

**Government of India
Bhabha Atomic Research Centre
Post Irradiation Examination Division, Radiological Laboratories
Trombay, Mumbai 400 085**

Tel: 25594047, Fax: 2550 5151

Ref: PIED/NHF/AB/2017/359A

17.05.2017

Sub: Fabrication and supply of digital color camera for Microscope

Dear Sir,

Please send us your lowest quotation for the fabrication and supply of digital color camera for Microscope as per the technical specification and the scope of work given below:

Scope of work:

1. Supply of digital color camera for microscope as per following specification **Qty. Five**

Exposure time	1 msec – 500 msec
Max. live image rate	Live image on computer screen up to 35 fps (1,024 × 768 pixels) Live image on HDMI screen up to 38 fps (1,280 × 760 pixels) Live image on HDMI screen up to 20 fps (1,920 × 1,080 pixels)
Image formats	2,160p 3,840 × 2,160 16:9 (Capture) 1,080p 1,920 × 1,080 16:9 (Live & Capture) 720p 1,280 × 720 16:9 (Live & Capture) 10 MP 3,648 × 2,736 4:3 (Capture) 5 MP 2,592 × 1,944 4:3 (Capture) 2.5 MP 1,824 × 1,368 4:3 (Capture) 1.9 MP 1,600 × 1,200 4:3 (Live & Capture) 0.8 MP 1,024 × 768 4:3 (Live & Capture)
Movie clip	Full HD (1,920 × 1,080) and HD Ready (1,280 × 720) MP4 with 25 fps
Sensor size	6.44 mm × 4.6 mm, 1/2.3" CMOS
Pixel size	1.67 μm × 1.67 μm
Gain range	1× to 20×
Color depth	3 × 8 bit (24 bit)
Data format	JPEG / MP4
Software	LAS X 3.0 and higher (Windows 7, Windows 10) LAS 4.9 and higher (Windows 7, Windows 8 / 8.1) LAS Acquire 3.3 and higher (MAC OS X) LAS EZ 3.3 and higher (Windows 7, Windows 8 / 8.1, Windows 10)

MECHANICAL AND OPTICAL INTERFACES

Mechanical	Fits between tube and optics carrier via standard Leica dovetail, no additional c-mount or phototube needed
Light distribution	Optical 50 % / Camera 50 %
Internal video magnification	0.5×

INTERFACES

Connectors	1 × HDMI type A (full size) 1 × USB 2.0 type B 1 × RJ 45 (Ethernet port) 1 × analog input for hand-/footswitch
Remote control	IR remote control: RC3 (recommended) or RC2 (compatible) Cable remote control: Hand-/footswitch
Mode panel	2 push buttons for capture and mode selection 3 LEDs to indicate operation mode (USB, HDMI, and Ethernet mode)
Status LED	2 colors (green and red)
SD card slot	SDHC up to 32 GB
Pinhole switch	Toggle between HDMI output resolution

OTHER

Power supply	Over USB 2.0 port (power from computer or external power supply)
Power requirement	5 V DC / 800 mA 4 W
Operating temperature	10 °C to 40 °C (50 °F to 104 °F)
Storage temperature	-20 °C to 55 °C (-4 °F to 131 °F)
Relative humidity	10 % to 90 %
Weight	600 g (camera only)

2. Testing of digital color camera for microscope at your works.
3. Safe delivery to RLG Zonal Stores, BARC, Mumbai

Terms and Conditions :

1. The work is to be completed within 20 days of receiving the firm work order from us.
2. The sealed quotations shall reach the office of the Head PIED, RLG, BARC Mumbai – 85 on or before **24.05.2017 by 1500hrs.**
3. Please address your offer to: **Shri Anil Bhandekar, SO/E, Post Irradiation Examination Division, RLG, BARC, Trombay, Mumbai-400 085.**
4. The quotation is to be sent in a sealed envelope with the following information marked on top of the envelope: “Quotation for Digital Camera for microscope”
5. Offers sent by telegram, telex, fax or e-mail will **not** be considered.
6. Quotation should be in the printed letter head /quotation format which should consist of Sales Tax Registration Number, PAN Number of the firm, Service Registration Number, etc.
7. Computer generated quotation form will not be accepted.
8. All taxes should be mentioned clearly.
9. Item is required for research purposes. Therefore, excise duty will not be applicable. The necessary excise duty exemption certificate will be issued. Supplier has to quote the price exclusive of excise duty.
10. Income tax @ 2% of the value of the work order, surcharge and education cess as applicable will be deducted at source before making the payment.
11. 100% payment will be released within 30 days of satisfactory completion of work.

Yours sincerely,

Anil Bhandekar
SO/G, PIED

Inquiries sent to:

M/s MICRO INFOTECH

**105.Rajasthan Technical Center,Patanwala Compound,L.B.S.Marg
Ghatkopar(W),Mumbai-400 086.**

M/s 3M TECHNOLOGIES

**SHOP NO.3, LAXMI COMPOUND
OPP. SWASTIK CINEMA, LAMINGTON RD,
MUMBAI - 400 034**

M/s SONU Enterprises

**C-318, Kailash Esplanade, Opp. Shreyas Theatre
L B S Marg, Ghatkoper(W), Mumbai-400 086**

M/s Teknor

**18 A, 2nd Floor, Hanuman Tarrace
TARA Temple Lane, Lamington Road
Mumbai 400 007**