ALL INDIA INSTITUTE OF MEDICAL SCIENCES
ANSARI NAGAR, NEW DELHI-29.
STORES SECTION (DO)

Ref. No. 46/SO(DO)/Anat/PAC/2017-18/FSC **Dated-06/03/2018**

Sub:- Purchase of "Stereological Analytical Workstation with Image Analysis Facility" for the Department of **Anatomy**, (AIIMS), New Delhi-110029, on proprietary basis **Inviting comments thereon.**

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The Institute is in the process to purchase **Stereological Analytical Workstation with Image Analysis Facility** for the department of **Anatomy**, (AIIMS), New Delhi from **M/s Olympus Corporation, Tokyo Japan, and M/s. MBF Bioscience, USA through M/s.** DSS Imagetech Pvt. Ltd., New Delhi. The PAC Certifications by **M/s. Olympus Corporation, Tokyo Japan, and M/s. MBF Bioscience, USA** as well as the user department are attached.

The above documents are being uploaded for open information to submit objections, comments, if any, from any manufacturer regarding proprietary nature of the equipment/item within 15 day from the date of issue/uploading of the notification giving reference No. **46/SO(DO)/Anat/PAC/2017-18/FSC.** The comments should be received in office of Stores Officer (FSC), Store Section (DO), Animal House Building, Near Biotechnology Building at AIIMS on or before **26/03/2018** upto **12.30 p.m.** failing which it will be presumed that any other vendor is having no comment to offer and case will be decided on merits.

8/3/18

STORES OFFICER (FSC)

Encl: Related documents enclosed.

Specifications for Stereological Analysis Workstation with Image Analysis Facility

Approx cost Rs. 70 Lakhs

1. Stereology Analysis System:
    a. User friendly, design based stereological estimators for volume; area; cell- populations, size; fiber length, with workflow allowing systematic random sampling for easy use.
    b. For neurons- neuron tracing, dendritic branching, spine population, Scholl analysis
    c. Strict sampling protocols for bias-free estimates of volume, length and event counts
    d. Graphic overlay systems that facilitate rapid unbiased sampling of the sections
    e. In-built data management system, statistical analysis and their documentation
    f. Flexible hardware to support all research microscopes, confocal microscope and tomographic images
    g. Should allow optical z-sectioning and automated image stack acquisition for offline analysis
    h. Should be able to perform 3-D reconstruction from the outlines of sections
    i. Should have capability to stitching images together in raster-scan imaging at all magnifications
    j. Automatic corrections for Snell's law of Optical refraction, automatic parfocal and parcentric correction
    k. Image processing and morphometric analysis tools
    l. Capable of saving images in multiple formats
    m. Automatic and manual control of stereology hardware through computer
    n. Automatic control of microscope stage movement in x, y and z axes.
2. Trinocular Research Microscope:
    a. Advanced, motorized, upright, trinocular research microscope (three way trinocular tube – 100:0, 80:20, 0:100) with simultaneous viewing and imaging capability
    b. Eye piece- widefield, paired, inclined at 30° with field of view 23 mm or better with diopter correction on both eyepieces.
    c. Transmitted and reflected light illumination with 100W halogen/LED and 120W metal halide/Mercury with long lifetime of ~2000 hours or better, with spares. Should be in-built with ND and light balancing filters
    d. **Optional:** Microscope should have automated and motorized DIC having automated DIC components like objective prism, condenser prism, analyzer and polarizer for automatic swing in/out of DIC components from light path on selection of DIC w.r.t. objective lens.
    e. High resolution Plan Apochromat objectives corrected for both UV & visible lines (for 20X, 40X, 60X and 100X). 2X, 4X (interchangeable/optional), 10X, 20X (NA 0.75 or better), 40X air (NA 0.9 or better); 60 X oil (NA 1.3 or better) and 100X oil (NA min. of 1.4 or better) (**Optional**-along with DIC accessories for all objectives). The nosepiece should be motorized
    f. Objective lens should be plan apochromat with coating for correcting spherical and chromatic aberration
    g. Fluorescence band-pass filters for DAPI/CFP, GFP /AF488/FITC, YFP/AF 514, Mito-tracker RED/AF 568 (**Optional**).
    h. Swing out condenser lens [NA 0.9/ W.D.2 mm (1.25 X - 100 X)]
    i. High resolution bright field condenser system [Dry: NA0.9/ W.D.1.5 mm, Oil: NA1.4/ W.D.0.63 mm (1.25 X - 100 X)]
    j. Motorized stage movement 76mm X 52mm or better
3. Motorized XYZ stage
    a. Complete XY stage control system including joystick, suitable drive-motor and/or encoder
    b. Motorized mechanical stage should be ceramic coated, right hand controlled, fitted with double slide holder
    c. Z-stage encoder, also connected to joystick control by knob for z-focusing
    d. The interface between the encoder and the stage should be RS-232/USB3 or better
4. Camera:
    a. Color digital camera (6 Mega Pixel resolution or better) CCD camera for fast image acquisition of 30 fps at full resolution or better, pixel size 6.5µm x 6.5µm. Camera should be controlled through stereological software.

