



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

DVG LABORATORIES AND CONSULTANTS PVT LTD, HOSPITAL ROAD, VILLAGE WAZIRABAD, GURGAON, HARYANA, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2101

**Page No**

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**Validity**

23/02/2019 to 22/02/2021\*

**Last Amended on**

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\*The validity is extended for one year up to 22.02.2022

\*The scope of accreditation has been modified w.e.f from 14.09.2021 and is valid till 22.02.2022

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-ACCELERATION AND SPEED	Digital/ Analog Tachometer (Non Contact Type)	Using digital tachometer and rotating disc of electric motor as RPM Source	100 rpm to 1000 rpm	1.5 %
2	MECHANICAL-ACCELERATION AND SPEED	Digital/ Analog Tachometer (Non Contact Type)	Using Digital Tachometer and Rotating Disc of Electric Motor as RPM Source	20 rpm to 100 rpm	2.75 %
3	MECHANICAL-ACCELERATION AND SPEED	Digital/Analog Tachometer (Non Contact Type)	Using digital tachometer and rotating disc of electric motor as RPM Source	1000 rpm to 26000 rpm	0.2%
4	MECHANICAL-FORCE PROVING INSTRUMENTS	Force/Force/Load Cell, Proving Ring, Dynamometer	IS 4169, ISO 376, ASTM E74/Dead Weight Force Machine	1 kN to 50 kN	0.05%
5	MECHANICAL-FORCE PROVING INSTRUMENTS	Force/Force/Load Cell, Proving Ring, Dynamometer	IS 4169, ISO 376, ASTM E74/Dead Weight Force Machine	200 N to 5 kN	0.05%



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6	MECHANICAL-MOBILE FORCE MEASURING SYSTEM	Push Pull Gauge	Using Newtonian Weights & Fixture Frame based on VDI/VDE 2624 (Part 2.1)	5 N to 500 N	1.0N
7	MECHANICAL-PRESSURE BALANCE OR DEAD WEIGHT TESTER	Hydraulic Pressure/ Dead Weight Tester	Hydraulic Pressure/ Using Fluke P3125XT- Mpa Deadweight Tester By Cross Float Comparison Method Euramet CG-3	0.35 MPa to 3.5 MPa	0.009%
8	MECHANICAL-PRESSURE BALANCE OR DEAD WEIGHT TESTER	Hydraulic Pressure/ Dead Weight Tester	Hydraulic Pressure/ Using Fluke P3125XT- Mpa Deadweight Tester By Cross Float Comparison Method Euramet CG-3	3.5 MPa to 120 MPa	0.009%
9	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure/Digital Analog Pressure Gauge/Transmitter/S witch	Using Fluke Dead Weight Tester ,6.5 digit Fluke DMM As per DKD R6 by Direct Method	0.1 Mpa to 3.5 Mpa	0.009%



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10	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure/Digital Analog Hydraulic Pressure Gauge/Transmitter/Switch	Using Fluke Dead Weight Tester, 6.5 digit Fluke DMM DKD R-6 by Direct Method	2 MPa to 120 MPa	0.03%
11	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure/Digital Analog Pressure Gauge/Transmitter/Switch	Using Reference Standard Pressure Gauge, 6.5 digit Fluke DMM by Comparison Method DKD R6-1	0 to 70 bar	0.01bar
12	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure/Digital Analog Pressure Gauge/Transmitter/Switch	Using Reference Standard Pressure Gauge, 6.5 digit Fluke DMM by Comparison Method DKD R6-1	0 to 700 bar	0.1bar
13	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure/Digital Analog Pressure Gauge/Transmitter/Switch	Using Reference Standard Pressure Gauge, 6.5 digit Fluke DMM by Comparison Method DKD R6-1	0 to 20 bar	0.002bar





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14	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure/Digital Analog Pressure Gauge/Transmitter/S witch	Using Digital Pressure Gauge ,6.5 digit Fluke DMM by Comparison Method DKD R6-1	0 to 30 bar	0.01bar
15	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum /Digital Analog Vacuum Gauge/Transmitter/S witch	Using Reference Standard Pressure Gauge ,6.5 digit Fluke DMM by Comparison Method DKD R6-1	-0.9 bar to 0	0.002bar
16	MECHANICAL-TORQUE GENERATING DEVICES	Torque Generating Tools Type 1/Type II	Using Torque Transducer with Indicator & Torque Wrench based on IS /ISO 6789:	100 Nm to 1000 Nm	1.52 %
17	MECHANICAL-TORQUE GENERATING DEVICES	Torque Generating Tools Type 1/Type II	Using Torque Transducer with Indicator & Torque Wrench based on IS/ISO 6789	5 Nm to 100 Nm	2.37%
18	MECHANICAL-VOLUME	Glass Pipettes/Burettes	Using Semi Micro Balance and distilled Water by gravimetric method	1 ml to 25 ml	1.05µl



