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24th – 25th November 2022

Bali, Indonesia

Country Report (Current Activities under VTA Procedure in Malaysia)

AUTOMOTIVE ENGINEERING DIVISION

ROAD TRANSPORT DEPARTMENT (JPJ)

MALAYSIA

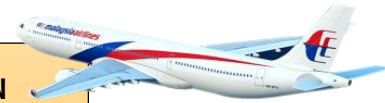
Introduction



LAND
DIVISION



AVIATION
DIVISION



MARITIME
DIVISION



ROAD TRANSPORT DEPARTMENT (JPJ)

Regulator or Approval Authority for regulate the technical specification and policy of motor vehicle including driver licence and vehicle registration. As enforcement body on motor vehicle and driver.

MIROS

MALAYSIA INSTITUTE OF ROAD SAFETY RESEARCH

ASEAN ROAD SAFETY CENTRE

MALAYSIA INSTITUTE OF ROAD SAFETY RESEARCH (MIROS)

To conduct comprehensive research on road safety, and to provide general directions for activities in respect of road safety research.

Introduction of VTA in Malaysia

Vehicle Type Approval (VTA) is **mandatory procedure** for each **new model of motor vehicle** before it **marketed and use** in Malaysia

motor vehicle

as classified in the **Section 5, Road Transport Act 1987 :-**
(Motorcycle, motor car, heavy motorcar, tractor, mobile machinery etc)



Section 7, Road Transport Act 1987 :-
No person shall possess or use a motor vehicle unless that vehicle is registered.



Section 15, Road Transport Act 1987 : No person shall use or cause or permit to be used a motor vehicle on the road in respect of which there is not in force a **motor vehicle licence** granted



Introduction of VTA in Malaysia

- ❑ **Road Transport Department (JPJ)** is a lead agency as **Type Approval Authority** which is responsible on the implementation of Vehicle Type Approval (VTA) in Malaysia according to Road Transport Act 1987.



Vehicle safety

Road-worthiness



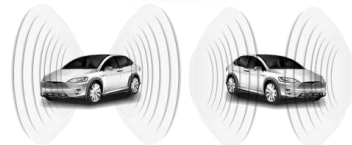
Crash-worthiness



Protection against unauthorized use



Electro-magnetic compatibility (EMC)



Vehicle pollution

Exhaust Emission



Noise



Introduction of VTA in Malaysia

The micromobility vehicle are NOT MANDATORY under the VTA procedure, as follow :-

Classification is
based on the
Malaysia`s
perspective

Classification of micromobility vehicle (below 50km/h)

High speed vehicle (up to 50km/h)

Moped
(ICE or electric powered)



low / medium speed vehicle (up to 25km/h)

**Bicycle and Electric
Bicycle (e-bike)**



Personal Mobility Device (PMD)



Note : all micromobility vehicle under categories moped and PMD are prohibited to be used on any gazette road.

Standard Mandatory Compliance of Motor Vehicle

- ❑ **UN Regulations (UNRs)** and **Malaysian Standard (MS)** as the main benchmark of mandatory standard compliance under the national VTA procedure;
- ❑ Malaysia has **fully adopted and harmonised the type approval framework established under the 1958 Agreement** through national type approval system in order to prevent of issues related to technical barrier to trade (TBT);

A. UN regulations : **113 UNR**

B. Malaysian Standard (MS) : **12 MS**



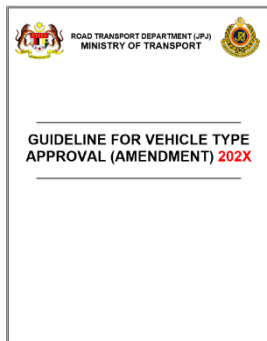
Current Activities related to VTA in Malaysia



- ☐ To ensure systematic governance mechanism
- ☐ of VTA in Malaysia;
- ☐ To increase the safety features of new vehicles in line with current global technology and new UNRs;
- ☐ To support the aspiration under the UN Decade of Action for Road Safety 2021-2030 : ***Improving Global Road Safety with a target to reduce road deaths and serious injuries by 50% by 2030.***



1. Development of new revision VTA Guideline



2. Implementation of new UNRs



3. Domestic consultation to introducing the new structure of VTA fee



4. Mandatory ABS for new model motorcycle



Current Activities related to VTA in Malaysia

Status of development the new revision VTA Guideline

Three revisions VTA Guideline have been issued so far:-

- ☐ VTA Guideline (Amendment) 2013;
- ☐ VTA Guideline (Amendment) 2015;
- ☐ VTA Guideline (Amendment) 2017;
- ☐ **VTA Guideline (Amendment) 20XX**

Note : the guideline VTA (2017) can be downloaded via www.jpj.gov.my

Contents of the VTA Guidelines

1. List of UN regulations & MS compliance;
2. Categories of motor vehicles;
3. Process flow of the application;
4. List of required documents / Application checklist;
5. Other requirements, e.g. COP.

