The 10th Public and Private Joint Forum In Asian Region
The 24th Asia Government / Industry Meeting
and
The Government Meeting
(December 3-5, 2019, Malaysia)

Country Report on 'Recent situation of the measures related to vehicle safety and environment'

India

India's Progress in Automobile Sector

➢ Indian Automobile Industry

- 2/3 Wheeled Vehicles, Passenger Cars, Multi Utility Vehicles (MUV), Light and Heavy Commercial Passenger and Goods Vehicles, Agricultural Tractors, Construction Equipment Vehicles (CEV) etc. and business potential is increasing.
- Vehicle Industry is very well supported by Component Industry.

➢ Automotive Mission Plan (AMP) 2016-26

- Vision Statement AMP 2026: 'Vision 3/12/65'

  By 2026, Indian Automotive Industry will

  - Be among TOP 3 in Engineering, Manufacture and Export of vehicles and auto-components.
  - Encompasses Safe, Efficient, Environment friendly and Affordable Mobility.
  - Grow in value to over 12% of India's GDP generating additional 65 million jobs.

India's Progress in Automobile Sector

➢ Make in India Campaign

- Launched by **Hon'ble Prime Minister, Shri Narendra Modiji,** this program is designed for **transforming India** into a vibrant economy and global manufacturing hub
- **Twenty Five Sectors** identified as **Priority Areas**, including Automobile
- Includes major new initiatives designed to **facilitate investment, foster innovation, protect intellectual property and built best in class Manufacturing Infrastructure**
- **The campaign has generated lot of interest and manufacturers from around Globe are taking advantage of the same.**

➢ Traffic situation in India

- To meet rapid growth in automotive sector and mixed traffic plying on roads, development of required infrastructure, highways are in progress to ensure safe transport
- Intelligent Transport System (ITS) suitable to Indian situation is under discussion

➢ Encouragement for use of alternate fuels/technology for fuel efficient and clean road transport:

- EVs/HEVs under National Mission for Electric Mobility, FAME scheme (Faster Adoption and Manufacturing of Electric and Hybrid Electric Vehicles), use of flex fuel Ethanol, Bio-CNG, Bio-Diesel, LNG as automotive fuel etc.

