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MEASURED QUANTITIES/ INSTRUMENTS/ RANGE TO BE CALIBRATED	METHOD	CALIBRATION & MEASUREMENT CAPABILITY (CMC*)
13) > 1 500 psi to 3 000 psi	) MTD/CAL-05: 2016	0.16 psi
14) > 3 000 psi to 4 500 psi	) BS EN 837-1 & 3: 1998	0.36 psi
15) > 4 500 psi to 6 000 psi	) DIN 16005: 1987	0.48 psi
16) > 6 000 psi to 7 500 psi	)	0.61 psi
17) > 7 500 psi to 9 000 psi	)	0.73 psi
18) > 9 000 psi to 10 100 psi	)	0.80 psi
19) > 10 100 psi to 15 000 psi	)	2 psi
20) > 15 000 psi to 17 000 psi	)	11 psi
21) > 17 000 psi to 22 000 psi	)	12 psi
22) > 22 000 psi to 30 000 psi	)	14 psi
23) > 30 000 psi to 36 000 psi	)	16 psi
24) > 36 000 psi to 50 000 psi	)	20 psi
25) > 50 000 psi to 60 000 psi	)	24 psi
Barometric Pressure Devices)	
1) ≥ -50 Pa to -500 Pa	)	1.4 Pa
2) > -501 Pa to -1 000 Pa	)	1.9 Pa
3) > -1 001 Pa to -2 500 Pa	)	2.4 Pa
4) > -2 501 Pa to -5 000 Pa	)	3.9 Pa
5) -51 mbar to -1 000 mbar	)	0.2 mbar
Barometric Pressure Devices)	
1) ≥ 150 to 1150 hPa	)	0.1 hPa
A.2 FORCE MEASURING DEVICES (Lab/Site)		
- Adhesion Tester		
- Force Gauge		
- Load Cells		
- Hydraulic Load Cells		
- Crane Scale		
- Dynamometer		
- Proving Rings		
- Spring Load Tester		
- Spring Scale		
- Hydraulic Jacks		
- Universal Testing Machine		
- Load Testing Machine		
- Compression Testing Machine		
- Tension Testing Machine		
- Lever Type Creep - Rupture		

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<p>Testing Machines</p> <p>- Frame Alignment Test (Offset Test on Concrete Testing Machine)</p> <p>In Compression Mode</p> <p>1 Using dead weights</p> <p>Up to 10 000 mN</p> <p>> 10 0001 mN to 50 000 mN</p> <p>> 50 001 mN to 200 000 mN</p> <p>> 200 000 mN to 1 000 000 mN</p> <p>> 1 000 000 mN to 3 000 000 mN</p> <p>>3 000 000 mN to 8 000 000 mN</p> <p>2 Using load cells</p> <p>Up to 500 mN</p> <p>> 50 mN to 1 000 mN</p> <p>> 1 000 mN to 3 000 mN</p> <p>> 3 000 mN to 5 000 mN</p> <p>> 5 000 mN to 10 000 mN</p> <p>> 10 000 mN to 100 000 mN</p> <p>> 100 000 mN to 300 000 mN</p> <p>> 300 000 mN to 400 000 mN</p> <p>> 400 000 mN to 600 000 mN</p> <p>> 600 000 mN to 800 001 mN</p> <p>> 800 000 mN to 1000 000 mN</p> <p>> 1 000 N to 2 000 N</p> <p>> 2 000 N to 10 000 N</p> <p>> 10 000 N to 20 000 N</p> <p>> 20 000 N to 30 000 N</p> <p>> 30 000 N to 40 000 N</p> <p>> 40 000 N to 50 000 N</p> <p>> 50 000 N to 300 000 N</p> <p>> 300 000 N to 400 000 N</p> <p>> 400 000 N to 450 000 N</p> <p>> 450 000 N to 600 000 N</p> <p>> 600 000 N to 1 200 000 N</p> <p>> 1 200 000 N to 2 400 000 N</p> <p>> 2 400 000 N to 3 000 000 N</p>	<p>) MTD/CAL-01 : 2016</p> <p>) MTD/CAL-06 : 2016</p> <p>) BS EN ISO 7500: 2015</p> <p>) ASTM E4: 2016</p> <p>) MTD CAL-39 : 2015</p> <p>) BS EN ISO 376 : 2011</p> <p>)</p> <p>)</p> <p>) MTD/CAL-01 : 2016</p> <p>) BS EN ISO 7500: 2015</p> <p>) ASTM E4: 2016</p> <p>) MTD CAL-26 : 2016</p> <p>) BS 1881 : Pt 115 : 1986</p> <p>- Platen Self-Alignment</p> <p>) BS EN 12390 - 4 : 2000</p> <p>) SS 78 : Pt A15 : 1987</p> <p>- Frame Alignment Test :</p> <p>2 000 000 N only</p> <p>) MTD CAL-39 : 2015</p> <p>) BS EN ISO 376 : 2011</p> <p>)</p> <p>) MTD CAL-25 : 2018</p> <p>) ASTM E10: 2017</p> <p>) ASTM E18: 2017e1</p> <p>) ASTM E92: 2017</p> <p>) ASTM E384: 2017</p> <p>) BS EN ISO 6506-2: 2014</p> <p>) BS EN ISO 6507-2: 2005</p> <p>) BS EN ISO 6508-2: 2015</p> <p>)</p> <p>)</p> <p>)</p> <p>)</p> <p>)</p> <p>)</p> <p>)</p> <p>)</p> <p>)</p> <p>)</p>	<p>0.07 mN</p> <p>0.6 mN</p> <p>7 mN</p> <p>59 mN</p> <p>1 000 mN</p> <p>2 000 mN</p> <p>0.8 mN</p> <p>1 mN</p> <p>2 mN</p> <p>3 mN</p> <p>4 mN</p> <p>10 mN</p> <p>80 mN</p> <p>300 mN</p> <p>400 mN</p> <p>500 mN</p> <p>600 mN</p> <p>1 N</p> <p>2 N</p> <p>3 N</p> <p>4 N</p> <p>5 N</p> <p>6 N</p> <p>50 N</p> <p>160 N</p> <p>180 N</p> <p>480 N</p> <p>740 N</p> <p>1 290 N</p> <p>1 560 N</p>

