

**TANZANIA BUREAU OF STANDARDS-TBS
CALIBRATION MEASUREMENT CAPABILITY**

FIELD/AREA	TYPE OF EQUIPMENT/ITEMS	RANGE	CMC
	Micro/dual balance	(0-200) g	0,0003%
	Analytical Balance	Up to 200 g	0,0003%
	Analytical Balance	(201-2000)g	0,0008%
	Electronic Balance	(2100-6000)g	0,0008%
	Mechanical balance	. (0-20)kg	0,0008%
	Weighing Balance	(10-50)kg	0,003%
	Weighing Balance	(51-150)kg	0,003%
	Weighing Balance	(151-250)kg	0,003%
MASS Accredited	Weighing Balance	(251-500)kg	Above 0,003% non accredited
	Batch Plant	(500-2000)kg	Above 0,003% non accredited
	Spring balance		0,003%
	Air Craft Weighing		
	Red pad	3781kg	Above 0,003% non accredited
	Yellow pad	4143kg	Above 0,003% non accredited
	Green pad	2039kg	Above 0,003% non accredited
	Weights (Mass pieces)	1 mg to 1000 g	0,0002%
		(2000-5000)g	0,0005%
		10 kg to 20 kg	0,0005%
		From 21 kg and above	Above 0,0005% non accredited
VOLUME Accredited	Pistone pipettes	5 µl to 100 µl	1,0 µl
		101 µl to 250 µl	2,0 µl

		251 µl to 500 µl 501 µl to 1000 µl 1001 µl to 3000 µl 3001 µl to 5000 µl 5001 µl to 10000 µl	4,0 µl 8,0 µl 20 µl 40 µl 60 µl
	Glassware Beaker, syringes, pipette, burette	1ml-5ml 5 ml-50 ml	0,05 ml 0,10 ml
	Flask, pycnometer, Measuring cylinder	50 ml-250 ml 250 ml-1000 ml 1000 ml-2000 ml	0,2 0 ml 0,50 ml 2,0 ml
	Metal strike measures and other metal standard mesures	1000 ml-2000 ml 2000 ml-5000 ml	2,0 ml 4,0 ml
DIMENSIONAL Accredited	Measuring Tape	(0-12)m (0-30)m Above 30 m	±0,4 mm ±0,4 mm ±0,4 mm
	Dip tape	(0-12)m	±0,4 mm
	Height gauge	(0-200)mm (200-500)mm	±11 µm ±25 µm
	Depth /thickness gauge	(0-100) mm	±11 µm
	Ruler	(0-1000)mm	±0,2mm
	Dip Stick Marking		
	Tank Marking	(0-2000) mm	±0,4 mm
	Tank Marking	(0-4000)mm	±0,4 mm
	Tank Marking	(0-6000) mm	±0,4 mm
	Hand Instruments		
	Micrometer Screw Gauge	(0-300) mm	±6,0 µm
	Vernier Calipers	(0-200) mm	±11 µm
	Vernier Calipers	(0-500) mm	±25 µm
	Dial Indicators/gauges	(0-20)mm	±6 µm

	Set of Gauge Blocks	(20-50)mm	±9 μm
	Penetrometer	(0-200) mm	±0,2 μm
	GO-NO-GO gauge	(0-50)mm	±0,1mm
		(0-50)mm	±25 μm
TEMPERATURE Accredited	Pt.100 probes/RTDs	(-30-50) °C	0,05 °C
		(50-200) °C	0,2 °C
		(200-600)'C	0,5 °C
	Thermocouple probes	(-30-200)'C	0,5 °C
	Dry block (Not Acc)		0,5 °C
	Water bath	(0-200) °C	0,5 °C
	Autoclave	(0-121) °C	1,6 °C
	Fridges/Freezers	(-30 to 200) °C	0,5 °C
	Ovens	(-30 to 200) °C	0,5 °C
	Muffle furnances		
	Incubators	(-30 to 200) °C	0,5°C
	HOT PLATES		
	Dial Temp. Gauges	(-30 to 200) °C	0,1°C
		(-30 to 200) °C	0,25 °C
	COLD ROOMS	(-30 to 200) °C	0,5 °C
	Plate freezers	(-30 to 200) °C	0,5 °C
	Blast freezers	(-30 to 200) °C	0,5 °C
Cold /Chill rooms	(-30 to 200) °C	0,5 °C	
TEMP. CONTROLERS	(-30 to 200) °C	0,5 °C	