Response To Pre-Bid Queries (Pre-Bid date: 24.02.2022)				
Bid Number: GEM/2022/B/1950819 Dated: 14-02-2022				
Item Name: Fish Microscope with Camera & Workstation1950819				
Sr. No.	**Buyer Specification Document Page & Para**	**TENDER SPECIFICATION**	**REPRESENTATION RECEIVED FROM THE FIRM**	**COMMITTEE RECOMMENDATION**
1	Pg 1 Para 2	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.	For such fully automated system where in majority of the work has to be one on 100x objective, FOV 25 is suggested for the better field of view and analysis, which is also available with other suppliers as well, instead of FOV 22. FOV 22 is more ok with normal light microscope. FOV: 25mm or higher for bigger field and easy analysis	No Change
2	Pg 1 Para 3	Condenser: Motorized condenser for all microscopy techniques with 8-position turret for optical elements, with motorized polarizer in/out. Polarizer is freely rotatable (360 degrees). Motorized in/out top lens	Motorized condenser: FISH only system doesn't require condenser. As FISH is the major application on the requested system, Condenser is not needed at all.	No Change
3	Pg 1 Para 4	Revolving Nosepiece: Motorized nosepiece with a slot of minimum 7 positions with DIC slot should be provided	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
4	Pg 1 Para 7	Objectives: · Plan Apochromat 4X/5X NA 0.16-or better · Plan Apochromat 10x/ NA 0.40 or better · Plan Apochromat 20x/ NA 0.80 or better (Spring) · Plan Apochromat 40x/ NA 0.95 or better (Spring) · Plan Apochromat 60x or 63x / NA 1.42 or better (Oil, Spring) · Plan Apochromat 100X/1.45 or better (Oil, spring) All objectives should be chromatic aberration corrected from 400 nm to 1000nm. Automatic change in objectives or filter turret should be recognized by the system and the system should automatically align the components.	Objectives: 60x/1.42 and 100x/1.45 are available with one vendor only, 63x/1.4 and 100x/1.4 is with all vendors.	**Amended as:** "Objectives: · Plan Apochromat 4X/5X NA 0.16-or better · Plan Apochromat 10x/ NA 0.40 or better · Plan Apochromat 20x/ NA 0.80 or better (Spring) · Plan Apochromat 40x/ NA 0.95 or better (Spring) · **Plan Apochromat 60x or 63x / NA 1.4 or better (Oil, Spring)** · **Plan Apochromat 100X/1.4 or better (Oil, spring)** **All objectives should be chromatic aberration corrected from 400 nm to 1000nm. Automatic change in objectives or filter turret should be recognized by the system and the system should automatically align the components."**

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5	Pg 1 Para 11	Monochrome Camera: · Resolution: 5 MP or higher. · Sensor Type: CMOS. · Frame Rate: 35fps or higher. · Bit depth: 12-bit or higher. · Pixel Size: At least 3.45µm X 3.45µm. · Global shutter. · Interface: USB 3.0.	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 .	No Change