



Thailand's Status Report

Update of Domestic Regulations and Testing Facilities

**The 16th Public and private joint Forum in Asian Region
(30th Asia Government/Industry Meeting)**

26 November 2025

Outline

- 1. Related Government Agencies**
- 2. Update of DLT's Regulations**
- 3. DLT's Type Approval System**
- 4. Update of TISI's Regulations and Future Enforcement Plan**
- 5. Update of ATTRIC's Testing Facilities**

Related Government Agencies



Automotive
Engineering
Bureau

DLT

Department of Land Transport (DLT)

- Responsible for the land transport law, motor vehicle law, Vehicle Registration, etc.
- Issue DLT notifications align with UN regulation
- **Approval Authority**
Type approval of Vehicle and installation of equipment or parts



Thai Industrial Standards Institute (TISI)

- National standards development
- Product certification : Voluntary and mandatory certification mark
- **Approval Authority**
Type approval of automotive parts and emission standard



Thailand Automotive Institute (TAI)

- Provide relevant information and direction for government
- **Testing service for technical standards (UN , TISI, DLT)**
- Operate The Automotive and Tyre Testing, Research and Innovation Center (ATTRIC)

Update of DLT's Regulation



Automotive
Engineering
Bureau

DLT



Motorcycle (L3)



UN R28
Audible warning
devices



UN R39.01
Speedometer
and Odometer



UN R41
Noise emissions



UN R53
Installation
of lighting
and light-signaling
devices



UN R78
Braking system
(CBS / ABS)



UN R81
Rear-view
mirrors



UN R136
Electric
powertrain



UN R60
Driver controls,
Tell-tales and
indicators

Enforce 1 Jan 2026

Motor Vehicle Act (MVA)



Passenger
Car (M1)

Pick up
Truck (N1)



UN R13H
Braking system



UN R14
Safety-belt
anchorages



UN R16
Safety-belts



UN R17
Strength of seats,
their anchorages
and head restraints



UN R28
Audible warning
devices



UN R94
Frontal collision



UN R39.01
Speedometer
and Odometer



UN R43
Safety glazing



UN R51
Noise emissions



UN R100
Electric
powertrain



UN R48
Installation of lighting
and light-signaling devices



UN R95
Side collision

Enforce 1 Jan 2028



Bus



UN R3
Retro-reflecting
devices



UN R14
Safety-belt
anchorages



UN R17 or UN R80
Strength of seats, and
their anchorages



UN R43
Safety glazing



UN R100 Part 2
Battery Safety
(Only BEV)

Enforce 1 Jan 2026



Truck



UN R3
Retro-reflecting
devices



UN R43
Safety glazing



UN R55
Mechanical
coupling



UN R58
RUPDs



UN R100 Part 2
Battery Safety
(Only BEV)

Enforce 1 Jan 2026



UN R66
Strength of
superstructure



UN R85
Net power



UN R107
Stability



UN R118
Fire resistance of
interior materials



UN R13
Braking system
(ABS, Endurance Brake)



UN R34
Fuel Tank

Enforce 1 Jan 2028



UN R73
Lateral protection
devices



UN R85
Net power



UN R104
Retro-reflective
markings



ISO 3874
Twistlock



UN R13
Braking system
(ABS, Endurance Brake)



UN R34
Fuel Tank

Enforce 1 Jan 2028

Land Transport Act (LTA)

DLT's Type Approval System (MVA)



Automotive
Engineering
Bureau

DLT

General Requirement for Vehicle

- Dimension
- Power
- Parts and Equipment
 - Seatbelt
 - Lighting and Lighting signalling
 - Safety Glazing
 - ...
 - Sound Level
 - Emission
- Sound Level
- Emission
- ...

For all vehicles registered under MVA

Type Approval System (MVA) for M1, N1, L3

Requirement for Vehicle

M1/N1

- R13H
- R14
- R16
- R17
- R28
- R39
- R43
- R51
- R100

L3

- R28- R39
- R41
- R53
- **R60 (2026)**
- R78
- R81
- R136

Check the compliance of the vehicle's prototype

OK

Requirement for QMS

Opt.1 Actual initial assessment by AA or TS

Opt.2 Certification

- ISO 9001:2015 or
- ISO/TS 16949 - 2009

(the scope of this certification shall cover the product(s) to be approved)

OK

DLT issue
Type Approval
Certificate

Conformity of Production (COP)

