



ELECTRO METER CORPORATION

NABL ACCREDITED CALIBRATION LABORATORY

**A one stop
solution for calibration**



- ❖ **ISO/IEC 17025:2017 ACCREDITED CALIBRATION LABORATORY**
- ❖ **CALIBRATION OF BIO-MEDICAL ITEMS FOR ISQUA/NABH ACCREDITATION**
- ❖ **CONSULTANCY FOR LAB SETUP AS PER ISO/IEC 17025:2017**
 - ❖ **TESTING OF PROTECTIVE RELAYS**
 - ❖ **TESTING OF PSV**

AN ISO 9001:2015 CERTIFIED ORGANISATION

Awards & Certificate



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About Us:

Electro Meter Corporation (EMC) was formed in 1976 in Kolkata, India with a vision for outstanding excellence in the field of measurement. We received the accreditation of ISO / IEC 17025 in 2017, just after NABL (National Accreditation Board for Testing & Calibration Laboratories) signed the MRA (Mutual Recognition Arrangement) to the ILAC (International Laboratory Accreditation Cooperation).

EMC provides an end to end technology solution to its customers:

With an experienced and skilled set of technical expertise, EMC provides solution at the footsteps of the customer.

We have an excellent on-site facility guided by at-lab services. Services are offered at your place so as to relieve you from the hassle of carrying your bulky devices.

A short turn down time gives the customer the best possible solution. From Electrical Devices to Mechanical and from Thermal to Bio-Medical, EMC has its on-site facilities along with accreditation.

NABL: Pioneers in the Industry, Autocal Solutions meets the rigorous qualifications for National Accreditation Board for Testing and Calibration laboratories (NABL) accreditations to ISO / IEC 17025:2017. Our current NABL scope can be viewed at www.nabl-india.org.

EMC is operational from Kolkata, Delhi, Orissa and Gujarat in India & also in Bangladesh.

EMC believes in Total Quality Management. Thus the feedback from existing/new customers is used for necessary preventive and corrective actions where applicable including technology up gradation from time to time and increasing/improving the scope of accreditation. We always try to anticipate and accommodate customer need in measurement.

EMC's strengths have been its staff, a knowledgeable expert and an innovative Management.

Salient Features:

- ❖ Fast turnaround
- ❖ Pick Up & delivery
- ❖ Onsite Calibration
- ❖ Training on calibration & Testing
- ❖ Tatkal facility on booking of a slot in advance
- ❖ Consultancy for new lab set up and accreditation
- ❖ NABL/NABH consultancy and Internal Audit



Marketing Department



Quality Department



Customer Service Cell



Report Department

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**ELECTRO-TECHNICAL
& RELAY LABORATORY**



Electro-Technical & Relay Laboratories:

ELECTRO-TECHNICAL (SOURCE & MEASURE MODE – At Lab & At Site)

