

The background of the entire page is a grayscale photograph of an industrial test facility. It features a large, curved, grid-like structure, possibly a dome or a large window, with various mechanical components and pipes visible. Two thick, bright blue curved lines are overlaid on the image: one at the top and one at the bottom, framing the central text.

ALPHA[®]
TEST HOUSE (P) LTD.

WELCOME TO

**ALPHA TEST
HOUSE (P) LTD.**

SINCE 2010

ALPHA[®]

TEST HOUSE (P) LTD.

Alpha Test House was established, in 2010 in Delhi, India's capital. Today, Alpha Test House is a leading Analytical Testing Laboratory with a strong customer base location in Northern and other parts of India. Alpha Test House – Laboratories are located in Delhi, Bhahadurgarh (Haryana) & Chandigarh (Punjab) with extensive presence through a large client base in India and across the world covering wide range of areas/disciplines of testing which includes EMI/EMC & RF, Durable White Goods & Home Appliances, IT Electronic AV & Lighting Products, LED Luminaire, Toys, Electrical Wire & Cables, Drones UAV UAS, Footwear, Water, Road & Highways, Soil, Geotechnical, Building Material, Food Products, Micro Biological, Environment, Metal Alloys, Textile, Flame Retardants, Non-Destructive, Fertilizer, Neutralizer, Miscellaneous Testing Etc.

Alpha Test House provides its services with an objective to provide, reliability, Credibility, safety, quality, Environmental friendly as well as timely cost effective services through technical support and solutions.

The laboratory has state-of-the-art infrastructure, Modern scientific Testing equipments and technology driven instruments which are managed by highly qualified experienced professionals, scientists & engineers, experts in their professional domain. Our laboratory is managed by a highly qualified and experienced group of experts, advisors and philanthropist best in their fields. The Laboratory & its advisers believes in honesty, dedication and commitment by introducing modern techniques to lead and achieve its goal in providing accurate and timely results

Our team member/staff are our great strength and most valuable asset. Our passionate, professional minded people has transformed Alpha Test House is a well trusted Test Lab in the world. Their commitment, deep expertise and passion drive the laboratory's ability to such a great height in short span of time.

We set high standards and performance parameters for ourselves where people can flourish and maximize their potential.

"OUR MOTIVE IS TO PROVIDE QUALITY TESTING WITHOUT ANY COMPROMISE AND MAINTAIN INTEGRITY BEYOND DOUBT"



Mission

ALPHA Laboratory is Committed -

- To provide accurate, reliable and consistent results in testing & support services.
- To Become most credible lab of India as per customer aspiration
- To provide Credible services in IT & Electronic products Nationally and Internationally with reliability.



Vision

- To achieve pan India excellence in testing and related services
- To achieve highest degree of customer satisfaction & confidence
- To keep abreast on latest test facilities meeting the Regulatory Requirement.

2023

WHITE GOODS & HOME APPLIANCES, TEXTILE, METALS, HARDWARE & PVC

2022

FOOTWEAR AND ACCESSORIES

2019

EMI/EMC & RF, TOYS

2016

FOOD & ENVIROMENTAL

2014

IT & ELECTRONICS

2012

ELECTRICAL

2010

CIVIL & CHEMICAL

OUR VALUABLE TESTING RELATES/ASSOCIATED SERVICES



EMI/EMC & RF
Testing/TEC's ER



Durable White Goods &
Home Appliances



IT, Electronic, AV &
Lighting Products Testing



LED Luminaire
Photometric Testing



Toys Testing



Electrical Wire &
Cable Testing



Drone/UAV/UAS
Testing



Footwear
Testing



Water Testing



Road & Highways
Material Testing



Soil Testing & Geotechnical
Investigation



Building
Material Testing



Food Product
Testing



Micro Biological
Testing



Environmental
Testing



Metal & Alloys
Testing



Textile Testing



Flame Retardants
Testing



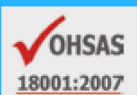
Non-Destructive
Testing



Fertilizer/Neutralizer
& Misc. Testing

Alpha Test House is one of the prominent service providers in the field of Testing Services. Our esteemed organization in a very short span of time have developed a strong cliental across all industries including the Govt. and Non Govt. organizations.

Accreditations



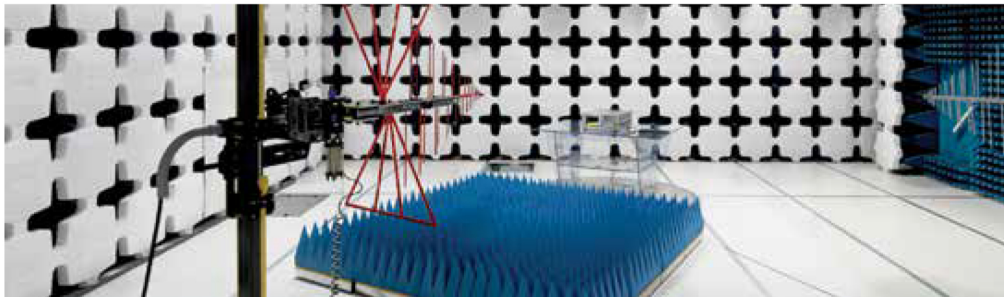
EMI / EMC TESTING

Alpha Test House provides the capacity, proximity and engineering resources to streamline your EMC compliance testing process for any market you aspire to reach:

We offer test services for EMI/EMC As per CISPR & IEC/EN, Safety, RF and Interface testing as per requirement of TEC. We also offer pre-compliance testing services to verify critical components of EMC compliance including radiated/conducted immunity and susceptibility to help ensure your products meet all compliance requirements during the final verification. Our precompliance testing helps you identify product on non-compliance and enable design modification to avoid invaluable delays to market.