Applicant preparing

- Effective control of the conformity of products
- Record test or check results' data (min 10Y)

CHECK

DLT

- Ensure that the relevant controls applied (minimum frequency of once every three years)
- By checking the report /
- May select samples at random to be tested

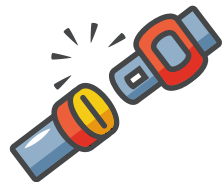
** Only for sale or private use more than (M1, N1 : 3 per type per year)(L3 : 5 per type per year)

All vehicles must undergo "Vehicle Inspection" before registration

TISI's current National Regulations



TIS 2602-2556
Safety glazing
materials for vehicles
(UN R43)



TIS 721-2551
Seat Belts for Automobiles
(UN R16)



TIS 341-2543
Motorcycle exhaust
muffler



TIS 2718-2560
Pneumatic tyres for motor
vehicles
(UN R30)



TIS 2721-2560
Rolling sound emission
adhesion on wet surfaces
and rolling resistance
(UN R117)



Light Duty Vehicle
TIS 3017-2563
Euro 6 : Gasoline
(UN R83)
TIS 3018-2563
EURO 5 : Diesel
(UN R83)



Heavy Motor Vehicle
TIS 3043-2563
EURO 5 : Gasoline
(UN R49)
TIS 3046-2563
EURO 5 : Diesel
(UN R49)



Motorcycle
TIS 2915-2561
EURO 4
(EU 134/2014)



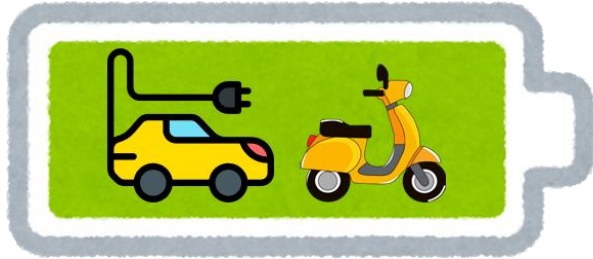
TIS 2719-2560
Pneumatic tyres for
commercial vehicles
(UN R54)
TIS 2979-2562
Retreaded pneumatic tyres
for commercial vehicles
(UN R109)



TIS 2720-2560
Pneumatic tyres for motor
cycles and mopeds
(UN R75)
TIS 683-2562
Inner Tubes for motorcycles
and mopeds

TISI's current Future Enforcement Plan

- EV Battery

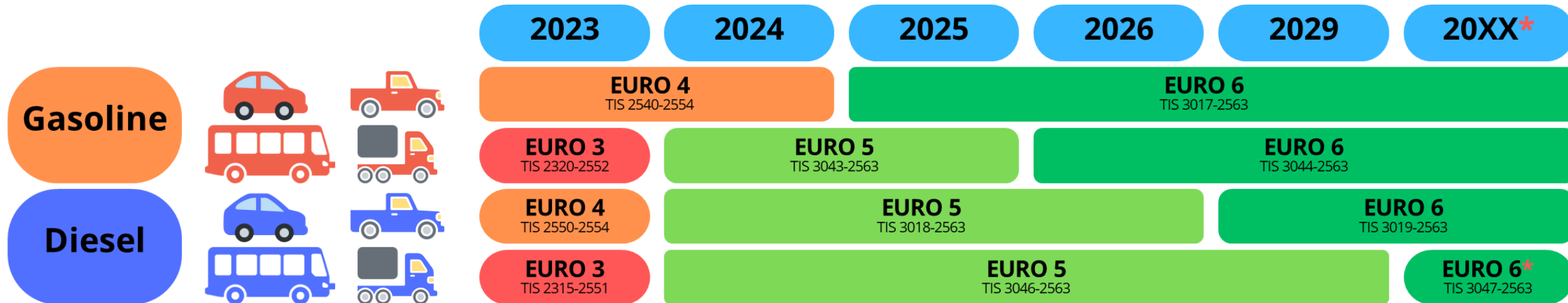


TIS 3026-2563 REESS for electric powertrain of M, N category (UN R100 Part 2)

TIS 2952-2561 REESS for electric powertrain of L category (UN R136 part 2)

