



# Aavanira Technologies (P) Ltd.

## LABORATORY SCOPE

Sl	Parameter*/Device Under Calibration	Master Equipment used	Range(s) of Measurement	Calibration and Measurement Capability ( $\pm$ )	Calibration Performed At
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Discipline: Mechanical			Group: ( Mass & Volume ) - Weights		
1	Mass- Weights ( F1 class & Coarser)	Using E1 Class of Weights and Mass Comparator of readability 0.01 mg- Calibration of Weights Class F1 Accuracy & Coarser as per OIML R-111	1 mg	0.01mg	lab
2	Mass- Weights ( F1 class & Coarser)	Using E1 Class of Weights and Mass Comparator of readability 0.01 mg- Calibration of Weights Class F1 Accuracy & Coarser as per OIML R-111	2 mg	0.01mg	lab
3	Mass- Weights ( F1 class & Coarser)	Using E1 Class of Weights and Mass Comparator of readability 0.01 mg- Calibration of Weights Class F1 Accuracy & Coarser as per OIML R-111	5 mg	0.01mg	lab
4	Mass- Weights ( F1 class & Coarser)	Using E1 Class of Weights and Mass Comparator of readability 0.01 mg- Calibration of Weights Class F1 Accuracy & Coarser as per OIML R-111	10 mg	0.01mg	lab
5	Mass- Weights ( F1 class & Coarser)	Using E1 Class of Weights and Mass Comparator of readability 0.01 mg- Calibration of Weights Class F1 Accuracy & Coarser as per OIML R-111	20 mg	0.01mg	lab



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6	Mass- Weights ( F1 class & Coarser)	Using E1 Class of Weights and Mass Comparator of readability 0.01 mg- Calibration of Weights Class F1 Accuracy & Coarser as per OIML R-111	50 mg	0.01mg	lab
7	Mass- Weights ( F1 class & Coarser)	Using E1 Class of Weights and Mass Comparator of readability 0.01 mg- Calibration of Weights Class F1 Accuracy & Coarser as per OIML R-111	100 mg	0.01mg	lab
8	Mass- Weights ( F1 class & Coarser)	Using E1 Class of Weights and Mass Comparator of readability 0.01 mg- Calibration of Weights Class F1 Accuracy & Coarser as per OIML R-111	200 mg	0.01mg	lab
9	Mass- Weights ( F1 class & Coarser)	Using E1 Class of Weights and Mass Comparator of readability 0.01 mg- Calibration of Weights Class F1 Accuracy & Coarser as per OIML R-111	500 mg	0.01mg	lab
10	Mass- Weights ( F1 class & Coarser)	Using E1 Class of Weights and Mass Comparator of readability 0.01 mg- Calibration of Weights Class F1 Accuracy & Coarser as per OIML R-111	1 g	0.01mg	lab
11	Mass- Weights ( F1 class & Coarser)	Using E1 Class of Weights and Mass Comparator of readability 0.01 mg- Calibration of Weights Class F1 Accuracy & Coarser as per OIML R-111	2 g	0.01mg	lab



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12	Mass- Weights ( F1 class & Coarser)	Using E1 Class of Weights and Mass Comparator of readability 0.01 mg- Calibration of Weights Class F1 Accuracy & Coarser as per OIML R-111	5 g	0.02mg	lab
13	Mass- Weights ( F1 class & Coarser)	Using E1 Class of Weights and Mass Comparator of readability 0.01 mg- Calibration of Weights Class F1 Accuracy & Coarser as per OIML R-111	10 g	0.02mg	lab
14	Mass- Weights ( F1 class & Coarser)	Using E1 Class of Weights and Mass Comparator of readability 0.01 mg- Calibration of Weights Class F1 Accuracy & Coarser as per OIML R-111	20 g	0.02mg	lab
15	Mass- Weights ( F1 class & Coarser)	Using E1 Class of Weights and Mass Comparator of readability 0.01 mg- Calibration of Weights Class F1 Accuracy & Coarser as per OIML R-111	50 g	0.02mg	lab
16	Mass- Weights ( F1 class & Coarser)	Using E1 Class of Weights and Mass Comparator of readability 0.01 mg- Calibration of Weights Class F1 Accuracy & Coarser as per OIML R-111	100 g	0.03mg	lab
17	Mass- Weights ( F1 class & Coarser)	Using E1 Class of Weights and Mass Comparator of readability 0.01 mg- Calibration of Weights Class F1 Accuracy & Coarser as per OIML R-111	200 g	0.04mg	lab



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18	Mass- Weights ( F1 class & Coarser)	Using E2 Class of Weights and Mass Comparator of readability 1 mg- Calibration of Weights Class F1 Accuracy & Coarser as per OIML R-111	500 g	1.0 mg	lab
19	Mass- Weights ( F1 class & Coarser)	Using E2 Class of Weights and Mass Comparator of readability 1 mg- Calibration of Weights Class F1 Accuracy & Coarser as per OIML R-111	1 kg	1.3 mg	lab