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In Tension Mode) MTD/CAL-01 : 2016	
1) Using dead weights) MTD/CAL-06 : 2016	
Up to 10 000 mN) BS EN ISO 7500: 2015	0.0001 N
> 10 000 mN to 50 000 mN	) ASTM E4: 2016	0.0006 N
> 5 N to 20 N	) MTD CAL-39 : 2015	0.001 N
>20 N to 200 N	) BS EN ISO 376 : 2011	0.007 N
>200 N to 1 000 N	)	0.1 N
>1 000 N to 3 000 N	)	1.0 N
)	
2) Using load cells)	
0 N to 1.5 N	)	0.002 N
1.6 N to 2.5 N	)	0.003 N
> 2.5 N to 200 N	)	0.2 N
> 200 N to 400 N	)	0.3 N
> 400 N to 600 N	)	0.4 N
> 600 N to 800 N	)	0.5 N
> 800 N to 1 000 N	)	0.6 N
> 1 000 N to 2 000 N	)	0.8 N
> 2 000 N to 5 000 N	)	3 N
> 5 000 N to 10 000 N	)	5 N
> 10 000 N to 12 000 N	)	8 N
> 12 000 N to 100 000 N	)	10 N
> 100 000 N to 200 000 N	)	100 N
> 200 000 N to 300 000 N	)	120 N
> 300 000 N to 400 000 N	)	160 N
> 400 000 N to 450 000 N	)	180 N
)	
3) Using Universal Testing Machine)	
> 450 000 N to 950 000 N	)	4 000 N
A.3 HARDNESS TESTING MACHINE (Lab/Site)		
1. Brinell Scale	) MTD/CAL-25 :2018	
	) ASTM E10: 2017	
i) Indirect Verification) BS EN ISO 6506-2 : 2014	
HBW ≤ 125 (1/10))	0.004 mm
125 < HBW ≤ 225 (1/10))	0.002 mm
HBW > 225 (1/10))	0.002 mm

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HBW ≤ 125 (1/30)) MTD/CAL-25 :2018	0.002 mm
125 < HBW ≤ 225 (1/30)) ASTM E10: 2017	0.001 mm
HBW > 225 (1/30)) BS EN ISO 6506-2 : 2014	0.004 mm
)	
HBW ≤ 125 (10/3000)	)	0.02 mm
125 < HBW ≤ 225 (10/3000)	)	0.02 mm
HBW > 225 (10/3000)	)	0.02 mm
)	
ii) Indenter Measurement (Ball Diameter) Up to 10.0 mm	)	0.0003 mm
)	
iii) Measuring Scope Up to 6.0 mm	)	0.002 mm
)	
2. Vickers Scale	) MTD/CAL-25 :2018	
	) ASTM E384: 2017	
i) Indirect Verification	) ASTM E92: 2017	
a. Vickers (microindentation)	) BS EN ISO 6507-2 : 2005	
>1 000 HV (load @ 100 gf)	)	0.2 µm
(load @ 200 gf)	)	0.2 µm
(load @ 300 gf)	)	0.2 µm
(load @ 500 gf)	)	0.3 µm
(load @ 1 000 gf)	)	0.4 µm
)	
b. Vickers)	
>1 000 HV (load @ 5 kgf)	)	2.0 µm
(load @ 10 kgf)	)	2.0 µm
(load @ 30 kgf)	)	6.0 µm
)	
i) Measuring Device Indenter Angle (deg))	0.03 deg
)	
ii) Measuring Scope)	
Up to 300 µm)	0.1 µm
300 µm to 500 µm)	0.2 µm

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3. Rockwell Scale) MTD/CAL-25 :2018	
) ASTM E18: 2017e1	
i) Indirect Verification) BS EN ISO 6508-2 : 2015	
20 to 40 HRA	)	0.4 HRA
70 to 75 HRA	)	0.4 HRA
80 to 84 HRA	)	0.2 HRA
40 to 50 HRBw	)	0.5 HRBw
60 to 79 HRBw	)	0.4 HRBw
85 to 100 HRBw	)	0.6 HRBw
20 to 30 HRC	)	0.2 HRC
35 to 51 HRC	)	0.3 HRC
60 to 65 HRC	)	0.2 HRC
70 to 77 HR15N	)	0.5 HR15N
78 to 88 HR15N	)	0.5 HR15N
90 to 92 HR15N	)	0.5 HR15N
42 to 52 HR30N	)	0.3 HR30N
55 to 73 HR30N	)	0.3 HR30N
77 to 82 HR30N	)	0.6 HR30N
)	
ii) Indenter Measurement)	
Indenter Angle (°) $120^\circ \pm 0.1^\circ$	)	0.03 degree
Tip Radium (mm) 0.2 ± 0.005 mm	)	0.006 mm
Ball Diameter (mm) 1.588 mm	)	0.001 mm
)	
4. Direct Verification of Durometer (Lab)	) MTD/CAL-24: 2016	
(Rubber Hardness Tester)	) ASTM D2240: 2015	
)	
)	
Shore A, B, C, D, DO, O, JA, JC, HAD & HDD	)	0.1 Div
)	
Indenter Length (mm)	)	0.004 mm
Indenter Diameter (mm)	)	0.004 mm
Indenter Tip Diameter (mm))	0.004 mm
Bore Diameter (mm))	0.004 mm
Indenter Angel (degree))	0.04 degree

