



FALCON INDUSTRIAL TESTING LABORATORY

PRIVATE LIMITED

Civil • Geotech • Environmental • Food



ISO/IEC 17025:2017 ACCREDITED LABORATORY



**PILE LOAD
TESTING**

ACCREDITED BY NABL

Certificate No.: TC-16625



**CIVIL AND BUILDING
MATERIALS TESTING**



**WATER AND AIR QUALITY
TESTING (MOEF, PCB)**



**STRUCTURAL AUDIT &
CONDITION ASSESSMENT SERVICES**



**FOOD QUALITY
TESTING (FSSAI)**



**SOIL AND GEOTECHNICAL
INVESTIGATIONS**



**ENVIRONMENTAL AND INDUSTRIAL
HYGIENE SERVICES**



**NON-DESTRUCTIVE
TESTING**

**FALCON INDUSTRIAL
TESTING LABORATORY**
PRIVATE LIMITED
Civil • Geotech • Environmental • Food

**YOUR TRUSTED
PARTNER FOR
QUALITY ASSURANCE**

A Message from the

MANAGING DIRECTOR



At Falcon Industrial Testing Laboratory Pvt Ltd., our mission is to deliver accurate, reliable and timely testing services that empower industries to build a safer, stronger and sustainable future.

With a customer-centric approach, advanced infrastructure and a team of competent professionals, we are committed to upholding the highest standards of quality, integrity and technical excellence.

Thank you for trusting Falcon Lab as your partner in quality assurance.



Jeyalala Jeyaseelan
MANAGING DIRECTOR

With over 16 years of operational excellence, Falcon Lab has built a reputation for delivering accurate, reliable, and timely test results that comply with national and international standards. Our commitment to quality, technical competence, and customer satisfaction has positioned us among the most trusted independent testing laboratories in

VISION, MISSION & CORE VALUES

Our Vision

To be the leading provider of comprehensive testing, inspection, and consultancy services in India, contributing to the safety, sustainability, and quality of infrastructure, industry, and environment worldwide.

Our Mission

To deliver unbiased, scientifically sound testing services that meet the highest industry standards, supporting clients in ensuring regulatory compliance, improving product quality, and protecting public health and the environment.

16+

YEARS OF EXCELLENCE

500+

CLIENTS SERVED

200+

EQUIPMENT UNITS

1000+

TESTING PARAMETERS

5000+

PROJECTS COMPLETED

6

INDUSTRY VERTICALS

50+

ENGINEERS & EXPERTS

15+

STATES COVERED

CORE VALUES

INTEGRITY

QUALITY

COMPETENCE

INNOVATION

CUSTOMER
FOCUS

SAFETY &
SUSTAINABILITY

3

WHY FALCON LAB?

1

NABL ACCREDITED & ISO CERTIFIED

Accredited as per ISO/IEC 17025:2017 ensuring international recognition and technical competence.

2

STATE-OF-THE-ART INFRASTRUCTURE

Equipped with advanced instruments and modern facilities to deliver precise and reliable results.

3

EXPERIENCED PROFESSIONALS

A team of qualified and skilled experts with extensive industry and domain knowledge.

4

COMPREHENSIVE TESTING SERVICES

One-stop solution for civil, geotechnical, environmental, metallurgical, food safety and more.

5

ACCURATE & TIMELY RESULTS

Strong commitment to deliver accurate results within committed timelines.

6

CUSTOMER-CENTRIC APPROACH

Tailored solutions and responsive support for complete client satisfaction.

7

QUALITY & COMPLIANCE ASSURED

Strict adherence to national and international standards ensuring reliability and regulatory compliance.

8

PAN INDIA SERVICE CAPABILITY

Serving clients across multiple states with field and laboratory testing support.

1

CORPORATE INFORMATION

Legal Name	FALCON INDUSTRIAL TESTING LABORATORY PRIVATE LIMITED
Established	Nov 2010
Headquarters	Chennai, Tamil Nadu, India
NABL Certificate	TC-16625 (Valid until August 2029)
Accreditation	ISO/IEC 17025:2017
Website	www.fitpl.in
Business Sectors	Civil, Geotechnical, Environmental, Food Safety, Metallurgical, Safety and Reliability

2

COMPANY OVERVIEW

Falcon Industrial Testing Laboratory Private Limited (Falcon Lab) is a leading NABL-accredited testing laboratory headquartered in Chennai, Tamil Nadu, India. Established in July 2009, the company has emerged as a trusted provider of comprehensive testing, inspection, analysis, and consultancy services across civil engineering, geotechnical investigation, environmental monitoring, metallurgical analysis, and food safety domains.

Strategically located at Plot No.1, Dr. Abdul Kalam Road, Pudupakkam, Kelambakkam, Chennai, our state-of-the-art laboratory facility serves a diverse clientele including EPC contractors, infrastructure developers, government agencies, manufacturing industries, construction companies, consultants, and hospitality sectors across India.

