



<sup>®</sup>  
**FSSC Testing  
Laboratories**

**Consistent accuracy | Delivered on time**

## **National and International Accreditations and Approvals**



## **Excellent Water and Food Testing Services**





## About us

**Our story** began in the India, in 2011. Fssc Testing Lab now more commonly known as FSSC was formed by FSSC Testing Lab Pvt Ltd, to ensure that the India market place adopted the best practice of Testing Services.

Fast forward almost 10 years and today the leading independent provider of environmental simulation testing, inspection and certification services in the India FSSC serves a broad range of industries, Food & Agro-Products, Environmental Monitoring & Clean, Cosmetics & Drugs, Paper & Packaging Material, Water & Waste Water, Microbiology Testing, Building Materials, Soil Testing, Paint & Coating, Minerals & Ores, Coal/Coke/ Petroleum Product, Machine Condition Monitoring (MCM) including the Working with our FSSC clients and other organizations across the globe, FSSC are able to help customers deliver products the world can trust.

## OUR APPROACH

We aim to provide the best customer experience and to help you to never stop improving. That is our dedicated company belief. Our focus is on being proactive, using common sense and making our expertise available to you in a helpful way. We aim to be constructive rather than obstructive; fundamentally our relationship with you is not just an annual visit.

## WHAT MAKES US DIFFERENT

Every business can do better, consistently, continually and sustainably. That's what we believe at FSSC and it's what we're here to help you achieve. Our assessment, certification and training services enable businesses to implement change, improve Testing Services and build for future success. We are passionate about helping our clients to improve their products, processes and people so that they can deliver excellent customer satisfaction. Our approach is pragmatic and supportive whilst meeting the rigorous technical demands and integrity required for accredited Testing.

## WHY CHOOSE US?

- We'll find you the right Testing structure that suits your organization, which is flexible enough to remain relevant as your business diversifies and grows
- We ensure that all of our Technical Expert have the highest of knowledge not just in the specific standards but also within the industry that they audit
- We aim to provide continuity of Quality Manager where possible to ensure the consistency of your Testing programme
- We are a globally recognized brand
- We open doors for future business growth
- We link you to similar organizations or potential business partners across the globe
- We have strong elements of technical knowledge and believe in upholding integrity.



### Services We Provide

- Testing
- Calibration
- Projects & Consultancies
- Inspection
- Training



### Training Services

- NDT Level I/II Training
- Metallurgy for Non-Metallurgists in UT, MPI, RT, Visual
- Corrosion Awareness
- Polymer Awareness
- Instrument Training
- ICP, GC-MS, LCMS and HPLC

### Calibration Services

- Electro-Technical Calibration
- Thermal Calibration
- Mechanical (Pressure and Mass)
- Flow

### Inspection Services

- Supplier Assessment & Process Audit
- In-process Quality Inspection
- Third Party Inspection
- Textile Inspection
- NDT Inspection
- Radiation Monitoring
- Metal Scrap Inspection
- RoHS Certification
- Social Audit
- HACCP

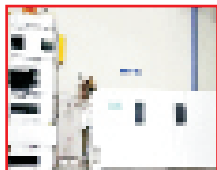
### Projects & Consultancies

- Fire Safety Testing
- Clean Room Designing and Validation
- Reverse Engineering Components
- Laboratory Setup Services
- Analytical Method Development & Validation
- Metallurgical Process Development
- Dossier Consultancy Services
- Specialized Services for Hospitals
- Facility Management Services



# TESTING SERVICES

## Testing of Food, Cosmetics, Environmental and Microbiological



### Food & Agro-Products

Pesticide Residues, Toxic Metals, Nutritional Analysis in Spices, Fruit Concentrates, Processed Foods, Confectioneries guar gum, Sugar, Agricultural Products as per PFA, etc Food & Agro-Products