Estimate Enforcement : 2026

- Emission



** Note: Under consideration.*

Minimum 2-year transition period; effective no later than 1 Jan 2032



TISI



**THAILAND
AUTOMOTIVE
INSTITUTE**
สถาบันยานยนต์



TISI

ATTRIC

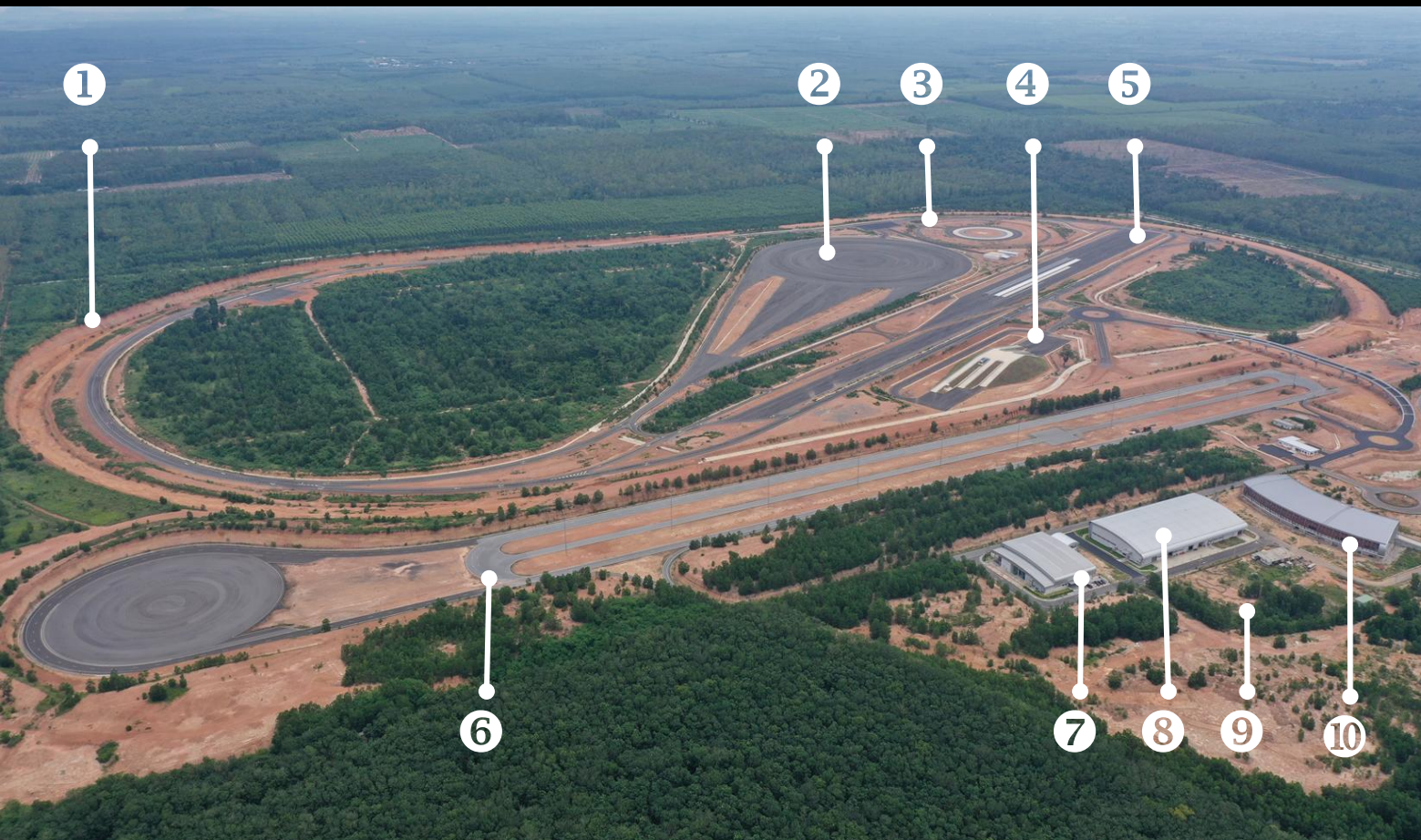
ศูนย์ทดสอบยานยนต์และยางล้อแห่งชาติ
Automotive and Tyre Testing, Research and Innovation Center

Automotive and Tyre Testing, Research and Innovation Center (ATTRIC): Facilities Updated





Automotive and Tyre Testing, Research and Innovation Center (ATTRIC) Sanam chai khet, Chachoengsao, Operated by Thailand Automotive Institute



Test track

- ① High Speed*
- ② Dynamic platform [UN R79]
- ③ Skid Pad [UN R79]
- ④ Park Brake (Hill Test) [UN R13, R13H, R78]
- ⑤ Brake Performance [UN R13, R13H, R78]
- ⑥ Tyre and noise test [UN R117, R41, R51]