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19	MECHANICAL-VOLUME	Glass Pipettes/Burettes	Using Semi Micro Balance and Distilled Water by Gravimetric Method	25 ml to 100 ml	1.21µl
20	MECHANICAL-VOLUME	Measuring Cylinder/Volumetric Flask/Conical Flask/Beaker etc	Using Semi Micro balance and distilled water by gravimetric method	1 ml to 100 ml	1.5µl
21	MECHANICAL-VOLUME	Measuring Cylinder/Volumetric Flask/Conical Flask/Beaker etc	Using 6200 g Balance of Resolution 10 mg and distilled water by gravimetric method	1000 ml to 5000 ml	5ml
22	MECHANICAL-VOLUME	Measuring Cylinder/Volumetric Flask/Conical Flask/Beaker, Kane etc	Using 1kg Balance of Resolution 1 mg and distilled water by gravimetric method	100 ml to 1000 ml	1.95ml
23	MECHANICAL-VOLUME	Piston Pipette	Using digital balance of resolution 0.01 mg upto 200 g as per ISO 8655-6	10 µl to 1000 µl	0.28µl



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24	MECHANICAL-VOLUME	Piston Pipette	Using digital balance of 200 g with resolution of 0.01 mg as per ISO 8655-6	1000 µl to 10000 µl	13
25	MECHANICAL-WEIGHING SCALE AND BALANCE	d= 10 mg and coarser	Using F1 Class Weights for calibration of weighing scales as per OIML R76-1	1 kg to 5 kg	10mg
26	MECHANICAL-WEIGHING SCALE AND BALANCE	d= 5 g and coarser	Using F1 Class Weights for calibration of weighing scales as per OIML R76-1	5 kg to 50 kg	2.8g
27	MECHANICAL-WEIGHING SCALE AND BALANCE	d=1 mg and coarser	Using E2 and F1 Class weights for calibration of weighing balances as per OIML-R76-1	200 g to 1 kg	1.7mg
28	MECHANICAL-WEIGHING SCALE AND BALANCE	Micro Balance d=0.001 mg and coarser	Using standard weights of E1 Class as per OIML R 76-1	0 g to 50 g	0.02mg





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29	MECHANICAL-WEIGHING SCALE AND BALANCE	Micro Balance d=0.01 mg and coarser	Using E1 Class weights for calibration of electronic weighing balance as per OIML R76-1	1 mg to 200 g	0.07mg
30	MECHANICAL-WEIGHTS	Mass / Weights (Class F2 Accuracy and Coarser)	Using weights of accuracy class F1 and digital balance of resolution 1 mg by substitution method and ABBA weighing cycle based on OIML R111	1 kg	2.97mg
31	MECHANICAL-WEIGHTS	Mass / Weights (Class F2 Accuracy and Coarser)	Using weights of accuracy class E2 and digital balance of resolution 0.01 mg by substitution method & ABBA weighing cycle based on OIML R111	1 mg to 5 g	0.02mg



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32	MECHANICAL-WEIGHTS	Mass / Weights (Class F2 Accuracy and Coarser)	Using weights of accuracy class E2 and digital balance of resolution 0.01 mg by substitution method and ABBA weighing cycle based on OIML R111	10 g to 20 g	0.03mg
33	MECHANICAL-WEIGHTS	Mass / Weights (Class F2 Accuracy and Coarser)	Using weights of accuracy class E2 and digital balance of resolution 0.01 mg by substitution method and ABBA weighing cycle based on OIML R111	100 g	0.08mg
34	MECHANICAL-WEIGHTS	Mass / Weights (Class F2 Accuracy and Coarser)	Using weights of accuracy class F1 and digital balance of resolution 10 mg by substitution method and ABBA weighing cycle based on OIML R111	5 kg	35mg





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35	MECHANICAL-WEIGHTS	Mass / Weights (Class F2 Accuracy and Coarser)	Using weights of accuracy class E2 and digital balance of resolution 0.01 mg by substitution method and ABBA weighing cycle based on OIML R111	50 g	0.05mg
36	MECHANICAL-WEIGHTS	Mass / Weights (Class M1 Accuracy and Coarser)	Using weights of accuracy class F1 and digital balance of resolution 1 mg by substitution method and ABBA weighing cycle based on OIML R111	500 g	1.6mg
37	MECHANICAL-WEIGHTS	Mass / Weights	Using weights of accuracy class F1 and digital balance of resolution 10 mg by substitution method and ABBA weighing cycle based on OIML R111	2 kg	20mg