SL. NO.	INSTRUMENTS / PARAMETERS THAT CAN BE CALIBRATED	RANGE / REMARKS
1.	D C Voltage - (Source Mode) (Measure Mode)	100 μ V to 1000 V 100 μ V to 1000 V
2.	D C Current (Source & Measure Mode)	1 μ A to 1000 A
3.	Resistance (2 Wire / 4 wire) (Source Mode) (Measure Mode)	M Ω to 1 T Ω M Ω to 1 G Ω
4.	A C Voltage – (Source Mode) (Source Mode) (Measure Mode) (Measure Mode)	50 to 10 kHz / 1 mV to 1000 10 kHz to 20 kHz / 1 mV to 300 V 50 to 10 kHz / 1 mV to 1000 V 20 kHz / 1 mV to 300 V
5.	Frequency – (Source Mode) (Measure Mode)	0.5 Hz to 600 MHz 1 Hz to 10 MHz
6.	A C Current – (Source Mode) (Source Mode) (Measure Mode) (Measure Mode) (Measure Mode)	50 Hz to 10 kHz / 33 μ A to 20 A 50 Hz / 20 A to 1000 A 50 Hz to 10 kHz / 33 μ A to 1 A 50 Hz to 5 kHz / 1 A to 20 A 50 Hz to 5 kHz / 1 A to 20 A
7.	Phase Angle (Lead / Lag) – (Source & Measure Mode)	0 ° to 90 °
8.	Time – (Source Mode)	1 s to 9900 s
9.	A C Power (1 Phase, 50 Hz) – (Source Mode)	Volt: 0.1 V to 600 V / Current: 0.03 A to 20 A / 0.2 pf to 1 pf Volt: 50 V to 600 V / Current: 20 A to 1000 A / 0.2 pf to 1 pf
10.	A C Power (3 Phase, 50 Hz) – (Measure Mode)	3 x 240 V & 110 V 3 x 1 A, 5 A, 30 A 0.2 pf to 1 pf
11.	Inductance – (Source Mode) (Measure Mode)	10 μ H to 10 H @ 1 kHz 100 μ H to 1 H @ 100 Hz, 1 kHz
12.	Capacitance – (Source Mode) (Measure Mode)	100 pF to 90 μ F @ 1 kHz 100 pF to 1000 μ F @ 100 Hz, 1 kHz
13.	Oscilloscope	1 mV to 100 V / 2 ns to to 5 s / <= 600 MHz
14.	Temperature Indicator/Controller/ Recorder/Transmitter – RTD, K, J, E, T, N, R, S, B – (Source & Measure)	-200 °C to 1800 °C
15.	Micro Ohm Meter/Contact Resistance Meter/Winding Resistance Meter – (Source Mode)	50 $\mu\Omega$ to 20 k Ω / 7 mA to 200 A
16.	Power Factor (Lead/Lag)	0.2 pf to 1 pf
17.	A C High Voltage – (Source Mode) D C High Voltage	1kV to 25 kV / 50 Hz 1kV to 50 kV
18.	A C High Voltage – (Measure Mode) D C High Voltage	1kV to 80 kV / 50 Hz 1kV to 50 kV
19.	A C Energy – 1 phase @ 50 Hz (Measure Mode)	240 V / 1 A, 5 A, 30 A (0.5 pf to UPF)
20.	A C Energy – 3 phase @ 50 Hz (Measure Mode)	240 V / 1A, 5 A, 30 A (0.5 pf to UPF) 110 V / 5A (0.5 pf to UPF)



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**ELECTRO-TECHNICAL
& RELAY LABORATORY**



Electro-Technical & Relay Laboratories:

Standard Instrument used in Electro-Technical Laboratory:

- ❖ Multifunction Calibrator, Make: Fluke, Model: 5520A
- ❖ Multifunction Calibrator, Make: Fluke, Model: 5080A
- ❖ Reference Multimeter (8 ½ Digit) , Make: Fluke, Model – 8508A
- ❖ Precision Digital Multimeter (7 ½ Digit), Make: Time Electronics, Model: TE 5075
- ❖ Programmable Electronic Timer, Make: DCES, Model: D1014
- ❖ Frequency Calibrator, Make D.C.E.S, Model No. D1019
- ❖ Phase Angle Calibrator, Make : D.C.E.S, Model No: D-1021
- ❖ AC/DC Current Probe , Make: GOSSEN METRAWATT
- ❖ High Voltage Divider with kV Meter, Make: Udeyraj, Model: VD-100
- ❖ High Voltage Probe, Make: Fluke, Model: 80K-40
- ❖ Accucheck LT+, Make: Secure Meters Ltd.
- ❖ Accucheck HT+, Make: Secure Meters Ltd.
- ❖ Digital LCR Meter, Make: Aplab, Model: MT4080A
- ❖ Digital Megger, Make: AVO International, Model No: BMM 2000
- ❖ Digital Time Calibrator, Make : DCES(P)L, Model No.: D1018
- ❖ Digital Power Meter, Make: Yokogawa, Model No. 760401
- ❖ Lux Meter, Make: Metravi, Model No. 1333
- ❖ Sound Level Calibrator, Make: Lutron, Model No. SC-942
- ❖ Digital Tachometer Make: Electronic Automation, Model DT-2001-B
- ❖ High Stability Decade Megohm Box, Make: Vaiseshika, Model No. 8400
- ❖ High Resistance Decade Box, Make: Tinsley, Model: 4721
- ❖ High Precision Decade Resistance Box, Make: Vaiseshika, Model: 7400
- ❖ Decade Inductors, Make Omega, Model No: DL-120P
- ❖ Decade Inductance Box, Make: Zeal, Model No: ZMDIB
- ❖ Decade Capacitance Box, Make: Time Electronics, Model No: 1071
- ❖ Digital Earth Resistance Tester, Make: Kusam-Meco, Model: KM-1520
- ❖ Micro ohm Calibrator (Ductor Cal), Make: Time Electronics, Model: 5070
- ❖ Three Phase Power Meter Field Calibrator, Make : HPU, Model : HPU-3030B



