

# PT Calendar 2025

## CALIBRATION

As Per ISO/IEC 17043:2023



Fixed Point Temperature Calibration



Low Temperature Measurements Facility (-180 to -80°C)



High Temperature (Thermocouple) Source – Upto 1800°C



AC Measurement Primary Standard



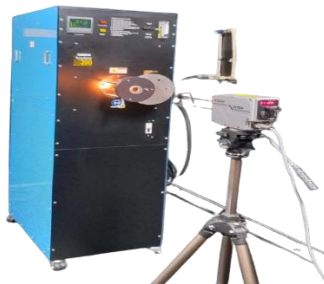
8.5 Digit Reference Multimeter



GPS/ Frequency Primary Standard



DC Primary Standard



Radiation Pyrometry (Upto 2900°C)



Weighing Balance

**Please Note: All the PT Programs are open throughout the year subjected to availability of participants.**

### FARE Labs Private Limited (PT Division)

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# PROFICIENCY TESTING



## INTRODUCTION

FARE Labs Pvt. Ltd., Gurugram is a state-of-the-art laboratory employing around 400 highly qualified, trained and competent personnel. We are into Testing, Calibration, Proficiency Testing, Training and Consultancy Services. Founded in 1999, FARE Labs Private Limited is functioning from three different locations in Gurugram. The main office is located in the heart of Gurugram near IFFCO Chowk while the other two locations are in Infocity, Sector 33, Gurugram. The PT activities are being operated from D-18, Infocity, Sector 33, Gurugram. FARE Labs is promoted by Mr. Dwijendra Mathur and Mr. Chandra Shekhar Joshi, a team of Chemical Engineers with a combined industry work experience of over 60 years. FARE Labs has relentlessly pursued scientific excellence and leadership and is considered as one of the leading laboratory in India in the fields of Testing, Calibration and as PTP. Over the years, FARE Labs has developed strong long-term relationships with its customers, including many leaders from domestic and global Companies, International NGOs and Government bodies.

## ACCREDITATIONS, RECOGNITIONS & CERTIFICATIONS:

FARE Labs Private Limited is an accredited laboratory as per ISO/IEC 17025:2017 in the field of Testing (Chemical, Biological, Radiological, Mechanical & Electrical Disciplines) and Calibration (Thermal, Mechanical, Dimension, Electro-technical, Fluid Flow & Medical Devices). FARE Labs also has accreditation as per ISO/IEC 17043:2023 and is a Proficiency Testing Provider (PTP) in the field of Testing (Chemical, Biological & Radiological) as well as Calibration (Thermal, Mechanical & Electro-Technical). The laboratory is recognized by FSSAI, EIC, APEDA, Tea Board and IOPEPC through Integrated Assessment Scheme of NABL India. Further, FARE Labs has been given the status of National Reference Laboratory for Oils & Fats by FSSAI (2019-2023).

FARE Labs (PTP) has conducted a number of PTs in the field of both Testing and Calibration since its accreditation as per ISO/IEC 17043:2023 in 2024. In an effort to extend the services to accredited laboratories and those seeking accreditation as per ISO/IEC 17025:2017, FARE Labs has expanded its PT scope during the Re-assessment of PTP conducted in 2022 and has prepared an exhaustive PT Calendar 2025 for both Testing & Calibration fields covering wide range of products and matrices. **The PT Calendar 2025 now covers the entire accredited scope as approved by NABL after the re-assessment of PTP and available on NABL Website. The parameters which are not in our scope are marked with \*.**

Proficiency Testing Programme ensures the quality and validity of test results and thus, supports sustainable business growth. It is important not only to participate in the PTs but to perform well in terms of En Ratio.

Participation in Proficiency Testing Programme has following advantages and benefits:

- Ensuring the quality of analytical results, enabling laboratories to monitor and improve performance over time
- Providing a mechanism for quality assurance and demonstration of satisfactory technical competency
- Identifying testing or measurement problems
- Comparing methods and procedure



# PROFICIENCY TESTING



- Improving performance
- Instilling confidence in staff, management and external users of laboratory services
- Comparing operator capabilities
- Determining method precision and accuracy
- Satisfying regulators and accreditation bodies
- Providing laboratories with additional risk management

## Information for PT Registration:

1. The dates for a PT Round initiation will be intimated as soon as sufficient number of participants in a particular PT will be received. Subsequently, the dates for the submission of results and PT Report release will be communicated to all the participants.
2. Participants are requested to register themselves for PT participation by sending us mail with filled in "PT Registration Form" along with the respective Participation Fees in advance.
3. The payments made should also include the Shipping Charges as mentioned and 18% GST as per government notification.
4. PT Reports will be circulated to participants in the form of soft copies (pdf format) only.
5. Participants from India and overseas can contact us on [ptprovider@farelabs.com](mailto:ptprovider@farelabs.com)

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# PROFICIENCY TESTING



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**THERMAL METROLOGY (TEMPERATURE)**

**STANDARD PLATINIUM RESISTANCE THERMOMETERS (SPRT)**

S.No.	PT No.	PT Item Details	Calibration Range	Calibration at Fixed Point	Participation Criteria (CMC coarser than specified values)	Proposed Month
1.	TETH-2501	SPRT	-196 to 660 °C	LN2, Hg, TPW, Ga, Sn, Zn, Al	5.0 mK, 2.0 mK, 1.4 mK, 2.5 mK, 3.6 mK, 4.3 mK, 5.7 mK	Apr 2025
2.	TETH-2502	SPRT	-40 to 660 °C	Hg, TPW, Ga, Sn, Zn, Al	2.0 mK, 1.4 mK, 2.5 mK, 3.6 mK, 4.3 mK, 5.7 mK	Sep 2025

**PLATINIUM RESISTANCE THERMOMETERS**

S.No.	PT No.	PT Item Details	Calibration Point	Participation Criteria (CMC coarser than specified values)	Proposed Month
3.	TETH-2503	RTD with indicator	-40, 0, 300 & 600 °C	0.02 °C	Jan 2025
4.	TETH-2504	RTD with indicator	-40, 0, 200 & 500 °C	0.02 °C	Jan 2025
5.	TETH-2505	RTD with indicator	-40, 0, 200 & 400 °C	0.02 °C	Jan 2025
6.	TETH-2506	RTD with indicator	-40, 100 & 250 °C	0.02 °C	Jan 2025
7.	TETH-2507	RTD with indicator	-80, 0, 300 & 600 °C	0.02 °C	Jan 2025
8.	TETH-2508	RTD with indicator	-80, 0, 200 & 500 °C	0.02 °C	Jan 2025
9.	TETH-2509	RTD with indicator	-80, 0, 200 & 400 °C	0.02 °C	Jan 2025
10.	TETH-2510	RTD with indicator	-80, 100 & 250 °C	0.02 °C	Jan 2025
11.	TETH-2511	RTD with indicator	-196, 0, 300 & 660 °C	0.02 °C	Jan 2025
12.	TETH-2512	RTD without indicator	-40, 0, 200 & 400 °C	0.02 °C	Jan 2025
13.	TETH-2513	RTD with indicator	-40, 0, 300 & 600 °C	0.02 °C	Apr 2025
14.	TETH-2514	RTD with indicator	-40, 0, 200 & 500 °C	0.02 °C	Apr 2025
15.	TETH-2515	RTD with indicator	-40, 0, 200 & 400 °C	0.02 °C	Apr 2025
16.	TETH-2516	RTD with indicator	-40, 100 & 250 °C	0.02 °C	Apr 2025
17.	TETH-2517	RTD with indicator	-80, 0, 300 & 600 °C	0.02 °C	Apr 2025

