NATIONAL CENTRE FOR EARTH SCIENCE STUDIES

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CORRIGENDUM No.1

dt: 18/11/2026

Tender No. : **PUR-PROC/155/2026-PUR-NCESS Dt. 30/10/2026**

Description : **Field Emission Scanning Electron Microscope (FE-SEM) and its Accessories - 01 No**

Based on the Pre-Bid Meeting held on 06/11/2026, the following Technical Specifications are added/modified to the tender:

Sl.No	Specifications as per Tender **(PUR-PROC/155/2026-PUR-NCESS Dt. 30/10/2026)**	**READ AS**
1	**Page 5, Required Specification, SL No. 3, Resolution in High vacuum mode: Second Bullet Point** • Variable pressure should be available upto 300 Pa for all nonconductive samples.	Variable pressure should be available for all nonconductive samples.
2	**Page 5, Required Specification, SL No. 4, Probe Current:** • Probe current – 10-5 to 10-3 or 1 nA - 300 nA • Probe current stability should be ≤0.5% / 1 hr or ≤ 1% / 12 hrs to allow long-term EDS and EBSD measurement.	**Probe Current:** • Probe current from ≤3 pA to ≥300nA • Probe current stability should be ≤0.5% / 1 hr or ≤ 1% / 12 hrs to allow long-term EDS and EBSD measurement. • The FESEM should be equipped with an integrated direct Probe Current Measurement provision to accurately measure and monitor the probe current during the operation.
3	**Page 6, Required Specification, SL No. 12, Specimen Exchange & Vacuum System:** • Specimen exchange should be possible through Airlock/loadlock mechanism for easy and faster sample exchange. Suitable vacuum systems having Ion Getter Pump/ Sputter Ion Pump, TMP and dry scroll pump for ultra-clean and fast pumping must be provided along with primary pump. All necessary gauges and valves must be included. • Pump downtime should be 5 minutes or less with use of an Airlock/loadlock system. • Airlock compulsory	**Specimen Exchange & Vacuum System:** • Specimen exchange should be provided through Airlock mechanism for easy and faster sample exchange without venting the main chamber, ensuring minimal downtime and maintaining vacuum integrity. Suitable vacuum systems having Ion Getter Pump/ Sputter Ion Pump, TMP and dry scroll pump/RP pump for ultra-clean and fast pumping must be provided. All necessary gauges and valves must be included.

		• Pump downtime should be less than 5 minutes with or without use of an Airlock system.
4	**Page 6, Required Specification, SL No. 15, Second bullet point under Six Imaging Detectors should be offered:** • Dedicated retractable type segmented Back scattered electron detector.	• Dedicated retractable type segmented / Annular Back scattered electron detector.
5	**Page 6, Required Specification, SL No. 16, Analysis Detector Integrated EDS and EBSD system: Second Bullet Point:** The EDS detector should be LN2 free type SDD proximity sensor based having sensor area of at least 60 mm2 or more with the energy resolution on Mn-kα to be ≤127eV at count rate of 100,000cps to be guaranteed at site (published specification). The resolution on carbon should be guaranteed to be ≤ 46eV (published specification).	The EDS detector should be an LN2-free type SDD sensor based, having a sensor area of at least 60 mm2 or more, with the energy resolution on Mn-kα to be < 127 eV at a count rate of 100,000cps to be guaranteed at site (published specification). The resolution on carbon should be guaranteed to be ≤ 46eV (published specification).
6	**Page 7, Required Specification, SL No. 17, Analysis Detector.2 - EBSD Detector:** **Bullet Point 3:** • The EBSD camera should be based on C-MOS sensor with at least 1244 x 1024 pixels Resolution.	The EBSD camera should be based on C-MOS sensor with at least 1000 x 1000 pixels Resolution or more.
7	**Page 12, Required Specification, SL No. 31, General Terms and Conditions: Bullet Point 10** • Payment: Letter of Credit (LC): 70% of the payment will be released upon shipment, with the remaining 30% after completion of satisfactory installation, commissioning, demonstration of the whole system, after imparting training and upon receipt of Bank Guarantee for 3-5% of total Order value towards performance security to be valid for till warranty period from the date of installation.	Payment: Letter of Credit (LC): 90% of the payment will be released upon shipment, with the remaining 10% after completion of satisfactory installation, commissioning, demonstration of the whole system, after imparting training and upon receipt of Bank Guarantee for 3-5% of total Order value towards performance security to be valid for till warranty period from the date of installation.

There is no change in other terms and conditions.

Yours sincerely,

Sd/-
Deputy Manager

Digitally signed by
Lavanya G
Date: 18-11-2026
12:30:05

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