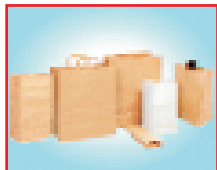
### Environmental Monitoring & Clean

Room Validation Ambient Air, Stack, Indoor, Noise, Soil, Solid Waste, EIA, EMP Studies. Airflow velocity, Airflow Volume, Air Cleanliness



### Cosmetics & Drugs

Raw Material & Formulations (as per IP, BP, USP), using GC-MS/MS, HPLC, IR, UV-VIS, TLC, ICP/AAS, MSDS, shelf life, packaging and migration studies,



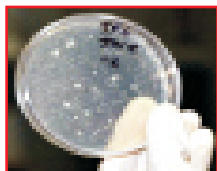
### Paper & Packaging Material

Craft Paper, Bond Paper, Corrugated Boxes- Crushing Test, Drop Test, bursting Strength, Vibration Test, Migration Test, Chloride Test etc.



### Water & Waste Water

Packaged Drinking, Natural Water, for Routine Tests and Residual Pesticides by GC-MASS/HPLC, Microbiological Analysis.



### Microbiology Testing

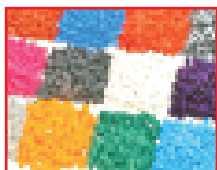
Microbial count, Preservative efficacy, Micro legionella, Total viable microbial count, Fungicidal test (AOAC), Germicidal spray test etc.

## MISCELLANEOUS PRODUCTS



### Wood & Furniture Testing

Wood confirmation, tests for Woodbased materials, furniture, packaging, constructions. Tests for preservatives, residues etc



### Polymers & Rubbers

Resins, Components for Polymer Identification, FTIR, TGA, DSC, Ageing, Ozone, XENON Tensile, Flexural, Banned Elements, Fire Retardant



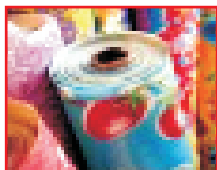
### Refractories and Insulation Materials

Insulation wool, blanket, Fire Bricks, silemenite, glass wool, glass for Chemical, Mechanical, Temperature Resistance, thermal conductivity Tests



### Electrical/Electronic Products

Cables, Appliances, Components for High Voltage, Resistance Dust, Salt Spray, Vibration test, Lightning Arresters Safety Compliance.



### Hardlines/Softlines Products

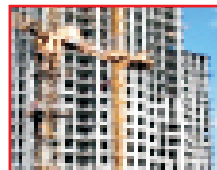
Toys, Metal Handicrafts, EPNS, Candle Stands, Candles, Incenses, Woven, Garments, Furnishing, Packing Tests, Vibration, Drop etc



### Miscellaneous Products

MSDS Reports, Adhesives, Fine Chemicals & Essential Oils, Dyes, Flavors, Fertilizers, Printing Inks.

## Testing of Building Materials, Soil and Petroleum Products



### Building Materials

Physical and chemical tests of concrete, Cement, Aggregate, Admixture, Granite, Design Mix, Soil, Bitumen, Building bricks and Marble.



### Soil Testing

CBR, Modified Proctor Test, Density, Liquid Limit, Plastic Limit, Moisture content and drying effects. particle size, organic matter Chemical tests like chloride sulphate etc. Building Materials



### Paint & Coating

FSSC performs various coatings and paint tests to assess their performance. Tests include resistance against



### Minerals & Ores

Ferro Alloys, Feldspar, Limestone, Ores by ICP/XRF/AAS Spectrometer for Chemical Analysis, Petrography etc



### Coal/Coke/ Petroleum Product

Calorific value, ultimate, Proximate analysis- Moisture, Volatile matter, Ash and Fixed Carbon, Insulating Oils, HSD, Engine Oil, Dissolved Gases, SOAP, Analysis, Mud Analysis, Oil Analysis.



