

THE CENTRAL MOTOR VEHICLES RULES



UPDATED – MARCH 2020

Table of Contents

CHAPTER I	11
Preliminary	11
1. Short title and commencement.....	11
2. Definitions. -	11
CHAPTER II	21
Licensing of Drivers of Motor Vehicles	21
3. General	21
^{14a} [4. Evidence as to the correctness of address and age.....	21
5. Medical certificate.....	22
6. Exemption from production of medical certificate.....	23
7. Affixing of photograph to medical certificate.....	23
[8. Ommitted].....	23
^{23a} [8-A. Minimum training required for driving E-rickshaw or E-cart	23
²¹ [9. Educational qualifications for drivers of goods carriages carrying dangerous or hazardous goods	24
10. Application for learner's licence.....	26
11. Preliminary test	27
12. Consent of parent or guardian, in the case of application by minor.....	28
13. Form of learner's licence.....	28
14. Application for a driving licence	28
15. Driving test.....	29
16. Form of driving licence	32
17. Addition to driving licence	32
18. Renewal of driving licence	33
19. Refund of fee.....	34
20. Driving licence to drive motor vehicle belonging to the Defence Department	34
21. Powers of licensing authority to disqualify	34
22. Endorsement by Courts	36
23. State Register of driving licenses	37
24. Driving schools and establishments.....	37
25. Duration of a licence and renewal thereof	41

26. Issue of duplicate licence	41
27. General conditions to be observed by the holder of a licence	41
28. Power of the licensing authority to suspend or revoke licence	42
29. Appeal.....	43
30. Procedure for appeal.....	43
31. Syllabus for imparting instructions in driving of motor vehicles	43
⁵⁹ [32. Fees	54
CHAPTER III	56
REGISTRATION OF MOTOR VEHICLES.....	56
33. Condition for exemption from registration.....	56
34. Trade certificate.....	56
35. Grant or renewal of trade certificate.....	56
36. Refund	57
37. Period of validity.....	57
38. Issue of duplicate certificate.....	57
39. Use of trade registration mark and number	58
40. Restrictions on use of trade certificate or trade registration mark and number	58
41. Purposes for which motor vehicle with trade certificate may be used	58
42. Delivery of vehicle subject to registration.....	59
43. Register of trade certificate	59
44. Suspension or cancellation of trade certificate	59
45. Appeal.....	60
46. Procedure for appeal	60
47. Application for registration of motor vehicles	60
48. Issue of certificate of registration.....	62
49. Registration records to be kept by the registering authority	63
⁷³ [50. Form and manner of display of registration marks on the motor vehicles.....	63
⁸¹ [51. Size of letters and numerals of the registration mark	68
52. Renewal of certificate of registration.....	69
53. Issue of duplicate certificate of registration	69
54. Assignment of new registration mark	70
55. Transfer of ownership	70
56. Transfer of ownership on death of owner of the vehicle	71

57. Transfer of ownership of vehicle purchased in public auction	71
58. No objection certificate	72
59. Change in residence.....	73
60. Endorsement of hire-purchase agreements, etc	73
61. Termination of hire-purchase agreements, etc.....	73
62. Validity of certificate of fitness.....	74
63. Regulation and control of authorised testing stations.....	78
64. Duration of letter of authority.....	80
65. General conditions to be observed by the holder of letter of authority.....	80
66. Issue of duplicate letter of authority.....	82
67. Supervision of authorised testing stations.....	82
68. Power of registering authority or Regional Transport Authority to call for information	82
69. Power of registering authority to suspend or cancel the letter of authority or forfeit security deposit.....	82
70. Appeal.—	83
71. Procedure for appeal	83
72. Voluntary surrender of letter of authority	84
73. Tax clearance certificate to be submitted to the testing station	84
74. Assignment of registration marks to the vehicles belonging to the Central Government used for defence purposes.....	84
75. State register of motor vehicles	84
76. Registration of vehicles of diplomatic and consular officers.....	85
77. Exhibition of registration mark.....	88
78. Assignment of new registration mark on removal of vehicle to another State.....	90
79. Suspension and cancellation of registration of vehicle registered under rule 76	90
80. Transfer or disposal of motor vehicle registered under rule 76	90
⁴ [81. Fees	91
CHAPTER IV	95
CONTROL OF TRANSPORT VEHICLES	95
82. Tourist permits	95
83. Authorization fee	95
84. Right of operation	96
85. Additional conditions of tourist permit.....	96

85-A. The following shall be the additional conditions of every tourist permit in respect of motor cabs	98
86. Application for national permit.....	99
87. Form, contents and duration of authorisation	99
88.Age of motor vehicle for the purpose of national permit.....	100
89 Omitted	101
90. Additional conditions for national permit.....	101
CHAPTER V	102
Construction, Equipment and Maintenance of Motor Vehicles	102
91. Definitions	102
92. General	102
93. Overall dimension of motor vehicles	103
94. Condition of tyres	113
95. Size and ply rating of tyres	114
⁶⁸ [95-A. Size and ply rating of tyres for agricultural tractor.....	118
⁶⁹ [95-B.Size and ply rating of tyres for power tillers.....	119
^{69a} [95-C. Size and ply rating of tyres for modular hydraulic trailers.....	119
95-D.Limited road trials	120
96.Brakes.....	120
⁷⁶ [96-A.Brakes for construction equipment vehicle.....	126
⁷⁸ [⁷⁹ [96-B. High Speed Braking Requirements	127
⁸⁰ [96-C.Brakes for agricultural tractor	128
⁸¹ [96-D.Braking requirements for power tillers	129
^{81a} [96-E. Brakes for combine harvester	129
97. Brakes for trailers	130
98.Steering gears.....	130
⁹⁰ [98-A.Steering gears for construction equipment vehicles	131
⁹¹ [98-B.Steering Gears for agricultural tractors	132
⁹² [98-C.Steering gear for power tillers	132
⁹³ [98-D. Steering gears for combine harvester	132
99.Forward and backward motion.....	133
100.Safety glass	133
¹⁰ [101.Windscreen wiper	134

¹⁸ [102. Signalling devices, direction indicators and stop lights.....	135
103. Position of the indicator	137
²³ [104.Fitment of reflectors.	137
^{30³¹} [104-A. Fitment of reflectors on construction equipment vehicles and combine harvesters	139
104-B. Fitment of reflectors for agricultural tractors.....	140
104-C. Fitment of reflectors on power tillers	141
³² [104-D. Fitment of retro-reflective tapes or reflectors and rear marking plate on modular hydraulic trailer.....	141
105. Lamps	142
106. Deflection of lights	145
⁵¹ [107. Top lights	145
⁵³ [107-A. Implement lights for construction equipment vehicle.....	146
⁵⁴ [108. Use of red, white or blue light	146
⁵⁵ ^{55a} [108-A. Use of red or white light on construction equipment vehicles and combine harvesters	147
^{55b} [108-B. Use of beacon or blinking lamp on puller tractor.....	147
⁵⁶ [109. Parking light	147
⁵⁶ [110. ⁶⁰ [Lamps on three-wheelers]	148
111. Prohibition of spot lights, etc	149
112. Exhaust gases	149
113. Location of exhaust pipes.....	150
114. Exhaust pipes of public service vehicles	150
115. Emission of smoke, vapour, etc. from motor vehicles.....	150
⁹¹ [115-A. ⁹² [Emission of smoke and vapour from agricultural tractors, power tillers, construction equipment vehicles and combine harvesters driven by diesel engines	224
^{96b} [115-AA. Emission of smoke and vapour from agriculture tractors, power tillers, construction equipment vehicles and combine han/esters driven by dualfuel diesel with Compressed Natural Gas or Bio-Compressed Natural Gas or Liquefied Natural Gas engines.....	234
^{96c} [115-B. ^{96b} [.....	235
⁷ [115-C Mass emission standards for Liquefied Petroleum Gas	253
^{14a} [115-D. Retro-fitment of hybrid electric system or electric kit to vehicles.....	260
^{14b} [115-E. Mass emission standard for flex-fuel ethanol (E85) or (E100) and ethanol (ED95) vehicles]	261

^{14ca} [115-F. Mass emission standards for bio-diesel (B100)	264
^{14cb} [115G. Fuel consumption standard.-	266
^{14d} [115H. Mass emission standards for flex-fuel Methanol ^{14da} [M15 or M100 or M85 and Methanol MD 95] vehicles. -	266
^{14e} [115-I. Mass emission standards for Di-Methyl Ether (DME or D100) Vehicles	269
116. Test for smoke emission level and carbon monoxide level for motor vehicles	271
117. Speedometer.....	272
²³ [118. Speed governor.....	273
119. Horns	275
120. Silencers	276
121. Painting of motor vehicles	278
123. Safety devices in motorcycle	280
⁴⁸ [124. Safety standards of components.....	281
⁵⁶ [^{56a} [124-A. Safety standards of components for agricultural tractors	284
124-B. Safety Standards of components for power tillers.....	287
⁵⁹ [125. Safety belt, collapsible steering column, auto dipper and padded dash boards.....	288
⁶⁸ [^{68a} [125-A. Safety belt, etc., for construction equipment vehicles.....	292
^{68c} [125-B. Special requirements for transport vehicles that are driven on hills	293
125-C. Body building and approval	293
^{69c} [125-D. Approval of Category T	298
^{69d} [125-E. Special requirements of motor vehicles transporting livestock.....	299
^{69e} [125F-Type Approval of Road Ambulances of Vehicle categories L and M.....	299
125-G Type Approval of Special Purpose Vehicles	299
^{69f} [125 H. Provision of vehicle location tracking device and emergency button.....	300
⁷⁰ [126. Prototype of every motor vehicle to be subject to test.....	300
⁷⁷ [126-A.....	302
⁷⁵ [^{79a} [126B. Prototype of every construction equipment vehicle to be subject to test.....	303
^{81a} [126.C.....	303
127. Quality certificate by manufacturer.....	304
128. Tourist vehicles other than motor cabs, etc	304
⁹⁰ [128-A. Special provision for M3 category of vehicles	308
129. Transportation of goods of dangerous or hazardous nature to human life	309
[129-A. Spark arrester.....	309

130. Manner of display of class labels	309
⁹³ [131. Responsibility of the consignor for safe transport of dangerous or hazardous goods..	310
⁹⁴ [132. Responsibility of the transporter or owner of goods carriage	311
⁹⁵ [133. Responsibility of the driver.	312
134. Emergency information panel	312
135.Driver to be instructed.....	314
⁹⁸ [136.Drivers to report to the police station about accident.....	314
137.Class labels	314
CHAPTER VI	402
Control Of Traffic.....	402
138. Signals and additional safety measures for ¹ [motor vehicle].	402
^{6b} [138-A. Fitment of Radio Frequency Identification Tag	404
^{6c} [138 B.	404
⁷ [139. Production of licence and certificate of registration.....	405
CHAPTER VII	406
Insurance Of Motor Vehicles Against Third Party Risks	406
140. Definitions.—	406
141. Certificate of insurance	407
142. Cover notes.....	407
143. Issue of certificates and cover notes.....	407
144. Transfer of certificate of insurance	407
145. Exclusion of advertising matter.....	407
146. Certificates or cover notes lost, destroyed, torn, soiled, defaced or mutilated	407
147. Records to be maintained by authorised insurers	408
148. Records of exempted vehicles.....	409
149. Supply of information	409
150. Furnishing of copies of reports to Claims Tribunal.....	409
151. Establishment of fund	409
152. Amount of the fund	409
153. Investment of the fund	410
154. Securities held as a deposit in the fund	410
155. Deposit procedure	410
156. Interest on deposits	411

157. Withdrawal.....	411
158. Settlement of claims.....	411
159. List of foreign insurers	411
160. Guarantor of foreign insurer	411
161. Endorsement of certificate of foreign insurance.....	412
162. Validity of certificate of foreign insurance	413
163. Maintenance of records by the guarantor	413
CHAPTER VIII	414
OFFENCES, PENALTIES AND PROCEDURE.....	414
164. Offences for the purpose of section 208	414
FORMS	415
FORM 1.....	415
FORM 1-A.....	416
FORM2.....	418
FORM 3.....	424
FORM 4 – Omitted.....	425
FORM 4-A.....	425
FORM 5.....	427
FORM 6 -Omitted	427
FORM 6-A.....	427
FORM 7.....	432
FORM 8 – Omitted.....	436
FORM 9 – Omitted.....	436
FORM 10	436
FORM 11	437
FORM 12	438
FORM 13	439
FORM 14	440
FORM 15	441
FORM 16	441
FORM 17	442
FORM 18	443
FORM 19	444

FORM 20	444
FORM 21	450
FORM 22	451
FORM 22-A.....	452
FORM 22B	453
FORM 23 – Omitted	457
FORM 23-A.....	457
FORM 24	463
FORM 25	465
FORM 26	467
FORM 27	469
FORM 28	471
FORM 29	473
FORM 30	474
FORM 31	476
FORM 32	478
FORM 33	478
FORM 34	480
FORM 35	481
FORM 36	482
FORM 37	483
FORM 38	484
FORM 38A	485
FORM 39	485
FORM 40	486
FORM 41	487
FORM 42	488
FORM 43	490
FORM 44	491
FORM 45	492
FORM 46	494
FORM 47	496
FORM 48	498

FORM 49 - Omitted.....	499
FORM 50	499
FORM 51	501
FORM 52	503
FORM 53	503
FORM 54	504
FORM 55	505
FORM 56	506
FORM 57	506
FORM-58.....	507
ANNEXURES	508
THE DRIVING LICENCE (CONDITIONS FOR EXEMPTION) RULES, 1992 ¹	566
RENT A CAB SCHEME, 1989 ¹	567
RENT A MOTOR CYCLE SCHEME, 1997 ¹	576
MOTOR VEHICLES (ALL INDIA PERMIT FOR TOURIST TRANSPORT OPERATORS) RULES, 1993 ¹	583
OVERALL DIMENSIONS OF MOTOR VEHICLES (PRESCRIPTION OF CONDITIONS FOR EXEMPTION) RULES, 1991 ¹	599
RULES OF THE ROAD REGULATIONS, 1989	601
SOLATIUM SCHEME, 1989.....	626
THE MOTOR VEHICLES (NEW HIGH SECURITY REGISTRATION PLATES) ORDER, 2019.....	635
SPECIFICATION OF TYPES OF MOTOR VEHICLES	640
REGISTRATION MARK FOR EACH STATE	642
MAXIMUM GROSS VEHICLE WEIGHT AND SAFE AXLE WEIGHT.....	644
MAXIMUM SPEED OF MOTOR VEHICLES	647
MOTOR VEHICLES (VEHICLE LOCATION TRACKING DEVICE AND EMERGENCY BUTTON) ORDER, 2018	648

The Central Motor Vehicles Rules, 1989¹

CHAPTER I

Preliminary

1. Short title and commencement. - (1) These rules may be called the Central Motor Vehicle Rules, 1989.

(2) Save as otherwise provided in sub-rule (3)²[and sub-rule (2) of rule 103,] these rules shall come into force on the 1st day of July, 1989.

(3) The provisions of 2[rule 9,] sub-rule (3) of rule 16, sub-rule (4) of rule 96,³[* * *] sub- rule (3) of rule 105, rule 113, sub-rules (2), (3), (4) or (5) of rule 115, rules 118,122,124,125,126 and 127 shall come into force on such date as the Central Government may, by notification in the Official Gazette, appoint.

2. Definitions. - *In these rules, unless the context otherwise requires —*

(a) "**Act**" means the Motor Vehicles Act, 1988 (59 of 1988);

⁴[(b) "**agricultural tractor**" means any mechanically propelled 4-wheel vehicle designed to work with suitable implements for various field operations and/or trailers to transport agricultural materials. Agricultural tractor is a non-transport vehicle;

(c) "**agricultural trailer**" means a trailer generally left uncovered with single/double axle construction which is coupled to an agricultural tractor by means of two hooks and predominantly used for transporting agricultural materials;]

⁵[(ca) "**combine harvester**" means an agricultural equipment vehicle, self-propelled or agricultural tractor powered type (either coupled to the trailer for header assembly or any other attachment of the machine) designed to perform more than one of the following tasks namely :-

(i) Picking, harvesting, threshing, separating, cleaning, chopping, collecting and unloading crop or agricultural produce, such as a grain,

¹ Vide G.S.R. 590 (E), dated 2-6-1989, published in the Gazelle of India, Ext., Pt. II, S. 3, dated 2-6-1989.

² Inserted by G.S.R. 933(E), dated 28-10-1989 (w.e.f. 28-10-1989).

³ The words and figures "sub-rule (3) of rule 103" omitted by G.S.R 221(E), dated 28-3- 2001 (w.e.f. 28-3-2001).

⁴ Inserted by G.S.R. 338(E), dated 26-3-1993 (w.e.f. 26-3-1993).

⁵ Inserted by G.S.R. 212(E), dated 20-3-2015 (w.e.f. 01-04-2015).

sugarcane, cotton, fodder, straw or stalk, while moving through the standing crop or agricultural produce;

(ii) Agreement of bagging with a pick-up attachment to use it for handling crop that has been swathed.

Explanation. – For the purpose of these clause, a combine harvester shall be a non-transport motor vehicle, the driving on the road of which is incidental to the main intended use in the fields and for travelling from one field to another, for short durations, at a speed not exceeding thirty kilometer per hour;]

^{5a}[(cab) "**construction equipment vehicle**" means rubber tyred (including pneumatic tyred), rubber padded or steel drum wheel mounted, self-propelled, excavator, loader, backhoe, compactor roller, dumper, motor grader, mobile crane, dozer, fork lift truck, self-loading concrete mixer or any other construction equipment vehicle or combination thereof designed for off-highway operations in mining, industrial undertaking, irrigation and general construction but modified and manufactured with "on or off" or "on and off" highway capabilities.

Explanation.—A construction equipment vehicle shall be a non-transport vehicle the driving on the road of which is incidental to the main off-highway function and for a short duration at a speed not exceeding 50 kms per hour, but such vehicle does not include other purely off-highway construction equipment vehicle designed and adopted for use in any enclosed premises, factory or mine other than road network, not equipped to travel on public roads on their own power;]

⁶[(cb) —"**E.rickshaw**" means a special purpose battery operated vehicle having three wheels and intended to provide last mile connectivity for transport of passengers for hire or reward, provided, -

- (i) Such vehicle is constructed or adapted to carry not more than four passengers, excluding the driver, the not more than 40 kilograms luggage in total;
- (ii) The net power of its motor is not more than 2000 W;
- (iii) The maximum speed of the vehicle is not more than twenty-five kilometer per hour;

^{5a} Renumbered by G.S.R. 212(E), dated 20-3-2015 (w.e.f. 01-04-2015)

⁶ Inserted by G.S.R. 709(E), dated 08-10-2014 (w.e.f. 08-10-2014),

(cc) "**E-cart**" means a special purpose battery operated vehicle having three wheels and intended to provide last mile connectivity for carrying goods for hire or reward, provided, -

- (i) Such vehicle is constructed or adapted for carrying goods by providing a separate load body or compartment with a maximum weight of three hundred and ten kilograms kilograms in addition to driver;
- (ii) The net power of its motor is not more than 2000 W;
- (iii) The maximum speed of the vehicle is not more than 25 kilometer per hour;]

⁷[⁸[(d)] "**financier**" means a person or a title holder-cum-dealer who lets a motor vehicle on hire under an agreement of hire purchase or lease or hypothecation to the operator with a permission to get it registered in operator's name as registered owner;]

⁹[(e)] "**Form**" means a Form appended to these rules;

⁹[(f)] "**section**" means a section of the Act;

⁹[(g)] "**trade certificate**" means a certificate issued by the registering authority under rule 35;

⁹[(h)] "**non-transport vehicle**" means a motor vehicle which is not a transport vehicle.