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A.4 BALANCES AND WEIGHING SCALES (Lab/Site)		
1) 0 to 5 000mg) MTD/CAL-07: 2018	0.02 mg
2) 5 000 mg to 20 000 mg	)	0.03 mg
3) 20 000 to 60 000 mg	)	0.07 mg
4) 60 000 to 200 000 mg	)	0.2 mg
5) 200 to 300 g	)	0.0008 g
6) 300 g to 400 g	)	0.001 g
7) 400 to 1 200 g	)	0.002 g
8) 1 200 to 6 000 g	)	0.02 g
9) 6 000 to 30000 g	)	0.1 g
10) 30 to 60 kg	)	0.0004 kg
11) 64 to 150 kg	)	0.002 kg
12) 150 to 300 kg	)	0.02 kg
13) 300 to 1 000 kg	)	0.2 kg
14) 1 000 to 1 500 kg	)	0.6 kg
A.5 WEIGHTS		
i) Standard Weights (Lab)	) MTD/CAL-10 : 2018	
1) 1 mg to 200 mg	)	0.00002 g
2) 500 mg to 1 g	)	0.00003 g
3) 2 g	)	0.00004 g
4) 5 g	)	0.00005 g
5) 10 g	)	0.00006 g
6) 20 g	)	0.00008 g
7) 50 g	)	0.00010 g
8) 100 g	)	0.0002 g
9) 200 g	)	0.0003 g
10) 500 g to 1 kg)	0.002 g
11) 2 kg to 5 kg)	0.02 g
12) 10 kg to 20 kg)	0.2 g
13) 25 kg)	0.2 g
14) 30 kg to 1 000 kg)	0.6 kg

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ii) Weight Measurement (Lab)) MTD/CAL-10 : 2018	
1) 1 mg to 200 mg)	0.00002 g
2) 500 mg to 1 g)	0.00003 g
3) 2 g	)	0.00004 g
4) 5 g	)	0.00005 g
5) 10 g	)	0.00006 g
6) 20 g	)	0.00008 g
7) 50 g	)	0.00010 g
8) 100 g	)	0.0002 g
9) 200 g	)	0.0003 g
10) 500 g to 1 kg	)	0.002 g
11) 2 kg to 5 kg	)	0.02 g
12) 10 kg to 20 kg	)	0.2 g
13) 25 kg	)	0.2 g
14) 30 kg	)	0.2 g
15) 50 kg to 1 000 kg	)	0.6 kg
A.6 TORQUE MEASURING DEVICES (Lab/ Site)		
1) Torque Wrench Calibration	) MTD/CAL-41: 2019	
≥ 0.15 Nm to 1.5 Nm	) ASME B107.300-2010	0.0015 Nm
> 1.0 Nm to 10 Nm	) (Re-approved 2016)	0.015 Nm
> 10 Nm to 100 Nm	)	0.13 Nm
> 100 Nm to 1 000 Nm	)	0.88 Nm
> 250 Nm to 2 500 Nm	)	1.2 Nm
2) Torque Meter Tester	) MTD/CAL-37: 2018	
0.45 Nm to 4.5 Nm	) BS 7882: 2008	0.0011 Nm
2.5 Nm to 22.5 Nm	)	0.011 Nm
A.7 EXTENSOMETER (Lab/Site)		
1) Strain displacement measurement up to 25 mm or above	) MTD/CAL-23 :2016	0.002 mm
	) BS EN ISO 9513: 2012	
2) Gauge length 50 mm and above Classification limit up to ASTM E83 : 2010a Class B1 for gauge length 50 mm and above and 25 mm at near full scale) ASTM E83: 2016	0.004 mm
)	
)	
)	
)	

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<p>A.8 SKID RESISTANCE (PENDULUM) TESTER (Lab)</p> <p>i) Height Adjustment ii) Distance of Center of Gravity of Pendulum/ Arm to Center of Rotation iii) Point Length iv) Slider to Center Rotation v) Mass of Pendulum/ Arm vi) Pointer Weight vii) Weight Calibration viii) Measurement of Slide Force/ Deflection Characteristics</p>	<p>) MTD/CAL-138: 2012) BS EN 13036-4: 2011) ASTM E 303: 1993(2013))))))))))</p>	<p>See scope C38 See scope C38 See scope C38 See scope C38 1 g 1 g 1 g 0.1 N</p>
<p>A.9 GAS FLOW METER (LAB)</p> <p>- Rotameter - Flow Meter - Digital Flow Meter</p> <p>Flow Measuring Devices</p> <p>1) 0 to 5 l/min 2) 5 l/min to 10 l/min</p>	<p>) MTD/CAL-40:2015) ASTM D3195/D3195M -15)))))</p>	<p> 0.03 l/min 0.07 l/min</p>
<p>A.10 VOLUMETRIC CALIBRATION (LAB)</p> <p>≥ 100 µl to 1000 µl > 1 ml to 5 ml > 5 ml to 10 ml</p>	<p>MTD/CAL-21: 2017</p>	<p>1 µl 0.01 ml 0.02 ml</p>

