Technical Specification:

7	1	Polarizing Microscope with camera module	1. Polarization microscope to investigate crystalline structures and optical properties of materials with high magnification (upto 100x) working in reflected and transmitted light microscopy modes. 2. The nosepiece should have the specifications of at least 5x positions and should be centerable and encoded. 3. The usable field of view of the eyepieces should be 25 / 22 / 20 mm. 4. Microscope optics should be infinity corrected with appropriate tube length. Illumination in both reflected and transmitted modes should be Constant Color Intensity by advanced LED technology. 5. Separate LED Lamp Housing illumination for reflected and transmitted light microscopy. 6. The microscope should be enabled with illumination and contrast management. 7. Fully integrated coded conoscopy module with 1.6x magnification changer is needed.	

Technical Specification:

			8. Universal objectives with 5X, 10X 20X, 50X and 100X magnifications for Bright Field, Dark Field, polarizing imaging applications. Include long working distance objectives for 20x and 50x and 100x suitable for fluorescent imaging. 9. Digital Colour camera and imaging software: High-resolution digital colour camera with minimum 3.0 Megapixels resolution, Colour Depth : 30 bits or higher; A/D converter: 10bit or higher, Frame rate: 25frames per sec or higher, USB 3.0 connection, with C-mount 10. Betrand Lens for conoscopy 11. Possibility to upgrade for flourosence microscopy applications in future. 12. 360° rotatable polarization stage with verniers, 45° click stop position and brake. 13. The polarization microscope should have a focus drive with 25-mm stage stroke coarse and fine drive. Fine drive : 0.2 mm per turn of the knob. Coarse drive : 3.5 mm per turn of the knob with	

Technical Specification:

			motorization as an additional facility. 14. The analyzer should be 180° and 360° rotatable with the option of fixing. 15. This Equipment should have been supplied to at least 2 IIT's, IISER or NIT's or any other government research laboratories. User certificate should be produced. 16. One year warranty is required on site. 17. Please provide quotation for additional warranty. **360° polarizers for incident and transmitted light, fixed polarizer with 0°, 45°, 90° positions and lambda plate are mandatory.**	