

FORM TO BE FILLED BY IO WHILE CONVENING PRE-BID MEETING OF TSC.**File No. 14-VI/NS(1176-GTE)25-PB****Date: 13/01/2026****Pre-bid Meeting (To be typed clearly by the I/O)**

Name of Indentor. Dr Nidhi Singh

Indent No. PR1031222025 Date: 22/09/2025

Item Description Precision Voltmeter (DMM)

No. of Budgetary Quotes Two

(1) A pre-bid meeting of TSC was held on 13/01/2026.

(2) Following queries were raised by participating Bidders:

Name of the Firm	Queries Raised	Remarks, if any
Agmatel India Private Limited	Details about the accessories was asked by the vendor	All the accessories required for the proper functioning of the Precision Voltmeter (DMM) should be supplied.

Indentor's recommendation

1. The comments, as received from bidders during PBC, and our response is as follows:

Tender Specification and its number		Comment of bidder	Response of Indentor (Accepted/ Not accepted)	Revised specification (If any)	Justification for non-acceptance
Quantity	4	NA	NA	NA	NA
Resolution Digit	8.5 digits	NA	NA	NA	NA
Measurement Functions	DC Voltage, AC Voltage, DC Current, AC Current, Resistance, Frequency	NA	NA	NA	NA
DC Voltage Range	Min.: ≤ 100 mV Max.: ≥ 1000 V Resolution at 100 mV: 10 nV or Better Accuracy at 100 mV: 15 ppm/year or better	NA	NA	NA	NA

AC voltage Range	Min.: ≤ 10 mV Max.: ≥ 1000 V 1 Hz-10 MHz Resolution at 10 mV: 10 nV or Better	NA	NA	NA	NA
DC Current Range	Min.: ≤ 10 μA Max.: ≥ 1 A Resolution: 1 pA or Better	NA	NA	NA	NA
AC Current Range	Min.: ≤ 100 μA Max.: ≥ 1 A Resolution: 100 pA or Better	NA	NA	NA	NA
Digitize V Range	Min.: ≤ 100 mV Max.: ≥ 1000 V	NA	NA	NA	NA
Resistance Range	Min.: ≤ 10 Ω Max.: ≥ 1 GΩ Resolution: 10 μΩ or Better	NA	NA	NA	NA
Frequency Measurement	Voltage input: Min.: ≤ 1 Hz Voltage input: Max.: ≥ 10 MHz Current input: Min.: ≤ 1 Hz Current input: Max.: ≥ 100 kHz	NA	NA	NA	NA
Interfaces	Any standard interface e.g. GPIB/RS-232 etc	NA	NA	NA	NA
Warranty	1 year from the date of installation and commissioning.	NA	NA	NA	NA
Ratio difference, Deviation Ohms, Voltage should be present	NA	NA	NA	NA	NA
All the necessary power cords and standard relevant accessories must be provided	NA	NA	NA	NA	NA
All the electrical connections should meet Indian Electrical Standards i.e. Single phase, 220-240 V AC @ 50 Hz.	NA	NA	NA	NA	NA
The supplier should demonstrate all the features and capabilities of the Precision Voltmeter (DMM) at CSIR-NPL.	NA	NA	NA	NA	NA
Traceable Calibration certificate must be provided	NA	NA	NA	NA	NA
Delivery should be made at CSIR-NPL	NA	NA	NA	NA	NA

Final recommended specifications are as attached at Annexure 1 and signed by I/O:

Corrigendum to Tender may be issued/ may not be issued.

Recommended Revised Date of Tender submission (if any) is NA

The specifications are generic and broad based.

Submitted to TSC for necessary approvals.

FORM TO BE USED BY TSC FOR FINALISING PRE-BID MINUTES

File No. 14-VI/NS(1176-GTE)25-PB

Date: 13/01/2026

TSC Minutes (To be typed clearly by the I/O)

Based on the Pre-bid meeting and recommendation of I/O, following changes have been made in the specifications:

Original Specifications		Final Specifications	
Quantity	4	Quantity	4
Resolution Digit	8.5 digits	Resolution Digit	8.5 digits
Measurement Functions	DC Voltage, AC Voltage, DC Current, AC Current, Resistance, Frequency	Measurement Functions	DC Voltage, AC Voltage, DC Current, AC Current, Resistance, Frequency
DC Voltage Range	Min.: \leq 100 mV Max.: \geq 1000 V Resolution at 100 mV: 10 nV or Better Accuracy at 100 mV: 15 ppm/year or better	DC Voltage Range	Min.: \leq 100 mV Max.: \geq 1000 V Resolution at 100 mV: 10 nV or Better Accuracy at 100 mV: 15 ppm/year or better
AC voltage Range	Min.: \leq 10 mV Max.: \geq 1000 V 1 Hz-10 MHz Resolution at 10 mV: 10 nV or Better	AC voltage Range	Min.: \leq 10 mV Max.: \geq 1000 V 1 Hz-10 MHz Resolution at 10 mV: 10 nV or Better
DC Current Range	Min.: \leq 10 μ A Max.: \geq 1 A Resolution: 1 pA or Better	DC Current Range	Min.: \leq 10 μ A Max.: \geq 1 A Resolution: 1 pA or Better
AC Current Range	Min.: \leq 100 μ A Max.: \geq 1 A Resolution: 100 pA or Better	AC Current Range	Min.: \leq 100 μ A Max.: \geq 1 A Resolution: 100 pA or Better
Digitize V Range	Min.: \leq 100 mV Max.: \geq 1000 V	Digitize V Range	Min.: \leq 100 mV Max.: \geq 1000 V
Resistance Range	Min.: \leq 10 Ω Max.: \geq 1 G Ω Resolution: 10 μ Ω or Better	Resistance Range	Min.: \leq 10 Ω Max.: \geq 1 G Ω Resolution: 10 μ Ω or Better

Frequency Measurement	Voltage input: Min.: ≤ 1 Hz Voltage input: Max.: ≥ 10 MHz Current input: Min.: ≤ 1 Hz Current input: Max.: ≥ 100 kHz	Frequency Measurement	Voltage input: Min.: ≤ 1 Hz Voltage input: Max.: ≥ 10 MHz Current input: Min.: ≤ 1 Hz Current input: Max.: ≥ 100 kHz
Interfaces	Any standard interface e.g. GPIB/RS-232 etc	Interfaces	Any standard interface e.g. GPIB/RS-232 etc
Warranty	1 year from the date of installation and commissioning.	Warranty	1 year from the date of installation and commissioning.
Ratio difference, Deviation Ohms, Voltage should be present		Ratio difference, Deviation Ohms, Voltage should be present	
All the necessary power cords and standard relevant accessories must be provided		All the necessary power cords and standard relevant accessories must be provided	
All the electrical connections should meet Indian Electrical Standards i.e. Single phase, 220-240 V AC @ 50 Hz.		All the electrical connections should meet Indian Electrical Standards i.e. Single phase, 220-240 V AC @ 50 Hz.	
The supplier should demonstrate all the features and capabilities of the Precision Voltmeter (DMM) at CSIR-NPL.		The supplier should demonstrate all the features and capabilities of the Precision Voltmeter (DMM) at CSIR-NPL.	
Traceable Calibration certificate must be provided		Traceable Calibration certificate must be provided	
Delivery should be made at CSIR-NPL		Delivery should be made at CSIR-NPL	

The file is forwarded to Purchase Section for uploading the final specifications and TSC minutes on the website and CPPP Portal.

Declaration: We hereby declare that we have no conflict of interest with any of the bidder in this tender