

Centre of Excellence EMC

EMC term stands for Electromagnetic Compatibility. Vehicles and Electronic Components will be tested in this lab for EMI/EMC. The two principal tests are EMI (Electro **M**agnetic **I**nterference) and EMC (Electro **M**agnetic **C**ompatibility). Under EMI testing the Device under Test (**DUT**) is subjected to an external Electromagnetic Environment, and tested for satisfactory performance. In EMC testing, DUT's Electromagnetic field is tested to be within acceptable limits.

The center is closely located to Chennai and also nearer to Bangalore, due to surrounding by IT-hub where new electronics systems dedicated to the Automotive Industry are developed. The Center of Excellence for EMC lab is proposed at GARC-Chennai.

The center will provide full range of service for homologation and R&D for EMC capabilities. The brief of capabilities are as follows :

- The centre will cover whole range of categories where EMC is mandatory, from component to Heavy Duty vehicles.
- It will meet the demanding OEM standards in terms of field intensity and power.
- Enhance the productivity of each one of the chambers, with automatic orientation system for the vehicles and antennas.

Facilities under EMC Lab :

- 1) **VSAC0**: Shielded Chamber + Hemi-Anechoic for passenger cars, LCV's, Heavy duty vehicles and Buses for electromagnetic emissions and immunity EMI & EMS certification.
- 2) **VSAC1**: _Shielded Chamber + Hemi-Anechoic for 2/3 wheelers for electromagnetic emissions and immunity EMI & EMS certification.
- 3) **CSAC1 & CSAC2**: Future implementation.

Beside above facilities the Lab will equipped with other additional facilities required for preparation, control, storage etc.