



IMPACTCALIBRATION AND TESTING SOLUTIONS P LTD

Sy No. 265/1, Next to Bangalore International Academy School, Soukya Road, Samethanahalli, Anugondanahalli,
Bangalore 560067. – M – 9741783908, E – Kailasnath.rao@impactlab.co.in



Date – 05 Jul. 25



Impact Calibration and testing Solutions Private Limited

Test Facility presentation

By

V.Kailasnath Rao
Managing Director

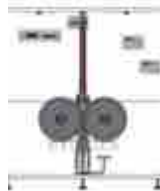


+919741783908

Environmental Test Facility

Vibration Shakers – 2 Nos		Climatic Chambers – 11 Nos		Vibration Integrated Climatic Chamber	
					
Axis – 3 Force – 6000kgf Sine, Random, Shock, SOR, ROR, RS etc. As per various IEC, MIL, JSS, ASTM standards		Volume – 180L to 4100L, Ramp rate 15°C/Minute Temp. -70 to +200°C RH – 10 -98% As per various IEC, MIL, JSS, ASTM		Volume – 3500 L -40 to +200°C, 98% Ramp rate – 3°C As per various standards like ISO, IEC, MIL, JSS etc	
Thermal Shock Chamber – 2 Nos		CATH / Altitude / Low pressure Test		Dust Test Chamber	
					
Volume – 180 L -65 to +200°C Basket shift <10 S As per various standards like ISO, IEC, MIL, JSS and other standards		Volume – 560 L -70 to +220°C RH – 98% Ramp rate – 3°C As per various standards like ISO, IEC, MIL, JSS etc		As per ISO 20653, IEC 60529, JSS 55555 and other standards IP1X to IP6X	
Corrosion Chamber – 2 Nos		UVA / UVB Chamber – 1 No		Rapid Decompression	3 Zone Thermo shock test
					
Volume – 800 L NSS, CASS, CCT test As per IS 9000, IEC 60068-2-52, ASTM B117, MIL 810G and other standards		Volume – 800 L UVA (315 ~ 400nm), UVB(280 ~ 315nm) As per ASTM G154, ASTM G151, JIS Z2371 and other standards			
Xenon Arc Aging Chamber – 2 Nos		Rain Chamber		Walk In Climatic Chamber – 2 nos.	
					
				Volume – 4100 L -55 to +135 °C, 98%RH	
Rain & Drip	UL Std. Rain test	Hot Air Oven	Ingress / Rain test	Fine Mist test	Immersion test
 MIL 810 JSS 55555 JIS 0203 IEC 60529 ISO 20653 And other		 35-1200 °C			
Acceleration test	Ozone Test	S02 Corrosion	Flammability test	ICE Water Splash Test	CASS Corrosion test
					

Mechanical Test Facility

Rockwell Hardness	Vickers Hardness	IZOD / Charpy Test	IK Impact test	UTM – 50 kN	UTM – 600kN
					
Torsion / Twist / Torque test	Ball Impact Test	Burst Pressure Test	Torque Test	Drop Tester	Box Compression Tester
					
Pressure Hold / Burst test for Hoses	Tilt / Angle measurement	Displacement / Position check	Shock test up to 250g	Cable Bend test	Cable Twist test
					
Spring Compression	Defence Connector fatigue test	Hose Burst test	Push button Endurance tester	Izod Charpy for plastics	3 Point Bend test
					

Electrical / Safety & connector related test

1. Insulation Resistance	8. Insertion and release force	15. Displacement / Stroke measurement
2. Contact resistance	9. Coupling and uncoupling force	16. Flow measurement
3. Voltage Drop	10. Insert retention test	17. Bending and twist fatigue test
4. Dielectric withstanding voltage test	11. Maintenance aging test	18. Tilt / Angle Measurements
5. AC/DC Withstanding voltage test	12. Temperature rise measurement	19. Vibration / Acceleration measurements
6. Ground bond strength test	13. Multichannel datalogging	
7. μ s discontinuity measurement	14. High / Low-Pressure Measurement	