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# PROFICIENCY TESTING

18.	TETH-2518	RTD with indicator	-80, 0, 200 & 500 °C	0.02 °C	Apr 2025
19.	TETH-2519	RTD with indicator	-80, 0, 200 & 400 °C	0.02 °C	Apr 2025
20.	TETH-2520	RTD with indicator	-80, 100 & 250 °C	0.02 °C	Apr 2025
21.	TETH-2521	RTD with indicator	-196, 0, 300 & 660 °C	0.02 °C	Apr 2025
22.	TETH-2522	RTD without indicator	-196, 0, 300 & 660 °C	0.02 °C	Apr 2025
23.	TETH-2523	RTD with indicator	-40, 0, 300 & 600 °C	0.02 °C	Jul 2025
24.	TETH-2524	RTD with indicator	-40, 0, 200 & 500 °C	0.02 °C	Jul 2025
25.	TETH-2525	RTD with indicator	-40, 0, 200 & 400 °C	0.02 °C	Jul 2025
26.	TETH-2526	RTD with indicator	-40, 100 & 250 °C	0.02 °C	Jul 2025
27.	TETH-2527	RTD with indicator	-80, 0, 300 & 600 °C	0.02 °C	Jul 2025
28.	TETH-2528	RTD with indicator	-80, 0, 200 & 500 °C	0.02 °C	Jul 2025
29.	TETH-2529	RTD with indicator	-80, 0, 200 & 400 °C	0.02 °C	Jul 2025
30.	TETH-2530	RTD with indicator	-80, 100 & 250 °C	0.02 °C	Jul 2025
31.	TETH-2531	RTD with indicator	-196, 0, 300 & 660 °C	0.02 °C	Jul 2025
32.	TETH-2532	RTD without indicator	-40, 100 & 400 °C	0.02 °C	Jul 2025
33.	TETH-2533	RTD with indicator	-40, 0, 300 & 600 °C	0.02 °C	Oct 2025
34.	TETH-2534	RTD with indicator	-40, 0, 200 & 500 °C	0.02 °C	Oct 2025
35.	TETH-2535	RTD with indicator	-40, 0, 200 & 400 °C	0.02 °C	Oct 2025
36.	TETH-2536	RTD with indicator	-40, 100 & 250 °C	0.02 °C	Oct 2025
37.	TETH-2537	RTD with indicator	-80, 0, 300 & 600 °C	0.02 °C	Oct 2025
38.	TETH-2538	RTD with indicator	-80, 0, 200 & 500 °C	0.02 °C	Oct 2025
39.	TETH-2539	RTD with indicator	-80, 0, 200 & 400 °C	0.02 °C	Oct 2025
40.	TETH-2540	RTD with indicator	-80, 100 & 250 °C	0.02 °C	Oct 2025
41.	TETH-2541	RTD with indicator	-196, 0, 300 & 660 °C	0.02 °C	Oct 2025
42.	TETH-2542	RTD without indicator	-80, 0, 200 & 400 °C	0.02 °C	Oct 2025

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# PROFICIENCY TESTING



## THERMOCOUPLES

S.No.	PT No.	PT Item Details	Calibration Point	Participation Criteria (CMC coarser than specified values)	Proposed Month
43.	TETH-2543	N Type TC with Indicator	300, 800 & 1200 °C	0.25 °C to 0.81 °C	Jan 2025
44.	TETH-2544	N Type TC without indicator	300, 900 & 1200 °C	0.25 °C to 0.81 °C	Jan 2025
45.	TETH-2545	N Type TC with indicator	500, 900 & 1200 °C	0.81 °C	Jan 2025
46.	TETH-2546	N Type TC with indicator	600, 900 & 1200 °C	0.81 °C	Jan 2025
47.	TETH-2547	N Type TC with indicator	200, 600 & 1000 °C	0.25 °C to 0.81 °C	Jan 2025
48.	TETH-2548	N Type TC with indicator	300, 600 & 900 °C	0.81 °C	Jan 2025
49.	TETH-2549	N Type TC with indicator	400, 700 & 900 °C	0.81 °C	Jan 2025
50.	TETH-2550	N Type TC with Indicator	300, 800 & 1200 °C	0.25 °C to 0.81 °C	May 2025
51.	TETH-2551	N Type TC without indicator	300, 900 & 1200 °C	0.25 °C to 0.81 °C	May 2025
52.	TETH-2552	N Type TC with indicator	500, 900 & 1200 °C	0.81 °C	May 2025
53.	TETH-2553	N Type TC with indicator	600, 900 & 1200 °C	0.81 °C	May 2025
54.	TETH-2554	N Type TC with indicator	200, 600 & 1000 °C	0.25 °C to 0.81 °C	May 2025
55.	TETH-2555	N Type TC with indicator	300, 600 & 900 °C	0.81 °C	May 2025
56.	TETH-2556	N Type TC with indicator	400, 700 & 900 °C	0.81 °C	May 2025
57.	TETH-2557	S Type TC without indicator	300, 800, 1200 & 1550 °C	0.81°C to 1.72 °C	Jun 2025
58.	TETH-2558	N Type TC with Indicator	300, 800 & 1200 °C	0.25 °C to 0.81 °C	Sep 2025
59.	TETH-2559	N Type TC without indicator	300, 900 & 1200 °C	0.25 °C to 0.81 °C	Sep 2025
60.	TETH-2560	N Type TC with indicator	500, 900 & 1200 °C	0.81 °C	Sep 2025
61.	TETH-2561	N Type TC with indicator	600, 900 & 1200 °C	0.81 °C	Sep 2025
62.	TETH-2562	N Type TC with indicator	200, 600 & 1000 °C	0.25 °C to 0.81 °C	Sep 2025
63.	TETH-2563	N Type TC with indicator	300, 600 & 900 °C	0.81 °C	Sep 2025
64.	TETH-2564	N Type TC with indicator	400, 700 & 900 °C	0.81 °C	Sep 2025



**LIQUID-IN-GLASS THERMOMETERS**

S.No.	PT No.	PT Item Details	Calibration Point	Participation Criteria (CMC coarser than specified values)	Proposed Month
65.	TETH-2565	Glass Thermometer	0 °C, 25 °C & 50 °C	0.015 °C	Jan 2025
66.	TETH-2566	Glass Thermometer	0 °C, 50 °C & 100 °C	0.015 °C to 0.013 °C	Jan 2025
67.	TETH-2567	Glass Thermometer	0 °C, 100 °C & 200 °C	0.015 °C to 0.013 °C	Jan 2025
68.	TETH-2568	Glass Thermometer	0 °C, 25 °C & 50 °C	0.015 °C	May 2025
69.	TETH-2569	Glass Thermometer	0 °C, 50 °C & 100 °C	0.015 °C to 0.013 °C	May 2025
70.	TETH-2570	Glass Thermometer	0 °C, 100 °C & 200 °C	0.015 °C to 0.013 °C	May 2025
71.	TETH-2571	Glass Thermometer	0 °C, 25 °C & 50 °C	0.015 °C	Sep 2025
72.	TETH-2572	Glass Thermometer	0 °C, 50 °C & 100 °C	0.015 °C to 0.013 °C	Sep 2025
73.	TETH-2573	Glass Thermometer	0 °C, 100 °C & 200 °C	0.015 °C to 0.013 °C	Sep 2025

**RADIATION PYROMETERS**

S.No.	PT No.	PT Item Details	Calibration Point	Participation Criteria (CMC coarser than specified values)	Proposed Month
74.	TETH-2574	IR Pyrometer	50 °C, 250 °C & 500 °C	0.69 °C to 1.50 °C	Jan 2025
75.	TETH-2575	IR Pyrometer	100 °C, 500 °C & 1000 °C	0.69 °C to 3.58 °C	Jan 2025
76.	TETH-2576	IR Pyrometer	500, 1000 °C, 1500, 2000 °C & 2900 °C	1.50 °C to 4.58 °C	Jan 2025
77.	TETH-2577	IR Pyrometer	50 °C, 250 °C & 500 °C	0.69 °C to 1.50 °C	Apr 2025
78.	TETH-2578	IR Pyrometer	100 °C, 500 °C & 1000 °C	0.69 °C to 3.58 °C	May 2025
79.	TETH-2579	IR Pyrometer	500, 1000 °C, 1500, 2000 °C & 2900 °C	1.50 °C to 4.58 °C	May 2025
80.	TETH-2580	IR Pyrometer	50 °C, 250 °C & 500 °C	0.69 °C to 1.50 °C	Jul 2025
81.	TETH-2581	IR Pyrometer	100 °C, 500 °C & 1000 °C	0.69 °C to 3.58 °C	Sep 2025
82.	TETH-2582	IR Pyrometer	500, 1000 °C, 1500, 2000 °C & 2900 °C	1.50 °C to 4.58 °C	Sep 2025
83.	TETH-2581	IR Pyrometer	50 °C, 250 °C & 500 °C	0.69 °C to 1.50 °C	Oct 2025

