



**DEPARTMENT OF BIOTECHNOLOGY
MAHARAJA SRIRAM CHANDRA BHANJA DEO UNIVERSITY
SRIRAM CHANDRA VIHAR, TAKATPUR, BARIPADA-757003, MAYURBHANJ, ODISHA**

No: MSCBU/BT/S&T-MRP/20

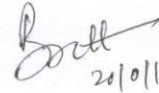
Date: 20.01.2022

TENDER NOTICE

Sealed quotations are invited from registered and established firms having valid GST, Income tax certificate, PAN Card, authorized dealership certificate for the supply of **Stereo Zoom Research Microscope with Camera of high resolution** along with Earnest Money Deposit (EMD) of Rs. 5000/- (Refundable) in the shape of DD in favour of Dr. Biswajit Rath, Associate Professor cum Principal Investigator, S&T Dept. Project Govt. of Odisha, MSCB University. The Details of the tender paper along with technical specification is available in the University website from **Dt.21.01.2023 to Dt.30.01.2023**. Tender paper will be opened on **Dt.31.01.2023**.

The University authority reserves all the right to accept/reject the quotation at any stage without assigning any reason thereof.

Sd/- Principal Investigator, S&T Dept. Project, Govt. of Odisha


20/01/2023

**Dr. Biswajit Rath
Asso. Prof. Cum Principal Investigator
S & T Dept. Project Govt. of Odisha**



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Details Specification

Stereozoom Microscope with Camera

Stereozoom Microscope:

1. Zoom Stereo Microscope Apochromat Body, Greenough optical system with zoom ratio 5:1 with zoom setting for 5 position (0.8x-1x-2x-3x-4x).
2. Wide field focusable eyepieces 10x with 23 mm field of view & inter-pupillary adjustment 55-75 mm. Diaptor adjustment +/- 5 on eyepieces.
3. Variable magnification range between 8x to 40x built in 1x apchromat objective & can be extended to higher magnification 200x by using additional auxiliary objectives .
4. Stand fitted with with broad base with black & white stage plate, easy - to - reach controls for focusing, zoom changer and illumination with 100% switch between right eyepath for 3D viewing,
5. Ergonomic Binocular tube inclined at 35° with built-in apochromatic objective & eyepieces that cover large area of sample 35.4mm to 4.6 mm. Greenough based optical system of resolution 450 lp/mm and working distance 110 mm.
6. Viewing angle 45° with port for 0.5x c-mount, adaptor for attaching camera, adjustable interocular distance 55-75mm.
7. Stand built-in illumination Intensity controlled LED incident vertical, transmitted illumination with working area 160x 195 mm & column for bright field and dark field.
8. Incident light application: Highly focusable high power cooled LED for vertical illumination as well as single channel LED spot illumination for reflected light application.
9. Long lasting cooled white LED light for transmitted & incident light application of life span apprx 25000 Hrs. & Color temperature 5600K for best contrast enhancement & color reproduction.
10. Optics are anti-fungus treated & certified upto three years from the principal (certificate enclosed) and dust cover.

B. Rath
20/01/2023

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(PTO)

Photography System:

1. High resolution color digital dedicated microscopy camera with imaging software.
2. Sensor: Micron MT9P031, 5.0 Megapixels, color, CMOS, USB 3.0 connector
Basic resolution: 2560 (H) x 1920 (V) = 5.0 Megapixels, Pixel size: 2.2 μm x 2.2 μm , Sensor size: 5.7 mm x 4.28 mm equivalent 1/2.5" Camera Adapter 0.5x for 1/2" sensor.
4. Imaging software compatibility preferable. Calibration of the system with reference to stage micrometer, Measurement on the captured images like linear distance, area, angle, perimeter, circle etc.
5. Annotations on the images. Camera control parameters through a easy to use window Exposure control, white balance & gain are few important parameters that are adjusted.
6. Auto exposure, auto white balance & area white balance for fast imaging, Gamma control, contrast & brightness adjustable parameters.

Terms and Conditions:

1. Three years free AMC from the date of installation.
2. Payment after delivery and installation at Department of Biotechnology, MSCB University.


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