TESTING OF PROTECTION RELAYS:

EMC is actively involved in the testing of protection relays through direct orders and also through tender process.

We test protection relays (NUMERICAL AND ELECTRO MECHANICAL) of the under mentioned categories:

- ❖ Over Current
- ❖ Earth Fault
- ❖ Over Voltage
- ❖ Under Voltage
- ❖ Frequency based
- ❖ Power Factor based
- ❖ Fuse protection
- ❖ Auxiliary
- ❖ Time based
- ❖ Motor Protection
- ❖ Transformer Protection
- ❖ Differential and many more of single phase, three phase and poly-phase variety.

Our universal Relay Test Kit from ISA (Italy) enables us to calibrate relays of all famous brands like:

- ❖ ENGLISH ELECTRIC
- ❖ SHNEIDER
- ❖ ALSTHOM
- ❖ AREVA
- ❖ MICOM
- ❖ MOTPRO
- ❖ L&T
- ❖ SIEMENS and many more.



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THERMAL LABORATORY



Thermal & Humidity Laboratory:

THERMAL & HUMIDITY {At Lab & At Site (Except Glass Thermometer, Humidity Sensor)}

SL. NO.	INSTRUMENTS / PARAMETERS THAT CAN BE CALIBRATED	RANGE / REMARKS
1.	RTD Sensor & Thermocouple with / without indicator / recorder / Dial Thermometer / Thermostat	.- 80°C to 1500°C
2.	Glass Thermometer	.- 80°C to 500°C
3.	I R Thermometer, Laser Gun, Pyrometer, Non Contact type temperature indicator / controller / recorder	500°C to 1500°C
4.	Humidity Sensor with / without indicator, Hygrometer	15 % RH to 95 % RH
5.	Humidity Chamber	20 % RH to 95 % RH
6.	Temperature Calibration of Thermal Chamber (Deep Freezer, refrigerator, Incubator, BOD, Autoclave, Oven, Furnace, Temp Bath etc)	.- 80°C to 1200°C

Standard Instrument used in Thermal & Humidity Laboratory:

- ❖ Data Acquisition Switch, Make: Agilent
- ❖ Standard Platinum Resistance Thermometer, Make: NPL
- ❖ RTD (PT-100) 4 WIRE SYSTEM, Make: Julabo
- ❖ RTD (PT-100) 4 WIRE SYSTEM, Make: Tempsens
- ❖ R Type Thermocouple with cold junction, Make: Isotech
- ❖ B Type Thermocouple, Make: Tempsens
- ❖ Digital Non Contact Pyrometer (IR Thermometer), Make: Metravi
- ❖ Digital Temperature & Humidity Meter with Sensor, Make: Rex
- ❖ Heating Bath Circulator, Make: Julabo, Model: TP-12
- ❖ Julabo Bath (-)80°C, Make: Julabo, Model: FP88
- ❖ Pegasus 1200 Site Bath, Make: Isotech
- ❖ Black Body Furnace, Make: Land Instrument,





