

Corrigendum

Sl No.	Section	Present	Amended
1.	Section 1 Table Serial No. 6	5 th January 2024, 5 PM	19 th January 2024, 5 PM
2.	Section 3-A Submission of Tender Point 2	<p>b) Commercial Bid (Part-B) – Indicating item wise price for the items mentioned in the technical bid, as per the format of quotation provided in tender, and other commercial terms and conditions. The commercial bid should be broken up to the maximum extent possible into separate items with a cost against each (in particular the optional items) to enable better comparison of price for various configurations across the bidders. As an option, please provide itemized cost for any <i>suggested</i> accessories/add-ons that may enhance the usability, capability, accuracy or reliability of the tool. Vendors are encouraged to quote for as many add-ons as their tool portfolio permits.</p>	<p>b) Commercial Bid (Part-B) – Indicating item wise price for the items mentioned in the technical bid, as per the format of quotation provided in tender, and other commercial terms and conditions. The commercial bid should be broken up to the maximum extent possible into separate items with a cost against each (in particular the optional items) to enable better comparison of price for various configurations across the bidders.</p> <p>c) In addition, please provide itemized cost for any <i>suggested</i> accessories/add-ons that may enhance the usability, capability, accuracy or reliability of the tool. Vendors are encouraged to quote for as many add-ons as their tool portfolio permits.</p>
3.	Section 3-F Warranty	The complete system is to be under warranty period of 4 years including free supply of consumables, spare parts and data analysis software from the date of functional installation.	The complete system is to be under warranty period of 3 years including free supply of consumables, spare parts and data analysis software from the date of functional installation.
4.	Section 4-A Technical Specifications Point 2	Trinocular observation tube with three position prism for selection of light path for full observation to 10X eyepiece, 50% - 50% / 80% - 20% Camera Port - eyepiece, 100% Camera Port	Trinocular observation tube with three position prism for selection of light path for full observation to 10X eyepiece, 50% - 50% and 80% - 20% / 100% - 0% and 0 – 100% camera port - eyepiece
5.	Section 4-A Technical Specifications Point 4	Universal Sample Holder for slides, 35-60mm petridishes, 6/12/24 well plates, labtek chambers etc	Universal Sample Holder for slides, 35-60mm petridishes etc
6.	Section 4-A Technical Specifications	LED illumination with a minimum life time of 10,000 Hrs / Halogen lamp with 12V/100W power for bright field / DIC	LED illumination with a minimum life time of 10,000 Hrs / Halogen lamp with 12V/100W power for bright field / DIC. In

	Point 5		case of Halogen, 10 extra lamps should be quoted to match the minimum lifetime.
7.	Section 4-A Technical Specifications Point 7	Band pass fluorescent filters for wavelenths in range: DAPI, CFP, GFP, Cy3, Cy5; atleast 4 empty filter cube: these are part of the turret	Band pass fluorescent filters for wavelengths in range: DAPI, CFP (optional), GFP, Cy3, Cy5; at least 1 empty filter cube: these are part of the turret
8.	Section 4-A Technical Specifications Point 11	Z-drift compensator for long time stability time lapse imaging (must use near IR light to detect the correct focus position).	<i>Not required</i>
9.	Section 4-A Technical Specifications Point 12	C Mount Adapter for Left Side 100% Port for mounting Camera.	<i>Not required</i>
10.	Section 4-A Technical Specifications Point 15	Plan apochromatically corrected (correction of chromatic and spherical aberrations from 400nm – 900nm) / infinity corrected optics consisting of following objectives: 4X air objective NA \geq 0.2 10X air objective NA \geq 0.4 20X air objective long working distance NA \geq 0.7 20X water dipping objective NA \geq 0.5; WD \geq 1 mm 40X air objective long working distance with NA \geq 0.6 40X water dipping objective NA \geq 0.8; WD \geq 2mm DIC modules for 10X - 60X	Plan apochromatically corrected (correction of chromatic and spherical aberrations from 400nm – 900nm) objectives / infinity corrected optics consisting of following objectives: 4X/5X air objective NA \geq 0.15 10X air objective NA \geq 0.4 20X air objective long working distance NA \geq 0.7 20X water dipping objective NA \geq 0.5; WD \geq 1 mm 40X air objective long working distance with NA \geq 0.6 40X water dipping objective NA \geq 0.8; WD \geq 2mm DIC modules for 10X - 60X
11.	Section 4-A Technical Specifications Point 16	Plan super apochromat objective - 60x; NA \geq 0.8 water dipping / immersion	Plan apochromat objective - 60x/63x; NA \geq 0.8 water dipping / immersion
12.	Section 4-A Technical Specifications Point 17	Plan super apochromat objective - 60X; NA \geq 1.0 oil immersion	Plan apochromat objective - 60X/63x; NA \geq 1.0 oil immersion