¹⁰ [(i) "Category L" means the motor vehicles with less than four wheels and is a quadricycle;]

¹¹[(ia) "Category L-I" means a motor cycle or a light two wheeled powered vehicle with maximum speed not exceeding 70 kilometer per hour and engine capacity not exceeding 50cc if fitted with a thermic engine or motor power not exceeding 4.0 kilowatts if fitted with electric motor.]

^{10a}[(ib) "**Category L-2**" means a motor cycle other than Category L-1;]

⁷ CI. {aa} inserted by G.S.R. 933(E), dated 28-10-1989 (w.e.f. 28-10-1989), relettered as CI. (d) by G.S.R. 338(E), dated 26-3-1993 (w.e.f. 26-3-1993).

⁸. Substituted by G.S.R. 111(E), dated 10-2-2004, for CI. (d) (w.e.f. 10-2-2004).

⁹. Cls. (b), (c), (d) and (f) relettered as Cls. (e), (f), (g) and (h), respectively by G.S.R. 338(E), dated 26-3-1993 (w.e.f. 26-3-1993).

¹⁰ Inserted by G.S.R. 1192(E), dated 10-12-2018 (w.e.f. 10-12-2018).

^{10a} Re. Nub by G.S.R. 1192(E), dated 10-12-2018 (w.e.f. 10-12-2018).

¹¹ Substituted by G.S.R. 1225(E), dated 20-12-2018 (w.e.f. 20-12-2018).

¹⁰[(ic) "Category L5" means a three wheeled motor vehicle with maximum speed of 25 km/h and engine capacity of 25 cc, if fitted with a thermic engine, or motor power exceeding 0.25 kW, if fitted with electric motor and the vehicle shall normally used for (a) carrying persons; or (b) carrying goods.

Semi-trailer may be attached, where, -

- (a) handle bar or steering wheel is fitted;
- (b) gross vehicle weight is limited to 1,500 kg, subject to the conditions specified in clause (d);
- (c) in the case of semi-trailers being attached to a three wheeled tractor, the gross combination weight be limited to 2,500 kg subject to the conditions specified in clause (d); and
- (d) weight of traction batteries in the case of battery operated three wheelers shall not be taken into account for calculating the GVW or GCW and for the purpose of classification;
- (id) "Category L5-M" means a three wheeler passenger carrier (Auto-Rickshaw) on account of its technical features intended to carry passengers;
- (j) "Category L5-N" means a three wheeler goods carrier on account of its technical features intended to carry goods;

A three wheeler may fall under the category of 'L5-M- Passenger carrier (Auto rickshaw)' or 'L5-NGoods Carriage' depending on the weight of persons including driver for whom seating arrangements are provided is more than or less than the weight of goods carried. three wheeler may fall under the category of L5-N (Goods Carrier), if, -

- (a) a separate load body or compartment is provided for carrying the goods;
- (b) the number of seating positions excluding the driver is not more than three; and
- (c) the weight of goods carried by the vehicle is more than weight of persons carried, as calculated by following formula:

$$P - (A + B \times 68) > B \times 68$$

Where P = Technically permissible maximum laden weight (GVW) (kg)

A= Vehicle weight in the kerb weight condition (as defined in IS 9211:2003, as amended time to time) + 68 kg. In the case of electric vehicles, the weight of traction batteries is to be subtracted from the kerb weight.

B= Number of seating positions excluding the driver;

(k) "**Category M**" means a motor vehicle with at least four wheels used for carrying the passengers;

(l) "**Category M-I**" means a motor vehicle used for carriage of passengers, comprising not more than eight seats in addition to the driver's seat;

Note :- Definitions of type of body work for motor vehicles of category M1 shall be in accordance with ^{11c}[Annex A of IS 14272: 2011], as amended from ^{11c}[time to time. Certificates issued prior to the date of implementation of IS: 14272:2011 in place of AIS: 053:2005 shall continue to be valid.];

(m) "**Category M-2**" means a motor vehicle used for the carriage of passengers, comprising nine or more seats in addition to the driver's seat and having a maximum Gross Vehicle Weight not exceeding 5 tonnes;]

(n) "**Category M-3**" means a motor vehicle used for carriage of passengers, comprising nine or more seats in addition to the driver's seat and having a Gross Vehicle Weight exceeding 5 tonnes;

(o) "**Category N**" means a motor vehicle with at least four wheels used for the carrying goods which may also carry person in addition to the goods subject to the conditions specified in Para 3.2 of ^{11c}[IS 14272: 2011], as amended from ^{11c}[time to time. Certificates issued prior to the date of implementation of IS: 14272:2011 in place of AIS:053:2005 shall continue to be valid.];

(p) "**Category N-I**" means a motor vehicle used for the carriage of goods and having a Gross Vehicle Weight not exceeding 3.5 tonnes;

(q) "**Category N-2**" means a motor vehicle used for carriage of goods and having a Gross Vehicle Weight exceeding 3.5 tonnes but not exceeding 12 tonnes;

(r) "**Category N-3**" means a motor vehicle used for carriage of goods and having a Gross Vehicle Weight exceeding 12 tonnes;

Note – For the motor vehicles, additional details and definitions specified in ^{11c}[IS 14272: 2011], as amended from ^{11c}[time to time. Certificates issued prior to the date of implementation of IS: 14272:2011 in place of AIS:53:2005 shall continue to be valid.] shall be applicable;]

^{11a}[(ra) "**Category -T**" means a non-self propelled driven road vehicle, including a semi-trailer, having at least two wheels which, on account of its

^{11a}. Inserted by G.S.R. 409 (E) dated 18.06.2014 (w.e.f. 18.06.2014).

^{11c} Substituted by G.S.R. 1192(E), dated 10-12-2018 (w.e.f. 10-12-2018).

design and technical features, is used to transport persons or goods and is intended to be towed by a motor vehicle;

(rb) —“**Category T-1**” means a category T vehicle having a maximum weight not exceeding 0.75 tonnes;

(rc) —“**Category T-2**” means a category T vehicle having a maximum weight exceeding 0.75 tonnes but not exceeding 3.5 tonnes;

(rd) —“**Category T-3**” means a category T vehicle having a maximum weight exceeding 3.5 tonnes but not exceeding 10 tonnes;

(re) —“**Category T-4**” means a category T vehicle having a maximum weight exceeding 10 tonnes;

(rf) —“**Category T-5**” means a semi-trailer of category T vehicle intended to be drawn by a three-wheeled haulage tractor.]

^{11b}[(s) “**Smart Card**” means a device capable of storing data and executing commands which is a microprocessor chip mounted on a plastic card and the dimensions of the card and chip are specified in the International Organization for Standardization (ISO)/International Electro Technical Commission (IEC) 7816 specifications, as may be amended from time to time, and shall be as per the specifications specified in Annexure XI.

Explanation.—For the purposes of this clause, microprocessor chip shall have non-volatile re-writable memory capacity of minimum 12[64Kilo Byte consisting of application data, file headers, security definitions, and a maximum of 350 bytes for Operating System Interfacing, as specified by the Ministry of Road Transport and Highways from time to time for Driving Licence and Registration Certificate applications;]

¹²[(r) “**International Driving Permit**” means the licence issued by a licensing authority in India under Chapter II of the Act to an Indian National authorising the person specified therein to drive any categories of motor vehicles as specified in Form 6-A in the areas or territories of countries other than India ^{12b}[that are Parties to the Convention on Road Traffic signed at Genera on 19th day of September, 1949);]

^{11b} Substituted by G.S.R. 513(E), dated 10-8-2004 (w.e.f. 10-9-2004).

¹² Substituted by G.S.R. 504 (E), dated 15.6.2010 for “4 Kilo Byte (ws.e.f. 15.6.2010)

^{12a} Inserted by G.S.R. 720(E), dated 10-9-2003 (w.e.f. 10-9-2003).

^{12b} Substituted by G.S.R. 276 (E), dated 10.46.2007 (ws.e.f. 10.4.2007)

¹³[(u) "**Battery Operated Vehicle**" means a vehicle adapted for use upon roads and powered exclusively by an electric motor whose traction energy is supplied exclusively by traction battery installed in the vehicle:

^{13a}[Provided that a two wheeled battery operated vehicle shall not be deemed to be a motor vehicle if all the following conditions are verified and authorised by any testing agency specified in rule 126, namely:-

(a) vehicle is equipped with an electric motor having thirty minute power less than 0.25 kW;

(b) maximum speed of the vehicle is less than 25 km/hr;

(c) vehicle is fitted with suitable brakes and retro-reflective devices, i.e. one white reflector in the front and one red reflector at the rear;

(d) unladen weight (excluding battery weight) of the vehicle is not more than 60 kg;

(e) in case of pedal assisted vehicle equipped with an auxiliary electric motor, in addition to above, the thirty minute power of the motor is less than 0.25 kW, whose output is progressively reduced and finally cut off as the vehicle reaches a speed of 25 km/hr, or sooner, if the cyclist stops pedalling".]

Explanation.—The thirty minute power of the motor is defined in AIS: 049:2003 and method of verification is prescribed in AIS:041:2003, till the corresponding BIS specifications are notified under the Bureau of Indian Standards Act, 1986 (63 of 1986);

(v) "**Power tiller**" means an agricultural machinery used for soil preparation having a single axle in which the direction of travel and its control for field operation is performed by the operator walking behind it. This equipment may or may not have a riding attachment and when coupled to a trailer can be used for the transportation of goods. The maximum speed of the power tiller when coupled to a trailer, shall not exceed 22 km/h. The maximum haulage capacity of the Power tiller coupled to a trailer shall not exceed 1.5 tons.]

^{13b} [(w)—"**National Capital Region**" shall have the meaning assigned to it to clause (f) of section 2 of the National Capital Region Planning Board Act, 1985 (2 of 1985)]

¹³ Inserted by G.S.R. 589(E), dated 16-9-2005 (w.e.f. 16-9-2005).

^{13a} Substituted by G.S.R. 291(E), dated 24-4-2014 (w.e.f. 24-4-2014).

^{13b} Inserted by G.S.R. 37(E), dated 20-1-2009 (w.e.f. 20-1-2009).

^{13c} [(x) —“**modular hydraulic trailer**” means a trailer module intended for carrying invisible heavy or over-dimensional cargo and having the following features, namely –

- (i) Swing axles with hydraulic suspension;
- (ii) Independently steerable axles
- (iii) Two or more axle rows
- (iv) Suitable arrangement for joining such modules longitudinally or laterally or both;
- (v) Suitable provision for joining, such separate modules with spacer beam arrangement or by bolster arrangement or by girder bridge arrangement or by loading deck arrangement;
- (vi) Suitable drawbar arrangement for being pulled or pushed or self propelled.

Explanation – For the purpose of this clause, the expressions :-

(I) —“spacer beam arrangement” shall mean the arrangement of rigid steel frame used for joining, two separate modular hydraulic trailer units to form a single rigid chassis for movement of long cargo;

(II) “bolster arrangement” shall mean the arrangement of two separate units of modular hydraulic trailer mounted with turn tables and the cargo rests on the turn tables, whereby cargo structure itself acts as long member of trailer chassis;

(III) —“girder bridge arrangement” shall mean the arrangement of two separate units of modular hydraulic trailers mounted with turn tables, and cargo is placed on a steel girder, which is then mounted as modular hydraulic trailer, whereby the steel girder acts as the long member of the trailer chassis;

(IV) —“loading deck arrangement” shall mean the arrangement of two separate units of modular hydraulic trailers mounted with turn tables, and cargo is placed on a loading deck, which is then mounted on both modular hydraulic trailers, whereby the loading deck acts as the long member of the modular hydraulic trailer chassis;

- (vii) Fitted with suitable braking system;

^{13c} Inserted by G.S.R. 212 (E), dated 20.3.2015 (w.e.f. 1.4.2015)

(y) —“**puller tractor**” means a multi-axle haulage tractor of Category N3 vehicle having—

- (i) Suitable arrangement to pull or push modular hydraulic trailer or combination thereof under drawbar arrangement;
- (ii) Adequate ballast weight for providing traction;
- (iii) Minimum engine power of 260 hp; and
- (iv) Maximum speed not exceeding twenty five kilometer per hour while pulling load;]

^{13d}[(z) —“**quadricycle**” means a four wheeled vehicle and having the following features, namely :-

- (i) Fully enclosed body structure with doors and having steering control through steering wheel with the top edge of the doors having atleast 200 mm from adjacent seat base top surface;
- (ii) With sides and top not made of flexible material such as rexin, cloth, plastic, etc;
- (iii) For goods vehicle, cargo body internal area not less than 30% of the vehicle’s width multiplied by its length;
- ^{13e}[(iv) Maximum permissible kerb weight for the purpose of classification shall not exceed 475 kg in case of passenger vehicle and 550 kg in case of goods vehicle;]
- (v) Maximum seating capacity of four (including driver) in case of passenger vehicle and two (including driver) in case of goods vehicle with independent seats provided for the driver and co-passenger in the front row in the case of both passenger vehicle and goods vehicle;
- (vi) Maximum permissible pay load of 550 kg. in case of goods vehicles;
- (vii) Maximum permissible propulsion power of 15 kW of the prime mover be 15 kW, when tested as per Chapter I of Part IV of MoSRTH/TAP 115-116 as amended from time to time for Compression Ignition engines and battery operated vehicles and as per IS:14599-1999 for Spark Ignition engines;
- (viii) Maximum design speed of 70 km. per hour; and
- (ix) Not having trailers or any provision of coupling a semi-trailer.

^{13d}. Inserted by G.S.R. 99 (E), dated 19.2.2014 (w.e.f. 19.2.2014).

^{13e}. Substituted by G.S.R. 518(E), dated 01-06-2018 (w.e.f. 01-06-2018).

Explanation – For the purpose of clause (iv), ^{13f}[the weight shall not include.

- (a) Mass of batteries in the case of electric or hybrid vehicles,
- (b) Mass of gaseous fuel system including tanks for gaseous fuel storage in the case of mono-fuel, bi-fuel or multifuel vehicle”]

¹⁴[(za) – “**Motor Caravan**” means a special purpose category M vehicle constructed to include living accommodation which contains at least the following equipment:-

- (i) seats and table;
- (ii) sleeping accommodation which may be converted from the seats;
- (iii) cooking facilities; and
- (iv) storage facilities,

which may be rigidly fixed to the living compartment.

Provided that the table may be designed to be easily removable;

(zb) – “**Road Ambulance**” means a specially equipped and ergonomically designed vehicle for transportation and/or emergent treatment of sick or injured people and capable of providing out of hospital medical care during transit or when stationary, commensurate with its designed level of care when appropriately staffed;

(zc) – “**School Bus**” means a vehicle with a seating capacity of thirteen passengers and above excluding driver designed and constructed specially for school going children;

(zd) – “**Special Purpose Vehicle (SPV)**” means a vehicle of category L [only in case of Road Ambulance complying to AIS-125 (Part1)-2014], M, N or T having specific technical features in order to perform a function which requires special arrangements and/or equipment.]

^{13f}. Substituted by G.S.R. 518(E), dated 01-06-2018 (w.e.f. 01-06-2018).

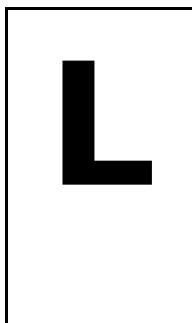
¹⁴. Inserted by G.S.R.868 (e), dated 8.9.2016 (w.e.f. 8.9.2016)

CHAPTER II

Licensing of Drivers of Motor Vehicles

3. General.—The provisions of sub-section *(1) of section 3 shall not apply to a person while receiving instructions or gaining experience in driving with the object of presenting himself for a test of competence to drive, so long as—

- (a) such person is the holder of an effective learner's licence issued to him in Form 3 to drive the vehicle;
- (b) such person is accompanied by an instructor holding an effective driving License to drive the vehicle and such instructor is sitting in such a position to control or stop the vehicle; and
- (c) there is painted, in the front and the rear of the vehicle or on a plate or card affixed to the front and the rear, the letter "L" in red on a white background as under:—



Note.—The painting on the vehicle or on the plate or card shall not be less than 18 centimeters square and the letter "L" shall not be less than 10 centimeters high, 2 centimeters thick and 9 centimeters wide at the bottom:

Provided that a person, while receiving instructions or gaining experience in driving a motor cycle (with or without a side-car attached), shall not carry any other person on the motor cycle except for the purpose and in the manner referred to in clause (b).

14^a[4. Evidence as to the correctness of address and age. — Every applicant for the issue of a licence under this Chapter shall produce as evidence of his address and age, any one or more of the following documents in original or relevant extracts thereof duly ¹⁵[self attested], namely,

^{14a} R. 4 substituted by G.S.R. 338(E), dated 26-3-1993 (w.e.f. 26-3-1993).

¹⁵ substituted by G.S.R. 168(E), dated 03-03-2015 (w.e.f. 03-03-2015).

^{15a}[*** * *]

^{15b}[1a. Aadhar Card]

2. Electoral Roll,

3. Life insurance Policy,

¹⁶[* * *]

4. Passport,

¹⁷[* * *]

6. Pay slip issued by any office of the Central Government or a State Government or a local body,

¹⁷[* * *]

8. School certificate,

9. Birth certificate,

10. Certificate granted by a registered medical practitioner not below the rank of a Civil Surgeon, as to the age of the applicant,

¹⁸[11. Any other document or documents as may be prescribed by the State Government under clause (k) of section 28:]

^{18a}[12. Proof of legal presence in India in addition to proof of residence in case of foreigners]

Provided that where the applicant is not able to produce any of the above-mentioned documents for sufficient reason, the licensing authority may accept any affidavit sworn by the applicant before an Executive Magistrate, or a First Class Judicial Magistrate or a Notary Public as evidence of age and address.]

5. Medical certificate.—¹⁹[(1) Every application for the issue of a learner's licence or a driving licence or for making addition of another class or description of a motor vehicle to a driving licence or for renewal of a driving licence to drive

^{15a} Item No. 1 "1. Ration Card" omitted by G.S.R.589(E), dated 16-9-2005 (w.e.f.16-9-2005).

