



BANSAL CALIBRATION AND TEST LAB. PVT. LTD.

NABL accredited laboratory vide certificate number TC-6455 & CC-2438



Testing

- Soil Testing
- Water Testing
- Chemical Testing (Metals & Alloys)
- Mechanical Testing
- Corrosion Testing
- Metallurgical Testing
- Non-Destructive Testing

Calibration

- Electro-technical
- Thermal
- Mechanical
 - Force and hardness
 - Dimension
 - Pressure
 - Flow
 - Mass, Volume & Density

**Testing &
Calibration Lab**

About Us

Established in 2010, Bansal Calibration and Test lab has consistently maintained its trajectory of continuous growth and excellence.

Our mission: Deliver precise, accurate and reliable Testing and Calibration services to our esteemed clients.

BCTL has inculcated a strong analytical capability to directly assist clients and support in-house Quality Assurance as well as Research Projects. We are a one stop solution for all your testing and calibration requirements. We are Accredited by NABL (Department of Science & Technology, Government of India) in multiple disciplines and constantly adding more every year for Testing & Calibration.



KEY CLIENTS



ADVANCE VALVES

AIR INDIA



**TPSC
INDIA**



TATA

WIKA

HONDA



SFC Solutions

**TITAGARH
RAIL SYSTEMS LIMITED**

Panasonic



....and many more

TESTING

METALLURGICAL TESTING



- Microscopic Examination
 - Carburization & Decarburization Depth
 - Failure Analysis & Report Writing
 - Ferrite by Point Count
 - Grain Size
 - Inclusion Rating
 - Microstructure
 - Nodularity, Nodule Count
 - Plating/Coating Thickness
- Macroscopic Examination
 - Macro-etch Test
 - Grain Flow
- Nitriding Depth

CORROSION TESTING



- AASS Test
- CASS Test
- CSC Test
- Cyclic Corrosion Test (CCT)
- Hydrogen Induced Cracking (HIC) Test
- Inter Granular Corrosion (IGC) Test (Practice A,B,C,E)
- Microscopic Test
- Pitting & Crevices Corrosion Test
- Salt Spray Test
- Sulphide Stress Cracking (SSC) Test
- Susceptibility to Intergranular Attack in Austenitic Stainless Steels
- Water/Humidity Resistance Test

NON-DESTRUCTIVE TESTING



- Coating Thickness Test by Eddy Current
- Ferrite Test by Ferrite Scope
- Gloss Test
- Liquid Penetrant Testing
- Magnetic Particle Inspection
- Positive Material Identification (PMI) Test
- Radiography
- Surface Roughness Test
- Ultrasonic Testing
- X-ray Inspection

CHEMICAL TESTING



- Adhesion Test (Cross Hatch test, Hammer test)
- Atom Absorption Spectrometer (AAS)
- Carburising Case Depth
- Decarburization Depth Measurement
- Dust Contamination Test
- ELV Test
- Ferroxyl Test
- Oil Contamination Test
- Spark Optical Emission Spectrometer (OES)
- Total Chloride Content
- Uniformity Test
- UV Spectrophotometer
- Wet analysis

MECHANICAL TESTING



- Proof load for fasteners
- Bend Test
- Hardness Test
 - Rockwell
 - Brinell
 - Vicker
- Impact Test
 - Charpy Impact (U-Notch, V-Notch) up to -196°C
 - Izod Impact
- Flattening Test
- Tensile Test
- Hot Tensile Test up to 900°C
- Weldment Testing
 - Transverse Tensile Test
 - Face/Root/Side bend
 - Fracture Test
 - Nick Break Test
- Dimension Test
- Breaking Load Test
- Shear Fracture % Test
- Load Test

COATING THICKNESS TESTING



- Anodic Coating Thickness Test
 - By Wet
 - Eddy Current
- Electroplated Coating test
- Mass of Zinc Coating Test
- Microscopic Test
- Mass of Tin Coating
- Phosphate Coating Test

WATER TESTING



- Drinking water test
- Industrial water test (STP & ETP)
- Portable water test
- Raw water test
- Sewage water test
- Water resistance test