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# PROFICIENCY TESTING



## THERMAL METROLOGY (HUMIDITY)

S.No.	PT No.	PT Item	PT Item Details	Calibration Point	Participation Criteria (CMC coarser than specified values)	Proposed Month
84.	TERH-2501	Thermo-Hygrometer	Resolution: 0.01% RH	15 % RH, 50 % RH & 95 % RH @ 25 °C	0.44%RH	Jan 2025
85.	TERH-2502	Thermo-Hygrometer	Resolution: 0.01% RH	20 % RH, 50 % RH & 95 % RH @ 25 °C	0.44%RH	Jan 2025
86.	TERH-2503	Thermo-Hygrometer	Resolution: 0.01% RH	15 % RH, 50 % RH & 90 % RH @ 25 °C	0.44%RH	Jan 2025
87.	TERH-2504	Thermo-Hygrometer	Resolution: 0.01% RH	20 % RH, 50 % RH & 90 % RH @ 25 °C	0.44%RH	Jan 2025
88.	TERH-2505	Thermo-Hygrometer	Resolution: 0.01% RH	10 % RH, 50 % RH & 90 % RH @ 25 °C	0.44%RH	Jan 2025
89.	TERH-2506	Thermo-Hygrometer	Resolution: 0.01% RH	30 % RH, 50 % RH & 80 % RH @ 25 °C	0.44%RH	Jan 2025
90.	TERH-2507	Thermo-Hygrometer	Resolution: 0.01% RH	15 % RH, 50 % RH & 95 % RH @ 25 °C	0.44%RH	May 2025
91.	TERH-2508	Thermo-Hygrometer	Resolution: 0.01% RH	20 % RH, 50 % RH & 95 % RH @ 25 °C	0.44%RH	May 2025
92.	TERH-2509	Thermo-Hygrometer	Resolution: 0.01% RH	15 % RH, 50 % RH & 90 % RH @ 25 °C	0.44%RH	May 2025
93.	TERH-2510	Thermo-Hygrometer	Resolution: 0.01% RH	20 % RH, 50 % RH & 90 % RH @ 25 °C	0.44%RH	May 2025
94.	TERH-2511	Thermo-Hygrometer	Resolution: 0.01% RH	10 % RH, 50 % RH & 90 % RH @ 25 °C	0.44%RH	May 2025
95.	TERH-2512	Thermo-Hygrometer	Resolution: 0.01% RH	30 % RH, 50 % RH & 80 % RH @ 25 °C	0.44%RH	May 2025
96.	TERH-2513	Thermo-Hygrometer	Resolution: 0.01% RH	15 % RH, 50 % RH & 95 % RH @ 25 °C	0.44%RH	Sep 2025
97.	TERH-2514	Thermo-Hygrometer	Resolution: 0.01% RH	20 % RH, 50 % RH & 95 % RH @ 25 °C	0.44%RH	Sep 2025
98.	TERH-2515	Thermo-Hygrometer	Resolution: 0.01% RH	15 % RH, 50 % RH & 90 % RH @ 25 °C	0.44%RH	Sep 2025
99.	TERH-2516	Thermo-Hygrometer	Resolution: 0.01% RH	20 % RH, 50 % RH & 90 % RH @ 25 °C	0.44%RH	Sep 2025
100.	TERH-2517	Thermo-Hygrometer	Resolution: 0.01% RH	10 % RH, 50 % RH & 90 % RH @ 25 °C	0.44%RH	Sep 2025
101.	TERH-2518	Thermo-Hygrometer	Resolution: 0.01% RH	30 % RH, 50 % RH & 80 % RH @ 25 °C	0.44%RH	Sep 2025



# PROFICIENCY TESTING



RELATIVE HUMIDITY						
S.No.	PT No.	PT Item	PT Item Details	Calibration Point	Participation Criteria (CMC coarser than specified values)	Proposed Month
102.	TERH-2519	Thermo-Hygrometer	Resolution: 0.01°C	(10, 30 & 50) °C @ 50% RH	0.16 °C	Feb 2025
103.	TERH-2520	Thermo-Hygrometer	Resolution: 0.01°C	(20, 30 & 50) °C @ 50% RH	0.16 °C	Feb 2025
104.	TERH-2521	Thermo-Hygrometer	Resolution: 0.01°C	(10, 30 & 50) °C @ 50% RH	0.16 °C	Aug 2025
105.	TERH-2522	Thermo-Hygrometer	Resolution: 0.01°C	(20, 30 & 50) °C @ 50% RH	0.16 °C	Aug 2025



# PROFICIENCY TESTING



## MECHANICAL METROLOGY (MASS)

S.No.	PT No.	PT Item	PT Item Details	Calibration Point	Participation Criteria (CMC coarser than specified values)	Proposed Month
106.	MVME-2501	Weights	F2 Class	2 g, 20 g & 200 g	0.004 mg, 0.007 mg, 0.06 mg	Jan 2025
107.	MVME-2502	Weights	F2 Class	1 g, 10 g & 100 g	0.004 mg, 0.006 mg, 0.023 mg	Jan 2025
108.	MVME-2503	Weights	F2 Class	500 mg, 5 g & 50 g	0.003 mg, 0.005 mg, 0.010 mg	Jan 2025
109.	MVME-2504	Weights	F1 Class	2 g, 20 g & 200 g	0.004 mg, 0.007 mg, 0.06 mg	Jan 2025
110.	MVME-2505	Weights	F1 Class	1 g, 10 g & 100 g	0.004 mg, 0.006 mg, 0.023 mg	Jan 2025
111.	MVME-2506	Weights	F1 Class	500 mg, 5 g & 50 g	0.003 mg, 0.005 mg, 0.010 mg	Jan 2025
112.	MVME-2507	Weights	F2 Class	2 g, 20 g & 200 g	0.004 mg, 0.007 mg, 0.06 mg	Apr 2025
113.	MVME-2508	Weights	F2 Class	1 g, 10 g & 100 g	0.004 mg, 0.006 mg, 0.023 mg	Apr 2025
114.	MVME-2509	Weights	F2 Class	500 mg, 5 g & 50 g	0.003 mg, 0.005 mg, 0.010 mg	Apr 2025
115.	MVME-2510	Weights	F2 Class	2 g, 20 g & 200 g	0.004 mg, 0.007 mg, 0.06 mg	Jul 2025
116.	MVME-2511	Weights	F2 Class	1 g, 10 g & 100 g	0.004 mg, 0.006 mg, 0.023 mg	Jul 2025
117.	MVME-2512	Weights	F2 Class	500 mg, 5 g & 50 g	0.003 mg, 0.005 mg, 0.010 mg	Jul 2025
118.	MVME-2513	Weights	F1 Class	2 g, 20 g & 200 g	0.004 mg, 0.007 mg, 0.06 mg	Jul 2025
119.	MVME-2514	Weights	F1 Class	1 g, 10 g & 100 g	0.004 mg, 0.006 mg, 0.023 mg	Jul 2025
120.	MVME-2515	Weights	F1 Class	500 mg, 5 g & 50 g	0.003 mg, 0.005 mg, 0.010 mg	Jul 2025
121.	MVME-2516	Weights	F2 Class	2 g, 20 g & 200 g	0.004 mg, 0.007 mg, 0.06 mg	Oct 2025
122.	MVME-2517	Weights	F2 Class	1 g, 10 g & 100 g	0.004 mg, 0.006 mg, 0.023 mg	Oct 2025
123.	MVME-2518	Weights	F2 Class	500 mg, 5 g & 50 g	0.003 mg, 0.005 mg, 0.010 mg	Oct 2025