^{15b} Item No. "1a Aadhar Card" inserted by G.S.R.243((E),dated 20-03-2018 (vv.e.f.01-04-2018).

¹⁶ Item No. 3-A "3-A. Janta Insurance Policy" omitted by G.S.R. 76(E), dated 31-1-2000 (w.e.f. 31-1-2000). Earlier it was inserted by G.S.R. 684(E), dated 15-10-1999 (w.e.f 22-10-1999).

¹⁷ Item No. 5 "5. Electricity or Telephone Bill" and Item No. 7 "7. House Tax Receipt" omitted by G.S.R. 221(E), dated 28-3-2001 (w.e.f. 28-3-2001). Before that Item Nos. 5,6 and 7 were inserted by G.S.R. 76(E), dated 31-1-2000 (w.e.f. 31-1-2000).

¹⁸ Item 11 inserted by G.S.R. 589(E), dated 16-9-2005 (w.e.f. 16-9-2005).

^{18a} Inserted by G.S.R. 276 (E), dated 10.4.2007 (w.e.f. 10.4.2007)

¹⁹ Sub-R. (1) substituted by G.S.R. 221(E), dated 28-3-2001 (w.e.f. 28-3-2001). Before that sub-R (1) substituted by G.S.R. 684(E), dated 5-10-1999 (w.e.f. 5-10-1999).

a vehicle other than a transport vehicle shall be accompanied by a self-declaration as to the physical fitness as in Form 1 and every such application for a licence to drive a transport vehicle shall be accompanied by a medical certificate in Form 1-A issued by a registered medical practitioner referred to in sub-section (3) of section 8.]

²⁰[(2) An application for a medical certificate shall contain a declaration in Form 1.

(3) A medical certificate issued in Form 1-A shall be valid for a period of one year from the date of its issue. It shall be accompanied by a passport size copy of the photograph of the applicant.]

6. Exemption from production of medical certificate.—Any person who has, after the date of commencement of these rules, produced a medical certificate in connection with the obtaining of a learner's licence or a driving licence, whether for initial issuance or for renewal thereof, or for addition of another class of motor vehicles to his driving licence, shall not be required to produce a medical certificate, except where the application is made for the renewal of a driving licence.

7. Affixing of photograph to medical certificate.—A photograph of the applicant shall be affixed at the appropriate place shown in ²¹[Form 1-A] and the registered medical practitioner shall affix his signature and seal to the said photograph in such a manner that the signature and the seal appear partly on the photograph and partly on the form of the medical certificate:

²²[* * *]

[8. Omitted] ²³

^{23a}[8-A. Minimum training required for driving E-rickshaw or E-cart, - Nothing contained in rule 8 shall apply to the applicant for obtaining a licence to drive E-rickshaw or E-cart provided the applicant has undergone training atleast for a

²⁰ Inserted by G.S.R. 933(E), dated 28-10-1989 (w.e.f. 28-10-1989).

²¹ Substituted by G.S.R. 933(E), dated 28-10-1989, for "Form 1" (w.e.f. 28-10-1989).

²² Proviso omitted by G.S.R. 933(E), dated 28-10-1989 (w.e.f. 28-10-1989).

²³ Rule 8 omitted by G.S.R. 681(E), dated 23-09-2019 (w.e.f. 23-09-2019).

^{23a} Inserted by G.S.R. 27 (E), dated 13.1.2015 (w.e.f. 13.1.2015)

period of ten days and obtained a certificate of training from the registered E-rickshaw or E-cart Association, or a manufacturer producing E.rickshaw or E-cart as the case may be].

²¹[9. Educational qualifications for drivers of goods carriages carrying dangerous or hazardous goods. —²⁴[(1) One year from the date of commencement of Central Motor Vehicles (Amendment) Rules, 1993, any person driving a goods carriage carrying goods of dangerous or hazardous nature to human life shall, in addition to being the holder of a driving licence to drive a transport vehicle, also has the ability to read and write at least one Indian language out of those ²⁵[specified in the VIII Schedule of the Constitution] and English and also possess a certificate of having successfully passed a course consisting of following syllabus and periodicity connected with the transport of such goods.

²⁴. Sub-R (1) substituted by G.S.R. 338E(E). dated 26.8.1993 (w.e.f. 26.8.1993)

²⁵ Substituted by G.S.R. 221(E), dated 28-3-2001 (w.e.f. 28-3-2001).

	<i>Period of training</i>	3 days
	<i>Place of training</i>	<i>At any institute recognized by the State Government</i>
	<i>Syllabus</i>	-
A.	<i>Defensive driving</i>	
	<i>Questionnaire</i>	
	<i>Cause of accidents</i>	
	<i>Accidents statistics</i>	
	<i>Drivers personal fitness</i>	
	<i>Car condition</i>	
	<i>Braking distance</i>	
	<i>Highway driving</i>	
	<i>Road/Pedestrian crossing</i>	
	<i>Railway crossing</i>	
	<i>Adapting to weather</i>	
B.	<i>Advanced driving skills and training</i>	
	(i) <i>Discussion Before starting</i>	<i>Check list</i>
		<i>outside/below/near vehicle</i>

		<i>product side</i>
		<i>inside vehicle</i>
	<i>During driving</i>	<i>correct speed/gear</i>
		<i>signaling</i>
		<i>lane control</i>
		<i>overtaking/giving side</i>
		<i>speed limit/safe distance</i>
		<i>driving on slopes</i>
	<i>Before stopping</i>	<i>Safe stopping place, signaling, road width, condition</i>
	<i>After stopping</i>	<i>preventing vehicle movement</i>
		<i>wheel clocks</i>
		<i>vehicle attendance</i>
	²⁶ [<i>Night driving</i>	<i>mandatory lighting requirements</i> <i>headlamp alignment</i> <i>use of dipped beam]</i>
	(ii) <i>Field test/training</i>	<i>1 driver at a time</i>
C.	<i>Product safety UN Panel</i>	<i>UN classification</i> <i>Hazchem code</i> <i>Toxicity, flammability, other definitions</i>
	<i>Product information</i>	<i>Tremcards</i>
		<i>CIS/MSDS</i>
		<i>Importance of temperature pressure, level</i>
		<i>Explosive limits</i>
		<i>Knowledge about equipment</i>
	<i>Emergency procedure</i>	<i>Communication</i>
		<i>Spillage handling</i>
		<i>Use of PPE</i>
		<i>Fire fighting</i>
		<i>First Aid</i>
		<i>Toxic release control</i>
		<i>Protection of wells, rivers, lakes, etc.</i>
		<i>Use of protective equipment</i>
		<i>Knowledge about valves, etc.</i>

²⁶. Substituted by G.S.R. 214 (E), dated 18.3.1999 (w.e.f. 18.3.1999)

(2) The holder of a driving licence possessing the minimum educational qualification or the certificate referred to in sub-rule (1), shall make an application in writing on a plain paper alongwith his driving licence and the relevant certificate to the licensing authority hi whose jurisdiction he resides for making necessary entries in his driving licence and if the driving licence is in Form 7, the application shall be accompanied by the fee ^{26a}[as specified in the Table in rule 32].

(3) The licensing authority, on receipt of the application referred to in sub-rule (2), shall make an endorsement in the driving licence of the applicant to the effect that he is authorised to drive a goods carriage carrying goods of dangerous or hazardous nature to human life.

(4) A licensing authority other than the original licensing authority making any such endorsement shall communicate the fact to the original licensing authority.]

Learner's licence

10. Application for learner's licence.—An application for the grant ²⁷[***] of a learner's licence shall be made in Form 2 and shall be accompanied by,—

- (a) save as otherwise provided in rule 6, a medical certificate in ²⁸[Form 1-A].
 - (b) three copies of the applicant's recent ²⁸[passport size photograph],
 - (c) appropriate fee as specified in rule 32,
- ²⁹ [(d) in the case of an application for transport vehicle excluding E-rickshaw or E-Cart, the driving licence held by the applicant]
- ^{29a} [(e) proof of residence,

^{26a}. Substituted by G.S.R. 1183 (E), dated 29-12-2016 (w.e.f. 29-12-2016)

²⁷. The words "or renewal" omitted by G.S.R. 276(E), dated 10.4.2007 (w.e.f. 10.4.2007)

²⁸. Substituted by G.S.R. 933(E), dated 28-10-1989 (w.e.f. 28-10-1989).

²⁹ Substituted by G.S.R. 27(E), dated 13-1-2015, (w.e.f. 13-15-2015).

^{29a}. Inserted by G.S.R. 276(E), dated 10.4.2007 (w.e.f. 10.4.2007)

(f) proof of age,

³⁰[***]

11. Preliminary test.—(1) Save as otherwise provided in sub-rule (2), every applicant for a learner's licence shall present himself before the licensing authority on such date, place and time, as the licensing authority may appoint, for a test and satisfy such authority that the applicant possesses adequate knowledge and understanding of the following matters, namely:—

- (a) the traffic signs, traffic signals and the rules of the road regulations made under section 118;
- (b) the duties of a driver when his vehicle is involved in an accident resulting in the death or bodily injury to a person or damage to property of a third party;
- (c) the precautions to be taken while passing an unmanned railway crossing; and
- (d) the documents he should carry with him while driving a motor vehicle.

³¹[(1-A) In determining as to whether an applicant possesses adequate knowledge and understanding of the matters referred to in sub-rule (1), the licensing authority shall put to the applicant questions of objective type such as specified in Annexure VI.

Explanation.— For the purpose of this sub-rule, "adequate knowledge" means answering correctly at least 60 per cent of the questions put to him.]

(2) Nothing contained in sub-rule (1) shall apply to the following class of applicants, namely:—

- (a) the holder of an effective driving licence,
- (b) the holder of a driving licence which has expired but five years have not elapsed,

³⁰ Omitted by G.S.R. 708(E), dated 30-8-2010 (w.e.f. 30-8-2010).

³¹ Inserted by G.S.R.933(E), dated 28-10-1989, (w.e.f. 28.10.1989).

- (c) the holder of a learner's licence issued or renewed after the commencement of these rules,
- ³²[(d) the holder of a certificate to the effect of the possession of adequate knowledge and understanding of the matters referred to in sub-rule (1), issued by any institution recognized and notified in this regard by **the State Government.**]

12. Consent of parent or guardian, in the case of application by minor.—In the case of an application for a learner's licence to drive a ³³[motor cycle without gear] by an applicant under the proviso to sub-section (1) of section 4, the application shall be signed by the parent or guardian of the applicant.

13. Form of learner's licence.—Every learner's licence issued by the licensing authority shall be in Form 3.

Driving licence

14. Application for a driving licence.—³⁴[(1)] An application for a driving licence shall be made in ^{34a}[Form 2]and shall be accompanied by,—

- (a) an effective learner's licence to drive the vehicle of the type to which the application relates;
- (b) appropriate fee as specified in rule 32, for the test of competence to drive and issue of licence;
- (c) three copies of the applicant's recent ³⁵[passport size photograph];
- (d) save as otherwise provided in rule6,a medical certificate in ³⁵[Form 1-A];

³² Inserted by G.S.R 221(E), dated 28-3-2001, (w.e.f. 28.3.2001). Earlier Cl. (d) was omitted by G.S.R (76(E), dated 31.1.2000 (w.e.f. 31.1.2000). Before that it was inserted by G.S.R. 684(E), dated 5.10.1999 (w.e.f. 22.10.1999).

³³. Substituted by G.S.R. 76(E), dated 31-1-2000, for "motor cycle with engine capacity not exceeding 50cc" (w.e.f. 31-1-2000). Earlier these words were substituted by G.S.R. 684(E), dated 5-10-1999 (w.e.f. 22-10-1999)

³⁴ R. 14 renumbered as sub-R. (1) thereof by G.S.R 720(E), dated 10-9-2003 (w.e.f. 10-10-2003).

^{34a} Substituted by G.S.R. 243(E), dated 28-03-2018, for certain words (w.e.f. 01-04-2018).

³⁵ Substituted by G.S.R. 933(E), dated 28-10-1989, for certain words (w.e.f. 28-10-1989).

(e) a driving certificate in Form 5 issued by the school or establishment from where the applicant received instruction, if any.

³⁶[(f) proof of residence;

(g) proof of age;

³⁷ [***])

³⁸[(2) An application for an International Driving Permit shall be made in Form 4-A and shall be accompanied by—

(a) valid driving licence issued by the licensing authority under these rules;

^{38a}[(b) appropriate fee as specified in rule 32, for the test, or the subsequent test, as the case may be, of competence to drive for each class and for issue of licence];

(c) three copies of the applicant's recent passport photograph;

(d) a medical certificate in Form 1-A;

(e) valid proof of Indian Nationals; if valid proof of passport; and

(g) valid proof of visa, wherever applicable.]

15. Driving test.—(1) No person shall appear for the test of competence to drive unless he has held a learner's licence for a period of at least ³⁸[thirty days].

(2) The test of competence to drive referred to in sub-section (3) of section 9 shall be conducted by the licensing authority or such other person as may be authorised in this behalf by the State Government in a vehicle of the type to which the application relates.

(3) The applicant shall satisfy the person conducting the test that he is able to—

(a) adjust rear-view mirror;

(b) take suitable precautions before starting the engine;

³⁶ Substituted by G.S.R. 276(E), dated 10.4.2007 (w.e.f. 10.4.2007).

³⁷ Omitted by G.S.R. 708(E), dated 30.6.2010 (w.e.f. 30.6.2010)

³⁸ Inserted by G.S.R. 720(E), dated 10-9-2003 (w.e.f. 10-10-2003).

^{38a} Substituted by G.S.R. 1183 (E), dated 29-12-2016 (w.e.f. 29-12-2016)

³⁸ Inserted by G.S.R. 720(E), dated 10-9-2003 (w.e.f. 10-10-2003)

- (c) move away safely and smoothly straight ahead at an angle, while at the same time engaging all gears until the top gear is reached;
- (d) to change to the lower gears quickly from the top gear when the traffic conditions warrant such change;
- (e) change quickly to lower gears when driving downhill;
- (f) stop and re-start the vehicle on a steep upward incline making proper use of the hand-brake or of the throttle and the foot-brake without any rolling back, turn right and left corners correctly and make proper use of the rear-view mirror before signalling;
- (g) overtake, allow to be overtaken, meet or cover the path of other vehicles safely and take an appropriate course of the road with proper caution giving appropriate signals;
- (h) give appropriate traffic signals at the appropriate time, in clear and unmistakable manner by hand or by electrical indicators fitted to the vehicle;
- (i) change the lanes with proper signals and with due care;
- (j) stop the vehicle in an emergency or otherwise, and in the latter case, bring it to rest at an appropriate course on the road safely, giving appropriate signals;
- (k) in the case of vehicle having a reverse gear, driving the vehicle backwards, reverse it into a limited opening either to the right or left under control and with reasonable accuracy;
- (l) cause the vehicle to face in the opposite direction by means of forward and reverse gears;
- (m) take correct and prompt action on the signals given by traffic signs, traffic lights, traffic controllers, policemen and take appropriate action on signs given by other road users;
- (n) act correctly at pedestrian crossings, which is not regulated by traffic lights or traffic police, by giving preference to persons crossing the roads;

- (o) keep well to the left in normal driving;
- (p) regulate speed to suit varying road and traffic conditions;
- (q) demonstrate general control of the vehicle by confident steering and smooth gear changing and braking as and when necessary;
- (r) make proper use of the rear-view mirror before signalling, beginning manoeuvring, moving away, altering the course to overtake, turning right or stopping;
- (s) use proper side when driving straight, turning right, turning left and at junction of the road;
- (t) make proper use of accelerator, clutch, gears, brakes (hand and foot) steering and horn;
- (u) anticipate the actions of pedestrians, drivers of other vehicles and cyclists;
- (v) take precautions at cross roads and on road junctions with regard to:—
 - (i) adjustment of speed on approach,
 - (ii) proper use of rear-view mirror,
 - (iii) correct positioning of the vehicle before and after turning to the right or left,
 - (iv) avoidance of cutting right hand corners,
 - (v) looking right, left and right again before crossing or emerging;
- (w) concentrate in driving without his attention being distracted and to demonstrate the presence of mind;
- (x) show courtesy and consideration for the safety and convenience of other road users, such as pedestrians, drivers of other motor vehicles or cyclists.

16. Form of driving licence.—(1) Every driving licence issued or renewed by a licensing authority shall be ^{39a}["in form of a laminated card type without a chip or Smart Card type in Form 7 conforming to the specifications stipulated in Annexure XI"];

(2) Where the licensing authority has the necessary apparatus, ³⁹[for the issue of a ^{39a}["Smart Card type driving license], such card type or Smart Card type driving licence, as may be specified in the Notification issued by the concerned State Government or Union Territory Administration,] shall be in Form 7.

^{39b}[***]

⁴⁰[(4) Every International Driving Permit issued by a licensing authority shall be in Form 6- A and shall be valid for a period of not more than one year from the date of issue, as the case may be, or till the validity of the driving licence, whichever is earlier.

(5) The automobile associations authorised by the State Government/ Union Territory Administration shall be allowed to issue International Driving Permit to their own members as also others subject to counter-signature by competent authority.]

^{40a}[(6) Every driving licence issued or renewed by a licensing authority to drive an E-rickshaw or E-cart shall be valid for a period of not more than three years from the date of issue, as the case may be, or till the validity of the driving licence, whichever is earlier].

17. Addition to driving licence.—(1) An application for addition of another class or description of motor vehicle to the driving licence shall be made in ^{40c}[Form 2] to the licensing authority and shall be accompanied by—

- (a) An effective learner's licence and driving licence held by the applicant;

³⁹ Substituted by G.S.R. 400(E), dated 31-5-2002, for certain words (w.e.f. 31-5-2002).

^{39a} Substituted by G.S.R. 174(E), dated 01-03-2019 (w.e.f. 01-10-2019)

^{39b} Omitted Sub. R 3 by G.S.R. 174(E), dated 01-03-2019 (w.e.f. 01-10-2019)

⁴⁰ Inserted by G.S.R. 720(E), dated 10-9-2003 (w.e.f. 10-10-2003)

^{40a}. Inserted by G.S.R. 709(E) dated 8.10.2014 (w.e.f. 8.10.2014)

^{40b} Substituted by G.S.R. 27(E), dated 31.5.2002, for certain words (w.e.f. 31.5.2002)

^{40c} Substituted by G.S.R. 243(E), dated 28-03-2018, for certain words (w.e.f. 01-04-2018).

^{40b}[(b) the driving certificate in Form 5, in the case of an application for addition of a transport vehicle excluding E-rickshaw or E-cart;]

⁴¹[***]

(d) Appropriate fee as specified in rule 32

(2) The provisions of sub-section (1), sub-section (3) and sub-section (4) of section 9 shall, insofar as may be, apply in relation to an application under sub-section (1) as they apply in relation to an application for the grant of a driving licence.

