

SN	Category	Subcategory	PT Item Name	Parameter	Range	Measurement Points	Participation Criteria	Round Schedule	PT Charges
<b>Discipline - Mechanical Calibration</b>									
<b>Sequential PT Round in Petal Format</b>									
1	Dimension (Basic-Measuring Instrument, Gauges etc.)	Dimension	Plunger Dial Gauge	Instrumental Error	0-1 mm (L.C.0.001 mm)	Plunger In / Out 0.05mm,0.12mm,0.56 mm, 0.78mm,1.00mm	The CMC of participant laboratory should be coarser than 1 µm	Running Round	<del>₹ 8500</del> ₹ 7000
2	Dimension (Basic-Measuring Instrument, Gauges etc.)	Gauges	Taper Ring Gauge	Outer Diameter	up to 100 mm	∅ 5.00 mm ∅36.50 mm ∅ 98.00 mm	The CMC of participant laboratory should be coarser than 1 µm	Running Round	<del>₹ 8500</del> ₹ 7000
3	Dimension (Basic-Measuring Instrument, Gauges etc.)	Gauges	Thread Ring Gauges	Simple Effective Diameter	up to 100 mm	M 5 X 0.8 -6g NOGO, M 40 X 3.0 -6g GO and G3 B ISO-228 NOGO Thread Ring Gauges	The participant laboratory's CMC should be coarser than 1.5 µm	Running Round	<del>₹ 8500</del> ₹ 7000
4	Dimension (Precision- Precision Instruments)	Linear – Reference (Measuring) Equipment	SS Gauge Blocks	Central Length Deviation	up to 100 mm	1.5, 40 & 90 mm	The participant laboratory's CMC should be coarser than 0.04 + L/ 3000 µm	Running Round	<del>₹ 10000</del> ₹ 8500
5	Dimension (Basic-Measuring Instrument, Gauges etc.)	Dimension	Digital Caliper	Instrumental Error	0-300 mm L.C. - 0.01 mm	Ext. Measurements 50mm, 150mm,250mm Int. Measurements 50mm, 150mm,250mm Depth Measurements 50mm	The CMC of participant lab. should be coarser than 11 µm	Running Round	<del>₹ 8500</del> ₹ 7000
6	Dimension (Basic-Measuring Instrument, Gauges etc.)	Gauges	Taper Ring Gauge	Diameter & Angle	Upto 50mm	∅ 35mm & Angle 2.5° ∅ 25mm & Angle 1°	The CMC of participant lab. Should be coarser than 1.8µm	Running Round	<del>₹ 8500</del> ₹ 7000
7	Dimension (Basic-Measuring Instrument, Gauges etc.)	Gauges	Taper Plug Gauge	Diameter & Angle	Upto 50mm	∅ 50mm & Angle 7° ∅ 38mm & Angle 3.5°	The CMC of participant lab. should be coarser than 1.4 µm and 18"	Running Round	<del>₹ 8500</del> ₹ 7000