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<b>Discipline: Mechanical</b>			<b>Group: ( Mass &amp; Volume ) Weighing Scale &amp; balance</b>		
1	I Class – Electronic Weighing Balance With Readability  d = 0.001 mg	Using E1 Class Weight & E2 Class Weights Calibration of electronic Weighing balance and Comparator of class I and coarser As per OIML R -111	0 to 5 g	0.003 mg	At lab/Site
2	I Class – Electronic Weighing Balance With Readability  d = 0.01 mg & coarser	Using E1 Class Weight & E2 Class Weights Calibration of electronic Weighing balance and Comparator of class I and coarser As per OIML R -111	0 to 200 g	0.030 mg	At lab/Site
3	I Class – Electronic Weighing Balance With Readability  d = 0.01 mg & Coarser	Using E1 Class Weight & E2 Class Weights Calibration of electronic Weighing balance and Comparator of class I and coarser As per OIML R -111	0 to 1000 g	6.0 mg	At lab/Site
4	I Class – Electronic Weighing Balance With Readability  d = 0.01 mg & Coarser	Using E1 Class Weight & E2 Class Weights Calibration of electronic Weighing balance and Comparator of class I and coarser As per OIML R -111	0 to 5000 g	0.011 g	At Site
5	II Class – Electronic Weighing Balance With Readability  d = 10 mg & Coarser	Using E1 Class Weight & E2 Class Weights & F1 Class weight Calibration of electronic Weighing balance and Comparator of class I and coarser As per OIML R -111	0 to 20 kg	0.011 g	At Site



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6	II Class – Electronic Weighing Balance With Readability d = 10 mg & Coarser	Using E1 Class Weight & E2 Class Weights & F1 Class weight Calibration of electronic Weighing balance and Comparator of class I and coarser As per OIML R -111	0 to 25 kg	0.3 g	At Site
<b>Discipline: Mechanical</b>			<b>Group: ( Mass &amp; Volume ) – Volume</b>		
1	Micro – Pipette/ bottle dispenser	Using Weighing Balance of 102 g Capacity and 0.01 mg readability & distilled water by Gravimetric method based on ISO 8655 parts 6	10 $\mu$ l to 50 $\mu$ l @ 27 °C	0.1 $\mu$ l	At lab
2	Micro – Pipette/ bottle dispenser	Using Weighing Balance of 102 g Capacity and 0.01 mg readability & distilled water by Gravimetric method based on ISO 8655 parts 6	50 $\mu$ l to 100 $\mu$ l @ 27 °C	0.1 $\mu$ l	At lab
2	Micro – Pipette/ bottle dispenser	Using Weighing Balance of 102 g Capacity and 0.01 mg readability & distilled water by Gravimetric method based on ISO 8655 parts 6	100 $\mu$ l to 500 $\mu$ l @ 27 °C	0.15 $\mu$ l	At lab
3	Micro – Pipette/ bottle dispenser	Using Weighing Balance of 102 g Capacity and 0.01 mg readability & distilled water by Gravimetric method based on ISO 8655 parts 6	500 $\mu$ l to 1000 $\mu$ l @ 27 °C	0.2 $\mu$ l	At lab
4	Micro – Pipette/ bottle dispenser	Using Weighing Balance of 102 g Capacity and 0.01 mg readability & distilled water by Gravimetric method based on ISO 8655 parts 6	1000 $\mu$ l to 2000 $\mu$ l @ 27 °C	0.22 $\mu$ l	At lab



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5	Micro – Pipette/ bottle dispenser	Using Weighing Balance of 102 g Capacity and 0.01 mg readability & distilled water by Gravimetric method based on ISO 8655 parts 6	2000 $\mu$ l to 10000 $\mu$ l @ 27 °C	0.8 $\mu$ l	At lab
6	Glassware like Pipettes, Burettes, measuring Cylinder , Volumetric Flask , Graduated Jar, Can	Using Weighing Balance of 220 g Capacity and 0.01 mg and 0.1 mg readability & distilled water by Gravimetric method based on IS/ISO 4787	1 ml to 10 ml @ 27°C	0.005 ml	At lab
7	Glassware like Pipettes, Burettes, measuring Cylinder , Volumetric Flask , Graduated Jar, Can	Using Weighing Balance of 220 g Capacity and 0.01 mg and 0.1 mg readability & distilled water by Gravimetric method based on IS/ISO 4787	10 ml to 50 ml @ 27°C	0.005 ml	At lab
8	Glassware like Pipettes, Burettes, measuring Cylinder , Volumetric Flask , Graduated Jar, Can	Using Weighing Balance of 220 g Capacity and 0.01 mg and 0.1 mg readability & distilled water by Gravimetric method based on IS/ISO 4787	50 ml to 100 ml @ 27°C	0.006 ml	At lab
9	Glassware like , Pipettes, Burettes, measuring Cylinder , Volumetric Flask , Graduated Jar, Can	Using Weighing Balance of 1020 g Capacity and 1 mg readability & distilled water by Gravimetric method based on IS/ISO 4787	100 to 500 ml @ 27 °C	0.17 ml	At lab