TEST Service for product : Industrial, Scientific, Medical, House-hold, Lighting, IT & AV, All Telecomm product covered under TEC, Smart electricity meter as per following standards :

Products	Specification
Conducted and Radiated Emission	CISPR/IEC/EN
Burst/Electrical Fast Transient	IEC/EN 61000-4-4
Conducted Disturbances Induced by RF Fields (CS)	IEC/EN 61000-4-6
Electrostatic Discharge	IEC/EN 61000-4-2
Magnetic Field, Power Frequency	IEC/EN 61000-4-8
Radiated RF Electromagnetic Field (RS)	IEC/EN 61000-4-3
Surge	IEC/EN 61000-4-5
Voltage Dips, Short Interruptions and Voltage Variations	IEC/EN 61000-4-11 & 29



1. RF Testing For Wireless Devices

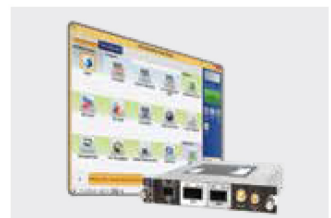
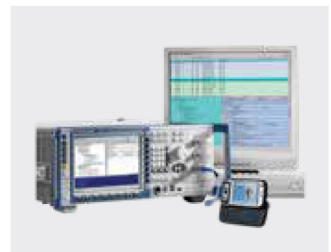
Testing facility covers wideband transmission systems in the 2.4 GHz, 5 GHz & 5.8 GHz bands to verify compliance with ETSI EN 300328 for the 2.4 GHz band, ETSI EN 301893 for 5 GHz band and ETSI EN 302502 for 5.8GHz band.. SRD device as per ETSI EN 300 220-1 & 2, ETSI EN 300 330.

2. Technical Requirement for Cellular GSM/CDMA/HSPA/LTE/LTE-A as per 3GPP and ETSI& TEC

3. Interface Testing for All product as per TEC Specs

We provide conformance testing solution, according to worldwide regulatory & industry standards, for variety of telecom equipment covering Telephones, conferencing equipments, GPON, DSL, digital switches, Routers PBXs and VoIP gateways Alpha lab has testing for PDH (E1/E2/E3/STM-1e), DS3, 2 wire Optical and electrical Ethernet.

**Test Facility for Optical Conformance for products
i.e. Multiplexing, SDH, DWDM, DXC etc:**



DURABLE WHITE GOODS & HOME APPLIANCES

Among Large Appliances in Consumer Durable White Goods in Alpha Test House covers Domestic Refrigerators, Commercial Refrigerators, Deep Freezers, Auto Ice Makers, Bottled Water Dispensers, Bottled/Beverage/VISI Coolers, Refrigerating Display Cabinets, Heat Exchangers, Non-electric Cooling Cabinets. This category also covers Washing Machines, Dish Washers, Microwave Ovens, Dessert Coolers, Cooker Hoods/Electric Chimneys/Cooking Fumes Extractors.

Small Home appliances covers Ceiling Fans, Table/Pedestal Wall mounted Fans, Propeller type Ventilating/Exhaust Fans, Electric Rice Cookers, Induction Cook Tops/Stoves, Vacuum Cleaners & Water Suction. Electricity operated domestic Reverse Osmosis (RO) systems have been also been included in the new scope of testing.

The performance tests of these large appliances also include requirements of Energy Efficiency Labeling/Rating of Bureau of Energy Efficiency (BEE), GoI under Standards & Labeling Program Govt. of India.



Products Category

Domestic Refrigerators (Direct Cool & Frost Free)
Deep Freezers
Commercial Refrigerators
Auto Ice Makers
Water Bottle Dispensers
Bottled/Beverage/VISI Coolers
Refrigerating Display Cabinets
Heat Exchangers
Non-electric Cooling Cabinets
Washing Machines
Dish Washers
Dessert Coolers
Microwave Ovens
Cooker Hoods/Electric Chimneys/Cooking Fumes Extractors
Ceiling Fans
Table/Pedestal Wall mounted Fans
Propeller type Ventilating/Exhaust Fans
Electric Rice Cookers
Induction Cook tops/Stoves
Vacuum Cleaners & Water Suction
Electricity operated domestic Reverse Osmosis (RO) systems

Reference Standard/Specifications

IS 17550 Part-1,2 & 3, IS 1476, IS 15750, IEC 60335-2-24, IS 302-2-24
IS 7872
IS 1474
IS 11328
IS 17681
IS 2167
IS 16672
IS 11329
IS 17693
IEC 60456 & IS 14155, IS 302-2-7, IEC 60335-2-7
IEC 60436
IS 3315
IS 302-2-25, IEC 60705
IEC 61591
IS 374/IS 302-2-80
IS 555 & IS 1169
IS 2312
(IS 302-2-15)
IS 19014/ IS 302-2-6
(IS 302-2-2)
IS 16240

IT, ELECTRONICS, AUDIO, VIDEO & LIGHTING PRODUCTS (BIS-CRS, TEC & OTHER REGULATIONS)

Alpha Test House provides Testing solutions for all the Electronics & IT and Household Products under one umbrella. Alpha Test House is ISO 9001-2015 certified and also accredited from NABL (National Accreditation Board for Testing and Calibration Laboratories) as well as approved by Bureau of Indian Standards (BIS). The laboratory provide Testing of meity notified transmission Electronics Products, IT Products, Household Products as per BIS Specification and other International standards covered under Government of India's notification and other regulation:-

MEITY notified products under CRS

Plasma/LCD/LED TVs/Digital TVs for Satellite Transmission	
Electronic Games (Video)	
Optical Disc Players with built in amplifiers of input power 200W & above	
Amplifiers with input power 200W & above	
Electronic musical systems with input power 200W & above	
Power adaptor for Audio, Video and similar Electronic Apparatus.	
Laptop/ Notebook/ Tablets	Mobile Phones
Wireless Keyboards	Power Bank for use in portable application
Set Top Box	Copying Machines/ Duplicators
Visual Display Units, Video Monitors	Smart Card Readers
Printers, Plotters	Mail Processing Machines/postage machines/franking machines
Scanners	Passport Readers
Telephone Answering Machines	Power Bank for use in portable application
Automatic Data Processing Machines	CCTV Cameras/CCTV Recorders
Power Adaptor for IT Equipment	Smart watches
Cash Registers	Point Of Sale Terminals
USB driven Barcode readers, barcode scanners, Iris scanners, Optical fingerprint scanners	

