



21.03.2025

Minutes of Pre-Bid Meeting

Tender No	IIITDMK/24-25/SP/FESEM/032 dated 20.02.2025
Brief Description of Tender	Supply, Installation & Commissioning of Field Emission Scanning Electron Microscopy (FESEM) along with integrated Electron Backscatter Diffraction (EBSD)-Energy Dispersive Spectroscopy (EDS)
Date and Time of Pre-bid meeting	5 th March 2025, 3:00 PM (IST) in hybrid mode

1. At the outset, the committee welcomed the representative of the Prospective Bidders and briefed the scope and salient requirements of the tender
2. The following queries were raised by the bidders during the meeting:

S. No	Original Tender Specs	Clarification/ query received	Response by the Institute
1	In S. No 12, User Interface: Keyboard, Mouse, Control Panel with multifunction for the control and adjustment of frequently used SEM parameters, Manual Joystick control for stage axis	Requested to revise the stage axis as Joystick or Trackball control	<u>Yes, changed specification as under:</u> Keyboard, Mouse, Control Panel with multifunction for the control and adjustment of frequently used SEM parameters, Manual Joystick or Trackball control for the stage axis.
2	In S. No 16, Vacuum System, point i): Suitable vacuum system having Turbo (or higher vacuum) & Rotary pumps ii) The SEM will have a fully automatic control of its vacuum system and the high vacuum in the chamber has to be lower than 1.0×10^{-4} Pa.	Requested to revise as oil-free pumping vacuum system	<u>Specification modified as under:</u> i) Suitable vacuum of at least 10^{-5} Pa or better with Turbo pump. ii) The SEM will have a fully automatic control of its vacuum system.
3	In S. No 17, Accessories point v): Joystick for stage motor control	Requested to revise the stage motor control as 'Joystick or Trackball control' in S. No 17, Accessories point v)	<u>Yes, changed specification is as follows:</u> Joystick or Trackball for stage motor control
4	In S. No 19, Integrated EBSD-EDS system, point vi-b): The EDS system should be capable of identifying the	Requested to revise the maximum identifying element to Americium (Am) instead of Californium (Cf)	<u>Yes, changed specification is as follows:</u> The EDS system should be capable of identifying the

	elements ranging from Carbon (C) to Californium (Cf).		elements ranging from Carbon (C) to Americium (Am).
5	In S. No 20, Sample Preparation, point ii): The sputter coater should be complete with an automatic oil-free vacuum system consisting of RP/TMP (air-cooled) backed by a roughing pump and thickness monitor.	Requested to revise it as oil-free vacuum system or clean vacuum system for sputter coater	<u>Yes, changed specification is as follows:</u> The sputter coater should provide a vacuum of at least 20 Pa or better along with a thickness monitor.
6	In S. No 21, Spares & Consumables, point i): Two numbers of spare FEG guns to be delivered based on user request (since these have limited shelf-life).	Suggested to remove the 'two numbers of spare FEG guns', since already included the same item in S. No 25) also with 5 years comprehensive warranty	Yes, the specification point i) in S. No. 21, Spares & Consumables stands deleted.
7	In S. No 1, Resolution i): $\leq 0.7 \text{ nm @ } 15.0 \text{ kV-}20.0 \text{ kV}$	Requested to revise the resolution as $0.5 \text{ nm @ } 15.0 \text{ kV-}20.0 \text{ kV}$	No. Not considered, the specification remains the same
8	In S. No 1, Resolution i): $\leq 0.7 \text{ nm @ } 15.0 \text{ kV-}20.0 \text{ kV}$	Requested to revise the resolution as $\leq 0.9 \text{ nm @ } 15.0 \text{ kV-}20.0 \text{ kV}$	No. Not considered, the specification remains the same
9	In S. No 7, Specimen stage: X = 100 mm or more Y = 100 mm or more Z = 50 mm or more Tilt= $\leq 0^\circ$ to $\geq 70^\circ$ R= 360° continuous The stage design has to enable mounting of other accessories e.g. Peltier cooling device, tensile module, etc.	Requested to revise the specimen stage as follows: X = 110 mm or more Y = 110 mm or more Z = 50 mm or more 5-axis motorized eucentric stage, 105° tilt range Maximum sample weight: 5 kg in un-tilted position	No. Not considered, the specification remains the same
10	In S. No 7, Specimen stage: X = 100 mm or more Y = 100 mm or more Z = 50 mm or more Tilt= $\leq 0^\circ$ to $\geq 70^\circ$ R= 360° continuous The stage design has to enable mounting of other accessories e.g. Peltier cooling device, tensile module, etc.	Requested to include the maximum mass of the specimen should be $\geq 2 \text{ kg}$	No. Not considered, the specification remains the same
11	In S. No 8, Electron optical column, point iii): High-resolution imaging of ferromagnetic steel @ WD = 3 mm; AV =1 kV @ 100,000× Mag. must be possible.	Requested to include 'compound lens' of ferromagnetic steel for high-resolution imaging	No. Not considered, the specification remains the same
12	In S. No 16, Vacuum system, point iii):	Requested to revise the variable pressure from 10 pa to '133 pa'	No. Not considered, the specification remains the same

	It should have variable pressure (from 10 Pa to 300 Pa) controller mainly for biological samples.		
13	In S. No 19, Integrated EBSD-EDS system: Included the make as "Oxford/Bruker/EDAX"	Requested to include the 'Thermo fisher' make along with Oxford/ Bruker/ EDAX	No. Not considered, the specification remains the same
14	In S. No 19, Integrated EBSD-EDS system, point iii-e): "ICDD, ICSD" for complete crystal structure file library	Requested to revise as 'ICDD or ICSD' for complete crystal structure file library	No. Not considered, the specification remains the same
15	In S. No 19, Integrated EBSD-EDS system, point vi): EDS	Requested to include 'EDS detector should be motorized'	No. Not considered, the specification remains the same
16	Warranty (clause 25 Para 2)	Whether, the price should be quoted separately for comprehensive maintenance package of 05 years (Post warranty period)	The Clause 25 para (1) remains same. The clause 25 para (2), Comprehensive maintenance package (post warranty) stands modified to Annual maintenance Charges (AMC) for 05 years and needs to be quoted separately.
17	BOQ list	BOQ should have two lines.	Yes. One for 'main item' and the other for 'third party item (Integrated EBSD-EDS system)' will be enabled. However, the L1 should be from the overall price.
18	Due date of submission of tender	Due date of submission may be extended.	Yes. The Date of submission of tender extended till 10.00 AM (IST), 16th April, 2025.

- These minutes of pre-bid meeting shall form the part of bid document/Agreement.
- Rest of the terms and conditions and specifications of the bid document shall continue to remain same.
- The above amendments/ clarifications are issued for the information for all the intending bidders.
- The submission of bid by the firm shall be construed to be in conformity to the bid document and amendments/ clarifications given above.
- The BOQ stands modified accordingly.

3. The other terms & conditions of the notice issued on our IIITDM Kancheepuram website www.iiitdm.ac.in and CPP portal will remain unchanged. No more correspondence in this regard will be entertained. All the Prospective Bidders are required to take cognizance of the proceedings of the Pre-Bid Conference before submitting their bids as stipulated in the Bidding Documents.

4. The due date of submission of tender is extended up to **10.00 AM (IST), 16th April, 2025.**

Indenter / PI

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Registrar

कुलसचिव / Registrar

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