### Machine Condition Monitoring (MCM)

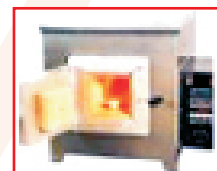
Ferrography (WDA), Wear Metals Analysis, Particle Count, Viscosity, TBN TAN, Foam Test, Nitration, Oxidation, Flash Point.

## CALIBRATION



### Mechanical Calibration

Dimensions, Length, Angle, Flatness, Mass, Volume, Pressure, Sound, Pressure Gauge, U.T.M., Load Devices Mechanical Calibration Dimensions, Length, Angle, Flatness, Mass, Volume, Pressure, Sound, Pressure Gauge, U.T.M., Load Devices



### Thermal Calibration

Temperature, Ovens, Glass Thermometers, Temperature Indicators with Sensor, Furnace



### Electro-Technical Calibration

AC/DC Current, AC/DC Voltage, Resistance, Inductance, Capacitance, Frequency, LCR Meters, Oscilloscope, Temperature Controllers



### Flow Calibration

Orifice Manometer, Tab Loading Orifice Rotameter/Flow meters, Mass Flow Controller, Dry Gas Meter, Velocity



**FSSC Testing Laboratories**

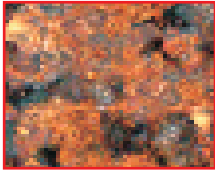
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# TESTING OF ENGINEERING MATERIALS



## Metals & Alloys

Ferrous, Non-Ferrous-Metals and Precious Metals, Steel, Tool, Stainless Steels, Nickel, Cobalt, Titanium, Lead, Brass, Platinum etc by OES/XRF/AAS/ ICP Spectrometers. Metals & Alloys Ferrous, Non-Ferrous



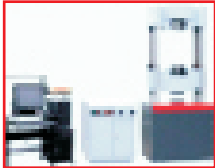
## Corrosion Testing

Salt Spray, CASS, cyclic salt spray Pitting, Crevice Corrosion, HIC/SSCC, IGCC test, Chloride Corrosion test, Ammonia Vapour test, Vibration, Heat Cycle, Thermal Shock, etc. Metals & Alloys



## Welded Structure

Welding performance and procedure qualification, Radiography, Transverse Tensile test, Root, face Bend test, macro examination etc as per ASME or API codes



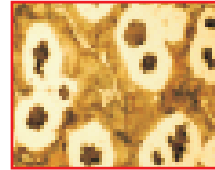
## Mechanical Testing

Tensile, Proof Load, Flexural, Hardness, Micro-Hardness, Charpy (ASTM) Impact Tests-Izod, Shear, Hot Tensile Tests, Welded Coupons etc



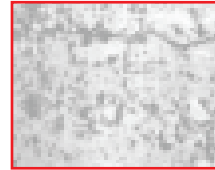
## NDT, Structural & Building Inspection

NDT inspection of vessels, Structures, Piping, Bridges, Old Fire Ravaged Buildings, Water Tanks, Load Test, Structure Stability, Corrosion Monitoring



## RLA Studies

Extensive thickness survey, MPI at critical weld joints, UT of critical weld joints, In-situ Metallography, Hardness survey etc



## Metallography

Grain Size, Effective Case Depth, Phase Studies, Inclusions In-situ Metallography, Image Analysis, and Failure Analysis.



## Failure Analysis

Failure Analysis studies of Boiler Tubes, Condensers, Auto Components, Hooks, Bolts etc. Polymer components, Root Cause analysis, SEM, XRD Techniques.



