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1	Change in specifications for Optical Fluorescence Microscope 3(25)2021	Change in specifications for procurement of Optical Fluorescence Microscope - corrigendum with revised specifications attached	07-Feb-2022 09:55 AM	Corrigendum3(25)2021.pdf	958.84

सीएसआईआर – केन्द्रीय वैज्ञानिक उपकरण संगठन
(वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद्)
सैक्टर–30 सी, चण्डीगढ़ (भारत)
CSIR-Central Scientific Instruments Organisation
(Council of Scientific & Industrial Research)
Sector 30-C, Chandigarh (India)
www.csio.res.in

PURCHASE SECTION

No. CSIO/3(25)/2021-Pur

February 04, 2022

CORRIGENDUM

Subject: Procurement of Optical Fluorescence Microscope

Ref:- E-Publish Tender ID No. ID No. 2022_CSIR_643710_1 dated 25.01.2022

Please refer our Tender for Procurement of Optical Fluorescence Microscope published under above referred Tender ID. Based on the representation made by the bidder, it has been decided to revise the specifications. The revised specifications are enclosed.

The bidders are requested to submit their bid as per revised specifications and the bidders who have already submitted their bid are requested to submit the fresh tender.

Other Terms & conditions will remain the same.

The clarifications/queries can be sought through e.mail at cosp@csio.res.in

(Mohinder Kumar)
Controller of Stores & Purchase

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Revised Technical Specifications of Optical Fluorescence Microscope

APPLICATION SCOPE OF MICROSCOPE: Biological and Material science related application	
SCOPE OF WORK BY THE SUPPLIER/MANUFACTURER: • To supply, install and commission instrument at CSIR-CSIO. • To demonstrate and prove performance of the machine. • Training to CSIR-CSIO staff for 3 days related to routine operation, application and maintenance of the machine.	
REQUIRED SPECIFICATIONS	
Parameters/Modules Required	Inverted microscope with modules viz; Phase contrast, fluorescence, bright field, DIC, Dark field
Stand	• Stand with motorized focus drive. • Function/Control keys for light and contrast manager interfaces, etc. • Touchscreen TFT/Display. • Upgradable for beam path deflection for coupling laser through back or side port. **Stand should be supplied with all required accessories to make it fully functional.**
Illuminator	• Two Illuminators (one halogen &one LED based), with housing for mounting on the lamp interface for transmitted and reflected light, with a switching mirror to switch between the two. **Illuminators should be supplied with all required components and accessories to make it fully functional.**
Eyepiece	• 10X magnification, F.N. 22 mm or more • Observation Tube: In range from 30to45 ° with manual shutter.
Nosepiece	• Six positions or more motorized nosepiece with individual slots to mount objective specific DIC Slider for each objective, analyzer to accommodate objectives of different magnifications. **Item should be supplied with all supportive and essential accessories to make the system fully functional.**
Objective(s)	• High performance objectives suitable for bright field, dark field DIC and fluorescence applications with following magnification; (i) LD 4x or 5 x with NA 0.10 or more (ii) LD 10x/NA 0.25 or more (iii) LD 20x/NA 0.4 or more (iv) LD fluorescence 40x/NA 0.6 or more (v) EC fluorescence 100 x/NA 1.3 (oil) or more • Additional 50 x/NA 0.75 or more, objective for material science application. • DIC accessories should be provided for 40x & 100x objectives, with suitable condenser module. **All optical components should be supportive for deep UV. All necessary accessories required to be provided with the system to make it functionally functional.**
Stage	Manual stage with universal holders/different inserts e.g for slides and petri dishes and multiwell plates, etc. **The stage should be provided will all required accessories to make the system fully functional.**
Condenser	• Long distance motorizedcondenser with NA 0.55, suitable for all microscopy techniques; BF, PH, DIC, etc, with at least 6 positions for condenser optics, including shutter. • Polarizer and Analyzer module DIC for transmitted light.

	• Polarizer and Analyzer module DIC for transmitted light. **All supportive components/accessories to be provided with the system for full functionality.**
Fluorescence Attachment	• 6 positions or more rotatable motorized turret. • 4-channel fluorescence light source, compatible with LED lamp housing module, Equipped with 4 solid state LED lamps for red, blue, green & UV light. **All supportive components/accessories to be provided with the system for full functionality.**
Monochromatic Cooled Camera	• 1.4 mega pixel or more • Pixel size: In between2.0 µm x 2.0 µm to 6.50 µm x 6.50 µm • Frame rate: 40 fpsor higher either at full resolution or with binning • ADC/Bit depth: 10 bit or higher ✓ **Item should be supplied with all supportive and essential accessories including control software to make the system fully functional.** ✓ **RGB color Band pass filters should be made available with the microscope along with required mounters.** ✓ **Microscope and Camera should be from same manufacturer.**
Color camera	• 5.0 mega pixel or more. • Frame speed: 15 fps or more at full resolution. **Item should be supplied with all supportive and essential accessories to make the system fully functional.**
Image Analysis Software	Compatible software(s) for image acquisition, merging & unmerging of multiple fluorescent channels, 3D viewing, intensity measurement, time-lapse and region-line measurement, etc. Software should have capability of data recording and analysis for material science related parameters also. **Software should be capable of performing functions related to all mentioned modes, like Phase contrast, fluorescence, bright field, DIC, &dark field.**
Warranty	Two years warranty on full system.
Computer, printer & UPS	Branded computer system having i7 processor or better, with 10th generation, minimum 16 GB RAM, DVD Writer, Latest Original Windows 10 Pro 64-bit OS, 1 TB HDD or higher, at least 21" TFT color monitor, preloaded MS Office, inbuilt graphics, keyboard and mouse, with branded Color laser printer with duplex printing and branded UPS with 30 minutes backup (3 years warranty for computer, printer & UPS). **The system should be compatible to the microscope, camera and related softwares.**
AMC	Vendor should quote the comprehensive as well as non-comprehensive AMC charges for next five years after the completion of two years warranty (i.e.3rd year onward).