

INTRODUCTION

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This document prescribes the test method, testing equipment and other related procedure for the purpose of testing motor vehicles for verifying compliance to Rule 115 and 126A of CMVR for Type Approval and Conformity of Production. This document covers Bharat Stage-I,II, III & IV norms for 2-wheeler, 3-wheeler and motor cars and diesel engines wherever applicable, Trem-II, Trem-III & Trem IIIA norms for agriculture, power tiller and emission norms for construction equipment vehicles. [Concerned G.S.R. Notification nos. are 493(E), 77(E), 284(E), 286(E), 675(E), 788(E), 853(E), 83(E), 686(E), 720(E),589(E),276(E),84(E)]. This also contains the total procedure for checking of the in-service vehicles for idling CO/HC for vehicles fitted with petrol / CNG / LPG engines or free acceleration smoke for vehicles fitted with diesel engines.

The emission regulation limits will be as notified by MoRTH under CMVR from time to time.

This document is at present divided into 15 parts.

Parts I and II are the procedures for checking idling CO and HC, free acceleration smoke on in-service petrol / diesel vehicles. These are based on which are originally intended for the type-approval for rule 115(2).

Parts III, IV and V covers the test procedure for rules 115(3), (4) and (5) respectively, which are Annexure III, IV and V of Ranganathan Committee Report, incorporating some changes as were felt necessary from the experience gained so far.

Part VI is the administrative procedure for COP and is based on decision taken by SCOE from time to time.

Part VII has been prepared to cover the testing procedures for crankcase and evaporative emissions and are based on the corresponding EEC.

Part VIII is the procedure for type-approval of instruments for checking the emission from in-service vehicles.

Part IX is the procedure for tail pipe emissions from petrol, CNG, LPG and diesel engine vehicles effective from the year 2000.

Part X is the procedure for gaseous pollutants from compression ignition, natural gas, LPG engines with effective from 1.4.2000.

Part X, Sub Part A is the procedure for diesel engine agricultural tractors and construction equipment vehicles engines testing.

Part X, Sub Part A is the details of standards of visible and gaseous pollutants from diesel engines for construction equipment vehicles

Part XI is the Details of Standards for tailpipe Emissions from Petrol, CNG, LPG and Diesel Engined Vehicles and Test Procedures effective from the 01-04-2005.

Part XII is the Details of Standards for Emissions of Visible and Gaseous pollutants from Compression Ignition (CI), Natural Gas (NG) & Liquefied Petroleum Gas (LPG) Engined Vehicles and Test Procedures effective from the 01-04-2005.

Part XIII is the Details of Standards for Tailpipe Emissions from Petrol, CNG, LPG and Diesel Engined Vehicles and Test Procedures Effective for Mass Emission Standards (Bharat Stage III) for Two / Three Wheeled Vehicles

Part XIV is the Details of Standards for Tailpipe Emissions from Petrol, CNG, LPG and Diesel Engined Vehicles and Test Procedures Effective for Mass Emission Standards (Bharat Stage IV) for M and N Category Vehicles not exceeding 3.5 tons GVW

Part XV is the details of standards for emissions of visible and gaseous pollutants from compression ignition (ci), natural gas (ng) & liquified petroleum gas (lpg) engined vehicles and test procedures effective for mass emission standards (bharat stage iv) for vehicle above 3.5 tons gvw

Part XV sub part (A) details of standards of visible and gaseous pollutants from diesel engines for agriculatural tractors