**DIMENSION
LABORATORY**

Dimension Laboratory:

DIMENSION (AT LAB except Profile Projector & Surface Plate)

SL. NO.	INSTRUMENTS / PARAMETERS THAT CAN BE CALIBRATED	RANGE / REMARKS
1.	Plain Plug Gauge	3 to 200 mm
2.	Length Bar / Setting Rod	25 to 500 mm
3.	Thread Plug Gauge (Effective Dia)	M3 to M100 (3 mm to 100 mm)
4.	Angle / Bevel Protractor / Combination Set	0 to 180°
5.	Pitch Gauge	Pitch 0.4 to 6 mm/Angle 55 to 60°
6.	Steel Tape	Up to 200 m
7.	Standard Foils	0 mm to 2 mm
8.	Spirit Level / Frame type level	300 mm
9.	Pi Tape	Up to 3 m
10.	Cylindrical Measuring Pin	Up to 20 mm
11.	Snap Gauge	3 mm to 300 mm
12.	Plain Ring Gauge/Cylindrical Setting Master	5 mm to 200 mm
13.	Angle Gauge Block	0 to 90°
14.	Straight Edge	Upto 1000 mm
15.	Profile Projector & Microscope	X Axis – 0 mm to 150 mm Y Axis – 0 mm to 100 mm
	Linear	0 to 360°
	Angle	10x to 50x
	Magnification	Up to 45°
16.	Sine Bar (200 mm)	0 to 600 mm
17.	Caliper Checker/ Step Gauge	0.17 to 6.35 mm
18.	Thread Measuring Wire	Up to 10 mm
19.	Electronic Comparator	Up to 25 mm
20.	Dial Calibration Tester	Up to 25 mm
21.	Micrometer Head / Drum	Up to 25 mm
22.	Thread Ring Gauge	6 mm to 200 mm
23.	Taper Plain Ring Gauge (Angle)	Up to 5°
24.	Standard Wire Gauge	0.19 to 10 mm
25.	Engineer's Square/Set Square/L Square/Tri	100 x 150 mm
26.	Taper Plain Plug Gauge (Half Angle)	Up to 5°

Rest 20 items as per old scope: Other than above mentioned 26 items, rest 20 items are also there as per the old scope like-Gauge Block, Feeler Gauge, Radius Gauge, Scale, Test Sieve, Vernier/Dial /Digital Caliper, Height Gauge, Depth Gauge, External Micrometer, Internal Micrometer, Depth Micrometer, Plunger Type/Lever type Dial Indicator, Bore Gauge, Dial Thickness Gauge, Hegman Gauge, Coating Thickness Gauge, Pistol Caliper, Internal Caliper, Surface Plate.

Standard Instrument used in Dimension Laboratory:

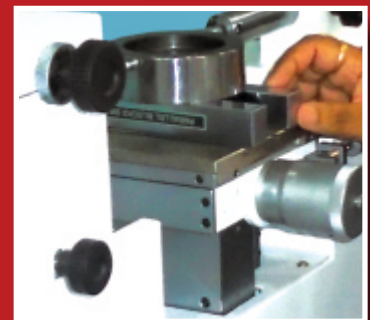
- ❖ Slip Gauge Set, 'K' Grade, Make: Aditya
- ❖ Slip Gauge Set, Grade '0', Make: Aditya
- ❖ Slip Gauge Set, Grade '1', Make: Aditya
- ❖ Long Slip Gauge Blocks (Steel), Make: Aditya (125 mm to 500 mm)
- ❖ Gauge Block Calibrator, Make: Mikronix, Model: GBC 931
- ❖ Digimatic Height Gauge, Make: Mitutoyo
- ❖ Profile Projector, Make: Metrology Equipment Pvt. Ltd., Model: DELTA FM 40
- ❖ Electronic Mini Level, Make: WYLER
- ❖ Sine Bar, Make: Precision Gauge & Fixture Pvt. Ltd.
- ❖ Bevel Protractor, Make: Mitutoyo
- ❖ Surface Plate, Make: Bagson
- ❖ Standard Thickness Foils, Make: A. A. Industries
- ❖ Ultrasonic Thickness Gauge, Make: Metravi, Model No. UTG-01
- ❖ A Set of Angle Gauges, Make: Mikronix
- ❖ Digital Linear Scale with Indicator, Make: Ditron, Model: DC 501 (for Scale) & DC 11 (for Indicator)
- ❖ Glass Scale, Make: Easson, Model: 48-3
- ❖ Electronic Probe with D.R.O. Probe, Make: Solartron
- ❖ Single Axis Measuring Machine, Make: Aditya, Model No. LAB MICROCAL 600