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11	Dimension (Basic-Measuring Instrument, Gauges etc.)	Gauges	Taper Thread Plug Gauge	Simple Effective Diameter	up to 50 mm	4-8 NPT (BASIC) 4-11 BSPT SY -B	The CMC of participating lab. should be coarser than 2.5 $\mu\text{m}$	Running Round	<del>₹ 8500</del> ₹ 7000
12	Dimension (Basic-Measuring Instrument, Gauges etc.)	Gauges	Thread Plug Gauge	Simple Effective Diameter	up to 50 mm	M8 X 1.25 6H Go M36 X 1.5 7H Go	The CMC of participating lab. should be coarser than 2.3 $\mu\text{m}$	Running Round	<del>₹ 8500</del> ₹ 7000
13	Dimension (Basic-Measuring Instrument, Gauges etc.)	Gauges	Master Ring	Diameter	up to 100mm	5mm,26mm and 76mm	The participation Laboratory should have CMC coarser than 0.7 $\mu\text{m}$	Running Round	<del>₹ 8500</del> ₹ 7000
14	Dimension (Basic-Measuring Instrument, Gauges etc.)	Dimension	Granite Surface Plate (On Site)	Flatness	1000 X 630 mm	NA	The participating Laboratory should have CMC coarser than 3.5 $\mu\text{m}$	Running Round	<del>₹ 8500</del> ₹ 7000
15	Dimension (Basic-Measuring Instrument, Gauges etc.)	Gauges	Feeler Gauge	Thickness	up to 1 mm	Three Leaf	The participation Laboratory should have CMC coarser than 0.7 $\mu\text{m}$	Running Round	<del>₹ 8500</del> ₹ 7000
16	Dimension (Basic-Measuring Instrument, Gauges etc.)	Gauges	Cylindrical Pins	External Diameter	Up to 20 mm	Three Pins	The participation Laboratory should have CMC coarser than 0.7 $\mu\text{m}$	Running Round	<del>₹ 8500</del> ₹ 7000
17	Dimension (Basic-Measuring Instrument, Gauges etc.)	Dimension	Analog Durometer	Hardness Shore A and Shore D	0 - 100	Shore A - 10, 30, 50, 70, 90 Shore D - 10, 30, 50, 70, 90	The participation Laboratory should have estimated uncertainty coarser than 0.6 shore for Shore A and for Shore D	Expected to Start in Jan 25- Last Week	<del>₹ 10000</del> ₹ 8000 (Per Parameter) For both ₹ 12000.00

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18	Dimension (Basic-Measuring Instrument, Gauges etc.)	Dimension	Digital External Micrometer	Instrumental Error	0- 25 mm	2.5 , 10.3, 25 mm	The participation Laboratory should have CMC coarser than 1.1 μm	Running Round	<del>₹ 8500</del> ₹ 7000
19	Dimension (Precision- Precision Instruments and Surface Topology)	Electronic Height Gauge	2D Digital Height Gauge	Instrumental Error	0-600 mm	50,100,200,450 & 600 mm	The participation Laboratory should have CMC coarser than 5 μm	Expected to Start in Jan 25 - Last Week	₹10,000.00
20	Dimension (Basic-Measuring Instrument, Gauges etc.)	Length	Dial Thickness Gauge	Length	0-10mm L.C. 0.01mm	2.5 mm, 5.1mm and 7.7mm	The participation Laboratory should have CMC coarser than 3.0 μm	Expected to start Feb 25- Last week	₹ 7000
21	Dimension (Basic-Measuring Instrument, Gauges etc.)	Depth Micrometer	Depth Micrometer	Instrumental Error	0-25mm L.C. 0.001mm	2.5 mm, 10mm and 25mm	The participation Laboratory should have CMC coarser than 1.0μm	Expected to start Mar 25- 3rd week	₹ 7000
22	Dimension (Basic-Measuring Instrument, Gauges etc.)	Measuring Tape	Measuring Tape	Instrumental Error	0-5 mtr	10mm, 50mm, 100mm, 1000mm, 3000 mm and 5000mm	The participation Laboratory should have CMC coarser than ±50 μm √L - L is in meter	Expected to Start Apr 25- Last week	₹ 7000
23	Dimension (Basic-Measuring Instrument, Gauges etc.)	Go-NOGO Snap Gauges	Snap Gauge	Gap Size	75mm	75mm Go and NOGO	The participation Laboratory should have CMC coarser than 1.0μm	Expected to start Feb 25- Last week	₹ 7000
24	Pressure & Vacuum Gauge	Industrial Pressure Gauge (Ana/Dig)	Digital Pneumatic Pressure Gauge	Pressure	0 - 50 bar L.C.0.01 bar	5,10,15,20 and 35 bar	The CMC of participating lab. Should be coarser than 0.008% rdg	Running Round	₹ 11,500.00
25	Pressure & Vacuum Gauge	Industrial Pressure Gauge (Ana/Dig)	Hydraulic Pressure Gauge	Pressure	0-700 bar L.C. 0.01 bar	100,200,350,500 and 650 bar	The CMC of participating lab. Should be coarser than 0.009% rdg	Running Round	<del>₹ 14000</del> ₹ 11500

