**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 up to 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 - 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

**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.

**Master Layout - Natrix**

**Handling Track - 2W**
- Length: 1.5 km
- Width: 5 m
- Radii of Curves: 8 to 20 m

**High Speed Track**
- Oval Shaped High Speed track of 16m Width.
- Total Length: 11.3 km
- Max Neutral Speed: 250 kmph
- Max Speed: 375 kmph

**Vehicle Instrumentation Lab**
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

POWERTRAIN LAB

4x4 Chassis Dynamometer For Cars & LCVs

Max Axle Load : 4500Kg
Max Speed : 250 kmp/h
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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National Automotive Test Tracks India

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