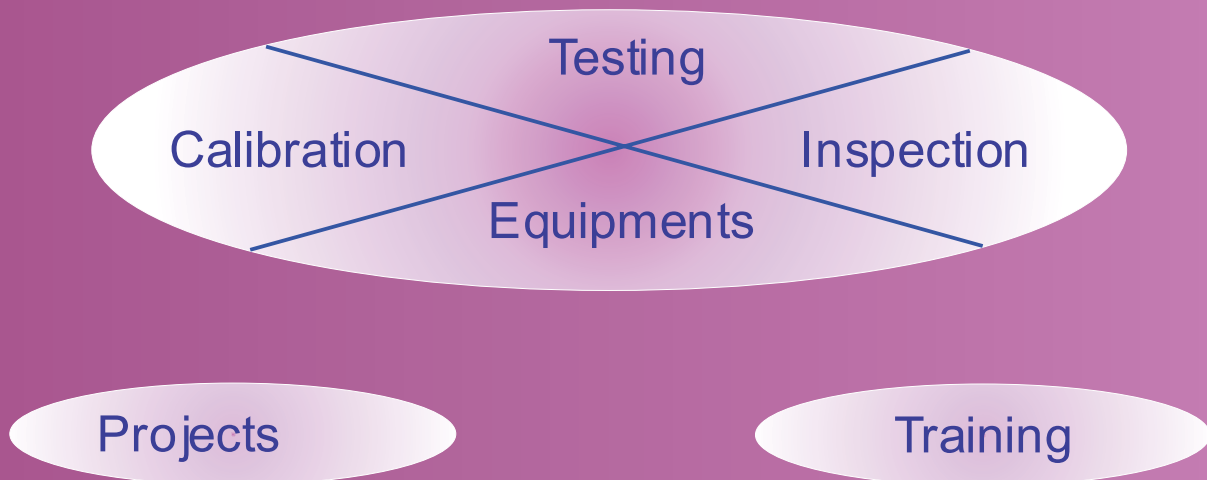




COMMITMENT
TO
EXCELLENCE



About us



Spectro Analytical Labs Limited started in the year 1995 from a small setup in Delhi. Today it has 5 associate companies and 10 locations with branches and offices all over India and Abroad. India's foremost Analytical testing laboratory covering all analytical branches. Having the prestigious NABL accreditation in the fields of Chemical, Mechanical, and Biological, Non-Destructive Testing & Calibration (Mechanical, Electro-Technical & Thermal). Our organization is ISO 9001, 14001 certified and approved by BIS. SPECTRO offers a wide range of analytical services including the Testing, Calibration, Equipments, Consultancy, Training and Inspection being the major verticals. The versatility of the company has enabled us to develop multifaceted expertise that has broadened our experience to match the demands of today.



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 and HPLC Training

Services we Provide

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

Calibration Services

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



Projects & Consultancies

- > ETP Designing & Maintenance
- > Metallurgical Process Development
- > Reverse Engg. Components
- > Laboratory Setup
- > EIA/EMP Studies
- > Clean Room Designing & Validation



Inspection Services

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



Testing Services

Testing of Engineering Materials



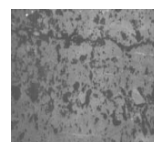
Metals & Alloys

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



Mechanical Testing

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



Metallography

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



Corrosion Testing

Salt Spray, CASS, Pitting, Crevice Corrosion, HIC/SSCC, IGCC test, Chloride Corrosion test, Ammonia Vapour test, Vibration, Heat Cycle, Thermal Shock, etc.



NDT, Structural & Building Inspection

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



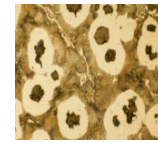
Failure Analysis

Failure Analysis studies of Boiler Tubes, Condensers, Auto Components, Hooks, Bolts etc. Polymer components, Root Cause, Recommendations to avoid Future Failures.



Welded Structure

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



RLA Studies

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



Hazardous Substances, Restricted RoHS/REACH

ROHS Toxic Metals, Brominated Compounds as required under ELV-2002, ROHS-2004, EU Directive-2002, WEE-2006. NMR, XRD, ICP-OES, ICP-MS, FTIR, GC, GC_MS, XRF, HPLC, UV-VIS, Optical Activity

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



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, Microbial count, etc.



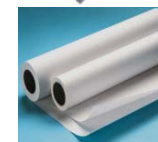
Water & Waste Water

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



Environmental Monitoring & Clean Room Validation

Ambient Air, Stack, Indoor, Noise, Soil, Solid Waste, EIA, EMP Studies. Airflow velocity, Airflow Volume, Air Cleanliness Class Test, Particle count,



Paper & Packaging Material

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



Microbiology Testing

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

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.



Paint & Coating

Spectro performs various coatings and paints tests to assess their performance. Tests include resistance against



Coal/Coke

Calorific value, ultimate, Proximate analysis- Moisture, Volatile matter, Ash and Fixed Carbon - C, H, O, N, S



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.