## Hazardous Substances, Restricted RoHS/REACH

ROHS Toxic Metals, Brominated Compounds as required under ELV- 2002, EU Directive-2002, WEE-2006. NMR, XRD, ICP-OES, ICP-MS, FTIR, GC, GC\_MS, XRF, HPLC. Mechanical Calibration

# TESTING OF ENGINEERING MATERIALS

## Chemical Testing

1. Spectrometer (OES) - Spectro Maxx
2. Spectrometer (XRF) - ED/X-LAB-2000/WDRigaku
3. Spectrometer (OES) - Metallab / GNR
4. Spectrometer (ICP) - Varian/Agilent
5. GC- MASS Polaris-Q (Thermo finnigan)
6. HPLC-Post Derivative Attachment - Pickering lab, UK
7. UV- Visible Spectro Photo Meter - Thermo
8. Atomic Absorption Spectrometer - East-west
9. Portable XRF - X Met / Oxford / Sky Ray
10. Arc-Met Portable Spectrometer - Oxford
11. FTIR Spectrometer - Perkin Elmer / Agilent
12. XRD - Rigaku
13. Universal Auto Titrator
14. Flame Photometer
15. CHN Analyzer - Perkin Elmer 2400
16. HPLC - Shimadzu / Agilent
17. LCMS- Agilent
18. ICP - MS - Agilent

## Electrical, Electronics & Calibration

1. Breakdown Voltage Tester
2. B.D.V Tester
3. Tan Delta Meters
4. Resistivity Meter
5. H. V. Tester
6. Power Supply AC / DC
7. Thermal Stability Test Apparatus
8. Power Analyzer
9. Universal Length Measuring Machine
10. Universal Calibrator - Masibus
11. Calibration Bath/Furnace - Poly-Science/Tampsens
12. Digital L.C.Z. meter - Zentech
13. Calibration System - Wavetac 9100
14. Proving Ring - 25, 100, 400 KN
15. Air Borne Particle Counter - Horni
16. Dead Weights Tester - upto 1000kg-Yantrika
17. Granite Surface Plate - Bagsons
18. Digital Multimeter 6.5 digit - Fluke
19. Gillian Flow Calibrator

## Mechanical / Metallurgical / Endurance

1. U.T.M. - 500 KN - Servo Hydraulic
2. Hardness Rockwell / Vickers / Brinell
3. Impact Tester (Charpy/Izod) - BS/ASTM
4. Microscope - Union Versamet
5. SEM (Scanning Electron Microscopy Hitachi)
6. CCD Camera (with Image Software)
7. Relaxation Testers
8. Profile Projectors
9. Torsion testing Machine
10. U.T.M. Machine - 50 Kn - Computerized
11. Surface Roughness Tester (Mitutoyo)
12. Coating Thickness Tester (Fischer)
13. Micro Hardness Tester (Mitutoyo)
14. Erischen Cupping Tester
15. Electrodynamic Vibration Shaker
16. Thermal Shock Chamber
17. Bump Test machine
18. Salt Spray/ CASS Test Chambers

## Textile / Microbiology

1. ATLAS Xenon Tester-Alpha
2. Crockmeter
3. Tensile Machines(Zwick)
4. Tear Strength
5. Launderometer
6. Bursting Strength Tester
7. Elga Water Purifier
8. Laminar Flow Bench (2)
9. Incubator-CO2
10. Elisa Reader/Washer
11. Antibiotic Zone Reader
12. Digital Colony Counters

## Building Materials

1. Vibration Machine
2. Cement Autoclave
3. Water permeability App
4. Vicat Apparatus
5. Aggregate Impact
6. Aggregate Crushing Value App.
7. Loss Angles Abrasion Test App.
8. Bitumen Extractor 94 CBR Test Apparatus
9. Standard Procter Test (Light) App.
10. CBR Test Apparatus
11. CTM - 200 Tons
12. Blain Air Permeability Apparatus
13. Digital Gloss Meter
14. Bitumen Penetrometer
15. Core Cutter Machine (3)
16. Stone Polishing Machine

**OUR PURPOSE**  
IS TO HELP CUSTOMERS  
DELIVER SERVICES / PRODUCTS  
THE WORLD CAN TRUST  
PURPOSE

## MAJOR CLIENTS



# FSSC TESTING LAB PVT LTD



**FSSC Testing  
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