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B.2 TEMPERATURE SENSOR (LAB)		
a) Resistance Sensor/ Thermistor) MTD/CAL-13 : 2012	
-80 °C to 280 °C	) ASTM E220: 2007a	0.03 °C
>280 °C to 400°C	) ASTM E230/ E230M: 2017	0.03 °C
>400 °C to 650°C	) ASTM E644: 2011	0.13 °C
	) ASTM E1137/ E1137M-08 (2014)	
	) IEC 60751: 2008 (Ed.2)	
	) IEC 60584-1: 2013 (Ed.3)	
b) Thermocouple Sensor	) IEC 60584-2: 1982 (Ed.1)	
	) + Amd 1: 1982 (Ed.1)	
i) Type E	) JIS C1604: 2013	0.4°C
-80 °C to 280 °C	) JIS C1602: 2015	1.3°C
>280 °C to 400°C	)	1.3°C
>400 °C to 650°C	)	1.9°C
>650 °C to 1 000°C)	
)	
ii) Type J	)	0.4°C
-80 °C to 280 °C	)	1.3 °C
>280 °C to 400°C	)	1.3°C
>400 °C to 650°C	)	1.9°C
>650 °C to 1 000°C	)	3.2°C
>1 000 °C to 1 200°C)	
)	
iii) Type K	)	0.4°C
-80 °C to 280 °C	)	1.3 °C
>280 °C to 400°C	)	1.3°C
>400 °C to 650°C	)	1.9°C
>650 °C to 1 000°C	)	3.2°C
>1 000 °C to 1 200°C)	
)	
iv) Type N	)	0.4 °C
-80 °C to 280 °C)	1.3 °C
>280 °C to 400°C)	1.3°C
>400 °C to 700°C)	1.9°C
>700 °C to 1 000°C)	3.2°C
>1 000 °C to 1 200°C)	

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v) Type R -80 °C to 280 °C >280 °C to 400°C >400 °C to 650°C >650 °C to 1 000°C >1 000 °C to 1 200°C) IEC 60584-1: 2013 (Ed.3)) IEC 60584-2: 1982 (Ed.1)) + Amd 1: 1982 (Ed.1)) JIS C1604: 2013) JIS C1602: 2015))	0.4°C 2.0°C 2.0°C 2.2°C 3.3°C
vi) Type S -80 °C to 280 °C >280 °C to 400°C >400 °C to 700°C >700 °C to 1 000°C >1 000 °C to 1 200°C	) ) ) ) ) ) )	0.4°C 1.3°C 1.3°C 1.7°C 3.0°C
vii) Type T -80 °C to 280 °C >280 °C to 400 °C	) ) )	0.4°C 0.5°C
B.3 TEMPERATURE DISPLAY WITH TEMPERATURE SENSOR (LAB)		
a) Temperature Display with PRT/ RTD Sensor -80 °C to 280 °C >280 °C to 400 °C >400 °C to 650°C) MTD/CAL-14 : 2012) ASTM E220: 2013) ASTM E230/ E230M: 2017) ASTM E644: 2011) ASTM E1137/ E1137M-08 (2014)) IEC 60751: 2008 (Ed.2)) IEC 60584-1: 2013 (Ed.3)) IEC 60584-2: 1993) JIS C1604: 2013) JIS C1602: 2015	0.03°C 0.11°C 1.6 °C

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b) Temperature Display with Thermocouple Sensor -80 °C to 280 °C >280 °C to 400 °C >400 °C to 700°C >700 °C to 1 000°C >1 000 °C to 1 200°C) MTD/CAL-14 : 2012) ASTM E220: 2013) ASTM E230/ E230M: 2012) ASTM E644: 2011) ASTM E1137/ E1137M-08 (2014)) IEC 60751: 2008 (Ed.2)) IEC 60584-1: 2013 (Ed.3)	0.2°C 0.4°C 2.1°C 2.4°C 3.4°C
c) Temperature Gauge -80 °C to 280 °C >280 °C to 400 °C >400 °C to 650 °C	) IEC 60584-2: 1993) JIS C1604: 2013) JIS C1602: 2015))	0.6 °C 1.2 °C 3.4 °C
d) Temperature Display with PRT/ RTD Sensor (Surface Type) 50 °C to 300 °C	) ) ) )	2.0 °C
e) Temperature Display with Thermocouple Sensor (Surface Type) 50 °C to 300 °C (Type K)	) ) ) )	2.0 °C
B3.1 Temperature Display with Sensor (Site)		
a) Temperature Display with PRT/ RTD Sensor -45 °C to 140 °C >140 °C to 400 °C	) MTD/CAL-14 : 2012) ASTM E220: 2013) ASTM E230/ E230M: 2017) ASTM E644: 2011) ASTM E1137/ E1137M: 08 (2014)	0.2°C 0.2°C
b) Temperature Display with Thermocouple Sensor -45 °C to 140 °C >140 °C to 400 °C) IEC 60751: 2008 (Ed.2)) IEC 60584-1: 2013 (Ed.3)) IEC 60584-2: 1993) JIS C1604: 2013) JIS C1602: 2015	0.4°C 0.4°C

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B4.3 Direct Method – Using Multifunction Calibrator or Decade Box (Measure Mode) (SITE)) MTD/CAL-15 : 2012) ASTM E220: 2013) ASTM E230/ E230M: 2017) ASTM E644: 2011) ASTM E1137/ E1137M-08 (2014)	
a) For Thermocouple Type	) ASTM E1137/ E1137M-08 (2014)	
i) Type E	) JIS C1602: 2015	
-250 °C to -200 °C	) JIS C1604: 2013	0.6°C
>-200 °C to 600 °C	) IEC 60751: 2008 (Ed.2)	0.6°C
>600 °C to 1 000 °C	) IEC 60584-1: 2013 (Ed.3)	0.5°C
	) IEC 60584-2: 1993	
ii) Type J)	
-210 °C to -100 °C	)	0.6°C
>-100 °C to 800 °C	)	0.5°C
>800 °C to 1 200 °C	)	0.5°C
)	
iii) Type K)	
-200 °C to -100°C	)	0.7°C
>-100 °C to 400 °C	)	0.6°C
>400 °C to 1 200 °C	)	0.6°C
>1 200 °C to 1 372 °C	)	0.6°C
)	
iv) Type N)	
-200 °C to -100°C	)	0.9°C
>-100 °C to 900 °C	)	0.8°C
>900 °C to 1 300 °C	)	0.6°C
)	
v) Type R)	
-20 °C to 0°C	)	1.6°C
>0 °C to 100°C	)	1.5°C
>100 °C to 1 767 °C	)	1.4°C
)	
vi) Type S)	
-20 °C to 0 °C	)	1.6°C
>0 °C to 200 °C	)	1.5°C
>200 °C to 1 400 °C)	1.5°C
>1 400 °C to 1 767 °C)	1.4°C
)	
vii) Type T)	
-250 °C to -200°C)	1.3°C
>-200 °C to 0°C)	0.7°C
>0 °C to 400°C)	0.6°C

