



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TYCON ENGINEERING, PLOT NO-361,362,SAMAYPUR COLONY, FARIDABAD,
HARYANA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3226

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Validity

16/03/2021 to 15/03/2023

Last Amended on

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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-VOLUME	Graduated one mark (pipette & Burette)	Using balance(d=0.01 mg) and using distilled water by Gravimetric method as per ISO 8655- 6 & ISO 20461	10 ml	0.03 ml
2	MECHANICAL-VOLUME	Graduated one mark (pipette & Burette)	Using balance(d=0.1 mg) and using distilled water by Gravimetric method as per ISO 8655- 6 & ISO 20461	100 ml	0.06 ml
3	MECHANICAL-VOLUME	Graduated one mark (pipette & Burette)	Using balance(d=0.01 mg) and using distilled water by Gravimetric method as per ISO 8655- 6 & ISO 20461	25 ml	0.04 ml
4	MECHANICAL-VOLUME	Graduated one mark (pipette & Burette)	Using balance(d=0.01 mg) and using distilled water by Gravimetric method as per ISO 8655- 6 & ISO 20461	50 ml	0.05 ml



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5	MECHANICAL-VOLUME	Measuring cylinder	Using balance(d=0.01 mg) and using distilled water by Gravimetric method as per ISO 8655- 6 & ISO 20461	10 ml	0.03 ml
6	MECHANICAL-VOLUME	Measuring cylinder	Using balance(d=0.1 mg) and using distilled water by Gravimetric method as per ISO 8655- 6 & ISO 20461	100 ml	0.06 ml
7	MECHANICAL-VOLUME	Measuring cylinder	Using balance(d=0.001 g) and using distilled water by Gravimetric method as per ISO 8655- 6 & ISO 20461	1000 ml	0.12 ml
8	MECHANICAL-VOLUME	Measuring cylinder	Using balance(d=0.01 mg) and using distilled water by Gravimetric method as per ISO 8655- 6 & ISO 20461	20 ml	0.04 ml



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9	MECHANICAL-VOLUME	Measuring cylinder	Using balance(d=0.001 g) and using distilled water by Gravimetric method as per ISO 8655- 6 & ISO 20461	200 ml	0.07 ml
10	MECHANICAL-VOLUME	Measuring cylinder	Using balance(d=0.01 g) and using distilled water by Gravimetric method as per ISO 8655- 6 & ISO 20461	2000 ml	0.30 ml
11	MECHANICAL-VOLUME	Measuring cylinder	Using balance(d=0.01 mg) and using distilled water by Gravimetric method as per ISO 8655- 6 & ISO 20461	50 ml	0.05 ml
12	MECHANICAL-VOLUME	Measuring cylinder	Using balance(d=0.001 g) and using distilled water by Gravimetric method as per ISO 8655- 6 & ISO 20461	500 ml	0.08 ml



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13	MECHANICAL-VOLUME	Micro pipette	Using Distilled water & ultra-micro balance(d=0.001 mg) by Gravimetric method on ISO 8655 (part 6)	1 µl	0.002 µl
14	MECHANICAL-VOLUME	Micro pipette	Using Distilled water & ultra-micro balance(d=0.001 mg) by Gravimetric method on ISO 8655 (part 6)	10 µl	0.006 µl
15	MECHANICAL-VOLUME	Micro pipette	Using Distilled water & ultra-micro balance(d=0.01 mg) by Gravimetric method on ISO 8655 (part 6)	20 µl	0.02 µl
16	MECHANICAL-VOLUME	Micro pipette	Using Distilled water & ultra-micro balance(d=0.01 mg) by Gravimetric method on ISO 8655 (part 6)	200 µl	0.04 µl
17	MECHANICAL-VOLUME	Micropipette	Using Distilled water & ultra-micro balance(d=0.01 mg) by Gravimetric method on ISO 8655 (part 6) :2002	100 µl	0.03 µl