Lighting & Luminaires Products

Fixed General purpose LED Luminaries
Recessed LED Luminaries
LED Luminaires for Road and Street lighting
LED Flood Lights
LED Hand lamps
LED Lighting Chains
LED Luminaires for Emergency Lighting
Self-Ballasted LED Lamps for General Lighting Services
DC or AC SUPPLIED Electronic control gear for LED Module
Microwave Ovens
Electronic Clocks with main power
UPS/ Invertors of rating <=10kVA
Sealed Secondary Cells/Batteries Containing Alkaline Or Other Non-Acid Electrolytes For Use In Portable Applications (Nickel Systems & Lithium Systems)
INDIAN LANGUAGE SUPPORT FOR MOBILE PHONE HANDSETS

Misc Products

Safety of Medical Electrical Equipment,
Safety of Radio Transmitting Equipment
Audio/video, information and communication technology equipment
Safety requirements for electrical equipment for measurement, control, and laboratory use

Specification

IS: 18112:2022
IS: 616 (IEC:60065:2014)

IS: 13252(Part-1)
(IEC:60950:1:2005)



Specification

IS 10322 (Part 5/Sec 1)
IS 10322 (Part 5/Section 2)
IS 10322 (Part 5/Section 3)
IS 10322 (Part 5/Section 5)
IS 10322 (Part 5/Section 6)
IS 10322 (Part 5/Section 7)
IS 10322 (Part 5/Section 8)
IS 16102 (Part 1)
IS 15885 (Part 2/Sec 13)
IS 302-2-25
IS 302-2-26
IS 16242(Part 1)
IS 16046 (Part 1)
IS 16046 (Part 2)
IS 16333 (Part 3)

Specification

IS 13450-1/IEC60601-1
IEC 60215
IEC 62368-1
IEC 61010

LUMINAIRE AND PHOTOMETRIC TESTING

We at ATH have photometric test facility that covers various Lighting products and Luminaires including TFLs, CFLs, all LED lightings (Bulbs, Street & Flood Lights, Emergency Lamps, Hospital Lights) as well as commercial lightings for Safety & Quality performance tests. The test far as per IS & IEC specifications to cater to the Industry's requirements. The latest installed test facility is accredited by NABL for all the LED Lamps & Luminaires covering LM-79 & IS 16107-2-1 conducted through sophisticated & accurate C-Type Goniophotometer as well as high-tech instrument to conduct performance tests.

Products	Specification
Self Ballasted CFL: Safety & Performance	IS:15111 Part.1 & 2
All types of Luminaires	IS:10322/IEC60598
Self Ballasted LED Lamps-Performance	IS:16102-Part.2& IEC 62612
Solid State Lighting (LED) Products	IS:16106 & IEC/TS 62504
LED Modules for General Lighting Part-2 Performance	IS:16103 (Part. 2)
Method of Electrical & Photometric Measurements of SSL (LED) Product	IS:16106 & LM 79
Luminaires performance Part 2 Particular requirements Section 1 LED Luminaire	IS:16107 : Part 2 : Sec 1



BEE Star Rating Testing (Bureau of Energy Efficiency)

Color TV	Microwave Ovens	VISI/Beverage Coolers	TFL
Computer (Notebook/Laptop)	LED Bulb	Washing Machine	DCR & FFR Refrigerator
Office Eqpt: Printer, Copier, Scanner	Gyser	Side by Side/ Multidoor Refrigerator	High Energy Li - Battery
Inverter	Deep Freezers	Fans: (Ceiling/Table/Wall Mounted/Pedestal/Induction Hob/Stoves)	

TOY TESTING

Alpha Test House is a NABL accredited laboratory for Toys Testing as per IS – 9873 (Part 1,2,3,4,5,6,7,9) and IS 15644.

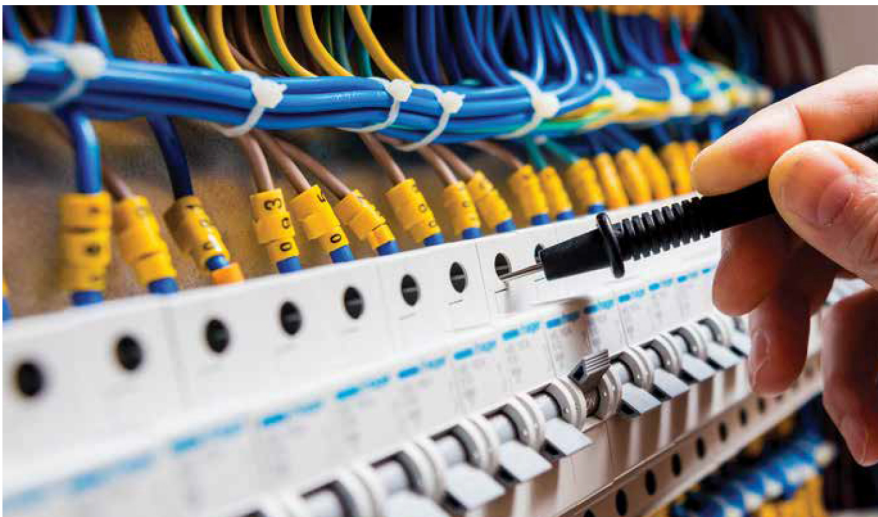
	Standard Toy Testing
Chemical Testing	
Design Review and Evaluation	IS:9873: Safety Of Toys
Endurance and Performance Testing	IS:9873 Part 1: Mechanical & Physical Properties of Toys
Mechanical and Physical Testing	EN 71 Part 2: Flammability of Toys
Safety Testing and more	IS:9873 Part 3: Migration of Certain Elements
	IS:9873 Part 4: Swings, Slides and Similar Activity Toys
	ISO 8124 Toys added parts 7 & IS 9873
	IS:9873 Part 9: Certain Phthalates Esters in Toys