18. Renewal of driving licence.—(1) An application for the renewal of a driving licence shall be made in ^{40c}[Form 2] to the licensing authority having jurisdiction over the area in which the applicant ordinarily resides or carries on business and shall be accompanied by—

- (a) appropriate fee as specified in rule 32;
- (b) ^{42a}[applicant's recent passport size photograph],
- (c) the driving licence,
- (d) the medical certificate in ⁴²[Form 1-A].

(2) Where the driving licence authorises the holder of such licence to drive a transport vehicle as well as any other vehicle, then the licensing authority shall, subject to the production of medical certificate, renew such licence for the appropriate period as specified in sub-section (2) of section 14.

⁴³[(3) Where the licensing authority renewing the driving licence is not the licencing authority who issued the driving licence the fact of the renewal shall be intimated to the licensing authority who issued the driving licence.

Provided that in case the application is for issuance of a duplicate driving licence which has been lost, torn or mutilated such that the identification or authenticity of the document cannot be reasonably established, the licensing authority receiving such application shall on confirmation from the original issuing authority issue the duplicate driving licence.

⁴¹. Cl. (c) omitted by G.S.R. 933(E), dated 28.10.1989 (w.e.f. 28.10.1989)

⁴² Substituted by G.S.R. 933(E), dated 28-10-1989, for certain words (w.e.f. 28-10-1989).

^{42a} Cl.(b) in Sub R Substituted by G.S.R. 174(E), dated 01-03-2019, (w.e.f. 01-10-2019).

⁴³ Inserted by G.S.R. 276(E), dated 10-4-2007 (w.e.f. 10-4-2007).

Provided also that if such confirmation is not received within 60 days, duplicate licence shall be issued, without waiting for the confirmation.

19. Refund of fee.—Where the licensing authority rejects an application for the renewal of a driving licence under sub-section (5) of section 15, it shall refund half of the fee paid for such renewal to the applicant, on an application made by him in that behalf not later than thirty days from the date of receipt of the order rejecting the application.

20. Driving licence to drive motor vehicle belonging to the Defence Department.—The authorities for the purpose of sub-section (1) of section 18 shall be—

- (i) all the officers-commanding of Units of Army of and above the rank of Major;
- (ii) all the officers-commanding of Units of Navy of and above the rank of Lieutenant Commander;
- (iii) all the officers-commanding of Units of Air Force of and above the rank of Squadron Leader.

Disqualification

21. Powers of licensing authority to disqualify.—For the purpose of clause (f) of sub- section (1) of section 19, the commission of the following acts by holder of a driving licence shall constitute nuisance or danger to the public, namely:—

- (1) Theft of motor vehicle.
- (2) Assault on passengers.
- (3) Theft of personal effects of passengers.
- (4) Theft of goods carried in goods carriages.
- (5) Transport of goods prohibited under any law.
- ⁴⁴[(6) Driver, while driving a transport vehicle, engages himself in activity which is likely to disturb his concentration.]
- (7) Abduction of passengers.
- (8) Carrying overload in goods carriages.

⁴⁴. Cl. (6) substituted by G.S.R. 933(E), dated 28.10.1989(w.e.f. 28.10.1989)

- (9) Driving at speed exceeding the specified limit.
- (10) Carrying persons in goods carriage, either inside the driver's cabin in excess of its capacity or on the vehicle, whether for hire or not.
- (11) Failing to comply with the provisions of section 134.
- (12) Failure to stop when signaled to do so by any person authorised to do so.
- (13) Misbehaviour with and showing courtesy to passengers, intending passengers or consignors and consignees of goods.
- (14) Smoking while driving public service vehicles.
- (15) Abandoning vehicle in a public place causing inconvenience to other road users or to passengers in the vehicle.
- (16) Driving vehicle while under the influence of drink or drugs.
- (17) Interfering with any person mounting or preparing to mount upon any other vehicle.
- (18) Allowing any person to sit or placing things in such a way as to impede the driver from having a clear vision of the road or proper control of the vehicle.
- (19) Not stopping a stage carriage at approved stopping places for a sufficient period of time in a safe and convenient position upon demand or signal of the conductor or any passenger desiring to alight from the vehicle and unless there is no room in the vehicle, upon demand or signal of any person desiring to become a passenger.
- (20) Loitering or unduly delaying any journey and not proceeding to the destination as near as may be in accordance with the time table pertaining to the vehicle, or, where there is no such time table, with all reasonable despatch.
- (21) Not driving a contract carriage, in the absence of a reasonable cause, to the destination named by the hirer by the shortest route.
- (22) The driver of a motor cab not accepting the first offer of hire which may be made to him irrespective of the length of the journey for which such offer is made.

(23) The driver of a motor cab demanding or extracting any fare in excess to that to which he is legally entitled or refusing to ply motor cab.

⁴⁵[(24) Abandoning a transport vehicle as a mark of protest or agitation of any kind or strike in a public place or in any other place in a manner causing obstructions and inconvenience to the public or passengers or other users of such places.]

⁴⁶[(25) Using mobile phone while driving a vehicle.]

Endorsement in driving licence

22. Endorsement by Courts.—A Court convicting a holder of a licence, for any one of the offences specified hereunder, shall endorse or cause to be endorsed in the driving licence, the particulars of such conviction, namely:—

- (a) Driving without a licence, or without a licence which is effective, or without a licence applicable to the vehicle driven (section 3).
- (b) Allowing a licence to be used by another person (section 6(2)).
- (c) Driving when disqualified (section 23).
- (d) Driving an unregistered vehicle (section 39).
- (e) Driving a transport vehicle not covered by a certificate of fitness (section 56).
- (f) Driving a transport vehicle in contravention of section 66.
- (g) Driving in contravention of rule 118.
- (h) Failure to comply with provisions of section 114.
- (i) Refusing or failing within specified time to produce licence or certificate of registration (section 130).
- (j) Failing to stop vehicle as required under section 132.

⁴⁵ *CI. (24) substituted by G.S.R. 933(E), dated 28-10-1989 (w.e.f. 28-10-1989).*

⁴⁶ *Inserted by G.S.R. 221(E), dated 28-3-2001 (w.e.f. 28-3-2001).*

- . (k) Obtaining or applying for a licence without giving particulars of endorsement (section 182).
- (l) Driving at excessive speed (section 183).
- (m) Driving dangerously (section 184).
- (n) Driving while under the influence of drink or drugs (section 185).
- (o) Driving when mentally or physically unfit to drive (section 186).
- (p) Abetment of an offence punishable under section 183 or 186.
- (q) Abetment of offence specified in section 188.
- (r) Taking part in an unauthorised race or trial of speed, (section 189).
- (s) Using vehicle in unsafe condition (section 190).
- (t) Driving vehicle exceeding punishable limit or weight (section 194).
- (u) Altering a licence or using an altered licence.
- (v) An offence punishable with imprisonment in the commission of which a motor vehicle was used.

State Register

23. State Register of driving licenses .—(1) Each State Government shall maintain a State Register of driving licences in respect of driving licences issued and renewed by the licensing authorities in the State in Form 10.

(2) Each State Government shall send to the Director (Transport Research), Ministry of Surface Transport, New Delhi, a printed copy of the register referred to in sub-rule (1).

Driving Schools and Establishments

24. Driving schools and establishments.—(1) No person shall establish or maintain any driving school or establishment for imparting instructions for hire

or reward in driving motor vehicles without a licence in Form 11 granted by the licensing authority.

(2) An application for the grant or renewal of a licence under sub-rule (1) shall be made in Form 12 or Form 13, as the case may be, to the licensing authority having jurisdiction in the area in which the school or establishment is situated and shall be accompanied by appropriate fee as specified in rule 32.

Explanation.—For the purposes of this rule and rules 25 to 28 "licensing authority" means an officer not below the rank of the Regional Transport Officer of the Motor Vehicles Department established under section 213.

(3) The licensing authority shall, when considering an application for the grant or renewal of a licence under this rule, have regard to the following matters, namely:—

- (i) the applicant and the staff working under him are of good moral character and are qualified to give driving instructions;
- (ii) the premises where the school or establishment is proposed to be conducted is either owned by the applicant or is taken on lease by him or is hired in his name and it has adequate provision for ⁴⁷[conducting lecture and demonstration of models] besides adequate parking area for the vehicles meant to be used for imparting instructions in driving:

Provided that in respect of schools or establishments imparting instructions in driving of motor vehicles or matters connected therewith immediately before the commencement of these rules, the licensing authority may permit the conducting of instruction facilities in the same premises where the school or establishment is housed for a period of six months, notwithstanding the fact that the premises do not satisfy the conditions laid down in this clause;

- (iii) the financial resources of the proposed school or establishment are sufficient to provide for its continued maintenance;

⁴⁷ Substituted by G.S.R. 933(E), coated 28-10-1989, for "a lecture hall, room for demonstration of models, administrative section, reception room and sanitary block" (w.e.f. 28-10-1989).

- (iv) the applicant owns and maintains a minimum of one motor vehicle each of the type in which instruction is imparted in the school or establishment;
- (v) the vehicles are available exclusively for purposes of imparting instruction and all such vehicles, except motor cycles, are fitted with dual control facility to enable the instructor to control or stop the vehicle;
- vi) the applicant maintains the following apparatus, equipment and other requirements, namely:—
 - (a) a blackboard,
 - (b) a road plan board with necessary model signals and charts,
 - (c) traffic signs chart,
 - (d) chart on automatic signals and signals given by traffic controllers where there are no automatic signals,
 - (e) a service chart depicting a detailed view of all the components of a motor vehicle,
 - (f) engine gear box, 48[brake shoe and drums] (except where the applicant desires to impart instruction in the driving of motor cycles only),
 - (g) puncture kit with tyre lever, wheel brace, jack and tyre pressure gauge,
 - (h) spanners (a set each of fix spanners, box spanners, pliers, screw drivers, screw spanners, and hammer),
 - (i) driving instructions manual,
 - (j) benches and tables for trainees and work bench,
 - ⁴⁹[* * *]
 - ⁴⁹[* * *]
 - (m) a ⁴⁸[collection] of books on automobile mechanism, driving, road safety, traffic regulations, laws relating to motor vehicles and related subjects ⁵⁰[***]

⁴⁸ Substituted by G.S.R. 933(E), dated 28-10-1989, for certain words (w.e.f. 28-10-1989).

⁴⁹ Cls. (k) and (i) omitted by G.S.R. 933(E), dated 28-10-1989 (w.e.f. 28-10-1989).

⁵⁰ The words "both in English and the regional languages" omitted by G.S.R. 933(E), dated 28-10-1989 (w.e.f. 28-10-1989).

(n) a fully equipped first-aid box for use in emergency at the premises;

⁵¹[* * *]

(viii) The applicant or any member of the staff employed by him for imparting instructions possesses the following qualifications, namely:—

(a) a minimum educational qualification of a pass in the 10th standard,

(b) a minimum driving experience of five years in addition to a certificate in a course in motor mechanics or any other higher qualification in mechanical engineering from an institution established by the Central or a State Government or from an institution recognised by the Board of Technical Education of a State Government,

(c) thorough knowledge of traffic signs specified in the Schedule to the Act and the regulations made under section 118,

(d) ability to demonstrate and to explain the functions of different components, parts of the vehicles,

(e) adequate knowledge of English or the regional language of the region in which the school or establishment is situated:

Provided that any person who has served as an instructor for a period of not less than five years immediately before the commencement of these rules, is exempted from the requirements of this sub-clause.

(2) The licensing authority may, on receipt of an application under sub-rule (2) and after satisfying that the applicant has complied with the requirements of sub-rule (3), grant or renew a licence in Form 11 ⁵²[within a period of ninety days from receipt of such an application],

(3) No application for licence shall be refused by the licensing authority unless the applicant is given an opportunity of being heard and reasons for such refusal are given in writing by the licensing authority.

⁵¹ CI. (vii) omitted by G.S.R. 933(E), dated 28-10-1989 (w.e.f. 28-10-1989).

⁵² Inserted by G.S.R. 589(E), dated 16-9-2005 (vv.e.f. 16-10-2005).

25. Duration of a licence and renewal thereof.— A licence granted in Form 11 shall be in force for a period of five years and may be renewed on an application in Form 13 made to the licensing authority which granted the licence not less than sixty days before the date of its expiry:

⁵³[Provided that the validity of the said licence shall be subject to fulfilling the criteria as prescribed by the State Government, which shall be certified by the licensing authority or any other authority as may be prescribed for the purpose by the State Government on an annual basis.]

26. Issue of duplicate licence.—(1) If at any time a licence granted under sub-rule (4) of rule 24 is lost or destroyed, the holder of the licence shall forthwith intimate the loss to the licensing authority which granted the licence and shall apply in writing to the said authority, for a duplicate.

(2) On receipt of an application along with the appropriate fee as specified in rule 32, the licensing authority shall issue a duplicate licence clearly marked "Duplicate".

(3) If after the issue of a duplicate licence, the original is found, the same shall be surrendered forthwith to the licensing authority by which it was issued.

27. General conditions to be observed by the holder of a licence.—The holder of a licence granted under rule 24 shall,—

- (a) maintain on an annual basis, a register in Form 14 and an alphabetical list of the names of the students admitted during the year;
- (b) conduct the training course according to the syllabus specified in rule 31;
- ⁵⁴ [* * *]
- (d) issue to every student who has completed the course a certificate in Form 5;
- (e) submit to the licensing authority which granted the licence such information or return as may be called for by it from time to time for the purposes of this Chapter;

⁵³ *Proviso added by G.S.R. 589(E), dated 16-9-2005 (w.e.f. 16-9-2005).*

⁵⁴ *CI. (c) omitted by G.S.R. 933(E), dated 28-10-1989 (w.e.f. 28-10-1989).*

- (f) not shift the school or establishment from the premises mentioned in the licence without the prior approval in writing of the licensing authority, which granted the licence;
- (g) keep the premises of the school or establishment and the record and registers maintained by it at all reasonable times open for inspection by the licensing authority or by any person authorized in this behalf by the licensing authority;
- (h) exhibit in a conspicuous manner on all the motor vehicles used for imparting instructions the name, full address of the school or establishment and the telephone number, if any, in bold letters;
- (i) maintain a record separately for each trainee showing the number of driving hours spent every day in Form 15;
- (j) display at a prominent place in its office the following:—
 - (i) the licence in original issued to the school or establishment by the licensing authority, and
 - (ii) the names and addresses of instructors employed by the school or establishment;
- (k) not act in a manner calculated to mislead any person making an application to receive instructions from the school or establishment as to his ability to procure a licence for such person other than in accordance with these rules or to connive with any person in acts of commission or omission with a view to circumventing the provisions of this Chapter.

28. Power of the licensing authority to suspend or revoke licence.—(1) If the licensing authority which granted the licence is satisfied, after giving the holder of the licence an opportunity of being heard, that he has—

- (a) failed to comply with the requirements specified in sub-rule (3) of rule 24; or
- (b) failed to maintain the vehicles in which instructions are being imparted in good condition; or
- (c) failed to adhere to the syllabus specified in rule 31 in imparting instruction; or
- (d) violated any other provision of rule 27, it may, for reasons to be recorded in writing, make an order,—

- I. suspending the licence for a specified period; or
- II. revoking the licence.

(2) Where the licence is suspended or revoked under sub-rule (1), the licence shall be surrendered to the licensing authority by the holder thereof.

29. Appeal.—Any person aggrieved by any order of the licensing authority under sub-rule (5) of rule 24, rule 25 or rule 28 may, within thirty days of the date of receipt of such order, appeal to the Head of the Motor Vehicles Department established under section 213.

30. Procedure for appeal.—(1) An appeal under rule 29 shall be preferred in duplicate in the form of a memorandum, setting forth the grounds of objections to the order of the licensing authority and shall be accompanied by a certified copy of the order appealed against and appropriate fee as specified in rule 32.

(2) The appellate authority, after giving an opportunity to the parties to be heard and after such further enquiry, if any, as it may deem necessary, pass appropriate orders ⁵⁵[within a period of forty five days from the date of receipt of such an appeal].

⁵⁵ Inserted by G.S.R. 589(E) dated 16.9.2005 (w.e.f. 16.9.2005)

31. Syllabus for imparting instructions in driving of motor vehicles.—(1) The syllabus for imparting instructions in driving of motor vehicles of the schools or establishments shall be as follows (see tables below):—

A. Driving Theory-I

1.	Know your vehicle	Simple introduction to automobile engines and their working.
2.	Vehicle control	
	Foot controls	Foot brake, accelerator, clutch-dipper (not in present models)
	Hand controls	Steering wheel, hand brake, horn, light, wipers, ignition switch, starter, dipper and indicators
	Other controls	Rear-view mirror (right and left side), instrument cluster, gauges, dials, windscreen-their purpose
3.	Pre-driving checks	(i) Before sitting on driver's seat and (ii) After sitting on driver's seat.
4.	Beginning to drive	Precautions just before moving, While moving Bitting point, Moving, Steering control, Changing of gear, Stopping, Braking, Accelerator (gradual, sudden) Traffic sense, road sense, judgment, parking and positioning according to road users, Reversing.

5.	Driving on the road	Anticipation, judgment and road positioning according to other road users.
6.	Driving at intersections	Mirror Signal and Manoeuvre (MSM) and Position Speed and Look (PSL)
7.	Manoeuvres	Merging and diverging manoeuvres-turning manoeuvres to left, right, about, 3-point turn, 5-point turn and U-turn, overtaking stationary vehicle, moving vehicle in left side and right side
8.	Reversing	Locating reverse gear in sitting position, speed control, steering in reverse gear, weaving the 'S' bend and common errors.
9.	Parking	Parallel, angular, perpendicular, parking facing uphill, parking facing downhill, common errors.
10.	Driver's responsibility on the road	Driving behaviour, consideration for other road-users, courtesy and competitiveness, over-confidence, impatience and defensive driving. Distance between cars while driving at Railway crossing.
11.	Priority for certain vehicles	Emergency vehicles Fire engines, and Ambulance

B. Traffic Education-I

1.	Driving regulations	Road use regulations made under section 118 of the Motor Vehicles Act, 1988
2.	Hand signals	
3.	Traffic signals	Schedule to the Motor Vehicles Act, 1988
4.	Hand signals of Traffic constables/Traffic warden	
5.	Introduction to automatic light signals	
6.	Introduction to road markings	
7.	Speed regulations on highways and city roads	
8.	Parking at objectionable places	
9.	Some important provisions of the Motor Vehicles Act, 1988 - Sections 122, 123, 125, 126 and 128 of the Motor Vehicles Act, 1988.	
10.	Test of competence to drive	Sub-rule (3) of rule 15 of the Central Motor Vehicles Rules, 1989

C. Light Vehicles Driving Practice

1.	Identification of various parts of the vehicles	
2.	Pre-driving checks	(i) Before sitting on driver's seat, and (ii) After sitting on driver's seat.

