

UNIVERSITY OF KERALA

INTERNATIONAL AND INTER UNIVERSITY CENTRE FOR NATURAL RESOURCES MANAGEMENT

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CO-ORDINATOR

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Date:06.03.2015

Quotations are invited for the purchasing of the following equipments/items from the manufactures/authorised suppliers

ITEM 1 : ZOOM STEREO TRINOCULAR (LED) MICROSCOPE

The interested firms may quote for the following accessories also:

- a) Auxiliary objective 2X
- b) Fluorescence Ring light
- c) Interlock dual light guide

SPECIFICATIONS FOR THE MICROSCOPE

Magnification : 0.67x to 4.5x

Zoom ratio : 6.7:1
Working distance : 110mm
Tube inclination angle : 45°

Interpupillary distance adjustment: Left / right interlocked adjustment range: 52 to 76mm

Video camera adaptability : C Mount (0.5x built in)

Zoom adjustment knob : Left / right single-shaft horizontal knob

Auxiliary objective : Mounting by screwing into the thread at the bottom of the

trame

Frame installation : Mounting diameter: 76mm Focusing adjustment : Focusing stroke: 120mm

Light source : Transmitted illumination : LED

Reflected illumination :LED Average LED life span : 6000hrs.

Input rating : 100-120 V/200-240V ~ 0.15 / 0.1A, 50/60 Hz

Eyepiece : WHSZ10x (FN 22)

Optical performance : Zoom magnification (0.67x, 1x, 2x, 3x, 4.5x) Using 2x Auxillary objective : Zoom magnification (1.34x, 2x, 4x, 6x, 9x)

Ring light guide : Ring light guide should provide bright and uniform image. Interlock dual light guide : Standard oblique semi-rigid fiber optics light guide. The light

Source should position on the rear side of the stand.

ITEM 2: CMOS 3.1MP C-MOUNT CAMERA FOR THE STEREO MICROSCOPE WITH MICROSCOPE ADAPTER.

SPECIFICATIONS

Resolution: 2048x1536, Frame rate: 12, Simple connectivity, Ease of use & installation, USB 2.0 plug-and-play, Real-time preview & capture with true colour imaging. Auto /manual exposure, auto/manual white balance, Portability with laptop / computer OS Windows 7/8, (32/64 bit).

ITEM 3: IMAGE ANALYSIS SOFTWARE FOR THE CAMERA (for measuring captured image, creating database and preparing reports).

SPECIFICATIONS

View : Zoom preview, Image information, Slide show etc. Image Processing : Edge enhancement, Arithmetic Image Functions

Special filters : For various image contrast

Morphometery : Round less, shape, orientation, Image addition, subtraction,

: Multiplication etc.

Count and classification : Identification of objects in an image, count them,

Obtain several features measurements, object Identification by user or automatically user designed

Classification of basis of size or intensity

Measurement : (a) Spherical calibration

: (b)Line measurements for Distance, Length, Width, Perimeter

Segmentation : Should measure area fraction and volume fraction. Should

Identify Phases within microstructure

Report :Should print out directly with original image,

Proceeded image and tabular result.

Also should be able to export to MS Office or Excel for further

modification

TERMS & CONDITION

Delivery : At Kariavattom Campus

Rate : Inclusive of tax

Payment : by demand draft or Cheque

Interested parties may submit their quotations on or before 4pm of 13th March 2014 to the following address:

Co-ordinator
International and Inter University Centre for Natural Resources Management
University of Kerala
Kariavattom campus
Trivandrum 695 581

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