Recommendation of TSC on

Pre-bid meeting for procurement, Installation & Commissioning of "Multichannel Potentiostat and Galvanostat workstation with EQCM Module and SERS laser accessories" Venue: Saranjamshala, CSIR-AMPRI, Bhopal Date: 27-02-2025 Time: 11.00 AM onward

A Prebid meeting was scheduled for 27-02-2025, from 11:00 AM onwards. The following parties participated in the Prebid meeting.

- Mr. Vinay Tiwari and Mr. Uday Patekar are representatives from Metrohm, (i) India.
- Mr. Avinash Chandak, GM, Technos Instruments, emailed dated Feb 27, (ii) 2025, 6:22 AM, with non-technical queries regarding payment and delivery terms, and they do not have any queries on the requested technical specifications.

After detailed technical discussion, the following minor changes in the technical specification of the tender documents are made.

Sr. No.	Tendered specification	Revised tendered specification	Reason for revision	
1	Multichannel Potentiosta	Multichannel Potentiostat/Galvanostat		
	(iv) Maximum current:	Maximum current	More generalized	
	± 0.5 A or higher	± 0.4 A or higher		
	(vi) Maximum number of	Minimum 2 working	For further	
	channels:	channels or more	upgradation	
	Minimum 2 channel or			
	better			
	(vii) Potential accuracy:	± 0.2% or better	More generalized	
	± 0.1% or better			
	(viii) Measured Current	± 0.2% of current	More generalized	
	accuracy ± 0.05%	range or better		
2	SERS instrument	SERS instrument (in-situ)	For inclusive performance	
	Excitation Laser:	Excitation Laser:		
	i. 532nm 100mW Diode	i. 532nm with at	As per discussion	
	Laser	least 40mW Diode	in the committee,	
	ii. 785nm 300mW Diode	Laser	changes in the	
	Laser	ii. 785nm with at	specification do	
		least 300mW Diode	not affect the end	
		Laser	use requirement of	
			the product.	
	iii. Software controlled	Software controlled	As per discussion	
	power variation at an	power variation	in the committee,	
	interval of 1%		changes in the	
			specification do	
			not affect the end	
			use requirement of	
			the product.	

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Fiber Optic Probe	Fiber Optic Probe: (in-situ integrated with electrochemical)	Better performance
i. Dedicated fiber optic probe for 532nm and 785nm lasers	Dedicated fiber optic probe for 532 nm and 785 nm lasers	As per discussion in the committee, changes in the specification do not affect the end use requirement of the product.
iii. 200 μm Raman Signal delivery fiber	200 μm Raman Signal delivery fiber or better	More generalized
iv. Standalone Probe Focus: 7.5mm	Standalone Probe Focus: 5mm or higher	Can handle less Sample distance
Grating:	-	
i. 1200 lines/mm grating blazed at 750nm should be provided, which will be added to the existing spectrometer	i. 1200 lines/mm grating or better	More generalized
Upright Optical Microscope:	Upright or top- bottom Optical	More generalized
	Microscope:	
i. x10, x20, x50 LWD	Microscope: x10, x20, x50 Objective lens	Similar specifications
i. x10, x20, x50 LWD Objective lens ii. Halogen Illumination	Microscope: x10, x20, x50 Objective lens Halogen Illumination or LED	Similar specifications Any one source is required
 i. x10, x20, x50 LWD Objective lens ii. Halogen Illumination iii. Transmitted and Reflected Illumination modes 	Microscope: x10, x20, x50 Objective lens Halogen Illumination or LED Transmitted or Reflected Illumination modes	Similar specifications Any one source is required Anyone is required
 i. x10, x20, x50 LWD Objective lens ii. Halogen Illumination iii. Transmitted and Reflected Illumination modes Heating/Cooling Stage: 	Microscope: x10, x20, x50 Objective lens Halogen Illumination or LED Transmitted or Reflected Illumination modes Integrated Stage for	Similar specifications Any one source is required Anyone is required Heating/Cooling:
i. x10, x20, x50 LWD Objective lens ii. Halogen Illumination iii. Transmitted and Reflected Illumination modes Heating/Cooling Stage: -190 to 600 degrees Centigrade to be integrated to above system for Low temperature and High Temperature Raman/PL application.	Microscope: x10, x20, x50 Objective lens Halogen Illumination or LED Transmitted or Reflected Illumination modes Integrated Stage for -190 to 600 degrees Celsius for Low temperature and High Temperature Raman/PL application.	Similar specifications Any one source is required Anyone is required Heating/Cooling: As per discussion in the committee, changes in the specification do not affect the end use requirement of the product.
 i. x10, x20, x50 LWD Objective lens ii. Halogen Illumination iii. Transmitted and Reflected Illumination modes Heating/Cooling Stage: -190 to 600 degrees Centigrade to be integrated to above system for Low temperature and High Temperature Raman/PL application. 	Microscope: x10, x20, x50 Objective lens Halogen Illumination or LED Transmitted or Reflected Illumination modes Integrated Stage for -190 to 600 degrees Celsius for Low temperature and High Temperature Raman/PL application.	Similar specifications Any one source is required Anyone is required Heating/Cooling: As per discussion in the committee, changes in the specification do not affect the end use requirement of the product.

