

Response To Pre-Bid Queries (Pre-Bid date: 24.02.2022)				
Bid Number: GEM/2022/B/1942212 Dated: 10-02-2022				
Item Name: Fluorescent Microscope with Work Station and Cytogenetics1942212 / Fish image analyzing software				
Sr. No.	Buyer Specification Document Page & Para	TENDER SPECIFICATION	REPRESENTATION RECEIVED FROM THE FIRM	COMMITTEE RECOMMENDATION
1	Pg 1 Para 1	Microscope Stand: Should have motorized Z-focus drive with minimum step resolution of 10nm with touch pad control. 8 Position or higher motorized fluorescence filter turret, 6-7 position motorized nosepiece facility with slot for DIC.	Microscope Stand & Nosepiece DIC slots: This is dedicated system for FISH and dedicated software is required. DIC is an observation technique which required another dedicated software to be provided on the dedicated FISH system which will make things complex.	No Change
2	Pg 1 Para 2	Observation Tube: Trinocular Observation tube with inclination angle of 15- 30 degree; field of view minimum 25mm or more. Three way light distributions of approximately 100:0/20:80 or 50:50/0:100.	'Observation Tube: Trinocular Observation tube with inclination angle of 15- 30 degree; field of view minimum 22mm or more. Three way light distributions of approximately 100:0/20:80 or 50:50/0:100.' Justification: Olympus can offer an observation tube with FoV of 22mm only in microscope model BX63. This is available with all the leading manufacturers as well	Amended as: Observation Tube: Trinocular Observation tube with inclination angle of 15- 30 degree; field of view minimum 22mm or more. Three way light distributions of approximately 100:0/20:80 or 50:50/0:100.
3	Pg 1 Para 4	Revolving Nosepiece: Motorized nosepiece with a slot of minimum 6-7 positions with DIC slot should be provided	Microscope Stand & Nosepiece DIC slots: This is dedicated system for FISH and dedicated software is required. DIC is an observation technique which required another dedicated software to be provided on the dedicated FISH system which will make things complex.	No Change

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4	Pg 1 Para 5	<p>Eyepieces: Paired Wide field Eyepieces of 10X with minimum field of view about 25mm or better, focusable & adjustable diopter setting should be provided.</p>	<p>'Eyepieces: Paired Wide field Eyepieces of 10X with minimum field of view about 22mm or better, focusable & adjustable diopter setting should be provided.'</p> <p>Justification: Olympus can offer eyepieces with FoV of 22mm only in microscope model BX63. This is available with all the leading manufacturers as well</p>	<p>Amended as: Paired Wide field Eyepieces of 10X with minimum field of view 22mm or more, focusable & adjustable diopter setting should be provided.</p>
5	Pg 1 Para 7	<p>Objectives: Plan Apochromat 4X/5X with N.A. 0.16 or higher, Plan Apochromat 10X with N.A. 0.40 or higher, Plan Apochromat 20X with N.A. 0.75 or higher, Plan Apochromat 40X with N.A. 0.95, Plan Apochromat 60X/63 X Oil with N.A. 1.40 or higher and Plan Apochromat 100X Oil with N.A. 1.40 or higher. Objectives with higher N.A. will be preferred. DIC accessories for 20X & 40X objectives should be a standard part of the quote.</p>	<p>As per discussion in prebid</p>	<p>Amended as: Objectives: Plan Apochromat 4X/5X with N.A. 0.16 or higher, Plan Apochromat 10X with N.A. 0.40 or higher, Plan Semi Apochromat 20X (Phase) with N.A. 0.50 or higher, Plan Apochromat 40X with N.A. 0.95, Plan Apochromat 60X/63 X Oil with N.A. 1.40 or higher and Plan Apochromat 100X Oil with N.A. 1.40 or higher. Objectives with higher N.A. will be preferred. DIC accessories for 40X and phase accessories for 20X objectives should be a standard part of the quote.</p>

