

**CERTIFIED
ISO 9001:2015
ISO 14001:2015
ISO 45001:2018**



BOMBAY TEST HOUSE PVT LTD

Testing | Inspection | Certification

www.bombaytesthouse.com

Central Laboratory: Fourth Floor, Unit No. 1,
Banking Complex II, Plot No 9 & 10, Sector 19-A,
Nr. APMC Market 2 , Vashi, Navi Mumbai 400 703. India.

+91 22 4123 9185

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bombaytesthouse@gmail.com

CIN : U74900TZ2011PTC017261

LIST OF SOPHISTICATED ANALYTICAL & INSTRUMENTAL FACILITIES AT BOMBAY TEST HOUSE PVT LTD

Sr. No.	Equipment	Make	Model No./ Specification	Working Principle & Analytical Feasibility
1	GC-MS	Agilent	7890B GC system with Headspace and FID	Pesticide Residue Analysis, Fatty Acid Profiles, Essential Oils and Perfumeries and identification of all volatile compounds
2	HPLC	Agilent	1260 infinity series with DLD, FLD and RI Detector	Vitamins, Amino Acids, Aflatoxin (B1, B2, G1, G2, M1), Naturally Occurring Toxic Substances (NOTS), Sudan I II III IV, Curcumin, Azadirachtin A & B Content in Neem Products
3	FTIR	Agilent	Cary 630	Identification of Unknown Compounds with an In-built library of 100,000 compounds
4	ICP-OES/MS	Agilent	5100	Analysis of Heavy Metals at ppm and ppb levels
5	UV-Vis	Agilent	Cary 100	Colorimetric Analysis
6	Microwave Digestor	Anton Paar	MULTIWAVE GO & MULTIWAVE 5000 50HZ PACKAGE 24HVT50	Digestion of samples across all Industrial Sectors

Branch Laboratories : Salem (Tamil Nadu) | Vizag (Andhra Pradesh) | Ballari (Karnataka)

Accurate Impartial & Reliable Services

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7	Differential Scanning Calorimetry (DSC)	TA Instrument	Q20	Analytical study of phase transitions, such as melting, glass transitions, or exothermic decompositions
8	Thermo-Gravimetric Analyzer (TGA)	TA Instrument	Q50	Analytical study of material(s) characterization through analysis of characteristic decomposition patterns
9	Particle Size Analyzer	Malvern	Mastersizer 2000 / 3000	Distribution of sizes in a sample of solid or liquid particulate material
10	Nuclear Magnetic Resonance Spectroscopy	Bruker	Avance-III HD 400MHz H NMR, C13 NMR (Solvent: Methanol, CDCl3, DMSO, D2O)	Determining the content and purity of a sample as well as its molecular structure
11	Gel Permeation Chromatography (GPC)	Agilent GPC with RI Detector	Agilent LC 1260 with RI detector & GPC SEC software module.	Technique for the determination of the molecular weights and molecular weight distributions of polymeric samples

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12	Ion Chromatography (IC)	Dionex (Thermofisher & Metrohm)	Chromleon (c) Dionex Version 7.2.0.3765 & MagNet IC (Metrohm)	Separation of ions and polar molecules based on their affinity to the ion exchanger.
13	CHNS(O) Analyzer	EuroEA Elemental Analyzer	EuroEA Elemental Analyzer	Estimation of CHN/CHNS/O in percentage level to high concentration level based on the principle of "Dumas method" which involves the complete and instantaneous oxidation of the sample by "flash combustion"
14	BET SURFACE ANALYZER	Quantachrome Instruments	Quantachrome Touchwin NOVA v1.2.2	BET analysis provides precise specific surface area evaluation of materials by nitrogen multilayer adsorption measured as a function of relative pressure using a fully automated Analyzer. The technique encompasses external area and pore area evaluations to determine the total specific surface area in m ² /g, yielding important information in studying the effects of surface porosity and particle size in many applications.
15	Scanning Electron Microscope (SEM) -	QUANTA 200 ESEM & NOVA NANO SEM	30kV ENVIRONMENTAL SEM WITH TUNGSTEN EMITTER COUPLES WITH EDS DETECTOR	Electron Backscatter Diffraction (EBSD) is a scanning electron microscope (SEM) based technique that gives crystallographic information about the microstructure of a sample.

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16	TRANSMISSION ELECTRON MICROSCOPY (TEM)	TECNAI 12 G2 TEM	120kV TEM	The TEM operates on the same basic principles as the light microscope but uses electrons instead of light. Because the wavelength of electrons is much smaller than that of light, the optimal resolution attainable for TEM images is many orders of magnitude better than that from a light microscope
17	PSA + ZETA POTENTIAL	MALVERN INSTRUMENTS LTD	Zetasizer Ver. 7.11 Serial Number : MAL1140143	To estimate the particle size distribution values for nanoparticle suspensions.

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ANALYTICAL SERVICES IN:

Food Products	Agri Commodities	Water and Effluents	Industrial Oils & Petroleum	Glass & Ink
Coal, Coke & Solid Fuels	Ores & Minerals	Metals & Alloys	Plastics, Polymers & Rubbers	Paints, Pigments, Varnish & solvents
Dyes, Acids, Chemicals & Solvents	Gold & Silver Assay and Hallmarking (BIS Recognized Assaying & Hallmarking Centre)	Soaps, Detergents & Toiletries	Microbiological Studies	Cement, Concrete & Building Materials

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Find out more about BTH support services:

GET IN TOUCH:

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