13.	Section 4-A Technical Specifications Point 19	Monochrome sCMOS camera with dynamic range of 20,000 or better for wide field imaging in epi-fluorescence (reflected fluorescence). Minimum resolution of 2048 x 2048 pixels. QE between 400 to 850 nm should be greater than 45%, with peak QE at least 80%. Minimum full resolution frame rate 30 fps.	Monochrome sCMOS camera with dynamic range of 20,000 or better for wide field imaging in epi-fluorescence (reflected fluorescence). Minimum resolution of 2048 x 2048 pixels. Peak QE at least 80%. Minimum full resolution frame rate 40 fps.
14.	Section 4-A Technical Specifications Point 20	The system should be capable of reflected light microscopy in wide-field, fluorescence and confocal modes, with appropriate vertical illuminators and epi-plan objectives.	The system should be capable of reflected light microscopy in wide-field, fluorescence and confocal modes, with appropriate vertical illuminators and epi-plan objectives. Suitable filter/prism should be quoted to perform widefield based reflection mode imaging.
15.	Section 4-A Technical Specifications Point 23	The system should have at least 2 high sensitive GaAsP/HyD detectors having at least 45% QE and 2 PMT detectors and should be capable of simultaneous detection of 4 fluorophores. PMT detector for transmitted light for brightfield / DIC imaging with motorized switching.	The system should have at least 4 high sensitive GaAsP / HyD detectors having at least 45% QE should be capable of simultaneous detection of 4 fluorophores. PMT detector for transmitted light for brightfield / DIC imaging with motorized switching.
16.	Section 4-A Technical Specifications Point 24	Hybrid XY scanner with scanning speed of 25 fps or better at 512 x 512 pixels	Hybrid XY scanner with scanning speed of 10 fps or better at 512 x 512 pixels and 200 fps for 512x16. Additional scanner to image at 25 fps or better at 512 x 512 pixels and 400 fps for 512x16.
17.	Section 4-A Technical Specifications Point 28	Laser combiner with 4 solid state Lasers, of wavelengths in these ranges: 400-410, 480-490, 530-578 & 620-660 nm, with minimum powers of 15mW with fast laser switching capability (using either AOTF or some similar technology: please specify). All the built-in lasers should be usable in future for FCS and FCCS upgradation. Option to add extra laser later.	Laser combiner with provision to accommodate 6 solid state Lasers. Current requirement is of lasers with wavelengths in these ranges: - 400-410 nm, - 480-490 nm, - 530-578 nm & - 620-660 nm All lasers with minimum powers of 15mW with fast laser switching capability (using either AOTF or some similar technology: please specify). 405 nm laser should have a minimum power of 30mW to enable FRAP and FRET imaging. Option to add extra laser later.
18.	Section 4-A	Solid state diode laser 594 nm for dedicated mCherry applications	594 nm laser line for dedicated mCherry applications and 440-450nm laser line for the CFP imaging.

	Technical Specifications Point 29		
19.	Section 4-A Technical Specifications Point 37	Essential	Optional
20.	Section 4-A Technical Specifications Point 43	Capability to perform FCS (provide details as appropriate)	<i>Not required</i>
21.	Section 4-A Technical Specifications Point 44	Lens cleaning papers, immersion oil and standard slides for calibration should be provided at the time of installation.	Lens cleaning papers, immersion oil and standard slides for calibration should be provided at the time of installation (appropriate quantities to be provided).
22.	Section 4-A Technical Specifications		<i>Added as Essential at Point No. 46</i> Super resolution imaging: The system should have the capability of achieving resolution of 120 nm or better in XY and 300 nm or better in Z during imaging with a dedicated detector, should be possible with any objective like 10X, 20x and 40X for standard confocal dyes ranging throughout the visible spectrum range without compromising the speed (minimum 10 fps at 512 x 512).
23.	Section 4-A Technical Specifications		<i>Added as Essential at Point No. 47</i> Warranty for 3 years and AMC for two years should be quoted.
24.	Section 4-A Technical Specifications		<i>Added as Optional at Point No. 48</i> Additional image analysis software package that can support wide range of applications to generate insights from images with total freedom to analyse and explore microscopy data sets. E.g. Deep Learning and Python/Matlab/Java or equivalent Integration to apply any of pre-trained machine learnt models/protocols/recipes for image enhancement and/or

			segmentation for enhancement of specific intracellular parts like filamentous structures, neurons, vessels, spines; nuclei count and tracking, cell count and tracking, particle count and tracking, cell proliferation assay, neurite outgrowth, wound healing (phase contrast), stem cell colony detection (phase contrast), cell tracking (phase contrast), object detection (meshes), object detection (spots), object tracking and lineage tracing. Video Animator to generate high fidelity video animations of up to 4K and 60 fps.
25.	Section 5 Annexure 5 Instruction to Bidders	3. Bidders should clearly indicate compliance or non-compliance of the technical specifications provided in the tender document.	<p>3. Bidders should clearly indicate compliance or non-compliance of the technical specifications provided in the tender document in the following format (see appendix).</p> <p>4. The proposal should contain a compliance table with 4 columns in addition to the ones in the technical requirements table that has been included with this RFQ below. The compliance table should include all the items in the same order and format (see appendix).</p> <p>5. The first column should describe your compliance in a “Yes” or “No” response. If “No” the second column should state the extent of deviation. The “third” column should state the reasons for the deviation if any. The fourth column can be used to compare your tool with that of your competitors or provide details as requested in the technical requirements table (see appendix).</p>
26.	Section 5 Annexure 5 Instruction to Bidders		The compliance table format needs to be followed (see appendix).
27.	Section 6	Warranty (5 years)	Warranty (3 years)

	Table Serial No. 5		
28.	Section 7-A Sealed Envelope "A": Technical Bid Point 1-e	Annexure 5: Details of items quoted	Annexure 5: Details of items quoted in <u>required format</u> (see appendix).

Appendix

Requested compliance table format:

S. No.	Specification	Essential/O ptional requested	Compliant (Y/N)	If N, extent and nature of deviation	Reason for deviation / alternative	Comparison with competitor (optional)
1.	Fully motorized infinity corrected microscope stand for.....	Essential				
2.	Trinocular observation tube....	Essential				