

# Karnataka Material Testing & Research Centre

(ASSISTED BY GOVT. OF KARNATAKA & GOVT. OF INDIA)



## NABL Accredited Laboratory

(ISO/IEC 17025:2017)

Recognition by Indian Boiler Regulations (IBR) 1950

Mechanical | Chemical | Calibration | Building Material & NDT  
Testing | Component Final Inspection



Scan QR Code  
for Location

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*In pursuit of perfection through quality*

# MECHANICAL DIVISION



## Universal Testing Machine

**Model:** UTES 60, FIE, India

**Application:** To check the Mechanical properties, Ultimate Tensile Strength, Yield Strength, % Elongation, % Reduction, Bend Test, Shear Test, Compression Strength, Proof Load test in area.

**Capacity:** 60 Tonnes

Mechanical Testing of Steel and other metals.  
Extruded Bend Testing for all metals  
Hardness Testing of Rubbers, Polymers, etc.,  
Hardness Testing of Vickers, Brinell, Rockwell for Metals.

Pull Out Test

Plating / Paint Thickness Measurement

Rebound Hammer Test

Wrapping Test of Wires

Welder Qualification Test

Dynamic Balancing of Rotating Parts

Welding Quality Test

Case Depth Analysis

Impact Test by Charpy & Izod

Compression Testing for Metals, Springs, etc.,

Load Testing of Assemblies

Components Quality Certification

Galvanizing Coating Test

Micro Hardness Test

Microstructure Analysis

# CHEMICAL DIVISION



## SPECTROMAXx

**Model:** German 12871/06, Made in Germany

**Application:** Analysis of Chemical Composition of Ferrous & Non-Ferrous metals in percentage.

**Base Metal:** Fe, Ni, Cu & Al

Spectro Analysis:  
Spark Emission Metal  
Testing  
by SPECTROMAXx.

Base Metals: Iron, Nickel,  
Copper, Aluminium.

Internal Granular Corrosion  
Test (IGC) as per ASTM  
A262 Practice A,B,C,E,F

Water Testing

Salt Spray Testing: Silver  
Fog 450 Corrosion Test  
Chamber: Natural Salt  
Spray Testing of various  
powder coated, painted,  
galvanized components.  
Confirm to National &  
International Standards  
(ASTM B117 & IS Codes)

# CALIBRATION DIVISION



## Universal Length Measuring M/c

**Model:** ULM OPAL 600 | **Make:** Mahr Germany

**Capacity:** Least Count 0.001mm

**Application:** To Calibrate Plain Plug Gauge, Slip Gauge, External Thread Gauge, Outside/Inside Micrometers, Depth Micrometer, Taper Thread Gauges, Dial Indicators

## CALIBRATE ALL TYPES OF MECHANICAL MEASURING INSTRUMENTS LIKE

|                                               |                        |
|-----------------------------------------------|------------------------|
| Plain Plug Gauges                             | Inside Micrometers     |
| Vernier Calipers                              | Taper Thread Gauges    |
| Snap Gauges                                   | Dial Indicators        |
| Internal Thread Gauges                        | Potable Pressure Gauge |
| Surface Table Calibration                     |                        |
| Measuring Tapes, Try Square                   |                        |
| Portable Surface Roughness Test -             |                        |
| Measures irregularities of work piece surface |                        |
| Outside Micrometers                           |                        |
| Plain Ring Gauges                             |                        |
| Slip Gauges                                   |                        |
| External Thread Gauges                        |                        |
| Taper Internal Thread Gauges                  |                        |
| Bore Gauges                                   |                        |
| Pressure Gauges                               |                        |
| Radius Gauges, Bevel Protractors, Filler      |                        |
| Gauges, Right Angle, V Block, Steel Scale     |                        |
| Pitch Gauge, Pistol Calipers                  |                        |

## Building Material Testing

Mechanical Testing of Structural Steel & TMT Bars.

Compression Testing of Cement Concrete Cubes, Bricks, Blocks & Pavers.