AC/DC withstanding voltage test	2KW Power Supply	Micro Ohm Meter
		
Sound / Noise meter	Resistive Load – 10 + Nos	Accelerometer Calibration System
 B&K	 1. 5V, 220A 2. 16V, 4kw 3. 65V, 28kw 4. and few other rating	
Agilent DMM – 34401A	Power Supply – 30kw, 1000A	Datalogger
6½ digit resolution, functions 	 Output 0 to 30VDC, 0 to 1000A	 Up to 80 channel thermocouple data logger Automatic cold junction compensation
μs discontinuity meter	Power Meter – Yokogawa WT230	Fluke Scope meter 123
		 Dual-input 20 MHz digital oscilloscope. Two 5,000-count true- rms digital multimeters. 10 save setups and screens

Environment Testing

Dry Heat / High Temperature

Cold / Low Temperature

Humidity / Damp Heat

Condensation / Fine Mist

Temperature Cycling

Thermal Shock / Rapid change

UVA / UVB Test

Xenon Arc / Solar Radiation

CATH / Altitude Test

Rapid De compression

Salt Spray / Corrosion test

Fluid Susceptibility

IP X1 to IPX9K Water test

JIS 0203 Water test

MIL 810H Rain Drip test

JSS 55555 water Drip test

JSS 55555 Driving Rain

ISO 16750 Water splash

Mechanical Test

Vibration – Sine, Random, Shock

Vibration with Temperature

Resonance search

Shock – Half sine, Saw tooth

Acceleration test

Fatigue / Endurance test

Bending Moment

Twisting / Torque test

Tensile/ Compression/Peel

Toppling

Tip / Tip over

Box Compression

Drop test

Rockwell / Brinell Hardness

High pressure Burst test

Pressure leak test

Concentrated Impact test

Ball Drop test

Electrical / Safety test

Insulation Resistance

Hi-Pot / withstanding

Contact Resistance

Voltage Drop

Temperature rise test

μ S discontinuity monitoring

Battery Charging

Battery Discharging

Power source of various range

Switch Endurance test

Microohm ($\mu\Omega$) measurement

Position / Displacement

Angle / Tilt Measurement

Withstanding voltage test

Load / Force measurements

Variable AC / DC voltage source

Air velocity measurements

Endurance / Fatigue test

Paint / Coating related tests

Dry Film Thickness

Conical Mandrel

Color measurement

Pencil Hardness

Scrach Resistance

RCA Abrasion

MEK test

Cross cut adhesion

Impact test

Gloss measurement

UVA / UVB exposure

Xenon Arc test

Corrosion /Salt spray test

Thermal cycling test

Color matching cabinet

Color L*A*B / CIE measurements

Fluid immersion / contamination

Stone impact test

Electric Vehicle (EV Battery)

Charging / Discharging

Vibration test

Mechanical Shock Test

External Short Circuit test

Nail Penetration test

Thermal cycle test

Thermal Shock test

Charge /Discharge life

Over Charge test

Over Discharge test

Over Temp. test

Drop test

Withstanding Voltage test

Water Resistance test

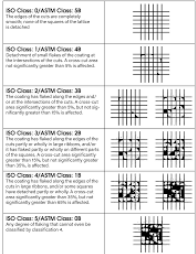
BMS Safety protection check

Battery pack air leakage test

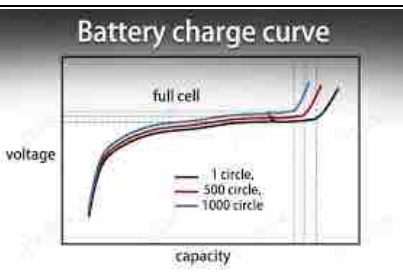
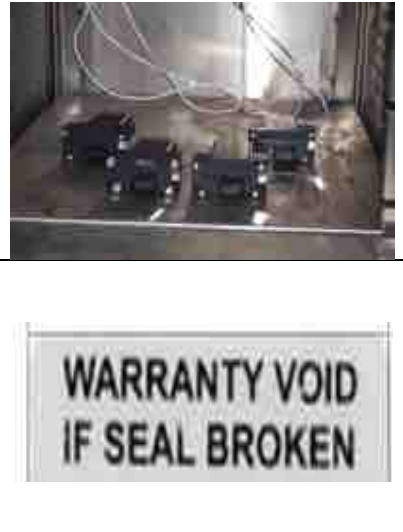
Ingress protection test

