

EMC Lab-iCAT

EMC compliance is intended to avoid malfunctioning of the vehicle and their sub-systems due to electromagnetic interference between the different components and sub-systems and between the vehicle and its environment. NATRiP is in process to establish full fledge EMC homologation lab in the northern automotive hub of India under iCAT, details of EMC Lab at **iCAT-Manesar** are tabulated below:

EMC Capabilities At iCAT

Components	Technical Specifications
VSAC for trucks	
Anechoic chamber	30x20x10m
Main Turntable	5m diameter, 3 tons
Portable Chassis Dyno	4x4 + 2/3W, 120km/h
Equipment	
EMI: Emissions	20Hz - 7GHz
EMS: Immunity	>50V/m 10kHz - 3GHz
Control Room	not shielded
Amplifiers	500W+150W+50W
SAC for components	
Anechoic chamber	7x6x4m
Turntable	1.5m diameter, 500kg
Equipment & Their Use	
EMI: Emissions	homo + basic R&D
EMS: Immunity	homo + basic R&D
Control Room	not shielded
Amplifiers	shared