Regulatory Mechanism - Stakeholders

Government of India

MORTH
Ministry of Road Transport & Highways

MOHI
Ministry of Heavy Industries & Public Enterprises

MOEF
Ministry of Environment & Forests

Ministry of Consumer Affairs

DGFT
Director General Foreign Trade

State Ministries

Standardization

CMVR-Technical Standing Committee

Automotive Industry Standards Committee-AISC

Standing Committee on Emission Legislation-SCOE

Bureau of Indian Standards-BIS

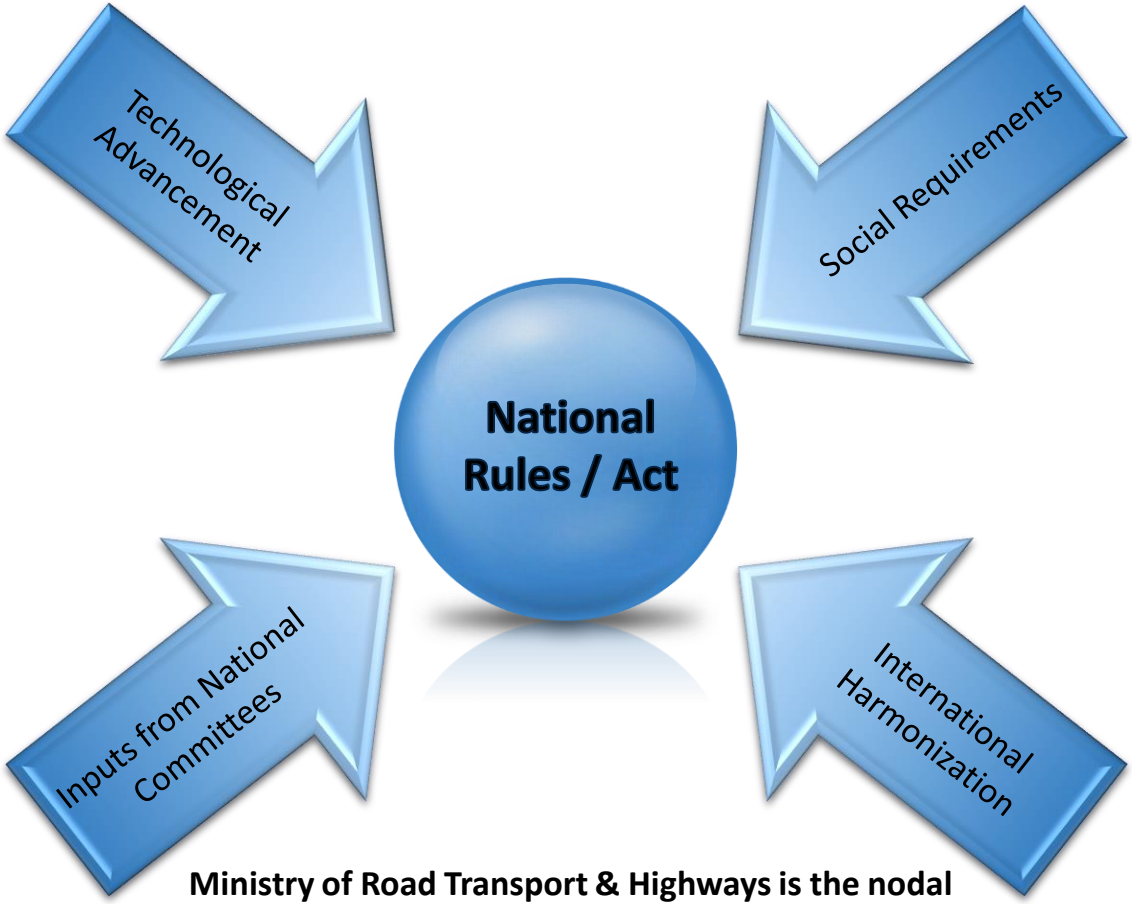
Certification Agencies

1. ARAI – The Automotive Research Association of India
2. VRDE – Vehicle Research Development Establishment
3. CIRT – Central Institute of Road Transport
4. ICAT – International Centre for Automotive Technology
5. IIP – Indian Institute of Petroleum
6. CFMTTI – Central Farm Machinery Testing & Training Institute
7. NRFMTTI – Northern Region Farm Machinery Testing & Training Institute
8. GARC – Global Automotive Research Centre (GARC)
9. NATRAX – National Automotive Test Tracks

Features of Indian Type Approval System

- **Type Approval system is similar to UN-ECE**
  - Implemented in year 1991
- **Type Approval administration**
  - Notifying agencies: Primarily MoRTH
  - Standards and other requirements are notified under CMVR
  - Testing agencies: Notified under Rule 126
  - TA certificates: Issued by Testing Agencies
- **Test standards**
  - Bureau of Indian Standards (BIS) prepares IS standards
  - AISC Technical committee prepares AIS standards as an interim step
  - Emission Test Procedure as per TAP/ 115-116 Document. Future standards will be published as AIS.
- **Roadmap of Regulations**
  - Agreed by industry, test agencies and government
  - Standards are aligned with UN Regulations / Global Technical Regulations (GTR) to the extent possible

Governing Factors



Ministry of Road Transport & Highways is the nodal Ministry for motor vehicle regulations in India