Testing laboratory

- ⑦ EV Battery testing [UN R100, R136, UN/DOT38.3]
- ⑧ Tyre and automotive part testing [UN R117 (Tyres), UN R13, R13H (Brake), UN R14, R16, R17, R25 (Seats, Safety belts)]
- ⑨ Vehicle crash test building [UN R94, R95]*
- ⑩ Administration building

**Start construction in 2023 and finish in 2026*

1. Laboratory L1, Tyre and Automotive parts testing

- UN R14, R16, R17, R25 - Seats, Safety belts (Certified)
- UN R117 – Tyres (Category; C1, C2, C3) (Certified)
- UN R13, R13H – Brake test (Category; M, N) (Certified)
- UN R41, R51 – Pass by noise (Category; M, N) (Certified)
- UN R78 – Brake test (Category; L) (Certified)
- UN R79 – Steering System (Category; M, N)

2. Laboratory L3, Electric vehicle battery testing center

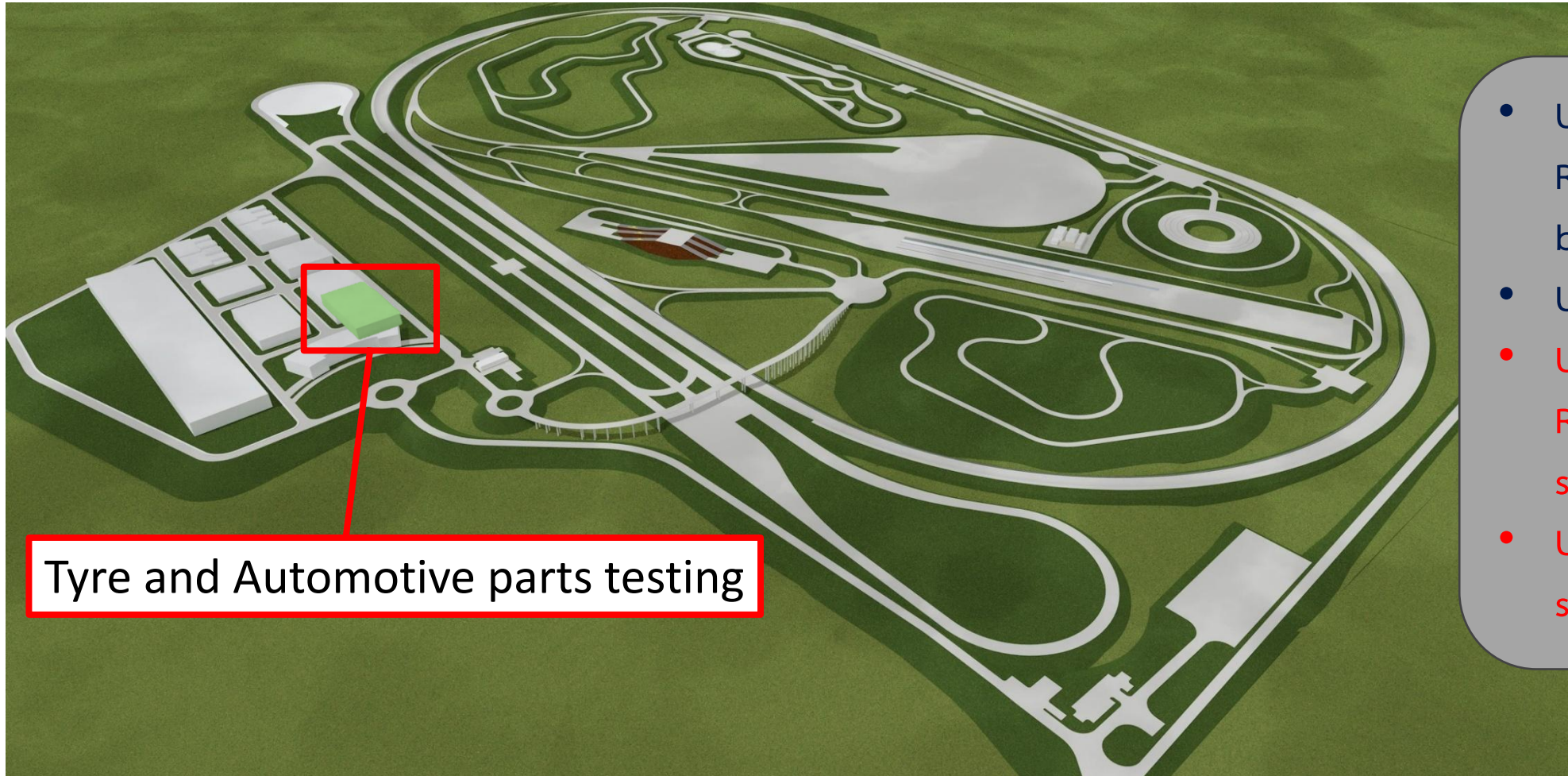
- UN R100, R136 – EV battery (Category; M, N) (Certified)
- UN/DOT 38.3 Battery air transport test (Certified)

