NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

N.I.T. Campus (P.O.), Kerala - 673601,
India Tel. : 0495228 , 133, 115, 116
EMAIL :purchase@nitc.ac.in

QUOTATION NOTICE

MAIN STORE

Date : 28-10-2026

SEALED QUOTATIONS are invited for the supply of the stores given in Schedule C. **The tenderers are requested to send their quotations (as per the format given in schedule D) in sealed covers with the quotation reference number and last date for receipt of quotation super scribed.** Wherever indicated, samples may be furnished at the tenderer's expense unless otherwise specified. The tenderers are requested to follow the instruction given in Schedule A. This Institute cannot accept terms and conditions of payment other than the alternative given in Schedule B.

1. Quotation Ref No. **NITC/S&P/S9/730/BSED(P)/EQPT/2026-27**

2. Last Date for receipt of Quotation **18/-11-2026** Upto (IST) Time **4:00 PM**

3. The quoted rates should be valid upto **4 Months**

4. Address to which quotation are to be sent

The Assistant Registrar (Store & Purchase)
NIT Calicut
NIT Campus (P.O.)
673 601

राष्ट्रीय प्रौद्योगिकी संस्थान कालिकट
NIT Campus (P.O)
Calicut - 673601
Kerala, India
National Institute of Technology Calicut

AR (S&P)

Approved for issue

सहायक कुलसचिव (एस & पी)
Assistant Registrar (S & P)
राष्ट्रीय प्रौद्योगिकी संस्थान कालिकट
National Institute of Technology Calicut
केरल - ६७३६०१ / Kerala - 673601

To

1. .....

SCHEDULED A - INSTRUCTIONS TO TENDERERS

(a) Quotations should contain the complete specification and brand names.
(b) All taxes, packing and forwarding charges (if any) and any other charges should be clearly shown
(c) Prices quoted should be for delivering at the premises of NIT CALICUT.
(d) Period within which the items can be supplied of firm order should be clearly mentioned.
(e) Quotations containing conditions like "subject to prior sale" may not be considered.
(f) Quotations received after the due date is liable to be rejected.
(g)An integrity pact should be executed between the buyer and the bidder/vendor for all the contracts.

SCHEDULED B - CONDITIONS OF PAYMENT

One of the following conditions of payment should be accepted if the quotation is to be considered.
(a) 100% payment after the receipt of the items in good condition.
Normally, complete payment will be made within 45 days from the date of receipt/installation of the items in good condition.
(b) The supplier shall furnish Performance Security Deposit and Form Contract as follows:

Note:

1. Above tabular form is applicable while bids are being invited for more than one item and will be evaluated for all the items together. Modify the format accordingly where evaluation would be made for each item separately.

SCHEDULE C :

Sr. No.	Detailed Description	Approx Quantity	Whether Samples are to be sent
1.	Procurement of Inverted Microscope & Accessories(Detailed Specification Attached)	1.	

राष्ट्रीय प्रौद्योगिकी संस्थान कालिकट
NIT Campus (P.O)
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Specifications for Inverted Phase Contrast Microscope with Camera

