

SUPPLEMENTAL/BID BULLETIN

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ADDENDUM NO. 1

This Supplemental Bid Bulletin No. 1 is being issued to further clarify, modify and amend items, specifications in the Bid Documents to address key issues for the “**PROCUREMENT OF ONE (1) LOT SCANNING ELECTRON MICROSCOPE (SEM) EQUIPMENT WITH ENERGY DISPERSIVE SPECTROSCOPY (EDS), ELECTRON BACKSCATTER DIFFRACTION (EBSD) AND ACCESSORIES**”

TECHNICAL SPECIFICATIONS	
ORIGINAL	REVISION
SCANNING ELECTRON MICROSCOPE	
2) Field Emission Source	2) <u>Tungsten Filament</u>
5) Height: samples with height of 100mm...	5) Height: can accommodate samples with height of <u>80mm or better...</u>
5) Tilt: -20/ +90 degrees tilt	5) Tilt: <u>-10 (minimum)</u> / +90 degrees tilt
16) Accessories: Specimen individual stubs, multiple stubs holder, multiple sample holder for mounted samples (minimum of 1 inch diameter)	16) Accessories and <u>Consumables</u> : Specimen individual stubs, <u>45^o angled stubs, finder grid (10mm diameter),</u> multiple stubs holder, multiple sample holder for mounted samples (minimum of 1 inch diameter), <u>stub/ holder plastic storages (20 pcs), storage cabinet for stubs (2 pcs), electrically conductive tapes ½” wide (one sided and double sided adhesive, 4 pcs), carbon paint (5 bottles), conducting ink pen (5pcs),</u> <u>-- with or without pin as long as stubs/ holders are secured on the stage</u> <u>Inclusive of (60) pieces tungsten filaments, with minimum filament life of 100hrs</u> <u>Inclusive of cleaning kit</u>

16) Accessories: Wafer holders	16) Accessories: Wafer holders- <u>for 4- inch diameter wafers</u>
A. ENERGY DISPERSIVE SPECTROMETER (EDS)	
5) 100eV or better resolution	5) <u>123eV</u> or better resolution
7) (New Item)	7) <u>Detector with active area of 30mm², minimum</u>
8) (New Item)	8) <u>Assigning different colors to individual elements with overlapping peaks</u>
9) (New Item)	9) <u>EDS shall have its own computer, monitor and printer with the same specifications with item C1 and C2 (which is for SEM).</u>
10) (New Item)	10) <u>Comprehensive database containing K, L, M and N element lines for accurate identification for light element and low energy level analysis</u>
D. SPUTTER COATER	
Gold target (50 grams)	<u>(2) pieces of gold targets (pre-installed and spare)</u> (weight specs removed)
E. ROOM FIXTURES	
Glass wall and door with lock enclosing 1.5x required area for SEM-EDS-EBSD system	Glass wall and door with lock enclosing 1.5x required area for SEM-EDS-EBSD system <u>± workstation</u>
Workstation: Laboratory table, 2 chairs, filing cabinet; stainless steel material	Workstation: <u>(1 unit) Laboratory table, 5ft (L) x 3ft (W) x 3 ft (H), with bottom shelf, with leveling feet. Made of stainless steel;</u> <u>(2 units) laboratory benches or stools, stainless steel frame, adjustable seat height, with anti-slip base, padded black leather seat, footrest or foot ring, adjustable lumbar support;</u> <u>(1 unit) chair, stainless steel frame, adjustable height, adjustable backrest, back tilt, padded black leather, with arm rests, with rollers;</u> <u>(1 unit) filing cabinet, 3ft (L) x 1.5ft (W) x 5ft (H), containing 5 drawers, stainless steel material</u>
Installation of anti-vibration device, or any device of similar purpose	<u>Survey of area where the equipment shall be installed and recommendation and installation of suitable anti vibration device</u>
General Instructions:	
2) Supplier shall provide a Certificate of Warranty granting two (2) years factory warranty for parts and repairs.	2) Supplier shall provide a Certificate of Warranty granting <u>one (1) year</u> factory warranty for parts and repairs.

6) Delivery Schedule: 90 calendar days after acceptance of Notice to Proceed by the winning supplier.	6) Delivery Schedule: 120 calendar days after acceptance of Notice to Proceed by the winning supplier.
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This shall form an integral part of the Bidding Documents for the “**PROCUREMENT OF ONE (1) LOT SCANNING ELECTRON MICROSCOPE (SEM) EQUIPMENT WITH ENERGY DISPERSIVE SPECTROSCOPY (EDS), ELECTRON BACKSCATTER DIFFRACTION (EBSD) AND ACCESSORIES**”

For the guidance and information of all concerned.

Sgd.

MS. AUREA T. MOTAS

BAC Chairman

Metals Industry Research and Development Center