ELECTRICAL WIRES & CABLES TESTING

Alpha Test House Electrical Testing Laboratory is accredited by NABL and BIS. We provide Testing of following electrical products covered under ELECTRICAL WIRE & CABLES & Electrical Home Appliances notified by Government of India under various notifications:

Products	Specification
PVC Insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltages up to and including 450/750 V	IS:694
PVC Insulated (Heavy Duty) Electric Cables for Working voltages up to and including 1100 volts	IS:1554(Part-1)
XLPE Insulated PVC Sheathed Cables for Working Voltage up to and including 1100 volts.	IS:7098(Part-1)
Elastomer Insulated Cables for Working voltage up to and including 1100 volts.	IS:9968(Part-1)
Aerial Bunched Cables for Working Voltage up to and including 1100 volts.	IS:14255
Welding Cables	IS:9857
Shot firing Cables (For use other than in Shafts.)	IS:5950
Aluminum Conductor for overhead Transmission Purposes.	IS:398(Part-1 to 4)
Conduits for Electrical Installations (Rigid plain Conduits of Insulating Materials)	IS:9537(Part-3)
Fitting for Rigid Non-Metallic Conduits	IS:3419
Winding Wires for Submersible motors	IS:8783(Part-3)
Copper Purity	IS:191
Single Phase a.c. Induction Motors For General Purpose	IS:996
Product – Specification for Electric Immersion Water Heaters.	IS:368
Product – Safety of household and similar electrical appliances. (Room Heaters)	IS:302-2-30
Mineral filled sheathed heating elements.	IS:4159



DRONE TESTING


Drones are the flying machines as unmanned aerial systems vehicles (UAS/V); for design, fabrication and maintenance of all the categories of unmanned aerial systems such as nano – up to 250 g, micro – 250 g to 2 kg, small – 2 kg to 25 kg, medium – 25 kg to 150 kg and large – greater than 150 kg MTOW (maximum take-off weight).

Alpha Test House, a cutting-edge facility dedicated to drone testing, facilitates in advancing the capabilities and safety of drone technology Testing. The Alpha Testing plays a crucial role in the development process, focusing on the initial assessment of drone prototypes, operations and their functionalities.


In this controlled environment, Alpha Test House employs rigorous testing protocols to evaluate the performance, reliability, and adherence to flying regulations and standards of the drones. The comprehensive testing includes assessments of flight stability, navigation accuracy, electro magnetic interference, (EMI) obstacle detection and avoidance systems, battery life, and overall durability.

By conducting tests as per IS:18381 Part-1, developers gain valuable insights into potential design flaws, battery life behaviour, software glitches, or hardware limitations that need refinement for air worthiness before reaching the market. The testing process helps identify areas for improvement, ensuring that drones meet or exceed industry standards and regulatory requirements.

UAS Type	Classification
Multi-copter (tri, quad, hexa, octa, etc), including tethered UASs	MC
Fixed wing	FW
Tilt wing	TW
Helicopters	HE
Gyrocopter	GC
Fixed wing multi-copter hybrid (VTOL) including tilt rotor	VT
Others	OT



Power Source	Classification
Battery	B
Fuel cell	F
Internal combustion engine (ICE)	I
Turbine	T
Internal combustion engine (ICE) – Battery hybrid	IBH
Turbine-battery hybrid	TBH
Internal combustion engine (ICE) – Fuel cell hybrid	IFH
Turbine-fuel cell hybrid	TFH
All	A
Any other	X



Provision/Features/Systems/Facilities		
DESIGN REQUIREMENTS	FLIGHT ENVELOPE	CONTROL AND STABILITY
PERFORMANCE	PROPULSION	FUNCTIONS AND SYSTEMS
CYBERSECURITY, DATA, COMMAND AND CONTROL	ALTITUDE SYSTEM	SPEED SYSTEM
ANGLE OF ATTACK SYSTEM	NAVIGATION SYSTEMS	FLIGHT CONTROL SYSTEM
GEO-FENCING	LIGHTS	ENVIRONMENT SENSING AND COLLISION AVOIDANCE
ENERGY MEASUREMENT	LIGHTNING PROTECTION	ELECTRICAL POWER
DOORS AND HATCHES	FLIGHT DATA RECORDING	MOVABLE PAYLOAD (GIMBAL, VIDEO SYSTEMS, ETC)
SMOKE AND FIRE SAFETY	SOFTWARE AND HARDWARE BASED RECONFIGURATION	ONBOARD DIAGNOSTICS
SAFETY REQUIREMENTS	ELECTRONICS INSTALLATION	CARGO TRANSPORTATION
LOGISTICS, STORAGE, RECONFIGURATION	LAUNCH AND RECOVERY SYSTEMS	DESIGN RELIABILITY ANALYSIS
MANUFACTURING AND ASSEMBLY REQUIREMENTS	MAINTENANCE	GROUND HANDLING/SUPPORT SYSTEMS
REMOTE PILOT STATION (RPS)		

Alpha Test House serves as a collaborative hub for drone manufacturers, engineers, and regulatory bodies, fostering innovation and the exchange of knowledge within the drone industry. The facility's commitment to thorough and systematic testing contributes to the development of safer, more reliable, and technologically advanced drones that will shape the future of unmanned aerial vehicles.

Alpha Test House plays a critical role in enabling the future of drone technology by providing a controlled environment for rigorous testing. Through this process, the facility contributes to the refinement and enhancement of drone prototypes, ensuring their air worthiness compliance with safety standards and paving the way for the integration of drones into various industries.

FOOTWEAR TESTING

At Alpha Test House (based in Delhi NCR, India), it undertakes footwear testing to the next level as specified in the Quality Control Order (QCO) on Foot-wears notified under BIS. Our state-of-the-art footwear testing facility is dedicated to ensuring the Quality, Safety, and Performance of footwear and related products. ATH is regularly serving the needs of footwear manufacturers, designers, and retailers to avail the facilities for comprehensive tests that meet industry standards and regulations. Our objective is to provide authentic and reliable test results that inspire confidence in footwear products.

