



**INDIAN INSTITUTE OF TECHNOLOGY BOMBAY**  
**MATERIALS MANAGEMENT DIVISION**  
**Powai, Mumbai 400076.**

Ref. PR No : 1000054121

Rfx - 6100002860

**Instrument name:** Field Emission Gun Scanning Electron Microscope (FEG-SEM)

**Model:** JSM 7600F

**AMC:** Under AMC

**Scope of Work: AMC for FESEM JSM-7600F with EDS & WDS**

( period from 09.02.2026 to 08.08.2026 &

Period from 09.08.2026 to 08.02.2027 )

The Engineers must undertake the following checks

Sr. No.	Scope of work	Description	Technical Compliance (Yes / No)	Additional Information (if any)
1	Instrument Condition	Chamber Vacuum, pressure, overall instrument performance, instrument resolution check		
2	Electronics and earthing/ Power supply unit	Check the main voltage and cable condition, Check DC supplies, Value and stability, check all panel earthing resistance values/leakage current.		
3	Nitrogen gas /cooling water	Check the N2 gas pressure and performance of water cooling unit		
4	Rotary pump/TMP pump	Check the performance of rotary pump and Turbo Molecular Pump		
5	Vacuum sequence and level	Check the timely operating of valves, gauges and leak detection.		
6	Column and Alignment	Check column alignment and perform alignment if necessary		
7	Sample exchange chamber	Check the sample exchange chamber handle and ensure smooth insertion of samples		
8	Specimen stage	Check X,Y,Z,T and R motor performance		

9	Operation panel	Check performance of knobs, track ball and buttons		
10	PC-SEM application and PC	Instrument PC and software check		
11	Detector and other control units	Check SEI, LEI, LAGE, RBEI, SMV, AEM/PCD, PVG, CWC		
12	Energy Dispersive X ray Analysis (EDS)	Performance check and calibration, hardware and software check		
13	Wave length Dispersive X ray Analysis (WDS)	Performance check and calibration, hardware and software check		

### Service Level Agreement

### Maintenance plan for FEG SEM JSM 7600F

Sr. No.	Scope of work	Description	Technical Compliance (Yes / No)	Additional Information (if any)
1	Preventive maintenance visit	The vendor needs to provide preventive maintenance inspections and carry out repairs, calibration, adjustments, alignments and cleaning as may be necessary two times during the year of the term of this plan at reasonably spaced intervals.		
2	Emergency Service	The vendor needs to provide emergency visits in case of equipment failure. The number of emergency visits should be unlimited.		
3	Replacement Parts	During the preventive maintenance or emergency visit, if any original equipment part or consumable are required, then this part will be provided by the customer from his stock of spare parts or the customer will import the same from the manufacturer.		