3.	Steering practice	Push and pull method
4.	Bitting point	
5.	Moving and gear changing	
6.	Stopping	Normal stopping
		Emergency stopping
7.	Developing judgment and anticipation to drive on road	
8.	Reversing	In straight
		In 'S' bends.
9.	Turning about and parking	
10.	Licensing	

D. Vehicle Mechanism And Repairs

1.	Layout of vehicle	
2.	Function of diesel and petrol engines	
3.	Fuel system	Fuel lines
		Fuel injection pump
		Automiser
		Air lock
		Oil block
4.	Cooling system	Purpose
		Radiator
		Water pump
		Fan leaf/fan belt
		Radiator water boiling
		Rectification
5.	Lubrication system	Purpose
		Engine lubrication
		Chassis lubrication
		Oil grade number unit wise.
6.	Transmission system	(a) Clutch: Function
		Slip
		Rising
		Linkages
		(b) Gear box: Function
		Purpose
		Parts

		(c) Propeller shaft:	Function/purpose
			Yoke joint
			C.J.bearing slip
			"U" joint
			Lubrication
		(d) Differential:	Purpose
			Function/Noise.
7.	Suspension system	Purpose	
		Springs	
		Shackle, shackle pin bushes	
		Shock absorber and its bushes.	
8.	Steering system	Purpose	
		Steering geometry	
		Steering linkages	
		Steering box	
9.	Brake system	Purpose	
		Hydraulic brake and its know-how	
		Air assisted hydraulic brake and its know-how	
		Air brake and its know-how	
		Brake adjustment of the entire system	
10.	Electrical system	Battery and its condition	
		Dynamo/Alternator	
		Self-motor-Starter motor regulators	
		Lights-Knowledge to read the charging rate in the Ampere meter.	
11.	Tyres	Study of tyres	
		Maintenance	
		Effect of defective tyres and wheel alignment.	
12.	Instruments cluster, dash board meters and their purposes and functions.		

E. Medium And Heavy Vehicle Driving: Driving Theory-II

1.	Qualities of a good driver	Patience, responsibility, self-confidence, anticipation, concentration, courtesy, defensive driving, knowledge of road rules/regulations, knowledge of vehicle controls, maintenance and simple mechanism.
2.	Knowledge of vehicle	Major controls

	controls	
		Minor controls
3.	Response to controls	Accelerator
		Brake-Gradual/Sudden/Sudden fierce
		Clutch
		Steering
4.	Pre-driving checks	(i) Before sitting on driver's seat, and (ii) After sitting on driver's seat.
5.	Holding steering wheel	Push and pull method practice
		On the move
		While gear changing
		While turning
		While sounding horn
		While operating dash board switches
		While signaling
		On emergency
6.	Gear changing	Double de-clutching, importance and procedure single clutching. Gear up procedure, shifting to lower gears Gear down procedure, shifting to higher gears.
7.	Beginning to drive	I gear II gear III gear IV gear V gear Reverse gear Over drive/optional.
8.	M.S.M and P.S.L Routines	
9.	Manoeuvres	Passing Merging Diverging Overtaking Crossing Turning Cornering Reversing

		Parking
10.	Stopping	Normal stopping
		Emergency stopping
		Use of engine brake/exhaust brake.
11.	Stopping distance	Reaction distance
		Braking distance
12.	Following distance	Meaning
		Distance method
		Car length method
		2 seconds time rule method
13.	Identification, prediction, decision and execution (IPDE) principle	
14.	Defensive driving techniques	Judgment
		Anticipation
		Escape route
15.	Night driving	Location of head light switch
		Procedure
		Obligation to light the lamps, restriction on lighting the lamps.
16.	Hill driving	Starting in hill using the parking brake method
		Slipping the clutch method
		Driving uphill
		Driving downhill.
17.	Emergency manoeuvres	Prevention is better than cure in case of skidding, horn stuck
		Fire, wheels coming out
		Brake failure
		Broken stub axle
		Burst of front tyre
		Sterring wobbling
		Snapping of steering linkages
		Jamming of accelerator pedal
		Snapping of clutch rod
		Under special circumstances like chances of collision with a disabled vehicle
		Brake failure during downhill

		Sudden obstruction in front of the vehicle
18.	Driving under special conditions	In wet weather
		In dawn, dusk and misty roads
		In dense traffic.
19.	Towing (trailer driving)	Procedure
		On tow board
		Speed of towing
		Reversing and positioning the vehicle with trailers.
20.	Fuel saving methods	
21.	Reports-Discussions.	

F. Traffic Education-II

1.	Know your road	Functional classification
		Design speeds
		Road geometrics
		Surface types and characteristics
		Slopes and elevation
2.	Slight distance	At bends
		At intersections.
3.	Road junctions	Principles and types
		T junctions
		Y junctions
		4-Arm junctions
		Staggered junctions
		Controlled junctions
		Uncontrolled junctions
4.	Traffic islands	Types of roundabouts
		Channelisers, median
5.	Bye-pass, subway, over-bridge and fly-overs	Driving procedures.
6.	Bus stop, bus terminus, bus stand	Ingress
		Egress
		Method
7.	Road markings	White line: continuous and broken
		Yellow line
		Land marking
		Zebra crossing

		Stop line
		Parking markings
		Sense of road signals.
8.	Lane selection and lane discipline	
9.	Automatic light signals	
10.	Road users characteristics	Pedestrian, drunkards, children and blind, deaf and dumb Youth, aged women with children Slow-moving vehicles Mopeds and motor cycles Autos, tempos, vans Buses and trucks VIP, ambulance, fire engine Animals.
11.	Accidents	Types of accidents Causes of accidents Preventive methods Driver's duties and responsibilities on the occurrence of accident.
12.	Important provisions in Motor Vehicles Act, 1988 (59 of 1988), Central Motor Vehicles Rules, 1989, and the State Motor Vehicles Rules	Certain definitions Driving license and its renewal Carrying driving license, certificates of registration, fitness and insurance, permit taxation card or tax token and production of such document on demand by checking officers. Traffic offences and penalties stipulated under the Act and Rules Relevant Extracts of Petroleum Act, 1934 City Police Act Indian Penal Code, 1860

G. Public Relations For Drivers

Some basic aspects about ethical and courteous behaviour with other road users

H. Heavy Vehicle Driving Practice

1.	Introduction of various instruments	Dial gauges and controls.
2.	Pre-driving checks	(i) Before sitting on driver's seat, and (ii) After sitting on driver's seat.
3.	Beginning to drive	Bitting point, moving, changing gear including double de-clutch

		steering, stopping, hand signals.
4.	Rural road driving	Application of IBDE-principle
5.	Development of judgment	Passing, overtaking, merging, diverging, M.S.M and P.S.L. routine method of practice, defensive driving technique, proper following.
6.	Development of anticipation	Turning, meeting, entering and emerging in junctions, lane selection and lane discipline, intersection, observation.
7.	Developing skill to drive in crowded streets	
8.	Night driving	
9.	Cross country practice and hill driving	
10.	Internal-trade test.	
11.	Reversing and parking practice	
12.	Licensing	

I. Fire Hazards

Fire-fighting and prevention methods on vehicle

J. Vehicle Maintenance

1.	Factors affecting the vehicle parts due to bad and negligent driving
2.	General day-to-day maintenance and periodical maintenance.
3.	Battery maintenance
4.	Tyre maintenance and tube vulcanizing
5.	Engine tune up
6.	Checking wheel alignment
7.	Brake adjustment
8.	Accelerator, brake, clutch-pedal adjustment
9.	Fan belt adjustments.
10.	Observation of dash-board meters.
11.	Lubrication.
12.	Removal of air lock and oil block.

K. First-Aid

1.	Introduction to first-aid
2.	Outline of first-aid
3.	Structure and functions of the body.
4.	Dressings and bandages
5.	The circulation of the blood.

6.	Wounds and haemorrhage
7.	Haemorrhage from special regions.
8.	Shock.
9.	Respiration
10.	Injuries to bones
11.	Burning scales
12.	Unconsciousness (insensibility)
13.	Poisons

⁵⁶[(2) The lessons for training drivers of non-transport vehicles shall cover Parts A, B, C, F, G and K of the syllabus referred to in sub-rule (1) and the training period shall not be less than twenty-one days:

Provided that in case of motor cycles, it shall be sufficient compliance with the provisions, if portion of Part C of syllabus as applicable to such vehicles are covered.

(3) The lessons for training drivers of transport vehicles shall cover Parts E, F, G, H, I, J and K of the syllabus referred to in sub-rule (1) and the training period shall not be less than thirty days:

Provided that this sub-rule shall not apply in respect of drivers holding driving licence to drive medium goods vehicle or medium passenger motor vehicle who had undergone the lessons after the commencement of this rule, and desiring to obtain a driving licence to drive heavy goods vehicle or heavy passenger motor vehicle.

(4) The actual driving hours for trainees in driving non-transport vehicles shall not be less than ten hours and actual driving hours for trainees in driving transport vehicles shall not be less than fifteen hours:

Provided that in the case of drivers holding driving licence to drive medium goods vehicle or medium passenger motor vehicles undergoing training for heavy motor vehicles, it shall be sufficient if they undergo training in driving for a period of not less than five hours.

⁵⁷[(5) Nothing in this rule shall apply in the case of an applicant whose driving licence authorises him to drive a motor cycle or a three-wheeler non-transport vehicle or a motor car, applying for a licence to drive a motor cab or *****

⁵⁶. Substituted by G.S.R. 933(E) dated 28.10.1989 for Sub-Rr. (2), (3) and (4) w.e.f. 28.10.1989

⁵⁷ Substituted by G.S.R. 338(E), dated 26-3-1993 (w.e.f. 26-3-1993).

the respective type, or in the case of an applicant holding a driving licence to drive a tractor, applying for a licence to drive a tractor-trailer combination.]

(6) Where any trainee possesses first-aid certificate issued by St. John Ambulance Association, he need not undergo Part K of the syllabus referred to in sub-rule (1).]

⁵⁸[**31-A. Temporary licence.**—(1) Where there is no school or establishment as is referred to in sub-section (4) of section 12 or granted a licence under sub-rule (4) of rule 24, in any Taluk within the jurisdiction of the licensing authority, the licensing authority may, notwithstanding any tiling contained in sub-rules (3) and (4) of rule 24 or rule 25, grant a temporary licence to any establishment or any person for imparting instructions in the driving of a transport vehicle, subject to the following conditions, namely:—

- (a) the temporary licence shall be valid for a period of one year from the date of its issue: Provided that as long as the Taluk does not have any school or establishment, the licensing authority may renew a temporary licence granted under this sub-rule for a further period not exceeding one year at a time;
- (b) the person imparting instructions in the driving of a transport vehicle shall possess the following qualifications, namely:—
 - (i) a minimum driving experience of five years in the class of vehicles in which instructions are proposed to be imparted;
 - (ii) adequate knowledge of the regional language of the region in which the school or establishment is situated;
 - (iii) thorough knowledge of traffic signs specified in the Schedule to the Act and the Regulations made under section 118;
 - (iv) ability to demonstrate and explain the functions of different components and parts of a vehicle;
- (c) the applicant shall maintain a motor vehicle each of the type in which the instruction is imparted and also the following apparatus, namely:—
 - (i) a blackboard;
 - (ii) traffic sign chart;

⁵⁸.Inserted by G.S.R. 933(E), dated 28.10.1989 (w.e.f. 28.10.1989)

- (iii) a service chart depicting a detailed view of all the components of a motor vehicle;
- (iv) puncture kit with tyre lever, wheel brace, jack;
- (v) spanners (a set each of fixed spanners, box spanners, screw driver, screw spanners and hammer).

(2) The driving schools run by a State Transport Undertaking or an Industrial Training Institute set up by the Central Government or any State Government and other establishments run by the Central Government or a State Government which have facilities for imparting training for drivers, shall be authorised to issue driving certificates in Form 5, subject to the condition that the training imparted in these schools shall be in accordance with the syllabus referred to in rule 31.]

59[32. Fees.]— The fees which shall be charged under the provisions of this Chapter shall be as specified in the table below:

Provided that the States may levy ⁶⁰[fee lower than the amount specified in the table and may also levy] additional amounts to cover the cost of automation and technology utilised for conducting the testing or providing value added services.

59[TABLE]

Sl. No.	Purpose	Amount	Rule	Section
(1)	(2)	(3)	(4)	(5)
1.	Issue of learner's licence in Form 3 for each class of vehicle	One hundred and fifty rupees	10	8
2.	Learner's licence test fee or repeat test fee, as the case may be	Fifty rupees		27(q)
3.	For test, or repeat test, as the case may be, of competence to drive (for each class of vehicle)	Three hundred rupees	14 (1)(b)	9
4.	Issue of a driving licence	Two hundred rupees	14 (1)(b)	9
5.	Issue of International Driving Permit	One thousand rupees	14(2)(b)	9
6.	Addition of another class of vehicle to driving licence	Five hundred rupees	17(1)(d)	11
7.	Endorsement or renewal of authorization for vehicle carrying hazardous goods	One hundred rupees	9	27(q)
8.	Renewal of driving licence	Two hundred rupees	18(1)(a)	15
9.	Renewal of a driving licence for which application is made after the grace period	Three hundred rupees. Note:- Additional fee at the rate of one thousand rupees for delay of each year or part thereof reckoned from the date of		15

		expiry of the grace period shall be levied.		
10.	Issue or renewal of licence to a school or establishment for imparting instructions in driving	Ten thousand rupees	24(2)	12
11.	Issue of duplicate licence to a school or establishment for imparting instructions in driving	Five thousand rupees	26(2)	12
12.	An appeal against the orders of licensing authority referred to in rule 29	Five hundred rupees	30(1)	17
13.	Any application for change in address or any other particulars recorded in the driving licence e.g. address etc.	Two hundred rupees		27(q)

- Note.** 1. Where a Smartcard Type driving licence is issued in Form 7, an additional fee of two hundred rupees shall be levied.
2. The fees specified at serial numbers 1, 2 and 3 of the Table above shall be paid collectively at the time of submission of application for issue of learner's licence or driving licence.";

⁵⁹ Substituted by G.S.R. 1183(E) dated 29.12.2016, (w.e.f 29.12.2016)

⁶⁰ Inserted by G.S.R. 271(E) dated 21-03-2017, (w.e.f 21-03-2017)

CHAPTER III

REGISTRATION OF MOTOR VEHICLES

Trade certificate

33. Condition for exemption from registration.—For the purpose of the proviso to section 39, a motor vehicle in the possession of a ⁶¹[dealer or manufacturer of automobile or automobiles ancillaries or a test agency specified in rule 126] shall be exempted from the necessity of registration subject to the condition that he obtains a trade certificate from the registering authority having jurisdiction in the area in which the ⁶¹[dealer or manufacturer of automobiles or automobile ancillaries or a test agency specified in rule 126] has his place of business in accordance with the provisions of this Chapter.

34. Trade certificate.—(1) An application for the grant or renewal of a trade certificate shall be made in Form 16 and shall be accompanied by the appropriate fee as specified in rule 81.

(2) Separate application shall be made for each of the following classes of vehicles, namely:—

- (a) motor cycle;
- (b) invalid carriage;
- (c) light motor vehicle;
- (d) medium passenger motor vehicle;
- (e) medium goods vehicle;
- (f) heavy passenger motor vehicle;
- (g) heavy goods vehicle;
- (h) ⁶²[E-rickshaw;
- (i) E-cart;
- (j) any other motor vehicle of a specified description.]

35. Grant or renewal of trade certificate.—(1) On receipt of an application for the grant or renewal of a trade certificate in respect of a vehicle, the registering authority may, if satisfied that the applicant is a bona fide ⁶³[dealer or

⁶¹. Substituted by G.S.R. 290 (E), dated 24-4-2014 (w.e.f. 24-4-2014).

⁶². Substituted by G.S.R. 27 (E), dated 13-1-2015 (w.e.f. 13-1-2015).

⁶³. Substituted by G.S.R. 291 (E), dated 24-4-2014 (w.e.f. 24-4-2014).

manufacturer of automobile or automobiles ancillaries or a test agency specified in rule 126] and requires the certificates specified in the application, issue to the applicant one or more certificates, as the case may be, in Form 17⁶⁴[within thirty days from the date of receipt of such an application] and shall assign in respect of each certificate a trade registration mark consisting of the registration mark referred to in the notification made under sub-section (6) of section 41 and followed by two letters and a number containing not more than three digits for each vehicle, for example:-

AB— Represent State Code.

12— Registration District Code.

TCI— Trade certificate number for the vehicle.

(2) No application for trade certificate shall be refused by the registering authority unless the applicant is given an opportunity of being heard and reasons for such refusal are given in writing

36. Refund.—Where the registering authority refuses to issue or renew a trade certificate, it shall refund to the applicant fifty per cent of the fee paid along with the application.

37. Period of validity.—A trade certificate granted or renewed under rule 35 shall be in force for a period of twelve months from the date of issue or renewal thereof and shall be effective throughout India.

38. Issue of duplicate certificate.—(1) If at any time the trade certificate is lost or destroyed, its holder shall report to the police station in the jurisdiction of which the loss or destruction has occurred and intimate the fact in writing to the registering authority by whom the certificate was issued and apply in Form 18 to the said authority for a duplicate certificate accompanied by the appropriate fee as specified in rule 81.

(2) On receipt of an application alongwith the fee, the registering authority may issue a duplicate "Trade Certificate" clearly "marked "Duplicate".

(3) If after the issue of a duplicate certificate the original is traced, the same shall be surrendered forthwith to the registering authority by which it was issued.

⁶⁴. Inserted by G.S.R. 589 (E), dated 16-9-2005 (w.e.f. 16-10-2005).

39. Use of trade registration mark and number.—(1) A trade registration mark and number shall not be used upon more than one vehicle at a time or upon any vehicle other than a vehicle bona fide in the possession of the ⁶⁵[dealer or manufacturer of automobiles or automobile ancillaries or a test agency specified in rules 126.] in the course of his business or on any type of vehicle other than the one for which the trade certificate is issued.

(2) The trade certificate shall be carried on a motor vehicle in a weatherproof circular folder and the trade registration mark shall be exhibited in a conspicuous place in the vehicle.

40. Restrictions on use of trade certificate or trade registration mark and number.—A trade certificate shall be used only by the person to whom it is issued and such person shall not allow or offer or cause the certificate or the number assigned in connection therewith to be used by any other person:

Provided that the provision of this rule shall not apply where the person to whom the certificate is granted, or a person bona fide in his employment and acting under his authority, or any other person bona fide acting on behalf of the holder of a trade certificate is present in the vehicle, or if such vehicle is designed for use by only one person and is being used by a prospective purchaser of that vehicle for the purpose of reasonable test or trial.