Strength related test

Paint and Coating Related tests facilities

Dry Film Thickness Gauge		Spectrophotometer		MEK Test	Cross cut adhesion test
					
RCA Abrasion Tester		Impact Tester		Color matching Booth	
					
Pencil Hardness Tester		Scratch Resistance Tester		Specular Gloss	
					
UV-A / UV-B – Test Chamber		Xenon Arc Chamber		Salt / Corrosion Chamber	
					
Xenon Arc Rotary Chamber		CASS Test		Chemical resistance	
					

Electric Vehicle / Part related tests

Battery-External Short circuit tes	Dash Board – Vibration test	EV Motor Shock test
		
EV Scooter – Front axle vibration	EV Battery – Vibration test	EV Axle – Vibration with temperature test
		
Battery / Cell Charge / Discharge	Thermal shock test - Battery	Thermal test - warranty sticker
 		

Non-Standard Test setups

Wiring harness current measurement



Triac current vs temp. rise



Contact retention test



Cable Twist test



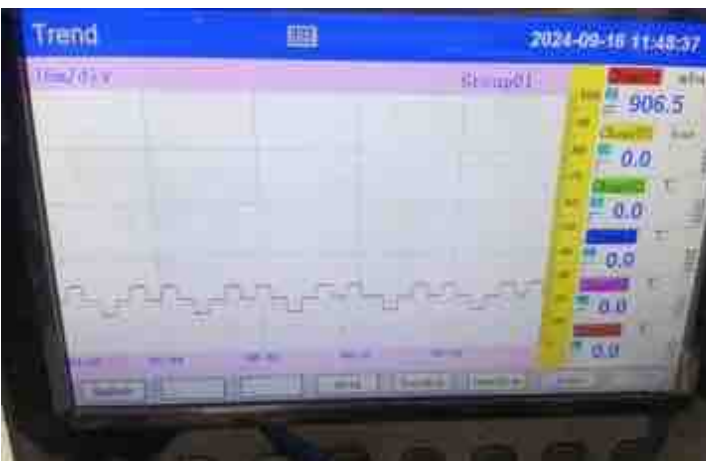
ICE water splash test – ISO 16750-4



Fatigue test in Dusty environment



Non-Standard Test setups – Contd..

3m Deep Immersion test on battery	Server rack Thermal test - walk in chamber	Industrial Cooler Test in walk in chamber	Server temp. test
			
53" TV Dust test – Active setup		Tow Hook Fatigue test for EV vehicle	
			
Pressure leak test		High / low pressure endurance / fatigue test graph	
			

Non-Standard Test setups – Contd..