डॉ. टोनी जॉर्ज जेकब
Dr. TONY GEORGE JACOB, MD, Ph.D.
सहायक आचार्य/Assistant Professor
शरीर रचना विभाग/Dept. of Anatomy

5. Computer and Printer

   High Power Workstation with

   a. Windows 7/10 Professional (64 bit) operating system OR Mac based system
   b. Intel 10-Core Xeon E5-2650 V3, 4 GHz or better, 16 GByte RAM or better
   c. Graphics (NVIDIA 12GB high performance GPU/ATi Fire GL V5200 256 MB DH DVI or higher)
   d. 1 TB SATA HDD
   e. Slim Super Multi DVD Writer
   f. Ethernet Controller, 2 x USB 2.0, 8 x USB 3.0, IEEE 1394 Firewire B,
   g. Keyboard and integrated mouse with controls of stereological software
   h. 21" LED HD Monitor, Resolution of 4K (or better).
   i. The system should come with a data storage unit capable to store 5 TB or more data.
   j. A suitable online UPS to support the complete system (not less than 2 KVA) with suitable online UPS for 60 min backup for the entire system.
   k. Color LASER printer (USB interface, 1200 dpi or better, built in Ethernet support)

6. General terms:

   a. All components- microscope, computer, camera, stereology hardware, XYZ encoders should be compatible with one another and the system should be fully integrated by the supplier
   b. Features in the quotations should be substantiated with proper Principal Company Catalogue.
   c. Should operate under a Quality Management System which complies with the requirements of ISO 9001:2008 for design, manufacture and services.
   d. Copies of all certifications e.g. Quality Standard certificate, Propriety Item/parts, Patent of parts/ technology, Principal company/Authorized Distributorship should be attached with the quotations.
   e. In-House Service Engineers from principal company/ or authorised agents should be available on one-day notice basis in case of emergency.
   f. Only Principal Companies or Authorized Distributors from Principal companies should quote. Quotations from non - authorized distributors will not be entertained.
   g. Compliance sheet should be attached along with the quotation. Compliant points should be highlighted in the company catalogue. Compliant points should be given (in the sheet) in order of the specifications' serial order.
   h. Penalty clause: In no case the instrument should remain in non-working condition for more than 7 days, beyond which a penalty of 2% of machine cost will be charged per day.
   i. Must include: A. User's list with telephone numbers and B. Copy of catalogue with clear picture
   j. Other terms and conditions as per AIIMS Guidelines

डॉ० टोनी जॉर्ज जेकब
Dr. TONY GEORGE JACOB, MD, Ph.D.
सहायक आचार्य/Assistant Professor
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OLYMPUS

Your Vision, Our Future

OLYMPUS CORPORATION
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Shinjuku Monolith, 3-1 Nishi-Shinjuku 2-chome, Shinjuku-ku,
Tokyo 163-0914 Japan
Technology Research Institutes
2951 Ishikawa-machi, Hachioji-shi, Tokyo 192-8507 Japan
2-3 Kuboyama-cho, Hachioji-shi, Tokya 192-8512 Japan

February 2, 2018

PROPRIETARY CERTIFICATE

To
The 'Director'
All India Institute of Medical Sciences
Ansari Nagar, New Delhi-29,
India.

Ref. Your Requirement for 'Stereological Analytical Workstation with Image Analysis Facility'

Dear Sir,

We, Olympus Corporation, Tokyo Japan who are proven and reputable manufacturers of Olympus Microscopes hereby certify that the Olympus Upright Research Microscope Model BX53F2 quoted by our sole authorized Distributors in India M/s DSS Imagetech Pvt. Ltd. New Delhi vide their P.I. No. DSS/DL/HS/17-18/0210-II dated 29.01.2018 is a Proprietary item of Olympus. Olympus Corporation is the sole manufacturer of this item with the following specifications.

Retrofitable Motorization: Olympus BX53F2 LED Microscope offers stepwise motorization, the Olympus modular motorization concept allows you to choose the automation level depending on your requirements. Olympus BX53 microscope motorization includes motorized 7 position nosepiece with DIC Slider for DIC observation, 8-Position motorized universal condenser for all type of microscopy observation technique and motorized 8 position mirror unit turret for fluorescence which is unique in the world for more options in fluorescence microscopy. All controlled by a convenient Hand Switch and by Olympus imaging software for motorized nosepiece movement, motorized condenser movement and observation method.