41. Purposes for which motor vehicle with trade certificate may be used.— The holder of a trade certificate shall not use any vehicle in a public place under that certificate for any purpose other than the following:—

- (a) for test, by or on behalf of the holder of a trade certificate during the course of, or after completion of, construction or repair; or
- (b) for proceeding to or returning from a weigh bridge for or after weighment, or to and from any place for its registration; or
- (c) for a reasonable trial or demonstration by or for the benefit of a prospective purchaser and for proceeding to or returning from the place where such person intends to keep it; or

⁶⁵. Substituted by G.S.R. 291 (E), dated 24-4-2014 (w.e.f. 24-4-2014).

- (d) for proceeding to or returning from the premises of the dealer or of the purchaser or of any other dealer for the purpose of delivery; or
- (e) for proceeding to or returning from a workshop with the objective of fitting a body to the vehicle or painting or for repairs; or
- (f) for proceeding to and returning from airport, railway station, wharf for or after being transported; or
- (g) for proceeding to or returning from an exhibition of motor vehicles or any place at which the vehicle is to be or has been offered for sale; or
- (h) for removing the vehicle after it has been taken possession of by or on behalf of the financier due to any default on the part of the other party under the provisions of an agreement of hire-purchase, lease or hypothecation.

42. Delivery of vehicle subject to registration.—No holder of a trade certificate shall deliver a motor vehicle to a purchaser without registration, whether temporary or permanent.

43. Register of trade certificate.—(1) Every holder of a trade certificate shall maintain a register in Form 19 in duplicate which shall be in a bound book, with pages numbered serially.

(2) The particulars referred to in Form 19 except the time of return under column 7, shall be entered in the register before the commencement of each trip by the holder of the trade certificate or his representative and a duplicate copy of Form 19 made prior to the commencement of each trip shall be carried during the trip by the driver of the vehicle and shall be produced on demand by any officer empowered to demand production of documents by or under the Act.

(3) The holder of a trade certificate shall, at the end of a trip, fill in column 7 of Form 19 (both original and duplicate), and the register and the duplicate shall be open for inspection by the registering authority.

44. Suspension or cancellation of trade certificate.—If the registering authority has reason to believe that the holder of any trade certificate has not complied

with the provisions of rules 39 to 43, it may, after giving the holder an opportunity of being heard, suspend or cancel the trade certificate held by him.

45. Appeal.—Any person aggrieved by an order of the registering authority under rule 35 or rule 44 may, within thirty days of the receipt of any such order, appeal to the head of the Motor Vehicles Department established under section 213.

46. Procedure for appeal.—(1) The appeal referred to in rule 45 shall be preferred in duplicate in the form of a memorandum, setting forth the grounds of objections to the order of the registering authority and shall be accompanied by appropriate fee as specified in rule 81 and a certified copy of the order appealed against.

(2) The appellate authority, after giving an opportunity to the parties to be heard and after such enquiry, if any, as it deems necessary, pass appropriate orders ⁶⁶[within the period of thirty days from the date of receipt of such an appeal].

Registration

47. Application for registration of motor vehicles.—(1) An application for registration of a motor vehicle shall be made in Form 20 to the registering authority within a period of ⁶⁷[seven days] from the date of taking delivery of such vehicle, excluding the period of journey and shall be accompanied by—

- (a) sale certificate in Form 21;
- (b) valid insurance certificate;
- ⁶⁸[(c) copy of the proceedings of the State Transport Authority or Transport Commissioner or such other authorities as may be prescribed by the State Government for the purpose of approval of the design ^{68a}[in the case of a trailer other than a vehicle of category T;]
- (d) original sale certificate from the concerned authorities in Form 21 in the case of ex-army vehicles;

⁶⁶. Inserted by G.S.R. 589 (E), Dated 16-9-2005 (w.e.f. 16-10-2005).

⁶⁷. Substituted by G.S.R 933 (E), dated 28-10-1989, for "two days" (w.e.f. 28-10-1989).

⁶⁸ CI. (c) Substituted by G.S.R. 338 (E), dated 26-3-1993 (w.e.f. 26-3-1993)

^{68a}. Substituted by G.S.R. 409 (E), dated 18-6-2014 (w.e.f. 18-6-2014).

- (e) proof of address by way of any one of the documents referred to in rule 4;
- (f) temporary registration, if any;
- (g) road-worthiness certificate in Form 22 from the manufacturers,⁶⁹[Form 22-A from the body builders]
^{69a}**[and, in case of self-certification of the bus body built on a drive away chassis by a bus body structure fabricator, certificate of compliance in Form 22B];**
- ⁷⁰[(h) custom's clearance certificate in the case of imported vehicles along with the licence and bond, if any:

Provided that in the case of imported vehicles other than those imported under the Baggage Rules, 1998, the procedure followed by the registering authority shall be same as those procedure followed for registering of vehicles manufactured in India, and]

- (i) appropriate fee as specified in rule 81;
^{70aa}[(ia) proof of fitment of FASTag specified in rule 138A;]
^{70a}[(j) proof of citizenship;
- (k) proof of legal presence in India in addition to proof of residence in case of foreigners;]
^{70b}(l) technical specifications and any other document as may be required by the registration authority in respect of the modular hydraulic trailer;]

^{70c} [Provided that upto 31st December 2016, on and from the date of publication of the Central Motor Vehicles (Amendment) Rules, 2015, published on 15th January 2015, in respect of the models of the E-rickshaw and E-carts exiting prior to publication of the Central Motor Vehicles (Sixteen Amendment) Rules, 2014 and the notification published vide S.O. 2590 (E), dated the 8th October,2014, the application for registration under this sub-rile shall be made

⁶⁹. *Added by G.S.R 338 (E), dated 26-3-1993, for "two days" (w.e.f.26-3-1993).*

^{69a}. *Inserted by G.S.R. 368 (E), dated 13-04-2018 (w.e.f. 13-04-2018).*

⁷⁰. *CI. (h) Substituted by G.S.R. 83 (E), dated 5-2-2003 (w.e.f. 5-2-2003).*

^{70a}. *Inserted by G.S.R. 276 (E), dated 10-4-2007 (w.e.f. 10-4-2007).*

^{70aa}. *Inserted by G.S.R.1361(E), dated 02-11-2017 (w.e.f. 02-11-2017).*

^{70b}. *Substituted by G.S.R. 212 (E), dated 20-3-2005 (w.e.f. 20-3-2005).*

^{70c}. *Substituted by G.S.R. 903 (E), dated 23- 9-2016 (w.e.f.213-9-2016).*

in Form 20 to the registering authority within a period of seven days from the date of issue of Form 21 and Form 22 and shall be accompanied by –

- (i) road worthiness certificate in Form 22 to be issued by the manufacturer or dealer or registered E-rickshaw or E-cart Association or any agency authorised by State Government; and
- (ii) sale certificate in Form 21 to be issued by manufacturer or dealer or registered E-rickshaw or E-cart Association or any agency authorised by State Government for presentation along with the application for registration.]

(2) In respect of vehicles temporarily registered, application under sub-rule (1) shall be made before the temporary registration expires.

^{70d}[(3) On and from the 1st January, 2015, every vehicle manufacturer shall, in accordance with Form 20, Form 22 and Form 22-A, upload the vehicle details in the portal <https://www.vahan.nic.in/makermode>.]

^{70da}[^{70e} [(4) The modular hydraulic trailers registered under these rules shall ply in public place in laden condition subject to such other condition as may be determined by the Central Government from time to time.]]

^{70ea}[(5) All types of trailers and semitrailers covered under rule 125D, shall be registered independently.

Provided that, if the owner or registering party, requests to register the trailer or semitrailer jointly with compatible towing vehicle as a single vehicle, the registering authority shall register them as a single vehicle.]

^{70f}[(5) On and from the commencement of this sub-rule, every bus body builder shall upload the bus body details against the relevant drive away chassis on the portal <https://www.vahan.nic.in/makermode>.]

48. Issue of certificate of registration.—On receipt of an application under rule 47 and after verification of the documents furnished therewith, the registering authority shall, subject to the provisions of section 44, issue to the owner of the

^{70d}. Inserted by G.S.R 810(E), dated 17-11-2014 (w.e.f. 17-11-2014).

^{70da}. Inserted by G.S.R 212(E), dated 20-03-2017 (w.e.f. 01-04-2015)

^{70e}. Substituted for " (3) The modular hydraulic trailers registered under these rules" vide G.S.R. 1482(E), dated 07-12-2017(w.e.f. 07-12-2017).

^{70ea}Inserted by G.S.R 1482(E), dated 07-12-2017 (w.e.f. 07-12-2017).

^{70f}Inserted vide G.S.R 368(E), dated 13-04-2018 (w.e.f 13-04-2018)

motor vehicle a certificate of registration in ⁷¹[Form 23A conforming to the specifications stipulated in Annexure XI], as may be specified in the Notification issued by the concerned State Government or Union Territory Administration] ⁷²[within the period of thirty days from the receipt of such an application:

^{72a}[Provided that where the certificate of registration pertains to a transport vehicle it shall be handed over to the registered owner only after recording the certificate of fitness in Form 38 ⁷²[within the period of thirty days from the date of receipt of such an application].

49. Registration records to be kept by the registering authority.—^{72b}[(1) Every registering authority shall keep in Form 24 a permanent register of motor vehicles registered by it under section 41 and of motor vehicles of other States for which new registration marks are assigned by it under sub-section (2) of section 47 and shall also enter in such record under the respective registration numbers, all changes made with reference to the provisions of sub-section (10) or sub-section (14) of section 41, sub-section (5) of section 49, sub-section (6) of section 50, sub-sections (1), (2), (3) and (5) of section 51, sub-section (4) of section 52, orders of suspension under section 53 and order of cancellation under sections 54 and 55.

^{72b}[(2) Every registering authority shall after registration of a vehicle, including agricultural tractor, power tiller and construction equipment vehicles, upload the registration details of the vehicle on the portal <https://www.vahan.nic.in/makermode>:

Provided that such data entry processing through the portal for registration of motor vehicles shall be effective from the 1st February, 2015:

Provided further that the State Government may continue the practice of existing registration procedure till the 1st October, 2015.]

73[50. Form and manner of display of registration marks on the motor vehicles.—⁷⁴[(1) On or after commencement of this rule, the registration mark referred to in sub-section (6) of section 41 shall be displayed both at the front and at the rear of all motor vehicles clearly and legibly in the form of security license plate of the following specifications, namely:—

⁷¹. Substituted by G.S.R. 174(E), dated 01-03-2019, for "Form 23 or Form 23a" (w.e.f.01-10-2019).

⁷². Added by GSR. 589(E), dated 16-9-2005 (w.e.f. 16-9-2005).

^{72a}. Added by G.S.R. 338(E), dated 26-3-1993 (w.e.f. 26-3-1993).

^{72b}. R. 49 renumbered as sub-R. (1) thereof and sub-R. (2) inserted by G.S.R. 810(E), dated 17-11- 2014 (w.e.f.17-11-2014).

⁷³. Substituted by G.S.R. 338(E), dated 26-3-1993 (w.e.f. 26-3-1993).

⁷⁴. Sub-R. (1) substituted by G.S.R. 221(E), dated 28-3-2001 as amended by S.O. 938(E), dated 24-9-2001, S.O. 499(E), dated 9-5-2002 and S.O. 59(E), dated 21-1-2003 (w.e.f. 1-1-2004).

- (i) the plate shall be a solid unit made of 1.0 mm aluminium conforming to DIN 1745/DIN 1783 or ISO 7591. Border edges and corners of the plate shall be rounded to avoid injuries to the extent of approx. 10 mm and the plates must have an embossed border. The plate shall be suitable for hot stamping and reflective sheet has to be guaranteed for imperishable nature for minimum five years. The fast colouring of legend and border to be done by hot stamping;
- (ii) the plate should bear the letters "IND" in blue colour on the extreme left centre of the plate. The letter should be one-fourth of the size of letters mentioned in rule 51 and should be buried into the foil or applied by hot stamping and should be integral part of the plate;
- (iii) each plate shall be protected against counterfeiting by applying chromium-based hologram, applied by hot stamping. Stickers and adhesive labels are not permitted. The plate shall bear a permanent consecutive identification number of minimum seven digits, to be laser branded into the reflective sheeting and hot stamping film shall bear a verification inscription;
- (iv) apart from the registration marks on the front and rear, the third registration mark in the form of self-destructive type, chromium based hologram sticker shall be affixed on the left-hand top side of the windshield of the vehicle. The registration details such as registration number, registering authority, etc., shall be printed on the sticker. The third registration mark shall be issued by the registering authorities/approved dealers of the licence plates manufacturer alongwith the regular registration marks, and thereafter if such sticker is destroyed, it shall be issued by the licence plate manufacturer or his dealer:
- (v) the plate shall be fastened with non-removable/non-reusable snap lock fitting system on rear of the vehicle at the premises of the registering authority; The license plates with all the above specifications and the specified registrations for

a vehicle shall be issued by the registering authority or approved the license plates manufacturers or their dealers. The Central Road Research Institute, New Delhi or any of the agency authorized by the Central Government shall approve the license plates manufacturers to the above specification;

(vi) the size of the plate for different categories of vehicles shall be as follows:—

^{74a} [For ^{74b} [two and three-wheelers, quadricycles, E-rickshaws and E-carts]	200 x 100 mm
For Light Motor Vehicles/Passenger cars	340x200mm/500x 120 mm
For medium commercial vehicles, heavy commercial vehicles and Trailer/combination	340 x 200 mm:

Provided that this sub-rule shall apply to already registered vehicles two years from the date of commencement:]

⁷⁵[Provided further that the size of the registration plates for agricultural tractors shall be as follows:—

Front -	285x45 mm
Rear -	200x100 mm]

^{75a}[Provided also that the size of registration plate for combine harvester shall be 340 mm x 200 mm and exhibited at the front and at the rear of combine harvester and at the rear of trailer for header assembly used during transport:]

⁷⁶[Provided also that the size of registration plate for power tiller shall be 285x45 mm and shall be exhibited at the front. Further, in case of trailer coupled to power tiller, the size of registration plate shall be 200x100 mm and shall be exhibited on its rear:]

⁷⁷[Provided also that in case of a motor cycle, the size of 285x45 mm for front registration plate shall also be permitted.]

^{74a}. Substituted by G.S.R. 99(E), dated 19-2-2014 (w.e.f. 1-10-2014)

^{74b}. Substituted by G.S.R. 709(E), dated 8-10-2014 (w.e.f. 8-10-2014).

⁷⁵. Inserted by G.S.R. 720(E), dated 10-9-2003 (w.e.f. 10-10-2003).

^{75a}. Inserted by G.S.R. 212(E), dated 20-3-2015 (w.e.f. 20-3-2015).

⁷⁶. Inserted by G.S.R. 589(E), dated 16-9-2005 (w.e.f. 16-9-2006).

⁷⁷. Inserted by G.S.R. 589(E), dated 16-9-2005 (w.e.f. 16-9-2005).

2) In the case of motor cycles the registration mark in the front shall be displayed parallel to the handle bar or on any part of the vehicle including mudguard facing the front instead of, on a plate in line with the axis of the vehicle:]

Provided that—

- (a) the registration mark exhibited at the rear of a transport vehicle shall be affixed to the vehicle on the right hand side at a distance not exceeding one metre from the ground as may be reasonably possible having regard to the type of the body of the vehicle;
- (b) the registration mark shall also be painted on the right and left side on the body of the vehicle in the case of a transport vehicle;
- (c) the registration mark shall also be painted and exhibited on the partition provided between the driver and the passengers, facing the passengers' seats or, where there is no such partition, on the front interior of the vehicle near the roof to the left side of the driver's seat facing the passengers' seats in the case of a stage carriage or a contract carriage and in the case of a motor cab or a taxi cab it shall be sufficient if the registration mark is painted on the dash-board;

⁷⁸[(d) the letters of the registration mark shall be in English and the figures shall be in Arabic numerals and shall be shown:—

- (A) in the case of transport vehicles in black colour on yellow background; and
- (B) in other cases, in black colour on white background,

the registration mark on the trailer shall be exhibited on the left hand side in black colour on yellow background. In addition, the registration mark on the drawing vehicle shall be exhibited on the trailer also and this shall be done on the right hand side at the rear of the trailer or the last trailer as the case may be, in black colour on retro-reflective type yellow background:

⁷⁸. CI. (d) substituted by G.S.R. 901(E), dated 13-12-2001 (w.e.f. 13-12-2001). Earlier CI. d) was substituted by G.S.R. 221(E), dated 28-3-2001 (w.e.f. 28-3-2001).

Provided that where provisions of this clause have not been complied with in respect of motor vehicle, on or before the commencement of the Central Motor Vehicles (8th Amendment) Rules, 2001, then the provisions shall be complied with,—

- (i) in respect of transport vehicle, on or before 1st February, 2002; and
- (ii) in other cases, on or before 1st July, 2002.]

^{78a}[2A. In case of Battery Operated Vehicles, the registration mark shall be exhibited in Yellow colour on Green background for transport vehicles and for all other cases, in White colour on Green background.”]

⁷⁹[(3) The registration mark shall be exhibited in two lines, the State code and registering authority code forming the first line and the rest forming the second line, one below the other:

^{79a}[Provided that the registration mark in the front may be exhibited in one line in case, in 200mm x 100mm size plate, there is no sufficient space to exhibit the registration mark in one line, the alpha numeric of the registration mark shall be displayed as under:

- (i) Where the total number of alpha numeric characters in the registration mark is even, then, equal number of alpha numeric character in each line; and
- (ii) Where the total number of alpha numeric characters in the registration mark is odd, then any extra alpha numeric character shall be exhibited on the second line, and all dimensions shall be maintained as per rule 51 without disturbing security features in the plate:]

Provided further that in models of vehicles having no sufficient provision at the rear to exhibit the registration mark in two lines, it shall be sufficient if in such vehicles registration mark is exhibited in a single line:

Provided further that registration mark on a light motor vehicle may be in the centre with illumination.

(4) Every motor vehicle, except motor cab and motor car, manufactured

^{78a}. Inserted by G.S.R.749(E), dated 07-08-2018 (w.e.f. 07-08-2018).

⁷⁹. Added by G.S.R. 338(E), dated 26-3-1993 (w.e.f. 26-3-1993).

^{79a}. Substituted by G.S.R. 324(E), dated 7-5-2014 (w.e.f. 7-5-2014).

on and from the date of commencement of the Central Motor Vehicles (Amendment) Rules, 1993, shall be provided with sufficient space in the rear for display of registration mark in two lines.

(5) In case of agricultural tractors, the registration mark need not be inclined to the ⁸⁰[vertical plane by more than 45 degrees.]

(6) The registration mark of the drawing agricultural tractor may not be exhibited on the agricultural trailer or trailers.]

^{80a} [(7) The registration mark of the modular hydraulic trailer may not be exhibited on the puller tractor.]

