

Delhi Zone

Sl No.	Lab Name	Details of Test Facilities
1	ADRDE	• Bursting Strength Tester
		• Computer Controlled Zwick UTM Machine Capacity 100 kN
		• Computer Controlled Zwick UTM Machine Capacity 150 kN
		• Direct Reading Emission Spectrometer
		• Electronic Air Permeability Tester Model M021A
		• Fabric Inspection Machine
		• Flex Tester
		• Gas Permeability Tester
		• Horizontal Tensile Testing Machine Capacity 10 kN
		• Programmable Washing Fastness Tester
		• Servo Salt Spray
		• Twist Tester Model FY 16
		• XENO test equipment beta +
2	CFEES	• Surface Area Analyser Model No. ASAP 2010
		• Autochem Chemisorb Analyser
		• Surface area and porosity analyser
		• Gas chromatograph
		• Scanning Electron Microscope
		• Izod /Charpy Impact tester with notch cutter
		• Universal testing machine
		• Gas Chromatograph (GC)
		• Gas Chromatograph Triple Quadruple Mass Spectrometer (GC - MSMS)
		• UV - Spectrophotometer
		• Zeta Particle Size Analyzer
		• Atomic Absorption Spectrophotometer
		• Spraytec Particle Sizer
		• Test Facility for characterization of Nozzle
		• Salt Spray Test Chamber
		• External cavity diode Laser
		• Thermal Camera
		• 1m ³ fire Test Chamber
		• Tank millisecond fire suppression facility
		• Extinguishers & Hoses test facility
• Testing of fire extinguishing chemicals		
• Dry Chemical Powder test facility		

		<ul style="list-style-type: none"> • Fire fighting foam testing facility • Fire protective clothing test & evaluation facility • Small Scale MEC determination system • FTIR • Dynamic Pressure Calibrator • Commercial Automated Accelerometer Calibration System • Shock Tube Test Facility • Testing apparatus for fire retardant paint
3	DLJ	<ul style="list-style-type: none"> • Accelerated desert environmental test facility (Solar Simulation) • Acoustic Emission Monitoring System • Advanced Gamma Ray based Computed Tomography System (AGRCTS) • All Gear Head S. S & SC • Alpha Counting System • Alpha Spectrometer • Analytical Balance • Andrex Directional Beam Industrial X ray Tube • Atomic Absorption Spectrometer (AAS) • Atomic Absorption Spectrophotometer (AAS) • Atomic Force Microscopy • ATR-FTIR Spectrophotometer • Automatic Compression Testing Machine • Beta Counting System • Beta, Gamma hand, foot and clothing monitor • Climate Test Chamber • Cobalt Therapy Machine along with Co -60 source of 250 RMM and accessories. • Dielectric Relaxation Spectroscopy System (DRS) • Differential Scanning Calorimeter (DSC) • Digital Gamma Spectroscopy System using NaI detector • Digital Goniometer • Digital Visible Spectrophotometer • Dust Exposure Chamber • Dynamic Light Scattering with Zeta Potential • Dynamic Mechanical Analyzer (DMA) • Electronic Analytical Single Pan Balance Capacity 210 gm • Emission, Absorption, Reflection, Fluorescence optical spectrometer • Emisometer