CATEGORIES:	SPECIFICATION
Safety Footwear	IS 15298 -2
Protective Footwear	IS 15298 -3
Occupational Footwear	IS 15298 -4
Sport Footwear	IS 15844
Derby Shoes	IS 17043
Canvas Shoes Rubber Soles	IS 3735
Canvas Boots Rubber Soles	IS 3736
Rubber Hawai Chappal	IS 10702
PVC Sandal	IS 6721
Leather Safety Boots And Shoes For Miners	IS 1989 -1
Leather Safety Boots And Shoes For Heavy Metal Industry	IS 1989 -2
Canvas Rubber Boot For Miners	IS 3976
Industrial And Protective Rubber Knee & Ankle Boots	IS 5557 -1
All Rubber Gum Boots And Ankel Boots	IS 5557 -2
PVC Industrial Boots	IS 12254
Unlined Moulded Rubber Boots	IS 13995
Sleepers And Rubbers	IS 11544
Leather Safety Footwear Having Direct Moulded PVC Sole	IS 14544
Moulded Solid Rubber Soles Heel	IS 5676
Rubber Micro Celluse Sheets For Sole And Heels	IS 6664
Solid PVC Soles And Heels	IS 6719
Footwear For Men And Women For Municipal Scovenging Work	IS 16994
Moulded Plastic Footwear For General Industrial Use	IS 16645
High Ankle Tactical Shoe With PU Rubber Sole	IS 17012
Anti-Riot Shoe	IS 17037
PVC Soles	IS 13893
Leather Safety Footwear Having Direct Moulded Rubber Sole	IS 11226



Alpha Test House is your trusted partner for comprehensive footwear testing services. With a commitment to quality, performance, and customer satisfaction, we provide the testing solutions necessary to bring exceptional footwear products to market. Choose Alpha Test House for reliable, accurate, and efficient testing services that elevate your brand and ensure customer satisfaction.

WATER TESTING

We offer Water Testing Services are well appreciated in the market. Our testing range offers critical solutions for all applications and budgetary profile. We offer all types of water testing such as below.



Category	Specification
Swimming Pool Water As Per	IS:3328
Drinking Water	IS:10500
Construction Water	IS:456
Packaged Drinking Water	IS:14543
Water For Haemodialysis And Related Therapies	IS:13959
Water For Processed Food Industry	IS:4251
Water For Textile Industry	IS:201
Distilled Water	IS:1070
Irrigation Water	IS:2296
Water For Bathing	IS:2296-D
Water For Irrigation & Industrial Cooling Purpose	IS:2296-E
Feed Water For Low/Medium Boiler	IS:10392
Boiler Water	IS:10392 (2.1 To 5.9 Mn/M ² Pressure)
Mineral Water	IS:13428
Inland Surface Water	IS:2490 (Part-1)
Boiler Feed Water	IS:10392 (Upto 2.0 Mn/M ² Pressure)

ROADS & HIGHWAYS MATERIAL TESTING

Alpha Test House offers the high credible quality testing services for a wide range of road materials. Road materials testing services includes bitumen, pavement constituents and others. Aggregate, Bitumen, Job Mix Formula, Concrete Design Mix, Core Cutting etc.

Aggregate: Coarse Aggregate/Fine Aggregate/Stone Dust, Sand

Bitumen: Bitumiues, Asphalt, WMM, GSB, BC, SDBC etc (As per MoRTH)

Job Mix Formula: DBC/ SDBC/ WMM/ GSB

Concrete Design Mix

Soil, Lime, Lime Stone, Bentonite

GSB / WMM: (As Per MoRTH)

Core Cutting



SOIL TESTING & GEOTECHNICAL INVESTIGATION

We provide Soil Analysis and Investigation Testing Services with the team of skilled professionals. Being well-equipped with all the requisite machines and technology, we cater to diversified requirements of the clients as per their varied demands. These services help to diagnose the condition of soil and come up with specific solutions.

Test Conducted	
Chemical Composition of Soil	Physical Test (CBR, PL, LL, Sieve Analysis etc)
Soil Permeability Test	Unconfined Compression Test
Grain size Analysis by Hydrometer	Consolidation Test
Load Bearing Capacity	Soil Investigation Test
C&D Value	
Plate Load Test	

Our Laboratory testing often check for plant nutrients in three categories:

Major Nutrients : Nitrogen (N), Phosphorus (P), And Potassium (K)

Secondary Nutrients: Sulfur, Calcium, Magnesium



Minor Nutrients : Iron, Manganese, Copper, Zinc, Boron, Molybdenum, Chlorine

The Amount Of Plant Available Soil Phosphorus Is Most Often Measured With A Chemical Extraction Method.



BUILDING MATERIAL TESTING

We are delivering an extensive range of building material testing services to our clients, we had successfully finishes many government projects Of CPWD, PWD, DDA, Rites, GDA etc. Laboratory provides accurate results on time with competitive price. We are analyzing the quality of building materials testing on soils, rocks, aggregates, Admixture, Flyash, Masonry, Tiles, Wood, Steel, Aluminum, Bricks concrete, bricks-blocks, steel and polymers, Cement, Concrete, Query stones, coal etc.