4 GEOGRAPHIC REACH

WE OPERATE ACROSS

- Tamil Nadu
- Karnataka
- Andhra Pradesh Telangana
- Kerala
- Maharashtra
- Gujarat and many more.

Falcon Lab provides testing services across multiple states in India, with primary operations concentrated in Tamil Nadu and extended capabilities serving clients in Karnataka, Andhra Pradesh, Telangana, Kerala, Maharashtra, Gujarat, and other states.

Our field investigation teams are equipped to mobilize rapidly to project sites anywhere in the country.

YOUR TRUSTED PARTNER FOR QUALITY ASSURANCE

CIVIL AND BUILDING MATERIALS TESTING

STRUCTURAL AUDIT & CONDITION ASSESSMENT SERVICES

WATER AND AIR QUALITY TESTING (MOEF, PCB)

FOOD QUALITY TESTING (FSSAI)

SOIL AND GEOTECHNICAL INVESTIGATIONS

ENVIRONMENTAL AND INDUSTRIAL HYGIENE SERVICES

NON-DESTRUCTIVE TESTING

COMPREHENSIVE CIVIL AND MECHANICAL LABORATORY SOLUTIONS

1 BITUMEN AND FLEXIBLE PAVEMENT TESTING

- GSB ALL TEST
- WMM ALL TEST
- BITUMEN TEST
- EXISTING PAVEMENT INVESTIGATION
- BITUMEN CORE CUTTING
- FILLING SOIL SAMPLE ANALYSIS
- SOIL COMPACTION TESTS, ONSITE LAB SETUP

2 CONCRETE TESTING

- HARDENED CONCRETE TEST (CUBE/CYLINDER/BEAM)
- CONCRETE MIX DESIGN UPIO M8U GRADE OF CONCRETE
- CONCRETE CUBE TESTING BY ACCELERATED CURING METHOD
- FRESH CONCRETE TESTS (NOMINAL MIX/ SELF COMPACTING CONCRETE
- DURABILITY TESTS ON CONCRETE

3 STEEL TESTING

- REINFORCEMENT STEEL
- REINFORCEMENT COUPLER
- STRUCTURAL STEEL
- WELDED STEEL
- HT STRAND WIRES

4 BUILDING MATERIALS TESTING

- CERAMIC TILES
- CLAY TILES
- GRANITE
- MARBLES

4 BUILDING MATERIALS TESTING

- BURNT CLAY BRICKS (RED BRICKS)
- FLYASH BRICKS
- HOLLOW BRICKS
- MODULAR BRICKS
- SOLID BLOCKS
- HOLLOW BLOCKS
- KERB STONE
- COARSE AGGREGATE
- FINE AGGREGATE
- BURNT CLAY HOLLOW BRICKS FOR WALLS & PARTITIONS
- CEMENT (OPC/PPC/SRC/PSC)
- FLYASH
- PAVER BLOCKS
- AAC (AERATED CONCRETE BLOCKS)
- SILICA FUME
- GROUND GRANULATED BLAST FURNACE SLAG
- STEEL TESTING
- SOIL & ROCK

5 SOIL & ROCK TESTING

- FILLING SOIL SUITABILITY
- INDEX TESTS OF SOIL
- STRENGTH TESTS OF SOIL
- PERMEABILITY & CONSOLIDATION TESTS OF SOIL
- STABILIZED SOIL TEST
- ROCK (ENGINEERING PROPERTIES)
- NATURAL STONE

6 NON DESTRUCTIVE TESTING

- REBOUND HAMMER TEST
- ULTRASONIC PULSE VELOCITY TEST
- CARBONATION TEST
- HALF CELL POTENTIAL TEST
- REBAR SCANNER
- PILE INTEGRITY TESTING

7 AIR QUALITY & NOISE TESTING

- AMBIENT AIR / FUGITIVE EMISSIONS
- STACK GASES / SOURCE EMISSION
- NOISE LEVEL MONITORING

8 DG CONDITIONING MONITORING

- VIBRATION ASSESSMENT ON DG
- NOISE MEASUREMENT
- DG CONDITION REPORT

9 WATER & WASTE WATER TESTING

- PACKAGED DRINKING WATER
- NATURAL MINERAL WATER
- SURFACE/ROUND WATER
- WATER FOR CONSTRUCTION
- FEED WATER/BOILER WATER
- WATER FOR FOOD PROCESSING INDUSTRY
- WATER FOR STORAGE BATTERIES
- REAGENT WATER
- SEWAGE TREATMENT PLANT (SPT) WATER
- EFFLUENT TREATMENT PLANT (ETP) WATER
- REVERSE OSMOSIS (RO) WATER

10 FOOD & AGRICULTURE TESTING

- FRUITS AND VEGETABLES
- PROCESSED VEGETABLES
- FRUIT CONCENTRATES
- BEVERAGES
- SPICES
- PULSES AND CEREALS
- SEEDS COMPOSITION ANALYSIS
- CONFECTIONERY
- MEAT AND MEAT PRODUCTS
- EGG AND EGG POWDER
- MILK AND MILK PRODUCTS