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26	Pressure & Vacuum Gauge	Industrial Pressure Gauge (Ana/Dig)	Hydraulic Pressure Gauge (Low)	Pressure	0-200 bar L.C. 0.01 bar	50,100,125,150,175 bar	The CMC of participating lab. Should be coarser than 0.009% rdg	Running Round	<del>₹ 14000</del> ₹ 11500
27	Pressure & Vacuum Gauge	Industrial Pressure Gauge (Ana/Dig)	Digital Vacuum Gauge	Pressure	-1 to 0 bar L.C. 0.01 bar	-0.1,-0.3,-0.5,-0.7 and -0.8 bar	The CMC of participating lab. Should be coarser than 0.008% rdg	Running Round	<del>₹ 14000</del> ₹ 11500
28	Pressure & Vacuum Gauge	Industrial Pressure Gauge (Ana/Dig)	Analog Hydraulic Pressure Gauge	Pressure	0-600 bar L.C. 5 bar	50,200,300,400 & 550 bar	The CMC of participating lab. should be coarser than 0.009% rdg	Running Round	<del>₹ 14000</del> ₹ 11500
29	Pressure & Vacuum Gauge	Industrial Pressure Gauge (Ana/Dig)	Absolute Pressure Gauge	Pressure	0- 4 bar	0.5 bar, 1 bar, 1.5 bar , 2 bar , 2.5 bar	The participation Laboratory should have CMC coarser than 0.003% rdg (abs)	Expected to start Mar 25 - 1st Week	<del>₹ 14000</del> ₹ 12500
30	Force	Force	Load Cell	Force	upto 500 N L.C.0.01 N	50,100,150,200,250,300,350,400,450 and 500 N	The participant laboratory's CMC should be coarser than 0.03% rdg	Running Round	<del>₹ 14000</del> ₹ 11500
31	Force	Force	Push Pull Gauge (Force Gauge)	Force	up to 1000 N L.C. 0.1 N	10,20,50,70 and 100% of Range	The CMC of participating lab. should be coarser than 0.01%	Running Round	<del>₹ 14000</del> ₹ 11500
32	Torque Generating & Measuring devices	Torque Transducer	Torque Sensor	Torque	up to 1000Nm L.C. 0.1Nm	100,200,300, 400,500,600,700,800,900 & 1000 Nm	The CMC of participating lab. should be coarser than 0.03%	Running Round	<del>₹ 45000</del> ₹ 36000

SN	Category	Subcategory	PT Item Name	Parameter	Range	Measurement Points	Participation Criteria	Round Schedule	PT Charges
33	Torque Generating & Measuring devices	Torque Wrenches (Type I & II)	Digital Torque Wrench	Torque	Range 1-500 Nm L.C.0.1 Nm	50,300, 500Nm	The CMC of participating lab. should be coarser than 0.1%	Running Round	<del>₹ 15000</del> ₹ 12000
34	Mass and Volume	Mass	Digital Weighing Balance (On site)	Mass	220 g 3000g E1 &E2 Class	For 220 g - 50 g,100g and 200 g- Participant can use only E1 Class Weights For 3000g - 50g,100g,200g,500g,1000g,1500g and 2000g-	The participation Laboratory should have CMC coarser than 0.025 mg for 220 g & 42 mg for 3000g	Running Round	<del>₹ 14700</del> ₹ 11500 (per balance)
35	Mass and Volume	Mass	F1 Class Weights	Mass	up to 500 g	2g,20g,200g & 500 g	The participant laboratory's CMC should be coarser than 0.002 mg for 2 g, 0.005 mg for 20g, 0.026 mg for 200 g and 0.25 mg for 500 g	Running Round	<del>₹ 14000</del> ₹ 11500
36	Mass and Volume	Mass	Digital Weighing Balance Class III Resolution 10 mg	Mass	0-10Kg F1 or Better	For 200g, 500g, 1Kg, 5 Kg and 10Kg- Participant can use only F1 or better Class Weights	The participation Laboratory should have for CMC coarser to 205 mg	Expected to Start in Mar-25 1st Week	<del>₹ 14700</del> ₹ 11500
37	Acoustics	Sound Level Meters	Sound Level Meter	Sound Level	94dBA	94dBA @1KHz	The participation Laboratory should have CMC coarser than 0.8 dBA	Expected to start Jan 25- 2nd week	₹ 7000