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18	MECHANICAL-VOLUME	Micropipette	Using Distilled water & ultra-micro balance(d=0.01 mg) by Gravimetric method on ISO 8655 (part 6)	1000 µl	0.09 µl
19	MECHANICAL-VOLUME	Micropipette	Using Distilled water & ultra-micro balance(d=0.001 mg) by Gravimetric method on ISO 8655 (part 6)	2 µl	0.004 µl
20	MECHANICAL-VOLUME	Micropipette	Using Distilled water & ultra-micro balance(d=0.001 mg) by Gravimetric method on ISO 8655 (part 6)	5 µl	0.005 µl
21	MECHANICAL-VOLUME	Micropipette	Using Distilled water & ultra-micro balance(d=0.01 mg) by Gravimetric method on ISO 8655 (part 6)	50 µl	0.03 µl
22	MECHANICAL-VOLUME	Micropipette	Using Distilled water & ultra-micro balance(d=0.01 mg) by Gravimetric method on ISO 8655 (part 6)	500 µl	0.05 µl



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23	MECHANICAL-VOLUME	Volumetric (Flask /Beaker)	Using balance(d=0.01 mg) , Accuracy Class weights E2 & Distilled water by Gravimetric method on ISO 4787:2010 & ISO 20461	10 ml	0.03 ml
24	MECHANICAL-VOLUME	Volumetric (Flask /Beaker)	Using balance(d=0.1 mg) , Accuracy Class weights E2 & Distilled water by Gravimetric method on ISO 4787:2010 & ISO 20461	100 ml	0.06 ml
25	MECHANICAL-VOLUME	Volumetric (Flask /Beaker)	Using balance(d=0.001 g) , Accuracy Class weights E2 & Distilled water by Gravimetric method on ISO 4787:2010 & ISO 20461	1000 ml	0.12 ml
26	MECHANICAL-VOLUME	Volumetric (Flask /Beaker)	Using balance(d=0.01 mg) , Accuracy Class weights E2 & Distilled water by Gravimetric method on ISO 4787:2010 & ISO 20461	20 ml	0.04 ml



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27	MECHANICAL-VOLUME	Volumetric (Flask /Beaker)	Using balance(d=0.001 g) , Accuracy Class weights E2 & Distilled water by Gravimetric method on ISO 4787:2010 & ISO 20461	200 ml	0.07 ml
28	MECHANICAL-VOLUME	Volumetric (Flask /Beaker)	Using balance(d=0.001 g) , Accuracy Class weights E2 & Distilled water by Gravimetric method on ISO 4787:2010 & ISO 20461	2000 ml	0.30 ml
29	MECHANICAL-VOLUME	Volumetric (Flask /Beaker)	Using balance(d=0.01 mg) , Accuracy Class weights E2 & Distilled water by Gravimetric method on ISO 4787:2010 & ISO 20461	50 ml	0.05 ml



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30	MECHANICAL-VOLUME	Volumetric (Flask /Beaker)	Using balance(d=0.001 g) , Accuracy Class weights E2 & Distilled water by Gravimetric method on ISO 4787:2010 & ISO 20461	500 ml	0.08 ml
31	MECHANICAL-WEIGHTS	MASS WEIGHTS M2 CLASS & COARSER	Using Weights of Accuracy Class F1 And Precision Balances as per OIML R 111-1:2004By Substitution Method. ABBA Weighing Cycle.	50 kg	1 g
32	MECHANICAL-WEIGHTS	Mass- Weights (E2 Class & Coarser)	Using Weights of Accuracy Class E1 And ultra micro Balances (d=0.001 mg) as per OIML R 111-1:2004 By Subdivision Method. ABBA Weighing Cycle	200 mg	0.002 mg