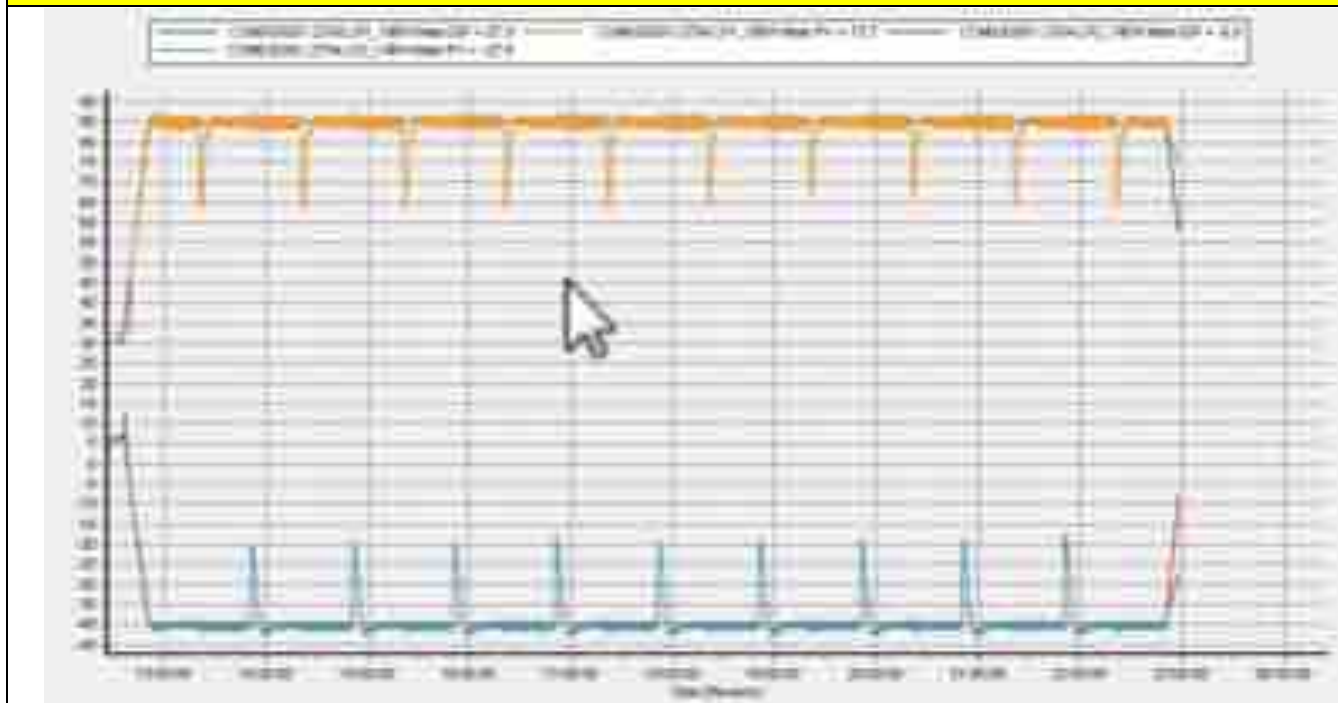
Connector Inserion and release Endurance test	Driving Rain Test – JSS 55555
	
Packaging vibration test – ISTA / ASTM	Cable Twist fatigue test
	