11 PILE LOAD TESTING

- COMPRESSION STATIC LOAD TEST (INITIAL / ROUTINE)
- UPLIFT / PULL-OUT LOAD TEST
- LATERAL LOAD TEST
- DYNAMIC LOAD TEST
- PILE INTEGRITY TEST
- CROSS HOLE SONIC LOGGING TEST
- SONIC TUBE SELECTION AND INSTALLATION SUPPORT

CONSTRUCTION & INFRASTRUCTURE TESTING SERVICES

NBL ACCREDITED QUALITY ASSURANCE & GEOTECHNICAL SOLUTIONS FOR CONSTRUCTION PROJECTS

OUR CLIENT



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OUR SERVICES



CONSTRUCTION GRADE WATER TESTING

STANDARDS: IS 456, IS 3025

Testing of construction and curing water for concrete quality and durability.



BUILDING MATERIAL TESTING

STANDARDS: IS 516, IS 383, IS 1786, IS 13630, IS 1708

Physical and chemical testing of concrete, cement, aggregates, T bars, tiles, wood, and construction materials.



GEOTECHNICAL INVESTIGATION & SPT

STANDARDS: IS 1892, IS 2131, IS 6403

Borehole drilling, soil investigation, SPT, foundation recommendations, and pile capacity design.



PULL-OUT ADHESION TESTING

STANDARDS: ASTM C1583

Adhesion testing for plaster, tile fixing, granite cladding, and façade applications.



PILE LOAD TESTING

STANDARDS: IS 2911 (PART 4), ASTM STANDARDS

Static, dynamic, pull-out, lateral load, and pile integrity testing for foundation verification.



NON-DESTRUCTIVE TESTING (NDT)

STANDARDS: IS 13311, ASTM C876

Rebound hammer, UPV, half-cell potential, and structural condition assessment.



CONCRETE DURABILITY TESTING

STANDARDS: ASTM C1202

RCPT and durability evaluation for long-term concrete performance.



BITUMEN & SKID RESISTANCE TESTING

STANDARDS: IS 1201 SERIES, IRC STANDARDS, IS 13630

Road material testing, pavement quality evaluation, and skid resistance assessment.



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GEOTECHNICAL INVESTIGATION & TESTING SERVICES

**BUILDING SAFETY.
ENSURING STABILITY.**

**ACCURATE ANALYSIS. RELIABLE RESULTS.
STRONGER FOUNDATIONS.**

OUR CLIENT



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OUR SERVICES



STANDARD PENETRATION TEST (SPT) IS 2131:2023

In-situ test to determine soil resistance (N-value), relative density, consistency, and engineering properties for foundation design.



SAFE BEARING CAPACITY (SBC) ANALYSIS

IS 6403:1981, IS 1904:1986

Evaluation of allowable bearing capacity using field and laboratory data for safe foundation design.



DIRECT SHEAR & TRIAXIAL TESTS

IS 2720 (PART 13), IS 2720 (PART 12)

Determines shear strength parameters (cohesion & friction angle) and stress-strain behavior under controlled loading conditions.



CONSOLIDATION & PERMEABILITY TESTS

IS 2720 (PART 15 & PART 17)

Determines settlement characteristics, coefficient of consolidation, compressibility, and hydraulic conductivity of soils.



CORE DRILLING & SUBSURFACE PROFILING

IS 1892:2021, IS 4078, ISRM GUIDELINES

Rotary core drilling and geological logging to determine subsurface stratification, rock quality, groundwater conditions, and core recovery.



PLATE LOAD TEST

IS 1888:2022

Determines the safe bearing capacity (SBC) and settlement characteristics of soil using a rigid steel plate under static loading.



PIEZOMETER INSTALLATION

IS 6935

Installation of standpipe or vibrating wire piezometers for long-term groundwater level and pore water pressure monitoring.



GROUNDWATER LEVEL MONITORING

IS 6935

Periodic monitoring of groundwater table fluctuations using installed piezometers for geotechnical and environmental studies.



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PILE FOUNDATION TESTING SERVICES

NABL ACCREDITED FOUNDATION VERIFICATION & GEOTECHNICAL SOLUTIONS

COMPLETE GEOTECHNICAL & FOUNDATION SOLUTIONS



HYDRAULIC JACK & REACTION FRAME



PDA/DLT SYSTEM



DATA ACQUISITION SYSTEM



CSL SYSTEM



LOW STRAIN PIT ANALYZER

OUR SERVICES



STATIC LOAD TEST (SLT) **STANDARDS: IS 2911 (PART 4)**

Verification of pile load carrying capacity under static loading conditions.



COMPRESSION LOAD TEST **STANDARDS IS 2911 (PART 4)**

Initial and routine compression load testing for pile foundation performance.



