



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : NSTAR CORP (METROLOGY DEPARTMENT), 34, PELICAN ESTATE, ROAD NO 5, KATHWADA GIDC, KATHWADA, AHMEDABAD, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 03/02/2023 to 02/02/2025 **Last Amended on** 22/03/2023

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
Permanent Facility					
1	MECHANICAL-WEIGHTS	Mass Standards - E1 Accuracy Class and Coarser	Using E1 Class Weights and Mass Comparator with d = 0.0001 mg by ABBA Cycles and Substitution method as per OIML R-111	1 g	0.0030mg
2	MECHANICAL-WEIGHTS	Mass Standards - E1 Accuracy Class and Coarser	Using E1 Class Weights and Mass Comparator with d = 0.01 mg by ABBA Cycles and Substitution method as per OIML R-111	1 kg	0.16mg
3	MECHANICAL-WEIGHTS	Mass Standards - E1 Accuracy Class and Coarser	Using E1 Class Weights and Mass Comparator with d = 0.0001 mg by ABBA Cycles and Substitution method as per OIML R-111	1 mg	0.0010mg
4	MECHANICAL-WEIGHTS	Mass Standards - E1 Accuracy Class and Coarser	Using E1 Class Weights and Mass Comparator with d = 0.001 mg by ABBA Cycles and Substitution method as per OIML R-111	10 g	0.0066mg



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5	MECHANICAL-WEIGHTS	Mass Standards - E1 Accuracy Class and Coarser	Using E1 Class Weights and Mass Comparator with d = 0.2 mg by ABBA Cycles and Substitution method as per OIML R-111	10 kg	1.66mg
6	MECHANICAL-WEIGHTS	Mass Standards - E1 Accuracy Class and Coarser	Using E1 Class Weights and Mass Comparator with d = 0.0001 mg by ABBA Cycles and Substitution method as per OIML R-111	10 mg	0.0010mg
7	MECHANICAL-WEIGHTS	Mass Standards - E1 Accuracy Class and Coarser	Using E1 Class Weights and Mass Comparator with d = 0.001 mg by ABBA Cycles and Substitution method as per OIML R-111	100 g	0.016mg
8	MECHANICAL-WEIGHTS	Mass Standards - E1 Accuracy Class and Coarser	Using E1 Class Weights and Mass Comparator with d = 0.0001 mg by ABBA Cycles and Substitution method as per OIML R-111	100 mg	0.0016mg



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9	MECHANICAL-WEIGHTS	Mass Standards - E1 Accuracy Class and Coarser	Using E1 Class Weights and Mass Comparator with d = 0.0001 mg by ABBA Cycles and Substitution method as per OIML R-111	2 g	0.0040mg
10	MECHANICAL-WEIGHTS	Mass Standards - E1 Accuracy Class and Coarser	Using E1 Class Weights and Mass Comparator with d = 0.1 mg by ABBA Cycles and Substitution method as per OIML R-111	2 kg	0.32mg
11	MECHANICAL-WEIGHTS	Mass Standards - E1 Accuracy Class and Coarser	Using E1 Class Weights and Mass Comparator with d = 0.0001 mg by ABBA Cycles and Substitution method as per OIML R-111	2 mg	0.0010mg
12	MECHANICAL-WEIGHTS	Mass Standards - E1 Accuracy Class and Coarser	Using E1 Class Weights and Mass Comparator with d = 0.001 mg by ABBA Cycles and Substitution method as per OIML R-111	20 g	0.0080mg



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13	MECHANICAL-WEIGHTS	Mass Standards - E1 Accuracy Class and Coarser	Using E1 Class Weights and Mass Comparator with d = 1 mg by ABBA Cycles and Substitution method as per OIML R-111	20 kg	3.16mg
14	MECHANICAL-WEIGHTS	Mass Standards - E1 Accuracy Class and Coarser	Using E1 Class Weights and Mass Comparator with d = 0.0001 mg by ABBA Cycles and Substitution method as per OIML R-111	20 mg	0.0010mg
15	MECHANICAL-WEIGHTS	Mass Standards - E1 Accuracy Class and Coarser	Using E1 Class Weights and Mass Comparator with d = 0.01 mg by ABBA Cycles and Substitution method as per OIML R-111	200 g	0.03mg
16	MECHANICAL-WEIGHTS	Mass Standards - E1 Accuracy Class and Coarser	Using E1 Class Weights and Mass Comparator with d = 0.0001 mg by ABBA Cycles and Substitution method as per OIML R-111	200 mg	0.0020mg



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17	MECHANICAL-WEIGHTS	Mass Standards - E1 Accuracy Class and Coarser	Using E1 Class Weights and Mass Comparator with d = 0.0001 mg by ABBA Cycles and Substitution method as per OIML R-111	5 g	0.0050mg
18	MECHANICAL-WEIGHTS	Mass Standards - E1 Accuracy Class and Coarser	Using E1 Class Weights and Mass Comparator with d = 0.1 mg by ABBA Cycles and Substitution method as per OIML R-111	5 kg	0.82mg
19	MECHANICAL-WEIGHTS	Mass Standards - E1 Accuracy Class and Coarser	Using E1 Class Weights and Mass Comparator with d = 0.0001 mg by ABBA Cycles and Substitution method as per OIML R-111	5 mg	0.0010mg
20	MECHANICAL-WEIGHTS	Mass Standards - E1 Accuracy Class and Coarser	Using E1 Class Weights and Mass Comparator with d = 0.001 mg by ABBA Cycles and Substitution method as per OIML R-111	50 g	0.010mg



