

TEST TRACKS

Dynamic Platform



Diameter: 300 m
Total Length: 1.8 Km
Straight Lane: 1500 m
Tangential Lane: 900 m

Multi Friction Braking Track

Ashphalt, Basalt, Ceramic,
Polished Concrete
Surfaces with Coefficient of
Friction from 0.1 to 0.9 and
Aquaplaning upto 8 mm



Gradient Track



6/8, 12, 18, 20, 24 & 30%
Split section with ceramic tiles
for ASR testing.

Noise Track

As per ISO 1994 & 2014



Handling Track - 2W



Length - 1.5 Km / Width - 5 m
Radii of Curves - 8 to 20 m

Handling Track - 4W



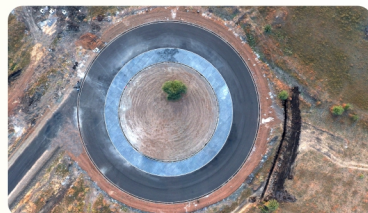
Length: 3.6 km
Width : 8 m
Radii of Curves: 20 to 300 m

Comfort Track

Pave, Concrete, Asphalt,
Wash Board
Smooth / Rough Surfaces of
Pave, Asphalt, Concrete and
Wash board/Cleats/Steps for
NVH Measurements.

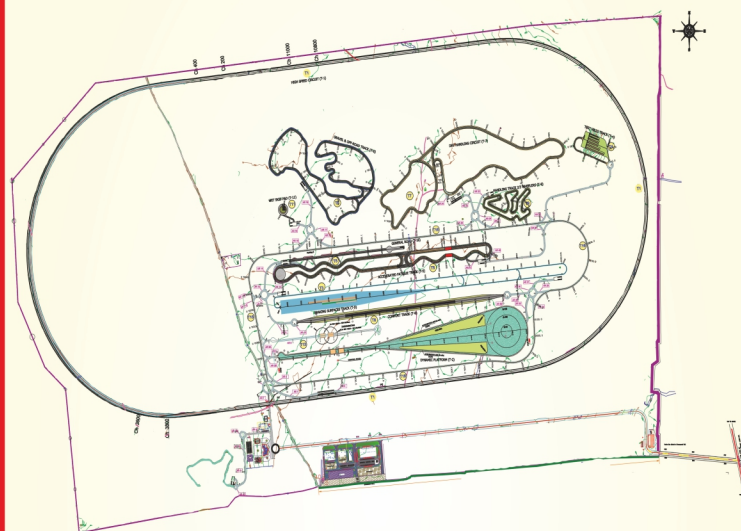


Wet Skid Pad



Ashphalt / Basalt Tiles
Max Radius - 35 m

Master Layout - NATRAX



Fatigue Track



Low Severity for Cars / SUV
High Severity for MUV / Trucks
Low Severity loop of 2 km &
High Severity loop of 1 km.
Total 8 torture tracks with 28
different profiles & Pave track
of 2 km.

Sustainability Track



Circuit on a hill with 8% Gradient.
Length - 800 m
Width - 7 m

Gravel & Off Road Circuit



Total Length of track: 3.5 km
Track Consists of two loops,
i.e., Gravel (Width - 6m) &
Forest / Off Road (Width - 5m),
The off road consists of various
patches like mud track, Village
Road, Twist ditch, Etc.

High Speed Track



Oval Shaped High Speed track of
16m Width.
Total Length of 11.3 Km
Max Neutral Speed: 250 kmph
Max Speed: 375 kmph

**Typical Global High Speed Track.

Vehicle Instrumentation Lab



Data Acquisition System, Speed
Sensors, Steering Wheel Sensor,
Brake Sensor, Fuel Flow Meter.

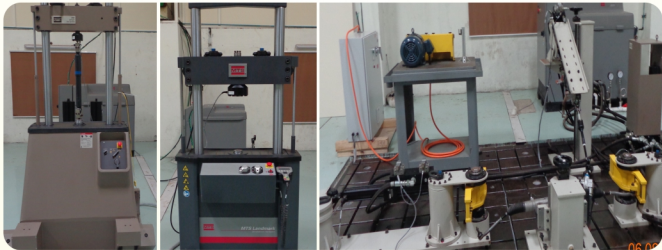
Centre of Excellence VEHICLE DYNAMICS LAB

Suspension Parameters Measuring Machine



Kinematics: Roll, Pitch and Bounce Tests
Compliance: Lateral/Longitudinal Force, Aligning Torque inputs.
Max Axle load: 2200kg
Track Width: 1.1m to 2.2m

Component Performance Test Rigs



Damper Test Rig Load 25 KN Velocity 4 m/s	Elastomer test rig Load 100 KN Frequency 150 Hz	Steering test rig (Durability) Lateral Force 25 KN Steering Torque 150 Nm
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POWERTRAIN LAB

4x4 Chassis Dynamometer For Cars & LCVs



Max Axle Load : 4500Kg
Max Speed : 250 kmph
Roller Dia. : 48 inch
Max Power : 150 kw

Automotive Emission Analyzer

Capable upto Euro-V/ BS-V
(Being Upgraded for Euro-VI / BS-VI)



National Automotive Test Tracks
India

About NATRAX:

Natrax is one of the State - Of - Art Testing and Certification centres of the automotive industries, under NATRIP, a flagship project of Ministry of Heavy Industry, Government of India. It is coming up near the vibrant Industrial township of Pithampur (Dist Dhar, Madhya Pradesh), which is approx 50 Km from the commercial capital of Madhya Pradesh i.e. Indore planned under the last automotive mission plan (2006-2016) launched by Government Of India. It is situated on NH-3 by pass road (Indore - Mumbai). The centre is being developed in approx 3000 acres of land, received from the state of Madhya Pradesh. NATRAX will serve as a comprehensive test facility, and will provide one stop solution for development, Certification and R&D Projects to National / Global automotive and auto component industries through its upcoming proving Ground (Test Tracks) and Centre of Excellence in Vehicle Dynamics.

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For More Details Visit:
www.natrip.in



National Automotive Test Tracks
India



UNDER



National Automotive Testing and R & D Infrastructure Project

Department of Heavy Industry, Ministry of Heavy Industries & Public Enterprises
Government of India