UPLIFT / PULL-OUT LOAD TEST **STANDARDS: IS 2911 (PART 4)**

Evaluation of pile uplift resistance and anchorage capacity.



LATERAL LOAD TEST **STANDARDS: IS 2911 (PART 4)**

Assessment of pile behavior under lateral loading conditions.



DYNAMIC LOAD TEST (DLT / PDA TESTING) **STANDARDS: ASTM D4945**

High strain dynamic testing for pile capacity and integrity evaluation.



PILE INTEGRITY TEST (PIT) **STANDARDS: ASTM D5882**

Low strain integrity testing for defect and continuity assessment.



CROSS HOLE SONIC LOGGING (CSL) TEST **STANDARDS: IS 2911 (PART 4)**

Ultrasonic testing for deep foundation integrity and concrete quality assessment.



SONIC TUBE SELECTION & INSTALLATION SUPPORT **STANDARDS: IS 2911 (PART 4)**

Technical support for sonic tube selection, positioning, and installation supervision at project sites.

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QUALITY ASSURANCE & TECHNICAL TESTING FOR INDUSTRIAL CONSTRUCTION

FALCON LAB: SPECIALIZED GEOTECHNICAL AND MATERIAL TESTING SERVICES DESIGNED FOR INDUSTRIAL STRUCTURAL SAFETY AND COMPLIANCE, FOLLOWING STRICT INDIAN STANDARDS (IS CODES).

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OUR SERVICES



CONCRETE CORE TESTING (IS 516)

In-situ strength assessment of hardened concrete and existing RCC member evaluation



MATERIAL PROPERTY EVALUATION

Comprehensive testing of cement and aggregates for strength, soundness, and grading.



CONSTRUCTION WATER ANALYSIS (IS 456)

Assessment of chemical impurities to evaluate and mitigate reinforcement



GEOTECHNICAL INVESTIGATION (IS 1892)

Subsurface exploration through borehole drilling and SPT for foundation recommendation reports.



PLATE LOAD TEST (IS 1888)

Determination of safe bearing capacity and settlement for warehouse flooring and



FIELD DENSITY TESTING (IS 2720)

In-place density verification for pavement, yard work, and industrial floor compaction.



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YOUR INTEGRATED PARTNER FOR SOLAR ENERGY PROJECTS

ESSENTIAL GEOTECHNICAL &
FOUNDATION TESTING

SUBSURFACE & ELECTRICAL INVESTIGATION,
PILE LOAD TESTING & VALIDATION

OUR CLIENT



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OUR SERVICES



STANDARD PENETRATION TEST (SPT) & SOIL ANALYSIS

Evaluates Safe Bearing Capacity (SBC) to guide recommendations for module mounting Structures.



VERTICAL & LATERAL LOAD VERIFICATION

Confirms pile capacity and structural stability against heavy wind loads.



ELECTRICAL RESISTIVITY TEST (ERT)

Provides critical data for earthing grid design and lightning protection systems.



PULL-OUT (TENSION) TESTING

Essential for validating uplift resistance and preventing mounting structure overturning.



CORROSION ASSESSMENT

Analyzes soil layers to optimize the lifespan of Cl/MS mounting structures.



QUALITY ASSURANCE (QA)

Verifies design assumptions through routine testing before mass installation begins.

IS CODE COMPLIANCE MAP

**SOIL
INVESTIGATION**
IS 1892 & IS 2131

**PILE LOAD
TESTING**
IS 2911 (PART 4)

**EARTHING &
RESISTIVITY**
IS 3043



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YOUR INTEGRATED PARTNER FOR WIND ENERGY PROJECTS

TECHNICAL & STRUCTURAL ENGINEERING,
ENVIRONMENTAL & REGULATORY EXCELLENCE

OUR CLIENT

SUZLON



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OUR SERVICES



ADVANCED GEOTECHNICAL INVESTIGATION

Soil and offshore exploration to ensure foundation stability and bearing capacity.



END-TO-END REGULATORY SUPPORT

Expert navigation of SEIAA/SEAC and MoEF&CC requirements for environmental clearances.



SITE SURVEY & ELECTRICAL SAFETY

Topographical surveys for layout optimization and resistivity testing for earthing systems.



COMPREHENSIVE BASELINE MONITORING

Full EIA studies covering air, water, noise, and soil impact assessments.



STRUCTURAL INTEGRITY ASSESSMENT

Concrete core testing to evaluate the health of existing wind turbine foundations.



TRUSTED BY INDUSTRY LEADERS

Proven experience delivering high-quality reports for major players like Suzlon and Leap Energy.

IS CODE COMPLIANCE MAP

**SOIL
INVESTIGATION**
IS 1892 & IS 2131

**PILE LOAD
TESTING**
IS 2911 (PART 4)

**EARTHING &
RESISTIVITY**
IS 3043



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FLEXIBLE PAVEMENT AND BITUMINOUS MATERIALS TESTING

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OUR SERVICES



BITUMEN BINDER TESTING **IS 1201 SERIES**

Evaluates physical and engineering properties of paving bitumen for quality and specification compliance.