Drone – Temperature Test	Rain test – JIS 0203 – Active test
	

Non-Standard Test setups – Contd..

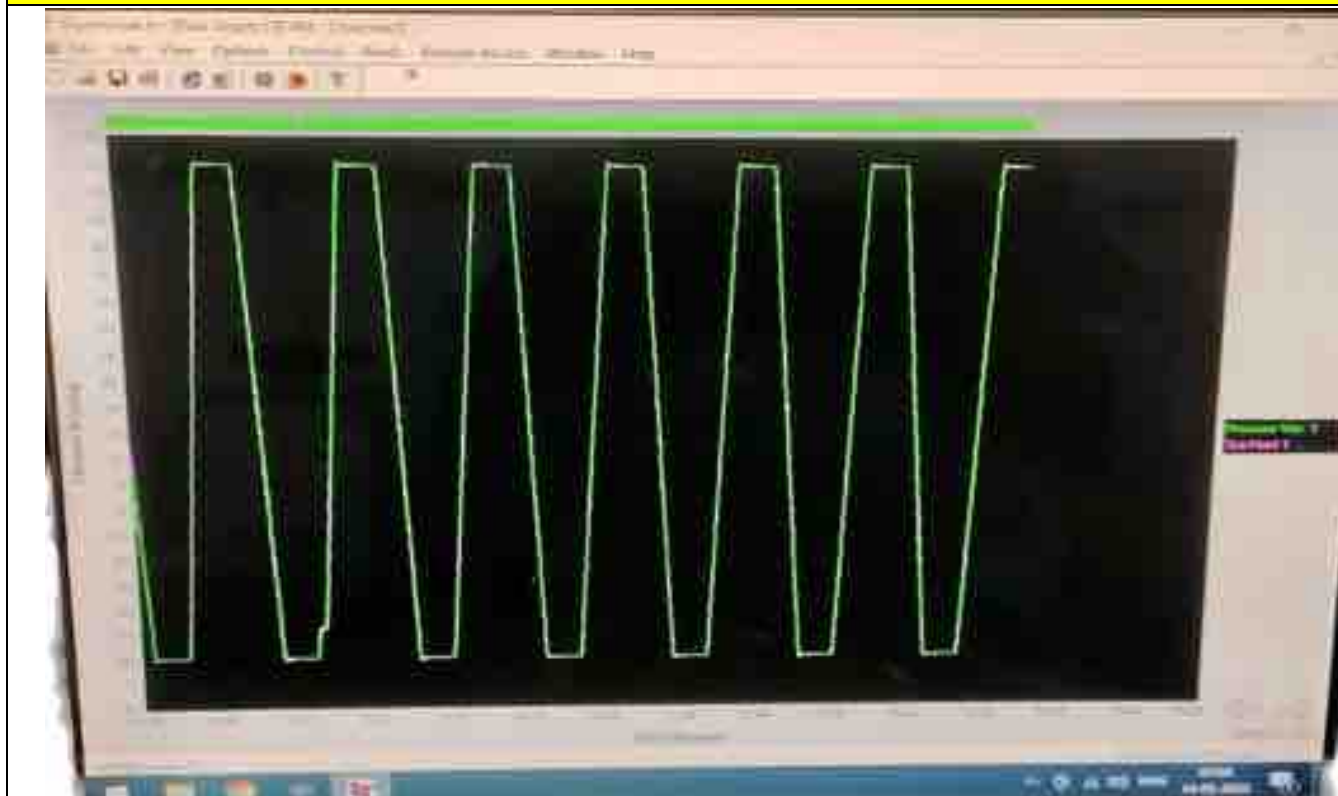
Railway-Pantograph vibration	Rivet Push test	Mil Std 810G – Drip test
		