ACCELERATION & SPEED (AT LAB & AT SITE)

SL. NO.	INSTRUMENTS / PARAMETERS THAT CAN BE CALIBRATED	RANGE / REMARKS
1.	RPM (Non Contact)	6 rpm to 60000 rpm

Standard Instrument used in Acceleration & Speed Laboratory:

- ❖ Multifunction Calibrator, Make: Fluke, Model: 5520A



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**MASS, VOLUME &
DENSITY
LABORATORY**

Mass, Volume & Density Laboratories:

MASS {At Lab & At Site (Except Weight)}

SL. INSTRUMENTS / PARAMETERS NO. THAT CAN BE CALIBRATED	RANGE / REMARKS
1. Weights of 1mg to 200 g Weights Above 200 g to 2 kg Weights Above 2 kg to 20 kg	Calibration of E2 class and above Calibration of F2 class and above Calibration of M2 class and above
2. Micro Balance from 1 mg to 6 g, d>= 0.001 mg / 0.01 mg	Using E1 Class Weights, Class I
Balance from 6 g to 200 g, d>= 0.001 mg / 0.01 mg	Using E1 Class Weights, Class I
Balance from 200 g to 3 kg, d>= 0.001 g	Using E2 Class Weights, Class II
Balance from 3 kg to 20 kg, d>= 0.001 kg / 1 g	Using F1 Class Weights, Class III
Balance from 20 kg to 60 kg, d>= 0.001 kg / 1 g	Using F1 Class Weights, Class III
Balance from 60 kg to 100 kg, d>= 2 g	Using F1 Class Weights, Class III

Standard Instrument used in Mass Laboratory:

- ❖ Electronic Balance, Make: Mettler Toledo, Model: XP-6, XP-205 & JB-3100G
- ❖ Weight Box, Make: Mettler Toledo, Grade: E1
- ❖ Standard Weight, 500g, 1 kg, 2 kg, Grade: E2
- ❖ Standard Weight, 5 kg, 10 kg, 20 kg, Grade: F2



VOLUME (At Lab)

SL. INSTRUMENTS / PARAMETERS NO. THAT CAN BE CALIBRATED	RANGE / REMARKS
1. Piston Pipette (Auto Pipette / Micro Pipette)	1 µl to 10000 µl
2. Transfer Pipette (Graduated / Non Graduated)	0.1 ml to 100 ml
3. Glass Burette	1 ml to 100 ml
4. Measuring Cylinder / Volumetric Flask / Conical Flask / Beaker	1 ml to 2000 ml

Standard Instrument used in Volume Laboratory:

- ❖ Electronic Balance, Make: Mettler Toledo, Model: XP-6, XP-205 & JB-3100G
- ❖ Weight Box, Make: Mettler Toledo, Grade: E1
- ❖ Standard Weight, 500g, 1 kg, 2 kg, Grade: E2
- ❖ Standard Weight, 5 kg, 10 kg, 20 kg, Grade: F2



DENSITY (At Lab)

SL. INSTRUMENTS / PARAMETERS NO. THAT CAN BE CALIBRATED	RANGE / REMARKS
1. Density Hydrometers	0.6 to 1 g/ml
2. Specific Gravity Hydrometer	1 to 2 spgr

