



## Central Institute of Road Transport

Post Box No. 1897, Pune-Nasik Road, Bhosari, Pune - 411 026

Tel.: +91 20 67345300 Fax : +91 20 67345407

E-mail : [director@cirtindia.com](mailto:director@cirtindia.com) Website : <http://www.cirtindia.com>

## PROFILE

The Central Institute of Road Transport (CIRT), a premier organisation in the domain of vehicle and automobile component certification, research and consultancy and management development was established in 1967 jointly by the Ministry of Road Transport and Highways, Government of India and Association of State Road Transport Undertakings (ASRTU).

Though, CIRT was established to help State Public Transport Undertakings in their training, testing and consultancy requirements, CIRT has over the years expanded its activities covering the entire gamut of Road Transport Sector in India.

CIRT is a technical organ of Ministry of Road Transport and Highways and ASRTU and one of India's national approval authority for all types of new road vehicles, agricultural tractors, off-road vehicles and automotive components. CIRT's status allows close links with all key stakeholders of India's Road Transport Sector, be it the Ministries of Government of India, State Road Transport Undertakings, State Road Transport Authorities, Vehicle Manufacturers or Automotive Component Manufacturers. CIRT brings the expertise and back-up of the government, but with the freedom to react to society's changing needs.

CIRT is established at prime location in Pune, 140 Kms south east of Mumbai on the verdant campus of 90 acres. CIRT has manpower strength of 170 with the strength of automotive professionals and Transport Researchers and Planners standing at 40.

## SERVICES OFFERED

- Vehicle and Automotive Component Testing, Certification and Homologation.
- Research and Consultancy.
- Management Development.
- Assisting Government of India for formulation of safety and emission standards.
- Automotive Industry Standards Committee's (AISC) Technical Secretariat for Formulation of Mandatory Standards for Vehicles having GVW>3.5 tonne.
- Provide vital inputs for WP 29 activities for formulation of Global Technical Regulations (GTRs).
- Act as a Secretariat for MoRTH for Working Party on Road Traffic Safety (WP-1) of United Nations Economic and Social Council.

## IMPORTANT MILESTONES

- 1967** CIRT established on the joint initiative of the Ministry of Road Transport & Highways and Association of State Road Transport Undertakings.
- 1970** Foundation Stone for CIRT Main Building laid by the then Honourable Union Home Minister Late Shri Y B Chavan.
- 1971** Laboratories for testing of Automotive Components established.
- 1994** Tyre & Wheel Rim laboratory, the first of its kind in India, established.
- 2003** Upgradation of Photometry Laboratory.
- 2004** First Safety Component Certificate under CMVR Rule 124 issued.
- 2005** Up-gradation of Polymer Laboratory.
- 2006** Establishment of Vehicle Crash & Structural Dynamic Laboratory.
- 2008** Foray in Vehicle Certification. First Vehicle Type approval under CMVR Rule 126 issued.
- 2009** Ventured in Bus Body Builders Accreditation Certification.
- 2010** India's largest web based Bus Ticket Reservation System "Busindia.com" launched.
- 2011** Upgradation of Structural Dynamics Laboratory.
- 2014** Institute of Driving Training & Research (IDTR) inaugurated by Shri Nitin Gadkari, Honourable Union Minister of Road Transport & Highways and Shipping.  
  
CIRT's proposal for Centre of Excellence in Public Road Transport approved in principle by the Ministry of Road Transport & Highways.
- 2015** CIRT & FEV India join hands for powertrain certification.  
  
Post Graduate Academy established with VEL TECH for M. Tech. in Automobile Engineering (Vehicle Engineering & Transport Management).  
  
Technical Secretariat for Automotive Industry Standards Committee (AISC) for Vehicles with GVW of more than 3.5 Tonnes established at CIRT.  
  
Secretariat for Ministry of Road Transport & Highways for Working Party on Road Traffic Safety (WP-1) of United Nations Economic & Social Council established.

## SAFETY & HOMOLOGATION DIVISION

Safety & Homologation Division was established in the year 2007-08. This division of CIRT deals with Certification and Homologation of Motor Vehicles as per Central Motor Vehicle Rules 1989. CIRT has extensive experience in certification of international and national brands for various buses and trucks. CIRT also undertakes the Certification of E-rickshaws and 2-wheelers. CIRT is equipped with state-of-art CMVR testing facilities. Safety & Homologation division carries out the following main activities :-

- Testing & Type Approval Certification of all types of Motor Vehicles under CMVR Rule 126.
- Bus Body Certification as per AIS 052/Third Party Inspection of Buses.
- Performance Evaluation of all types of vehicles for Brakes/ABS/Fuel Consumption, Gradeability, Pass by Noise, A/C Performance Tests, EMI & EMC tests.
- Emission Certification.
- Homologation of Vehicles for Export.
- Validation / Endurance Tests under Indian Road, Load & Environmental Conditions.
- Formulation of Automotive Standards.
- Type Approval and Conformity of Production of Safety Critical Components.
- Providing valuable inputs to MoRTH, STUs, RTAs in policy matters as and when required.

