

VEHICLE TEST CELL (VTC)





### **CAPABILITIES**

- Automotive BS III to BS VI (2-Wheeler, 3 Wheeler, 4-Wheeler)
- Max Speed Test, Electric Consumption test, Power test, Range test for BOV's
- ▲ Evaporative Emissions Test
- Mileage Accumulation
- Real World Driving Emission Test
- ▲ Fuel Consumption Test
- Development tests at extreme temperatures and solar load







### SPECIFICATIONS OF TEST EQUIPMENTS

### **CLIMATIC VEHICLE TEST CELL**

Mass Emission test at extreme temperatures (-30°C to +55°C) with humidity control and solar loading. Cold startability/Heater performance tests for all types of vehicles including 2W, 3W, 4W and heavy commercial vehicles

### **VEHICLE TEST CELL-1**

150 kW AVL Chassis dynamometer with Pierberg Emission analyzers Mass Emission tests on 2-Wheeler / 4-Wheeler upto BS VI

### **NEW VEHICLE TEST CELL-1**

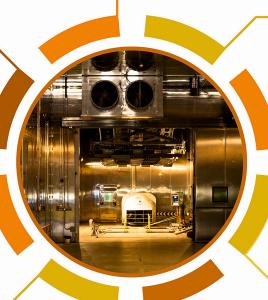
150 kW AVL Chassis dynamometer (4 X 4) with Horiba Emission system Mass Emission tests on 4-Wheeler upto BS VI

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Sealed Housing for Evaporative emission development and certification for 2W/4W Gasoline vehicles as per the Indian, ECE, EPA and CARB regulations.

VV/ VT SHED - Variable
Temperature, Variable Volume SHED system.
Type: Webber EMI Model 101

VV/VT SHED
Movable roof type SHED



## MILEAGE ACCUMULATION CHASSIS DYNO - 1.2 & 3

MACD 1, 2 & 3 with chassis dynamometer of 200 Kw, 160Kw & 55 Kw respectively for running in of vehicles. Capable of robotic driving on Stahle SAP 2000

### **VEHICLE TEST CELL-2**

70 kW AVL Chassis dynamometer with Pierberg emission analyzers Mass Emission tests on 2-Wheeler / 3-Wheeler / 4-Wheeler

#### **NEW VEHICLE TEST CELL-2**

150 kW dynamometer (2 x 4) with Horiba Emission System Mass Emission tests on 4-Wheeler upto BS VI

# PORTABLE EMISSION —— MEASUREMENT SYSTEM (PEMS)

Horiba OBS One capable of conducting mass emission test on road in real world scenario for light duty and heavy duty vehicles. Capable of measuring CO, CO2, NOx, THC and PM along with real time GPS data, environmental data and ECU data









## STANDARDS/ REGULATIONS (NATION AND INTERNATIONAL)

### Testing upto BSVI/Euro VI Standards

### COMPLIANCE

- ▲ NABL
- **→ IMS**
- ▲ TUV- Nord

### LAB ACCREDITATION

- A NABL (ISO 17025:2005)
- ▲ IMS: (ISO 9001:2008, ISO 14001:2004, OHSAS 18001:2007)
- → VCA(UK) -Since 2008

## BENCHMARKING CORRELATION INFORMATION

Correlation with the test labs of major OEMs





# Key projects

- ▲ Development Mass Emission tests on 2-wheeler, 3-wheeler, 4-wheeler
- → Fuel consumption tests
- Cold Start / Heater performance tests on light duty and heavy duty vehicles
- On road mass emission tests using PEMS



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