

**TECHNICAL SPECIFICATION FOR THE INVERTED RESEARCH MICROSCOPE WITH  
HIGH N.A OBJECTIVE**

S.No	SPECIFICATION	Complied/Not Complied	Cat.Pg.No.
1	<b>Basic Unit:</b> Stable, drift-free platform with high power LED system, built in provision for providing uniform illumination throughout the field of view. Light path manual selections of Observation 100%, Left Side Port 100 %, Right Side Port 100%, and simultaneous operations for both observation & Imaging. Built-in magnification changes with 1x & 1.5x work on all camera ports and eyepieces		
2	<b>LED Illuminator:</b> High Power LED sourced with the LED source with lifetime of 20,000 hours.		
3	<b>Fine Focus:</b> Minimum Resolution should be 1 Micron.		
4	<b>Binocular tube with Eyepieces:</b> Siedentopf Binocular Eye Piece tube FOV 22/ 23mm.Eyepieces 10XPair with F.O.V.22/23 mm and Diopter adjustment facility on both the eyepieces. Eyepiece Guard, Eyepiece cap		
5	<b>Condenser:</b> Six positions turret or more with condenser lens NA $\geq$ 1.35, WD 1.9mm. Dark Field condenser adapter		
6	<b>Objective turret:</b> 6 folds or better.		
7	<b>Stage:</b> Right angle mechanical stage with handle. Universal holding frame to accept all types of specimen holder (Slide Glass, Petri Dish Microplate and Terasaki). & 96 Well Plate Holder		
8	<b>Objectives:</b> Plan Achromat 4X N.A. 0.10, W.D. 30.0 mm & 10X N.A. 0.25, W.D. 10.5 mm  Apochromat TIRF 100X Oil N.A. $\geq$ 1.49, W.D. 0.12mm, using standard immersion oil and glass coverslips.		
9	<b>Back Port Unit with Dual Deck Unit:</b> Manual turret unit 2 Nos with Back port, C- Mount adapter (2 Nos), Stage up kit with lens and Blank filter cube (2 Nos), Light Shield for protecting mercury from eye		
10	<b>Immersion Oil:</b> Type F (30 ml) and Type N (50 ml). Lens Cleaning Kit.		
11	<b>Data Back System (PC Control):</b> Minimum specifications: i5 Processor 8 GB RAM, 1 TB HDD, integrated 2 GB Graphic card, 1 DVD Writer, Mouse, Keyboard, 21" Color LED Monitor, USB2/3 Port for camera OS Windows 10 Pro (64-bit) along with UPS 600VA.		

12	<b>Metal Warm Plate:</b> Metal Plate with hole with a Temperature range: ambient – 60°C.		
13	<b>Warranty:</b> Comprehensive warranty for one year		
14	<b>Supply and Installation:</b> The price quote should include the supply and the installation at IIT, Madras		
15	<b>Catalogues and Brochures:</b> Printed catalogue and brochures in support to the technical specifications should be included with the quote.		
16	<b>Quotation:</b> Only OEM or Authorized dealer should quote with OEM / Authorized dealership certificate		
	<b>Optional:</b> Software for controlling the image acquisition and device control.		

**SIGNATURE OF BIDDER ALONG WITH  
SEAL OF THE COMPANY WITH DATE**

**(Note: It is mandatory for the bidders to provide the compliance statement in tabular column format along with catalogue page number / or make & model number (comply/not comply) for the above points with document proof as required. Failing which bidders will be technically disqualified)**