White LED with High Color Rendering: Olympus BX53F2 LED Microscope offers and utilizes a white LED with a luminosity equivalent to or better than a 100 W halogen lamp. The transmitted LED lamp has a life time of more than 50,000 hours which is highest in the world for this class of microscopes.

Consistent Brightness when Changing Magnifications: The BX53F2 Microscope has a unique light intensity manager which eliminates the step of adjusting lamp brightness when changing magnification. By maintaining uniform brightness at any magnification, users can achieve their observations quickly and with reduced eye strain

Certified further that no substitute make/model will serve the purpose and also that no other manufacturer can copy or produce these items in part or total for Olympus Upright Research Microscope Model BX53. We further certify that BX53F2 microscope is manufactured by us i.e. Olympus Corporation, Japan in our factory. This model is our proprietary product and manufactured by us only.

Sincerely yours,

For Olympus Corporation

Tadashi Igarashi
Manager
Asia Pacific Sales Marketing,
Scientific Solutions Asia Pacific Sales Marketing Dept

डॉ.टी.एस.रॉय/Dr. T.S. ROY, MD PhD
आचार्य एवं अध्यक्ष/Professor & Head
शरीर रचना विज्ञान विभाग/Dept. of Anatomy
अ.भा.आ.सं.,नई दिल्ली,भारत/AIIMS, New Delhi, India

MicroBrightField, Inc.

185 Allen Brook Lane, Suite 101, Williston, VT 05495 USA
info@mbfbioscience.com www.mbfbioscience.com
tel 802.288.9290 fax 802.288.9002

PROPRIETARY CERTIFICATE

To:
The 'Director'
All India Institute of Medical Sciences
Ansari Nagar, New Delhi-29,
India.

January 30th, 2018

Ref. Your Requirement for 'Stereological Analytical Workstation with Image Analysis Facility'

Dear Sir,

This is to certify that the MicroBrightField Stereo Investigator Software (along with accessories) quoted by our authorized distributors M/s DSS Imagetech Pvt Ltd vide their P.I. No. DSS/DL/HS/17-18/0210-I dated 29.01.2018 is an article of proprietary nature.

We further certify that Stereo Investigator software is manufactured by us i.e. M/s MBF Bioscience, USA. This software is our proprietary product and manufactured by us only. No company other than MBF Bioscience is manufacturing and supplying the same software with identical specifications.

Mark Barton
Director of Sales and Marketing
MBF Bioscience

डॉ.टी.एस.रॉय/Dr. T.S. ROY, MD PhD
आचार्य एवं अध्यक्ष/Professor & Head
शरीर रचना विज्ञान विभाग/Dept. of Anatomy
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ALL INDIA INSTITUTE OF MEDICAL SCIENCES
ANSARI NAGAR, NEW DELHI-110029

PROPRIETORY/SPECIFIC BRAND GOODS CERTIFICATE

01.	Item/Type/Model No. required along with specification	Stereological Workstation with Image analysis Facility
02.	Is the item a spare part attachment or accessory for an existing equipment	No
03.	Name of the manufactures/Supplier of the item proposed by the Indenter.	MicroBrightField, Inc. Williston,VT, USA and Olympus Corporation, Japan
04.	Are they sole manufactures/sold distributors of the item	Yes
05.	Is there any other item with similar/ equivalent specification available in the market to meet the job requirement envisaged. If the answer is yes, why the same can't be procured. Demanding officer should bring out comparative functional advantages/ cost effectiveness of the recommended item form these offered by other.	No.
06.	What were the efforts made to locate alternative source of supply of use other substitutes.	N/A
07.	Why open/limited tender can't be resorted to for locating alternative source.	Proprietary Item, No other source is available.
08.	Are the proprietary items certifying that the rates are reasonable or not.	Yes, (Letter enclosed) MicroBrightField, Inc. Williston,VT, USA and Olympus Corporation, Japan
09.	Any other justification for procuring item from single source.	There is no other source or company available. List of proprietary features attached searately in page no. 2.

Signature of Indenter
(Demanding Officer)

COUNTER SIGNED
(Head of the Department)

6/12/18

I certify that the item at Sr. No. 1 above is required to be procured on single tender basis as the source of is definitely known/the specified brand proposed was advantages in meeting our functional requirements cited tender system could be dispensed with as they would serve no useful purpose in this particular case.

As certified by the Department.