

Bengaluru Zone

Sl. No.	Lab Name	Details of Test Facilities
1	ADE	• Climatic Test Chamber
		• Combined Temp Altitude & Humidity Test Chamber
		• CS114,CS 115 & CS116 TEST SETUP
		• EMI TEST RECEIVER
		• Fast Temp Change Test Chamber
		• Hot Cold Humidity Camber
		• Mechanical Centrifuge Machine
		• Pneumatic Shock Testing Machine
		• Thermal shock Test Chamber
		• Vacuum Cold-Heat Camber
		• Vibration Test System
2	LRDE	• 1 Ton Vibration Test Facility
		• 3 Ton Shock & Vibration Test Facility
		• 5 Ton Shock & Vibration Test Facility
		• Acceleration Test Facility
		• Acceleration Test Facility with Rotary Joints
		• Active Array Antenna Measurement and Diagnostic Test Center
		• Aircraft Electric Power Characteristics Simulation Test Facility
		• Antenna Test Site
		• Automated Planar Near Field Measurement
		• Driving Rain Test Chamber
		• Dust Test Chamber
		• HALT - HASS Test Chamber
		• Impact Test Facility
		• Near Field Test Range
		• Pulse Current Injection Facility
		• Rain Drip Test Facility
		• SALT Corrosion Test Chamber
		• Semi-Anechoic EMC Test Facility
		• Spherical Near Field Measurement
		• Temperature and Humidity Test Chambers
		• Temperature Cyclic Test Chambers
		• Temperature, Altitude and Humidity Test Chamber
		• Thermal Shock Test Chamber
		• Walk-in Test Chamber
		• Wide Band Radiated Transient Test Facility

3	ANURAG	<ul style="list-style-type: none"> • Emulator
4	CABS	<ul style="list-style-type: none"> • Climatic Chambers • EMI EMC Test Facility • HALT HASS Chamber • Indoor Far Field Measurement Facility • Lightning Test Facility (LTF) • Planar Near Field Measurement (PNFM) Facility • Shock & Vibration Facility
5	CAIR	<ul style="list-style-type: none"> • BeSTORM Dynamic Multi Protocol Fuzzer Tool • Test-bed for static and dynamic source code analysis
6	CVRDE	<ul style="list-style-type: none"> • Altitude Test Rig • AMAGB Endurance Test Rig • Attitude Test Rig • Back to Back Test Rigs for PTO Shaft • Bearing Endurance Test Rig • Bearing Frictional Torque Test Rig • Misalignment Cycle Test Rig Misaligned Rotor check Axial 5 mm Parallel 11.15 mm • Static Thrust Test Rigs • Torsional Fatigue Test Rig • Vibration Test Rig - I (MVH 90C and MVH 200C)
7	DARE	<ul style="list-style-type: none"> • EW Test range facility • Fully shielded indoor antenna test facility • HALT/HASS Test Facility
8	GTRE	<ul style="list-style-type: none"> • 1000 HP cyclic spin test facility. • 10000 PSI Pressure Test Facility. • 150 HP Fuel System Test Rig Facility • 15000 PSI Pressure Test Facility. • 250 HP Fuel System Test Rig Facility • 300 HP cyclic spin test facility. • 3000 PSI Pressure Test Facility. • 30000 Nm Shaft Fatigue Test Facility • 3D Co-ordinate Measuring Machine (MAUSER) • 3D Co-ordinate Measuring Machine (MMZ - G) • 3D Co-ordinate Measuring Machine (MMZ-T) • 3D Co-ordinate Measuring Machine (Prismo Navigator)