New
revision

- ☐ To introduce in English version;
- ☐ Update / review on mandatory standard compliance;
- ☐ Enhancement conformity arrangement framework and compliance;
- ☐ Review the monitoring mechanism of type approval.



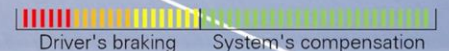
Target to be
released by Q1 2023

Current Activities related to VTA in Malaysia

Implementation of new UNRs under VTA procedure

- ☐ Propose to implement the additional new 13 UNRs under VTA procedure;
- ☐ In process to conducting domestic consultation to gathering the initial feedback;

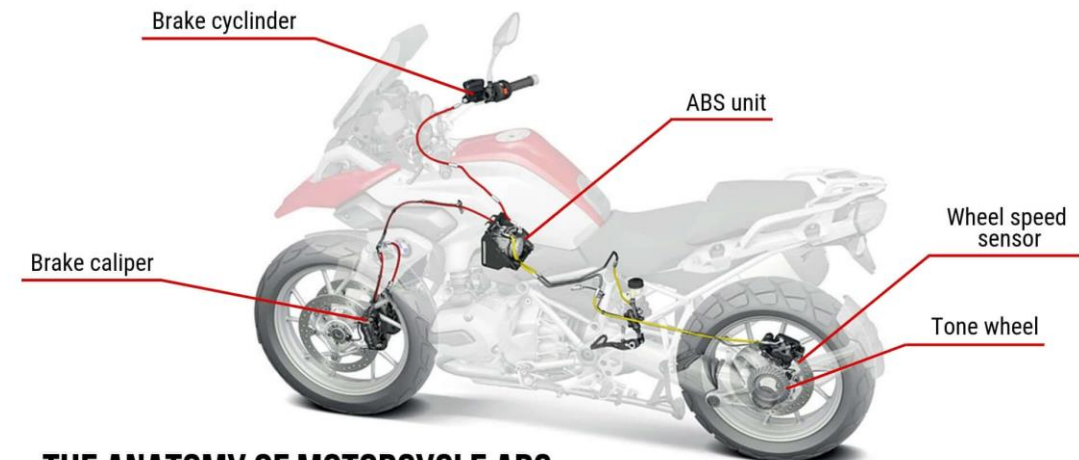
No.	UN Regulations (UNR)	
1.	R134	Hydrogen and fuel cell vehicles (HFCV)
2.	R139	Brake Assist Systems (BAS)
3.	R141	Tyre Pressure Monitoring Systems (TPMS)
4.	R144	Accident Emergency Call Systems (AECS)
5.	R145	ISOFIX anchorage systems, ISOFIX top tether anchorages and i-Size seating positions
6.	R146	Hydrogen and Fuel Cell Vehicles of category L
7.	R148	Light Signalling Devices (LSD)
8.	R149	Road illumination Devices (RID)
9.	R150	Retro-reflective Devices (RRD)
10.	R152	Advanced Emergency Braking System (AEBS)
11.	R155	Cyber security and cyber security management system
12.	R156	Software update and software updates management system
13.	R157	Automated Lane Keeping Systems (ALKS)



Current Activities related to VTA in Malaysia

Implementation of mandatory installation the Anti-lock Braking System (ABS) for motorcycle

- ❑ Mandatory for **new model** of motorcycle which engine capacity **more than 150cc starting from 1st January 2025** including electric motorcycle;
- ❑ conducting domestic consultation to finalized the mechanism of compliance under VTA procedure.



THE ANATOMY OF MOTORCYCLE ABS

* Image courtesy of RideApart

**THE END
THANK YOU**

AUTOMOTIVE ENGINEERING DIVISION
ROAD TRANSPORT DEPARTMENT (JPJ)
MALAYSIA