BITUMINOUS MIX DESIGN (MARSHALL METHOD) **ASTM D6927 / MORTH**

Determines the optimum bitumen content and performance characteristics of asphalt mixtures.



BITUMINOUS MIX EXTRACTION & GRADATION **ASTM D2172**

Determines bitumen content and aggregate gradation of asphalt mixtures for quality control.



BULK DENSITY & COMPACTION OF BITUMINOUS MIX **ASTM D2726**

Determines density and compaction of asphalt specimens for pavement quality assessment.



CORE DENSITY & PAVEMENT THICKNESS **ASTM D3549**

Measures in-situ pavement thickness and density using extracted asphalt cores.



SKID RESISTANCE TESTING **BS EN 13036-4**

Measures pavement surface friction using the British Pendulum Tester to evaluate skid resistance and road safety.



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ADHESION & COATING TESTING

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PULL-OFF TEST - CEMENT PLASTER ADHESION

ASTM C1583

Measures the bond strength of cement plaster to concrete or masonry substrates using direct tensile loading.



PULL-OFF TEST - EPOXY COATING ADHESION

ASTM D4541

Determines the adhesion strength of epoxy coatings applied on concrete or steel surfaces.



PULL-OFF TEST - GYPSUM PLASTER ADHESION

ASTM C1583

Evaluates the tensile bond strength of gypsum plaster systems to substrate surfaces.



PULL-OFF TEST - TILE ADHESION

EN 1348

Determines the tensile adhesion strength of ceramic and stone tiles bonded using tile adhesives.



DRY FILM THICKNESS (DFT) TEST

SSPC-PA 2 / ASTM D7091

Measures the thickness of applied epoxy or protective coatings to verify specification compliance.



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INDUSTRIAL ENVIRONMENTAL & COMPLIANCE TESTING SERVICES

NABL ACCREDITED TESTING &
TNPCB COMPLIANCE SOLUTIONS FOR INDUSTRIE

OUR CLIENT

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ISUZU

VOLTAS

TAFE



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OUR SERVICES



RO & FEED WATER TESTING STANDARDS: IS 10500, IS 3025

Chemical and microbiological analysis for industrial process and drinking water quality.



WASTEWATER & STP WATER ANALYSIS

STANDARDS: TNPCB NORMS, IS 3025 SERIES

Effluent and sewage treatment monitoring for regulatory compliance.



INDOOR AIR QUALITY MONITORING

STANDARDS: I S 5182

Assessment of workplace air quality and ventilation safety.



AMBIENT AIR, NOISE & LIGHTING ASSESSMENT

STANDARDS: NAAQS, IS 9989

Environmental monitoring for industrial and construction facilities.



DG SET & STACK EMISSION TESTING

STANDARDS: CPCB / TNPCB NORMS, IS 11255

Emission monitoring for generators, boilers, and industrial stacks.



INDUSTRIAL HYGIENE ASSESSMENT

TANDARDS: OSHA / NIOSH GUIDELINES

Workplace exposure and occupational health risk assessment,



ENVIRONMENTAL IMPACT ASSESSMENT & TNPCB COMPLIANCE

EIA studies, consent compliance, and environmental reporting support.



FOOD & CANTEEN SAFETY TESTING

STANDARDS: FSSAI STANDARDS

Food quality and hygiene testing for industrial catering facilities.



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HOSPITALITY & FOOD SAFETY TESTING SERVICES

NABL ACCREDITED HYGIENE, WATER, ENVIRONMENTAL & FOOD SAFETY SOLUTIONS

OUR CLIENT



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OUR SERVICES



WATER TESTING

STANDARDS: IS 10500, IS 3025 SERIES

- Drinking water, RO water, borewell water, tanker water testing
- Swimming pool water testing
- Boiler & hot water testing
- Microbiological testing for hospitality facilities



FOOD SAFETY & MICROBIOLOGICAL TESTING

STANDARDS: IS 5401, IS 5887, IS 5888, IS 1479

- Cooked food analysis & raw material testing
- Oil quality & used cooking oil testing
- Milk & dairy product testing
- Spice & masala testing
- Shelf-life studies
- Microbiological analysis - E. coli, Salmonella, Yeast & Mold, etc.
- Using relevant FSSAI, BIS, APHA & standard laboratory methods



HYGIENE & ENVIRONMENTAL MONITORING

STANDARDS: IS 5182, IS 9989

- Indoor air quality monitoring
- Ambient air assessment
- Noise monitoring
- Kitchen ventilation assessment
- Surface swab & hand swab testing
- ATP hygiene monitoring



WASTEWATER & ENVIRONMENTAL COMPLIANCE

STANDARDS: IS 3025 SERIES, TNCB NORMS

- STP water analysis
- Sewage & effluent testing
- Kitchen wastewater / grease trap analysis
- Wastewater monitoring
- Environmental compliance reporting



