

## 1. Light microscope (Leica S9E) (1)

**Stereo Zoom microscope for filament observation**

- Zoom ratio should be 9:1 or more
- Magnification should be from 6x to 55x with 1x Apo objective and 10x Eyepiece
- 1x objective should have a working distance of 120mm or more
- 12mm or better Depth of Field with Fusion Optics and Greenough optical design and Field of View up to 37mm or better
- The maximum resolution should be 500 lp/mm or more
- The entire optical system should be Apochromatic with Greenough design
- Clickstops at 6x, 10x, 20x, 30x, 40x, 50x and 55x– inspection at specific magnification can be easily repeated
- Eyepieces pair: 10X (F.N. 23) with 35° inclinations. Interpapillary distance should be 50 –75 mm or better
- Long Focusing column with focus drive or stroke.
- High power LED light for reflected and transmitted illumination. Reflected light with oblique illumination, 4 point ring light for high brightness, 3 point arc light for oblique illumination for better contrast with service life of 25000 hours
- Transmitted light with cantered LED for contrast enhancing. LED light temperature can be 6000K colour temperature with service life of 25000 hours.
- Antistatic polymer microscope dust cover.
- At least 5 or more user's details shall be provided for the same model. Microscope details shall be available on manufacturers website with catalogue.

S. No	Items	Reference/ Example
1.	Light microscope (Leica S9E) (1)	
2.	Holey carbon coated grids (A box of 100 pieces)	Ted Pella/EMS/Agar scientific
3.	Nonenyl Succinic Anhydride (NSA) 1x450	Ted Pella Catalog no. 18301
4.	Diglycidyl Ether of Poly(propylene glycol) DER 1x250	Ted Pella Catalog no. 18310
5.	2-Dimethylaminoethanol (DMAE) 1x25	Ted Pella Catalog no- 18315
6.	4-Vinyl Cyclohexene Dioxide (ERL 4206) 1x250	Ted Pella Catalog no- 18306-422
7.	Eppendorf tubes (1.5 ml) 2 packs	
8.	Glass Petri dishes (50 pieces)	
9.	Lead Nitrate 250gms Merck	
10.	Gloves 10 Packs	
11.	Forceps	
12.	Empty Liquid Nitrogen Container of 55 litre	
13.	Refilling of Ethane gas (10 liter cylinder)	
14.	Liquid Nitrogen gas (55 liter)	
15.	Empty gas cylinder for ethane gas	
16.	Liquid Nitrogen Trolley	
17.	Empty gas cylinder for nitrogen gas 47 lit	
18.	Refilling of Nitrogen gas in 47 lit	