

SN	Category	Subcategory	PT Item Name	Parameter	Range	Measurement Points	Participation Criteria	Round Schedule	PT Charges
Discipline - Mechanical Calibration									
Sequential PT Round in Petal Format									
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	₹ 8500 ₹ 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	₹ 8500 ₹ 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	₹ 8500 ₹ 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	₹ 10000 ₹ 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	₹ 8500 ₹ 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	₹ 8500 ₹ 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	₹ 8500 ₹ 7000

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8	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 µm	Running Round	₹ 8500 ₹ 7000
9	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 µm	Running Round	₹ 8500 ₹ 7000
10	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 µm	Running Round	₹ 8500 ₹ 7000
11	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 µm	Running Round	₹ 8500 ₹ 7000
12	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 µm	Running Round	₹ 8500 ₹ 7000
13	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 µm	Running Round	₹ 8500 ₹ 7000
14	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	₹ 10000 ₹ 8000 (Per Parameter) For both ₹ 12000.00



PT Calendar JAN. 25 - DEC. 25

Octagon Measurement Solutions Pvt. Ltd.
Lab Address :S.No.15 A/2, J7-J8, GKD Industrial Estate, Nandedgaon,
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SN	Category	Subcategory	PT Item Name	Parameter	Range	Measurement Points	Participation Criteria	Round Schedule	PT Charges
15	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	₹ 8500 ₹ 7000

16	Dimension (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 μ m	Expected to Start in Jan 25 - Last Week	₹10,000.00
17	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 μ m	Expected to start Feb 25- Last week	₹ 7000
18	Dimension (Basic-Measuring Instrument, Gauges etc.)	Depth Micrometer	Depth Micrometer	Instrumental Error	0-25mm L.C. 0.01mm	2.5 mm, 10mm and 25mm	The participation Laboratory should have CMC coarser than 6 μ m	Expected to start Mar 25- 3rd week	₹ 7000
19	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 $\pm 50 \mu$ m VL - L is in meter	Expected to Start Apr 25- Last week	₹ 7000
20	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 1.0 μ m	Expected to start Feb 25- Last week	₹ 7000
21	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
22	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	₹ 14000 ₹ 11500



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23	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	₹ 14000 ₹ 11500
24	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	₹ 14000 ₹ 11500

25	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	₹ 14000 ₹ 11500
26	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	₹ 14000 ₹ 12500
27	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	₹ 14000 ₹ 11500
28	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	₹ 14000 ₹ 11500
29	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	₹ 45000 ₹ 36000



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SN	Category	Subcategory	PT Item Name	Parameter	Range	Measurement Points	Participation Criteria	Round Schedule	PT Charges
30	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	₹ 15000 ₹ 12000
31	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	₹ 14700 ₹ 11500 (per balance)

32	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	₹ 14000 ₹ 11500
33	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	₹ 14700 ₹ 11500
34	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

35	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
36	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	₹ 20000 ₹ 10000 for any two parameters for four parameter ₹ 15000

37	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	₹ 20000 ₹ 8500 (Per Parameter) For both AC & DC parameters ₹ 15000.00
38	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, 100kHz	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



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39	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: 30mV to 1000V DC Current: 270µA to 5A	30mV, 2.7V, 30V, 300V, 1000V at Frequency 50Hz 270µA, 1.5 mA, 27mA, 270mA, 2.7A, 5A at Frequency 50Hz 30mV, 2.7V, 30V, 300V, 1000V 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	₹ 20000 ₹ 8500 (Per Parameter) For both AC & DC parameters ₹ 15000.00

40	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 Resistance 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)	₹ 10000 ₹ 8500
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Discipline - Thermal Calibration

Sequential PT Round in Petal Format

41	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
42	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	₹ 10000 ₹ 8500



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SN	Category	Subcategory	PT Item Name	Parameter	Range	Measurement Points	Participation Criteria	Round Schedule	PT Charges
43	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	₹ 10000 ₹ 8500
44	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	₹ 14000 ₹ 8500
45	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	₹ 12000 ₹ 8500

46	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	₹ 12000 ₹ 8500
47	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	₹ 12000 ₹ 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.