Attachment B
RFP462081- Technical Specifications

ITEM 1

LVEM 25E Base System:

- Fully self-contained and portable system on castors
- Schottky type Field Emission Gun (FEG) with automated alignment
- Integrated Ion Getter (imaging column) & enhanced Turbomolecular (airlock) Pumps
- Fully motorized aperture system
- Fully motorized stage (x, y, z) with automated coarse focus
- Computer configured with software for LVEM25E operations
- Two table mounted 24" flat panel high contrast LCD widescreen monitors
- New ergonomic work table with drawers
- Toolkit
- Certified Installation & Customer-site training
- One year standard warranty

Transmission Electron Microscope (TEM) imaging mode (25kV)

- Includes Electron Diffraction (ED)
- 1.0nm resolution; 1,300,000 x maximum magnification
- 2048 x 2048 pixel 16 bit backside illuminated sCMOS (6.5 um2 pixel size) with 1.0 e- read noise

ITEM 2

Scanning Transmission Electron Microscope (STEM) imaging modes

- Includes brightfield and Dark-Field imaging modes
- 15kV STEM (1.3nm resolution; 750,000 x maximum magnification)
- 10kV STEM (1.0nm resolution; 940,000 x maximum magnification)

ITEM 3

Scanning Electron Microscope (SEM) imaging mode

- Includes beam current measurement
- 15kV STEM (4nm resolution; 750,000 x maximum magnification)

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ITEM 4

Bruker Energy Dispersive X-Ray Spectroscopy (EDS) (Requires Tilt)

- Bruker Espirit software and online license
- Silicon Drift Detector (SDD)
- Energy Resolution Mn Ka ≤ 129eV

ITEM 5

Additional Bruker Espirit Offline License

ITEM 6

Additional Standard Sample Holder

ITEM 7

Tilt Sample Holder

- ± 20° of rotation on 1 axis

ITEM 8

Backup power supply 1500W

- Ion pump backup time ~43 hours

ITEM 9

Extended Warranty- Standard Warranty

- Including all parts and labor, shipping and technician travel

ITEM 10

Extended Warranty- Saver Warranty

- Including all parts and labor only