# PROFICIENCY TESTING



## MECHANICAL METROLOGY (VOLUME)

S.No.	PT No.	PT Item	PT Item Details	Calibration Point	Participation Criteria (CMC coarser than specified values)	Proposed Month
124.	MVME-2519	Micropipette (Piston Operated)	Make: Eppendorf, Model: Research Plus	100 µl, 500 µl & 1000 µl	0.8 µl	Jan 2025
125.	MVME-2520	Micropipette (Piston Operated)	Make: Eppendorf, Model: Research Plus	10 µl, 50 µl & 100 µl	0.09 µl	Jan 2025
126.	MVME-2521	Micropipette (Piston Operated)	Make: Eppendorf, Model: Research Plus	1 µl, 5 µl & 10 µl	0.02 µl	Jan 2025
127.	MVME-2522	Micropipette (Piston Operated)	Make: Eppendorf, Model: Research Plus	100 µl, 500 µl & 1000 µl	0.8 µl	Apr 2025
128.	MVME-2523	Micropipette (Piston Operated)	Make: Eppendorf, Model: Research Plus	100 µl, 500 µl & 1000 µl	0.8 µl	Jul 2025
129.	MVME-2524	Micropipette (Piston Operated)	Make: Eppendorf, Model: Research Plus	10 µl, 50 µl & 100 µl	0.09 µl	Jul 2025
130.	MVME-2525	Micropipette (Piston Operated)	Make: Eppendorf, Model: Research Plus	1 µl, 5 µl & 10 µl	0.02 µl	Jul 2025
131.	MVME-2526	Micropipette (Piston Operated)	Make: Eppendorf, Model: Research Plus	100 µl, 500 µl & 1000 µl	0.8 µl	Oct 2025

## MECHANICAL (DENSITY)

S.No.	PT No.	PT Item Details	Calibration Point	Participation Criteria (CMC coarser than specified values)	Proposed Month
132.	DVME-2501	Density Hydrometer (LC: 0.0005 g/ml)	0.600, 0.650 & 0.700 g/ml	0.0008 g/ml	Mar 2025
133.	DVME-2502	Density Hydrometer (LC: 0.0005 g/ml)	0.800, 0.820 & 0.850 g/ml	0.0008 g/ml	Apr 2025
134.	DVME-2503	Density Hydrometer (LC: 0.0005 g/ml)	0.600, 0.650 & 0.700 g/ml	0.0008 g/ml	Sep 2025
135.	DVME-2504	Density Hydrometer (LC: 0.0005 g/ml)	0.800, 0.820 & 0.850 g/ml	0.0008 g/ml	Oct 2025

## MECHANICAL (VISCOSITY)

S.No.	PT No.	PT Item Details	Calibration Point	Participation Criteria (CMC coarser than specified values)	Proposed Month
136.	DVME-2505	Capillary Viscometer (Size 200)	Viscometer Constant @ 40 °C	0.47%	Apr 2025
137.	DVME-2506	Capillary Viscometer (Size 200)	Viscometer Constant @ 40 °C	0.47%	Oct 2025



# PROFICIENCY TESTING



## MECHANICAL (PRESSURE - PNEUMATIC)

S.No.	PT No.	PT Item	PT Item Details	Calibration Point	Participation Criteria (CMC coarser than specified values)	Proposed Month
138.	PVME-2501	Pressure Gauge	Range: (0 to 50) bar, Resolution:0.001, Accuracy: 0.05% of FS	0, 2, 10, 20 & 30 bar	0.015% rdg	Jan 2025
139.	PVME-2502	Pressure Gauge	Range: (0 to 50) bar, Resolution:0.001, Accuracy: 0.05% of FS	0, 2, 10, 20 & 30 bar	0.015% rdg	Mar 2025
140.	PVME-2503	Pressure Gauge	Range: (0 to 50) bar, Resolution:0.001, Accuracy: 0.05% of FS	0, 2, 10, 20 & 30 bar	0.015% rdg	May 2025
141.	PVME-2504	Pressure Gauge	Range: (0 to 50) bar, Resolution:0.001, Accuracy: 0.05% of FS	0, 2, 10, 20 & 30 bar	0.015% rdg	Jul 2025
142.	PVME-2505	Pressure Gauge	Range: (0 to 50) bar, Resolution:0.001, Accuracy: 0.05% of FS	0, 2, 10, 20 & 30 bar	0.015% rdg	Sep 2025
143.	PVME-2506	Pressure Gauge	Range: (0 to 50) bar, Resolution:0.001, Accuracy: 0.05% of FS	0, 2, 10, 20 & 30 bar	0.015% rdg	Nov 2025

## MECHANICAL (PRESSURE - HYDRAULIC)

S.No.	PT No.	PT Item	PT Item Details	Calibration Point	Participation Criteria (CMC coarser than specified values)	Proposed Month
144.	HPME-2501	Pressure Gauge	Range: (0 to 700) bar, Resolution: 0.1 bar, Accuracy: $\pm 0.5\%$ of F.S.	0, 100, 300, 500 & 700 bar	0.12% rdg	Jan 2025
145.	HPME-2502	Pressure Gauge	Range: (0 to 700) bar, Resolution: 0.1 bar, Accuracy: $\pm 0.5\%$ of F.S.	0, 10, 30, 50 & 70 bar	15 kPa	Feb 2025
146.	HPME-2503	Pressure Gauge	Range: (0 to 700) bar, Resolution: 0.1 bar, Accuracy: $\pm 0.5\%$ of F.S.	0, 100, 300, 500 & 700 bar	0.12% rdg	Apr 2025
147.	HPME-2504	Pressure Gauge	Range: (0 to 700) bar, Resolution: 0.1 bar, Accuracy: $\pm 0.5\%$ of F.S.	0, 100, 300, 500 & 700 bar	0.12% rdg	Jul 2025
148.	HPME-2505	Pressure Gauge	Range: (0 to 700) bar, Resolution: 0.1 bar, Accuracy: $\pm 0.5\%$ of F.S.	0, 10, 30, 50 & 70 bar	15 kPa	Aug 2025
149.	HPME-2506	Pressure Gauge	Range: (0 to 700) bar, Resolution: 0.1 bar, Accuracy: $\pm 0.5\%$ of F.S.	0, 100, 300, 500 & 700 bar	0.12% rdg	Oct 2025

Please Note: All the PT Programs are open throughout the year subjected to availability of participants.



