

## **Fatigue Lab-GARC**

The Fatigue Lab at GARC has capability of homologation as well as basic R&D. The facility is. In view of providing full homologation capability for fatigue in southern automotive hub of country NATRiP has establish fatigue lab at GARC. The facilities of Fatigue lab can be functionally divided in two parts, basic and advance R&D capabilities. NATRiP has established following capabilities for Fatigue Lab at GARC.

### **Basic Fatigue Lab GARC**

<b>Basic Fatigue Lab</b>
<b>Universal Test Benches</b>
<b>Plate benches</b>
<b>5 kN servo-pneumatic</b>
<b>10 kN servo-pneumatic</b>
<b>25kN servo-hydraulic</b>
<b>100kN servo-hydraulic</b>
<b>150kN servo-hydraulic</b>
<b>25/50 kNm servo-hydraulic rotatory</b>
<b>Bench with integrated actuator</b>
<b>Impact test System</b>
<b>Pendulum</b>
<b>Hydraulic Vibration Table</b>
<b>MAST for components</b>
<b>ED Shaker facility</b>
<b>Electrodynamic shakerS with climatic chamber</b>

R&D Capabilities of Fatigue Lab GARC

<b>Complete Vehicle &amp; Sub-Systems Integration</b>
Multipurpose x posters test bench (flexible for 2/3/4/6 posters configuration)
Actuators for up to Passenger Cars
<b>Components &amp; Sub-systems</b>
MAST for components: 6dof + climatic chamber