



UDEHRA MECHANICAL WORKS (LUDHIANA)

Form No.: QA/F-5.8/01

Rev. No.: 00

Master List of TMMEs

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Last updated on: 03-03-2026

SN	Equipment ID	Equipment				calibration agency	Location	Acceptance Criteria	Calibration					Remarks
		Description	Least Count	Range	Make/Serial No.				Method	Frequency	Calibrated on	Due Date	Certificate No.	
1	DHT-01	DIGITAL ROCKWELL HARDNESS TESTER	0.1 HRC/HRBW	0-150KGF	1/2019-3824	QUALITY CALIBRATION SOLUTIONS	LAB	±2 HRC,HRBW	IS : 1586 (Part-2)2018	1 YEAR	21.07.2025	20.07.2026	QCS/2024/61/002	
2	DHT-02	UNIVERSAL TESTING MACHINE	0.01 KN	0-1000 KN	12/2005-3327	QUALITY CALIBRATION SOLUTIONS	LAB	1%,Class-1	IS-1828(Part-1) 2022	1 YEAR	21.07.2025	20.07.2026	QCS/2024/61/004	
3	DHT-03	VICKER HARDNESS TESTER	0.001 MM	0-50KGF	04/2013-1391	QUALITY CALIBRATION SOLUTIONS	LAB	10 HV	IS-1501 -2013	1 YEAR	21.07.2025	20.07.2026	QCS/2024/61/003	
4	DHT-04	ROCKWELL HARDNESS TESTER	1 HRC/HRBW	0-150KGF	08-08-057	QUALITY CALIBRATION SOLUTIONS	H/T	±2 HRBW,HRC	IS 1586(Part-2)2018	1 YEAR	21.07.2025	20.07.2026	QCS/2024/61/001	
5	DTC-01	DIGITAL TEMPERATURE CONTROLLER WITH THERMOCOUPLE	1°C	0 °to -150°C	Selec	PINPOINT PRECISION CALIBRATION LAB PVT LTD	LAB	±5°C	CG: 11-2007	1 YEAR	02/01/2026	01/01/2027	PPCLA/A/2026/005-028	
6	DTC-01	DIGITAL TEMPERATURE CONTROLLER WITH THERMOCOUPLE	1°C	0 °to 50°C	Selec	PINPOINT PRECISION CALIBRATION LAB PVT LTD	SALT SPRAY	±5°C	CG: 11-2007	1 YEAR	02/01/2026	01/01/2027	PPCLA/A/2026/005-031	
7	S-01	STEEL SCALE	1 mm	0-300 mm	Kristeel	PINPOINT PRECISION CALIBRATION LAB PVT LTD	LAB	±0.5MM	IS 1481-2014	1 YEAR	02/01/2026	01/01/2027	PPCLA/A/2026/005-022	
8	DG-01	PLUNGER TYPE DIAL GAUGE	0.001 mm	0-1 mm	Baker	PINPOINT PRECISION CALIBRATION LAB PVT LTD	LAB	±0.02 MM	IS 2092-2019	1 YEAR	02/01/2026	01/01/2027	PPCLA/A/2026/005-030	
9	DCT-01	COATING THICKNESS GAUGE	0.1/1 µm	0-1350 µm	ELCOMETER	PINPOINT PRECISION CALIBRATION LAB PVT LTD	LAB	±0.1 µm	IS 6012-2021	1 YEAR	02/01/2026	01/01/2027	PPCLA/A/2026/005-024	
10	DCT-02	COATING THICKNESS GAUGE	0.1/1 µm	0-1300 µm	Aqmezzure	PINPOINT PRECISION CALIBRATION LAB PVT LTD	LAB	±0.1 µm	IS 6012-2021	1 YEAR	02/01/2026	01/01/2027	PPCLA/A/2026/005-022	
11	MT-01	MEASURING TAPE	1 mm	0-5000 mm	Freemans	PINPOINT PRECISION CALIBRATION LAB PVT LTD	LAB	±1 mm	IS 1269 Part -1-2018	1 YEAR	02/01/2026	01/01/2027	PPCLA/A/2026/005-021	
12	VC-01	DIGITAL VERNIER CALIPER	0.01 mm	0-200 mm	Mitutoyo	PINPOINT PRECISION CALIBRATION LAB PVT LTD	LAB	±0.02 mm	IS 16491 Part-1-2021	1 YEAR	02/01/2026	01/01/2027	PPCLA/A/2026/005-017	
13	VC-04	DIGITAL VERNIER CALIPER	0.01 mm	0-200 mm	Mitutoyo	PINPOINT PRECISION CALIBRATION LAB PVT LTD	LAB	± 0.02mm	IS 16491 Part-1-2021	1 YEAR	02/01/2026	01/01/2027	PPCLA/A/2026/005-009	
14	VC-05	DIGITAL VERNIER CALIPER	0.01 mm	0-200 mm	Mitutoyo	PINPOINT PRECISION CALIBRATION LAB PVT LTD	LAB	± 0.02mm	IS 16491 Part-1-2021	1 YEAR	02/01/2026	01/01/2027	PPCLA/A/2026/005-010	
15	VC-06	DIGITAL VERNIER CALIPER	0.01 mm	0-200 mm	Mitutoyo	PINPOINT PRECISION CALIBRATION LAB PVT LTD	LAB	± 0.02mm	IS 16491 Part-1-2021	1 YEAR	02/01/2026	01/01/2027	PPCLA/A/2026/005-004	
16	VC-07	DIGITAL VERNIER CALIPER	0.01 mm	0-200 mm	Mitutoyo	PINPOINT PRECISION CALIBRATION LAB PVT LTD	LAB	± 0.02mm	IS 16491 Part-1-2021	1 YEAR	02/01/2026	01/01/2027	PPCLA/A/2026/005-005	
17	VC-08	DIGITAL VERNIER CALIPER	0.01 mm	0-200 mm	Mitutoyo	PINPOINT PRECISION CALIBRATION LAB PVT LTD	LAB	± 0.02mm	IS 16491 Part-1-2021	1 YEAR	02/01/2026	01/01/2027	PPCLA/A/2026/005-012	
18	VC-10	DIGITAL VERNIER CALIPER	0.01 mm	0-200 mm	Mitutoyo	PINPOINT PRECISION CALIBRATION LAB PVT LTD	LAB	± 0.02mm	IS 16491 Part-1-2021	1 YEAR	02/01/2026	01/01/2027	PPCLA/A/2026/005-016	
19	VC-11	DIGITAL VERNIER CALIPER	0.01 mm	0-200 mm	Mitutoyo	PINPOINT PRECISION CALIBRATION LAB PVT LTD	LAB	± 0.02mm	IS 16491 Part-1-2021	1 YEAR	02/01/2026	01/01/2027	PPCLA/A/2026/005-013	
20	VC-12	DIGITAL VERNIER CALIPER	0.01 mm	0-200 mm	Mitutoyo	PINPOINT PRECISION CALIBRATION LAB PVT LTD	LAB	± 0.02mm	IS 16491 Part-1-2021	1 YEAR	02/01/2026	01/01/2027	PPCLA/A/2026/005-008	
21	VC-13	DIGITAL VERNIER CALIPER	0.01 mm	0-200 mm	Mitutoyo	PINPOINT PRECISION CALIBRATION LAB PVT LTD	LAB	± 0.02mm	IS 16491 Part-1-2021	1 YEAR	02/01/2026	01/01/2027	PPCLA/A/2026/005-015	





