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CORRIGENDUM

With reference to E-tender published vide Tender ID No. 2019_DARE_474508_1 E- Tender for Fluorescence Microscope. The following amendment has been made:

1. The complete technical specification for Fluorescence Microscope is attached.
2. The last date for submission of bid is extended upto 12.07.2019 and Technical bids will be opened on 15.07.2019.
3. All other terms & conditions will remain unchanged.


(Avdhesh Kumar)
Asstt. Admn. Officer(P)

Specification for Fluorescence Microscope

ITEM	SPECIFICATION
Microscope stand	Fully Motorized Upright Microscope stand with Apochromatically corrected Fluorescence beam path, Integrated Light Intensity manager for Bright field Applications and dedicated inbuilt TFT/LCD display for convenient operation
Motorized focus drive	Inbuilt Motorized Z focus drive with a minimum step resolution of 25 nm or better, preferably with better reproducibility
Motorized Objective Nose piece	6 Position Motorized Objective Nose piece or better / Preferably with Faster Movement
Condenser	Aplanatic Achromatic condenser with N.A. 0.8 or better.
Stage	Mechanical Stage with Specimen holder, travel range of 75x50
Eye Piece	Focusable 10X eyepieces with FOV 23 or better
Transmitted Illumination	100W Halogen light or LED light illumination source with fully Motorized Control of transmitted Illumination
Light Attenuators	Motorized ND filters turret of 6 position or Better for Intensity regulation
Shutter	Motorized Shutter for Multi dimensional Imaging in Bright Field
Objectives	High N.A, High light transmission efficient Semi PlanApochromat/ fluorite Objectives 10X- Semi PlanApochromat objective N.A. 0.3 40X- Semi PlanApochromat objective N.A. 0.75 63X Oil- Semi PlanApochromat objective N.A. 1.25 100X Oil- Semi PlanApochromat objective N.A. 1.3
Fluorescence Attachments Reflected light Illumination	Fully Motorized Fluorescence illumination and operation Self aligned/Pre centered 100 -130 W Mercury Illumination with motorized Intensity regulator for Fluorescence Applications
Reflector Turret for Fluorescence Filters	Motorized 6 position reflector turret or better
Filters	DAPI, FITC & TRITC
Polarizing attachment	Analyzer and polarizer
Shutter	Motorized Shutter for Multi dimensional Imaging

Camera

High resolution, Monochrome scientific grade, Peltier cooled
CCD camera for fluorescence Imaging
Resolution: 2.8 Mega Pixel or better
Pixel Size: 4.54 μm or better
Live frame rate: 35 fps or better @ full resolution
Dynamic range > 1: 2500 or better
Digitization: 14 Bit or better
Interface: USB 3.0
Quantum Effectiveness: 70% or better

Software

System Control

Automatic and interactive Microscope control

Image Acquisition

Image capture
Movie Acquisition
Automatic Multi channel Image Acquisition
ROI Imaging

Image Processing

Basic adjustment of Brightness, contrast and gamma
Adjustment of colour in BF images
Correction of bleaching effect in Z stack images
Pixel shift correction
Image smoothening basic
Image sharpening basic

Image Analysis

Interactive and basic measurement such as Length, Angle,
diameter, Area, Perimeter
Gray value measurement along a line
Statistical Analysis and evaluation of Data

Image Documentation

Creation of User defined reports

Image Viewing

Orthogonal View of Z stack Images
Simultaneous Image observation for comparison

Utilities

Provision of retaining Acquisition Parameters

Computer Workstation

Compatible latest branded computer with at least i7, 16GB Ram, 2 TB
HDD, Xeon/ latest high speed processor, at least 24" TFT screen with
suitable color laser printer. 2KV UPS.