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b) For Platinum Resistance Thermometer)	
)	
i) PT100(3916) Input)	
-200 °C to -190°C)	0.4°C
>-190°C to 0°C	)	0.1°C
>0°C to 360°C	)	0.2°C
)	
ii) PT100(3926) Input)	
-200 °C to 0°C	)	0.1°C
>0°C to 630°C	)	0.2°C
)	
iii) PT100(385) Input)	
-200 °C to 0°C	)	0.1°C
>0°C to 400°C	)	0.2°C
>400°C to 800°C	)	0.5°C
)	
iv) PT200(385) Input)	
-200 °C to 0°C	)	0.1°C
>0°C to 400°C	)	0.2°C
>400°C to 630°C	)	0.5°C
)	
v) PT500(385) Input)	
-200 °C to 0°C	)	0.1°C
>0°C to 400°C	)	0.2°C
>400°C to 630°C)	0.5°C
)	
vi) PT1000(385) Input)	
-200 °C to 0°C)	0.1°C
>0°C to 400°C)	0.2°C
>400°C to 630°C)	0.5°C

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c) Relative Humidity @ 45°C)	
12%r.h. @ 45°C)	1.5% r.h. & 0.4°C
35%r.h. @ 45°C)	1.3% r.h. & 0.4°C
55%r.h. @ 45°C)	1.7% r.h. & 0.4°C
75%r.h. @ 45°C	)	2.3% r.h. & 0.4°C
95%r.h. @ 45°C	)	2.8% r.h. & 0.4°C
)	
d) Relative Humidity @ 65°C)	
12%r.h. @ 65°C	)	1.5% r.h. & 0.4°C
35%r.h. @ 65°C	)	1.3% r.h. & 0.4°C
55%r.h. @ 65°C	)	1.5% r.h. & 0.4°C
75%r.h. @ 65°C	)	2.2% r.h. & 0.4°C
95%r.h. @ 65°C	)	2.7% r.h. & 0.4°C
)	
e) Relative Humidity @ 85°C)	
12%r.h. @ 85°C	)	1.5% r.h. & 0.8°C
35%r.h. @ 85°C	)	1.2% r.h. & 0.8°C
55%r.h. @ 85°C	)	1.6% r.h. & 0.8°C
75%r.h. @ 85°C	)	2.1% r.h. & 0.8°C
85%r.h. @ 85°C	)	2.5% r.h. & 0.8°C
)	
B.8 TEMPERATURE & RELATIVE HUMIDITY CHAMBER (SITE)	) MTD/CAL-36 : 2012) Guideline – The Society of) Environmental Engineers	
a) Relative Humidity @ 10°C)	
20%r.h. @ 10°C	)	1.9% r.h. & 0.5°C
55%r.h. @ 10°C	)	2.4% r.h. & 0.5°C
85%r.h. @ 10°C	)	3.4% r.h. & 0.5°C
)	
b) Relative Humidity @ 25°C)	
12%r.h. @ 25°C	)	1.7% r.h. & 0.5°C
55%r.h. @ 25°C	)	2.3% r.h. & 0.5°C
90%r.h. @ 25°C	)	3.7% r.h. & 0.5°C
)	
c) Relative Humidity @ 45°C)	
12%r.h. @ 45°C	)	1.8% r.h. & 0.5°C
55%r.h. @ 45°C	)	2.6% r.h. & 0.6°C
95%r.h. @ 45°C	)	3.8% r.h. & 0.5°C
)	
d) Relative Humidity @ 65°C)	
12%r.h. @ 65°C)	1.6% r.h. & 0.6°C
55%r.h. @ 65°C)	2.3% r.h. & 0.6°C
95%r.h. @ 65°C)	3.5% r.h. & 0.5°C
)	

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e) Relative Humidity @ 85°C)	
12%r.h. @ 85°C)	1.8% r.h. & 1.2°C
55%r.h. @ 85°C)	3.3% r.h. & 1.2°C
85%r.h. @ 85°C)	3.2% r.h. & 0.9°C
B.9 INFRARED THERMOMETER (LAB)		
a) EMISSIVITY 0.95 (By using IR Calibrator)	) MTD/CAL-32: 2017) ASTM E2847: 2014) VDI/VDE 3511 Part 4.4: 2005) MSL TECHNICAL GUIDE 22	
-15°C to 0°C	)	0.8°C
>0°C to 25°C	)	0.7°C
>25 °C to 75°C	)	0.6°C
>75 °C to 100°C	)	0.8°C
>100°C to 200°C	)	1.2°C
>200°C to 300°C	)	1.6°C
>300°C to 400°C	)	2.0°C
>400°C to 500°C	)	2.5°C
b) EMISSIVITY 0.95 & 1 (By using Transfer Radiation Thermometer)	) MTD/CAL-32: 2017) ASTM E2847: 2014) VDI/VDE 3511 Part 4.4: 2005) MSL TECHNICAL GUIDE 22	
-18°C to 0°C	)	1.2°C
>0°C to 50°C	)	0.8°C
>50°C to 75°C	)	0.7°C
>75°C to 100°C	)	0.8°C
>100°C to 200°C	)	1.1°C
>200°C to 300°C)	1.8°C
>300°C to 400°C)	2.0°C
>400°C to 500°C)	2.2°C
>500°C to 600°C)	2.4°C
>600°C to 1 000°C)	3.9°C