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ii. Offered System must be attachable from Hardware and Software point with setup at CSIR-AMPRI Minor changes to make it more generalized iii. Resolution: 0.75 cm-1/pixel with 785nm excitation with 1200 lines grating. 0.75 cm-1/pixel with 532nm excitation with 1200 lines grating. 0.75 cm-1/pixel with 532nm excitation with 1200 lines grating iii. Resolution: 0.75 cm-1/pixel with acceptable because this is an grating. 0.75 cm-1/pixel with 532nm excitation with 1200 lines grating iii. Resolution: 0.75 cm-1/pixel with 320 lines inportant iv. Gratings are mounted on a high precision motorized turret controlled by software assurements: 200 to 3200 cm-1 Northold from the controlled by inportant grating Spectral Range of Raman measurements: 200 to 3200 cm-1 Spectral Range of Raman measurements: 200 to 3200 cm-1 Similar specifications iii. SNR is 100,000: 1 ii. SNR is 60,000 to 100,000: 1 Lower to higher 100,000. 1 Change is not acceptable because this is an important grating iv. Pixel Size: 2000 x 256, 15 x 15 um iii. TE Cooling: -60 C iii. SNR is 60,000 to 100,000: 1 Change is not acceptable because this is an important grating iii. TE Cooling: -60 C iii. TE cooling: -60 C iii. SNR is 60,000 to 100,000: 1 Change is not acceptable because this is an important grating iii. TE cooling: -60 C change is not acceptable because this is an important grating iii. TE cooling: -60 C iii.					
iii. Resolution: 0.75 cm-1/pixel with 320m mexcitation with 1200 lines grating, 0.75 cm-1/pixel with 532m excitation with 1200 lines grating, 0.75 cm-1/pixel with for 0.0000: 1 ii. BI		ii. Offered System must be attachable from Hardware and Software point with Confocal Micro Raman setup at CSIR-AMPRI	ii. Offered System must be attachable from Hardware and Software point with Confocal Micro Raman setup	Minor changes to make it more generalized	
iv. Gratings are mounted on a high precision motorized turret controlled by software Spectral Range of Raman measurements: 200 to 3200 cm-1 iv. Grating is mounted on a high precision motorized turret controlled by software Spectral Range of Raman measurements: 200 to 3200 cm-1 Change is not acceptable because this is an important parameter for R&D work Detector i. BI CCD with low noise i. BI CCD/CCD with low noise Similar specifications ii. SNR is 100,000: 1 ii. SNR is 60,000 to 100,000: 1 Lower to higher full range iii. TE Cooling: -60 C iii. TE Cooling: -60 °C or better Change is not acceptable because this is an important parameter for R&D work iv. Pixel Size: 2000 x 256, 15 x 15 um iv. Pixel Size: 15 x 15 um or better with 512 x 256 resolution or better Lower to higher complete range 3 Electrochemical Quartz Crystal Microbalance module ii) Operational Frequency range: 4 MHz - 160 MHz or higher iii) Frequency accuracy: ± 0.5Hz or better ii) Operational frequency range: 4 MHz - 160 MHz or better As per discussion in the specification do not affect the end accuracy: ± 1 Hz or better 3 Electrochemical Quartz or higher iii) Frequency accuracy: ± 0.5Hz or better iii) Frequency accuracy: ± 1 Hz or better in the committee, changes in the specification do not affect the end accuracy: ± 1 Hz or better in affect the end accuracy: ± 1 Hz or better		iii. Resolution: 0.75 cm- 1/pixel with 785nm excitation with 1200 lines grating, 0.75 cm-1/pixel with 532nm excitation with 1800 lines grating	iii. Resolution: 0.75 cm-1/pixel with 785nm excitation with 1200 lines grating, 0.75 cm- 1/pixel with 532nm excitation with 1800 lines grating	Change is not acceptable because this is an important parameter for R&D work	
