

Passive Safety Lab-ARAI

In order to perform basic R&D and complete homologation at the Western Automotive hub of India in the field of Passive Safety, NATRiP is in process to establish Passive Safety lab at ARAI-Pune . The Passive Safety facility lab has facility for full car crash test, Sled test , Dummy Part propeller, Structural and Environmental test. The details of Passive Safety Lab at **ARAI-Pune** are tabulated below:

Passive Safety Capabilities At ARAI

Component Of Lab	Application		Technical Specification
Block	Homo + R&D		Fix
Propulsion system			3500kg, 80km/h
Main Track rail	Homo + R&D	Full-vehicle crash test and sled test	100m
Main Film pit	basic R&D	Filming of crash tests. Main: offset + frontal, Second: side + rear	yes
Second Film pit	basic R&D		yes
Transparent cover panels	basic R&D		yes
Pole barrier	Homo + R&D		yes
Offset barrier R94			yes
30 degree barrier			yes
Deceleration sled	Homo + R&D		yes
Deceleration system			barrier
Euro side impact barrier R95			yes
Euro rear impact barrier R32			yes
Side impact moving barrier			yes
Rear impact moving barrier			yes
Car barbeque			yes
208 rollover platform			homo + R&D
Data acquisition	Homo + R&D		mid
Indummy solution, 60 ch	basic R&D		yes
High Speed Cameras	basic R&D		9
Mini High Speed Cameras			2
Lighting positioning			manual

<i>Dummies</i>	Homo + R&D	homologation
<i>Sensors</i>		mid
<i>Certification rigs</i>		yes
<i>Static Measurement</i>		yes
Tilt test for buses and coaches	Homo + R&D	Yes
Structural + Environmental loads test cells		Upgrade