National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)

SCOPE OF ACCREDITATION

Laboratory	**National Metrology Laboratory, Rijug Lam, BSB Campus, Thimpu, Bhutan**
Accreditation Standard	**ISO/IEC 17025: 2017**
Certificate Number	**CC-2652**
Validity	**29.05.2020 to 20.04.2022**

Last Amended on -

S.No	Measurand or Reference Material/Type of Instrument or Material to be Calibrated or measured /Qty Measured / Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable (Range and Frequency)	Calibration Measurement Capability (CMC) (±)
		MECHANICAL CALIBRATION		
I.	**MASS AND VOLUME**			
1.	Weights$ (M1 Class and Coarser)	Using E2 class weights and semi micro balance 80g with 0.01 mg readability, weighing Balance 220 g with 0.1 mg readability by direct ABBA comparison based on OIML R111-1	1 mg 5 mg 10 mg 20 mg 50 mg 100 mg 200 mg 500 mg 1 g 2 g 5 g 10 g 20 g 50 g 100 g 200 g	0.06 mg 0.06 mg 0.06 mg 0.06 mg 0.37 mg 0.37 mg 0.37 mg 0.63 mg 0.63 mg 0.63 mg 0.94 mg 0.94 mg 0.94 mg 0.63 mg 0.8 mg 1.06 mg

Anuja Anand
Convenor

Avijit Das
Program Manager

National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)

SCOPE OF ACCREDITATION

Laboratory National Metrology Laboratory, Rijug Lam, BSB Campus, Thimpu, Bhutan

Accreditation Standard ISO/IEC 17025: 2017

Certificate Number CC-2652 **Page** 2 of 3

Validity 29.05.2020 to 20.04.2022 **Last Amended on** -

S.No	Measurand or Reference Material/Type of Instrument or Material to be Calibrated or measured /Qty Measured / Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable (Range and Frequency)	Calibration Measurement Capability (CMC) (±)
	Weights[$] (F2 Class and Coarser)	Using F1 class weights and weighing balance of 1 kg with 1 mg readability by direct ABBA comparison based on OIML R111-1	500 g 1 kg	2 mg 2.1 mg
	Weights[$] (F2 Class and Coarser)	Using F1 class weights and weighing balance of 60 kg capacity with10 mg readability by direct ABBA comparison based on OIML R111-1	2 kg 5 kg 10 kg 20 kg	9.4 mg 12.6 mg 41 mg 41 mg
2.	Weighing Balance[&]			
	d=0.01 mg (Class I and coarser)	Using E2 class weights based on OIML R 76-1	1 mg to 50 g	0.47 mg
	d=0.1 mg(Class I and coarser)		1 mg to 200 g	0.53 mg
	d=1 mg(Class II and coarser)	Using F1 class and F2 class weights based on OIML R 76-1	200 g to 1 kg	1.7 mg
	d=10 mg (Class 1and coarser)		200 g to 5 kg	11 mg
	d=100 mg(Class 1and coarser)		2 kg to 20 kg	129 mg

Anuja Anand
Convenor

Avijit Das
Program Manager

National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)

SCOPE OF ACCREDITATION

Laboratory	**National Metrology Laboratory, Rijug Lam, BSB Campus, Thimpu, Bhutan**		
Accreditation Standard	**ISO/IEC 17025: 2017**		
Certificate Number	**CC-2652**	**Page**	**3 of 3**
Validity	**29.05.2020 to 20.04.2022**	**Last Amended on**	**-**

S.No	Measurand or Reference Material/Type of Instrument or Material to be Calibrated or measured /Qty Measured / Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable (Range and Frequency)	Calibration Measurement Capability (CMC) (±)
II.	**DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)**			
1.	Steel Scale[$] L. C.: 0 to 1000 mm	Using Secondary Standard with tape and Scale Calibration Unit	Upto 1000 mm	20.0 µm
2.	Measuring Tape[$]	Using secondary Standard with Tape and Scale Calibration Unit	Upto 5000 mm	$30.0\sqrt{l}$ µm where L is in meter

* Measurement Capability is expressed as an uncertainty (±) at a confidence probability of 95%
[$]Only in Permanent Laboratory
[^]Only for Site Calibration

Anuja Anand
Convenor

Avijit Das
Program Manager