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iv. Pixel Size: 2000 x 256, 15 x 15 umiv. Pixel Size: 15 x 15 um or better with 512 x 256 resolution or betterLower to higher complete range3Electrochemical Quartz Crystal Microbalance moduleNo Change nm3Electrochemical Quartz Crystal Microbalance module ii) Operational Frequency range: 4 MHz – 160 MHz or higher iii) Frequency accuracy: ± 0.5Hz or betterii) Operational Frequency accuracy: ± uAs per discussion in the committee, changes in the specification do not affect the end use requirement of the product.aMathematical Quartz Crystal Microbalance module3Image: 4 MHz – 160 MHz or higher iii) Frequency accuracy: ± 0.5Hz or betterNo Change iii) Operational Frequency range: 4 mutz – 160 MHz or better iii) Frequency accuracy: ± 1 Hz or betterAs per discussion in the committee, changes in the specification do not affect the end use requirement of the product.Image: 202/001Mathematical Quartz Crystal Microbalance module3Image: 4 MHz – 160 MHz or higher iii) Frequency accuracy: ± 1 Hz or betterImage: 4 MHz – 160 MHz or betterFrequency accuracy: ± 1 Hz or betterImage: 4 MHz or betterImage: 4 MHz or betterImage: 4 MHz or betterFrequency accuracy: ± 1 Hz or betterImage: 4 MHz or betterImage: 4 MHz or better <t< td=""><th></th><td>iii. TE Cooling: -60 C</td><td>iii. TE Cooling: -60 °C or better</td><td>Change is not acceptable because this is an important parameter for R&D work</td></t<>		iii. TE Cooling: -60 C	iii. TE Cooling: -60 °C or better	Change is not acceptable because this is an important parameter for R&D work	
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3 Electrochemical Quartz Crystal Microbalance module ii) Operational Frequency range: 4 MHz – 160 MHz or higher iii) Operational Frequency range: 4 MHz – 160 MHz or higher iii) Frequency accuracy: ± 0.5Hz or better 0.5Hz or better iii) Frequency accuracy: ± 1 Hz or better iii) As per discussion in the committee, changes in the specification do not affect the end use requirement of better iii) As per discussion iiii) Frequency accuracy: ± 1 Hz or better iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii		v. Range: 200-1100 nm	v. Range: 200-1100 nm	No Change	
ii) Operational Frequency range: 4 MHz – 160 MHz or higher iii) Frequency accuracy: \pm 0.5Hz or betterii) Operational Frequency range: 4 MHz – 160 MHz or better iii) Frequency accuracy: \pm 1 Hz or betterAs per discussion in the committee, changes in the specification do not affect the end use requirement of 	3	Electrochemical Quartz Crystal Microbalance module			
$\frac{1}{27} \frac{1}{27} \frac$		 ii) Operational Frequency range: 4 MHz – 160 MHz or higher iii) Frequency accuracy: ± 0.5Hz or better 	 ii) Operational Frequency range: 4 MHz – 160 MHz or better iii) Frequency accuracy: ± 1 Hz or better 	As per discussion in the committee, changes in the specification do not affect the end use requirement of the product.	
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4	EIS module (2 units)		
	iii. AC amplitude range: 1 mV to 900 mV rms	AC amplitude range: 1 mV to 900 mV rms or compatible	As per discussion in the committee, changes in the specification do not affect the end use requirement of the product.