3. Laboratory; **Vehicle crash test building (UN R94, R95)** --- *Ready in 2026*

- UN R94, R95 – Crash test

Testing Facilities Updated

L1; Tyre and Automotive parts testing



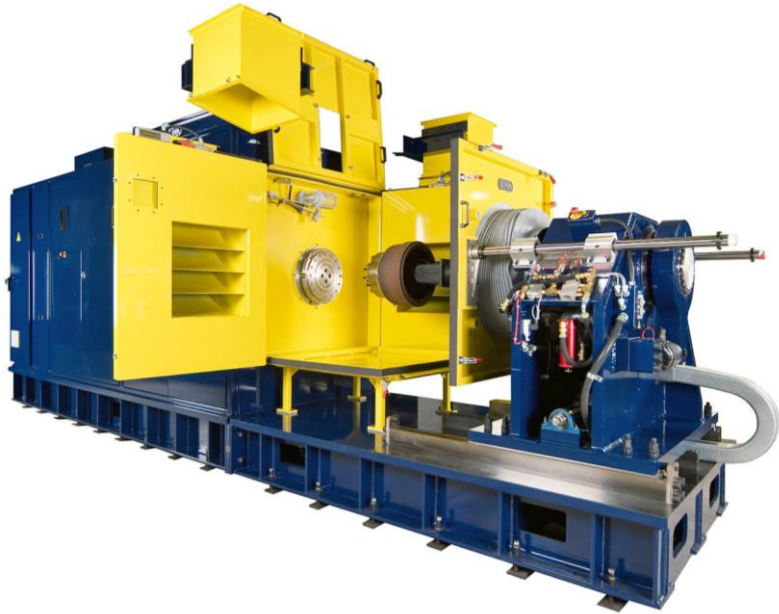
Tyre and Automotive parts testing

- UN R14, R16, R17, R25 - Seats, Safety belts
- UN R117 – Tyre
- UN R90, UN R13, R13H – Brake system New
- UN R79 Steering system New

Testing Facilities Updated

UN-Regulation No. 13, 13-H, 90 Brake performance

- UN R13 (Commercial vehicle)
- UN R13-H (Passenger vehicle)
- UN R90 Brake Parts replacement