## ENGINEERING DIVISION

Engineering Division was established in 1971. It houses eleven laboratories dealing with specific areas. The laboratories deal with the following activities :-

- Testing and Type Approval Certification of Safety Critical Components of Motor Vehicles under CMVR Rule 124.
- Testing, validation and certification of Auto-components as per CMVR, BIS, ASRTU, SAE, FMVSS, ECE and JIS specifications through sophisticated automobile component testing laboratories.
- The Tyre and Wheel Rim Laboratory & Polymer Laboratory of CIRT are NABL Accredited and recognised by Bureau of Indian Standards (BIS).
- Performance evaluation and endurance testing of all automotive components.
- Product validation and development tests.
- Formulation of automotive safety standards/product specifications.

### Laboratories

#### (Products Tested / Tests Conducted)

#### Tyre and Wheel Rim Testing Laboratory

Endurance, Rolling Resistance, Force and Moment, Load and Speed Performance, Stiffness, Plunger Energy, Bead Unseating Force, Footprints, Burst Test, RFT, CFT, Rotational Bending Moment, Impact Strength, Torsional Strength.

#### Vehicle Crash Laboratory

Front Impact Strength, Roll Over Test, RUPD, SUPD, FUPD, Roll Over Protection Strength of Tractor, Roof Strength and Rear Wall Strength of Cabins, Walk-in Chamber.

#### Auto Component Laboratory

Filters, Oil Seals, Jacks, Fan Belt, Leaf Springs, Radiator, Radiator Fans, Steering Knuckle, Engine Mounting Pads etc.

#### Electrical Laboratory

Batteries, Alternators, Electric Horns, Automobile Lamps, Auto Cables, Head Lamps Switch, Electronic Voltage Regulator, Pressure Gauges, Speedometer etc.

#### Photometry Laboratory

Head Lamps, Auto Bulbs, Rear View Mirrors, Reflex Reflectors, Retro Reflective Tapes, Warning Triangle, High Security Registration Plates, License Plate, Parking Lamps, Indicators, Roof Lights, Tube Lights, Reversing Lamps etc.

#### Polymer Laboratory

Rubber Products, Polymer and Plastic Products, Gaskets.

#### Metallurgy Laboratory

All ferrous and non-ferrous metal components/ products for hardness and chemical analysis, microstructure analysis, mechanical properties etc.

#### Environmental Laboratory

Paints, Foams, Plywood etc.

#### Fatigue Laboratory

Axles, Leaf Springs, Shafts etc.

#### Petroleum Laboratory

Fuels, Greases, Lubricants & Radiator Coolant.

#### Chemical Laboratory

Chemical Analysis of Metals & Non-Metals.

## QUALITY POLICY

*We are committed to achieve customer satisfaction by providing consistent quality services in testing, training, research and consulting through continual improvement.*

*We strive to achieve profitable growth and international recognition through innovative strategies and motivation of employees for dedicated teamwork.*

## TRAINING, RESEARCH AND CONSULTANCY DIVISION

### Research & Consultancy Centre (RCC)

RCC at CIRT has a dedicated team of highly qualified Engineers & Scientists with assurance of delivering superior returns to clients through its cost-effective and high value services model. RCC deals with various Research & Consultancy projects in the following areas :-

- ❖ Comprehensive traffic and transportation studies for cities, ports and states in the country and abroad, feasibility studies & preparation of layout plans for Bus Rapid Transit Systems (BRTS), Metro Bus System, Toll-based Expressways, Toll Plazas & Automated Border Check Posts and Driving Training Institutes and Driving Test Tracks.
- ❖ Road Safety Management, Road Safety Audits & Computerised Driver Testing Systems.
- ❖ Pilot Project Studies in Alternative Vehicle Technologies and Fuels such as use of Bio Diesel, Ethanol, Hybrid & Electric Vehicle Technologies.
- ❖ Issues in Transport Policy & Economics, Mechanical Engineering, Freight Transportation, Futuristic Technologies, Environmental Pollution, Alternative Fuels & Third Party Bus Body Inspection.
- ❖ Studies for State Transport Undertakings (STUs) on Origin-Destination of Passengers, Route Rationalisation, Performance Improvement Measures, Organisational Restructuring, Layout Plans for Bus Terminals, Depots & Workshops, Upgradation of Facilities at Bus Terminals, Intelligent Transport System (ITS), Preparation of Transport Policy, Public Transport Planning and Management, Strategic Planning for Sustainable Development, Assessment of Customer Satisfaction, Computerisation of Traffic, Maintenance, Stores & Inventory, Administration and Accounts Departments, Bid Process Management for Civil and Traffic Projects & Procurement of Vehicles, Vehicle Engineering & Fuel Management.
  - JnNURM Projects for Procurement of Buses in the Urban Centres.
  - CIRT assists the MoRTH on several projects related to public transport and road safety under various schemes as a Technical Evaluating & Monitoring Agency.
  - CIRT officials are members of various Expert Committees on Public Transport, Road Safety, Motor Vehicle Legislation & ITS.