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38	MECHANICAL-WEIGHTS	Mass / Weights	Using weights of accuracy class E2 and digital balance of resolution 0.01 mg by substitution method and ABBA weighing cycle based on OIML R111	200 g	0.15mg
39	THERMAL-SPECIFIC HEAT & HUMIDITY	RH Indicators with or In built/External Sensor, Thermo Hygrometers, Data loggers with RH Sensors	Using Rotronic RH Sensor with Indicator by Kaymont Humidity Generator	4 %RH to 95 %RH@ 25°C	0.43%RH
40	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature of RH Indicators with or In built/External Sensor , Thermo hygrometer, data logger with RH sensor	Using Rotronic RH and Temperature Sensor with Indicator by Kaymont Humidity Generator	10 °C to 50 °C@ 50% RH	0.30°C
41	THERMAL-TEMPERATURE	RTD, Thermocouple with our without Indicator, data logger, temperature gauge, digital thermometer, transmitter	Using RTD with Sensor with DMM by comparison method using dry block calibrator	100 °C to 600 °C	0.60°C



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42	THERMAL-TEMPERATURE	RTD, Thermocuple with our without Indicator, data logger, temperature gauge, digital thermometer, transmitter	Using 4 Wire RTD with Sensor with DMM by comparison method using dry block calibrator	-35 °C to 100 °C	0.19°C
43	THERMAL-TEMPERATURE	Temperature indicator of liquid bath, freezer, refrigerator, incubator, oven , furnace, environmental chamber, dry block comparator etc	Using RTD with Eurotherm Indicator by at single specified position method	-80 °C to 300 °C	0.6°C
44	THERMAL-TEMPERATURE	Temperature indicator of Oven , furnace, Dry block Comparator etc.	Using R Type Thermocouple with Druck DPI Indicator	300 °C to 1200 °C	2.95°C





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Site Facility					
1	MECHANICAL-ACCELERATION AND SPEED	RPM Indicator/Indicator of Centrifuge	Using digital tachometer	100 rpm to 1000 rpm	1.5%
2	MECHANICAL-ACCELERATION AND SPEED	RPM Indicator/Indicator of Centrifuge	Using digital tachometer	1000 rpm to 26000 rpm	0.2%
3	MECHANICAL-ACCELERATION AND SPEED	RPM Indicator/Indicator of Centrifuge	Using Digital Tachometer	20 rpm to 100 rpm	2.75 %
4	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Using reference hardness blocks as per IS 1500 -2 (Indirect Method)	HBW 10/3000	2.5%
5	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Using reference hardness blocks as per IS 1500-2 (Indirect Method)	HBW 2.5/187.5	3.0%
6	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Using reference hardness blocks as per 1500(part-2), indirect Method	5/750 HBW	3.0%
7	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using reference hardness blocks as per IS 1586-2 (Indirect Method)	HRA	0.50HRA



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8	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using reference hardness blocks as per US 1586-2(Indirect Method)	HRBW	0.87HRBW
9	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using reference hardness blocks as per IS 1586-2 (Indirect Verification)	HRC	0.60HRC
10	MECHANICAL-HARDNESS TESTING MACHINES	Vicker Testing Machine	Using reference hardness blocks as per IS 1501-2 (Indirect Verification)	HV10	2.86%
11	MECHANICAL-HARDNESS TESTING MACHINES	Vicker Testing Machine	Using reference hardness blocks as per IS 1501-2 (Indirect Verification)	HV30	2.36%
12	MECHANICAL-HARDNESS TESTING MACHINES	Vicker Testing Machine	Using reference hardness blocks as per IS 1501(Part-2) (Indirect Method):	HV5	2.06%



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13	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure/Digital Analog Pressure Gauge/Transmitter/S witch	Using Reference Standard Pressure Gauge,6.5 digit Fluke DMM by Comparison Method DKD R6-1	0 to 70 bar	0.01bar
14	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure/Digital Analog Pressure Gauge/Transmitter/S witch	Using Reference Standard Pressure Gauge ,6.5 digit Fluke DMM by Comparison Method DKD R6-1	0 to 700 bar	0.1bar
15	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure/Digital Analog Pressure Gauge/Transmitter/S witch	Using Reference Standard Pressure Gauge,6.5 digit Fluke DMM by Comparison Method DKD R6-1	0 to 20 bar	0.002bar
16	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure/Digital Analog Pressure Gauge/Transmitter/S witch	Using Digital Pressure Gauge ,6.5 digit Fluke DMM by Comparison Method DKD R6-1	0 to 30 bar	0.01bar