Standard Instrument used in Volume Laboratory:

- ❖ Density Hydrometer, Make: Leimco, Range: 0.6 to 0.65 g/cm³
- ❖ Density Hydrometer, Make: Leimco, Range: 0.65 to 0.7 g/cm³
- ❖ Density Hydrometer, Make: Leimco, Range: 0.7 to 0.75 g/cm³
- ❖ Density Hydrometer, Make: Leimco, Range: 0.75 to 0.8 g/cm³
- ❖ Density Hydrometer, Make: Leimco, Range: 0.8 to 0.85 g/cm³
- ❖ Density Hydrometer, Make: Leimco, Range: 0.85 to 0.9 g/cm³
- ❖ Density Hydrometer, Make: Leimco, Range: 0.9 to 0.95 g/cm³
- ❖ Density Hydrometer, Make: Leimco, Range: 0.95 to 1.0 g/cm³,
- ❖ Density Hydrometer, Make: Leimco, Range: 1.050 to 1.100 g/ml
- ❖ Density Hydrometer, Make: Leimco, Range: 1.000 to 1.200 spgr
- ❖ Density Hydrometer, Make: Leimco, Range: 1.200 to 1.400 spgr
- ❖ Density Hydrometer, Make: Leimco, Range: 1.400 to 1.600 spgr
- ❖ Density Hydrometer, Make: Leimco, Range: 1.600 to 1.800 spgr
- ❖ Density Hydrometer, Make: Leimco, Range: 1.800 to 2.000 spgr



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KINEMATIC VISCOSITY BATH
ASTM D - 445/446
LAB INSTRUMENTS COMPANY
CHANDANNAGAR, HOOGHLY
WEST BENGAL, INDIA
PH - 09830851895
S. No - 196901



VISCOSITY LABORATORY

Viscosity Laboratory:

VISCOSITY (At Lab)

SL. NO.	INSTRUMENTS / PARAMETERS THAT CAN BE CALIBRATED	RANGE / REMARKS
1.	Capillary Viscometer (Forward Flow & Reverse Flow)	0.002 mm ² /s ² to 20 mm ² /s ²
2.	Ford Cup	B1 to B5
3.	Viscosity of Oil	1 cst to 10000 cst

Standard Instrument used in Viscosity Laboratory:

- ❖ Standard Viscosity oil, Make: Cannon, A2LA Certified, Viscosity Standard: N140
- ❖ Standard Viscosity oil, Make: Cannon, A2LA Certified, Viscosity Standard: S30000
- ❖ Standard Viscosity oil, Make: Cannon, A2LA Certified, Viscosity Standard: S6
- ❖ Standard Viscosity oil, Make: Cannon, A2LA Certified, Viscosity Standard: S20
- ❖ Standard Viscosity oil, Make: Cannon, A2LA Certified, Viscosity Standard: S200
- ❖ Standard Viscosity oil, Make: Cannon, A2LA Certified, Viscosity Standard: N2
- ❖ Standard Viscosity oil, Make: Cannon, A2LA Certified, Viscosity Standard: S3
- ❖ Standard Viscosity oil, Make: Cannon, A2LA Certified, Viscosity Standard: S600
- ❖ Standard Viscosity oil, Make: Cannon, A2LA Certified, Viscosity Standard: S8000
- ❖ Standard Viscosity oil, Make: Cannon, A2LA Certified, Viscosity Standard: S60
- ❖ Standard Viscosity oil, Make: Cannon, A2LA Certified, Viscosity Standard: S2000



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QUALITY POLICY

- Management is committed to maintain good professional practice and provide a high standard of calibration services through the use of customers.
- CMC is specially committed to supply customers including being members of the Calibration service.
- The purpose of the document management system is to ensure that all concerned in the laboratory including marketing, calibration services, operations and maintenance are discharge their functions in a manner so that the requirements of ISO/IEC 17025:2005 are fully met.
- The quality policy requires that all personnel involved in calibration and supporting activity shall adhere to compliance with the Quality Manual, quality system and Technical Procedures.
- Management of CMC is committed to comply with ISO/IEC 17025:2005 standard and continual improvement.
- Management is committed to provide necessary resources.