# PROFICIENCY TESTING



## MECHANICAL METROLOGY (VACUUM)

S.No.	PT No.	PT Item	PT Item Details	Calibration Point	Participation Criteria (CMC coarser than specified values)	Proposed Month
150.	VMME-2501	Pressure Gauge	Range: (0 to -1) bar Resolution:0.001, Accuracy:0.05% of FS	0, -0.1,-0.3, -0.5, -0.7 &-0.9 bar	80 Pa	Jan 2025
151.	VMME-2502	Pressure Gauge	Range: (0 to -1) bar Resolution:0.001, Accuracy:0.05% of FS	0, -0.1,-0.3, -0.5, -0.7 &-0.9 bar	80 Pa	Apr 2025
152.	VMME-2503	Pressure Gauge	Range: (0 to -1) bar Resolution:0.001, Accuracy:0.05% of FS	0, -0.1,-0.3, -0.5, -0.7 &-0.9 bar	80 Pa	Jul 2025
153.	VMME-2504	Pressure Gauge	Range: (0 to -1) bar Resolution:0.001, Accuracy:0.05% of FS	0, -0.1,-0.3, -0.5, -0.7 &-0.9 bar	80 Pa	Oct 2025

## MECHANICAL METROLOGY (ACOUSTICS)

S.No.	PT No.	PT Item Details	Calibration Point	Participation Criteria (CMC coarser than specified values)	Proposed Month
154.	ACME-2501	Sound Level Meter	94 dB & 114 dB (A Weighting)	0.27 %	Jan 2025
155.	ACME-2502	Sound Level Meter	94 dB & 114 dB (A Weighting)	0.27 %	Mar 2025
156.	ACME-2503	Sound Level Meter	94 dB & 114 dB (A Weighting)	0.27 %	May 2025
157.	ACME-2504	Sound Level Meter	94 dB & 114 dB (A Weighting)	0.27 %	Jul 2025
158.	ACME-2505	Sound Level Meter	94 dB & 114 dB (A Weighting)	0.27 %	Sep 2025
159.	ACME-2506	Sound Level Meter	94 dB & 114 dB (A Weighting)	0.27 %	Nov 2025



# PROFICIENCY TESTING



## MECHANICAL METROLOGY (WEIGHING BALANCE)

S.No.	PT No.	PT Item Details	Calibration Range/ Resolution	Participation Criteria (CMC coarser than specified values)	Proposed Month
160.	WBME-2501	Weighing Balance	0 to 200g (0.1 mg)	0.08 mg	Jan 2025
161.	WBME-2502	Weighing Balance	0 to 120g (0.01 mg up to 60g, 0.1 mg > 60g)	0.08 mg	Mar 2025
162.	WBME-2503	Weighing Balance	0 to 200g (0.1 mg)	0.08 mg	Apr 2025
163.	WBME-2505	Weighing Balance	0 to 200g (0.1 mg)	0.08 mg	Jul 2025
164.	WBME-2504	Weighing Balance	0 to 120g (0.01 mg up to 60g, 0.1 mg > 60g)	0.08 mg	Aug 2025
165.	WBME-2506	Weighing Balance	0 to 200g (0.1 mg)	0.08 mg	Oct 2025

## MECHANICAL METROLOGY (SPEED & ACCELERATION)

S.No.	PT No.	PT Item Details	Calibration Range/ Resolution	Participation Criteria (CMC coarser than specified values)	Proposed Month
166.	TMME-2501*	Tachometer (Resolution: 0.1 rpm up to 999.9 rpm & 1 rpm above 999.9)	(20, 100, 500, 5000 & 30000) rpm	(4.13%, 4.13%, 0.04%, 0.04%, 0.03%) of rdg	Mar 2025
167.	TMME-2502*	Tachometer (Resolution: 0.1 rpm up to 999.9 rpm & 1 rpm above 999.9)	(20, 100, 500, 5000 & 30000) rpm	(4.13%, 4.13%, 0.04%, 0.04%, 0.03%) of rdg	Sep 2025

## MECHANICAL METROLOGY (VOLUME)

S.No.	PT No.	PT Item Details	Calibration Range/ Resolution	Participation Criteria (CMC coarser than specified values)	Proposed Month
168.	GWME-2501*	Glassware	(1, 5, 10) ml	0.01 ml	Mar 2025
169.	GWME-2502*	Glassware	(1, 5, 10) ml	0.01 ml	Sep 2025

**Note: “\*” Marked\_ These PT Programs will be organized for the preparation of NABL Audit for extension of scope in PT.**



# PROFICIENCY TESTING



## DIMENSION

S. No.	PT No.	PT Item	Parameter & Range/Resolution	Calibration Point	Participation Criteria (CMC coarser than specified values)	Proposed Month
<b>LINEAR INSTRUMENTS &amp; GAUGES</b>						
170.	DGDM-2501	Dial Gauge (Plunger Type)	Length & 0-10 mm / 0.01 mm	(0.5, 1, 2, 5, 7 and 10) mm	5.8 µm	Feb 2025
171.	DCDM-2502	Digital Caliper	Length & (0 to 200 mm) / 0.01 mm	(2.5, 5.1, 10.3, 15, 25, 100, 300) mm	7.3 µm	Feb 2025
172.	FGDM-2503	Flakiness Gauge	Thickness & (10 to 6.3) to (63 to 50)	(63 to 50), (50 to 40), (40 to 31.5), (31.5 to 25)	4.1 µm	Feb 2025
173.	GCDM-2504	GSM Cutter	Diameter & 112.8 mm	112.8 mm	6.5 µm	Feb 2025
174.	HGDM-2505	Height Gauge	Height & (0 to 300) mm / 0.01 mm	(10, 20, 50, 100, 200, 300) mm	9.17 µm	Feb 2025
175.	MPDM-2506	Measuring Pin	Diameter & ( 5 to 20 mm )	(5, 10, 20) mm	0.53 µm	Feb 2025
176.	MTDM-2507	Measuring Tape	Length & (0 to 30) m	(1, 5, 10) m	115.7*sqrt(L) µm, Where L in meter	Feb 2025
177.	MHDM-2508	Micrometer Head	Length & (0 to 25 mm) / 0.002 mm	(2.5, 5.1, 10.3, 15, 20.2, 25) mm	2.2 µm	Feb 2025
178.	OFDM-2509	Optical Flat	Flatness & 45 mm Diameter	Flatness both Side, Side A and Side B	0.3 µm	Feb 2025
179.	PRGDM-2510	Plain Plug Gauge	Diameter & 50 mm	X=50 mm, Y=50 mm	1.48 µm	Feb 2025
180.	PRGDM-2511	Plain Ring Gauge	Diameter & 50 mm	X=50 mm, Y=50 mm	1.1 µm	Feb 2025
181.	SRDM-2512	Setting Rod	Length & 200 mm	200 mm	0.5 µm	Feb 2025
182.	SGDM-2513	Snap Gauge	Length & 0 to 25 mm	GO & NOGO Size	1.5 µm	Feb 2025
183.	SMDM-2514	Stage Micrometer	Length & 0 to 1 mm / 0.01 mm	(0.1, 0.3, 0.5, 0.7, 1.0) mm	3.85 µm	Feb 2025





# PROFICIENCY TESTING



## DIMENSION

S. No.	PT No.	PT Item	Parameter & Range/Resolution	Calibration Point	Participation Criteria (CMC coarser than specified values)	Proposed Month
184.	STFDM-2515	Standard Thickness Foils	Thickness & 125, 252, 738 microns	(125, 252, 738) $\mu\text{m}$	1.2 $\mu\text{m}$	Feb 2025
185.	SSDM-2516	Steel Scale	Steel Scale & 600 mm	(1, 10, 100, 300 & 600 ) mm	21.38 $\mu\text{m}$ to 58 $\mu\text{m}$	Feb 2025
186.	SRSDM-2517	Surface Roughness Specimen	Surface Roughness & Ra 3.03 $\mu\text{m}$	Ra 3.03 $\mu\text{m}$	8.0% rdg	Feb 2025
187.	TPGDM-2518	Taper Plug Gauge	Major Diameter and Half Angle & 1 ½ to 11.5 NPT	Major Diameter and Half Angle	3.0 $\mu\text{m}$	Feb 2025
188.	TRGDM-2519	Taper Ring Gauge	Major Diameter and Half Angle & 1 ½ to 11.5 NPT	Effective Diameter & Half Angle	1.2 $\mu\text{m}$	Feb 2025
189.	TGDM-2520	Taper Scale	Width & (1-15) mm	(2, 4, 6, 10, 15) mm	4 $\mu\text{m}$	Feb 2025
190.	TSDM-2521	Test Sieve	Aperture Size & 500 microns	Aperture size warp, Aperture size weft, Wire Diameter	3.51 $\mu\text{m}$	Feb 2025
191.	TMWDM-2522	Thread Measuring Wire	Diameter & (0.17 to 6.35) mm	(0.455, 0.895, 6.35) mm	0.4 $\mu\text{m}$	Feb 2025
192.	TPGDM-2523	Thread Pitch Gauge	Pitch and Angle & (0.35 to 6) mm	(1, 2, 3, 4, 5, 6) mm	4 $\mu\text{m}$	Feb 2025
193.	TPGDM-2524	Thread Plug Gauge	Effective Diameter & M50x1.5-6H	Effective Diameter (GO & NOGO)	2.5 $\mu\text{m}$	Feb 2025
194.	TRGDM-2525	Thread Ring Gauge	Effective Diameter & M50x1.5-6H	Effective Diameter (GO & NOGO)	1.2 $\mu\text{m}$	Feb 2025
195.	WGDM-2526	Weld Gauge	Linear and Angle & (0 to 60) mm	(5, 10, 15, 20, 25) mm	115 $\mu\text{m}$	Feb 2025
196.	WFTDM-2527	Wet Film Thickness Gauge	Thickness & (25 to 3000) microns	(100, 500, 1000, 2000, 2500) $\mu\text{m}$	3.27 $\mu\text{m}$	Feb 2025
197.	WGDM-2528	Wire Gauge	Groove Width & (0.19 to 8.23) mm	(0.35, 1.02, 2.03, 2.95, 6.40) mm	3.6 $\mu\text{m}$	Feb 2025

