

## Test Tracks- GARC

The Global Automotive Research Centre situated in the southern automotive hub of India. To fulfil the requirement of complete homologation capabilities five test tracks have to be built by NATRiP with one additional test track named Misuse airbag test track to complement the Passive Safety Centre of Excellence. The details of test tracks proposed at GARC are as follows:

### Technical Details of Test Tracks At GARC

Test Tracks	Technical Specification	Use of Track
<b>Cost-down test straight</b>	<p>Straight for the cost-down test with previous acceleration ramp for type approval</p> <p style="text-align: center;">Length=1800 m Width=20 m</p> <p style="text-align: center;">Should be upgrade in oval circuit.</p>	<p>This track will use for the coast-down test specified in the Regulation.</p>
<b>Test slopes</b>	<p>Hills for homologation purposes with 4 different gradient slopes (6/8%, 12%, 18% and 20%)</p> <p style="text-align: center;">Total area=20000 m<sup>2</sup></p>	<p>The track will be used for the parking braking devices test</p>
<b>Straight line braking</b>	<p>Three different braking surfaces Homologation purposes:</p> <p style="text-align: center;">Low <math>\mu</math> (basalt tiles) 250 m long High <math>\mu</math> (asphalt) 200 m long</p> <p style="text-align: center;">R&amp;D purposes: Low <math>\mu</math> (ceramic tiles) 250 m long</p> <p style="text-align: center;">Total area=51000 m<sup>2</sup></p>	<p>The track will be used for Braking related regulations and R&amp;D.</p>
<b>Steering pad platform</b>	<p>Complete flat surface (0% slope longitudinal and transversal) for steering homologation tests.</p> <p style="text-align: center;">Round shape of diameter 100 m</p> <p style="text-align: center;">Possibility of upgradation to Dynamic Platform.</p> <p style="text-align: center;">Total area=32000 m<sup>2</sup></p>	<p>Track is used in steering effort test.</p>

<b>External noise test</b>	<b>20x20 ISO surface with acceleration and deceleration lanes</b>  <b>Total area=3100 m<sup>2</sup></b>	<b>The track will be used for the permissible sound level test specified in the Regulation.</b>
<b>Airbag misuse track</b>	<b>Different inputs for the calibration of airbag systems on critical driving conditions</b>	