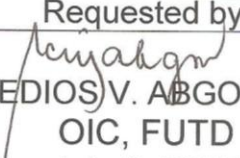


**PURCHASE REQUEST**  
**PHILIPPINE FIBER INDUSTRY DEVELOPMENT AUTHORITY**  
(Agency)

Department : PhilFIDA PR No. : N-07-150A Date : 07-08-15  
 Section : FUTD SAI No.: \_\_\_\_\_ Date : \_\_\_\_\_  
 ALOBS No.: \_\_\_\_\_ Date : \_\_\_\_\_

QTY	UNIT	DESCRIPTION	Stock No.	Estimated Cost	Estimated Total Cost
1	UNIT	<b>SCANNING ELECTRON MICROSCOPE, Tabletop, BRANDED</b> <b>Features:</b> Magnification: 15 – 60,000X Digital Zoom <b>Electron Optics</b> Detector: High Sensitive Four Segments Semiconductor BSE Detector High Sensitivity Low Vacuum SE Detector Pre-centered cartridge filament electron beam source 5kV, 15kV and EDX (min) Acceleration Voltage Condenser Lens: Permanent Magnet Lens and Electromagnetic Lens (or better) Objective Lens: Electromagnetic Lens Astigmatism Correction coil: Octa-pole Electromagnetic Coil, XY Method (or better) More than $\pm 50\mu\text{m}$ Image Shift <b>Specimen Stage</b> Traverse: X-axis 35mm, Y-axis 35mm 70mm dia. maximum specimen size 50mm dia. maximum specimen height <b>Evacuation System</b> Vacuum Control: Fully Automated Electromagnetic Valve Type Vacuum Gauge: Pirani Gauge Vacuum Time: Less Than 3mins from atmosphere pressure to be EVAC ramp on Specimen Chamber Pressure: Conductor Mode (3-5Pa) – BSED only Standard (30Pa) Charge-up Reduction Mode (50Pa) Vacuum Pump: Turbo Molecular Pump (TMP) 30 l/s Diaphragm Pump (DFP) 1 m3/h			P5,000,000.00

Purpose: For FUTD use.

	Requested by:	Approved by:
Signature Printed Name Designation Date	 REMEDIOS V. ABGONA, PhD OIC, FUTD July 8, 2015	CLARITO M. BARRON, PhD, CESO IV OIC, EXECUTIVE DIRECTOR

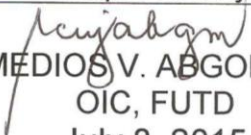
## PURCHASE REQUEST

PHILIPPINE FIBER INDUSTRY DEVELOPMENT AUTHORITY  
(Agency)

Department : PhilFIDA PR No. : N-07-NQB Date : 07-08-15  
 Section : FUTD SAI No.: : \_\_\_\_\_ Date : \_\_\_\_\_  
 ALOBS No.: : \_\_\_\_\_ Date : \_\_\_\_\_

QTY	UNIT	DESCRIPTION	Stock No.	Estimated Cost	Estimated Total Cost
XXXXX	XXXXXX	<p><b>Display</b>                      Scanning Mode (Scan Speed):                      Scan for searching the field view: 1 s/frame                      (or better)                      Image Confirmation: 10s/frame (or better)                      Image Adjustment: 0.25s/frame (or better)                      Frozen Frame, Simplified Save (or better)                      Scan Mode for Save: 40s/frame (or better)                      Auto Image Adjustment Function:                      Auto Start (Filament Auto-Heating, Auto-brightness, Auto-focus)                      Image Data Save Frame Memory: 640x480 pixel                      Simplified Save: 1280x960 pixel                      Image Format: BMP, TIFF, JPG                      Other Function: Raster Rotation                      Magnification Preset (2-steps)                      Data Display (Micron marker                      micron value, magnification, date                      and time, Image No., Comments,                      Image Mode, Observation                      Condition, Digital Zoom (2x, 4x)</p> <p><b>Safety Device</b>                      Protection against over current, built-in ground-fault                      interrupter</p> <p><b>Energy Dispersive XRay System (EDX),                      BRANDED</b>                      Energy Resolution: &lt; 135eV Mn Ka                      Energy Resolution: &lt; 154eV Cu Ka                      Detector Size: 30 mm<sup>2</sup>                      Solid Angle: 0.0186 sr                      Element Detection: B(5) to Am (95)                      Output Count Rate: 60,000 cps                      Digital Pulse Processor: 4096 Channels (5eV/channel)                      With No Limit Number of Mapping Element                      With Post Acquire Analysis                      LN2-Free, Auto ID, Point Scan, Mapping</p>	XXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX

Purpose: For FUTD use.

	Requested by:	Approved by:
Signature Printed Name Designation Date	 REMEDIOS V. ABGONA, PhD OIC, FUTD July 8, 2015	CLARITO M. BARRON, PhD, CESO IV OIC, EXECUTIVE DIRECTOR

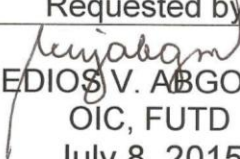
## PURCHASE REQUEST

PHILIPPINE FIBER INDUSTRY DEVELOPMENT AUTHORITY  
(Agency)

Department : PhilFIDA PR No. : N-07-VROC Date : 07-08-15  
 Section : FUTD SAI No.: \_\_\_\_\_ Date : \_\_\_\_\_  
 ALOBS No.: \_\_\_\_\_ Date : \_\_\_\_\_

QTY	UNIT	DESCRIPTION	Stock No.	Estimated Cost	Estimated Total Cost
XXXXX	XXXXXX	<p><b>With Uninterruptible Power Supply (UPS) and Auto Voltage Regulator (AVR)</b>  <b>With SEM Workstation/Software</b>  <b>With Desktop/Laptop Computer, Branded, Latest Model Specifications and Branded Printer</b>  <i>Must be in MSWindows 7 Professional 64bit and MSOffice 2013 Professional (both Licensed)</i>  <b>With One (1) Year Warranty on parts and service</b>  <b>On-Site installation and local training; and includes foreign/factory training for 2 persons on application and operation of the unit</b>  <b>With after Sales Service: Calibration and preventive maintenance of the instrument during the warranty period</b>  <b>Must have a local back-up laboratory with advanced imaging tools that can support the end-user for other future related analysis &amp; material characterization requirements</b></p> <p>XX</p>	XXXXXX	XXXXXXXXXXXXXXXXXXXX <b>TOTAL</b>	XXXXXXXXXXXXXXXXXXXX <b>P5,000,000.00</b>
		<p>Charge to FUTD Fund 2015 Capital Outlay</p>			

Purpose: For FUTD use.

	Requested by:	Approved by:
Signature Printed Name Designation Date	 REMEDIOS V. ABGONA, PhD OIC, FUTD July 8, 2015	CLARITO M. BARRON, PhD, CESO IV OIC, EXECUTIVE DIRECTOR