Thermal shock test	Centrifuge Acceleration test	Dust test
		
3.5 meter Immersion test	Submarine system thermal	Aircraft warning lamp vibration
		

Test Graphs

Thermal shock test -40°C to +70°C

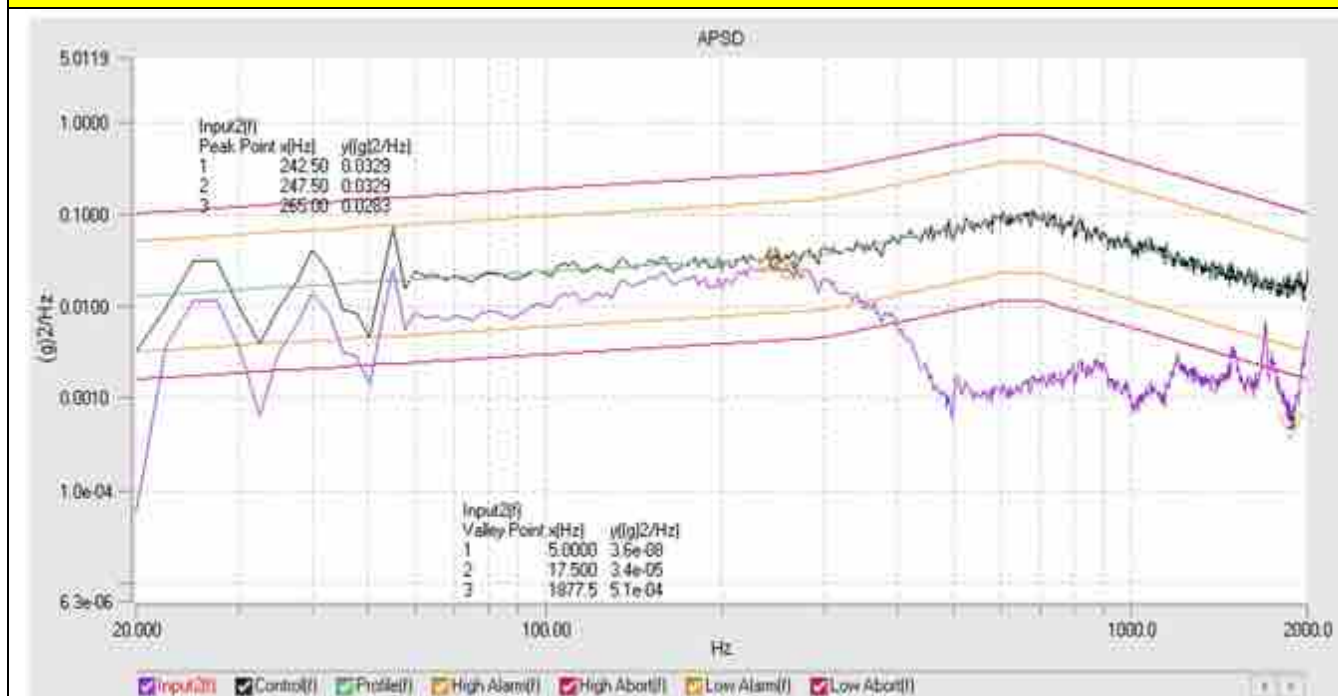


Thermal cycle - -20°C to +60°C – 15°C/ Minute

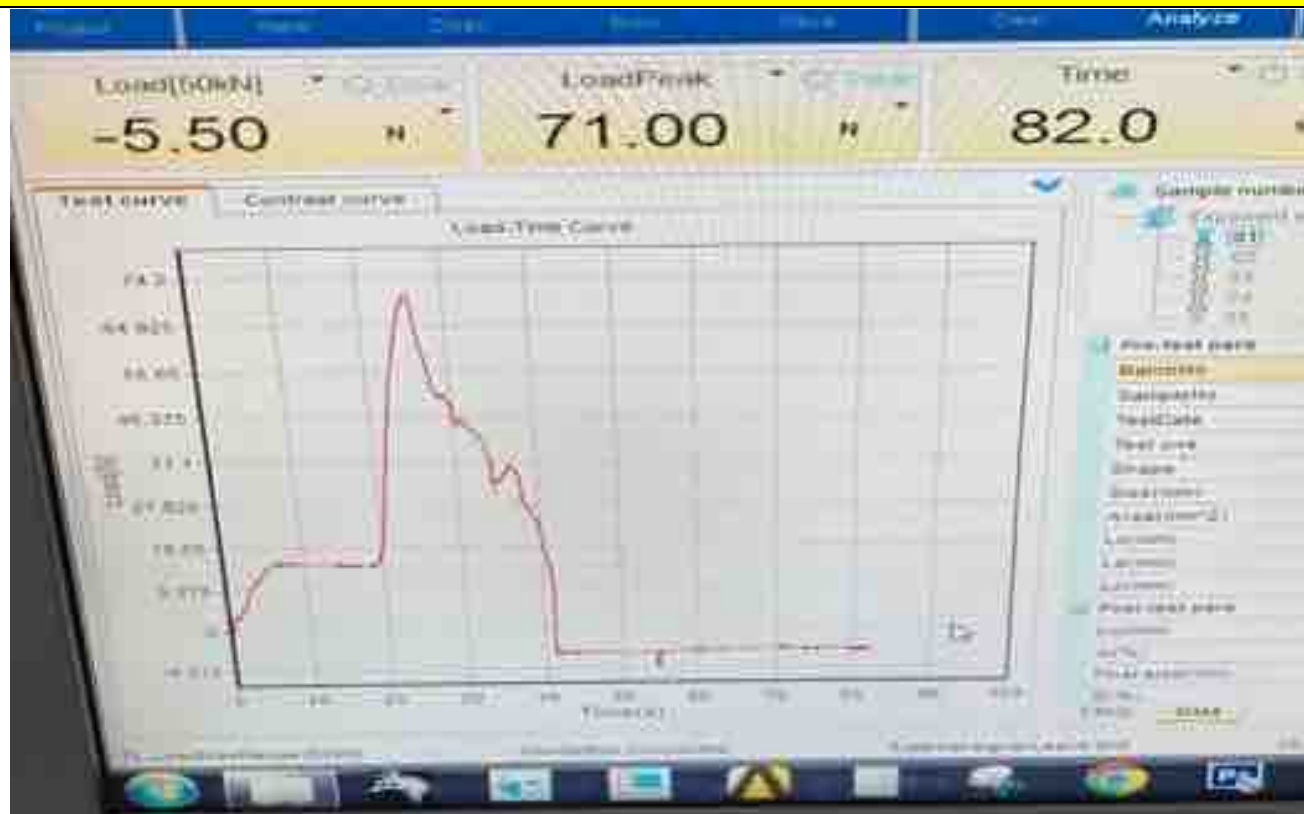


Test Graphs – Contd..

