

ਪੰਜਾਬ ਕੇਂਦਰੀਯ ਵਿਸ਼ਵਵਿਦਯਾਲਯ

ਗਾँवऔरडाकघर, घुड्डा, जिलाबठिंडा-151401, (पंजाब)

ई-मेल: procurement@cup.edu.in.

वेबसाइट: www.cup.edu.in



Central University of Punjab

VPO: Ghudda, District: Bathinda-151401, (Punjab)

Email: procurement@cup.edu.in

Website: www.cup.edu.in

Subject: Purchase of Inverted Microscope with Camera (OLYMPUS MODEL) - CKX53 on Proprietary/Nomination Basis– Inviting comments thereon.

An indent has been received from Department of Biocehmistry, Central University of Punjab, Bathinda for purchase of Inverted Microscope with Camera (OLYMPUS MODEL) - CKX53 on proprietary/nomination basis.

Departmental PAC certifications and others related documents are attached herewith.

The above documents are being uploaded for open information and to invite objections, comments/offers if any, from any manufacturer/ supplier firm regarding proprietary nature of the item and availability of item/equipment within 10 days from the date of issuance of this notice giving **Reference No. 777 dated 03.01.2024** Objections/ Comments should reach Office of the Stores & Purchase Branch, Central University of Punjab, V.P.O- Ghudda, District Bathinda – 151 401 by post or through email procurement@cup.edu.in on or before 13.02.2023, failing which it will be presumed that no firm has any objection/ comment to the above offer and case will be decided on merits as per rules.

Sd/-

I/c Stores & Purchase Branch

Enclosure:

1. PAC.
2. Detailed Specifications.

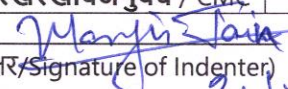
मांगकर्तकानाम/Name of Indenter : Dr Manju Jain

विभागकानाम/ Name of Department : Biochemistry

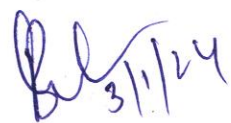
उपकरणकानाम/ Name of Equipment : Inverted Microscope with Camera

क्रमांक Sr. No.	तकनीकीविनिर्देश Technical specifications	मात्रा Qty.
	Inverted Microscope with Camera(OLYMPUS) Model – CKX53 should have following specifications	
1	Optical system: Universal Infinity Corrected Optical system.	01
2	Focus: Revolving nosepiece vertical movement system using the coarse and fine focusing knobs. Stroke: 20mm (Focal point: up to 18.5 mm from the plain stage top surface) Stroke per rotation: 36.8mm (coarse), 0.3mm (fine)	
3	Stage: Mechanical stage with flexible right hand low drive control along with universal holder for dishes, microplate & flasks and slides.	
4	Illuminator: 4000K color temperature LED light source. LED transmitted light with atleast 20,000 hours lifetime.	
5	Condenser: Long working distance condenser for bright field and phase contrast application, N.A. 0.3 and W.D. 72mm or better. Phase slider for phase contrast application with single position for 4X-40X. Up to 190 mm height tissue flask / multiple plates can be loaded on the stage without detachable condenser. Large area of illumination with the condenser that can illuminate 11mm or more area to cover whole FOV.	
6	Observation Tube: Fixed trinocular tube inclined at 45° with diopter adjustment facility, Interpupillary distance adjustable to 48-75mm.	
7	Eyepieces: Paired 10X eyepiece with F.O.V 22mm or better.	
8	Objectives: High performance objectives suitable for Brightfield and Phase Contrast application should be available. <ul style="list-style-type: none"> • Plan Achromat 4X, N.A. 0.1mm or better • Plan Semi Apochromat Phase 10X, N.A. 0.3mm or better • Plan Semi Apochromat Phase 20X, N.A. 0.45mm or better • Plan Semi Apochromat Phase 40X, N.A. 0.6mm or better • Plan Achromat 100X oil, N.A. 1.25mm or better Inverse Contrast for 10X Objective should be included for clearer image to cut-off out of phase light.	
9	Camera: Should have features for high light sensitivity for working under low light conditions with lower exposure time along with in-build colour correction for high contrast and better imaging. High resolution color CMOS camera with 6.4 megapixel or more resolution. The sensor should be 1/1.8" color CMOS with pixel size of 2.4µm X 2.4µm. Manual & Auto exposure time should be 13µs – 15seconds. The frame rate should be minimum, 45 FPS at full resolution with high speed of 60 FPS in full HD mode. USB 3.0 interface for fast data transfer along with 0.5X C-mount adapter.	
10	Analysis Software: Should act as an interface between the camera and the computer system. It should have the following features: <ul style="list-style-type: none"> - Acquisition & device control. - Filters for Image enhancement. - Background & dark field correction. 	