⁸¹[51. Size of letters and numerals of the registration mark.]—The dimension of letters and figures of the registration mark and the space between different letters and numerals and letters and edge of the plain surface shall be as follows:—

Sl.No.	Class of vehicle	Dimensions not less than		
		Height	Thickness	Space between
(1)	(2)	(3)	(4)	(5)
1	All motor cycles and three-wheeled invalid carriages	Rear-letters	35	7
2	All motor cycles and three-wheeled invalid carriages	Rear-numeral	40	7
3	Motorcycles with engine capacity less than 70 cc	Front-letters & numerals	15	2.5
4	Other motor cycles	Front-letters & numerals	30	5
5	⁸² Three wheelers of engine capacity not exceeding 500 cc ^{82a} [E-rickshaw and E-cart]	Rear and front numerals and letters	35	7
6	Three-wheelers of engine capacity exceeding 500 cc	Rear and front numerals and letters	40	7
7	All other motor vehicles	Rear and front numerals and letters	65	10
8	⁸³ [Power tillers	Front-letters & numerals	15	2.5
9	Trailers coupled to power trillers	Rear letters and numerals	30	5
10	^{83a} [Combine harvester	Front and rear letters and numerals	65	10
11	Trailer for header assembly of combine harvester	Rear letters and numerals	65	10

⁸⁰. Substituted by G.S.R. 111(E), dated 10-2-2004, for "vertical by more than 30 degrees" (w.e.f. 10- 8-2004).

^{80a}. Inserted by G.S.R. 212(E), dated 20-3-2015 (w.e.f. 1-4-2015).

⁸¹. Substituted by G.S.R. 338(E), dated 26-3-1993 (w.e.f. 26-3-1993).

⁸². Substituted by G.S.R. 214(E), dated 18-3-1999 (w.e.f. 18-3-1999).

^{82a}. Inserted by G.S.R. 709(E), dated 8-10-2014 (w.e.f. 8-10-2014).

⁸³. Inserted by G.S.R. 589(E), dated 16-9-2005 (w.e.f. 16-9-2005).

^{83a}. Inserted by G.S.R. 212(E), dated 20-3-2015 (w.e.f. 20-3-2015).

52. Renewal of certificate of registration.—(1) An application by or on behalf of the owner .of a motor vehicle, other than a transport vehicle, for the renewal of a certificate of registration, shall be made to the registering authority in whose jurisdiction the vehicle is, in Form 25 not more than sixty days before the date of its expiry, accompanied by the appropriate fee as specified in rule 81.

(2) On receipt of an application under sub-rule (1), the registering authority shall refer the vehicle to the authority referred to in sub-section (1) of section 56 and after obtaining a certificate of fitness from that authority, renew the certificate of registration:

Provided that in a case where the certificate of fitness is granted on a date after the expiry of a certificate of registration, the renewal shall be made from the date of grant of the certificate of fitness for a period of five years.

(3) A motor vehicle other than a transport vehicle shall not be deemed to be validly registered for the purposes of section 39, after the expiry of the period of validity entered in the certificate of registration and no such vehicle shall be used in any public place until its certificate of registration is renewed under sub-rule (2).

53. Issue of duplicate certificate of registration.—(1) if at any time, the certificate of registration is lost or destroyed the owner shall report to the police station in the jurisdiction of which the loss or destruction has occurred and intimate that fact in writing to the registering authority by whom the certificate of registration was issued.

(2) An application for the issue of a duplicate certificate of registration shall be made to the ⁸⁴[last registering authority] in Form 26 and shall be accompanied by the appropriate fee as specified in rule 81.

⁸⁴. Substituted by G.S.R. 221(E), dated 28-3-2001, for "original registering authority" (w.e.f. 28-3-2001)

54. Assignment of new registration mark.—(1) An application for the assignment of a new registration mark under sub-section (1) of section 47 shall be made in Form 27 and shall be accompanied by a no objection certificate in Form 28 along with the appropriate fee as specified in rule 81, within a period of thirty days from the date of expiry of the period specified in the said section:

Provided that where a motor vehicle is intended to be kept in a State for a period exceeding twelve months and the owner of such vehicle makes a declaration to that effect, the application may be made at any time within the said period of twelve months.

(2) On receipt of an application under sub-rule (1), the registering authority shall, subject to the provision of section 44, assign to the vehicle the registration mark.

55. Transfer of ownership.—(1) Where the ownership of a motor vehicle is transferred, the transferor shall report the fact of transfer in Form 29 to the registering authorities concerned in whose jurisdiction the transferor and the transferee reside or have their places of business.

(2) An application for the transfer of ownership of a motor vehicle under sub-clause (i) of clause (a) of sub-section (1) of section 50 shall be made by the transferee in Form 30, and shall be accompanied by—

- i. the certificate of registration;
- ii. the certificate of insurance; and
- iii. the appropriate fee as specified in rule 81.

(3) An application for transfer of ownership of a motor vehicle under sub-clause (ii) of clause (a) of sub-section (1) of section 50 shall be made by the transferee in Form 30 and shall, in addition to the documents and fee referred to in sub-rule (2), be accompanied by one of the following documents, namely:—

- (a) a no objection certificate granted by the registering authority under sub- section (3) of section 48; or
- (b) an order of the registering authority refusing to grant the no objection certificate under sub-section (3) of section 48; or
- (c) where the no objection certificate or the order, as the case may be, has not been received, a declaration by the transferor that he has not received any such communication together with—

- (i) the receipt obtained from the registering authority under subsection (2) of section 48; or
- (ii) the postal acknowledgement received from the registering authority where the application for no objection certificate has been sent by post.

56. Transfer of ownership on death of owner of the vehicle.—(1) Where the owner of a motor vehicle dies, the person succeeding to the possession of the vehicle may for a period of three months, use the vehicle as if it has been transferred to him where such person has, within thirty days of the death of the owner informs the registering authority of the occurrence of the death of the owner and of his own intention to use the vehicle.

(2) The person referred to in sub-rule (1) shall apply in Form 31 within the period of three months to the said registering authority for the transfer of ownership of the vehicle in his name, accompanied by—

- (a) the appropriate fee as specified in rule 81;
 - (b) the death certificate in relation to the registered owner;
 - (c) the certificate of registration; ^{84a} [*]
 - (d) the certificate of ^{84b} [Insurance; and].
- ^{84c} [(e) driving license and permit in case of E-rickshaw and E-cart.]

57. Transfer of ownership of vehicle purchased in public auction.

(1) The person who has acquired or purchased a motor vehicle at a public auction conducted by or on behalf of the Central Government or a State Government shall make an application in Form 32 within thirty days of taking possession of the vehicle to the registering authority accompanied by—

- (a) the appropriate fee as specified in rule 81;
- (b) the certificates of registration and insurance;
- (c) the certificate or order confirming the sale of the vehicle in his favour duly signed by the person authorised to conduct the auction; ^{84a} [*]

^{84a}. Omitted by G.S.R. 709(E), dated 8-10-2014 (w.e.f 8-10-2014).

^{84b}. Substituted by G.S.R. 709(E), dated 8-10-2014 (w.e.f 8-10-2014).

^{84c}. Inserted by G.S.R. 709(E), dated 8-10-2014 (w.e.f 8-10-2014).

(d) the certified copy of the order of the Central Government or State Government authorising the auction of the ^{84b} [vehicle; and]

^{84c} [(e) driving licence and permit in case of transfer of ownership of E-rickshaw and E-cart.]

(2) Where the vehicle auctioned is a vehicle without any registration mark, or with a registration mark which on verification is found to be false, the registering authority shall, subject to the provisions of section 44, assign a new registration mark to the vehicle in the name of the Department of the Central Government or State Government auctioning the vehicle and thereafter record the entries of transfer of ownership of the vehicle giving the name and address of the person to whom the vehicle is sold:

⁸⁵[Provided that motor vehicle in the name of the Central Government or State Government shall not be transferred by the concerned registering authority without verifying the proceeding of the auction or disposal of the concerned vehicle.]

58. No objection certificate. - (1) An application for the issue of no objection certificate under section 48 in respect of a motor vehicle shall be made in Form 28 to the registering authority by which the vehicle was previously registered, accompanied by—

- (a) the certified copy of the certificate of registration;
- (b) the certified copy of the certificate of insurance;
- (c) evidence of payment of motor vehicle tax up-to-date;
- (d) where no tax is payable for a certain period a certificate from the tax collecting authority that no tax is due from the vehicle for the said period.

(2) In the case of a transport vehicle, in addition to the documents referred to in sub-rule (1), documentary evidence in respect of the following matters shall also be furnished, namely:—

- (a) that the vehicle is not covered by any permit issued by any transport authority;

⁸⁵. Inserted by G.S.R. 111(E), dated 10-2-2004 (w.e.f 10-2-2004).

- (b) that the sum of money agreed upon to be paid by the holder of the permit under sub-sections (5) and (6) of section 86, if any, is not pending recovery;
- (c) evidence of payment of tax on passengers and goods under any law for the time being in force upto the date of application for no objection certificate.

(3) On receipt of an application under sub-rule (1), the registering authority shall fill Part III of Form 28 and return that part to the applicant duly-signed.

(4) Where the registering authority grants or refuses to grant the no objection certificate, it shall return the duplicate copy of the said Form to the applicant and the triplicate copy to the other registering authority after duly filling and signing Part II thereof.

59. Change in residence.—An application for recording a change in the residence in the certificate of registration of a motor vehicle shall be made by the owner of the vehicle in Form 33 accompanied by the certificate of registration and proof of address in the manner specified in rule 4 and the appropriate fee as specified in rule 81.

60. Endorsement of hire-purchase agreements, etc.—An application for making an entry of hire-purchase, lease or hypothecation agreement in the certificate of registration of a motor vehicle required under sub-section (2) of section 51 shall be made in Form 34 duly signed by the registered owner of the vehicle and the financier and shall be accompanied by the certificate of registration and the appropriate fee as specified in rule 81.

61. Termination of hire-purchase agreements, etc.—(1) An application for making an entry of termination of agreement of hire purchase, lease or hypothecation referred to in sub-section (3) of section 51 shall be made in Form 35 duly signed by the registered owner of the vehicle and the financier, and shall be accompanied by the certificate of registration and the appropriate fee as specified in rule 81.

(2) The application for the issue of a fresh certificate of registration under sub-section (5) of section 51 shall be made in Form 36 and shall be accompanied by a fee as specified in rule 81.

(3) Where the registered owner has refused to deliver the certificate of registration to the financier or has absconded then the registering authority shall issue a notice to the registered owner of the vehicle in Form 37.

Certificate of fitness

62. Validity of certificate of fitness.—(1) A certificate of fitness in respect of a transport vehicle granted under section 56 shall be in Form 38 and such certificate when granted or renewed shall be valid for the period as indicated below:—

(a) new transport vehicle	Two years
⁸⁷ [(b) renewal of certificate of fitness in respect of transport vehicles]	Two years for vehicles up to eight years old and one year for vehicles older than eight years.]
⁸⁶ [(ba) renewal of certificate of fitness in respect of E-rickshaw and E-cart	Three years

⁸⁸[Provided that the renewal of a fitness certificate shall be made only ⁸⁹[after an Inspecting Officer] or authorised testing stations as referred to in sub-section (1) of section 56 of the Act] has carried the tests specified in the Table given below, namely:—

⁸⁶. Inserted by G.S.R. 709(E), dated 8-10-2014 (w.e.f. 8-10-2014).

⁸⁷. Substituted by G.S.R. 1081(E), dated 02-11-2018 (w.e.f. 02-11-2018)

⁸⁸. Proviso added by G.S.R. 221(E), dated 28-3-2001 (w.e.f. 28-3-2001). Earlier the Proviso was omitted by G.S.R. 76(E), dated 31-1-2000 (w.e.f. 31-1-2000). Before that the Proviso was added by G.S.R. 684(E), dated 5-10-1999 (w.e.f. 22-10-1999).

⁸⁹. Substituted By G.S.R. 1096(E)dated 28-11-2016 , for " after the Inspecting Officer" (w.e.f 28-11-2016)

89a [Table]

Sl. No.	Item	Check make/ type /rating Check etc. Fit per ment original as Check cond itions		Check Function ing	Test		Remarks
		Check etc. Fit per ment original as Check cond itions	Check Function ing				
1.	2.	3.	4.	5.	6.	7.	8.
(1)	Spark Plug/ Suppressor cap/ High Tension cable	Yes	Yes	Yes	No	No	-
(2)	Head Lamp Beams	Yes	No	Yes	Yes	Check	(a) Beam focus as per Annexure VII; (b) in case of authorised testing station using headlight tester, testing procedure and requirement shall be as per AIS-128:2014.
(3)	Other Lights	Yes	No	Yes	Yes	No	Also ensure that unauthorised lights are not fitted.
(4)	Reflectors	Yes	No	Yes	No	No	Ensure colour of reflectors and reflective tapes are as per rule 104
(5)	Bulbs	Yes	Yes	Yes	No	No	Ensure that head light bulbs wall-age, especially halogen is not higher than those indicated in IS 1606 — 1993 and also ensure that halogen bulbs with P45t caps are not used in all vehicles
(6)	Rear View Mirror	Yes	No	Yes	No	No	—
(7)	Safety Glass	Yes	Yes	Yes	No	No	Laminated windscreens

							glass is used for vehicles manufactured from April, 1996 onwards
(8)	Horn	Yes	No	Yes	Yes	No	—
(9)	Silencer	Yes	No	Yes	Yes	No	Ensure no leakage
(10)	Dash board equipment	Yes	No	Yes	Yes	No	—
(11)	Wind wiper shield	Yes	No	Yes	Yes	No	—
(12)	Exhaust emission	No	No	No	No	Yes	Pollution under Control Certificate
(13)	Braking system	Yes	No	Yes	Yes	Yes	As per rule 96(8); (b) in case of authorized testing station using roller brake tester, testing procedure, and requirements shall be as per AIS-128:2014
(14)	Speedometer	Yes	No	Yes	Yes	No	As per rule 117
(15)	Steering gear	Yes	No	Yes	Yes	Check free play	Check free play as per rule 98 for-vehicles with steering wheel.]
⁹⁰ [(16)]	Rear Under run Protecting Device For N2, N3, T3 and T4	yes	No	yes	No	No	As per rule 124(1A)
(17)	Lateral Side Protection Device for N2, N3, T3 and T4	yes	No	yes	No	No	As per rule 124 (1A)]
^{89ab} [(18)]	Fastag	yes	No	yes	No	No	To be affixed on the front wind screen]
^{89ac} [(19)]	Priority Seats, securing of crutches/canes/walker, handrail/stanchions,controls at priority seats for differently abled passengers and passengers with reduced mobility.	Yes	No	Yes	Yes	No	Ensure that the provisions of sub-rules (1) and (7) of rule 125C of the Central Motor Vehicles Rules, 1989 are complied with.]

89ad [(20)]	Wheel chair entry/housing/Yes locking arrangement for wheel chair for differently abled passengers and passengers with reduced mobility.	No	Yes	Yes	No	Ensure that the provisions of sub-rules (1) and (7) of rule 125C of the Central Motor Vehicles Rules, 1989 are complied with.]
-------------	--	----	-----	-----	----	--

⁹⁰[Provided further that in case of E-rickshaw and E-cart, the renewal of fitness certificate shall be made only after carrying out test specified in the Table given below:-

^{90a}[Table]

Items	Check Fitment	Check make or Type rating, etc., as per original equipment recommendation	Check conditions	Check functioning	Test	Remarks
Maximum speed	No	No	No	No	Yes	The vehicle shall be driven in unladen condition (with full charge and at full accelerator position) on straight or flat road and when the vehicle attains full speed, the maximum speed shall be calculated by measuring time taken to travel fixed distance (say 50 metres).]
Reflectors	Yes	No	Yes	No	No	Ensure Colour of the reflectors and reflective tapes are as per rule 104.”.]

^{90aa}[Provided also that if the tests specified in the Table under the first proviso are conducted by an Inspecting Officer or authorised testing station in a State/ Union Territory other than the State/ Union Territory where the vehicle is registered, the Inspecting Officer who conducted the tests shall, on the same day or on the following working day, upload his inspection report in Form 38A at the portal <http://parivahan.gov.in/vahan> and also send the

^{89a}. Substituted by G.S.R. 345(E), dated 19-5-2014, for (w.e.f. 19-5-2014).

^{89ab} Inserted by G.S.R. 1081(E), dated 02-11-2018 (w.e.f. 02-11-2018)

^{89ac} Inserted by G.S.R. 959(E), dated 27-12-2019 (w.e.f. 01-03-2020)

^{89ad} Inserted by G.S.R. 959(E), dated 27-12-2019 (w.e.f. 01-10-2020)

⁹⁰. Substituted by G.S.R. 709(E), dated 8-10-2014 (w.e.f. 8-10-2014).

^{90a}Substituted by G.S.R.807(E), dated 23-06-2019 (w.e.f. 01-04-2020).

inspection report signed under his hand and seal to the registering authority by speed post for issue of certificate of fitness by the registering authority within fifteen days from the date of the inspection report, if the vehicle is found by the Inspecting Officer to be in compliance with the provisions of the Act and rules and a copy shall be given to the driver of the vehicle:

Provided also that the next fitness certificate is obtained from the inspecting officer or an authorised testing station in the State/ Union Territory of the registering authority where the vehicle is registered.]

Explanation.—"Inspecting Officer" means an ^{90ab}[Officer appointed by a State Government] under section 213 of the Act.]

(2) The fee for the grant or renewal of a certificate of fitness shall be as specified in rule 81.

^{90ac}[Provided further that no fitness certification shall be required at the time of registration for new transport vehicle sold as fully built vehicle and such vehicle shall be deemed to be having certificate of fitness for a period of two years from the date of registration.]

^{90b}[(3) The fee for testing of a vehicle when tested by an Inspecting Officer or authorised testing station, other than the Inspecting Officer in the office of the registering authority, shall be as specified in rule 81].

63. Regulation and control of authorised testing stations.—(1) No operator of an authorised testing station shall issue or renew a certificate of fitness to a transport vehicle under section 56 without a letter of authority in Form 39 granted by the registering authority.

(2) An application for grant or renewal of a letter of authority under sub-rule (1) shall be made in Form 40 to the registering authority having jurisdiction *in the area in which the service station or garage is situated and shall be accompanied by,—*

^{90aa} Inserted By G.S.R. 1096(E)dated 28-11-2016 (w.e.f 28-11-2016)

^{90ab}Substituted By G.S.R. 1096(E)dated 28-11-2016 , for " Officer appointed by the State Government " (w.e.f 28-11-2016)

^{90ac} Inserted By G.S.R. 1081(E) dated 02-11-2018 (w.e.f 02-11-2018)

^{90b} Inserted By G.S.R. 1096(E)dated 28-11-2016 (w.e.f 28-11-2016)

- (a) the appropriate fee as specified in rule 81;
- (b) a security deposit of ⁹¹[rupees one lakh] in such manner as may be specified by the State Government.