GUN Fire Vibration test



UTM Tensile test graph

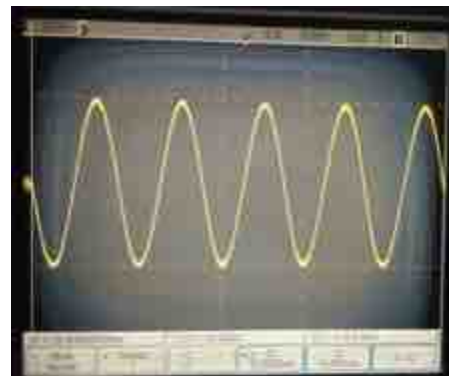


Accelerometer Calibration facility



- NIST traceable calibration of ICP, Charge accelerometers
- Single and Multi-axis Calibration
- Back-to-back calibration as per latest ISO 16063-21
- Both Amplitude and Phase plots
- Quick Turnaround time
- Calibration certificates as per latest ISO 17025 Norms
- In-house and Onsite Calibration Facilities at Nominal cost
- Automatic sensitivity suggestion after calibration
- Customised frequency and amplitude profile for calibration
- Calibration up to 14000 Hz is possible

Shaker / Vibration machine Calibration



- Shaker calibration will be done using comparative method with master instrument
- Frequency, amplitude and displacement can be calibrated
- Each channel of vibration controller can be calibrated independently
- Both on armature head and HST can be calibrated independently
- In-house and Onsite Calibration Facilities at Nominal cost
- Customised frequency and amplitude profile for calibration
- Calibration up to 14000 Hz and 100g is possible

Testing Lab – ISO/IEC 17025:2017 NABL Certificate

		National Accreditation Board for Testing and Calibration Laboratories
CERTIFICATE OF ACCREDITATION		
IMPACTCALIBRATION AND TESTING SOLUTIONS PRIVATE LIMITED		
has been assessed and accredited in accordance with the standard		
ISO/IEC 17025:2017		
"General Requirements for the Competence of Testing & Calibration Laboratories"		
for its facilities at		
B5, 2ND CROSS, ITI INDUSTRIAL ESTATE, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA		
in the field of		
TESTING		
Certificate Number:	TC-10286	
Issue Date:	31/01/2024	Valid Until: 30/01/2026
This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL. (To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)		
Name of Legal Entity: IMPACTCALIBRATION AND TESTING SOLUTIONS PRIVATE LIMITED		
Signed for and on behalf of NABL		
	 N. Venkateswaran Chief Executive Officer	

Calibration Lab – ISO/IEC 17025:2017 NABL Certificate



**National Accreditation Board for
Testing and Calibration Laboratories**

CERTIFICATE OF ACCREDITATION

IMPACTCALIBRATION AND TESTING SOLUTIONS PRIVATE LIMITED

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

**"General Requirements for the Competence of Testing &
Calibration Laboratories"**

for its facilities at

B5, 2ND CROSS, ITI INDUSTRIAL ESTATE, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

in the field of

CALIBRATION

Certificate Number: CC-3345

Issue Date: 08/03/2024

Valid Until: 05/01/2026

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.
(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Entity: **IMPACTCALIBRATION AND TESTING SOLUTIONS PRIVATE LIMITED**

Signed for and on behalf of NABL



**N. Venkateswaran
Chief Executive Officer**

DGAQA Certificate – Aerospace and Defence



GOVERNMENT OF INDIA, MINISTRY OF DEFENCE

TEST HOUSE APPROVAL

This is to certify that **M/s Impact Test and Calibration Lab, B5, 2nd Cross, Devasandra, Mahadevapura, Bangalore - 560048** is accorded Approval of Testing Laboratory for the following Disciplines / Tests:

Sl. No.	Discipline	Test Parameters with range and accuracy limits
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Following Tests as per NABL Approved Range & Accuracy Limits:

- (a) Electrical – ESD Test, Immunity to ESD Test & Environmental Tests.
- (b) Chemical – Paints & Surface Coating Tests.

