



## Sophisticated Analytical Instrument Facility

### User Instructions

#### 1. Sample Requirement guidelines:

Bring your samples along with this requisition forms in properly sealed cover.  
The sample can be sent in the form of:

**Powder:** Amount of the sample: 1mg-5mg.

**Thin film:** Dimension of the sample: 1.5\*1.5cm<sup>2</sup> to 2.0\*2.0cm<sup>2</sup>

**Nanoparticle dispersion in a solvent:** Few drops can be deposited on a conducting smooth substrate (e.g.: doped Si, doped Tin Oxide) & dried under vacuum may be provided for FESEM Analysis.

**Moisture sensitive samples:** please bring them in a desiccator

Note: Height of the sample should be less than 1cm. Small sample height is better. For thin film sample and samples prepared on substrate, the side opposite to the side of interest should be flat to enable sample mounting. The sample should be dry to with stand high vacuum (10<sup>-5</sup> pa).

#### 2. **Imaging of magnetic sample is strongly discouraged.**

3. Samples are liable to be destroyed /disposed of after measurements and if to be returned, they have to be collected in person.
4. User must report at the FESEM lab as per the scheduled appointment (date & time). The users shall be allotted the time slots as per the availability.
5. User should be present during the analysis of his samples. If user has any specific instructions regarding the analysis, he can discuss with the operator.
6. Data will be supplied in the CD provided by the user. Only **new CDs** will be accepted for data copying.