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C DIMENSIONAL Measuring Instruments / Tools (Metric and Imperial)		
C.1 External Micrometers (Lab) Micrometer Screw Accuracy) MTD/CAL-103 : 2017) BS 870 : 2008) BS EN ISO 3611: 2010	
Up to 25 mm	)	0.3 µm
>25 to 125 mm	)	1 µm
>125 to 300 mm	)	2 µm
>300 to 425 mm	)	3 µm
>425 to 600 mm	)	4 µm
>600 to 750 mm	)	5 µm
>750 to 900 mm	)	6 µm
>900 to 1000 mm	)	7 µm
C.2 Micrometer Head (Lab)	) MTD/CAL-114 : 2018	
i) Accuracy	) BS 1734 : 1951	
Up to 1.27 mm	)	0.3 µm
above 1.27 - 25 mm	)	1 µm
above 25 - 50 mm	)	2 µm
ii) Flatness	)	0.41 µm
C.3 Holtest (Micrometer Head Only) - (Lab)	) MTD/CAL-114 : 2018	
Accuracy (Transverse Distance):	) BS 1734 : 1951	
Up to 13 mm	)	1 µm
above 13 - 25 mm	)	2 µm
C.4 Internal Micrometer (Lab)	) MTD/CAL-137 : 2009	
Up to 1 500 mm	) BS 959 : 2008	
i) Micrometer Screw Accuracy	)	2 µm
ii) Extension Rods:)	
up to 100 mm	)	2 µm
>100 mm to 300 mm	)	3 µm
>300 mm to 400 mm	)	4 µm
>400 mm to 500 mm	)	7 µm
>500 mm to 600 mm)	8 µm
>600 mm to 700 mm)	10 µm
>700 mm to 800 mm)	11 µm
>800 mm to 900 mm)	12 µm

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C.5 Depth Micrometer (Lab)) MTD/CAL-107 : 2012	
i) Micrometer Screw Accuracy) BS 6468 : 2008	1 µm
0 mm to 150 mm	)	2 µm
>150 mm to 300 mm)	
ii) Rod Accuracy:)	
0 mm to 150 mm	)	1 µm
>150 mm to 300 mm	)	2 µm
iii) Parallelism Measurement	)	2 µm
iv) Flatness Measurement	)	0.41 µm
C.6 Dial Gauges (Lab)	) MTD/CAL-110 : 2012	
Up to 5 mm	) BS 907 : 2008	1.1 µm
>5 mm to 20 mm		1.6 µm
>20 mm to 25 mm		1.7 µm
C.7 Linear / Indicating Instrument (Lab) (Digital and Dial Type)	) MTD/CAL-109 : 2012	
Up to 10 mm	) ASME B89.1.10M:	0.2 µm
>10 to 25 mm	2001(R2016)	0.3 µm
>25 to 50 mm		0.5 µm
>50 to 100 mm		2 µm
C.8 Dial Test Indicators (Lab)	) MTD/CAL-111 : 2012	
Up to 0.6 mm	) BS 2795 : 1981	1.1 µm
>0.6 to 1.5 mm		1.5 µm
C.9 Dial Depth Gauge (Lab)	) MTD/CAL-113 : 2012	
Up to 25 mm	) ASME B89.1.10M:	2 µm
Flatness Measurement	2001(R2016)	0.4 µm
C.10 Dial Thickness Gauge (Lab)	) MTD/CAL-115 : 2012	
Up to 12 mm	) ASME B89.1.10M:	1 µm
>12 to 20 mm	2001(R2016)	2 µm
C.11 Calliper (Vernier, Dial & Digital) (Lab)	) MTD/CAL-104 : 2017	
Up to 1 200 mm	) BS 887 : 2008	10 µm
above 1 200 to 2 000 mm	) JIS B 7507 : 2016	20 µm
	) BS EN ISO 13385-1: 2011	
	) DIN 862: 2015	
C.12 Calliper Depth Gauge (Lab)) MTD/CAL-106 : 2017	
Up to 600 mm) BS 6365 : 2008	10 µm
) BS EN ISO 13385-2: 2011	
) DIN 862: 2015	

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<p>C.38 Skid Resistance (Pendulum) Tester (Lab)</p> <ul style="list-style-type: none"> i) Height Adjustment ii) Distance of Center of Gravity of Pendulum/ Arm to Center of Rotation iii) Point Length iv) Slider to Center Rotation v) Mass of Pendulum/ Arm vi) Pointer Weight vii) Weight Calibration viii) Measurement of Slide Force/ Deflection Characteristics 	<ul style="list-style-type: none">) MTD/CAL-138: 2012) BS EN 13036-4: 2011) ASTM E 303: 1993)))))))) 	<ul style="list-style-type: none"> 1 mm 1 mm 1 mm 1 mm See scope A10 See scope A10 See scope A10 See scope A10
<p>C.39 Calibration using laser (Lab/Site)</p> <ul style="list-style-type: none"> a) Linear flatness <ul style="list-style-type: none"> i) Up to 100 mm ii) >100 to 200 mm iii) >200 to 300 mm iv) >300 to 500 mm v) >500 to 800 mm vi) >800 to 1 000 mm 	<ul style="list-style-type: none">) MTD/CAL-140: 2016) ASME) B89.1.10M:2001(R2016)) BS 817: 2008) DIN 876 Part 1 & 2: 1984) GGG-P-463C:1977) JIS B 7513: 1992)) 	<ul style="list-style-type: none"> 0.15 µm 0.7 µm 1.4 µm 1.8 µm 1.9 µm 1.5 µm