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17	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum /Digital Analog Vacuum Gauge/Transmitter/S witch	Using Reference Standard Pressure Gauge ,6.5 digit Fluke DMM by Comparison Method DKD R6-1	-0.9 bar to 0	0.002bar
18	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Force/Force/Uniaxial Static Testing Machines Compression & Tension	Compression & Tension mode upto 50kN as per IS 1828 & ISO 7500	1.0 kN to 50 kN	0.05%
19	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Force/Force/Uniaxial Static Testing Machines Compression/Tension	Compression Mode Using force proving instruments as per IS 1828 & ISO 7500	1(compression)0.2 (tensio kN to 2000 (compression)50 (ten kN	0.89% (compression) 0.89(tension)
20	MECHANICAL-WEIGHING SCALE AND BALANCE	d= 10 mg and coarser	Using F1 Class Weights for calibration of weighing scales as per OIML R76-1	1 kg to 5 kg	10mg



# National Accreditation Board for Testing and Calibration Laboratories

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<b>Laboratory Name :</b>	DVG LABORATORIES AND CONSULTANTS PVT LTD, HOSPITAL ROAD, VILLAGE WAZIRABAD, GURGAON, HARYANA, INDIA		
<b>Accreditation Standard</b>	ISO/IEC 17025:2017		
<b>Certificate Number</b>	CC-2101	<b>Page No</b>	16 of 18
<b>Validity</b>	23/02/2019 to 22/02/2021*	<b>Last Amended on</b>	-

\*The validity is extended for one year up to 22.02.2022

\*The scope of accreditation has been modified w.e.f from 14.09.2021 and is valid till 22.02.2022

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)(±)
21	MECHANICAL-WEIGHING SCALE AND BALANCE	d= 5 g and coarser	Using F1 Class Weights for calibration of weighing scales as per OIML R76-1	5 kg to 50 kg	2.8g
22	MECHANICAL-WEIGHING SCALE AND BALANCE	d=1 mg and coarser	Using E2 and F1 Class weights for calibration of weighing balances as per OIML-R76-1	200 g to 1 kg	1.7mg
23	MECHANICAL-WEIGHING SCALE AND BALANCE	Micro Balance d=0.001 mg and coarser	Using standard weights of E1 Class as per OIML R 76-1	0 g to 50 g	0.02mg
24	MECHANICAL-WEIGHING SCALE AND BALANCE	Micro Balance d=0.01 mg and coarser	Using E1 Class weights for calibration of electronic weighing balance as per OIML R76-1	1 mg to 200 g	0.07mg
25	THERMAL-SPECIFIC HEAT & HUMIDITY	Relative Humidity Indicator of Environmental Chambers	Using RH Indicator with probe by single specified position	4 % RH to 95 % RH @25°C	0.66%RH



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26	THERMAL-SPECIFIC HEAT & HUMIDITY	RH Indicators with or In built/External Sensor, Thermo Hygrometers, Data loggers with RH Sensors	Using Rotronic RH Sensor with Indicator by Kaymont Humidity Generator	4 %RH to 95 %RH@ 25°C	0.43%RH
27	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature of RH Indicators with or In built/External Sensor , Thermo hygrometer, data logger with RH sensor	Using Rotronic RH and Temperature Sensor with Indicator by Kaymont Humidity Generator	10 °C to 50 °C@ 50% RH	0.30°C
28	THERMAL-TEMPERATURE	Freezer, Oven, Incubator, Environmental Chamber etc	Using RTD with Eurotherm Datalogger by multiposition calibration using 9 sensors and data loggers(spatial mapping)	-35 °C to 300 °C	4.11°C
29	THERMAL-TEMPERATURE	RTD, Thermocouple with our without Indicator, data logger, temperature gauge, digital thermometer, transmitter	Using RTD with Sensor with DMM by comparison method using dry block calibrator	100 °C to 600 °C	0.60°C





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30	THERMAL-TEMPERATURE	RTD, Thermocuple with our without Indicator, data logger, temperature gauge, digital thermometer, transmitter	Using 4 Wire RTD with Sensor with DMM by comparison method using dry block calibrator	-35 °C to 100 °C	0.19°C
31	THERMAL-TEMPERATURE	Temperature indicator of liquid bath, freezer, refrigerator, incubator, oven , furnace, environmental chamber, dry block comparator etc	Using RTD with Eurotherm Indicator by at single specified position method	-80 °C to 300 °C	0.6°C
32	THERMAL-TEMPERATURE	Temperature indicator of Oven , furnace, Dry block Comparator etc.	Using R Type Thermocouple with Druck DPI Indicator	300 °C to 1200 °C	2.95°C

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