We shall abide by the Code of Integrity and Conflict of Interest for Public Procurement as per para 3.2.1 of CSIR Manual 2019.

Dr. Raju Khan

Indenter

Dr. Prabhat K

Baghel, Member

Dr. Sandeep

Singhai, Member

12025 102 27 Dr Archana Singh

Domain Expert

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Dr. (Er) Manish Mudgal Chairman

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After Prebid Meeting Revised Specifications

Multichannel Potentiostat & Galvanostat Workstation with EQCM Module and SERS Laser Accessories

1. Multichannel Potentiostat/Galvanostat

- i. Potential range
- ii. Electrode Configuration
- Compliance voltage range ± 8 V or better iii.
- Maximum current iv.
- Current ranges ν.
- Maximum number of channels Minimum 2 channels or higher vi.
- Potential accuracy vii.
- Measured Current accuracy viii.
- Potential resolution ix.
- 2. SERS instrument (in-situ) Excitation Laser:
- 532nm with at least 40mW Diode Laser i.
- 785nm with at least 300mW Diode Laser ii.
- Software controlled power variation iii.

Fiber Optic Probe: (in-situ integrated with electrochemical)

- i. Dedicated fiber optic probe for 532nm and 785nm lasers
- ii. 100 µm Laser delivery fiber
- iii. 200 μm Raman Signal delivery fiber or better
- iv. Standalone Probe Focus: 5mm or higher
- v. Optical density of Filters: 6 or more

Grating:

1200 lines/mm grating or better

Upright or TOP/Bottom Optical Microscope:

- i. x10, x20, x50 Objective lens
- ii. Halogen Illumination or LED
- iii. Transmitted or Reflected Illumination modes
- iv. Fiber optic probe must be integrated with the microscope

Integrated Stage for Heating/Cooling:

i. -190 to 600 degrees Celsius for Low temperature and High Temperature Raman/PL application.

Upgradation:

- Option to have Raman Imaging feature, and Option for upgradation of i. current ranges and number of channels
- Offered System must be attachable from Hardware and Software point II. with Confocal Micro Raman setup with the below specification:

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- -6 V to 6 V or higher
- 2,3 or higher
- ± 0.4 A or higher

100 nA to 400 mA or better

- + 0.2 or better
- ± 0.2% of current range or better
- 3 µV (gain 100) or better

iii. Resolution:

- 0.75m⁻¹/pixel with 785 nm excitation with 1200 lines grating, 0.75m⁻¹/pixel with 532 nm excitation with 1800 lines grating iv. Grating is mounted on a high precision motorized turret controlled by
- Spectral Range of Raman measurements: 200 to 3200 cm⁻¹ ٧.
- EC-SERS cells (2 or more), compatible connector integrated with vi.
- Quartz cuvette, with PTFE lid and cuvette holder Platinum mesh electrode as the working electrode, a platinum wire vii. electrode as the Counter electrode, a silver/silver chloride in KCI 3M electrode as the reference electrode.

