

Passive Safety Lab-GARC

GARC-Chennai is situated in close proximity of southern automotive hub of country. The Passive Safety facility lab has facility for full car crash test, Sled test , Dummy Part propeller, Hydraulic test benches, Structural and Environmental load test cell and Tilt test facility. Natrip will be establishing state of art Passive Safety facility at GARC to cater all needs for passive safety under one roof at reasonable price for auto manufacturers in India. The details of Passive Safety Lab at **GARC-Chennai** are tabulated below:

Passive Safety Capabilities At GARC

Component Of Lab	Application Component		Technical Specification
CRASH LAB			
Track			
Block	Homo + R&D		Moveable
Propulsion system			3500kg @ 100 km/h or 2x2000kg @ 70km/h
Main Track rail	Homo + R&D	Full-vehicle crash test and sled test	120m
Second Track rail	R&D	Car-to-car crash test and extra sled capacity	80m
Main Film pit	basic R&D	Filming of crash tests. Main: offset + frontal, Second: side + rear	yes
Second Film pit	basic R&D		-
Transparent cover panels	basic R&D		Yes
Car-to-Car impact			
Angular car-to-car	R&D	moveable second track	upgradable
European standard test equipment			
Pole barrier	Homo + R&D		Yes
Offset barrier R94			Yes
30 degree barrier			Yes
Sled			
Deceleration sled	Homo.+R&D		Yes
Deceleration system			hydraulic system
Euro side impact barrier R95			Yes

Euro rear impact barrier R32	Homo. + R&D	Yes
Side impact moving barrier		yes
Rear impact moving barrier		yes
Car barbeque		yes
Rollover and misuse		
208 rollover platform	homo + R&D	yes
Equipment		
Data Acquisition		
Data acquisition	Homo + R&D	high
Indummy solution, 60 ch	basic R&D	yes
Cameras		
High Speed Cameras	basic R&D	16
Mini High Speed Cameras		4
<i>Lighting positioning</i>		automated
<i>Dummies</i>	Homo + R&D	homologation, R&D, EURONCAP
<i>Sensors</i>		high
<i>Certification rigs</i>		yes
<i>Static Measurement</i>		yes
OTHER FACILITIES		
Pedestrians and occupants protection	Homo + R&D	Yes
Tilt test for buses and coaches		Yes
Hydraulic test benches		Yes
Structural + Environmental loads test cells		Yes
Airbag deployment Lab	R&D	Yes