National Committees – Role & Responsibility

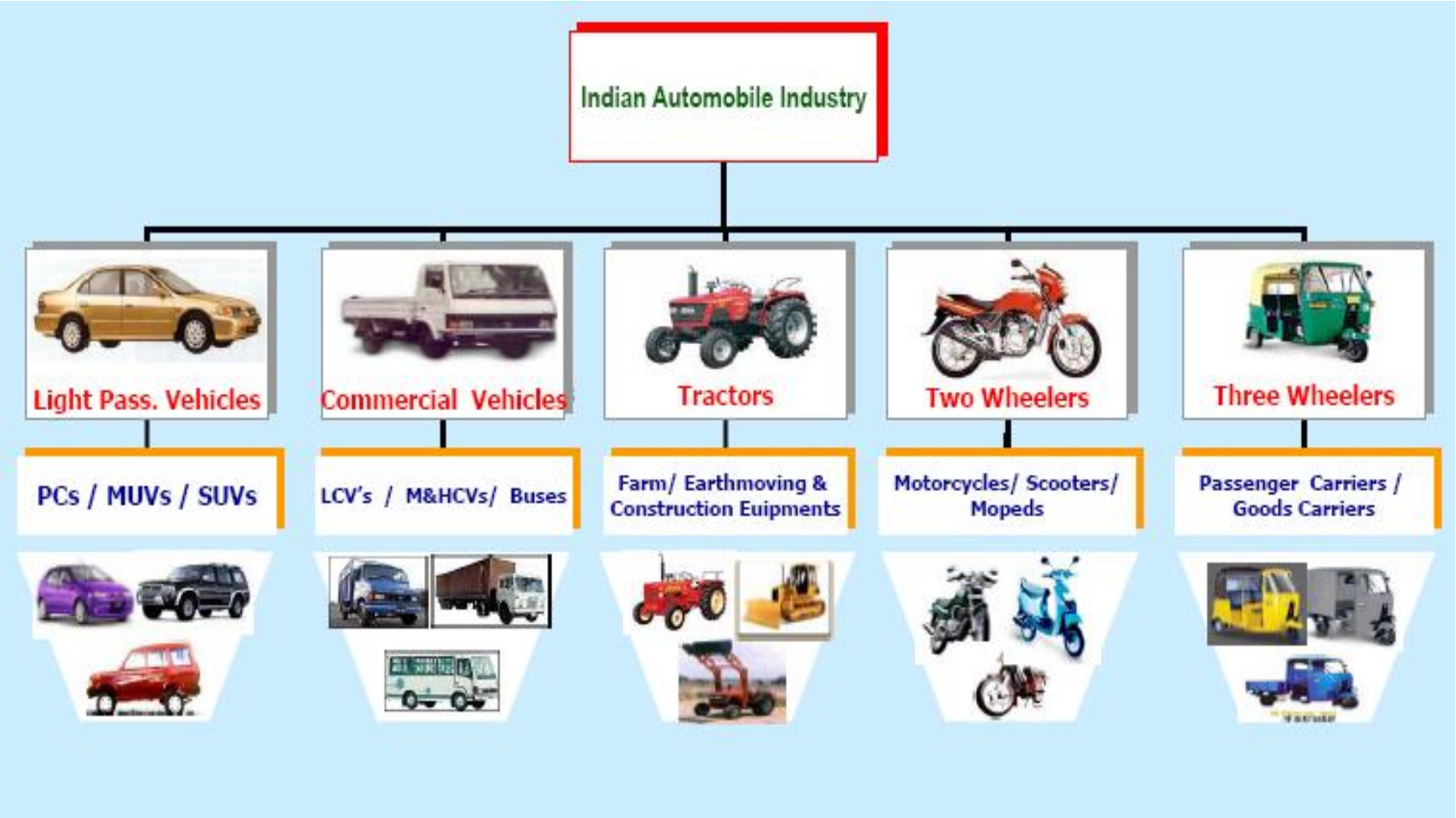
- **Central Motor Vehicles Rules-Technical Standing Committee (CMVR-TSC)**
  - CMVR-TSC is constituted by Govt. of India in year 1997. This Committee advises MoRTH on various technical aspects related to CMVR.
  - The Committee has played a major role in development and implementation of the Safety Regulations for automotive vehicles, vehicle systems and components in India. The Committee is chaired by JS, MoRTH.
- **Automotive Industry Standards Committee (AISC)**
  - AISC is set up under Central Motor Vehicles Rules - Technical Standing Committee (CMVR-TSC) by MoRTH in the year 1997 with objective to formulate safety standards for automotive vehicles, vehicle systems and components and review existing standards for amendments and recommend their implementation.
  - Director-ARAI is chairman of AISC.
- **Standing Committee on Implementation of Emission Legislation (SCoE)**
  - SCoE is constituted by Govt. of India in year 1991. This Committee advises MoRTH on various technical aspects related to Emission norms.
  - The Committee has played a major role in development and implementation of the Emission Regulations for vehicles in India. The Committee is chaired by JS, MoRTH.