2. Approval Certificate No.: **1408/LAB/DGAQA/TECH-COORD/18 DATED 30 Aug 2023**

3. This certificate is valid upto: **31 Aug 2026**

4. Conditions of Approval/ limitations as indicated overleaf.

Place: New Delhi

Date: **30 Aug 2023**


(Jitendra Kumar)

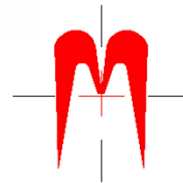
Additional Director General, AQA
Approving Authority on behalf of
DGAQA Ministry of Defence

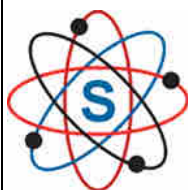
(www.dgaeroqa.gov.in/ e-mail <dirtc.dgaqa@gov.in>)

List of our customers









	IMPACTCALIBRATION AND TESTING SOLUTIONS P LTD Sy No. 265/1, Next to Bangalore International Academy School, Soukya Road, Samethanahalli, Anugondanahalli, Bangalore 560067. – M – 9741783908, E – Kailasnath.rao@impactlab.co.in	
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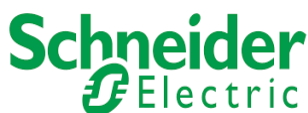
LEGION ENERGY



SKC Environ Lab Pvt Ltd



Mahindra
ELECTRIC



NUMEROS
MOTORS



ISO 9001:2015 Certificate

	
Green Ikon Management Systems Pvt. Ltd. <i>This is to certify that the Quality Management System of</i>	
IMPACT CALIBRATION AND TESTING SOLUTIONS PRIVATE LIMITED B5, 2nd Cross Street, ITI Industrial Estate, Mahadevapura, Bengaluru, Karnataka-560 048, India <i>has been assessed and conforms to the requirements of Documentation of:</i>	
ISO 9001:2015 <i>Applicable to:</i>	
Providing Product Quality, Reliability, Performance Testing and Calibration Services to all Industries Certificate Number : 10099-GQMS-00199	
Original Certification Date : 03/04/2021 Revised Certification Date : 01/04/2024 Certificate Expiration Date : 02/04/2027	1st Surveillance Due Before : 28/03/2025 Done on: Not Yet Due 2nd Surveillance Due Before : 27/03/2026 Done on: Not Yet Due As per the rules of ISO it is mandatory to get both 1st & 2nd surveillance audits done at least 30 days before the due date. If surveillance audit is not done till due date of both "1st & 2nd SURVEILLANCE DUE DATES" then this certificate shall become invalid on the due date. The client should send a proposed date for each surveillance audit at least 15 days before the due date at the email given below.
	
	<i>John Mathus</i> Certification Manager
Green Ikon Management Systems Pvt. Ltd. Website : www.greenikonmspl.org Email : greenikonmspliso@gmail.com, contact@greenikonmspl.org	
The validity of this certificate is contingent upon the condition that the client has understood & agreed and shall abide by contract agreement, certification agreement, Master agreement for certification services and logo rules as given on our website www.greenikonmspl.org. It applies only to the documentation maintained by the client and it does not substitute the design or product testing or examination procedures, what so ever. The certificate remains valid until the manufacturing conditions and the quality systems are not changed. This certificate validity is subject to positive results of surveillance audit. The client is requested to check the above certificate details at our above mentioned website and also on www.globalaccreditationboard.org under the heading of Register & sub heading of certified organization by entering their certificate number and inform us in case of any discrepancy at our above email id.	

Contact us

**Thanks for your patience in understanding our
capabilities**

Please contact us for any of your Testing enquiries /
additional information



V.KAILASNATH RAO
Managing Director
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"Testing Today For A Better Tomorrow"