		<ul style="list-style-type: none"> • Environmental chamber • Extended Area High temperature blackbody • Field Spectroradiometer • FT-IR • Gamma Beta Radiation Spectrometer • Gamma Chamber- 5000 • Gamma Chamber- 900 • Gamma Spectrometry System • Gamma Volt 54100 Camera • Gloss Meter • Hall Effect Measurement System • Heavy duty rotary shaker • High resolution ultraphoto fluorescence microscope • High Resolution X-ray based Computed Tomography Facility (HRX-CTF) • High Temperature Cavity Blackbody Source • High Turbidity Water Purification System • Highly Stabilized X-Ray Machine • HP4145B Semiconductor Parameter Analyzer • Laminar Airflow Floor Model • Langmuir-Blodgett Film Deposition System • LASER Scriber System • LF Impedance Analyzer • Liquid Scintillation Counting System • Logic Analyzer • LRF with Digital Goniometer • Micro hardness tester • Microcentrifuge Timer 12-30 min • Mini Gel Proteian li Cell 10 Well Combs 0.75 MM • Mobile Microspec with Digital Map Overlay • Multi Detector Tomography Facility • Multi parameter Water Quality meter • Neutron Radiography Camera for Cf-252 • Particle Size Analyser • Photodiode Array Spectrophotometer • Photolithography Facility • Portable Flat Panel X- Ray Inspection System • Portable X Ray System • Portable X-ray Imaging System • Positioner System for Radiation Monitors • Potentio Galvano stat with Electrochemical Impedance Spectroscopy
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		<ul style="list-style-type: none"> • Radioisotope Calibrator (Model L981108) • Rain Test Chamber • Raksha Anusandhan And Vikas Irradiator (RAVI) - Gamma Irradiator Facility • Raman Spectroscopy System (Raman Station R3) • Sand Saw Machine • Sanding Machine Vertical • Scanning Electron Microscope with EDS • Scanning Kelvin Probe system • Semiconductor Characterization System • Semiconductor Characterization System (Keithley Model 4200) • Semiconductor Characterization System (Keithley Model 4200) 1 • Spectral Loss Measurement System (SLMS) • Spectrofluorometer • Spectroscopic Ellipsometer • Spectrum Analyzer • Thermal Imaging Systems Facility • Thermal Shock Test Chamber • Thermogravimetric Analyzer (TGA) • Thermoluminescence (TL) Reader • Thermoluminescence (TL) Reader (TL 1009I) • TLD Personnel Monitoring Services, TLD cards, Cassettes and Automatic Reader • Total Organic Carbon Analyzer • Universal Testing Machine 100 KN • UV-VIS Spectrophotometer • UV-VIS-NIR Spectrophotometer • Walk-in Environmental Test Chamber • X-Ray Linear Detector
4	DMSRDE	<ul style="list-style-type: none"> • Chary Izod tester • Chnso Analyser • Cryo Ultra Microtome • Dielectric Thermal Analyzer (DETA) • Differential scanning calorimeter DSC Q 200 • Dynamic Mechanical Thermal Analyzer • Floor standing Twin Bore Capillary Rheometer • Hardness Tester • Low-Vacuum Scanning Electron Microscope • Melt Flow Index Tester

		<ul style="list-style-type: none"> • Modulated Differential Scanning Calorimeter • Radiant Precision Premier II system • Spectroscopic phase modulated ellipsometer, • Thermo gravimetric Analyzer TGAQ 500 • Thermo mechanical analyzer TMA EM 400 • Universal Testing Machine • UV-VIS-NIR Spectrophotometer • Vision measurement system
		<ul style="list-style-type: none"> •
5	DRDE	<ul style="list-style-type: none"> • 600 MHz NMR Spectrometer • Air Permeability Tester • Atomic Absorption Spectrophotometer • Automated DNA Sequencer • Automatic Surface Area Analyzer, Autosorb IQ • Automatic Surface Area Analyzer • Bursting Strength Tester • CCl4 BTT Test Rig & CTC Test Rig • Chns-o-analyzer • CNCI Test Facility • CO Test Facility • COCl2 Test Facility • Combined Temperature and Vibration shaker system • DOP Test Facility • Dry chemical contamination clearance chamber • Flammability Tester • Flash Chromatography System • Four Component Gas Blender mixer • Fourier Transform Infra Red Spectrometer • Gas chromaograph • Gas Chromatograph- Mass Spectrometer • Gas Chromatograph-coupled-Electroantennogram Detector • Gas Chromatography -Mass Spectrometer • Gas Chromatography Mass Spectrometer • Gas Vapor Generator • Gas-Chromatograph Fourier Transform Infrared Spectrometer • GC-MS • HCN test facility • HD BTT Test Facility for Impermeable Samples. • HD BTT Test Facility for Permeable Samples. • High performance Liquid Chromatography