Highlights of Subjects Covered under AIS

➢ Highlights of the subjects covered

- Lighting and Light-signalling devices for 2, 3, 4 W and Agricultural Tractors, Electromagnetic Compatibility (EMC), Adaptive Front-Lighting Systems (AFS), Light Emitting Diodes (LED)
- Rear View Mirrors, Field of Driver's Vision, Windscreen Wiping Systems, Safety Glazing, Anti-theft Devices, Controls Indicators and Tell-tale, CNG and LPG Safety Components, Hand Holds
- Frontal, Off-set Frontal, Lateral and Rear End Collision, FUPD, Pedestrian Safety, Child Restraint Systems (CRS), Seat Belts, Seat Belt Anchorages, Seats their Anchorages and Head Restraints, Interior Fittings, Fuel Tanks, Seat Belt Reminder, Reverse Parking Assist System, etc.
- Bus Body Code, Truck Body Code, Automotive Trailer Code, School Bus, Sleeper Coaches, National Ambulance Code, Motor Caravan, Double Deck Buses, Fire Detection and Alarm System (FDAS) & Fire Detection and Suppression Systems (FDSS) for Buses, etc.
- BoV, Hybrid Electric Vehicles, Retro-Fitment of Hybrid Electric Kits, Electric Vehicle Conductive AC & DC Charging System
- Electronic Stability Control Systems (ESC), Brake Assist Systems, Tyre Pressure Monitoring Systems
- Intelligent Transportation Systems (ITS) – Vehicle Tracking Devices and Panic Button for Public service Vehicles
- Testing, Type Approval and CoP procedure for emission norms Bharat Stage VI
- Agricultural Tractors: Noise, Fuel Tanks, Ballast Mass, Attendant's Seat, Coupling Devices, Agricultural Trailer Code etc.
- Guideline Standards: Automotive Rubber Components : Engine Coolant Hoses, V Belts, Gaskets. Re-tread Tyres, Replacement Brake Liners

Vehicles Covered under Type Approval



Motor Vehicle (Amendment) Act, 2019

Key provisions in Motor Vehicles (Amendment) Act, 2019

- Mandatory fitness test through Automated Centres
- New provision for ELV
- New Section on Vehicle Recall
- Safety of Pedestrians and Non Motorized Transport
- Safety of Children during Commute
- Electronic Monitoring and Enforcement of Road Safety
- New Section for Good Samaritan, Golden Hour treatment, No fault liability
- Penalties
- Schemes for interim relief for accident victim claimants
- Constitution of Motor Vehicle Accident relief Fund
- Formulation of Road Safety Board
- Various Central Motor Vehicle Rules concurrent with Motor Vehicle (Amendment) Act, 2019 is under process.

New Regulations

Key Safety provisions notified in India

- Crash Norms for all models from 1st October 2019 :
  Head-on Collision : AIS-096 :N1< 1.5 T and M1
  Offset Frontal Collision : AIS-098 : M1< 2.5 T
  Lateral Collision : AIS-099 :M1 and N1
- Pedestrian Protection for existing models from 1st October 2018 and for all models from 1st October 2020
  AIS-100 : (M1 and N1) < 2.5 T
- ABS (Anti-lock braking system) and CBS (Combined braking system) for 2 W from 1st April 2019
- ABS (Anti-lock braking system) for M1 and M2 from 1st April 2019
- Evaluation of Electronic stability function and Brake Assist Systems (if fitted) from 1st April 2021.
- Safety-belt reminder, speed alert system, driver airbag and reverse parking assist system for M1 category vehicles (AIS 145) from 1st July 2019.
- Reverse parking assist system for other than M1 category vehicles (AIS 145) from 1st July 2019.
- Testing and type approval of Trucks as per AIS-093 (Rev. 1) from 1st October 2019
- New Standard for additional features in Buses (AIS 153) including Fire Detection and Suppression Systems (AIS 135), Advanced Braking Features such as Electronic Vehicle stability Function, Noise and Vibration Requirements etc.
- Speed Limiting Devices as per AIS:018 w.e.f from 01st February, 2017 and Vehicle Location Tracking Devices w.e.f 01.01.2019 as per AIS:140

Key safety norms under discussion / implementation

- Vehicle Recall Procedure
- Additional Safety Features for 2 Wheelers (AIS 146 – Stands) (AIS 147 – External Projection) (AIS 148 – Foot rest)
- Rolling Resistance, Rolling Sound and Wet grip for Tyres
- Safety Norms for Construction Equipment Vehicles

New Regulations

Key Emission norms notified in India

- Implementation of Bharat Stage VI (BS VI) emission norms for L, M and N category vehicles.
- Real Driving Emissions.
- Next Stage Emission Norms for Agricultural Tractors, CEV and Combine Harvester.
- Alternate Fuels such as Methanol, Ethanol, Dual Fuel, LNG, Bio-diesel, CNG and Bio-CNG.

Control of In-Use Vehicles

- Setting up of model in - use vehicle Inspection and Certification Test Centers at various places in the country is in progress.
- AIS-129 on End of Life of Vehicles is published and implementation plan is under discussion.
- Draft Guidelines for setting up Authorized Vehicle Scrapping Facility has been issued.

Thank You !