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# PROFICIENCY TESTING



## DIMENSION

S. No.	PT No.	PT Item	Parameter & Range/Resolution	Calibration Point	Participation Criteria (CMC coarser than specified values)	Proposed Month
198.	DGDM-2501	Dial Gauge (Plunger Type)	Length & 0-10 mm / 0.01 mm	(0.5, 1, 2, 5, 7 and 10) mm	5.8 µm	Aug 2025
199.	DCDM-2502	Digital Caliper	Length & (0 to 200 mm) / 0.01 mm	(2.5, 5.1, 10.3, 15, 25, 100, 300) mm	7.3 µm	Aug 2025
200.	FGDM-2503	Flakiness Gauge	Thickness & (10 to 6.3) to (63 to 50)	(63 to 50), (50 to 40), (40 to 31.5), (31.5 to 25)	4.1 µm	Aug 2025
201.	GCDM-2504	GSM Cutter	Diameter & 112.8 mm	112.8 mm	6.5 µm	Aug 2025
202.	HGDM-2505	Height Gauge	Height & (0 to 300) mm / 0.01 mm	(10, 20, 50, 100, 200, 300) mm	9.17 µm	Aug 2025
203.	MPDM-2506	Measuring Pin	Diameter & ( 5 to 20 mm )	(5, 10, 20) mm	0.53 µm	Aug 2025
204.	MTDM-2507	Measuring Tape	Length & (0 to 30) m	(1, 5, 10) m	115.7*sqrt(L) µm, Where L in meter	Aug 2025
205.	MHDM-2508	Micrometer Head	Length & (0 to 25 mm) / 0.002 mm	(2.5, 5.1, 10.3, 15, 20.2, 25) mm	2.2 µm	Aug 2025
206.	OFDM-2509	Optical Flat	Flatness & 45 mm Diameter	Flatness both Side, Side A and Side B	0.3 µm	Aug 2025
207.	PRGDM-2510	Plain Plug Gauge	Diameter & 50 mm	X=50 mm, Y=50 mm	1.48 µm	Aug 2025
208.	PRGDM-2511	Plain Ring Gauge	Diameter & 50 mm	X=50 mm, Y=50 mm	1.1 µm	Aug 2025
209.	SRDM-2512	Setting Rod	Length & 200 mm	200 mm	0.5 µm	Aug 2025
210.	SGDM-2513	Snap Gauge	Length & 0 to 25 mm	GO & NOGO Size	1.5 µm	Aug 2025
211.	SMDM-2514	Stage Micrometer	Length & 0 to 1 mm / 0.01 mm	(0.1, 0.3, 0.5, 0.7, 1.0) mm	3.85 µm	Aug 2025
212.	STFDM-2515	Standard Thickness Foils	Thickness & 125, 252, 738 microns	(125, 252, 738) µm	1.2 µm	Aug 2025

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# PROFICIENCY TESTING



## DIMENSION

S. No.	PT No.	PT Item	Parameter & Range/Resolution	Calibration Point	Participation Criteria (CMC coarser than specified values)	Proposed Month
213.	SSDM-2516	Steel Scale	Steel Scale & 600 mm	(1, 10, 100, 300 & 600 ) mm	21.38 µm to 58 µm	Aug 2025
214.	SRSDM-2517	Surface Roughness Specimen	Surface Roughness & Ra 3.03 µm	Ra 3.03 µm	8.0% rdg	Aug 2025
215.	TPGDM-2518	Taper Plug Gauge	Major Diameter and Half Angle & 1 ½ to 11.5 NPT	Major Diameter and Half Angle	3.0 µm	Aug 2025
216.	TRGDM-2519	Taper Ring Gauge	Major Diameter and Half Angle & 1 ½ to 11.5 NPT	Effective Diameter & Half Angle	1.2 µm	Aug 2025
217.	TGDM-2520	Taper Scale	Width & (1-15) mm	(2, 4, 6, 10, 15) mm	4 µm	Aug 2025
218.	TSDM-2521	Test Sieve	Aperture Size & 500 microns	Aperture size warp, Aperture size weft, Wire Diameter	3.51 µm	Aug 2025
219.	TMWDM-2522	Thread Measuring Wire	Diameter & (0.17 to 6.35) mm	(0.455, 0.895, 6.35) mm	0.4 µm	Aug 2025
220.	TPGDM-2523	Thread Pitch Gauge	Pitch and Angle & (0.35 to 6) mm	(1, 2, 3, 4, 5, 6) mm	4 µm	Aug 2025
221.	TPGDM-2524	Thread Plug Gauge	Effective Diameter & M50x1.5-6H	Effective Diameter (GO & NOGO)	2.5 µm	Aug 2025
222.	TRGDM-2525	Thread Ring Gauge	Effective Diameter & M50x1.5-6H	Effective Diameter (GO & NOGO)	1.2 µm	Aug 2025
223.	WGDM-2526	Weld Gauge	Linear and Angle & (0 to 60) mm	(5, 10, 15, 20, 25) mm	115 µm	Aug 2025
224.	WFTDM-2527	Wet Film Thickness Gauge	Thickness & (25 to 3000) microns	(100, 500, 1000, 2000, 2500) µm	3.27 µm	Aug 2025
225.	WGDM-2528	Wire Gauge	Groove Width & (0.19 to 8.23) mm	(0.35, 1.02, 2.03, 2.95, 6.40) mm	3.6 µm	Aug 2025