Detector

- i. BI CCD/CCD with low noise
- ii. SNR is 60,000 to 100,000: 1
- TE Cooling: -60 °C or better iii.
- Pixel Size: 15 x 15 um or better with 512 x 256 resolution or better iv. v.
- Range: 200-1100 nm

3. Electrochemical Quartz Crystal Microbalance module

- i) Number of Cell Units:
- ii) Operational Frequency range:
- iii) Frequency accuracy:
- iv) Frequency resolution:

- 4 MHz 160 MHz or better ± 1Hz or better
- 0.1 Hz or better

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v) A complete EQCM kit with EQCM Module, EQCM working electrode, EQCM counter electrode, EQCM reference electrode

4. EIS module (2 units)

- i) Hardware/software (EIS):
- ii) Frequency range:

- Potentiostatic/Galvanostatic control
- iii) AC amplitude range:
- 10 µHz 1 MHz or better
- 1 mV to 900 mV rms or compatible
- iv) Data presentation: Nyquist and Bode Plot, Mott-Schottky, Data analysis, electrical circuit analysis and data fitting
- v) It should be supplied with powerful fit and simulation software for the analysis of impedance data.

5. Electrodes Accessories

- i) 100 SERS substrate and 500 carbon SPE, 100 multi-WE carbon SPE with suitable connectors should be provided.
- ii) Glassy carbon electrodes (3 unit), Platinum wire electrodes (10 cm, 3 unit), Ag/AgCl reference electrode (3 unit) with suitable polishing and cleaning kit.
- 6. Electrochemical cell vials of various volumes (ranging in 5-20 mL volume) with suitable stand and stable connections.
- 7. Warranty of 2 years (AMC of 2 years to be mentioned).

8. High-performance workstation with specifications & warranty of 2 years:

- i. Processor (CPU), 2 units
 - a. Type: High-performance multi-core processor (Intel)

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- b. Intel Core i7/i9 or better with clock speed: 3.0 GHz or higher,
- c. Graphics Processing Unit (GPU): NVIDIA RTX 4080 or higher with memory of 8GB VRAM or higher for graphical applications and simulations
- d. Memory (RAM): with capacity of 64GB or more and speed DDR5

ii. Storage, 2 units

- a. Primary storage (for OS and active applications): NVMe SSD with 1TB or more of storage
- b. Secondary storage (for data storage, backup, and long-term projects): 1TB or more SATA SSD
- c. Motherboard compatible with above hardware and software support having thunderbolt port or USB 3.1, multiple USB 3.0, USB-C ports, and networking wired gigabit ethernet (at least 1GbE, 10GbE preferred for large data transfers), wireless: Wi-Fi 6 (802.11ax) for wireless connectivity,
- d. Power Supply Unit (PSU) with wattage of 750W to 1000W, efficiency of 80 Plus Platinum or Gold efficiency rating, and in-build cooling system
- Data Acquisition and Control Interface iii.
 - a. Interface: Ensure the workstation has support for specialized electrochemical equipment
- **Operating System** iv.
 - a. Windows 11 Pro or higher
 - b. Genuine MS office software and statistical analysis drivers.
- Software Requirements ۷.
 - a. Origin Lab/Sigmaplot for data visualization and analysis

Peripheral Support, 2 units vi.

- a. Monitors: Dual monitors 32 inch or higher (preferably 4K or ultrawide for multitasking and data visualization)
- b. Keyboard and Mouse: wireless, ergonomic, responsive
- 9. A printer automatic duplex laser printer, scanner, copier, connectivity of USB, Ethernet, Wi-Fi, Cloud and a standard warranty.
- 10. Suitable UPS (minimum 2 KV or higher) for stable operation of the instrument.

<u>फ़ाइल क्र</u>.: PUR/EQP/142(2024-25)

चिषय :Supply, Installation & Commissioning of Multichannel Potentiostat and Galvanostat workstation with EQCM Module and SERS laser accessories.

S/no	Queries	Tender's reference	Response
01.	Payment terms: 100% payment via inland LC option with 90% on shipment delivery and 10% on installation and training.	Special conditions of contract (SCC) GCC 2.22.1	If required (depending on the merits of the case), 100 % payment through inland LC after Successfully supply installation and commissioning of equipment and after submission of 05% PBG.
02.	Delivery Date: At least 03 months from the date of PO.	Chapter 3 Schedule of Requirement	Delivery date is to be mentioned by the supplier under the schedule of requirement of Chapter 3

Sd/-भंडार एवं क्रय अधिकारी Stores and Purchase Officer CSIR-AMPRI, Bhopal.