S.No	Inverted Microscope and Accessories
	General specifications
01.	Inverted Trinocular microscope frame with built-in Camera Port with 100% light for imaging. LED-transmitted illumination for bright-field and phase-contrast studies, with a lifetime of approximately 20,000 Hrs. Aperture diaphragm, Filter holder. Light intensity ratio of observation: Camera port 100:0 / 0:100
02.	Revolving nosepiece vertical movement
03.	Trinocular observation tube and 10X wide field eyepieces (2pcs), observation tube with stroke for interpupillary width 48mm～75mm, angle at eye point 45°, inner diameter of ocular sleeve 30mm, Diopter alignment should be available at eyepieces.
04.	Fine and Course handle, Stroke 20mm (Stroke per round (Course) 36.8 mm, Scale mark 2.5um/one mark
05.	Stage: Plain stage 200 mm (L) X 252 mm (W). Attachable mechanical stage with right-hand vertical low drive controls. acrylic clear stage circular insert, XY handle, handle position Right side, Stroke 10mm(X)×74mm(Y), Stroke per round 36mm, Scale mark for 96-well micro-plate position, lifting type Micro plate holder for flexibility of Using Different Containers. Glass insert plate for the stage. Petri dish holder, glass slide holder and terasaki plate holder. The Microplates can be viewed without a holder, and the user can quickly identify the well address using the grid showing each well position on the XY stage. When viewing a 96-well plate, each 90-degree rotation of the stage knob moves the well one position at a time, making it easy to keep track of the microplate position during observation.
06.	Condenser with a numerical aperture of 0.3 and a working distance of 72mm. The condenser is compatible with objective magnifications from 2X to 40X. The height above the stage is 190mm for working with multiple stacks of sample containers. The tissue flask can be loaded onto the stage.
07.	Interference green contrast filter
08.	Power cord and dust cover
09.	Phase contrast slider for phase observation, pre-centred. The phase contrast slider is applicable for the objectives from 10X to 40X for faster cell culture operations.
10.	Objectives (i) Plan achromat objective 4X with 0.1 NA or better, WD 18.5
	(ii) Achromat phase (pre-centre) objective 10X with 0.25 N.A or better, W.D. 8.8mm
	(iii) Long working distance achromat phase contrast (pre-centre) objective 20X with N.A 0.4 or better, WD 3.2
	(iv) Long working distance achromat phase contrast (pre-centre) objective 40X with N.A 0.55 or better, WD 2.21
11.	C mount and Video port adapter
12.	Camera: 1/2.3", Chipsize 10 Mega Pixel Digital Microscopic Colour Camera with Aptina Sensor, Pixel size: 1.67µm x 1.67 µm, Resolution: 3584 x2748 pixels, 8fps frame rate at 1792x 1374, Dynamic Range 652dB, Binning: 2x2, 4x4 white balance: ROI white balance/ Manual Temp-Tint adjustment.
13.	Laptop for data acquisition and analysis

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14.	Software: Imaging and analysis software includes features such as Image Processing and Enhancement, Image calibration, Measurement, particle counting, and the ability to export count results to Microsoft Excel for further analysis. Image control, adjustment, and capture functions include time-lapse capture.
15.	Upgradability: The above Microscope is on-site upgradable with a fluorescence setup featuring high-transmission fluorescence filter cubes, which are even used in high-end microscopes.

PART-BASED SPECIFICATIONS AND REQUIREMENTS

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		Qty
01.	**Microscope Frame with LED transmitted illumination** New Design Inverted Frame with built-in Camera Port for 100% light for imaging, LED life of 20,000 Hrs. CKX53 Inverted frame, Revolving nosepiece vertical movement, with Trinocular observation tube and 10X wide field eyepieces (2pcs), 4000K colour temperature LED light illumination with Voltage / Power 2.25V / 2.8W, Lifetime 20,000hours, including L-wrench GA4720, clamp for camera cable DO123600 (2pcs) and AB4x8SA screw (2pcs) WEEE regulation. Inverted frame integrated trinocular tube, Aperture diaphragm, Filter holder, observation tube wth stroke for interpupillary width 48mm ~ 75mm, Angle at eye point 45°, Inner diameter of ocular sleeve 30mm, Diopter alignment available at eyepieces. Light intensity ratio observation: Camera port 100:0 / 0:100	1
	Fine and Course handle, Stroke 20mm, (Up 18.5 mm, Down 1.5mm, Stroke per round (Fine) 0.3 mm, Stroke per round (Course) 36.8 mm, Scale mark 2.5 µm/one-mark, Plain stage 200 mm (L) X 252 mm (W). Condenser with numerical aperture: 0.3, working distance: 72mm, applicable objective magnification from 2X to 40X. Tissue flasks up to 190mm in height can be loaded onto the stage.	
02.	**Dust cover** Dust cover Type 020	2
03.	**Power cord**	2
04.	**Mechanical XY stage with clear stage insert & built-in Micro plate holder** Attachable mechanical stage with right-hand vertical low drive controls. acrylic clear stage circular insert, XY handle, Handle position Right side, Stroke 10mm(X)×74mm(Y), Stroke per round 36mm, Scale mark for 96-well micro-plate position, lifting type Micro plate holder for flexibility of Using Different Containers.	2
05.	**Glass stage insert plate** Clear Glass stage insert plate	2
06.	**Petri dish holder** Petri-dish holder (65mm dia. hole) for IX-MVR, including adapters with 54mm dia hole and 35 mm dia. hole	2
07.	**Terasaki plate holder** Terasaki-plate holder (72-well/60-well), including position scales	2
08.	**Slide glass holder** Slide glass holder for IX-MVR	2