Dynamometer



UN-Regulation No. 13, 13-H

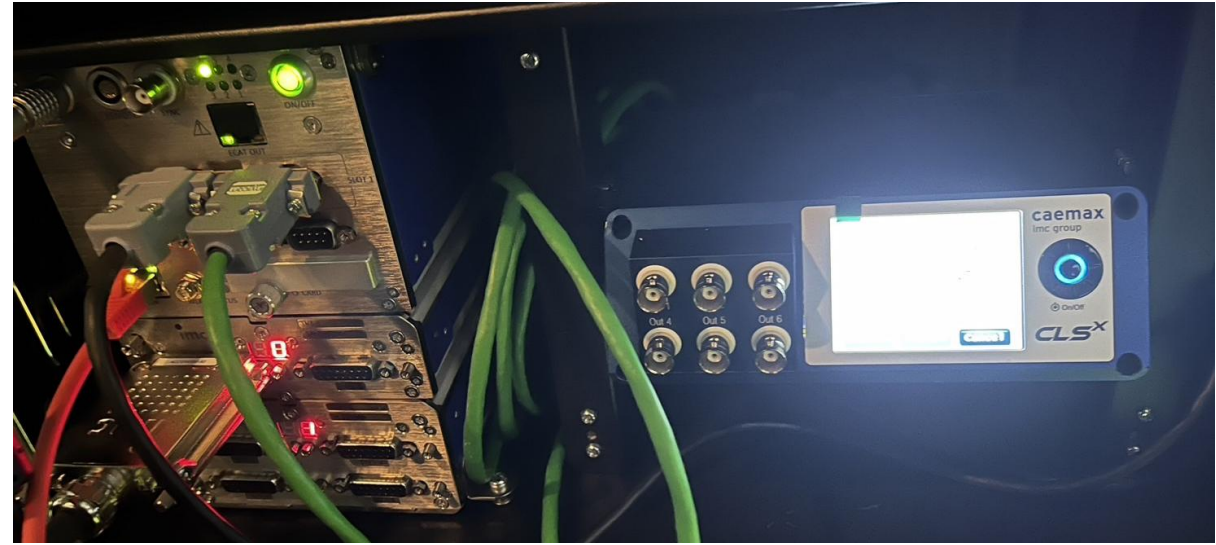
Brake performance

(Data Acquisition, Data Logger)



Testing Facilities Updated

UN-Regulation No. 79
Steering Effort



Scope of Services UN/DOT 38.3



Basics of Safety Requirements for the Transport of Lithium Batteries
"ข้อกำหนดพื้นฐานด้านความปลอดภัย
สำหรับการขนส่งแบตเตอรี่ลิเทียม"



