales tax/Service Tax registration Certificate/GST.
- l) Earnest Money (DD/Pay order).No cash will be accepted against EMD
- m) Affidavit that the firm has not been black listed in the past by any hospital/govt. organization.
- n) Affidavit/undertaking that the firm is not supplying the same item at the lowest rate quoted in the tender/RE to any Govt. Organization or any other Institute (fall clause).
- o) The supplying company should have had same or similar installation in at least 03 research laboratories throughout India.
- p) Details of name of beneficiary, Accounts no of beneficiary, IFCS code of the bank & branch.
- q) If you are not fulfilling the requirement for guarantee/warranty otherwise firm has been counted in the black listed.

10) Price bid:

- a) Rates must be quoted for one year Comprehensive Warranty/Guarantee from the date of satisfactory completion.
- b) Sales Tax/ Service Tax/ GST and other statutory levies should be shown separately and should not be included in the basic price otherwise it will not be considered.

Note: Quotations submitted with incomplete documents will be summarily rejected. The check list may be furnished properly and page no. may be mentioned against each serial number.

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Upright trinocular light microscope with digital imaging capability

Specification: -

Quantity Required
One (01)

Optical System

1. Infinity and color corrected optical system

Illumination

1. Built in scientific grade natural white cool LED illumination
2. Should be able to provide uniform illumination, to get proper image quality in centre and periphery of the field
3. LED: Min. 5W white LED with a lifespan of minimum 50,000 hrs.
4. Pre-centered lamp mount.

Focusing

1. Course movement 35 mm or more with fine focus gradation min 0.02 mm per rotation with refocusing function
2. Coaxial focusing knob (allowing user to operate the course and fine adjustment from left and right side) with low drive handle

Nosepiece

1. Quintuple revolving nosepiece tilted backwards (inwards) with precision click stops for easy rotation and easy access to stage and protection to objectives

Stage

1. Rectangular mechanical stage to hold two slides (Preferably) with anti-corrosive coating (long life). Scratch proof stage with a travelling range of at least 76mm(X) 50 mm(Y). The X-Y control on right hand side and specimen holder with spring clips on the left side protective mechanisms for smooth operation. Mechanisms or equivalent to reduce mechanical depreciation

Observation tube

1. Eye piece 10/15X, ergonomically designed (inclined 30°) Trinocular tube (Provision for attachment of camera through c-mount)
2. Interpupillary distance adjustment range 45 -75mm,
3. Eye point adjustment 380mm- 420mm,
4. Side top design suitable for min. F.O.V 20 mm with dioptr adjustment facility on both eyepieces,

Condenser

1. Abbe Type with aperture iris diaphragm NA.1.25

Objectives

1. Long working distance Plan Achromatic objectives with at least:
 - a. Achromatic 4x, N.A 0.10, or better
 - b. Plan-Achromatic 10x, N.A. 0.25, or better (with Phase)

- c. Plan-Achromatic 40x, N.A. 0.65, or better (with Phase)
 - d. Plan-Achromatic 100x oil, N.A. 1.35, (spring loaded) or better (with Phase)
2. They should have proper antifungal/mold coating
3. The Microscope should also have safety measure (spring-loaded stage AND/OR spring-loaded objectives for 40X and 100X) to avoid accidental contact of objective and slide to prevent the damage to the sample and objective both
4. **CCD Camera System:**
 - a. High-resolution, Peltier-Cooled Color CCD Camera chip
 - b. with at least 9-megapixel resolution, 12-bit color reproduction
 - c. Pixel size at least 6 μm square
 - d. Sensitivity: ISO 60-1000
 - e. Live display: 5-10 FPS (at full resolution of 3K X 3K) – 25 FPS (at 512 X 512)
 - f. The camera and software for operating it should be provided by the manufacturer of the microscope so that there is seamless integration of microscopy, image capture and simultaneous/subsequent analysis.
5. **Image Analysis Software:** Compatible software for image analysis, overlaying multiple image, automated multi-wavelength capturing, z-stack acquisition, side by side image comparison, movie playback, snap/movie acquisition, and time lapse at specified interval, interactive measurement function, object counting, extended depth of focus functionality. Four-dimensional image acquisition, Auto-measurement, Auto-counting, Multi-dimensional image display, Multichannel image capturing, Report Generator facility.
 - a. Free Upgrades should be provided during the period of AMC/CMC (as per AIIMS rules) with compatibility upgrades of the operating system and if necessary, hardware in which it is installed.
 - b. Microscope should be provided with one connected software and offline licenses.
6. **Work Station:** Latest Branded computer with Intel i7 or better, 8GB RAM, 1TB HDD, DVD RW, with latest windows operating software (with free upgrades provided during the period of AMC/CMC as per AIIMS rules and essential upgrades of hardware if the OS requires such upgrade), 1GB graphics card, LAN card, scroll mouse, multimedia keyboard, 21-24 inches TFT Color Monitor.
7. Microscope should be CE (Europe)/FDA/ISO 2018 certified.

(Dr. P.K. Yadav)
Sr. Veterinary Officer, CAF

(Dr. S.K. Maulik)
Professor-In-Charges, CAF

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The following documents are required against **RE No 03/Upright Trinocular Light Microscope with digital imaging capability/CAF/2019-20**

Check list

- | | |
|--|----------|
| a) SMPS circuit for constant voltage supply | :- ----- |
| b) CE, ISO and EC (European conformity)/ UL/FDA(CDRH) certification | :- ----- |
| c) Provision for Upgradation to fluorescence in future (provide Information in option(s) to fluorescence Upgradation with catalogue, should have high performance LED module for standard epifluorescence, at least three band-pass fluorescent filters, quote the price separately, should be of same manufacturer) | :- ----- |
| d) Equipment will be selected only after proper demonstration. | :- ----- |
| e) Technical Features/Specifications in the quotation should be substantiated with proper Principal Company Catalogue that should be available in print form. | :- ----- |
| f) Provide list of users and performance certification (performance for about five years) of the microscope in at least Five institutes of national importance. | :- ----- |
| g) Service track record for at least Five years | :- ----- |
| h) Microscope should be fully manufactured by the principal company | :- ----- |
| i) Provision for biannual preventive maintenance | :- ----- |
| j) Should be provided with 2 yrs guarantee/ warranty with 2 yrs free AMC/CMC as per rules of AIIMS New Delhi. | :- ----- |
| k) Copy of latest sales tax/Service Tax registration Certificate/GST. | :- ----- |
| l) Earnest Money (DD/Pay order).No cash will be accepted against EMD | :- ----- |
| m) Affidavit that the firm has not been black listed in the past by any hospital/govt. organization. | :- ----- |
| n) Affidavit/undertaking that the firm is not supplying the same item at the lowest rate quoted in the tender/RE to any Govt. Organization or any other Institute (fall clause). | :- ----- |
| o) The supplying company should have had same or similar installation in at least 03 research laboratories throughout India. | :- ----- |
| p) Details of name of beneficiary, Accounts no of beneficiary, IFCS code of the bank & branch. | :- ----- |

If you are not fulfilling the requirement for guarantee/warranty otherwise firm has been counted in the black listed.

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