

DEPARTMENT OF ZOOLOGY
VISVA-BHARATI
(Tender Ref. No. DOZ/DST-FIST/1-2/2015 Date: 05.08.2015)
CORRIGENDUM
Date: 21/08/2015

The following amendments have been made to the **Motorized Spectral Laser Scanning Confocal Microscope (Item number 1)** in the Tender document referred above.

<u>Item No.</u>	<u>Specification for Fully Motorized Spectral Laser Scanning Confocal Microscope</u>	<u>Unit</u>
1	<ol style="list-style-type: none"> 1. Inverted research grade microscope with fully motorized platform for high resolution confocal laser scanning with all latest technology. 2. A high resolution plan apochromat or equivalent objectives optimized for confocal scanning applications which preferably include 10x/0.40, 20x /0.80/, 40x/0.85 or/and 40x/1.3oil and 60/63x/1.40 oil immersion with automated shift free DIC accessories and light and contrast manager. Multi immersion 20x objective should be included in the optional item. 3. For transmitted illumination, 12V/100W halogen/LED illumination and for fluorescence 120W metal halide illumination with at least 2000h lamp life. 4. Motorized fluorescence turret with 6-positions; band-pass fluorescent filters (UV, Blue and Green) for DAPI, GFP, Cy2, Cy3, FITC, TRIRC should be provided. 5. Z-increment should be around 10-20 nm. 6. Fully spectral detector unit with at least four independent filter free inbuilt spectral PMT detectors for 4 colour simultaneous imaging. Out of 4 detectors, at least two should have inbuilt GaAsP/HyD detector. Image resolution should be very sensitive, preferably below 150 nm by suitable technique, so that a better selection for imaging resolution may be available. Detectors should have individual gain and voltage control. 7. For spectral information, Lambda scan facility should be offered. 8. Preferred Laser requirement: Visible laser set with multiline Argon (35mW)- 	One

	<p>458nm, 488nm and 514nm, DPSS 561nm (20mW) and HeNe 633nm (10mW) and UV-405nm (50mW or higher)</p> <p>9. Software: System should be provided with basic software for microscope control, confocal system control, basic modules for ROI scan and bleach for FRAP, 3D and 4D clipping and movie making, time lapses etc. Application software for 3D software, advanced FRET AB, FRET SE, FRAP software. Facility to image extended dynamic range for all the detectors provided.</p> <p>10. Anti-vibration table along with work station should be provided from the same manufacturer.</p> <p>11. Scanning speed preferably up to 7 fps at 512x512 standard pixel formats. Provision for ultra fast live cell imaging may be offered with at least 28fps at 512X512 as optional item.</p> <p>12. Incubation facility with suitable gas cylinder and gas lining with active CO₂ control facility. Both on stage and large incubator facility should be mentioned alternatively with either only CO₂ or both CO₂ and Zero Air Gas cylinders and double stage regulators for the cylinders.</p> <p>13. Online UPS (5KV) covering at least 30m backup, suitable AC (2 ton, two numbers), 5KVA voltage stabilizer, dehumidifier, Vinyl flooring, dark room facility, cubicle, best quality aluminium partitioning (8ft X 8ft X 10ft) should be included as local items.</p> <p>13. Monochrome cooled CCD camera having 2/3” chip and ~14 mega pixel image or 1/3 inch chip with 1.3 mp resolution (FireWire based).</p> <p>14. A regular full time trained operator for technical support to be stationed at university at supplier cost to run the system 24X7.</p>	
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The last date of submission of tender has been extended to 19/09/2015. The technical bids will be opened on 21/09/2015 (Monday) at 11:00 AM.

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Co-Ordinator, DST-FIST
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