		<ul style="list-style-type: none"> • 3D Non Contact laser Scanning System
		<ul style="list-style-type: none"> • 3D White light Scanning System
		<ul style="list-style-type: none"> • 500 HP Fuel System Test Rig Facility
		<ul style="list-style-type: none"> • 565 Nm & 1130 Nm Quill Shaft Fatigue Test Facilities.
		<ul style="list-style-type: none"> • 580 PSI Pressure Test Facility.
		<ul style="list-style-type: none"> • 6 IGPM Hydraulic Power Pack
		<ul style="list-style-type: none"> • 60000 Nm Shaft Fatigue Test Facility
		<ul style="list-style-type: none"> • 650 HP cyclic spin test facility.
		<ul style="list-style-type: none"> • Actuator Test Rig
		<ul style="list-style-type: none"> • Actuator Testing Power Pack
		<ul style="list-style-type: none"> • Air Supply Facility
		<ul style="list-style-type: none"> • Air Turbine spin test facility.
		<ul style="list-style-type: none"> • Air Turbine Starter test rig facility
		<ul style="list-style-type: none"> • Augmented Simulation Rig Facility
		<ul style="list-style-type: none"> • Axial Compressor Test facility
		<ul style="list-style-type: none"> • Bevel Gear Test Rig
		<ul style="list-style-type: none"> • Black Body No.1
		<ul style="list-style-type: none"> • Black Body No.2
		<ul style="list-style-type: none"> • Borescopes (Rigid and Flexible)
		<ul style="list-style-type: none"> • Calibration wind tunnel
		<ul style="list-style-type: none"> • Combustor Test Facility
		<ul style="list-style-type: none"> • Compressed Air Gun
		<ul style="list-style-type: none"> • Compressor test facility - 2
		<ul style="list-style-type: none"> • Compressor test facility - 3
		<ul style="list-style-type: none"> • Data Acquisition System (National Instruments)
		<ul style="list-style-type: none"> • Dilatometer
		<ul style="list-style-type: none"> • Dynamic Spin Rig
		<ul style="list-style-type: none"> • Eddy Current Test Equipment
		<ul style="list-style-type: none"> • Electro Dynamic Shaker System - 6 Ton
		<ul style="list-style-type: none"> • Emissometer
		<ul style="list-style-type: none"> • Engine Casing Structural Test facility for simulation of multi axial loading capability.
		<ul style="list-style-type: none"> • Engine life counter
		<ul style="list-style-type: none"> • Engine test cells
		<ul style="list-style-type: none"> • Environmental Control System Test Facility
		<ul style="list-style-type: none"> • Ethernet Based Pressure Measurement system by Scanivalve.
		<ul style="list-style-type: none"> • First Stage Pump Test Rig Facility
		<ul style="list-style-type: none"> • Flow Calibration System
		<ul style="list-style-type: none"> • Fluorescent Penetrant Inspection System
		<ul style="list-style-type: none"> • Foreign body ingestion test facility.
		<ul style="list-style-type: none"> • Full power absorption test facility for Gas Turbine

		Engine Gear box.
		• Fused Deposition Modelling
		• Gas Analyzer
		• Gas turbine After burner Small scale (1-3rd) test facility
		• Gas Turbine Rotor Blade HCF test facility
		• Heat Transfer Test Facility
		• High speed camera (Photron SA 1.1)
		• Hydraulic dead weight tester
		• Image Analysis System
		• Immersion C-scan Ultrasonic System
		• Industrial Videoscope - Videoprobe image processing system
		• Integrated Nozzle Actuation System Test Rig
		• Lubrication pump test rig (CPSU Test rig)
		• Magnetic Crack Detector with Demagnetizer
		• Mass Flow Rig
		• Nano Indentation System
		• Nozzle Loading Power Pack
		• Online - Exhaust Gas Analyser System
		• Optical Microscope
		• Portable fuel control system test rig facility
		• Qualification Test Facility For Compact Heat Exchangers
		• Radiation Pyrometer System
		• Radiometric Infrared Thermal Imaging System LWIR / MWIR / SWIR
		• Reference standard air, gas operated piston gauge dead weight tester
		• Reservoir Charging Unit (RCU)
		• Residual Stress Measurement
		• Rockwell and Superficial hardness tester
		• Scanning electron microscope
		• Simulation Rig Facility (SRF)
		• Stereo zoom microscope
		• Stereolithography (SLA) - 5000
		• Temperature calibration set-up
		• Thermal Fatigue Test Rig
		• Ultrasonic Flaw Detector
		• Ultrasonic Thickness Gauge (Panametrics 35DL+)
		• Universal Testing Machine
		• Warm Air Turbine Test Facility

		<ul style="list-style-type: none"> • X- Ray system
		<ul style="list-style-type: none"> • X-ray fluorescence (XRF)
9	MTRDC	<ul style="list-style-type: none"> • Auger Electron Spectroscopy System • Bell Type Hydrogen Furnace • Electronic Dynamic Vibration Shaker - Model SEV 060 • Environmental Test Facility • High voltage test bench for TWTs with IEEE - 188 Interface • Network Analyser • Phase Noise Analyzer Model (PN 9100) • Plasma Cleaning System, Type NANO, Sl. No. 80421 • Scanning Electron Microscope • Signal generator E8257DS10 • Spectrum Analyser (PXA) Agilent N9030A PXA • SUNNEN Honing Machine MBC 1805 H • X-ray fluorescence spectrometer
10	NPOL	<ul style="list-style-type: none"> • Acoustic doppler profiler • D33 meter • Digital X Ray Radiography Unit • Floating platform FP Kuravan • High pressure electrochemical work station • Infrared thermography unit • INS Sagardhwani • LMS test lab system • Main Acoustic Tank • Material and transducers simulated test centre • Ocean data centre • Pressure test facility • Vibration test facility