OCCUPATIONAL HEALTH & SAFETY

STANDARDS: NBC GUIDELINES / WORKPLACE STANDARDS

- Lighting assessment
- Thermal comfort monitoring
- Indoor noise assessment
- Industrial hygiene monitoring for kitchen & laundry areas



INFRASTRUCTURE & FACILITY TESTING

STANDARDS: IS 516, IS 13311, ASTM C1583

- Concrete & structural quality testing for hotel buildings
- Waterproofing assessment
- Adhesion testing for tiles, plaster, waterproofing systems



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STEEL & METALLURGICAL TESTING SERVICES

NABL ACCREDITED TMT BAR & STAINLESS STEEL TESTING SOLUT

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TMT BAR MECHANICAL TESTING STANDARDS: IS 1608, IS 1599, IS 1786

- Tensile Strength Test
- Yield Strength Test
- Elongation Test
- Bend Test
- Rebend Test
- Mass per Meter / Unit Weight Test
- Rib Geometry Measurement



TMT BAR CHEMICAL ANALYSIS STANDARDS: IS 228 SERIES

- Carbon Analysis
- Sulphur Analysis
- Phosphorus Analysis
- Manganese Analysis
- Chemical Composition Verification



SPECTRO CHEMICAL ANALYSIS (OES)

- Advanced Optical Emission
- Spectroscopy (OES) for
- Rapid and accurate
- Elemental analysis of
- Ferrous and non-ferrous metals.



STAINLESS STEEL GRADE VERIFICATION

STANDARDS: ASTM E1086 / IS 228

- Grade identification and
- Verification of SS202, SS304, SS316 and other stainless Steel Grades



STAINLESS STEEL CHEMICAL COMPOSITION ANALYSIS

Elemental analysis for Chromium, Nickel, Molybdenum, Manganese, Carbon, Silicon and other alloying elements using OES Spectrometer.



QUALITY ASSURANCE & MATERIAL VERIFICATION

Third-party testing and verification services for incoming materials, fabrication works, infrastructure projects, and manufacturing quality control.



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ENVIRONMENTAL COMPLIANCE FOR CONSTRUCTION SITE

Our environmental experts perform periodic site audits to verify compliance with construction environmental regulations, identify gaps and recommend corrective actions before regulatory inspections.

Integrated Environmental Compliance Package

One Partner for Complete Construction Environmental Management

Falcon Lab provides end-to-end environmental compliance solutions for construction projects, combining monitoring, testing, equipment supply and consultancy under one roof.

OUR CLIENT



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COMPLETE PACKAGE INCLUDES:



AIR QUALITY MONITORING

- Continuous PM2.5 & PM10 monitoring
- Weather parameter monitoring
- Cloud dashboard & mobile access
- Daily, weekly & monthly reports
- Compliance documentation



CONSTRUCTION SITE SENSOR INSTALLATION AND DISPLAY

- Sensor supply & installation
- Solar/GSM enabled monitoring
- Upwind & downwind monitoring
- Data logging & cloud storage
- Annual Maintenance Contracts (AMC)



DG & VEHICLE EMISSION MONITORING

- DG stack emission monitoring
- Vehicle exhaust testing
- Smoke opacity measurement
- Emission compliance reports
- Regulatory support



FOGGING & DUST SUPPRESSION SYSTEMS

- Industrial fogging machines
- Mist cannon systems
- Dust suppression planning
- Installation & commissioning
- AMC & maintenance support



SITE-SPECIFIC ENVIRONMENTAL MANAGEMENT PLAN (EMP)

- Air quality management
- Dust control strategy
- Waste management plan
- Noise & vibration management
- Water pollution prevention
- Environmental monitoring schedule
- Regulatory compliance checklist



ENVIRONMENTAL COMPLIANCE AUDITS

- Site compliance inspections
- Environmental audit reports
- Corrective action plans
- Documentation review
- Compliance certification support



MONTHLY COMPLIANCE REPORTS



TNPCB & GCC DOCUMENTATION SUPPORT



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Chennai-603103, Tamilnadu, India.

INDUSTRIAL HYGIENE AND SAFETY TESTING

OUR CLIENT



**FALCON INDUSTRIAL
TESTING LABORATORY**
PRIVATE LIMITED
Civil • Geotech • Environmental • Food



OUR SERVICES



INDOOR AIR QUALITY (IAQ) ASSESSMENT

ISO 16000 SERIES, ASHRAE 62.1

Evaluates indoor air quality to ensure healthy workplaces and compliance with occupational standards.



SIMILAR EXPOSURE GROUP (SEG) ASSESSMENT

ACGIH, AIHA GUIDELINES

Identifies worker exposure groups and evaluates occupational health risks based on similar work activities.



CHEMICAL HAZARDS MONITORING & CONTROL RECOMMENDATIONS

OSHA, NIOSH, ACGIH TLVS

Monitors airborne chemical contaminants and recommends engineering and administrative controls to reduce exposure.



