

TRANSMISSION ELECTRON MICROSCOPE (TEM)

Make:

FEI, The Netherlands

Model: : Tecnai 20 G2 (FEI make)

Resolution::

- Line-1.8 Å, Point-2.40 Å
- Information limit (nm) 0.16
- Incorporated with STEM.
- Bottom mount CCD Camera (Gatan-make)
- TEM magnification range 25 x - 700 kx
- TEM point resolution 0.27 nm
- TEM line resolution (nm) 0.144

TEM Holder:

- Single tilt
- Single tilt Low background
- Double tilt
- Double tilt Low background
- STEM HAADF resolution 0.24 nm
- STEM magnification range 150 x – 230 Mx
- EDS

Detection:

- Boron to higher (EDAX-make)

Specimen stage:

- Fully computer-controlled, eucentric side-entry, high stability CompuStage

Sample Preparation:

- - Ceramic sample preparation facility (Ion milling) (BALTEC make).