ROHS COMPLIANCE TESTING



ROHS Elements

- Lead (Pb)
- Mercury (Hg)
- Cadmium (Cd)
- Hexavalent Chromium (Cr(VI))
- Polybrominated Biphenyls (PBB)
- Polybrominated Diphenyl Ethers (PBDE)
- Phthalates

SOIL TESTING



- Construction Soil
- Agricultural Soil

CALIBRATION

MECHANICAL



- Force
 - UTM (As per IS and ASTM standards)
 - CTM
 - TTM
 - Charpy Impact Machine
 - Izod Impact Machine
- Hardness
 - Rockwell
 - Brinell
 - Vickers
- Hardness Machines
 - Brinell Hardness Tester
 - Impact Test Machine
 - Micro Vicker Hardness
 - Portable Hardness Tester
 - Rockwell Hardness Tester
 - Vickers Hardness Tester
- Dimension
 - Angle Plate
 - Bench Centre
 - Bore Gauge
 - Box Angle Plate
 - CP/PCD Gauge
 - Cube Mould
 - Depth Gauge
 - Dimension Gauge
 - Durometer (Shore A & D)
 - Electronic Level
 - Feeler Gauge
 - Gauss meter/magnetometer
 - Go-No Go Gauge
 - Height Gauge
 - Hydrometer
 - Inclinometer
 - Jigs & Fixtures
 - Linear Height Gauge
 - Micrometer
 - Microscope
 - Penetrometers (Radiographic)
 - Pin Gauge
 - Plain/Thread/Taper Plug Gauge
 - Plain/Thread/Taper Ring Gauge
 - Profile Projector
 - Protractors (Bevel/Angle)
 - Radius Gauge
 - Receiver Gauge
 - Rulers
 - (Steel scale/Measuring Scale/Glass Scale)
 - Screw Pitch Gauge
 - Sine Bar
 - Slume Cone
 - Snap Gauge
 - Sound Level Meter
 - Special Gauge
 - Spirit Level
 - Straight Edge
 - Stroboscope
 - Surface Plate (Granite/Cast Iron)
 - Tachometer
 - Tape measurement Machine
 - Telescoping Gauge
 - Test Mandrel
 - Thickness Gauge
 - Thread wires
 - Vee Block
 - Vernier Caliper
 - Vision measurement machine
 - Width Gauge
- Pressure
 - Barometer
 - Compound Gauge
 - Dead weight Tester
 - Differential Pressure gauge
 - Manometer
 - Pressure Calibrator
 - Pressure gauge
 - Pressure recorder
 - Pressure Transducer/Switch
 - Vacuum Calibrator
 - Vacuum Gauge
 - Vacuum Transducer/Switch
- Flow
 - Air Flow meter
 - Mass Flow meter
- Mass, Volume & Density
 - Alchometer
 - Beaker
 - Burette
 - Flask
 - Hydrometer
 - Lactometer
 - Measuring Cylinder
 - Pipette
 - Weighing Balance
 - Weights

ELECTRO-TECHNICAL



- AC/DC Power Supply
- Ammeter
- Auto-transformer & Variac
- Capacitance box
- Clamp meter
- Contour probes
- Data logger
- DC Resistance
- DC Shunt
- Decade box
- Digital StopWatch
- Digital Timer
- Earth Resistance Tester
- Energy meter
- Frequency Counter
- Frequency Meter
- Function/Signal Generator
- Hand-held Calibrator
- HV/Hipot Tester
- Inductance box
- Insulation Tester/Meggar
- LCR meter
- Mili Ohm meter
- Multimeter (3½, 4½, 6½)
- Oscilloscope
- Power Analyzer
- Power factor
- Power/Watt meter
- Process Calibrator
- Relay Tester
- Resistance box
- Temperature Controller
- Temperature Recorder
- Thermocouple
- Tong meter
- Universal Calibrator
- Voltmeter

THERMAL



- BOD Incubator
- Deep Freezer
- Dew Point
- Environment Chamber
- Glass Thermometer
- Humidity Chamber
- Hybrid Recorder
- IR Thermometer
- Liquid Bath/Oil Bath/ Dry Bath
- Muffle Furnace
- Oven
- Pyrometer
- Refrigerator
- RTD Sensor
- Temperature Controller
- Temperature Indicator
- Temperature Recorder
- Temperature Scanner
- Thermal Mapping
- Thermocouple (All types)
- Thermo-hygrometer



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