		<ul style="list-style-type: none"> - Fully compatible for Bright field, Phase Contrast as well as immunofluorescence imaging and analysis. - Image annotation. - Time lapse acquisition - Time Lapse imaging at specified intervals - Multiple Image Stitching. - Image annotation. - Filters for image enhancements. - Geometry/combine/filter processing. - Manual Z axis imaging. - Manual object counting. - Region & Line measurements. Multiple undo/redo options. - Live Histogram. - Measurements for line profile, measurements on live images, auto calibrate, interactive measurements data tables, classify line and tag measurements. - Auto calibrate for micrometer. - Report & share. - Documentation and collaboration. - Overlay multiple images, document groups for side by side image comparison. - Touch count/Object Count Facility to count objects, make several classes and name them and export to excel files or workbooks. 	
11	Computer:	Branded compatible P.C. with i7 processor, 8GB RAM, 512GB SSD, keyboard, mouse, 24" LED Screen with original Window 11 Professional or better.	
12	Note:	Microscope, Camera & Software should be from same make manufacturer for better compatibility.	
13	Certification:	ISO and USFDA certified.	
14	Quote:	The offer should be submitted in INR on FOR delivery basis (Central University of Punjab, Bathinda).	
			वारंटी/ Warranty 02
			वार्षिक रखरखाव अनुबंध/ AMC
			व्यापक रखरखाव अनुबंध / CMC


 (मांगकर्ताके हस्ताक्षर/Signature of Indenter) 2.1.24

यह प्रमाणित किया जाता है कि तैयार किए गए विनिर्देश पर्याप्त रूप से विस्तृत हैं और एकल निर्माता / आपूर्तिकर्ता से संबंधित नहीं हैं (स्वामित्वाधीन नहीं होने पर लागू) / It is certified that the specifications framed are wide enough and does not belong to single Manufacturer/ Suppliers (Applicable if not Proprietary). NA


 विभागाध्यक्ष/ HOD

 (मांगकर्ताके हस्ताक्षर/ Signature of Indenter)

PROPRIETARY ARTICLE CERTIFICATE

As per Rule 166 GFR 2017 –

Single Tender Enquiry. Procurement from a single source may be resorted to in the following circumstances: -

- i. ✓ It is in the knowledge of the user department that only a particular firm is the manufacturer of the required goods.
- ii. In a case of emergency, the required goods are necessarily to be purchased from a particular source and the reason for such decision is to be recorded and approval of competent authority obtained.
- iii. For standardisation of machinery or spare parts to be compatible to the existing sets of equipment (on the advice of a competent technical expert and approved by the competent authority), the required item is to be purchased only from a selected firm.

Note: Proprietary Article Certificate in the following form is to be provided by the Ministry/Department before procuring the goods from a single source under the provision of sub **Rule 166 (i) and 166 (iii)** as applicable.

- 1. The indented goods are manufactured by M/s.....*Olympus*.....
- 2. No other make or model is acceptable for the following reasons:
 - 1. *The system has features for large area of illumination with precision of inversion contrast, smart image averaging system and phase-slides with single position for 4x-40x for better and hassle-free Imaging.*
 - 2. *The system has enhanced light sensitivity system that gives uniformly brightened images with low exposure time and inbuilt colour correction.*
 - 3. *Tissue floaks with higher width and multiple plates can be adjusted on the stage with more working space.*
- 3. Concurrence of finance wing to the proposal vide :
- 4. Approval of the competent authority vide :

Manjiv Taini
2-1-24.
Signature with date

Signature, Head of the Department

Designation of Indenting Officer

Assistant Professor

With Office seal with Date:

21/1/24

अध्यक्ष / Head
जैवरासायन विज्ञान विभाग / Department of Biochemistry
पंजाब केंद्रीय विश्वविद्यालय
Central University of Punjab
ग्राम व डाकघर घुडा (बठिंडा) / VPO Ghudda (Bathinda)
पंजाब, भारत / Punjab, India-151401