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6	Pg 1 Para 9	Fluorescence Attachment:Eight or more position motorized fluorescence turret with Motorized Reflected Shutter. 100 Watt-120 Watt or better pre-centered fiber coupled, 2000 Hr or better life time mercury/metal halide lamp. The light source should be connected to the microscope with a fiber to avoid direct heat transfer to the specimens.The Fluorescence unit should be fully automated with intensity and shutter control through cytogenetic software.	'Fluorescence Attachment: Eight or more position motorized fluorescence turret with Motorized Reflected Shutter. 120 Watt or better pre-centered fiber coupled, 2000 Hr or better life time mercury/metal halide lamp. The light source should be connected to the microscope with a fiber to avoid direct heat transfer to the specimens. The fluorescence unit should have automated shutter control through cytogenetic software' Justification: Since the specs have asked for a much superior 120 watt lamp, therefore, there is no point of mentioning a much inferior 100 watt lamp. This will make sure that all the bidders quote the best available 120 watt lamp only. In our case the fluorescence intensity is controlled through the built-in knob on the body of the illuminator.	Amended as: Fluorescence Attachment:Eight or more position motorized fluorescence turret with Motorized Reflected Shutter. 120 Watt or better pre-centered fiber coupled, 2000 Hr or better life time mercury/metal halide lamp. The light source should be connected to the microscope with a fiber to avoid direct heat transfer to the specimens.The Fluorescence unit should be fully automated with intensity and shutter control through cytogenetic software.
7	Pg 1 Para 11	Monochrome Camera: Minimum resolution 1.4 Megapixels- 5.0 Megapixel, 12 bit or higher, compatibleC-mount adapter	Camera: minimum 10MP or higher for better resolution as it is high resolution imagining and in FISH majority of the metaphases to be captured at 63x/100x so high resolution camera images are important as some low noise signal to be intensified .	Amended as: Minimum resolution 5.0 Megapixels or higher or better resolution camera , compatible C-mount adapter

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8	Pg 2 Para 13	<p>FISH Spot Scanning Analysis- Automated Multi-layer Imaging</p> <p>FISH Spot Scanning system should support for automated filter turret, Z-stacking, Up to 12 fluorochrome channels per image, Handles interphase with two, three or more probes, Extended focus image generation from focus image series, Spot counting facility and advanced algorithms for classification of cells based on signal with static data. Exporting 3D scanned data for external 3D analysis and visualization. Full toolset for validation of slide statistics and results. Accurate signal count even on signal clusters. Capability to analyse additional fields even after scan is finished. Automatic Image exposure and enhancement, together with the auto-conversion of image sequences at various focal planes (3D Z-Stacking). Automatic background, contrast, brightness, focus and sharpness adjustments, to enable optimal display of the faintest signals in a few seconds. Integrated quantitative signal intensity and objective analysis module. Cell or object segmentation, followed by morphology and intensity analysis to extract the exact data required. The system should support all FISH probes of different manufacturers for all types of samples (Pathology, Cytology, Haematology)</p>	<p>Spot counting – high NA, low magnification scanning and imaging for faster scanning and less bleach of signals, special keyboard for counting spots.</p> <p>'System should be able to provide classified data of signal combinations/patterns & quantitative graphical data of cell area, signal intensity & SNR'</p> <p>Justification: Adding this point will improve the capabilities of the system thereby enabling it to act as the 'first reviewer' of signal pattern analysis. Since the institute wants to procure a high end & fully automated cytogenetics workstation it becomes imperative for this system to be able to reduce human errors – which is the most important reason of buying an automated platform.</p>	<p>Amended as: FISH Spot Scanning Analysis- Automated Multi-layer Imaging</p> <p>FISH Spot Scanning system should support for automated filter turret, Z-stacking, Up to 12 fluorochrome channels per image, Handles interphase with two, three or more probes, Extended focus image generation from focus image series, Spot counting facility and advanced algorithms for classification of cells based on signal with static data.</p> <p>Added Para: Spot counting should be there with faster scanning so that signal should not bleach. Keyboard should be provided for counting spots.</p> <p>Exporting 3D scanned data for external 3D analysis and visualization. Full toolset for validation of slide statistics and results. Accurate signal count even on signal clusters. Capability to analyse additional fields even after scan is finished. Automatic Image exposure and enhancement, together with the auto-conversion of image sequences at various focal planes (3D Z-Stacking). Automatic background, contrast, brightness, focus and sharpness adjustments, to enable optimal display of the faintest signals in a few seconds. Integrated quantitative signal intensity and objective analysis module. Cell or object segmentation, followed by morphology and intensity analysis to extract the exact data required. The system should support all FISH probes of different manufacturers for all types of samples (Pathology, Cytology, Haematology)</p>