PRESSURE LABORATORY



Pressure Laboratory:

PRESSURE {AT LAB & AT SITE (Except DWT)}

SL. NO. THAT CAN BE CALIBRATED	INSTRUMENTS / PARAMETERS	RANGE / REMARKS
1.	Hydraulic Pressure – Dial/Digital Pressure Gauge, Calibrators, Transmitters, Switch	0 to 1000 bar
2.	Pneumatic Pressure – Dial/Digital Pressure Gauge, Calibrators, Transmitters, Switch, Mercury Manometer, Magnehellic Gauges	0 to 1000 mmHg 0 to 750 mmWc 0 to 20 bar
3.	Pneumatic Negative Pressure (Vacuum) – Dial/Digital Vacuum Gauge, Calibrators, Transmitters, Switch, Mercury Manometer	-675 mmHg to 0 mmHg
4.	Absolute Pressure – Dial/Digital Pressure Gauge, Calibrators, Transmitters, Switch, Aneroid Barometer	0 to 1.5 bar abs
5.	Hydraulic Dead Weight Tester	1 bar to 1000 bar

Standard Instrument used in Pressure Laboratory:

- ❖ Hydraulic Dead Weight Tester, Make: Pressurements, Model No: M 2800-1-F
- ❖ Digital Manometer (Vital Signs Simulator), Make: Fluke, Model No: proSim 8
- ❖ Digital Manometer, Make: Keller, Model No: LEX 1
- ❖ Digital Manometer, Make: Keller, Model No: Le0 2
- ❖ Digital Pressure Transducer, Make: Druck, Model: PDCR2200-1939 (for Transducer) & DPI 610 (for Indicator) (Range: 700 bar & 2 bar Transducer)
- ❖ Digital Pressure Calibrator, Make: Druck, Model: DPI 610 (Range: 0 to 20 bar)
- ❖ Mercury Manometer, Range: 0 to 1000 mmHg
- ❖ Digital Pressure Gauge (Absolute Pressure), Model. YDPIR0101

ACOUSTICS (At Lab & At Site)

SL. NO. THAT CAN BE CALIBRATED	INSTRUMENTS / PARAMETERS	RANGE / REMARKS
1.	Sound	94 dB, 114 dB @1 kHz

Standard Instrument used in Acoustics Laboratory:

- ❖ Sound Level Calibrator, Make: Lutron, Model No. SC-942





**TORQUE WRENCH
CALIBRATION SYSTEM**
MODEL - TWC - SM - 2000
CAP - 0 - 3000 NM
SERIAL NO. - 14641



**FORCE & PSV
LABORATORY**



Force, Torque & PSV Laboratories:

FORCE (At Site)

SL. INSTRUMENTS / PARAMETERS NO. THAT CAN BE CALIBRATED	RANGE / REMARKS
1. UTM & TTM (Tension Only)	100 N to 50 kN



Standard Instrument used in Force Laboratory:

- ❖ Load Cell with Indicator (50 kg)
- ❖ Load Cell with Indicator (200 kg)
- ❖ Load Cell with Indicator (500 kg)
- ❖ Load Cell with Indicator (1 Tonne)
- ❖ Load Cell with Indicator (10 Tonne)
- ❖ Load Cell with Indicator (20 Tonne)

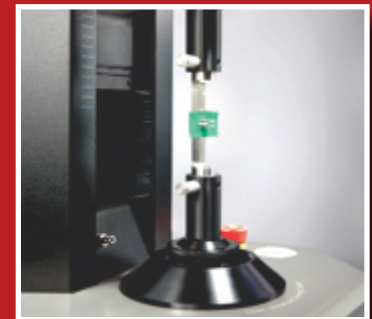
TORQUE (At Lab)