The cell, pack, module battery



T1 : Altitude
Simulation test



T2 : Thermal shock test



T3 : Vibration test



T4 : Mechanical shock test



T5 : External short circuit



T6 : Impact/Crush test

protection test



T7 : Over charge protection test



T8: Forced Discharge test

Testing Facilities Updated

Vehicle crash test building



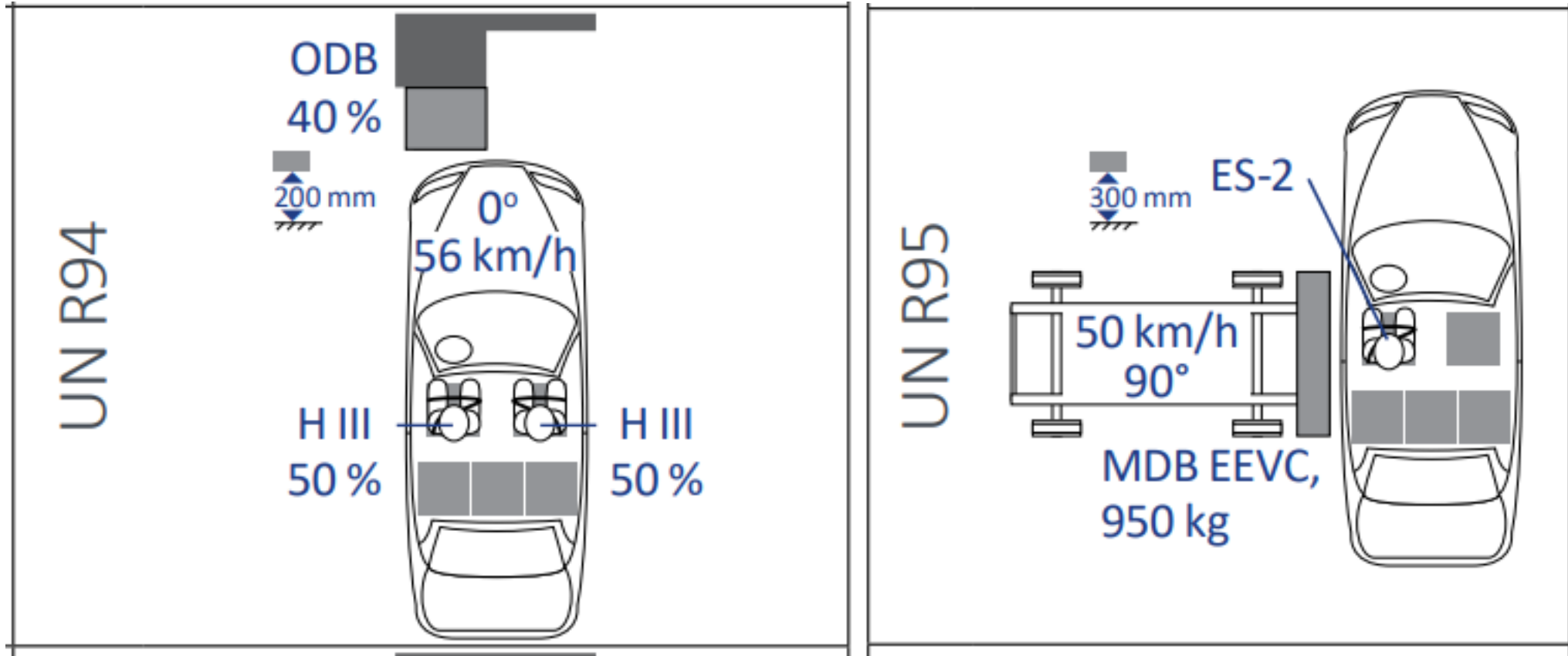
Tyre and Automotive parts testing

New

- UN R94
- UN R95

Ready in Q2 2026

UN R94, R95



UN R94, R95

start construction in 2024 / finish in 2026

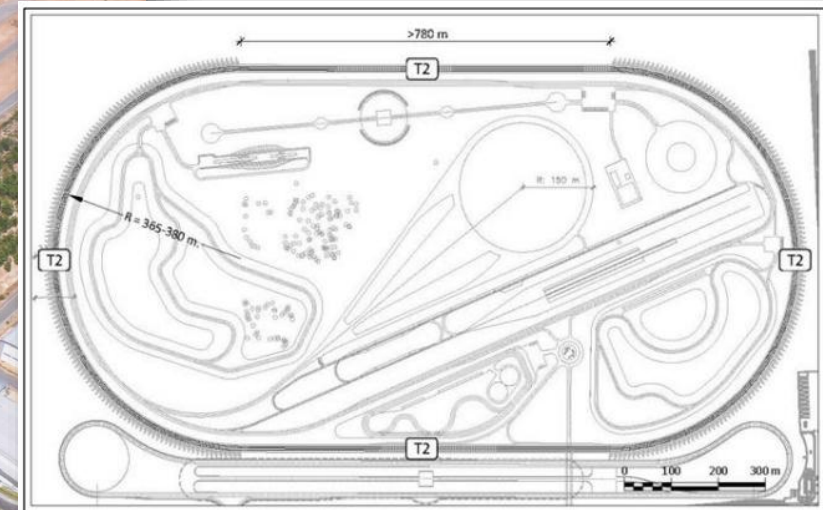
UN R94, R95



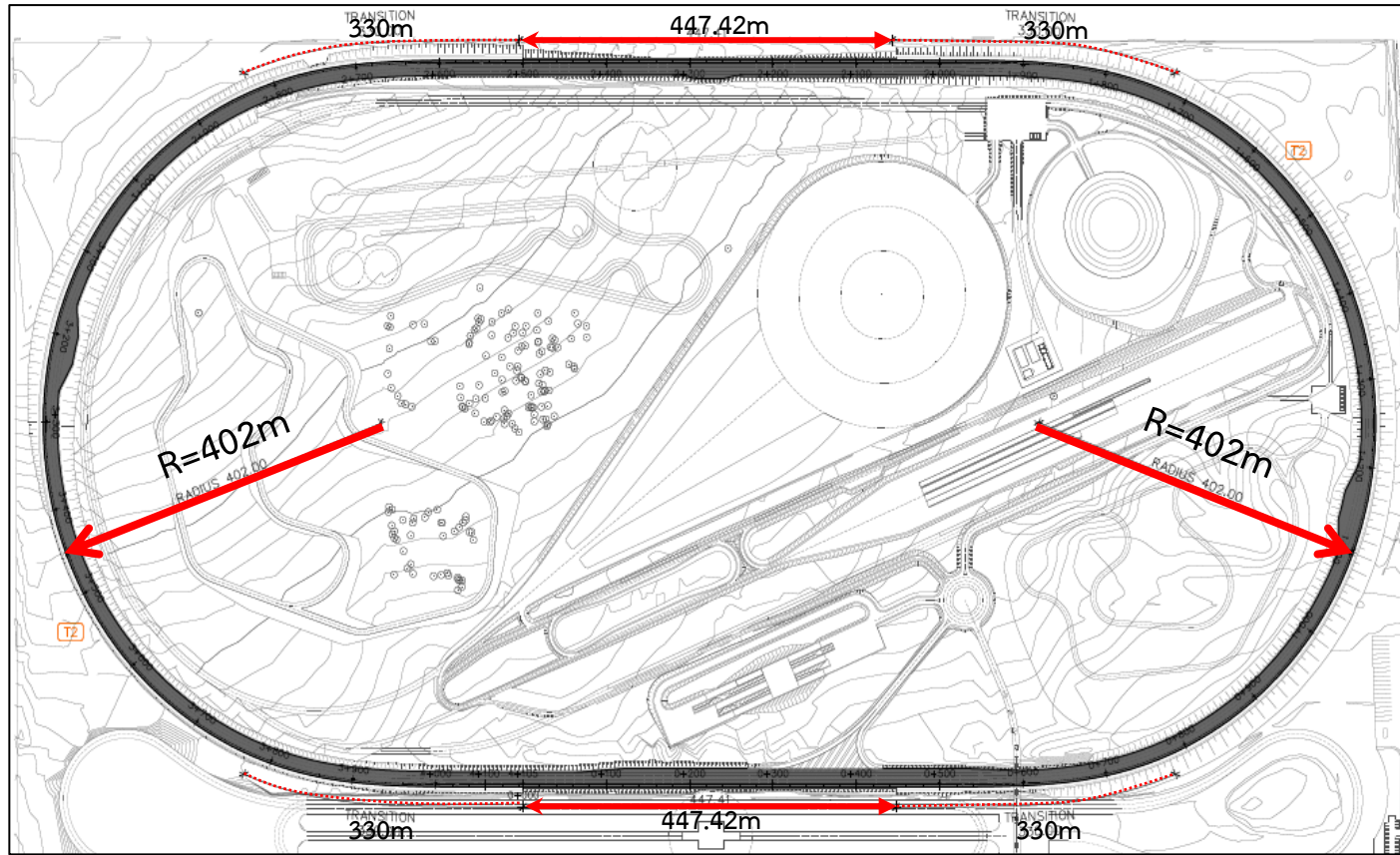
Testing Facilities Updated

Long Distance and High Speed Track

Ready in Q1 2026

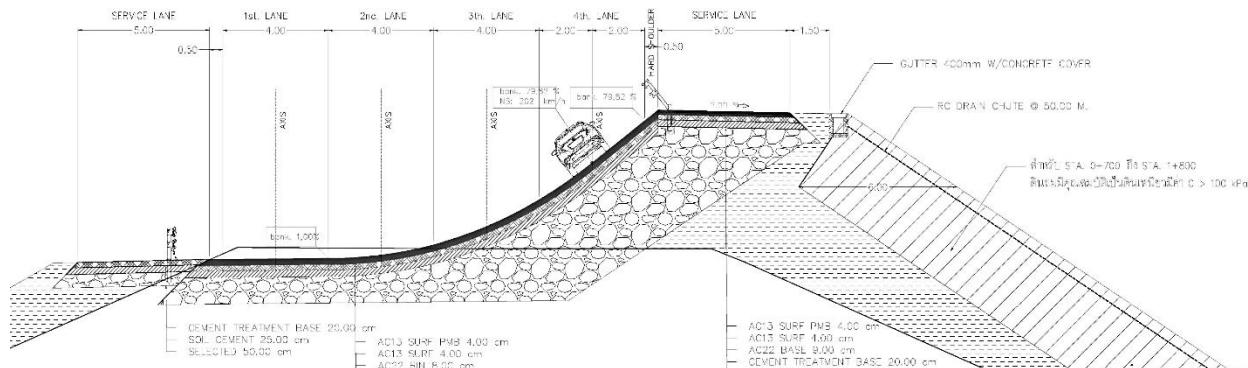


Performance and High Speed test track (T2, Long Distance and High Speed Track)



Topic	Parameter	Value
General	Total Length	4,104.6 m.
	Width	16 m.
	Lanes	4 lanes
	Radial Range	386 m.
Curve	Radius (Outer Lane)	402 m.
	Total Length	1 to 79.82%
	Width	16.5 m
	Neutral Speed	202 km/hr
	Length	1,212 m.

- There are 4 lanes 16 m. wide. The neutral speed is 202 km/h.
- The straight is 840 m long (including the Transition zone).
- Banked curves are 79.82% gradient (71.84 degree)



Thank You

For more information, please contact :

- Department of Land Transport (DLT)
 - Email : vsd@dlt.mail.go.th / vsd.aeb@gmail.com
 - Tel. : (+66)2 271 8609
- Thai Industrial Standard Institute (TISI)
 - Email : korn@tisi.mail.go.th
 - Tel. : (+66)2 430 6828 #1780
- Thailand Automotive Institute (TAI)
 - Email : chutipong@thaiauto.or.th
 - Tel. : (+66)2 712 2414, (+66)2 324 0710
 - Website : www.thaiauto.or.th