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33	MECHANICAL-WEIGHTS	Mass- Weights (E2 Class & Coarser)	Using Weights of Accuracy Class E1 And ultra micro Balances (d=0.001 mg) as per OIML R 111-1:2004 By Substitution Method. ABBA Weighing Cycle	1 g	0.004 mg
34	MECHANICAL-WEIGHTS	Mass- Weights (E2 Class & Coarser)	Using Weights of Accuracy Class E1 And micro Balances (d=0.01 mg) as per OIML R 111-1:2004 By Substitution Method. ABBA Weighing Cycle	10 g	0.01 mg
35	MECHANICAL-WEIGHTS	Mass- Weights (E2 Class & Coarser)	Using Weights of Accuracy Class E1 And ultra micro Balances (d=0.001 mg) as per OIML R 111-1:2004 By Substitution Method. ABBA Weighing Cycle	10 mg	0.002 mg



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36	MECHANICAL-WEIGHTS	Mass- Weights (E2 Class & Coarser)	Using Weights of Accuracy Class E1 And micro Balances (d=0.01 mg) as per OIML R 111-1:2004 By Substitution Method. ABBA Weighing Cycle.	100 g	0.03 mg
37	MECHANICAL-WEIGHTS	Mass- Weights (E2 Class & Coarser)	Using Weights of Accuracy Class E1 And ultra micro Balances (d=0.001 mg) as per OIML R 111-1:2004 By Substitution Method. ABBA Weighing Cycle	2 g	0.005 mg
38	MECHANICAL-WEIGHTS	Mass- Weights (E2 Class & Coarser)	Using Weights of Accuracy Class E1 And micro Balances (d=0.01 mg) as per OIML R 111-1:2004 By Substitution Method. ABBA Weighing Cycle	20 g	0.01 mg



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39	MECHANICAL-WEIGHTS	Mass- Weights (E2 Class & Coarser)	Using Weights of Accuracy Class E1 And micro Balances (d=0.01 mg) as per OIML R 111-1:2004 By Substitution Method. ABBA Weighing Cycle.	200 g	0.04 mg
40	MECHANICAL-WEIGHTS	Mass- Weights (E2 Class & Coarser)	Using Weights of Accuracy Class E1 And ultra micro Balances (d=0.001 mg) as per OIML R 111-1:2004 By Substitution Method. ABBA Weighing Cycle	5 g	0.007 mg
41	MECHANICAL-WEIGHTS	Mass- Weights (E2 Class & Coarser)	Using Weights of Accuracy Class E1 And micro Balances (d=0.01 mg) as per OIML R 111-1:2004 By Substitution Method. ABBA Weighing Cycle	50 g	0.02 mg



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42	MECHANICAL-WEIGHTS	Mass- Weights (E2 Class & Coarser)	Using Weights of Accuracy Class E1 And Precision Balances (d=0.001 g) as per OIML R 111-1:2004 By Substitution Method. ABBA Weighing Cycle.	1 kg	0.001 g
43	MECHANICAL-WEIGHTS	Mass- Weights (E2 Class & Coarser)	Using Weights of Accuracy Class E1 And Precision Balances(d=0.001 g) as per OIML R 111-1:2004 By Substitution Method. ABBA Weighing Cycle	10 kg	0.003 g
44	MECHANICAL-WEIGHTS	Mass- Weights (E2 Class & Coarser)	Using Weights of Accuracy Class E1 And Precision Balances (d=0.001 g) as per OIML R 111-1:2004 By Substitution Method. ABBA Weighing Cycle.	2 kg	0.002 g



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45	MECHANICAL-WEIGHTS	Mass- Weights (E2 Class & Coarser)	Using Weights of Accuracy Class E1 And Precision Balances (d=0.01 g) as per OIML R 111-1:2004 By Substitution Method. ABBA Weighing Cycle.	20 kg	0.01 g
46	MECHANICAL-WEIGHTS	Mass- Weights (E2 Class & Coarser)	Using Weights of Accuracy Class E1 And Precision Balances (d=0.001 g) as per OIML R 111-1:2004 By Substitution Method. ABBA Weighing Cycle.	5 kg	0.002 g
47	MECHANICAL-WEIGHTS	Mass- Weights (E2 Class & Coarser)	Using Weights of Accuracy Class E1 And Precision Balances (d=0.001 g) as per OIML R 111-1:2004 By Substitution Method. ABBA Weighing Cycle.	500 g	0.001 g