VOLATILE ORGANIC COMPOUNDS (VOC) MONITORING

ISO 16000-6, NIOSH METHODS

Measures VOC concentrations in indoor and industrial environments to assess exposure and air quality.



LEAK DETECTION AND REPAIR (LDAR) SURVEY

USEPA METHOD 21

Detects fugitive emissions from valves, flanges, pumps, compressors, and process equipment to reduce VOC emissions.



OCCUPATIONAL NOISE EXPOSURE ASSESSMENT

ISO 9612

Measures worker noise exposure and evaluates compliance with occupational exposure limits.



HEAT STRESS ASSESSMENT

ISO 7243

Evaluates workplace heat stress to protect workers in hot environments and improve safety.



ILLUMINATION (LUX) SURVEY

IS 3646, ISO 8995

Measures workplace lighting levels to ensure visual comfort, productivity, and safety compliance.



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ROHS COMPLIANCE TESTING SERVICES

NABL ACCREDITED RESTRICTION OF HAZARDOUS
SUBSTANCES (RoHS) TESTING SOLUTIONS

MATERIAL COMMONLY TESTED

- ELECTRICAL & ELECTRONIC EQUIPMENT (EEE)
- LED LIGHTING PRODUCTS
- PRINTED CIRCUIT BOARDS (PCB)
- CONSUMER ELECTRONICS
- PLASTIC COMPONENTS & HOUSINGS
- AUTOMOTIVE ELECTRICAL COMPONENT
- CONNECTORS & TERMINALS
- CABLES & WIRE INSULATION
- INDUSTRIAL ELECTRICAL EQUIPMENT

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LEAD (PB) ANALYSIS STANDARD: IEC 62321-5

Determination of Lead content in electrical and electronic materials for RoHS compliance.



CADMIUM (CD) ANALYSIS STANDARD: IEC 62321-5

Quantification of Cadmium in plastics, metals, coatings, and electronic components.



MERCURY (HG) ANALYSIS STANDARD: IEC 62321-4

Detection and measurement of Mercury in electronic products and materials.



HEXAVALENT CHROMIUM (CRS*) ANALYSIS STANDARDS: IEC 62321-7-1 / IEC 62321-7-2

Assessment of Hexavalent Chromium in metal coatings and surface finishes.



BROMINATED FLAME RETARDANTS STANDARD: IEC 62321-6

Testing of Polybrominated Biphenyls (PBB) and Polybrominated Diphenyl Ethers (PBDE).



ROHS 3 PHTHALATE TESTING STANDARD: IEC 62321-8

Analysis of DEHP, BBP, DBP, and DIBP phthalates in plastics, cables, and polymer materials.



MATERIAL VERIFICATION & COMPLIANCE ASSESSMENT

RoHS screening and compliance evaluation for raw materials, components, finished products, and imported goods.



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DG CONDITION MONITORING

ENSURING RELIABILITY.
PREVENTING DOWNTIME.

We help you detect potential problems early, improve DG performance, reduce maintenance costs and ensure uninterrupted power.

OUR CLIENT



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TESTING LABORATORY**
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OUR SERVICES



VIBRATION MONITORING

Detect imbalance, misalignment, looseness and bearing defects.



NOISE LEVEL MONITORING

Ensure compliance with noise standards & workplace safety.



BEARING & SURFACE TEMPERATURE MEASUREMENT

Identify overheating & Lubricant issue



RPM VERIFICATION

Verify operating speed for optimal Performance



DETAILED REPORT & ANALYSIS

Clear observation trend evaluation & actionable recommendations.



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CERTIFICATE OF ACCREDITATION



**FALCON INDUSTRIAL
TESTING LABORATORY**
PRIVATE LIMITED
Civil • Geotech • Environmental • Food



in accordance with the standard



National Accreditation Board for
Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

FALCON INDUSTRIAL TESTING LABORATORY PRIVATE LIMITED

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

**"General Requirements for the Competence of Testing &
Calibration Laboratories"**

for its facilities at

PLOT NO.1, DR.ABDULKALAM ROAD, VANDALUR-KELAMBAKKAM MAIN ROAD, PUDHUPAKKAM,
KELAMBAKKAM, TAMIL NADU, INDIA

in the field of

TESTING

Certificate Number: TC-16625

Issue Date: 20/08/2025

Valid Until: 19/08/2029

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.
(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Entity: FALCON INDUSTRIAL TESTING LABORATORY PRIVATE LIMITED

Signed for and on behalf of NABL



Srikanth R
Director

N. Venkateswaran
Chief Executive Officer



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+91 72000 96379



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CERTIFICATE OF REGISTRATION

FALCON INDUSTRIAL TESTING LABORATORY PRIVATE LIMITED

PLOT 1, DR. ABDUL KALAM ROAD, PUDUPAKKAM, VANDALUR -
KELAMBAKKAM MAIN ROAD, CHENGALPATTU, CHENNAI – 603103 (INDIA)

has been assessed and certified by Ranalysis Certification Pvt. Ltd. as meeting the
requirements of :