Minerals & Ores

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



Petroleum Products

Insulating Oils, HSD, Engine Oil. for Wear Metals, Dissolved Gases, Viscosity, Fire Point, Flash Point, SOAP Analysis, Mud Analysis, Oil Analysis, Ferrography, Particle count

Miscellaneous Products



Wood & Furniture Testing

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



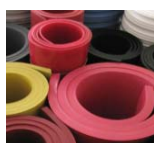
Refractories and Insulation Materials

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



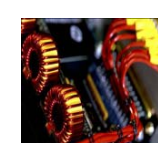
Hardlines/Softlines Products

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



Polymers & Rubbers

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



Electrical/Electronic Products

Cables, Appliances, Components for High Voltage, Resistance Dust, Salt Spray, Vibration test



Miscellaneous Products

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

Calibration



Mechanical Calibration

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



Electro-Technical Calibration

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



Thermal Calibration

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

Major Testing Equipments

Chemical Testing

1. Spectrometer (OES) - Polyvac-181/ Hilger
2. Spectrometer (XRF) - ED/X-LAB-2000/WD-Rigaku
3. Spectrometer (OES) - Metallab / GNR
4. Spectrometer (ICP) - Varian
5. GC- MASS Polaris-Q (Thermo finnigan)
6. HPLC-Post Derivative Attachment - Pickering lab,UK
7. UV- Visible Spectro Photo Meter - Thermo Nicolet
8. Atomic Absorption Spectrometer - GBC/East-west
9. Portable XRF - X Met - Oxford (3)
10. Arc-Met Portable Spectrometer - Oxford (2)
11. FTIR Spectrometer - Perkin Elmer
12. Abbe Refractometer
13. Universal Auto Titrator
14. Flame Photometer
15. CHN Analyzer - Perkin Elmer 2400
16. Salt Spray/ CASS Test Chambers
17. HPLC - Shimadzu , Japan
18. LCMS

Mechanical / Metallurgical / Environmental

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. CCD Camera (with Image Software)
6. Profile Projector
7. Profile Projectors
8. Torsion testing Machine
9. U.T.M. Machine - 100 Tons - Electronic
10. Surface Roughness Tester (Mitutoyo)
11. Coating Thickness Tester (Fischer)
12. Micro Hardness Tester (Mitutoyo)
13. Ferrite Meter
14. Erischen Cupping Tester
15. Electrodynamical Vibration Shaker
16. Thermal Shock Chamber
17. Bump Test machine

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)

Non-Destructive Testing

1. X-Ray Radiography 300 KV(4 Unit)
2. Magnaflux Yoke Type (3)
3. Ultrasonic Concrete Tester (Proceq)
4. Ultrasonic Thickness Machine-Panametrics (5)
5. Dye Penetrant Test Kits
6. Ultrasonic Flaw Detector - Panametrics (5)
7. Gamma Radiography (3)
8. Digital Hammer (Proceq)
9. Helium Leak Tester - Balzer
10. Eddy Current Tester - Hocking 2200
11. Digital X-Ray System - SAIC - RTR-4

Rubbers & Plastics

1. U.T.M. Machine 5-50KN - Servo
2. Ozone Chamber (Hampden)
3. Deep Freezer (-70 °C)
4. Bursting Strength Machine (Digital)
5. Vicat Softening Temp Apparatus
6. Hydrostatic Pressure Testing Machine
7. Tear Tester
8. Differential Scanning Calorimetry - Mettler
9. Thermo-Gravimetric Analyzer - Mettler
10. D.M.A. - Polymer Labs
11. Resilience Tester
12. Impact Tester (Charpy/Izod)
13. Flammability Chambers
14. Toxicity Chamber
14. Melt Flow Apparatus

Textile / Microbiology

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

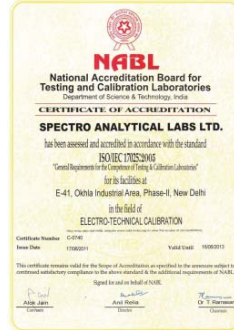
Petroleum Products / Environmental

1. Bomb Calorimeter
2. Flash Point Appls
3. Pour Point / Cloud Point
4. Oil Testing Centrifuge
5. Viscosity Bath
6. Dissolved Gas Extractor
7. Respirable Dust Sampler (40)
8. Infra Red CO Analyzer
9. Portable Hydrocarbon FID Analyzer
10. Brookfield Viscometer
11. Toxic Gas Detector
12. High Volume Samplers (40)
13. Stack Sampling Kits (2)
14. Laser Particle Counter/CFM
15. Ambient Indoor Monitors
16. Weather Stations (3)
17. Sound Level Meters (5)

Electrical / 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. Standard Finger Test
10. Universal Length Measuring Machine
11. Universal Calibrator - Masibus
12. Calibration Bath/Furnace - Poly-Science/Tampsens
13. Digital L.C.Z. meter - Zentech
14. Calibration System - Wavetak 9100
15. Proving Ring - 25, 100, 400 KN
16. Air Borne Particle Counter - Horni
17. Dead Weights Tester - upto 1000kg - Yantrika
18. Granite Surface Plate - Bagsons
19. Digital Multimeter 6.5 digit - Fluke
20. Gillian Flow Calibrator
21. Pipette Calibration System

Accreditations, Approvals and Major Clients



Branch Laboratories

Kanpur (Uttar Pradesh)
Jaipur (Rajasthan)
Patiala (Punjab)
Jammu (J & K)
Mumbai (Maharashtra)
Mangalore (Karnataka)
Bhubaneswar (Orissa)
Thrissur (Kerala)

Offices/Collection Center

Roorkee
Singrauli
Pata
Bangalore
Calcutta
Moradabad
Hyderabad



SPECTRO ANALYTICAL LABS LTD

Associate Companies

Spectro Lab Equipments (P) Ltd.

Manufacturing and Agencies for
Laboratory Test Equipments

Spectro Corporate Trainers (P) Ltd

Instrument & Corporate Systems Training

Spectro Weld Institute (P) Ltd.

Training Institute for Welding, NDT, etc

South West Spectro Geo. Services (P) Ltd

Gas, Mineral & Coal Exploration Services

Spectro Labcare (P) Ltd

Equipment Validation Maintenance &
Reconditioning

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