# PROFICIENCY TESTING



## ELECTRO-TECHNICAL (AC)

S.No.	PT No.	PT Item	PT Item Details	Calibration Point	Participation Criteria (CMC coarser than specified values)	Proposed Month
226.	VCET-2501	True RMS Digital Multimeter	Make: Fluke, Model:287 OR	<u>AC Voltage @ 50Hz</u> 10mV, 10V & 1000V	±0.058%, ±0.013% & ±0.014%	Jan 2025
			Make: GW Instek, Model: GDM-541	<u>AC Current @ 50Hz</u> 100µA, 100mA & 10A	±0.08%, ±0.053% & 0.095%	
227.	VCET-2502	True RMS Digital Multimeter	Make: Fluke, Model:287 OR	<u>DC Voltage</u> 100mV, 10V & 1000V	±0.006%, ±0.006% & ±0.006%	Jan 2025
			Make: GW Instek, Model: GDM-541	<u>DC Current</u> 100µA, 100mA & 10A	±0.010%, ±0.010% & ±0.050%	
				<u>DC Resistance</u> 100Ω, 1kΩ & 10kΩ	±0.006%, ±0.006% & ±0.006%	
228.	VCET-2503	True RMS Digital Multimeter	Make: Fluke, Model:287 OR	<u>AC Voltage @ 50Hz</u> 10mV, 10V & 1000V	±0.058%, ±0.013% & ±0.014%	Mar 2025
			Make: GW Instek, Model: GDM-541	<u>AC Current @ 50Hz</u> 100µA, 100mA & 10A	±0.08%, ±0.053% & 0.095%	
229.	VCET-2504	True RMS Digital Multimeter	Make: Fluke, Model:287 OR	<u>DC Voltage</u> 100mV, 10V & 1000V	±0.006%, ±0.006% & ±0.006%	Mar 2025
			Make: GW Instek, Model: GDM-541	<u>DC Current</u> 100µA, 100mA & 10A	±0.010%, ±0.010% & ±0.050%	
				<u>DC Resistance</u> 100Ω, 1kΩ & 10kΩ	±0.006%, ±0.006% & ±0.006%	
230.	VCET-2505	True RMS Digital Multimeter	Make: Fluke, Model:287 OR	<u>AC Voltage @ 50Hz</u> 10mV, 10V & 1000V	±0.058%, ±0.013% & ±0.014%	May 2025
			Make: GW Instek, Model: GDM-541	<u>AC Current @ 50Hz</u> 100µA, 100mA & 10A	±0.08%, ±0.053% & 0.095%	
231.	VCET-2506	True RMS Digital Multimeter	Make: Fluke, Model:287 OR	<u>DC Voltage</u> 100mV, 10V & 1000V	±0.006%, ±0.006% & ±0.006%	May 2025
			Make: GW Instek, Model: GDM-541	<u>DC Current</u> 100µA, 100mA & 10A	±0.010%, ±0.010% & ±0.050%	
				<u>DC Resistance</u> 100Ω, 1kΩ & 10kΩ	±0.006%, ±0.006% & ±0.006%	
232.	VCET-2507	True RMS Digital Multimeter	Make: Fluke, Model:287 OR	<u>AC Voltage @ 50Hz</u> 10mV, 10V & 1000V	±0.058%, ±0.013% & ±0.014%	Jul 2025
			Make: GW Instek, Model: GDM-541	<u>AC Current @ 50Hz</u> 100µA, 100mA & 10A	±0.08%, ±0.053% & 0.095%	
233.	VCET-2508	True RMS Digital Multimeter	Make: Fluke, Model:287 OR	<u>DC Voltage</u> 100mV, 10V & 1000V	±0.006%, ±0.006% & ±0.006%	Jul 2025
			Make: GW Instek, Model: GDM-541	<u>DC Current</u> 100µA, 100mA & 10A	±0.010%, ±0.010% & ±0.050%	
				<u>DC Resistance</u> 100Ω, 1kΩ & 10kΩ	±0.006%, ±0.006% & ±0.006%	

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# PROFICIENCY TESTING



234.	VCET-2509	True RMS Digital Multimeter	Make: Fluke, Model:287 OR Make: GW Instek, Model: GDM-541	<b>AC Voltage @ 50Hz</b> 10mV, 10V & 1000V  <b>AC Current @ 50Hz</b> 100µA, 100mA & 10A	±0.058%, ±0.013% & ±0.014%  ±0.08%, ±0.053% & 0.095%	Sep 2025
235.	VCET-2510	True RMS Digital Multimeter	Make: Fluke, Model:287 OR Make: GW Instek, Model: GDM-541	<b>DC Voltage</b> 100mV, 10V &1000V  <b>DC Current</b> 100µA, 100mA & 10A  <b>DC Resistance</b> 100Ω, 1kΩ & 10kΩ	±0.006%, ±0.006% & ±0.006%  ±0.010%, ±0.010% & ±0.050%  ±0.006%, ±0.006% & ±0.006%	Sep 2025
236.	VCET-2511	True RMS Digital Multimeter	Make: Fluke, Model:287 OR Make: GW Instek, Model: GDM-541	<b>AC Voltage @ 50Hz</b> 10mV, 10V & 1000V  <b>AC Current @ 50Hz</b> 100µA, 100mA & 10A	±±0.058%, ±0.013% & ±0.014%  ±0.08%, ±0.053% & 0.095%	Nov 2025
237.	VCET-2512	True RMS Digital Multimeter	Make: Fluke, Model:287 OR Make: GW Instek, Model: GDM-541	<b>DC Voltage</b> 100mV, 10V &1000V  <b>DC Current</b> 100µA, 100mA & 10A  <b>DC Resistance</b> 100Ω, 1kΩ & 10kΩ	±0.006%, ±0.006% & ±0.006%  ±0.010%, ±0.010% & ±0.050%  ±0.006%, ±0.006% & ±0.006%	Nov 2025

## ELECTRO-TECHNICAL (DC)

S.No.	PT No.	PT Item	PT Item Details	Calibration Point	Participation Criteria (CMC coarser than specified values)	Proposed Month
238.	VCET-2513	Multifunction Process Calibrator (Measure Mode)	Make: Fluke, Model: 725	<b>DC Voltage</b> 10mV, 1V &10V  <b>DC Current</b> 1mA, 10mA & 20mA  <b>DC Resistance</b> 100Ω, 1kΩ & 3kΩ	±0.060%, ±0.058% & ±0.006%  ±0.058%, ±0.010% & ±0.010%  ±0.058%, ±0.058% & ±0.019%	Jan 2025
239.	VCET-2514	Multifunction Process Calibrator (Measure Mode)	Make: Fluke, Model: 725	<b>DC Voltage</b> 10mV, 1V &10V  <b>DC Current</b> 1mA, 10mA & 20mA  <b>DC Resistance</b> 100Ω, 1kΩ & 3kΩ	±0.060%, ±0.058% & ±0.006%  ±0.058%, ±0.010% & ±0.010%  ±0.058%, ±0.058% & ±0.019%	Mar 2025
240.	VCET-2515	Multifunction Process Calibrator (Measure Mode)	Make: Fluke, Model: 725	<b>DC Voltage</b> 10mV, 1V &10V  <b>DC Current</b> 1mA, 10mA & 20mA  <b>DC Resistance</b> 100Ω, 1kΩ & 3kΩ	±0.060%, ±0.058% & ±0.006%  ±0.058%, ±0.010% & ±0.010%  ±0.058%, ±0.058% & ±0.019%	May 2025

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# PROFICIENCY TESTING



<b>241.</b>	VCET-2516	Multifunction Process Calibrator (Measure Mode)	Make: Fluke, Model: 725	<b>DC Voltage</b> 10mV, 1V & 10V	±0.060%, ±0.058% & ±0.006%	Jul 2025
				<b>DC Current</b> 1mA, 10mA & 20mA	±0.058%, ±0.010% & ±0.010%	
				<b>DC Resistance</b> 100Ω, 1kΩ & 3kΩ	±0.058%, ±0.058% & ±0.019%	
<b>242.</b>	VCET-2517	Multifunction Process Calibrator (Measure Mode)	Make: Fluke, Model: 725	<b>DC Voltage</b> 10mV, 1V & 10V	±0.060%, ±0.058% & ±0.006%	Sep 2025
				<b>DC Current</b> 1mA, 10mA & 20mA	±0.058%, ±0.010% & ±0.010%	
				<b>DC Resistance</b> 100Ω, 1kΩ & 3kΩ	±0.058%, ±0.058% & ±0.019%	
<b>243.</b>	VCET-2518	Multifunction Process Calibrator (Measure Mode)	Make: Fluke, Model: 725	<b>DC Voltage</b> 10mV, 1V & 10V	±0.060%, ±0.058% & ±0.006%	Nov 2025
				<b>DC Current</b> 1mA, 10mA & 20mA	±0.058%, ±0.010% & ±0.010%	
				<b>DC Resistance</b> 100Ω, 1kΩ & 3kΩ	±0.058%, ±0.058% & ±0.019%	