ISO 9001:2015 QUALITY MANAGEMENT SYSTEM

for the following Scope

Providing comprehensive inspection, testing, and technical consultancy services for building and construction materials, soil and rock, geo-technical, metals and alloys, water and wastewater, food and agricultural products, ambient air quality, atmospheric emissions, environmental pollutants, and chemical analysis. Also providing Non-Destructive Testing (NDT), structural condition assessment of reinforced concrete structures, industrial hygiene testing and assessment, chemical and microbiological testing of water, wastewater, food and agricultural products.

Certification No. : 02FFEE52

Verify at : www.ranalysiscert.com

Date of Certification : 2026-07-22

1st Surveillance Due : 2027-07-21

2nd Surveillance Due : 2028-07-21

Certificate Expiry : 2029-07-21

Validity of the certificate is subject to successful completion of surveillance audit.



[Signature]
Authorized Signatory

Validity of the certificate is subject to successful completion of surveillance audit on or before due date (in case surveillance audit is not allowed to be conducted, this certificate shall be suspended/withdrawal) * this certificate of registration remains the property of Ranalysis Certification Pvt. Ltd. and shall returned immediately upon request.

Website: www.ranalysiscert.com | Email id : ranalysiscert@gmail.com

Address: Ground Floor, JR Plaza Bahadurgarh - 124507 Haryana, India



CERTIFICATE OF REGISTRATION

FALCON INDUSTRIAL TESTING LABORATORY PRIVATE LIMITED

PLOT 1, DR. ABDUL KALAM ROAD, PUDUPAKKAM, VANDALUR -
KELAMBAKKAM MAIN ROAD, CHENGALPATTU, CHENNAI – 603103 (INDIA)

has been assessed and certified by Ranalysis Certification Pvt. Ltd. as meeting the
requirements of :

ISO 14001:2015

ENVIRONMENTAL MANAGEMENT SYSTEM

for the following Scope

Providing comprehensive inspection, testing, and technical consultancy services for building and construction materials, soil and rock, geo-technical, metals and alloys, water and wastewater, food and agricultural products, ambient air quality, atmospheric emissions, environmental pollutants, and chemical analysis. Also providing Non-Destructive Testing (NDT), structural condition assessment of reinforced concrete structures, industrial hygiene testing and assessment, chemical and microbiological testing of water, wastewater, food and agricultural products.

Certification No. : BCD57647

Verify at : www.ranalysiscert.com

Date of Certification : 2026-07-22

1st Surveillance Due : 2027-07-21

2nd Surveillance Due : 2028-07-21

Certificate Expiry : 2029-07-21

Validity of the certificate is subject to successful completion of surveillance audit.



[Signature]
Authorized Signatory

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FALCON INDUSTRIAL TESTING LABORATORY PRIVATE LIMITED

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has been assessed and certified by Ranalysis Certification Pvt. Ltd. as meeting the
requirements of :

ISO 45001:2018

OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEM

for the following Scope

Providing comprehensive inspection, testing, and technical consultancy services for building and construction materials, soil and rock, geo-technical, metals and alloys, water and wastewater, food and agricultural products, ambient air quality, atmospheric emissions, environmental pollutants, and chemical analysis. Also providing Non-Destructive Testing (NDT), structural condition assessment of reinforced concrete structures, industrial hygiene testing and assessment, chemical and microbiological testing of water, wastewater, food and agricultural products.

Certification No. : 09A7117B

Verify at : www.ranalysiscert.com

Date of Certification : 2026-07-22

1st Surveillance Due : 2027-07-21

2nd Surveillance Due : 2028-07-21

Certificate Expiry : 2029-07-21

Validity of the certificate is subject to successful completion of surveillance audit.



Ranalysis
Authorized Signatory

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FALCON LAB

Testing | Inspection | Analysis | Certification | Consultancy

*"Testing Excellence. Trusted Results.
Building India's Future."*

Falcon Industrial Testing Laboratory Private Limited

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INDUSTRIES SERVE



ELECTRONIC



OEM MANUFACTURERS



CABLE & WIRE



STEEL MANUFACTURERS



ROLLING MILL



AUTOMOTIVE COMPONENT



CONSUMER ELECTRONICS



ELECTRICAL EQUIPMENT



CONSTRUCTION



EPC CONTRACTORS



EXPORT & IMPORT



INDUSTRIAL



RESORTS



RESIDENTIAL & COMMERCIAL



BRIDGES & FLYOVERS



HOTELS



RESTAURANT



HIGH RISE BUILDING



INDUSTRIAL PROJECTS



HIGHWAY ROADS



CATERING UNITS



INDUSTRIAL CANTEENS



HOSPITALS



FOOD COURTS



FABRICATION