CEMENT OPC/PPC fly ash based IS:8112/269/455/1489 OPC/PPC/Slag/White Cement, Flyash Based IS:8112/269/455/1489	DESIGN MIX Design Mix IS:456-10262 SP-23	SAND/AGGREGATE (IS:383/CPWD) SOIL IS:2720
BRICKS & STONE Clay Bricks IS:1077 Fly Ash Bricks IS:13757 Kota Stone IS:1121	STEEL & METALS TMT Steel IS:1786 ISMB, ISMC Plate, Beam IS:2062 G.I Pipe as per IS:1239 M.S. Pipe IS:1161 Bolt Screw & Stud IS:1367,1364, 6649	NON-DESTRUCTIVE TESTING Pile Integrity Testing Ultrasonic Pulse Velocity Test Radiography Test Rebound Hammer Test Magnetic Particle Inspection or Liquid Penetration Ultrasonic Test.
CONCRETE Ratio of cement in Mortar IS: 1199 ACC Block IS:2185 Kerb Stone IS:5758 Paver Block IS:15658	TILES & MARBLES Ceramic Glazed Tiles as per IS : 15622 Chequered/Terrazzo Tiles IS:13801/1237 Vitrified Tiles as per IS:15622	WOOD Plywood, Gypsum Board, Block Board
		PIPES PPR Pipe, HDPE Pipe, PVC Pipe & uPVC Pipe.

FOOD PRODUCT TESTING

Alpha Test House had been approved and authorized for food testing from FOOD SAFETY AND STANDARDS AUTHORITY OF INDIA (FSSAI) is an independent statutory body which has been set up under the Food Safety Standards Act (FSSAI) 2006, and it is under the administrative control of the Ministry of Health and Family Welfare, Government of India (Scope under renewal).

Category of Produces Covered

Oils & Fats Analysis	Oil Seeds And By Products	Meat And Meat Products
Foodgrains, Pulses & Cereal Products	Itea And Coffee Products	Tobacco And Tobacco Products
Infant & Other Supplementary Foods	Fruits & Vegetable Products	Alcoholic & Non Alcoholic Drinks/ Beverages
Spices & Condiments	Bakery & Confectionery Products	Edible Salt
Sugar & Sugar Products	Honey	Animal Feed
Milk & Dairy Products	Nut And Nut Products	Snacks & Ready To Eat Foods
Food Packaging Material Testing	Nutritional Labelling	Food Adulterants Analysis
Food Additives Analysis	Shelf Life Study In Food And Food Products	



MICRO BIOLOGICAL TESTING

Microbiology analysis is offered for food and food ingredients, agricultural products, cosmetics, water, fuels, pharmaceuticals, and many other products and materials. Our services include the analysis of fungi (mold), bacteria (Legionella, E. coli, Salmonella, Listeria, etc), mycotoxins, endotoxins, allergens, pollen and particulates in air, swab, water, soil, bulk, dust, wipe, food and consumer products etc.



MICROBIOLOGICAL TESTING IN FOOD AND FOOD PRODUCTS:

Ecoli	Staphylococcus aureus	Clostridium
Salmonella	Vibrio cholerae	Coliform
Yeast & Mould	Coli form	Coliforms & E. Coli
Campylobacter jejuni	Aerobic Microbial Count	Cryptosporidium
Clostridium perfringens	Algae	Gelatine Liquefying
Listeria monocytogenes	Algae & Mould Spores	Giardia
Shigella	Bioassay	Hetrotrophic Plate Count

ENVIRONMENTAL TESTING

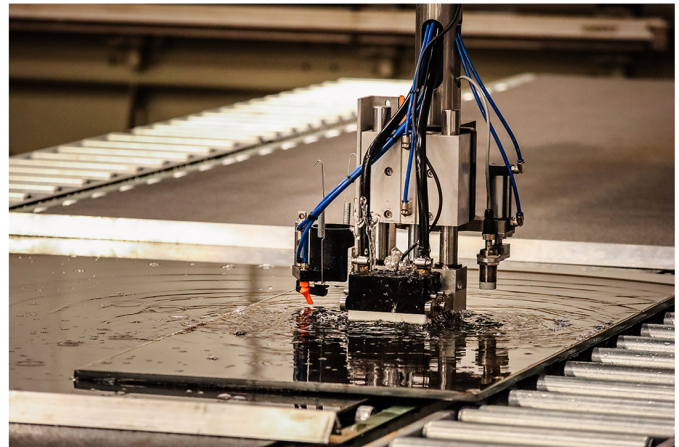
A clean and safe environment is a pre-requisite for health and quality of life. Alpha Test House focuses on delivering analytical services that address current Environmental analysis issues and develops new solutions for challenges that the market and our clients anticipate facing in the future. Our services comprise testing of water, air, soil, waste and other products to assess their quality and impact on health and the environment. We provide full service Environmental consulting & testing services to municipal, industrial, household & private concerns.

Environment Test Conducted

Indoor Air Monitoring	Weather Monitoring
Ambient Air Monitoring	Noise Monitoring
Stack Monitoring	Sludge/Solid Waste

METAL & ALLOYS TESTING

Metal and Alloy Testing is the foundation of Alpha Test House test facilities when it entered into the testing services where Metal and Alloy Testing was one of them. We test and analyze all types of ferrous and non-ferrous metals and alloys, Copper Alloys, Zinc & Alloys, Lead, Aluminium & Aluminium Products, Stainless Steel, Gun Metal including precious metals and powdered metals. All services are performed as per the specified national and International Standards at our one-stop Laboratory in Delhi, The Capital of India.



Alpha Test House provides wide-range of metal testing services and has proven its valuable support to the customers in all aspects of basic metals, fabricated metal products and manufacturing. We support a wide-range of testing services that serve varied industries, including casting, forging, heat treating, plate production, welding & tubing, pipe, bar etc. Chemical Analysis and Corrosion Testing can determine the composition and corrosion susceptibility of metals to aid in material selection. Surface or internal flaws, inconsistencies and discontinuities that occur in basic metals or a component product during manufacturing can be uncovered by various types of testing before problems or failures occur.

Products

Ferrous & Non-Ferrous Metals & Alloys
 Aluminum & Aluminium Alloys
 Lead & Lead Alloys
 Stainless Steel

Categories

Copper & Alloys
 Zinc & Alloys
 Aluminum & Aluminum Products
 Gun Metal & Precious Metals

TEXTILE TESTING

Alpha Test House specializes in comprehensive textile testing services, ensuring the quality and performance of various textile products. Our state-of-the-art facilities and experienced team are dedicated to delivering accurate and reliable results to meet industry standards and regulatory requirements.

