MSME-TESTING STATION
GOVERNMENT OF INDIA
MINISTRY OF MSME

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TESTING FACILITIES
(A) METALLURGY DIVISION

(1) MECHANICAL TESTING OF METALS AND ALLOYS :

• Tensile test IS : 1608
• Bend test IS : 1599
• Rebend test IS : 1786
• Testing of welded joints IS : ASME SEC. IX
• Hardness test : Vickers, Brinell and Rockwell IS : 1501, 1500
• Impact test IS : 1757, 1598
• Flattening and Drift test IS : 2328, 2335
• Breaking load test

(2) METALLOGRAPHY :

• Microscopic examination of ferrous & Non-ferrous metals & alloys IS : 7739
• Diagnostic study and failure analysis

(3) PRODUCT TESTING :

• Structural steel IS : 2026, IS : 2062
• M.S. welded flats/joints IS : 3600
• CTS/TMT bar IS : 1786
• Nut and bolt IS : 1367
• Wire rope IS : 2266
• Copper and copper alloys (tube) BS : 2871
• Barbed wire  IS : 1239 Pt-1 IS: 1161
• M.S. tube/conduit pipes IS : 9537 (P-1&2)

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**UNIVERSAL TESTING MACHINE**

MODEL : UTN-60
MAKE : FIE, INDIA
USES : TENSILE, COMPRESSION & BEND TESTING OF MATERIAL

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**EQUIPMENT INSTALLED IN METALLURGY DIVISION**

• Optional emission spectrometer, Spectromax, German make
• Universal testing machine : 600KN, FIE, India
• Tensile testing machine : 2.5 KN, Fine spavy associate, Miraj.
• Rockwell hardness tester : Fuel instruments, FEI MIRAJ, Maharashtra.
• Brinell – Cum – Vickers Hardness tester : GDR, (Heckert) Germany.
• Impact testing machine : ETS Interlaken technologies, Calcutta.
• Metallurgical microscope : Carl Zieess Zena, Germany.
• Platform type weighing machine : Jain weight & A&D, Japan make.

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**(B) CHEMICAL DIVISION**

Chemical Analysis of :

• Steel/Alloy steel IS : 228
• Cast Iron/Pig Iron
• Nonferrous Metals & Alloys : Copper IS : 12308
• Silver IS : 440
• Bleaching powder IS : 1065
• Sodium Hypochlorite IS : 11673
• Ferric Alum & Non ferric alum IS : 299 & IS : 260
• Wool felt IS : 1719
• Mass of Zinc coating IS : 6745
• Coating thickness IS : 6012
• pH value IS : 5741
• Conductivity Measurement for copper
Digital pH METER : SYSTRONICS, INDIA
METTLER ELECTRONIC BALANCE
(METTLER)

EQUIPMENT INSTALLED IN CHEMICAL DIVISION

- Electrolytic Analyser : Swiss, India
- Digital pH-meter : Systronics, India
- Electric Oven : Lab Hosp, India
- Electric Muffle Furnace : Kumar Brothers, India
- Mettler Electronic Balance, Metter, Germany
- Digital Coating thickness gauge, Pulsecho system
- Digital conductivity meter of Technofour make.
- Hot water bath 12 holes capacity scientific SICO.
- Scientific physical balance : Scientific sales, sysndicate.

(C) MECHANICAL DIVISION

MECHANICAL TESTING OF NON METALLIC ITEMS

- Cement concrete flooring tiles IS : 1237
- Common burnt clay building bricks IS : 1077
- Rubber (Tensile & shore hardness) IS : 3400
- Wool felt IS : 1719
- HDPE woven bags IS : 9755
- LDPE film IS : 2508
- Epoxy material
- Plastic material
- Concrete cubes
- Polymer pin & disc insulator

CALIBRATION OF INSTRUMENTS

- Vernier caliper : 300mm
- Outside micrometer : 100 mm
- Height guage : 300 mm
- Depth guage : 300 mm
- Dial guage : 25 mm
- Pressure guage : 1 to 750 kg/cm²
FOR CALIBRATION MEASURING INSTRUMENTS INSTALLED IN MECHANICAL DIVISION

- Slip guage set 87 pieces  
  Make : Mitutoyo  grade : I
- Micrometer checking slip guage set  
  Make : Mikronix. Grade : 0
- Caliper checker 300 mm  
  Make : Mikronix  
  Range : 300 mm
- Dial guage calibration tester  
  Make : KIPL, Pune  
  Range : 25 mm, LC : 1 Micron
- Dead weight pressure guage tester  
  Make : RAVIKA  
  Range : 1 to 750 kg/cm²

MSME-TESTING STATION BHOPAL

MSME-Testing Station, Bhopal (formerly known as field testing station) is working since 1983 under the Ministry of Micro Small and Medium Enterprises, Government of India, to cater the needs of Testing and Quality improvement of Industrial sector with preference to Micro, Small & Medium Enterprises in Madhya Pradesh. MSME-Testing Station, Bhopal is equipped with testing machinery and equipments conforming to high standards of accuracy.

OBJECTIVE :-

The objective of Testing Station, Bhopal is to provide testing facilities and consultancy to MSMEs with a thrust on quality improvement of raw material and finished products. The main objective is:

- To assist MSME in the State of M.P, in quality improvement by testing their raw materials, finished products and calibration of their instruments.
- To help in improving quality of products of MSME for participation in Govt. stores purchase programme.
- To provide testing facilities to MSME in order to produce goods conforming to Indian & other Standard specifications.
- To provide third party assurance to BHEL, RITES, Defence, CPWD, NTPC and other State & Central Govt. agencies etc.
RULES AND PROCEDURE TO AVAIL TESTING FACILITIES AT MSME-TS

- The samples on which testing are to be conducted by us to be delivered at our premises by the parties concerned.
- While submitting test samples the representatives of industries are required to specify their test requirements mentioning clause under standard specifications like IS, BSS, ASTM or as per firms own request.
- Testing of samples will start only after the job requisition has been signed & the party has paid testing charges in full.
- The Large-scale industries, Unregistered small units, Traders & other organization will be charged 25% extra over & above the rates charged for registered Micro, Small & Medium scale units.

OUR APPROACH

Our motto is to serve the customers on priority giving due consideration to their grievances, if any.

OUR POLICY

To achieve excellence in material analysis, product testing and calibration service through satisfaction of customer’s need by continual improvement in professional skill and commitment to time-bound services.

OUR CHARGE

Very nominal, which registered Micro & small scale units can easily afford. Charges are to be paid through DD in favour of “Pay and Accounts Officer (MSME), Mumbai”.