



National Centre for Physics
Detailed specification Document

Annex- A-178

V7.9

S#	Title of the Project	Medium Power Stereo Microscopes		
		Item	Specification	A/U
1.	Medium Power Stereo Microscopes	<p>Model: Leica M125, OLYMPUS SZX16, or Equivalent model (Configured for high-precision inspection, metrology, and semiconductor component analysis.)</p> <p>Magnification Range:</p> <ul style="list-style-type: none"> At least 8× to 100× using standard optics Apochromatic CMO (Common Main Objective) optical path High-contrast imaging with minimized chromatic aberrations <p>Brand: Leica, NIKON, OLYMPUS or Equivalent</p> <p>Optical and Zoom Specifications</p> <ul style="list-style-type: none"> 6.3:1 manual zoom, zoom range 2X – 40X or better Fine focusing unit, LED ring light, mechanical stage with stage adapter <p>Eyepieces:</p> <ul style="list-style-type: none"> Wide-field 10× eyepieces, adjustable with diopter control Outer ring LED illumination 5000RL or higher, spotlight illumination <p>Mechanical and Housing Requirements</p> <ul style="list-style-type: none"> Ergonomic stand with smooth focusing control Swing arm to scan larger sample Anti-static (ESD-safe) housing, suitable for microelectronics, semiconductor work, and sensitive device handling Stable base appropriate for precision measurement and long working sessions Digital camera with software and HDMI LED display Required with all necessary auxiliary and accessories <p>Illumination System</p> <ul style="list-style-type: none"> Incident (reflected) LED illumination module with adjustable brightness Optional transmitted light base (Quote separately) Uniform, flicker-free illumination for detailed surface inspection <p>Digital Camera (required or optional with separate quotation):</p> <ul style="list-style-type: none"> Scientific-grade digital camera, minimum 5–12 MP High frame rate (≥ 30 fps) for live imaging USB 3.0 or HDMI output Compatible with Leica Application Suite (LAS X) or equivalent software <p>Motorized / Coded Components (Quotation Required Separately)</p> <ul style="list-style-type: none"> Coded Zoom System for recording zoom and magnification metadata Motorized or Coded Objective Nosepiece Motorized focus drive (optional) 	Nos	01

	<ul style="list-style-type: none"> • Motorized control accessories compatible with Leica LAS software 		
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Optional Accessories (Separate Quotation Required)

1. **Additional Objective Lenses:**
 - 0.63× objective (extended field of view)
 - 1.6× objective (high magnification applications)
2. **Digital Camera Adapters / C-mount adapters**
3. **Anti-vibration platform** for high-precision work
4. **Auxiliary lenses, polarization kits, and LED ring lights**
5. **Measurement and analysis software licenses**

Note: All the components installed should be compatible with the system and each other.

Please tick the relevant box

Installation

Testing

Commissioning

Training

Warranty requirement

Any other please specify