**Discipline - Electro-Technical Calibration**

**Sequential PT Round in Petal Format**

38	Alternating Current (<1GHz) Direct Current	High Voltage	HV Probe / Divider with Digital Multimeter	AC / DC High Voltage	DC V -1kV- 40kV AC V- 1kV-28kV	AC- 1,5,10,15 and 25 kV DC -1,10,20,30 and 40 kV	The participant laboratory's CMC should be greater than 1.4% for AC & DC High Voltage	Expected to start Feb 25- Last week	₹ 15000
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SN	Category	Subcategory	PT Item Name	Parameter	Range	Measurement Points	Participation Criteria	Round Schedule	PT Charges
39	Temperature Simulation	Temperature Simulation	Process Calibrator - Source Mode	Temperature Simulation	Type K , PT 100 Type S, Type J	Type K- 35, 275, 515,790 and 1065°C RTD PT 100 - 50,180,410,590 and 770 °C Type S - 50,370,690,1010 and 1330 in °C Type J- 35, 275, 515,790 and 1065°C	The participation Laboratory should have uncertainty coarser than 0.15 °C for K Type and 0.09 °C for RTD PT 100 Sensor 0.12 °C for J Type and 0.48 °C for s Type	Running Round	<del>₹ 20000</del> ₹ 10000 for any two parameters  for four parameter ₹ 15000
40	Alternating Current (<1GHz) Alternating Voltage	Current Voltage	Digital Multimeter 3 1/2 Resolution Make: Fluke Source Mode	Current DC & DC Voltage Current AC & AC Voltage 50Hz	DC Voltage: 50mV to 980V DC Current: 100µA to 5A AC Voltage:50mv to 980V AC Current: 100µA to 5A	DC Voltage - 2mV,200mV,2V,200V, 1000V DC Current - 10mA, 100mA, 1A,5A, 10A AC Current - 100mV, 200mV,2V,200V,700V at Frequency 50Hz AC Voltage - 10mA, 100mA,1A,5A, 10A at Frequency 50Hz	The participation Laboratory should have uncertainty coarser than 3.04% to 0.029% for DC Voltage   0.128% to 0.058% for DC Current 0.083% to 0.06% for AC Voltage   0.182% to 0.078% for AC Current	Running Round	<del>₹ 20000</del> ₹ 8500 (Per Parameter)  For both AC& DC parameters ₹ 15000.00
41	Frequency and Resistance	Frequency AC/ DC Current	Digital Multimeter 4 1/2 Resolution Make: GW Instake	Frequency DC Resistance	DC Resistance (220 MΩ) Frequency (10MHz)	100Ω, 1kΩ, 10kΩ,1 MΩ,20 MΩ  50Hz, 1kHz,10kHz,50kHz,100k Hz	The participating Laboratory should have uncertainty coarser than 0.0003 % to 0.025 % for DC Resistance   0.0002% for Frequency.	Running Round	₹ 20000 ₹ 8500 (Per Parameter) For both parameters ₹ 15000.00