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22	VC-14	DIGITAL VERNIER CALIPER	0.01 mm	0-200 mm	Mitutoyo	PINPOINT PRECISION CALIBRATION LAB PVT LTD	LAB	± 0.02mm	IS 16491 Part-1-2021	1 YEAR	02/01/2026	01/01/2027	PPCLA/A/2026/005-014	
23	VC-15	DIGITAL VERNIER CALIPER	0.01 mm	0-200 mm	Mitutoyo	PINPOINT PRECISION CALIBRATION LAB PVT LTD	LAB	± 0.02mm	IS 16491 Part-1-2021	1 YEAR	02/01/2026	01/01/2027	PPCLA/A/2026/005-011	
24	PP-01	PROFILE PROJECTOR	0.001 mm/1sec	X-150mm, Y-150mm/Ang.-360°	Mitutoyo	PINPOINT PRECISION CALIBRATION LAB PVT LTD	LAB	Linear Error ±0.05 mm, Angular error ±30", Magnification Error ±0.1%	JIS B 7184-2021	1 YEAR	02/01/2026	01/01/2027	PPCLA/A/2026/005-027	
25	MPI-01	MAGNETIC CRACK DETECTOR(Ampere Meter)	100 Amp.(AC)	0-3000 Amp.(AC)	AE	PINPOINT PRECISION CALIBRATION LAB PVT LTD	LAB	±5% Amp	IS-1248-9-2021	1 YEAR	02/01/2026	01/01/2027	PPCLA/A/2026/005-037	
26	HD-01	HYDROMETER	0.01 Specific Gravity	1.000-2.000 Specific Gravity	Glass X	PINPOINT PRECISION CALIBRATION LAB PVT LTD	LAB	PPCLA/A/2026/001-001	IS-3104	1 YEAR	02/01/2026	01/01/2027	PPCLA/A/2026/001-001	
27	HM-01	Digital Timer/Thermo Hygrometer	0.1°C/1% RH	0.24 Hr	HTC	PINPOINT PRECISION CALIBRATION LAB PVT LTD	LAB	1 Sec	DKD-R-5-7	1 YEAR	02/01/2026	01/01/2027	PPCLA/A/2026/005-025	
28	DT-01	Digital Timer	1Sec	0-24 HOURS	Ajanta	PINPOINT PRECISION CALIBRATION LAB PVT LTD	H/T	1 Sec	NIST 960-12-(2011)	1 YEAR	02/01/2026	01/01/2027	PPCLA/A/2026/005-035	
29	FG-01	FEELER GAUGE	0.03	0.03-1 mm	Atul	PINPOINT PRECISION CALIBRATION LAB PVT LTD	LAB	±0.01	IS-3179-2022	1 YEAR	02/01/2026	01/01/2027	PPCLA/A/2026/005-019	
30	PG-01	THREAD PITCH GAUGE	N.A	0.25-6.0 mm	Kristeel	PINPOINT PRECISION CALIBRATION LAB PVT LTD	LAB	±0.02 MM	IS-4211-2019	1 YEAR	02/01/2026	01/01/2027	PPCLA/A/2026/005-020	
31	MC-01	DIGITAL EXTERNAL MICROMETER	0.001 mm	0-25 mm	Mitutoyo	PINPOINT PRECISION CALIBRATION LAB PVT LTD	LAB	±0.02mm	IS 2967-2019	1 YEAR	02/01/2026	01/01/2027	PPCLA/A/2026/005-001	
32	MC-02	DIGITAL EXTERNAL MICROMETER	0.001 mm	25-50 mm	Mitutoyo	PINPOINT PRECISION CALIBRATION LAB PVT LTD	LAB	±0.02mm	IS 2967-2019	1 YEAR	02/01/2026	01/01/2027	PPCLA/A/2026/005-002	