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D. ELECTRICAL CALIBRATION (LAB/SITE)		
D.1 DC Voltage Measuring Instrument (Lab/ Site)) MTD/Cal-204 : 2014) MTD/Cal-205 : 2014) MTD/Cal-206 : 2014) MTD/Cal-214 : 2012)))	0.008 mV 0.038 mV 0.42 mV 6.1 mV 20 mV
0 - 330 mV		
>0.33 - 3.3 V		
>3.3 - 33 V		
>33 - 330 V		
>330 - 1000 V		
D.2 AC Voltage Measuring Instrument (Lab/ Site)	) MTD/Cal-204 : 2014) MTD/Cal-205 : 2014) MTD/Cal-206 : 2014) MTD/Cal-214 : 2012	
1.0 mV - 33 mV	10 Hz to 45 Hz >45 Hz to 10 kHz >10 kHz to 20 kHz >20 kHz to 50 kHz >50 kHz to 100 kHz >100 kHz to 500 kHz	0.032 mV 0.011 mV 0.013 mV 0.039 mV 0.13 mV 0.31 mV
33 mV - 330 mV	10 Hz to 50 kHz >50 kHz to 100 kHz >100 kHz to 500 kHz	0.12 mV 0.30 mV 0.73 mV
0.33 V - 3.3 V	10 Hz to 100 kHz >100 kHz to 500 kHz	2.4 mV 8.5 mV
3.3 V - 33 V	10 Hz to 50 kHz >50 kHz to 100 kHz	12 mV 31 mV
33 V - 330 V	45 Hz to 50 kHz >50 kHz to 100 kHz	0.11 V 0.71 V
330 V - 1000 V	45 Hz to 10 kHz	0.4 V

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33 mA - 330 mA	10 Hz to 20 Hz >20 Hz to 45 Hz >45 Hz to 1 kHz >1 kHz to 5 kHz >5 kHz to 10 kHz >10 kHz to 30 kHz	0.61 mA 0.32 mA 0.15 mA 0.38 mA 0.76 mA 1.5 mA
0.33 A - 1.1 A	10 Hz - 45 Hz >45 Hz to 1 kHz >1 kHz to 5 kHz >5 kHz to 10 kHz	2.1 mA 0.65 mA 7.6 mA 33 mA
1.1 A - 3 A	10 Hz - 45 Hz >45 Hz to 1 kHz >1 kHz to 5 kHz >5 kHz to 10 kHz	6 mA 3 mA 19 mA 80 mA
3 A - 11 A	45 Hz to 100 Hz >100 Hz to 1 kHz >1 kHz to 5 kHz	9 mA 13 mA 330 mA
11 A - 20 A	45 Hz to 100 Hz >100 Hz to 1 kHz >1 kHz to 5 kHz	30 mA 36 mA 620 mA
Clamp Meter Coil 10 A to 800 A	45 Hz to 65 Hz >65 Hz to 200 Hz	6.5 A 9.3 A

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D.5 Resistance Measuring Instrument) MTD/Cal-204 : 2014	
0 Ω to 11 Ω) MTD/Cal-205 : 2014	0.0014 Ω
>11 Ω to 33 Ω	) MTD/Cal-206 : 2014	0.0025 Ω
>33 Ω to 110 Ω	)	0.005 Ω
>110 Ω to 330 Ω	)	0.011 Ω
>330 Ω to 1.1 k Ω	)	0.033 Ω
>1.1 k Ω to 3.3 k Ω	)	0.11 Ω
>3.3 k Ω to 11 k Ω	)	0.33 Ω
>11 k Ω to 33 k Ω	)	1.1 Ω
>33 k Ω to 110 k Ω	)	4 Ω
>110 k Ω to 330 k Ω	)	13 Ω
>330 k Ω to 1.1 M Ω	)	40 Ω
>1.1 M Ω to 3.3 M Ω	)	0.23 k Ω
>3.3 M Ω to 11 M Ω	)	1.5 k Ω
>11 M Ω to 33 M Ω	)	11 k Ω
>33 M Ω to 110 M Ω	)	60 k Ω
>110 M Ω to 330 M Ω	)	1.1 M Ω
>330 M Ω to 1100 M Ω	)	17 M Ω
D.6 Capacitance Measuring Instrument (Lab/ Site)	) MTD/Cal-205 : 2014	
0.19 nF to 0.40 nF	) MTD/Cal-206 : 2014	
>0.40 nF to 1.1 nF	) 10 Hz to 10 kHz	0.012 nF
>1.1 nF to 3.3 nF	) 10 Hz to 10 kHz	0.02 nF
>3.3 nF to 11 nF	) 10 Hz to 3 kHz	0.03 nF
>11 nF to 33 nF	) 10 Hz to 1 kHz	0.1 nF
>33 nF to 110 nF	) 10 Hz to 1 kHz	0.2 nF
>110 nF to 330 nF	) 10 Hz to 1 kHz	1.0 nF
>0.33 μ F to 1.1 μ F	) 10 Hz to 1 kHz	2.0 nF
>1.1 μ F to 3.3 μ F	) 10 Hz to 600 Hz	0.01 μ F
>3.3 μ F to 11 μ F	) 10 Hz to 300 Hz	0.02 μ F
>11 μ F to 33 μ F	) 10 Hz to 150 Hz	0.1 μ F
>33 μ F to 110 μ F	) 10 Hz to 120 Hz	0.2 μ F
>110 μ F to 330 μ F	) 10 Hz to 80 Hz	1.0 μ F
>0.33 mF to 1.1 mF	) 0 to 50 Hz	2.0 μ F
>1.1 mF to 3.3 mF	) 0 to 20 Hz	0.01 mF
>3.3 mF to 11 mF) 0 to 6 Hz	0.02 mF
>11 mF to 33 mF) 0 to 2 Hz	0.06 mF
>33 mF to 50 mF) 0 to 0.6 Hz	0.28 mF
) 0 to 0.2 Hz	1.3 mF