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9	Pg 2 Para 14	<p>METAPHASE FINDER</p> <ul style="list-style-type: none"> · Fully automated, walk-away operation for 8-9 slides and efficiency. · Automatically find metaphase cells on a slide, capture high-resolution images of the most suitable cells for analysis and provide a complete analysis & review toolkit · Automatic pre- scan and relocation. · Saving to database coordinates and thumbnails of scanned metaphases · Scan to the edge of slide. · Ability to scan slide by cell density or pre-defined area edge to edge. · Full toolset for validation of slide statistics and results, including full slide rescan and reanalysis. · Fast relocation to any metaphase in the gallery for review. · Automatic adjustment to any type of coverslips. 	<p>AI bases Karyotyping software, 1 sec to process metaphase to karyotype, Batch process – converts all metaphase to karyotype in one click</p>	<p>Amended as: METAPHASE FINDER</p> <ul style="list-style-type: none"> · Fully automated, walk-away operation for 8-9 slides and efficiency. · Automatically find metaphase cells on a slide, capture high-resolution images of the most suitable cells for analysis and provide a complete analysis & review toolkit · Automatic pre- scan and relocation. · Saving to database coordinates and thumbnails of scanned metaphases · Scan to the edge of slide. · Ability to scan slide by cell density or pre-defined area edge to edge. · Full toolset for validation of slide statistics and results, including full slide rescan and reanalysis. · Fast relocation to any metaphase in the gallery for review. · Automatic adjustment to any type of coverslips. <p>Added Para: AI (Artificial Intelligence) based Karyotyping Software should be provided.</p>

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1	Pg 2 Para 5	Preference to Make In India products (For bids < 200 Crore):Preference shall be given to Class 1 local supplier as defined in public procurement (Preference to Make in India), Order 2017 as amended from time to time and its subsequent Orders/Notifications issued by concerned Nodal Ministry for specific Goods/Products. The minimum local content to qualify as a Class 1 local supplier is denoted in the bid document. If the bidder wants to avail the Purchase preference, the bidder must upload a certificate from the OEM regarding the percentage of the local content and the details of locations at which the local value addition is made along with their bid, failing which no purchase preference shall be granted. In case the bid value is more than Rs 10 Crore, the declaration relating to percentage of local content shall be certified by the statutory auditor or cost auditor, if the OEM is a company and by a practicing cost accountant or a chartered accountant for OEMs other than companies as per the Public Procurement (preference to Make-in - India) order 2017 dated 04.06.2020. Only Class-I and Class-II Local suppliers as per MII order dated 4.6.2020 will be eligible to bid. Non - Local suppliers as per MII order dated 04.06.2020 are not eligible to participate. However, eligible micro and small enterprises will be allowed to participate .In case Buyer has selected Purchase preference to Micro and Small	The system intended to be quoted by us has no local content and is manufactured in countries like Japan, Israel, U.S.A., Philippines, etc. You are therefore, requested to remove this point making us eligible to participate in this tender	No change considered