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	Objectives & High Contrast iPC optics & Pre-centered Phase slider	
09.	**Pre-centre iPC PH Slider** Phase contrast slider for CKX53 IPC observation, pre-centred. For a one slit ring for 4x to 40X objectives for faster cell culture operations.	**2**
10.	**Plan Achromat 4X** Plan achromat objective 4X/0.1, WD 18.5	**2**
11.	**10X Phase objective** Achromat phase (pre-center) objective 10X/0.25, W.D. 8.8mm	**2**
12.	**20X Phase objective** Long working distance achromat phase contrast (pre-centre) objective 20X/0.4, WD 3.2	**2**
13.	**40X Phase objective** Long working distance achromat phase contrast (pre-centre) objective 40X/0.55, WD 2.2	**2**
	Adapter	
14.	**C-Mount Adapter**	**2**
15.	**Video Port Adapter**	**2**
	Camera and Software	
16.	**CMOS 10 Mega Pixel Camera** 1/2.3" 10 Mega Pixel Aptina Sensor, Color Camera , Pixel size: 1.67 µm x 1.67 µm, Resolution: 3578 x 2748 pixels, 1.9fps frame rate at full resolution, white balance : ROI white balance/ Manual Temp-Tint adjustment.	**2**
17.	**Software (Comes built in with CMOS camera)** Software that comes with Image stitching, Measurement, Extended depth of field, Segmentation & count, Image stacking, Colour composite, auto-exposure, and single-click white balance, and allows capture of images, videos, and time-lapse images. Compatible with Windows.	**2**
	Data Acquisition System for Imaging & Analysis (Lap Top)	
18.	**Lap Top** Suitable: Intel Core i5 processor, a suitable Intel motherboard, 8GB RAM, 1 TB HDD, a graphics card, 14" Screen Size, Windows 11 Professional 64 Bit, USB-3.0	**1**
19.	**Upgradability** The above Microscope should be upgradable with a fluorescence setup featuring high-transmission fluorescence filter cubes, used in high-end fluorescent microscopes.	
20.	**Product working demonstration:** The quoted model of the equipment should be physically brought to the department together with the accessories and demonstrate the working. *(Note: Apart from cell slides/flasks, and electrical power sockets. Other requirements for demonstration have to be arranged by the vendor, no other specification related accessories will be provided by NITC for the demonstration)*	

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Terms and Conditions:

Buyer Added text based ATC clauses.

1. **Product working demonstration:** After opening of the Technical bid (Part-1), Physical demonstration of the quoted model may have to be shown/arranged by the bidder as per the details provided in the technical specification in accordance to the last point ***"Product working demonstration"***. Physical demonstration may be shown at the end user's laboratory located at BSED, NITC within 10 days from the date of request. Physical Demonstration may be requested to confirm the availability of any or all technical features as mentioned/stated in the technical bid. Physical Demonstration will also be a part of technical evaluation process and if the bidder does not comply, such bids are liable to be disqualified. (Demonstration of quoted model and accessories complying technical specifications has to be shown and not the demonstration of similar models or accessories with different technical specifications and features)
2. Bidder should have a registered office or registered service center in Kerala and trade license in Kerala, having its own name from local bodies like corporation, municipalities, etc. should be attached
3. Bidder should have minimum two GEM orders worth Rs. 5 lakhs for microscopes only.

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