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0.12 V to 1.2 V	5 Hz – 10 Hz >10 Hz to 20 kHz >20 kHz to 50 kHz >50 kHz to 100 kHz >100 kHz to 300 kHz	4.6 mV 1.1 mV 2 mV 8.2 mV 54 mV
1.2 V to 12 V	5 Hz – 10 Hz >10 Hz to 20 kHz >20 kHz to 50 kHz >50 kHz to 100 kHz >100 kHz to 300 kHz	46 mV 11 mV 20 mV 82 mV 0.54 V
12 V to 120 V	10 Hz – 20 kHz >20 kHz to 50 kHz >50 kHz to 100 kHz >100 kHz to 300 kHz	0.11 V 0.20 V 0.82 V 5.4 V
120 V to 750 V	10 Hz – 20 kHz >20 kHz to 50 kHz >50 kHz to 100 kHz	0.68 V 1.3 V 5.1 V
D.12 DC Current (Source Mode) (Lab/Site)	) MTD/Cal-215: 2017	
0 mA to 12 mA >12 mA to 120 mA >0.12 A to 1.2 A >1.2 A to 3 A >3 A to 20 A		8.4 mA 66 mA 1.3 mA 4.2 mA 0.12 A
D.13 AC Current (Source Mode) (Lab/Site)	) MTD/Cal-215: 2017	
0.004 A – 1.2 A	5 Hz – 10 Hz 10 Hz – 5 kHz	4.1 mA 1.7 mA
1.2 A – 3 A	5 Hz – 10 Hz 10 Hz – 5 kHz	12 mA 7 mA
3 A – 20 A	45 Hz – 66 Hz	60 mA

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D.14 Frequency (Source Mode) (Lab/Site) 3 Hz to 10 Hz >10 Hz to 40 Hz >40 Hz to 300 kHz) MTD/Cal-215: 2017	0.005 Hz 0.012 Hz 0.03 kHz
D.15 Resistance (Source Mode) (Lab/Site) 0 Ω to 100 Ω >100 Ω to 1 k Ω >1 k Ω to 10 k Ω >10 k Ω to 100 k Ω >0.1 M Ω to 1 M Ω >1.0 M Ω to 10 M Ω >10 M Ω to 100 M Ω	) MTD/Cal-215: 2017	14 m Ω 0.11 Ω 1.1 Ω 11 Ω 0.11 k Ω 4.1 k Ω 0.81 M Ω
D.16 High DC Voltage Sourcing (Lab) 0.5 kV to 5 kV >5 kV to 30 kV	) MTD/Cal-215: 2017	0.03 kV 0.2 kV
D.17 High AC Voltage Sourcing (Lab) 0.5 kV to 5 kV >5 kV to 28 kV	) MTD/Cal-215: 2017 50 Hz 50 Hz	0.04 kV 0.18 kV
D.18 High DC Current Sourcing (Lab) 1 mA to 3 mA >3 mA to 10 mA	) MTD/Cal-215: 2017	0.01 mA 0.1 mA
D.19 High AC Current Sourcing (Lab) 1 mA to 3 mA 3 mA to 100 mA) MTD/Cal-215: 2017 50 Hz 50 Hz	0.01 mA 1 mA

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D.20 Tachometer (Non-contact) (Lab) 10 rpm to 600 rpm >600 rpm to 6 000 rpm >6 000 rpm to 60 000 rpm >60 000 rpm to 100 000 rpm) MTD/CAL-201 : 2009)))	0.40 rpm 1.8 rpm 3.0 rpm 4.0 rpm
D.21 Rotor Apparatus (Lab/ Site) 30 rpm to 600 rpm >600 rpm to 6 000 rpm >6 000 rpm to 99 600 rpm	) MTD/CAL-201 : 2009)))	4.0 rpm 7.0 rpm 9.0 rpm
D.22 Stroboscope (Lab/Site) 10 rpm to 600 rpm >600 rpm to 6 000 rpm >6 000 rpm to 60 000 rpm >60 000 rpm to 100 000 rpm	) MTD/CAL-202 : 2009)))	0.40 rpm 1.8 rpm 2.6 rpm 3.4 rpm
D.23 Welding Machine (Lab/Site) 10 V to 100 V DC 50 A to 600 A DC	) MTD/CAL-208: 2017))	2.9 V DC 16 A DC

* CMC is expressed as an expanded uncertainty estimated at a level of confidence of approximately 95%.

Approved Signatories :

- Mr Juraimi Bin Sabit - Category B, C and D8 only.
- Mr Chong Pin Siong - All except items A10, C22-C26, C32-C33, C37, C38, D1- D19 and D23.
- Mr Neo Tien Sing - Category C except C33, C37 and C38.
- Mr Raj Kumar - Category A1 to A10, C29 and C38 only.
- Mr Andy Yew Geok Ann - Category D only.
- Ms Rosana R. Tolentino - Category C1-C3, C5-C20, C23-C24, C26-C32 and C34-C36 only.
- Mr Teu Cihua - Category C1-C15, C18-C19, C21-C22, C25, C29-C39 only.
- Mr Edwin Leong Heng Fatt - Category D1-D7, D9-D19 and D23 only.
- Mr James Song Lei Guang - Category B only.
- Mr Aphalmusyfiqi Bin M Nasir - Category C1-C2, C5-C6, C9-C13, C15, C20-C24, C27, C29-C31 and C33-C37 only.

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Note :

This laboratory is accredited in accordance with the recognised International Standard ISO/IEC 17025. A laboratory's fulfilment of the requirements of ISO/IEC 17025:2005 means the laboratory meets both the technical competence requirements and **management system requirements** that are necessary for it to consistently deliver technically valid calibration results. The **management system requirements** In ISO/IEC 17025:2005 (Section 4) are written in language relevant to laboratory operations and meet the principles of ISO 9001:2008 **Quality Management Systems — Requirements** and are aligned with its pertinent requirements.