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48	MECHANICAL-WEIGHTS	Mass- Weights (E2 Class & Coarser)	Using Weights of Accuracy Class E1 And ultra micro Balances (d=0.001 mg) as per OIML R 111-1:2004 By Subdivision Method. ABBA Weighing Cycle	1 mg	0.002 mg
49	MECHANICAL-WEIGHTS	Mass- Weights (E2 Class & Coarser)	Using Weights of Accuracy Class E2 And ultra micro Balances (d=0.001 mg) as per OIML R 111-1:2004 By Subdivision Method. ABBA Weighing Cycle	100 mg	0.002 mg
50	MECHANICAL-WEIGHTS	Mass- Weights (E2 Class & Coarser)	Using Weights of Accuracy Class E1 And ultra micro Balances (d=0.001 mg) as per OIML R 111-1:2004 By Subdivision Method. ABBA Weighing Cycle	2 mg	0.002 mg



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51	MECHANICAL-WEIGHTS	Mass- Weights (E2 Class & Coarser)	Using Weights of Accuracy Class E1 And ultra micro Balances (d=0.001 mg) as per OIML R 111-1:2004 By Subdivision Method. ABBA Weighing Cycle	20 mg	0.002 mg
52	MECHANICAL-WEIGHTS	Mass- Weights (E2 Class & Coarser)	Using Weights of Accuracy Class E1 And ultra micro Balances (d=0.001 mg) as per OIML R 111-1:2004 By Subdivision Method. ABBA Weighing Cycle	5 mg	0.002 mg
53	MECHANICAL-WEIGHTS	Mass- Weights (E2 Class & Coarser)	Using Weights of Accuracy Class E1 And ultra micro Balances (d=0.001 mg) as per OIML R 111-1:2004 By Subdivision Method. ABBA Weighing Cycle	50 mg	0.002 mg



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54	MECHANICAL-WEIGHTS	Mass- Weights (E2 Class & Coarser)	Using Weights of Accuracy Class E1 And ultra micro Balances (d=0.001 mg) as per OIML R 111-1:2004 By Subdivision Method. ABBA Weighing Cycle	500 mg	0.003 mg



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Site Facility					
1	MECHANICAL-WEIGHING SCALE AND BALANCE	Analytical balance , Resolution ,d= 0.001 g	Using E1 class weights	10 mg to 10 kg	0.003 g
2	MECHANICAL-WEIGHING SCALE AND BALANCE	Micro balance, Resolution ,d= 0.001 mg	Using E1 class weights	1 mg to 5 g	0.009 mg
3	MECHANICAL-WEIGHING SCALE AND BALANCE	Ordinary balance , Resolution ,d= 1.0 g	Using E1 class weights	100 g to 60.0 kg	2.0 g
4	MECHANICAL-WEIGHING SCALE AND BALANCE	Precision balance , Resolution ,d= 0.01 g	Using E1 class weights	100 mg to 30 kg	0.02 g
5	MECHANICAL-WEIGHING SCALE AND BALANCE	Semi micro balance, Resolution ,d= 0.01 mg	Using weights E1 class	1 mg to 200 g	0.04 mg
6	MECHANICAL-WEIGHING SCALE AND BALANCE	Semi micro balance, Resolution ,d= 0.1 mg	Using E1 class weights	1 mg to 300 g	0.2 g
7	MECHANICAL-WEIGHING SCALE AND BALANCE	Ultra micro balance , Resolution , d= 0.0001 mg	using E1 class weights	1 mg to 5 g	0.005 mg



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

