

**X-ray Analysis**

Sl. No.	Area of Testing	Sample / Item Name	Test Parameters	Sample Requirements, if any	Testing Charges per Sample Rs	Additional Charges Rs	Description of Additional Charges	Remarks, if any
1	X-ray Fluorescence Analysis	Solid (disc form), powder (pressed into pellet form)	Qualitative elemental analysis (one element)	Disc/pellet diameter: min 15 mm, max 35 mm with flat surface	7100	NA	NA	By X-ray Fluorescence Analysis
2	Powder X-ray Diffraction Analysis	Polycrystalline materials	Diffraction pattern and 'd' values	1. particle size: 5 to 30 micron 2. Sample weight min 2g	4600	NA	NA	By powder X-ray diffractometer, toxic, hygroscopic and radioactive samples cannot be accepted.

**Surface and EPR Analysis**

3	HRTEM with EDS	Powder and Thin film on NaCl crystal	Lattice fringes, microstructures, SAED pattern, Elemental analysis etc.	Powder and thin film	11250			Provide Carbon coated Copper grid with each sample
4	Surface Analysis by SIMS	Any Conducting / Semi-conducting material	SIMS Mass spectra	Samples should be in the form of thin films or thin pellets or wafers with smooth top surface; Size of the sample: Max. 10x10x2 mm, Min. 5x5x1 mm	14000		For Quantification if standard sample is supplied by NPL	Impurity Detection in ppm level
5	Scanning Electron Microscopy (SEM)	Solid/Powder/Film on solid substrate	Surface Morphology/Grain size/Fracture/Microcrack	Sample size should be less than 10 x 10 mm	5800	NIL	NIL	Liquid samples can not be accepted
6	Energy Dispersive Spectroscopy (EDS)	Flat solid sample/Pallet/Bulk sample	Elemental Analysis	Sample size: less than 10 x 10 mm and thickness upto 10 mm	8800	NIL	NIL	Liquid samples can not be accepted
7	EPR spectrometer	Sample in Powder, thin film and liquid form at room temperature	NA	NA	6000	NA	NA	
8	Magneto Rheometer	At room temperature	NA	NA	8000	NA	NA	