### Management Development Center (MDC)

The MDC at CIRT is established on a verdant campus consisting of classrooms, seminar hall, library, computer centre, testing and sports facilities. The campus provides a conducive environment for learning and intellectual growth. The programmes are both residential & non-residential with aim at formal & informal processes of learning both within & outside the classroom.

The MDC with its focus on building capacity in transport sector, offers following training solutions :-

- ❖ Foundation Training for newly recruited officers - developed on proven expertise in meeting organisational expectations and adapting to individual learning needs.
- ❖ Advance Training Programme - developed for updating the knowledge on latest development & policy and platform for exchange of ideas with peers.
- ❖ Allied Training Programmes - addressing the needs of day-to-day management like General Management, RTI, Stress Management, Soft Skills etc.
- ❖ The MDC also organises Conferences, Seminars & Workshops in the areas such as Urban Transport, Intelligent Transport System (ITS), Bus Body Code, Road Safety, Motor Vehicle Rules & Regulations and Vehicle Engineering & Auto Component Engineering.
- ❖ Customised Solutions - designed to address the specific needs of the clients.

### The MDC also Conducts M. Tech. Programme (2 years full time) in Automobile Engineering (Vehicle Engineering & Transport Management) jointly with Vel Tech.

- Conducted 1800+ training programmes till date.
- Trained over 54,000 senior officials from consortium of State Transport Undertakings, Automotive Component Manufacturers, Vehicle Manufacturers, Bus Body Builders, Freight Operators, Private Operators, Motor Vehicle Departments, Police Department, Municipal Corporations and Development Authorities.
- Conducted several International Training Programmes for Members of SAARC countries, Police Department, Government of Nepal, Transport Department, Royal Government of Bhutan, Transport Department, Government of Ghana on topics like Energy Conservation in Road Transportation.

## SOME OF OUR ESTEEMED CLIENTS

- |  |   |   |                                      |
|--|---|---|--------------------------------------|
| ▪ Volvo Buses India Pvt. Ltd.                | ▪ John Deere India Pvt. Ltd.                              | ▪ Road Transport Authorities                | ▪ Goodyear India Ltd.                |
| ▪ Scania Commercial Vehicles India Pvt. Ltd. | ▪ SML Isuzu Ltd.  | ▪ Bridgestone Corporation                   | ▪ Premier Ltd.                       |
| ▪ Mahindra & Mahindra Ltd.                   | ▪ Asia Motor Works Ltd.                                   | ▪ JK Tyre & Industries Ltd.                 | ▪ Piaggio Vehicles Pvt. Ltd.         |
| ▪ Bajaj Auto Ltd.                            | ▪ DSK Motowheels Pvt. Ltd.                                | ▪ Ceat Ltd.                                 | ▪ Force Motors Ltd.                  |
| ▪ VE Commercial Vehicles Ltd.                | ▪ JCB India Ltd.  | ▪ Birla Tyres                               | ▪ Kirloskar Oil Engines Ltd.         |
| ▪ Tata Motors Ltd.                           | ▪ Kalyani Hayes Lemmerz Ltd.                              | ▪ MRF Ltd.                                  | ▪ Corona Bus Manufacturers Pvt. Ltd. |
| ▪ Ashok Leyland Ltd.                         | ▪ Bureau Veritas Consumer Products Services (I) Pvt. Ltd. | ▪ Associated Ceat Kelani Radial (Pvt.) Ltd. | ▪ Veera Vahana Udyog Ltd.            |
| ▪ International Tractors Ltd.                | ▪ State Transport Undertakings                            | ▪ Apollo Tyres Ltd.                         | ▪ KMS Coach Builders Pvt. Ltd.       |
| ▪ New Holland Fiat (India) Pvt. Ltd.         |   | ▪ Yokohama Rubber Co Ltd.                   | ▪ S M Kannappa Automobiles Pvt. Ltd. |