

THE GEM & JEWELLERY EXPORT PROMOTION COUNCIL
3rd FLOOR, RAJASTHAN CHAMBER BHAWAN
M.I. ROAD, JAIPUR 302003

Tender No. TIES/2018-19/01: ANNEXURE 4
(Revised: 15th May 2019, Re-Tender)

TECHNICAL SPECIFICATIONS FOR GEMMOLOGICAL MICROSCOPE

Key features: Trinocular Stereozoom Gemmological Microscope with Optical and Lighting accessories. Following are the desired minimum specifications.

Feature / Item	Specification	Compliance (Yes / No)	Quoted item with part no. (If any). Please mark the item in submitted brochure.	Deviation (if any) with consequences on performance
A. Microscope optics	A.1. Trinocular stereozoom optics (Zeiss / Leica / Olympus) A.2. Apochromatic corrected Zoom optics A.3. Optics mounted on rack and pinion system A.4. Objective system magnification: up to 5x A.5. Eye piece magnification: 10x, 16x and 25x (all required) A.6. Individual diopter correction at each eye piece A.7. Eye cups for all eye pieces mentioned above A.8. Accessory lens: 0.63x and 2x A.9. C-mount video adaptor, 0.5x, 2/3" A.10. Trinocular system should allow simultaneous viewing through eyepiece and camera			
B. Digital adapter	B.1. Digital microscope adapter for Nikon SLR camera (to be adapted with D5000 type threading) for photomicrography			

	B.2. Full format sensors for C-mount adapter thread			
C. Microscope base	<p>C.1. Heavy duty microscope metal base for high stability</p> <p>C.2. In-built LED darkfield illumination in the range 5,000 – 5,500K</p> <p>C.3. Switchable to bright-field</p> <p>C.4. Electronic dimming of dark-and bright-fields</p> <p>C.3. To be supplied with iris diaphragm, stone holders (wire frame type), detachable polaroid filters set to examine the stone under crossed-polars, ring holder, diffuser plate, baffle ring, tweezer adaptor, etc</p>			
D. Lighting system	<p>D.1. Incident lighting system (external separate unit) with goosenecks, and heavy stable base and contain interchangeable items D.2 to D.10. The system should support at least two lights simultaneously.</p> <p>D.2. LED white light flood (3W; 4,000K)</p> <p>D.3. LED white light spot (3W; 4,000K)</p> <p>D.4. LED white light diffuse (3W; 4,000K)</p> <p>D.5. LED daylight flood (3W; 6,000K)</p> <p>D.6. LED daylight spot (3W; 6,000K)</p> <p>D.7. LED daylight diffuse (3W; 6,000K)</p> <p>D.8. Long wave UV 366 nm (3W)</p> <p>D.9. Pin-Pointer LED Light (6,400 K), at gooseneck, connecting to USB Port on the Base of the Microscope</p> <p>D.10. Diffuse LED Light (6,400 K), at gooseneck, connecting to USB Port on the Base of the Microscope</p>			
E. Warranty & Spares	E.1. Minimum replacement warranty for two years to be furnished on all items supplied			

	<p>E.2. Following one set of spares to be supplied with the original equipment:</p> <p>E.2.1. Iris diaphragm</p> <p>E.2.2. Detachable Polaroid filters set</p> <p>E.2.3. Stone holder (metal wire frame type)</p> <p>E.2.4. LED white light flood (3W; 4,000K)</p> <p>E.2.5. LED white light spot (3W; 4,000K)</p> <p>E.2.6. LED white light diffuse (3W; 4,000K)</p> <p>E.2.7. LED daylight flood (3W; 6,000K)</p> <p>E.2.8. LED daylight spot (3W; 6,000K)</p> <p>E.2.9. LED daylight diffuse (3W; 6,000K)</p> <p>E.2.10. Pin-Pointer LED Light (6,400 K), at gooseneck, connecting to USB Port on the Base of the Microscope</p> <p>E.2.11. Diffuse LED Light (6,400 K), at gooseneck, connecting to USB</p> <p>E.2.12. Long wave UV 366 nm (3W)</p> <p>E.2.13. Diffuser plate</p> <p>E.2.14. Tweezer Adaptor</p> <p>E.2.15. Baffle Ring</p>			
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Note:

1. Technical evaluation will be based on submitted compliance statement along with the supporting document for each parameter.
2. Attach supporting documents such as brochures, declaration, etc with the claimed specifications. The quoted items must be marked with consecutive item nos. as per the technical-cum-compliance statement.
3. The Gem & Jewellery Export Promotion Council reserves the right to relax any of the above mentioned specifications in overall evaluation, without giving any reason whatsoever.