Water Absorption Test for Bricks

Sieve Grading of Aggregates / Metals, Sand, etc.,

SBC Testing

Cement Testing

Mix Design

Wet Mix Macadam, Murrum, Product Density, SDBC

Rebound Hammer Test

## Non Destructive Testing (NDT)

**NDT Test will be carried out in collaboration with M/s. SITAS – NDT Engineers Pvt. Ltd. (NABL Accredited Lab)**

Advanced NDT (PAUT, TOFD & LINAC)

Gamma Radiography (Using X-Ray, Cobalt60, Ir – 192 & Se-75)

Casting Upgradation

Ultrasonic Inspection & Thickness

Magnetic Particle & Dye Penetration

Hardness & PMI

Welder Qualification Certificate

Ultrasonic Thickness testing for Boiler, Chimney, Pipes, Plates, etc.,



## Component Final Inspection

All type of finished Component final inspection by CMM in collaboration with NABL Accredited Lab M/s. Mapana Metrology Pvt Ltd, Bengaluru

## Karnataka Material Testing & Research Centre

Pioneering Excellence in Material Testing, Calibration and Quality Assurance

**K**arnataka Material Testing & Research Centre (KMTRC) has been setup in the year 1993, Registered under Karnataka Societies Registration Act 1960, District Registrar, Dharwad with the financial assistance of Govt. Of India DCSSI New Delhi & Govt. Of Karnataka, Industry & Commerce Department, Bangalore.

North Karnataka Small Industrial Association (NKSSI), Hubli and Karnataka Chamber of Commerce and Industries (KCC& I), Hubli being the Chief Promoters, the Centre is providing quality services to Industries in and around North Karnataka, Belgaum, Karwar, Udupi, Shimoga, Bijapur, Raichur, Sirsi, Uttara Kannada and some parts of Maharashtra like Sangli, Pune, Miraj, Ichalkaranji, Kolhapur and Goa region since last 30 years. KMTRC is having state of the art new building with latest technology equipments installed under one roof having skilled experienced technicians.

KMTRC is a NABL Accreditation "National Accreditation Board for Testing & Calibration Laboratories (NABL) as per ISO IEC : 17025 : 2017 for Chemical, Mechanical Testing and Calibration of Mechanical measuring instruments. KMTRC is also recognised by Indian Boiler Regulations (IBR) as a Certified Laboratory.

This organization is extending its service for nearly 500 – 600 industries and 100 to 150 export oriented units, who are regularly making use of this laboratory for their quality management of their finished product, raw material, instrument calibration.

### Following Third Party Inspection Agencies are witnessing the samples tested in our Laboratory.

Llyods Registrar Pvt. Ltd., Goa.

Engineers India Ltd., Bengaluru.

Nuclear Power Corporation of India Ltd., Bengaluru.

RITES Inspection, Mumbai.

Mecon Inspector, Bengaluru.

Dept. Of Factories, Boilers, Industrial Safety & Health, Bengaluru.

Bureau of Veritas India Ltd., Bengaluru.

TUV NORD, Bengaluru.

Defense Inspection QA Wing, Bengaluru.

DNV India, Mumbai.

Our Esteemed Customers Indian Defence, Indian Navy, Atomic Kaiga Project, L&T etc., are also making use of our Laboratory and more over, our service is also supported by reputed industries such as • Tata Motor • Tata Marcopolo • Tata Hitachi • Sea bird Karwar • Jindal Corporation • NTPC • Microfinish Group of Companies • Fasteners and Allied Systems Pvt. Ltd. • Gujarat Ambuja Exports • Miven Machine Tools • Uni Abex Group of Companies • Karnataka Conveyors & System Pvt. Ltd. • Vijayalakshmi Group of Companies and many other major and small scale industries.

We welcome industries, academic institutions, researchers, and individuals to utilize the advanced facilities at Karnataka Material Testing & Research Centre (KMTRC). Our state-of-the-art laboratory is equipped to carry out a wide range of material testing and analysis services, adhering to national and international standards.