

## Centre of Excellence NVH

The NVH is the facility which is used for services related to Noise, Vibration and Harshness analysis. There are two types of requirement for NVH analysis first is regulation and second one is R&D. To full fill these requirement for automotive industry **NATRiP proposed centre of excellence for Noise Harshness and Vibration (NVH) at the iCAT-Manesar**. The facility will provide following services for automotive industry:

### Services Provided by NVH Lab:

- **Regulation Related Service:** The homologation required passing by noise test for vehicle which is performed on ISO surface and for developmental noise test is subjected to pass-by noise semi anechoic hall.
- **R&D Related Services:** The homologation requirement for NVH is not much more but the R&D requirement need full fledge facility to provide services for developmental purpose. In view of this the NVH facility will fully capable to offer following services:
  - a. Full vehicle internal and external noise analysis, from 2/3 wheelers to Heavy Duty vehicles and buses.
  - b. Full vehicle squeak and rattle (Often combined with extreme climatic conditions).
  - c. Sub system level NVH services include –
    - Noise transmission losses and noise absorption.
    - Stand alone sub system testing.
    - Engine noise.
    - Transmission noise.
    - Engine + Transmission.
    - Sub system squeak & rattle.