Key Highlights: Diverse Testing Capabilities, Quality Assurance, Cutting-Edge Technology, Timely and Accurate Reporting, Customized Solutions, Compliance and Certification, Client-Centric Approach and many more.



List of Products	Specification
Jute Geotextiles Part 1 Strengthening of Sub-Grade in Roads- Specification	14715 Part-1
Jute Geotextiles Part 2 Control of Bank Erosion in Rivers and Waterways- Specification	14715 Part-2
Agro Textiles-Laminated High Density Polyethylene Woven Geomembrane for Water Proof Lining-Specification	15351
Txtl- Resistance to ignition of curtains and drapes-Specification	15741
Txtl- REQS for clothing made of Ltd flame spread materials and material Assy affording protection against heat and flame-Spec	15742
Protective clothing - Clothing to Protect Against Heat and Flame -Minimum performance requirements	15748
Textiles - Resistance To Ignition Of Upholstery Fabrics Used For Non-Domestic Furniture-Specification	15768
High Visibility Warning Clothes	15809
Textiles-Open Weave Coir Bhoovastra-Specification	15869
PVC Geomembranes for Lining-Specification	15909
Geo-synthetics -Geo-Textiles used As Protection (or Cushioning) Materials-Specification	16090
Geo-synthetics -High Density Polyethylene (Hdpe) Geomembranes For Lining-Specification	16352
Geo-synthetics -Geotextiles used in Sub grade Stabilization in Pavement Structures-Specification	16362
Geo-synthetics -Geotextiles Used in Sub-Grade Separation in Pavement Structures	16391
Geo-synthetics -Geotextiles for Permanent Erosion Control in Hard Armor Systems-Specification	16392
Geo-synthetics -Geotextiles used in Subsurface Drainage Application-Specification	16393
Geo-synthetics -Needle Punched Nonwoven Geobags For Coastal And Waterways Protection-Specification	16653
Geo-synthetics -Polypropylene Multifilament Woven Geobags for Coastal and Waterways Protection-Specification	16654
Textiles -Protective clothing for use in welding and allied processes	16655
Textiles -Tactical 3 points sling universal-Specification	16725
Textiles -Pouch for Ammunition and Grenades Made of Disruptive Pattern Nylon 6 6-Specification	16726
Textiles -Protective gloves for firefighters-Specification	16874
Protective Clothing For Firefighters	16890
Textiles -Bullet Resistant Jackets -Performance Requirements	17051
Textiles -Polyester Continuous Filament Fully Drawn Yarn-Specification	17261
Textiles -Polyester Partially Oriented Yarn (POY) -Specification	17262
Textiles -Polyester Staple Fibers-Specification	17263
Textiles -Polyester Industrial Yarns-Specification	17264
Textiles -100 Percent Polyester Spun Grey and White Yarns	17265
Textiles -Viscose Staple Fibers-Specification	17266
Textiles -Water Proof Multipurpose Rain Poncho with Convertibility as Bivouac-Specification	17286
Geo-synthetics -Geogrids for Flexible Pavements- Specification	17371
Geo-synthetics -Polymeric Strip/Geostrip used as Soil Reinforcement in Retaining Structures - Specification	17372
Geo-synthetics -Geogrids used in Reinforced Soil Retaining Structures- Specification	17373
Geo-synthetics -Reinforced HDPE membrane for effluents and chemical resistance lining- Specification	17374
Geo-synthetics -Geocells Part 1 – Load Bearing Application- Specification	17483 Part-1
Geo-synthetics -Geocells -Part 2 – Slope Erosion Protection Application- Specification	17483 Part-2

Alpha Test House stands as a reliable partner for textile testing, offering a comprehensive suite of services with a focus on quality, precision, and client satisfaction. Our commitment to excellence positions us as a trusted resource for businesses seeking to validate and enhance the quality of their textile products.

FLAME RETARDANTS TESTING

Testing flame retardants in Alpha Test House involves evaluating the effectiveness of flame retardant materials or treatments in preventing or slowing down the spread of fire. Here is a general outline of the process:

The term "flame retardant" refers to a function, not a family of chemicals. A variety of different chemistries, with different properties and molecular structures, act as flame retardants and these chemicals are often combined for effectiveness.

Flame retardants provide consumers with a critical layer of fire protection and are vital to reducing the risks associated with fire. Today, flame retardants are used in four major areas:

Flame retardants provide consumers with a critical layer of fire protection and are vital to reducing the risks associated with fire. Today, flame retardants are used in four major areas:

Electronics and Electrical Devices

Flame retardants can enable modern electronic equipment, like television, and computers, to meet fire safety standards and are vital to the safety of hundreds of these products.

Building and Construction Materials

Flame retardants used in a variety of building and construction materials in homes, offices and public buildings, including schools and hospitals, can provide increased fire safety protection.

Furnishings

The addition of flame retardants to the material fillings and fibers used in furnishings helps provide individuals with an extra layer of fire protection and increases critical escape time in case of a fire.

Transportation

From airplanes to cars to trains, flame retardants play a key role in protecting travelers from the devastation of fire.

Flame retardants refer to a variety of substances that are added to combustible materials to prevent fires from starting or to slow the spread of fire and provide additional escape time.