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21	MECHANICAL-WEIGHTS	Mass Standards - E1 Accuracy Class and Coarser	Using E1 Class Weights and Precision Balance with $d = 2$ mg by ABBA Cycles and Substitution method as per OIML R-111	50 kg	5mg
22	MECHANICAL-WEIGHTS	Mass Standards - E1 Accuracy Class and Coarser	Using E1 Class Weights and Mass Comparator with $d = 0.0001$ mg by ABBA Cycles and Substitution method as per OIML R-111	50 mg	0.0013mg
23	MECHANICAL-WEIGHTS	Mass Standards - E1 Accuracy Class and Coarser	Using E1 Class Weights and Mass Comparator with $d = 0.01$ mg by ABBA Cycles and Substitution method as per OIML R-111	500 g	0.08mg
24	MECHANICAL-WEIGHTS	Mass Standards - E1 Accuracy Class and Coarser	Using E1 Class Weights and Mass Comparator with $d = 0.0001$ mg by ABBA Cycles and Substitution method as per OIML R-111	500 mg	0.0026mg



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25	MECHANICAL-WEIGHTS	Mass Standards - M1 Accuracy Class and Coarser	Using F1 Class Weights and High Precision Weighing Scale with d = 1 g by ABBA Cycles and Substitution method as per OIML R-111	100 kg	1g
26	MECHANICAL-WEIGHTS	Mass Standards - M1 Accuracy Class and Coarser	Using F1 Class Weights and High Precision Weighing Scale with d = 2 g by ABBA Cycles and Substitution method as per OIML R-111	200 kg	3g
27	MECHANICAL-WEIGHTS	Mass Standards - M1 Accuracy Class and Coarser	Using F1 Class Weights and High Precision Weighing Scale with d = 5 g by ABBA Cycles and Substitution method as per OIML R-111	500 kg	5g



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Site Facility					
1	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances Class I & Coarser, d = 2 mg	Using E1 Class Test Weights 1 mg to 50 kg as per OIML R-76	>40.1 kg to 60 kg	5.0mg
2	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances Class I & Coarser, d = 0.0001 mg	Using E1 Class Test Weights (1 mg to 200 g) as per OIML R-76	>2.1 g to 5 g	0.0050mg
3	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances Class I & Coarser, d = 0.0001 mg	Using E1 Class Test Weights (1 mg to 200 g) as per OIML R-76	0 to 2 g	0.0040mg
4	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances Class I & Coarser, d = 0.001 mg	Using E1 Class Test Weights (1 mg to 200 g) as per OIML R-76	>21 g to 100 g	0.017mg
5	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances Class I & Coarser, d = 0.001 mg	Using E1 Class Test Weights (1 mg to 200 g) as per OIML R-76	>5.1 g to 20 g	0.010mg
6	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances Class I & Coarser, d = 0.01 mg	Using E1 Class Test Weights 1 mg to 200 g as per OIML R-76	>101 g to 200 g	0.032mg
7	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances Class I & Coarser, d = 0.01 mg	Using E1 Class Test Weights 1 mg to 5 kg as per OIML R-76	>201 g to 1000 g	0.161mg



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8	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances Class I & Coarser, d = 0.1 mg	Using E1 Class Test Weights 1 mg to 5 kg as per OIML R-76	>1.1 kg to 2 kg	0.32mg
9	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances Class I & Coarser, d = 0.1 mg	Using E1 Class Test Weights 1 mg to 5 kg as per OIML R-76	>2.1 kg to 5 kg	0.81mg
10	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances Class I & Coarser, d = 0.2 mg	Using E1 Class Test Weights 1 mg to 10 kg as per OIML R-76	>5.1 kg to 10 kg	1.64mg
11	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances Class I & Coarser, d = 1 mg	Using E1 Class Test Weights 1 mg to 20 kg (20 kg - 2 Nos.) as per OIML R-76	>10.1 kg to 40 kg	3.2mg
12	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances Class II & Coarser, d = 10 g	Using E1 Class Test Weights 1 mg to 50 kg & Using F1 Class Test Weights of 20 kg X 50 Nos. as per OIML R-76	>500.1 kg to 1000 kg	8.6g
13	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances Class II & Coarser, d = 2 g	Using E1 Class Test Weights 1 mg to 50 kg & Using F1 Class Test Weights of 20 kg X 10 Nos. as per OIML R-76	>100.1 kg to 200 kg	1.4g



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14	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances Class II & Coarser, d = 1 g	Using E1 Class Test Weights 1 mg to 50 kg & Using F1 Class Test Weights of 20 kg X 5 Nos. as per OIML R-76	>60.1 kg to 100 kg	0.80g
15	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances Class II & Coarser, d = 5 g	Using E1 Class Test Weights 1 mg to 50 kg & Using F1 Class Test Weights of 20 kg X 25 Nos. as per OIML R-76	>200.1 kg to 500 kg	3.4g

* CMCs represent expanded uncertainties expressed at approximately the 95% level of confidence, using a coverage factor of k = 2.