

# S. N. Bose National Centre for Basic Sciences

Block- JD, SECTOR – III, SALT LAKE, KOLKATA – 700106

## High resolution Transmission Electron Microscope (HRTEM) Form

User Name:

Organization

Designation:

User email & Mobile No:

Sample Description along with sample code	1)	3)
	2)	4)
No. of Samples		
Morphology & size expected		
Sample is	Magnetic <input type="checkbox"/>	Nonmagnetic <input type="checkbox"/> Biological <input type="checkbox"/> Polymer <input type="checkbox"/>
Sample is	Hazardous <input type="checkbox"/> Non-Hazardous <input type="checkbox"/>	
Sample is	Toxic <input type="checkbox"/>	Non-Toxic <input type="checkbox"/>
Nature of Sample	Nanowire <input type="checkbox"/> Nanoparticle <input type="checkbox"/> Film <input type="checkbox"/> Disc <input type="checkbox"/>	

1. If sample is powder (Grid Preparation required), Yes  NO

Note: Powder sample will be dispersed in the solvent and after ultrasonication, it will be loaded/drop casted on the TEM grid. The grid will be dried under IR lamp. The representative TEM Images will be taken for that sample. (Sample should withstand this process)

a) Medium for dispersion :

Ethanol  Methanol  Water  Iso-propyl alcohol

If other than the above mentioned solvent then please mention :

b) Ultra-sonication time for Dispersion of powder sample in above mentioned solvent :

### Analysis Modes:

External user: TEM  HRTEM  SAED  TEM-EDS

Internal user: TEM  HRTEM  SAED  TEM-EDS  STEM-EDS Line mapping  STEM-EDS area mapping  EELS  EFTEM

2. Sample other than Powder should be prepared at user end. (Ultra-microtomy, Ion Milling, polishing etc.)

User Signature

Supervisor Signature  
(Official Stamp and date)