

## Scope of Accreditation

### 01 Force

Ser. No	Parameter / Measured quantity	Calibration Method / Ref no / Code no.	Range of Measurement	Calibration and Measurement Capability at k = 2		Calibration Location
				Compression	Tension	
01	Calibration of testing machine	ISO 7500 : 2004	5 N to 300 N	----	0.1 %	SLSI / Site
02			300 N to 1000 N	0.3 %	0.2 %	
03			1000 N to 2500 N	0.3 %	0.2 %	
04			2500 N to 10000 N	0.3 %	0.3 %	
05			10 kN to 25 kN	0.2 %	0.2 %	
06			25 kN to 100 kN	0.2 %	0.2 %	
07			100 kN to 400 kN	0.2 %	---	
08			400 kN to 2000 kN	0.1 %	---	
01	Calibration of Proving Rings / Load cells	ISO 376 :2004	1,780 N to 30,000 N	5 N	5 N	SLSI
02			30 kN to 100 kN	10 N	10 N	
			100 kN to 200 kN	10 N	---	

## Scope of Accreditation

### 02. Mass

Ser. No	Parameter / Measured quantity	Calibration Method / Ref no / Code no.	Range of Measurement	Calibration and Measurement Capability at k = 2	Calibration Location
01	Calibration of weights	(1) Calibration of weights – Double substitution method DM/M/TM/02  (2) Calibration of weights – A-B weighing method DM/M/TM/01	1mg - 100mg 200mg – 500mg 1g – 10g 20g – 100g 200g – 500g 1kg – 5kg 10kg – 20kg	0.002 mg 0.004 mg 0.02 mg 0.08 mg 0.6 mg 11 mg 27 mg	SLSI
02	Calibration of Electronic Balances	Calibration of Electronic Balances DM/M/TM/03	(1)0g - 200g Resolution 0.0001g 0.001g 0.01g 0.1g  (2) 0g – 600g Resolution 0.001g 0.01g 0.1g 1g	0.15 mg 1.0 mg 9.8 mg 98 mg  1.1 mg 10 mg 98 mg 0.98 g	SLSI SLSI / site  SLSI / site

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03	Calibration of Electronic Balances	Calibration of Electronic Balances DM/M/TM/03	(3) 0kg – 2kg			
			Resolution			
			0.001g		2.8 mg	
			0.01g		10 mg	
			0.1g		98 mg	
			1g		0.98 g	
			(4) 0kg – 5kg			
			Resolution			
			0.001g		7.9 mg	
			0.01g		12 mg	
			0.1g		98 mg	
			1g		0.98 g	
			2g		2.0 g	
			(5) 0kg – 20kg			
			Resolution			
0.01g		24 mg				
0.1g		0.10 g				
0.2g		0.20 g				
1g		0.98 g				
2g		2.0 g				
5g		4.9 g				

## Scope of Accreditation

### 03. Temperature

Ser. No	Parameter / Measured quantity	Calibration Method / Ref no / Code no.	Range	Calibration and Measurement Capability at k = 2	Calibration Location
01	Liquid- in-glass thermometers	DM/T/TM-01	-80 °C / 50 °C 50 °C / 200 °C 200 °C / 550 °C	0.02 °C 0.05 °C 0.08 °C	SLSI / site
02	Dial Thermometers	DM/T/TM-02	-80 °C / 50 °C 50 °C / 200 °C 200 °C / 550 °C	0.02 °C 0.05 °C 0.08 °C	SLSI / site
03	Digital thermometers with a sensor	DM/T/TM-03	-80 °C / 50 °C 50 °C / 200 °C 200 °C / 550 °C	0.02 °C 0.05 °C 0.08 °C	SLSI / site
04	Autoclaves	DM/T/TM-04	50 °C / 150 °C	0.6 °C	SLSI / site
05	Laboratory furnaces	DM/T/TM-05	200 °C / 1000 °C 1000 °C / 1450 °C	0.7 °C 2.1 °C	SLSI / site
06	Laboratory liquid baths	DM/T/TM-06	-30 °C / 50 °C 50 °C / 200 °C	0.03 °C 0.05 °C	SLSI / site
07	Laboratory ovens	DM/T/TM-07	50 °C / 200 °C	0.6 °C	SLSI / site
08	Incubators	DM/T/TM-08	0 °C / 50 °C	0.6 °C	SLSI / site
09	Cold rooms	DM/T/TM-09	-40 °C / 20 °C	0.6 °C	site
10	PRT's by comparison method	DM/T/TM-10	0 °C / 200 °C 200 °C / 420 °C	0.05 °C 0.08 °C	SLSI / site
11	Thermocouples	DM/T/TM-11	0 °C / 200 °C 200 °C / 400 °C 400 °C / 1000 °C 1000 °C / 1450 °C	0.04 °C 0.08 °C 0.8 °C 2.2 °C	SLSI