## ELECTRO-TECHNICAL (AC)

S. No.	PT No.	PT Item Details	Calibration Point	Participation Criteria (CMC coarser than specified values)	Proposed Month
<b>244.</b>	LCRET-2501	AC Inductance Box (Measure Mode)	<b>AC Inductance</b> (10mH, 100mH & 10H) @ 1 kHz	0.06%, 0.06% & 0.40%	Feb 2025
<b>245.</b>	LCRET-2502	AC Capacitance Box (Measure Mode)	<b>AC Capacitance</b> (10nF, 10μF & 100μF) @ 1 kHz	0.07%, 0.12% & 0.55%	Feb 2025
<b>246.</b>	LCRET-2503	AC Resistance Box (Measure Mode)	<b>AC Resistance</b> (1Ω, 10Ω & 1kΩ) @ 1 kHz	0.061%, 0.060% to 0.058%	Feb 2025
<b>247.</b>	LCRET-2504	AC Inductance Box (Measure Mode)	<b>AC Inductance</b> (10mH, 100mH & 10H) @ 1 kHz	0.06%, 0.06% & 0.40%	Jun 2025
<b>248.</b>	LCRET-2505	AC Capacitance Box (Measure Mode)	<b>AC Capacitance</b> (10nF, 10μF & 100μF) @ 1 kHz	0.07%, 0.12% & 0.55%	Jun 2025
<b>249.</b>	LCRET-2506	AC Resistance Box (Measure Mode)	<b>AC Resistance</b> (1Ω, 10Ω & 1kΩ) @ 1 kHz	0.061%, 0.060% to 0.058%	Jun 2025
<b>250.</b>	LCRET-2507	AC Inductance Box (Measure Mode)	<b>AC Inductance</b> (10mH, 100mH & 10H) @ 1 kHz	0.06%, 0.06% & 0.40%	Oct 2025
<b>251.</b>	LCRET-2508	AC Capacitance Box (Measure Mode)	<b>AC Capacitance</b> (10nF, 10μF & 100μF) @ 1 kHz	0.07%, 0.12% & 0.55%	Oct 2025
<b>252.</b>	LCRET-2509	AC Resistance Box (Measure Mode)	<b>AC Resistance</b> (1Ω, 10Ω & 1kΩ) @ 1 kHz	0.061%, 0.060% to 0.058%	Oct 2025



**ELECTRO-TECHNICAL (TEMPERATURE SIMULATION)**

S. No.	PT No.	PT Item	PT Item Details	Calibration Point	Participation Criteria (CMC coarser than specified values)	Proposed Month
253.	TSET-2501*	Multifunction Process Calibrator (Measure Mode)	Make: Fluke, Model: 725	K-Type (-50, 10, 100, 200, 600) °C	0.065°C	Feb 2025
254.	TSET-2502*	Multifunction Process Calibrator (Measure Mode)	Make: Fluke, Model: 725	J-Type (-50, 10, 100, 200, 600) °C	0.065°C	Feb 2025
255.	TSET-2503*	Multifunction Process Calibrator (Measure Mode)	Make: Fluke, Model: 725	R-Type (-50, 10, 100, 200, 600) °C	0.58°C	Feb 2025
256.	TSET-2504*	Multifunction Process Calibrator (Measure Mode)	Make: Fluke, Model: 725	S-Type (-50, 10, 100, 200, 600) °C	0.58°C	Feb 2025
257.	TSET-2505*	Multifunction Process Calibrator (Measure Mode)	Make: Fluke, Model: 725	RTD PT-100 (-50, 10, 100, 200, 600) °C	0.058°C	Feb 2025
258.	TSET-2506*	Multifunction Process Calibrator (Measure Mode)	Make: Fluke, Model: 725	N-Type (-50, 10, 100, 200, 600) °C	0.065°C	Feb 2025
259.	TSET-2507*	Multifunction Process Calibrator (Measure Mode)	Make: Fluke, Model: 725	K-Type (-50, 10, 100, 200, 600) °C	0.065°C	Aug 2025
260.	TSET-2508*	Multifunction Process Calibrator (Measure Mode)	Make: Fluke, Model: 725	J-Type (-50, 10, 100, 200, 600) °C	0.065°C	Aug 2025
261.	TSET-2509*	Multifunction Process Calibrator (Measure Mode)	Make: Fluke, Model: 725	R-Type (-50, 10, 100, 200, 600) °C	0.58°C	Aug 2025
262.	TSET-2510*	Multifunction Process Calibrator (Measure Mode)	Make: Fluke, Model: 725	S-Type (-50, 10, 100, 200, 600) °C	0.58°C	Aug 2025
263.	TSET-2511*	Multifunction Process Calibrator (Measure Mode)	Make: Fluke, Model: 725	RTD PT-100 (-50, 10, 100, 200, 600) °C	0.058°C	Aug 2025
264.	TSET-2512*	Multifunction Process Calibrator (Measure Mode)	Make: Fluke, Model: 725	N-Type (-50, 10, 100, 200, 600) °C	0.065°C	Aug 2025

**Note: “\*” Marked\_ These PT Programs will be organized for the preparation of NABL Audit for extension of scope in PT.**

**ELECTRO-TECHNICAL (AC)**

S. No.	PT No.	PT Item Details	Calibration Point	Participation Criteria (CMC coarser than specified values)	Proposed Month
265.	PEET-2501	Energy Reference Meter	As per Table 1	As per Table 1	Mar 2025
266.	PEET-2502	Energy Reference Meter	As per Table 1	As per Table 1	Sep 2025



# P R O F I C I E N C Y T E S T I N G



**TABLE 1**

S. No.	Parameter	Calibration Points						
		Voltage	Current	P.F	Frequency	Harmonics	Mode	CMC
1	Active Energy(kWh)	240 V	10A	1 (UPF)	50 Hz	N.A.	3-Phase 4-wire	0.011%
				0.5 (lag)				
				0.8 (lead)				
2	Reactive Energy(kVarh)	240 V	10A	1 (UPF)	50 Hz	N.A.	3-Phase 4-wire	0.011%
				0.5 (lag)				
				0.8 (lead)				
3	Active Energy (kWh)	240 V	5A	1 (UPF)	50 Hz	N.A.	3-Phase 4-wire	0.011%
				0.5 (lag)				
				0.8 (lead)				
4	Reactive Energy (kVarh)	240 V	5A	1 (UPF)	50 Hz	N.A.	3-Phase 4-wire	0.011%
				0.5 (lag)				
				0.8 (lead)				
5	Active Energy (kWh)	240 V	1A	1 (UPF)	50 Hz	N.A.	3-Phase 4-wire	0.011%
				0.5 (lag)				
				0.8 (lead)				
6	Reactive Energy (kVarh)	240 V	1A	1 (UPF)	50 Hz	N.A.	3-Phase 4-wire	0.011%
				0.5 (lag)				
				0.8 (lead)				
7	AC Voltage @ 50Hz	110 V	N.A.	1 (UPF)	50 Hz	N.A.	3-Phase 4-wire	0.007%
		240 V						
		300 V						
8	AC Current @ 50Hz	240V	100mA	1 (UPF)	50 Hz	N.A.	3-Phase 4-wire	0.009%
			10A					
9	Power Factor @ 3-Phase 4-Wire Mode	240 V	5A	0.5 (lag)	50 Hz	N.A.	3-Phase 4-wire	0.0005 pf
				1 (UPF)				
				0.5 (lead)				
10	Frequency	240 V	5A	1 (UPF)	45 Hz	N.A.	3-Phase 4-wire	0.017%
					50 Hz			
					65 Hz			
11	3rd Harmonics in Current Circuit (Active Energy)	240 V	10A	1 (UPF)	N.A	40% in Current	3-Phase 4-wire	0.011%
		240 V	5A			10% in Current		
		30 V	1A			1% in Current		
12	5th Harmonics 40% in Current & 10% in Voltage(Active Energy)	240 V	10A	1 (UPF)	N.A.	40% in Current	3-Phase 4-wire	0.011%
		240 V	5A			10% in Current		
		30 V	1A					