



TYRE TEST LAB (TTL)

INTERNATIONAL CENTRE FOR AUTOMOTIVE TECHNOLOGY


Tyres, which are critical for vehicle road safety, comfort, and fuel economy, must undergo extensive and rigorous testing to evaluate and assure acceptable performance. ICAT offers world-class Tyre Test Facilities that are run and managed by a highly qualified and experienced team in order to provide quality and timely services to our valued customers.

Tyre Test Lab is providing services to the tyre Industry, vehicle manufactures/OEMs, Bureau of Indian Standards(BIS), Foreign Tyre Manufacturers etc. for Tyre's Testing, Type Approval & COP as per AIS: 037.


CAPABILITIES

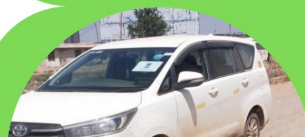
- **Having experience of more than 10 years in the field of Tyre Testing.**
- **All test facilities under one roof ranging from 2W to HCV's.**
- **Having more than 05 Endurance & Load Speed Performance Stations.**
- **India's first lab, offering Tyre Testing/Certification as per AIS:142 under one roof.**




5,500 Tyres Tested
and counting.




1,900 Test Reports
Issued so far.



APPLICABLE STANDARDS / REGULATIONS FOR TYRE TESTING



Indian Standards

IS:15627, IS:15633, IS:1536, IS:13154, AIS:037, AIS:110, AIS:142

European Standards

ECE R 30, ECE R 54, ECE R 75, ECE R 106, ECE R 117 rev2

Gulf Standards

GSO-51, 52, 53, GSO 962(Retreaded Tyres) , GSO- 645,646 & 647, GSO-ECE 75

Rolling Resistance Measurement (Torque Method) as per ECE R117 , AIS & ISO Standards.

Tyre Testing of BIS Samples as per IS:15627, IS:15633, IS:15636.

Tyre Testing as per ECE Regulations and GSO Standards

Testing of Tyres for inclusion in BIS License (for foreign & Indian tyre manufacturers)

Consultancy for setting up Tyre Test Labs.

Benchmarking of tyre performance.



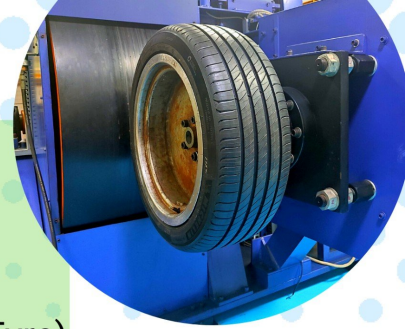
SERVICES BEING OFFERED

SPECIFICATION OF TEST EQUIPMENTS

Testing Facility	Specifications	Parameters
Load/Speed Performance & Endurance Test Rig (06 Nos.)	Reference Standards	IS:15627, IS:15633 , IS:15636
	Maximum Load	150 kN
	Maximum Wheel Rim Size	24"
Endurance Test Rig (06 Nos.)	Reference Standards	IS:15627, IS:15633
	Maximum Load	30 kN
	Maximum Test Speed	350 km/h
Plunger and Bead Unseating Test Rig	Reference Standards	IS:15627, IS:15633 , IS:15636
	Maximum Load	50 kN
	Maximum Wheel Rim Size	24"
Tyre Dynamic Growth Test Rig	Reference Standards	IS:15627
	Maximum Test Speed	300 km/h
	Applicability	2W/3W
Tyre Rolling Resistance Test Rig-C1/C2&C3 (Torque Method)-02 Nos.	Reference Standards	ECE R117 , AIS:142 , ISO:28580
	Load Capacity	65 kN
	Maximum Test Speed	150 km/h

TYRE TESTING FACILITIES

- Load /Speed Performance Test Rig
- Endurance Test Rig (06 Stations)
- Plunger Test Rig
- Bead Unseating Resistance Test Rig (For Tubeless Tyre)
- Tyre Dynamic growth Test Rig
- Tyre Rolling Resistance Test Rig
- Tyre Burst Test Rig



KEY PROJECTS EXECUTED

- Development Projects for long duration Endurance Test have been performed for renowned tyre manufacturer with high precision and accuracy.
- Tyre Cut & Chip Test using Vehicle Fleets on Gravel Road condition.
- Development test for Dynamic Growth of tyres as per customer requirements.
- Tyre Rolling Resistance test for two wheeler, passenger car and heavy commercial vehicle tyres.
- Bulk Tyre Testing (approx 75 Sizes) for foreign Manufacturers (for inclusion in BIS License).



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