SL. INSTRUMENTS / PARAMETERS NO. THAT CAN BE CALIBRATED	RANGE / REMARKS
1. Torque Wrench (Type I / Type II)	3 Nm to 3000 Nm



Standard Instrument used in Torque Laboratory:

- ❖ Torque Sensor with Indicator, Make: Star Embedded Systems, Model: LED-LD1 (30 Nm)
- ❖ Torque Sensor with Indicator, Make: Star Embedded Systems, Model: LED-LD1 (300 Nm)
- ❖ Torque Sensor with Indicator, Make: Star Embedded Systems, Model: LED-LD1 (3000 Nm)





**BIO-MEDICAL
LABORATORY**



Biomedical Laboratory:

BIOMEDICAL CALIBRATION FACILITY:

SL. NO.	INSTRUMENTS / PARAMETERS THAT CAN BE CALIBRATED	RANGE / REMARKS
1.	Patient Monitor	Electrical Safety, NIBP, Respiration, ECG, IBP, SPO2
2.	Syringe Pump / Infusion Pump	Electrical Safety, Flow rate, Volume Measurement, Pressure Measurement
3.	Autoclave	Electrical Safety, Temperature, Pressure
4.	Defibrillator	Electrical Safety, Energy Measurement, Charge Time, ECG Simulation, Patient Test Load (Resistance), External Pacer Test
5.	Suction Pump	Electrical Safety, Vacuum
6.	Flow Meter with Humidifier	Electrical Safety, Flow Test, Temperature Test
7.	BP Apparatus (Sphygmomanometer)	Pressure
8.	ECG Unit	Electrical Safety, ECG Simulation
9.	Transilluminator Light Source	Electrical Safety, Illumination
10.	Ventilator	Electrical Safety, Flow, Volume, Vacuum, Pressure, Oxygen-concentration, Time
11.	Nebulizer	Electrical Safety, Flow
12.	Radiant Warmer	Electrical Safety, Flow, Sound, Humidity, Temperature
13.	Semi Auto Analyzer	Electrical Safety
14.	Electrosurgical Unit (Diathermy)	Electrical Safety
15.	Pulse Oximeter	Electrical Safety
16.	Weighing Scales (Baby)	Weight Test
17.	EEG	Electrical Safety
18.	Hematology Analyzer	Electrical Safety
19.	Infant Incubator	Electrical Safety, Flow, Sound, Humidity, Temperature
20.	External Pace Maker	Pulse Rate, Pulse Width, Energy
21.	Fetal Monitor	Electrical Safety, Heart Rate, Pressure
22.	Anesthesia Machine	Electrical Safety, Flow, Oxygen Concentration
23.	Dialysis Machine	Electrical Safety, Temperature, Flow, Time, Pressure
24.	Electronic Tourniquet	Electrical Safety, Pressure, Time Interval
25.	Boyles Apparatus	Pressure, Flow
26.	OT Table / Mechanical Bed	Electrical Safety
27.	OT Light	Illumination
28.	CPM Machine	Electrical Safety, Angle
29.	Therapeutic Simulator	Electrical Safety, Wave form
30.	C Pap	Electrical Safety, Flow
31.	Bi Pap	Electrical Safety, Flow, Humidity



Standard Instrument used in Biomedical Laboratory:

- ❖ Electrical Safety Analyzer, Make: Fluke, Model: ESA 615
- ❖ Vital Sign Simulator, Make: Fluke, Model: ProSim - 8
- ❖ VT Plus HF Gas Flow Analyzer, Make: Fluke, Model: VT Mobile
- ❖ Defibrillator/ Transcutaneous Pacer Analyzer, Make: Fluke, Model: Impulse 7000 DP
- ❖ Infusion Device Analyzer, Make: Fluke, Model: IDA 5
- ❖ Electro Surgery Analyzer, Make: Fluke, Model: RF 303
- ❖ Fetal Simulator
- ❖ Mechanical Fetal Heart

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