		<ul style="list-style-type: none"> • High Performance Liquid Chromatography system • High Temperature and High Pressure reactor • LC-MS MS • LC-Q-Toff Mass spectrometer • MALDI TOF based BioTyper for Bacterial Identification • MALDI-TOF MS • MALDI-TOF-TOF 4800 • Mandrel Test Facility • Martindale Abrasion Tester • Multi-gas break through time test rig • NBC Suit Fabric Vapour Challenge testing facility • Potentiostat Galvanostat with Electrochemical Electrochemical impedance spectroscopy (Autolab) • Preparative HPLC System • Renishaw Invia Raman Microscope • Rudolph Polarimeter Autopol V • Scanning Electron Microscope Quanta400 ESEM-EDAX with conductive coating units • Standard CWA Vapour generation facility • Tear Strength Tester (Falling Pendulum, Elmendorf Type) • Tensile Strength Tester • TNO-GC Test Facility • Ultra High Performance Liquid Chromatography Coupled with Quadruple Time -of-Flight Mass Spectrometer • UV Visible Double Beam Spectrophotometer • Water Repellency Tester • Water Vapour Permeability Tester • Y-tube Olfactometer
6	SAG	<ul style="list-style-type: none"> • Experimental WAN setup • High performance test facility • Riscure Workstation (inspector tool)
7	SSPL	<ul style="list-style-type: none"> • Cryoprober • Field Emission Scanning Electron Microscope • Fourier Transform IR spectrophotometer with Microscope • FPA Tester • High Resolution X-ray Diffraction • Manual Load-pull measurement facility • Micro Raman Spectrophotometer • Multi-technique surface analysis system

		<ul style="list-style-type: none"> • On-wafer S-parameter measurement facility • Pulsed I-V measurement System • Scanning Probe Microscope • Secondary Ion Mass Spectrometer • Shaker • Stress Measurement System • Wafer Prober • Wafer Prober 1
8	TBRL	<ul style="list-style-type: none"> • Anechoic Chamber • Arena trial layout • Ballistics Test Facility • BAM Fall Hammer Apparatus • CS02 test as per MIL STD 461C • CS06 as per MIL STD 461C • CS114 Test Setup as per MIL-STD 461E • CS115 Test Setup • Differential Scanning calorimeter • Dynamic Mechanical Analyzer • EMI Receiver • ESD Simulator • Evolve Gas Analyser • Facility for measurement of Blast Effect of Free Air Explosion • Four Channel 480 KV Flash X-ray System • Friction Sensitivity Tester • FT-IR spectrometer • Gas Chromatography-Mass Spectroscopy • HD Video camera Recorder with detachable lenses • High Performance Computing Servers • High Performance Liquid Chromatography • High Sped Digital video camera • High Speed Hi-G color Digital video camera system • Image Analyzer (Optical Microscope) • LC-MS • Measurement of Blast Effect of Underwater Explosion • Measurement of Blast Effect of Underground trials • Particle Size Analyzer • Performance Evaluation of Protective Systems • Rail Track Rocket Sled (RTRS) Test facility • RS103 Test Setup as per MIL-STD 461E • Sandpit trial layout

		<ul style="list-style-type: none">• Scanning Electron Microscope (SEM)
		<ul style="list-style-type: none">• Surface Area Analyzer
		<ul style="list-style-type: none">• Thermo Mechanical Analyzer
		<ul style="list-style-type: none">• Under water trial layout
		<ul style="list-style-type: none">• Vacuum Stability Tester
		<ul style="list-style-type: none">• Vertical strawboard trial facility