33	MC-04	EXTERNAL MICROMETER	0.001 mm	25-50 mm	Baker	PINPOINT PRECISION CALIBRATION LAB PVT LTD	LAB	±0.01MM	IS 2967-2019	1 YEAR	02/01/2026	01/01/2027	PPCLA/A/2026/005-003	
34	MC-05	EXTERNAL MICROMETER	0.01 mm	50-75 mm	Baker	PINPOINT PRECISION CALIBRATION LAB PVT LTD	LAB	±0.01MM	IS 2967-2019	1 YEAR	02/01/2026	01/01/2027	PPCLA/A/2026/005-007	
35	MC-06	EXTERNAL MICROMETER	0.01 mm	0-25 mm	Mitutoyo	PINPOINT PRECISION CALIBRATION LAB PVT LTD	LAB	± 0.02mm	IS-2967-2019	1 YEAR	02/01/2026	01/01/2027	PPCLA/A/2026/005-006	
36	WS-01	DIGITAL WEIGHING BALANCE	0.02 Kg	0-200 Kg	Impact	PINPOINT PRECISION CALIBRATION LAB PVT LTD	PACKING	±1 kgs	OIML-R-76(2006)	1 YEAR	02/01/2026	01/01/2027	PPCLA/A/2026/005-036	
37	SP-01	CAST IRON SURFACE PLATE	N.A	450 X 450 mm	Luthra	PINPOINT PRECISION CALIBRATION LAB PVT LTD	HEAT TREATMENT	±0.028MM	IS: 2285-2003	1 YEAR	02/01/2026	01/01/2027	PPCLA/A/2026/005-034	
38	PG-01	PRESSURE GAUGE	0.4 kg/cm2	0-10 kg/cm2	-	PINPOINT PRECISION CALIBRATION LAB PVT LTD	Salt Spray	±0.02MM	DKD-R 6-1 - 2014	1 YEAR	02/01/2026	01/01/2027	PPCLA/A/2026/005-033	
39	TC-01	THERMOCOUPLE	N/A	0 °to -150°C	-	PINPOINT PRECISION CALIBRATION LAB PVT LTD	LAB	PPCL-T-WI-02	DKD-R-5-1	1 YEAR	02/01/2026	01/01/2027	PPCLA/A/2026/005-029	
40	TC-01	THERMOCOUPLE	N/A	0 °to -50°C	-	PINPOINT PRECISION CALIBRATION LAB PVT LTD	SST-01	PCL-T-WI-02	DKD-R-5-1	1 YEAR	02/01/2026	01/01/2027	PPCLA/A/2026/005-032	
41	IMPACT -01	IMPACT TESTING MACHINE	2 J	0-300 J	07/2016-1382	BLUE STAR ENGINEERING & ELECTRONICS LIMITED	LAB	±2J	ASTM-E-23-18	1 YEAR	25/08/2025	25/08/2026	IT/2025 2026/384	





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42	PMI-01	NITON XRF ANALYSER	-	-	109619	ESSKAY COMPUSERVICES PVT LTD	LAB	-	Comparison Method using NIST Traceable CRM standards	1 YEAR	01/11/2025	01/11/2026	3368-2033	
43	MS-01	METALLURGICAL MICROSCOPE	10X	5X,10X,20X,50X,100X	MD50-B	QUALITY SYSTEMS	LAB	-	ISO-10936-1:2017	1 YEAR	04/03/2025	05/03/2027	QS/24030026	
44	TTM	BOLT TORQUE TENSION TESTING SYSTEM	1 Nm	0Nm TO 5000 N1m	BTM21-0001	SUSHMA	LAB	-	BS 7882 : 2017	2 YEAR	30/05/2026	29/05/2027	CPL/CC/0612/05/2026-2027	

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Auth. Signatory