

CORRIGENDUM

Tender reference no: e-Proc/CONCOCAL_11082022/DRC_IEST/512

Tender Id: 2022_IEST_706364_1

Tender Specifications as per NIT	Modification
System should be state of the Art facility which should be capable to perform Live Cell imaging, Multidimensional imaging, FRET, FRAP, FILM, photo-activation/ bleaching and photo-conversion.	System should be state of the Art facility which should be capable to perform Live Cell imaging, Multidimensional imaging, FRET, FRAP, FLIM (optional) photo- activation/ bleaching and photo-conversion.
Section A: Motorized Inverted Fluorescence Research Microscope	
(v) LED / Halogen illumination for transmitted light & 120W metal halide illumination or LED illumination with 10,000h or higher lifetime for Fluorescence should be offered. In case of LED illumination in fluorescence mode, min 4 LED's should be part of the configuration (375 nm, 477 nm, 552 nm and 640 nm or equivalent)	LED / Halogen illumination for transmitted light & 120W metal halide illumination or LED illumination with 10,000h or higher lifetime for Fluorescence should be offered. In case of LED illumination in fluorescence mode, min 4 or more LED/wavelengths should be part of the configuration [375/390 nm, 477/480 nm, 552/560 nm and 640 nm or equivalent white light (390nm-680nm)]
(vi) IR LED (800 nm or above) hardware-based drift compensation mechanism for long term live cell imaging application should be available as standard with the system and controlled by the software.	IR LED/laser (785 nm or above) hardware-based drift compensation mechanism for long term live cell imaging application should be available as standard with the system and controlled by the software
(vii) High resolution confocal grade objectives of 10X/0.4 or better NA, 20X/0.70 or better NA, 40x/1.30 NA oil, 60/63x/1.40 NA oil immersion or better. 100X/1.40 NA oil immersion for TIRF imaging. Dedicated Live cell imaging Objective 60X or 63X/1.20 NA water immersion or better. All the quoted objectives should be Plan Apochromat (UV-Vis-IR compatible).	High resolution confocal grade objectives of 10X/0.4 or better NA, 20X/0.70 or better NA, 40x/1.25 NA oil, 60/63x/1.40 NA oil immersion or better. 100X/1.40 NA oil immersion for TIRF imaging. Dedicated Live cell imaging Objective 60X or 63X/1.20 NA water immersion or better. All the quoted objectives should be Plan Apochromat (UV-Vis-IR compatible).
(viii) Automated Shift free DIC accessories for all objectives. Motorised 6 position condenser with DIC position for all objectives with motorized DIC setup. All the DIC components including polarizer analyzer and prisms should be motorized to get complete DIC benefits. Motorised 6 position DIC nosepiece	Automated Shift free DIC accessories for all objectives. Motorised 6 position condenser with DIC position for all objectives with motorized DIC setup. All the DIC components should be capable to shift from DIC to Fluorescence vice a versa using click of software without any human touch and to get complete DIC benefits. Motorised 6 position DIC nosepiece
(ix) Pixel shift free Narrow band-pass fluorescence filter for DAPI, GFP, YFP, RFP, Cy3 and Cy5 should be included	Pixel Shift Free narrow band-pass fluorescence filters for DAPI, GFP, YFP, RFP/Cy3 and Cy5 should be included.
(xi) Dedicated monochrome cooled sCMOS Camera 1/2" or 2/3" chip with 4 million or better net effective pixel resolution (FireWire/USB III based) controlled by the same Confocal software for multichannel, z stack, time lapse wide field imaging with a speed of 30 fps at full resolution.	Dedicated monochrome cooled sCMOS Camera 1" or 2/3" chip with 4 million or better net effective pixel resolution (FireWire/USB III based) controlled by the same Confocal software for multichannel, z stack, time lapse wide field imaging with a speed of 30 fps or more at full resolution and should have 80% or more QE.
Section B: Confocal Scan Head and Detection system	
(i) Laser point scanning and Confocal detection unit with at least 4 channels for simultaneous detection of 4 fluorophores in high sensitivity mode.	Laser point scanning and Confocal detection unit with 5 or more channels for simultaneous detection of 5 or more fluorophores in high sensitivity mode.
(iv) Scanner unit should have laser ports for at least 4 lasers to be integrated with the system.	Removed.
(xi) System should be capable to improve resolution above optical diffraction limit to provide resolution of not inferior to 120 nm and Z resolution of not inferior to 200-300 nm or better.	System should be capable to improve resolution during acquisition of above optical diffraction limit to provide resolution of not inferior to 120 nm and Z resolution of not inferior to 200-300 nm or better.
Section C: Solid State Laser module with AOTF control	
(i) Pre-aligned air-cooled Solid state laser launcher with at least 18-20mw or better at fiber out laser (for Confocal and TIRF Imaging)	Pre-aligned cooled Solid state laser launcher with at least 20-30 mw or better for visible excitation range and at least 40-50 mw for UV excitation at laser source
Section E: Real-time super resolution Imaging	
i. Fully automated hardware based real-time and online Super resolution attachment with suitable high sensitive Detectors for complete Vis Spectrum. A dedicated super resolution detector with QE/PDE of 45% or a very high sensitive detector with PDE of 55% or more should be provided. One Click SR imaging for multiple colours simultaneously should also be available. Scanning speed in Super resolution mode should be as same as with the confocal mode or better.	Fully automated hardware based (not convolution software based) real-time and online Super resolution attachment with suitable high sensitive Detectors for complete Vis Spectrum for minimum 5 color simultaneous super resolution imaging. A dedicated super resolution detector with QE/PDE of 45% or a very high sensitive detector with PDE of 55% or more should be provided. One Click SR imaging for multiple colours simultaneously should also be available. Scanning speed in super resolution mode should be as same as with the confocal mode or better.
Section G: Additional requirements	

(xii) Site preparation for installation and operational requirements for the instrument will borne by the vendor	Site preparation for installation and operational requirements for the instrument will borne by the vendor and should include the following: 1. One Branded AC; 2. One Dehumidifier with minimum 20L Capacity
<u>Terms and Condition</u>	
v. The work must be completed after placing the work orders by 08 weeks	The work must be completed within 08-12 weeks from the receipt of error free LC.
xiii. Payment will be made within 60 days of submission of proper bills, challans etc. by a/c Payee cheque. No cash payment will be made under any circumstances.	<ul style="list-style-type: none"> • Payment for INR will be made within 60 days of submission of proper bills, challans etc. by a/c Payee cheque. No cash payment will be made under any circumstances. • Payment for Foreign Currency will be made 100% through irrecoverable error free LC.

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