

DEPARTMENT OF ZOOLOGY
VISVA-BHARATI
(Tender Ref. No. DOZ/DST-FIST/1-2/2015 Date: 05.08.2015)
CORRIGENDUM
Date: 29/08/2015

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

<u>Item No.</u>	<u>Specification for Fully Motorized Laser Scanning Confocal Microscope</u>	<u>Unit</u>
1	<p><u>Specification for Fully Motorized Laser Scanning Confocal Microscope</u></p> <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/ suitable LED illumination is required. 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. Fully spectral detector unit (at least three) with hybrid detector technology having suitable quantum efficiency and at least two of them should have GaAsP/HyD detector. Detectors should have individual and offset control. 6. Preferred Laser requirements: Appropriate gas/solid state lasers suitable for all the necessary dies as mentioned above having maximum lifespan. 7. For spectral information, Lambda scan facility should be offered. 8. Software: System should be provided with basic software for microscope control, confocal system control, basic modules for ROI scan and bleach for 	One

	<p>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>9. Anti-vibration table along with work station should be provided from the same manufacturer.</p> <p>10. Scanning speed preferably up to 7 fps at 512x512 standard pixel formats. Ultra fast cell imaging facility is required.</p> <p>11. 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>12. Online UPS (5KV) with at least 30 min back up, a 5 KVA voltage stabilizer, 2 Ton AC (3 in number), dehumidifier, vinyl flooring, dark room facility, cubicle (15 ft X 10 ft X 10 ft), partitioning with 12 mm thick highly polished glass should be included as local items.</p> <p>13. Monochrome cooled CCD/CMOS camera having 2/3'' chip and ~1.4 mega pixel image resolution (FireWire based) or 1/3 inch chip with 1.3 mega pixel image resolution.</p> <p>14. A full time trained operator to run the confocal microscope to be stationed at the university at supplier's cost would be necessary.</p> <p>15. Technical suitability that cover more advanced technologies would be considered which can better serve our research activities.</p>	
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Other terms and conditions in the above tender remain unchanged.

Head, Department of Zoology &
Co-Ordinator, DST-FIST
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