SOME OF OUR SERVICES IN FLAME RETARDANTS (FRS)

Polyborminated Diphenyl ethers

Polybominated biphenyl

Further test on request



NON-DESTRUCTIVE TESTING

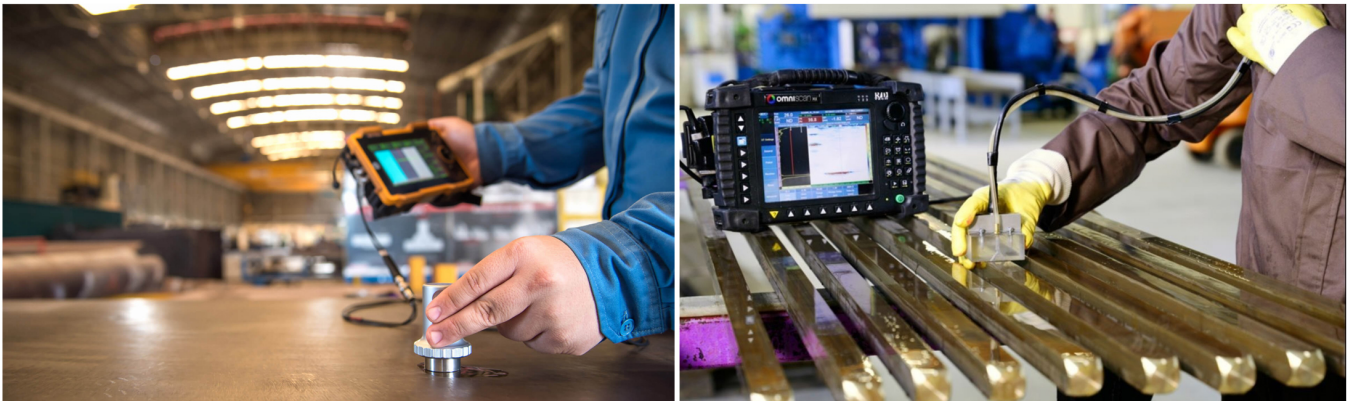
Non-destructive testing (NDT) in Alpha Test House involves assessing the integrity, quality, and properties of materials or components without causing damage to them. Here is a general guide on conducting non-destructive testing in an alpha test house:

The term "flame retardant" refers to a function, not a family of chemicals. A variety of different chemistries, with different properties and molecular structures, act as flame retardants and these chemicals are often combined for effectiveness.

Non-destructive testing is a wide group of analysis techniques used in science and industry to evaluate the properties of a material, component or system without causing damage. Since Non-destructive testing does not permanently alter the article being inspected, it is a highly valuable technique that can save both money and time in product evaluation, troubleshooting, and research.

WE OFFERS A FULL RANGE OF NON-DESTRUCTIVE TESTING (NDT) SUCH AS:

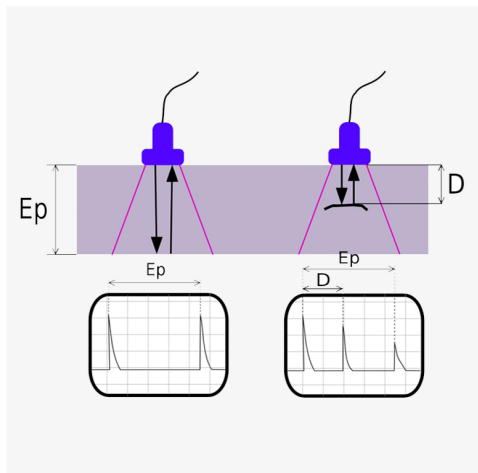
Pile Integrity Testing	Ultrasonic Pulse Velocity Test
Radiography Test	Rebound Hammer Test
Magnetic Particle Inspection or Liquid Penetration	Ultrasonic Test



The non-destructive testing services we offer are designed to comply with a wide variety of industry standards, government contracts, and military specifications, as well as unique customer requirements.

WE ARE SOME USES OF NDE METHODS

- Flaw Detection and Evaluation
- Leak Detection
- Location Determination
- Dimensional Measurements
- Structure and Microstructure Characterization
- Estimation of Mechanical and Physical Properties
- Stress (Strain) and Dynamic Response Measurements
- Material Sorting and Chemical Composition Determination



FERTILIZER/NEUTRALIZER & MISC. TESTING

Alpha Test House test and analyze dry, liquid, and gas based fertilizers, herbicides and pesticides, organic manure. We can ensure that your product meets all government and industry regulations as well as provide further testing and product development services.

Our Group of experienced chemists can assist with product testing and development, reverse engineer a product's formulation, provide the necessary regulatory testing, perform failure analysis services, and help with litigation support services.

Alpha Test House chemical analyst tests your fertilizer, herbicide, or pesticide product for its "Quantitative and Qualitative analysis, Major and trace elemental analysis, Quantitative and Qualitative analysis". Using product reformulation we can recreate and modify your original formulations to develop or redesign your company's product.



OUR LIST OF FERTILIZER & MANURE TESTING SERVICES

Feed grade	Ammonia
Liquid fertilizer	Ammonium nitrate
Phosphate fertilizer	Sulfate Sulfur
Urea	Ammonium Sulfate
Phosphate rock	Particle Size
UAN solution	Available Phosphorous
Potash	Organic Manure
C:N ration	

We provide accurate, cost effective fertilizer testing services in India accordance with international standards to help you gain a competitive advantage. Alpha Test House provides the complete range of analytical testing procedures to meet the requirements of any fertilizer production through the end user.

The company headquartered is in Delhi, India. The laboratory maintained the modern analytical instrument, High-tech sampling procedure, Lab Information Management software (LIMS) and expertise in classical wet chemical analysis.

Alpha Test House offers a wide range of miscellaneous analysis. Please contact our laboratory to discuss about methods which are not listed below for your investigation. The below is our list of products analyzed in miscellaneous analysis:

OUR SERVICES IN MISC. TESTING

Industrial Chemical

Fertilizers

Paint, Enamel, Varnish, Road Marking Paint etc.

PVC Pipes

HDPE Pipe

Rubber & Polymer

Coal & Coke

Third Party Inspection etc.



In order to protect the environment keeping the air quality as clean as possible, exhaust emissions regulation around the world have been strengthened considerably. In motor vehicles with diesel engines, particulate matter (PM) and nitrogen oxide (NOx) emission are the main concern, and efforts have been focused on the development of technology which can reduce them effectively with minimum fuel economy penalty. Selective catalytic reduction (SCR) converters using urea solution as the reduction agent is considered to be a key technology for reducing NOx emissions. The quality of the urea solution used for that technology needs to be specified to ensure reliable and stable operation of the SCR converter systems.



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