SN	Category	Subcategory	PT Item Name	Parameter	Range	Measurement Points	Participation Criteria	Round Schedule	PT Charges
42	Alternating Current (<1GHz) Alternating Voltage	Current Voltage	Digital Multimeter 4 1/2 Resolution Make:Rishabh Source Mode	Current AC & AC Voltage 50Hz Current DC and DC Voltage	AC Voltage:30mv - 1000V AC Current: 270µA to 5A DC Voltage: 30mVto 1000V DC Current 270µA to 5A	30mV, 2.7V, 30V, 300 V, 1000 V at Frequency 50Hz 270µA, 1.5 mA, 27mA, 270mA,2.7A, 5A at Frequency 50Hz 30mV, 2.7V, 30V, 300 V, 1000 V 270µA, 1.5 mA, 27mA, 270mA,2.7A, 5A	The participation Laboratory should have uncertainty coarser than 0.016% to 0.038% for AC Voltage & 0.055% to 0.155% for AC Current 0.006% to 0.038% for DC Voltage & 0.047% to 0.068% for DC Current	Running Round	<del>₹ 20000</del> ₹ 8500 (Per Parameter) For both AC& DC parameters ₹ 15000.00
43	Alternating Current (<1GHz) Direct Current	AC Resistance (at 1Kz) Capacitance (at 1Kz) Inductance (at 1Kz)	LCR Meter	AC Resistance (at 1Kz) Capacitance (at 1Kz) Inductance (at 1Kz)	(at 1KHz) AC Resistance – 1 Ω to 10 K Ω Capacitance -1nF – 10µF Inductance - 100µH- 1H	AC Resitance 1 Ω, 10 Ω, 100 Ω,1K Ω& 10K Ω Capacitance - 1nF,10nF,100nF,1 F &,100 F Inductance - 100 H, 1mH, 10mH, 100mH,1H µ	The participation lab should have uncertainty coarser than For Range 100 uH to 1 H – Inductance 0.09% to 0.386%   For Range 1nF to 1 uF – Capacitance 0.061% For Range 1 Ω to 10KΩ – AC Resistance 0.07%	Open (Each PT round is of 5-10 Participants)	<del>₹ 10000</del> ₹ 8500
<b>Discipline - Thermal Calibration</b>									
<b>Sequential PT Round in Petal Format</b>									
44	Specific Heat & Humidity	Humidity	Hygrometer	Humidity	Rh 5% to 95% at 25°C to 50°C L.C.0.01%	Humidity 20%Rh, 30%Rh,50%Rh, 70%Rh & 80%Rh @ 25°C	The participant laboratory's CMC should be greater than 0.45 %Rh	Running Round	₹ 10,000.00
45	Specific Heat & Humidity	Humidity	Hygrometer	Temperature	Temp up to 50°C L.C. 0.01°C	10°C, 20°C, 30°C,40°C to 50°C @50%RH	The participant laboratory's CMC should be greater than 0.45°C	Expected to Start Apr 25- Last week	<del>₹ 10000</del> ₹ 8500

SN	Category	Subcategory	PT Item Name	Parameter	Range	Measurement Points	Participation Criteria	Round Schedule	PT Charges
45	Specific Heat & Humidity	Humidity	Hygrometer	Temperature	Temp up to 50°C L.C. 0.1°C	10°C, 20°C, 30°C,40°C to 50°C @50%RH	The participant laboratory's CMC should be coarser than 0.45°C	Expected to Start Apr 25- Last week	<del>₹ 10000</del> ₹ 8500
46	Radiation Pyrometer	Temperature	IR Sensor	Temperature	upto 1200°C L.C. 0.1 °C	100°C, 350°C,700°C,950°C & 1200°C,	The participant laboratory's CMC should be coarser than 2.44 °C	Running Round	<del>₹ 14000</del> ₹ 8500
47	Temperatures Indicator with Sensor	Temperature	RTD PT 100 Sensor with Display 0.01 °C	Temperature	0°C to 250°C L.C.0.01°C	50°C, 100°C, 150°C,200°C & 250°C	The Participant Laboratory's CMC should be coarser than 0.08°C	Running Round	<del>₹ 12000</del> ₹ 8500
48	Temperatures Indicator with Sensor	Temperature	RTD PT 100 Sensor with Display 0.01 °C	Temperature	-50°C to 250°C L.C.0.01°C	-50°C, 57°C, 125°C, 175°C, & 225°C,	The Participant Laboratory's CMC should be coarser than 0.08°C	Running Round	<del>₹ 12000</del> ₹ 8500
49	Thremo couple (Without indicator)	Temperature	S Type Thermocouple	Temperature	S Type 400°C to 900°C	400°C, 500°C, 650°C,800°C and 900°C	the participant laboratory should have CMC coarser than 1.5 °C	Running Round	<del>₹ 12000</del> ₹ 8500

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Every new PT round will start with minimum 5 PT registration for that PT round ; We consider and allow minimum 5- 10 participants in one PT round

GST / IGST as applicable 18% extra will be applicable, in addition to the above mentioned charges.