

(राष्ट्रीय पशु जैव प्रोद्योगिकी संस्थान)

National Institute of Animal Biotechnology

Corrigendum -- Change of Date & Specifications

Please refer NIAB Tender Details as follows.

Tender ID : 2018_DBTEC_298742_1

Tender Reference Number : NIAB/SP/2017-18/68

Tender Title : Inverted Fluorescence Microscope

The following changes may please be noted before submission of bids with respect to the tender details mentioned above.

In place of old dates mentioned in Tender , please consider following dates.

Document Download End Date :- in place of Existing Old date --- Read As :- 23/02/2018

Bid Submission End date : in place of Existing Old date --- Read As :- 23/02/2018

Bid Opening Date in place of Existing Old date --- Read As :- 24/02/2018

Revised /New changes in specifications

The specification mentioned below should be treated as revised specification after pre bid meeting and bid must be submitted accordingly. This is to be read as Technical Specification , CHAPTER-6 OF NIT.

Inverted Fluorescence Microscope , Qty- 01 No

1	Main Frame	Fully Motorized Inverted Microscope stand with fully Apochromatically corrected Fluorescence beam path, Automatic/Integrated Light Intensity control for Bright field Applications and dedicated TFT/LCD display for convenient operation of all motorized components. Should have both left and right ports enabled for camera attachment with motorized switching.
2	Focus Drive	Inbuilt Motorized Z focus drive with a minimum step resolution of 10 nm or better, preferably with better reproducibility
3	Objective Nose piece	6 Position Motorized Objective DIC Nose piece or better / Preferably with Faster Movement
4	Condenser	Motorized Universal Condenser with a N.A of 0.52 or better for Integrated Modulation Contrast, Phase Contrast, DIC, Bright Field, and Fluorescence with 6 or better positions
5	XY Scanning Stage	Motorized Stage, with universal sample holder for slides and Petri-dish and multiwell plate holder.
6	Eye Piece	Focusable 10X eyepieces with FOV 21 or better
7	Transmitted Illumination	100W or better Halogen light source with fully Motorized Control of transmitted Illumination
8	Shutter	Motorized Shutter for Multi dimensional Imaging
9	Objectives	10X (Phase objective N.A. 0.25 or better) 20X (Phase objective N.A. 0.4 or better with correction collar) OR 20X (Plan Apochromat objective N.A. 0.75 or better) 40X (Phase objective N.A. 0.65 or better) 60X (Plan Apochromat DIC objective N.A. 1.4 Oil or better) 100X (Plan Apochromat DIC objective N.A. 1.4 Oil or better)
10	Fluorescence Attachments	Fully Motorized Fluorescence illumination and operation
11	Reflected light Illumination	120W Metal Halide/Mercury or better Illumination with motorized Intensity regulator for Fluorescence Applications
12	DIC Attachments	DIC components (Sliders and prism modules) for 20X/0.8, 4X0/0.75 and 60X/1.4
13	Reflector Turret for Fluorescence Filters	Motorized 6 position reflector turret or better. Band pass filter sets for DAPI, FITC/GFP, RFP/TRITC and CY5
14	Camera	High Performance microscopy Peltier cooled, high sensitivity Monochrome camera incl. driver software, USB 3.0 PCIe x1 interface, dual USB 3.0/USB 2.0 cable 3 m and BK7 protection glass (coated)
		2.8 Mega Pixels or better
		Chip size: 12 mm x 10 mm, equivalent to 2/3" (11 mm diagonal) Spectral range: with protection glass app. 400 nm to 1000 nm Max. Full Well Capacity: Approx. 15,000 e
		Frame rates : 38 fps or better at full frame and up to 90 fps or better in binning mode

		I/O Control signals: galvanic isolated I/O signals for exposure time, readout time, trigger ready, (i.e. for controlling external mechanical shutters, one trigger input for exposure control, 5V auxiliary voltage, GND)
15	Module for Optical Sectioning	Structured Illumination through grids with Automatic Grid Change Technology for optical sectioning preferably with higher light transmission efficiency. A special grid illumination device to be incorporated in the FL illumination optics of the microscope with easy switchover facility between normal FL illumination and grid illumination (for optical sectioning).
		Motorized and automatic grid focusing and super imposition of the same into the image plane for different fluorescence channels through accurate and calibrated scanning mechanism should be possible.
		Automatic multidimensional acquisition of optical sections. Seamlessly integrated hardware and software from the same manufacturer for better compatibility. Objective specific selection of different Grid frequencies to match the numerical aperture of the objective and wavelength of fluorescence for multichannel imaging should be automatic.
16	Software	Automatic and interactive Microscope control
17	Image Acquisition	Should be able to image capture, movie acquisition, fast acquisition, Automatic Multi channel Image acquisition, ROI imaging, Z stack acquisition, time lapse and should have provision for wide-field acquisition, optical sectioning and deconvolution with optical sectioning. Retaining of acquisition parameters for re-use should be possible.
18	Image Processing	Basic adjustment of brightness, contrast and gamma; adjustment of color in BF images; correction of bleaching effect in Z stack images; pixel shift correction;
19	Image Analysis & Documentation	Interactive and basic measurement such as Length, Angle, diameter, Area, Perimeter Gray value measurement along a line / Intensity measurement. Statistical analysis and evaluation of Data. Creation of User defined reports. Visualizing 3D image stacks, helpful for display of multi dimensional image stacks as 3D volume models and processing of up to 8 channels and Time series (4D) rendering. Orthogonal View of Z stack Images; simultaneous image observation for comparison of up to 8 images
20	COMPUTER	A suitable Branded High End , Latest configuration Computer System , Qty-01 should be provided along with the system. This cost should be included in main requirement as per tender.
21	UPS	Suitable, good quality UPS, Qty -01 should be provided along with the system. This cost should be included in main requirement as per tender.
22	Number of installations	Number of installations of offered model in DBT/CSIR/ICMR institutes and other reputed organizations. PO details, End user contact , performance certificate details should be submitted along with Bid.

Rest of the tender conditions remains same.

Manager (S&P)

Date:- 10/02/2018