Explanation.—For the purpose of this rule and rules 64 to 72, the registering authority means an officer not below the rank of the regional transport officer of the Motor Vehicles Department established under section 213.

(3) A registering authority shall, when considering an application for the grant or renewal of a letter of authority, have regard to the following matters, namely:—

- (a) the applicant or at least one of the members of the staff employed by him for the inspection of transport vehicles for the purpose of issue or renewal of certificate of fitness possesses the following minimum qualifications:—
 - (i) a ⁹²[three years] diploma in automobile engineering or mechanical engineering or an equivalent qualification;
 - (ii) experience of minimum service of five years in an automobile workshop undertaking repairs of heavy goods vehicles, heavy passenger motor vehicles, medium motor vehicles and light motor vehicles;
 - (iii) a driving licence to drive motor cycle, heavy passenger motor vehicle and heavy goods vehicle with a minimum driving experience of not less than five years;
 - (iv) thorough knowledge of the Act and the rules made thereunder, especially the Chapters relating to registration of motor vehicles and construction, equipment and maintenance of motor vehicles;
- (b) the premises where the authorised testing station is to be housed is either owned by the applicant or is taken on lease by him or is hired in his name and it has ⁹¹[minimum of one acre of land] for administrative section, reception room and ⁹¹[sanitary block and space for erection] of testing equipment's and other apparatus;

⁹¹. Substituted by G.S.R. 338(E), dated 26-3-1993, for "rupees ten thousand" (w.e.f. 26-3- 1993).

⁹². Inserted by G.S.R. 338(E), dated 26-3-1993 (w.e.f. 26-3-1993)

- (c) inspection lanes are provided adjacent to the building in the same compound or at other places approved by the registering authority;
- (d) testing equipment's and apparatus are installed in such manner that vehicles may pass through with ease and speed;
- ⁹³(e) the applicant maintains in good condition, the equipment and apparatus for undertaking test pertaining to ⁹⁴[exhaust gas, engine tuning, engine analysis], smoke emission, brake system, headlights, wheel alignments, compressors, speedometers and other like components;]
- (f) the financial resources of the applicant are sufficient to provide for its continued maintenance;
- (g) the applicant maintains an up-to-date copy of the Act, these Rules and the concerned State Motor Vehicles Rules.

(4) The registering authority shall also, when considering an application under this rule, take into consideration the fact that the setting up of the authorised testing station will improve the availability of testing facilities in the area both in relation to the number of vehicles and proximity to such facilities.

(5) The registering authority may, on receipt of an application under sub-rule (2) and after satisfying himself that the applicant has complied with the requirements of sub- rules (3) and (4), grant or renew the letter of authority in Form 39:

Provided that no application for a letter of authority shall be refused by the registering authority unless the applicant is given an opportunity of being heard and reasons for such refusal are given in writing by the registering authority.

64. Duration of letter of authority.—A letter of authority granted or renewed shall be effective for a period of five years from the date of grant or renewal.

65. General conditions to be observed by the holder of letter of authority.—The holder of a letter of authority shall—

- (a) maintain a register with a separate page for each vehicle containing the registration number of the vehicle for which the certificate of

^{93.} *CI. (c) Substituted by G.S.R. 933(E), dated 28-10-1989 {w.e.f. 28-10-1989}.*

^{94.} *Substituted by G.S.R. 214(E), dated 18-3-1999, for "exhaust gas" (w.e.f. 18-3-1999).*

fitness is granted or renewed, the make and model of the vehicle, the engine number and the chassis number of the vehicle along with the pencil print of the chassis number, the name and address of the owner of the vehicle, particulars of any permit of such vehicle, period of validity of certificate of fitness granted or renewed and the signature of the owner of the vehicle or his authorized representative;

(b) forward the particulars of the transport vehicles for which certificates of fitness have been granted or renewed and the period of validity of such certificate, within two days of grant or renewal of the certificate of fitness, to the authority which has granted the permit and where the transport vehicle is not covered by a permit, to the transport authority in whose jurisdiction the vehicle is kept;

(c) issue to every transport vehicle satisfying the requirements of section 56, a certificate of fitness in accordance with the provisions of rule 62;

(d) not shift the place of business mentioned in the letter of authority without the prior approval in writing of the registering authority which granted the letter of authority;

(e) keep the premises of the testing station and the records and registers maintained by it and all the machinery, equipment and apparatus in the premises at all reasonable time open for inspection by the registering authority or any person of the Motor Vehicles Department of the State Government established under section 213 authorised in this behalf by the registering authority;

(f) display at a prominent place in its main office the following:—

- (i) the letter of authority in original issued to the authorised testing station by the registering authority;
- (ii) the name and address of the person authorised to issue or renew the certificate of fitness;
- (iii) the qualifications of the persons referred to in clause (a) of sub-rule (3) of rule 63;

(g) not charge a fee for inspection of a vehicle for the purpose of issue or renewal of the appropriate certificate of fitness in excess of the fee specified in rule 81;

(h) surrender to the Regional Transport Authority having jurisdiction over the area, the register referred to in clause (a) as soon as entries in all the pages in the register are completed and in any case not later than two days after such completion.

66. Issue of duplicate letter of authority.—(1) If at any time the letter of authority granted or renewed under sub-rule (5) of rule 63 is lost or destroyed, the holder of the letter of authority shall report to the police station in the jurisdiction of which the loss or destruction has occurred and intimate the fact in writing to the registering authority which granted or renewed the letter of authority and shall apply for a duplicate.

(2) On receipt of an application alongwith the appropriate fee as specified in rule 81, the registering authority may issue a duplicate letter of authority clearly marked "Duplicate".

(3) If after the issue of a duplicate letter of authority, the original is traced, the same shall be surrendered forthwith to the registering authority by which it was issued.

67. Supervision of authorised testing stations.—The registering authority or any officer of the Motor Vehicles Department of the State Government duly authorised in this behalf by the registering authority may, at any time, conduct test checks at the premises of the authorised testing station with a view to ensure that the vehicles are properly tested by the authorised testing station.

68. Power of registering authority or Regional Transport Authority to call for information.—The authorised testing station shall submit to the registering authority or the Regional Transport Authority having jurisdiction in the area, such information or returns as may be called for by such authority from time to time.

69. Power of registering authority to suspend or cancel the letter of authority or forfeit security deposit.—(1) If the registering authority is satisfied after giving the holder of a letter of authority an opportunity of being heard, that he has—

(a) failed to maintain the equipment, machinery and apparatus referred to in sub-clause (e) of sub-rule (3) of rule 63 in good condition; or

(b) failed to comply with the other requirements laid down in sub-rule (3) of rule 63; or

(c) failed to observe correct standards of testing before granting or renewing certificates of fitness as noticed at the time of test-checking referred to in rule 67 or the frequency of accidents involving transport vehicles covered by certificates of fitness granted or renewed by the authorised testing station attributable to any mechanical defect of the vehicle, it may—

- (i) suspend the letter of authority for a specified period; or
- (ii) cancel the letter of authority; or
- (iii) order forfeiture of the security deposit furnished by the authorised testing station.

(2) Where the letter of authority is suspended or cancelled under sub-rule (1), the holder of the letter of authority shall surrender the same to the registering authority forthwith.

(3) Where the

(4) security deposit is forfeited under sub-rule (1), the holder of the letter within thirty days of the receipt of the order of forfeiture, remit to the registering authority the amount ordered to be forfeited so that the requirement of sub-rule (2) of rule 63 in relation to deposit of security is complied with.

70. Appeal.—Any person aggrieved by an order of the registering authority under sub- rule (5) of rule 63 or sub-rule (1) of rule 69, may, within thirty days of the receipt of the order, appeal to the Head of the Motor Vehicles Department of the State Government established under section 213.

71. Procedure for appeal.—(1) An appeal under rule 70 shall be preferred in duplicate in the form of a memorandum, setting forth the grounds of objections to the order of the registering authority and shall be accompanied by the appropriate fee as specified in rule 81 and a certified copy of such order.

(2) The appellate authority may, after giving an opportunity to the parties to be heard and after such enquiry as it may deem necessary, pass appropriate orders.

72. Voluntary surrender of letter of authority.—(1) The holder of a letter of authority may, at any time, surrender the letter of authority issued to him, to the registering authority which has granted the letter of authority and on such surrender, the registering authority shall cancel the letter of authority forthwith.

(2) On cancellation of the letter of authority under sub-rule (1), the registering authority shall refund to the holder of the letter of authority, the amount of security deposit referred to in sub-rule (2) of rule 63 in full and without any interest.

73. Tax clearance certificate to be submitted to the testing station.—No authorized testing station shall accept an application for the grant or renewal of a certificate of fitness unless the same is accompanied by a tax clearance certificate in such form as may be specified by the State Government, from the Regional Transport Officer or motor vehicle inspector having jurisdiction in the area to the effect that the vehicle is not in arrears of motor vehicle tax or any compounding fee referred to in sub-sections (5) and (6) of section 86.

***Registration of vehicles belonging to the
Central Government used for defence purposes***

74. Assignment of registration marks to the vehicles belonging to the Central Government used for defence purposes.—The authority referred to in sub-section (1) of section 60 shall assign registration marks to the vehicles belonging to the Central Government and used for defence purposes in the following manner, namely:—

A group of figures followed by a single capital letter, a broad arrow, not more than six figures and a capital letter or a group of letters. The registration mark shall be in English letters and Arabic numerals.

State Register of Motor Vehicles

75. State register of motor vehicles.—(1) Each State Government shall maintain a State register of motor vehicles in respect of motor vehicles registered in the State in Form 41.

(2) Each ⁹⁵[State Government shall, if so desired by the Central Government] send to the Director (Transport Research), Ministry of Surface Transport, New Delhi, a printed copy of the register referred to in sub-rule (1).

Special provision for registration of motor vehicles of diplomatic officers, etc.

76. Registration of vehicles of diplomatic and consular officers.—(1) Every application for registration of a motor vehicle under sub-section (1) of section 42 by or on behalf of any diplomatic officer or consular officer shall be made in triplicate by the head of the mission or consular officer in Form 42 and be addressed to the registering authority through the Competent Authority accompanied by the relevant documents and fees referred to in rule 47.

(2) The Competent Authority shall forward one copy of the application to the registering authority concerned together with a statement certifying the status of the person applying for registration and shall return one copy of the application to the applicant. The third copy of the application may be retained by the Competent Authority for record.

(3) The registering authority shall, on receipt of the application duly endorsed under sub- rule (2) register the vehicle, subject to the provision of section 44.

(4) The registering authority shall issue to the owner of a motor vehicle registered by it under sub-rule (3), a certificate of registration in Form 43 and shall enter in a register to be kept by it, particulars of such certificate.

(5) The registering authority shall assign to the motor vehicle for display thereon in the manner specified in rule 77, the registration mark in accordance with sub-rule (6) or sub- rule (7), as the case may be.

⁹⁶[(6) A motor vehicle belonging to a diplomatic mission in Delhi or to any of its diplomatic officer shall be assigned a registration mark consisting of the letters "CD" preceded by the number allotted to the mission by the Ministry of External Affairs of the Government of India and followed by a number allotted to the vehicle by the registering authority in the following manner, namely:—

^{95.} Substituted by G.S.R. 221(E), dated 28-3-2001 (w.e.f. 28-3-2001). Earlier these words were omitted by G.S.R. 76(E), dated 31-1-2000 (w.e.f. 31-1-2000). Before that these words were inserted by G.S.R. 684(E), dated 5-10-1999 (w.e.f. 22-10-1999).

^{96.} Sub-R. (6) substituted by G.S.R. 221(E), dated 28-3-2001 (w.e.f. 28-3-2001).

(i) an official vehicle meant for the use of the head of a mission shall be allotted the number "1";

(ii) personal vehicles of the head of the mission shall be allotted the number "1", followed consecutively, in alphabetical order, by a letter beginning with the letter "A";

(iii) official vehicles, other than those referred to in clause (i), shall be allotted consecutive numbers beginning with the number "2";

(iv) vehicles belonging to other officers of the mission shall be allotted numbers in consecutive order after the last number allotted under clause (iii);

(v) vehicles acquired by a mission or by its diplomatic officer other than heads of missions, shall be allotted numbers in consecutive order after the last number allotted under clause (iv) irrespective of whether such vehicle is for official or personal use of the mission or any of its officers;

(vi) a number allotted to a vehicle under any of the clauses (i) to (iv), which is lying unutilised due to sale or export of such vehicle or cancellation of its number may be allotted to another vehicle under the same clause in respect of which an application has been made under sub-rule (1).]

(7) A motor vehicle belonging to a consular post ⁹⁷[headed by a Carrier Counsellor Officer] or to any of its officers shall be assigned a registration mark consisting of the letters "CC" preceded by the number of the post allotted to it by the Ministry of External Affairs of the Government of India and followed by a number allotted to the vehicle by the registering authority out of a block of numbers allotted for that post in the following manner, namely:—

(i) an official vehicle meant for the use of the head of a consular post shall be allotted the first number from the block of numbers allotted to that post;

(ii) personal vehicles of the Consul-General shall be allotted the number referred to in clause (i), followed consecutively in alphabetical order, by a letter beginning with the letter "A";

(iii) official vehicles other than those referred to in clause (i'), shall be allotted consecutive numbers beginning with the second number from the block of numbers allotted to the post;

⁹⁷. Substituted by G.S.R. 221(E), dated 28-3-2001, for "outside Delhi" (w.e.f. 28-3-2001).

(iv) vehicles belonging to other officers of the post shall be allotted numbers in consecutive order after the last number allotted under clause (iii);

(v) vehicles acquired by a post, or by its consular officers, other than the head of the post shall be allotted numbers in consecutive order after the last number allotted under clause (iv) irrespective of whether such vehicle is for official or personal use of the post or any of its officers;

(vi) a number allotted to a vehicle under any of the clauses (i) to

(v) which is lying unutilised due to sale or export of such vehicle or cancellation of its number, may be allotted to another vehicle under the same clause in respect of which an application has been made under sub-rule (i).

⁹⁸**[Explanation.]**—For the purposes of this rule and rules 77, 78 and 79, "competent authority" means:—

(i) in relation to a diplomatic officer or a consular officer who has his residence in Delhi, the Chief of Protocol to the Government of India in the Ministry of External Affairs; and

(ii) in relation to a diplomatic officer or a consular officer who has his residence at any other place, the Secretary (Transport) to the State Government.]

⁹⁹[(8) Consular posts headed by Honorary Consular Officers shall use standard size number plates bearing ordinary registration number provided by the concerned registration authorities. They may, however, use the word "name of the country followed by CC (Honorary)" in the same font and colour (i.e., the numbers and letters in whitecolour on black background) but in letters smaller than the registration number on a maximum of two of their vehicles.)

¹**[76-A. Application of rules 76 to 80 to organisations notified under the United Nations (Privileges and Immunities) Act, 1947.]**—The provisions of rules 76 and 77 to 80 shall apply to the motor vehicles of diplomatic officers of the organisations notified under the United Nations (Privileges and Immunities) Act, 1947 (46 of 1947) as they apply to a diplomatic officer or consular officer with the modification that in rule 76,—

⁹⁸. Substituted by G.S.R. 129(E), dated 16-2-2000 (w.e.f. 16-2-2000)

⁹⁹. Inserted by G.S.R. 221(E), dated 28-3-2001 (w.e.f. 28-3-2001).

¹. Inserted by G.S.R. 644, dated 25-9-1995.

(a) in sub-rule (6), for the letters "CD", the letters "UN" shall be substituted; and

(b) in sub-rule (7), for the letters "CC", the letters "UN" shall be substituted.]

²[76-B. Registration of vehicles of home-based non-diplomatic officials of diplomatic missions or consular posts.]—(1) A motor vehicle belonging to a non-diplomatic official of a diplomatic mission or a consular post in Delhi shall be assigned a registration mark consisting of letters 'CDP' preceded by the number allotted to the mission or post by the Ministry of External Affairs of the Government of India and followed by a number allotted to the vehicle by the registering authority.

(2) A motor vehicle belonging to a home-based non-diplomatic official of a consular post outside Delhi shall be assigned a registration mark consisting of the letters 'CCP' preceded by the number of the post allotted to it by the Ministry of External Affairs of the Government of India and followed by the number allotted to the vehicle by the registering authority.]

77. Exhibition of registration mark.—(1)The registration mark assigned under sub-rules (5) to (7) of rule 76 shall be clearly exhibited in reflecting colour both at the front and rear of the vehicle on the plain surface of a plate or part of the vehicle and the size of which shall be 41 centimetres by 14 centimetres—

(i) with deep blue background, the registration mark and the number being in white in the case of motor vehicles referred to in sub-rule (6) of rule 76;

(ii) ^{2a}[with deep blue background, the registration mark and the number being in yellow], in the case of motor vehicles referred to in sub-rule (7) of rule 76;

³(iii) with light green background, the registration mark and the number being in white in case of motor vehicles referred to in rule 76-B.]

(2) The registration mark shall be in English letters and Arabic numerals and—

(i) save in the case of a motor cycle or an invalid carriage, the letters shall be not less than 6 centimetres high and 2 centimetres thick at any

².Inserted by G.S.R. 395(E), dated 16-7-1997 (w.e.f. 16-7-1997)

^{2a}.Substitute by G.S.R. 633(E), dated 23-06-2017 (w.e.f. 23-06-2017).

³. Inserted by G.S.R. 395(E), dated 16-7-1997 (w.e.f. 16-7-1997)

part, the numerals shall be not less than 9 centimetres high and 2 centimetres thick at any part, and there shall be a space between any letter and any numeral and between any letter or any numeral and the edge of the plain surface of not less than 1 centimetre and a space between any two letters and between any two numerals of not less than 1 centimetre; and

(ii) in the case of a motor cycle or an invalid carriage, the dimensions of the letters and figures shall not be less than two-thirds of those specified in clause (i).

(3) The plain surface referred to in sub-rule (2) shall not be inclined from the vertical by more than thirty degrees. The letters and numerals shall be exhibited as follows:—

(i) in the case of a transport vehicle, the registration mark shall be exhibited in two separate horizontal lines, the number allotted to the mission or post and the letters forming the first line followed by the number allotted by the registering authority in the second line; and

(ii) in all other cases, the registration mark may exhibit the letters and numerals either in two horizontal lines as aforesaid or in one horizontal line.

(4) Notwithstanding anything contained in sub-rule (1), the registration mark exhibited at the front of a motor cycle or an invalid carriage may be displayed on a plate in line with the axis of the vehicle and shall, in such a case, be displayed on both sides of the plate.

(5) In the case of a trailer—

(i) the registration mark shall be exhibited on a plate or surface on the left hand side of the trailer, the dimensions of the letters and figures being not less than two-thirds of the dimensions specified in sub-rule (2);

(ii) the registration mark of the drawing motor vehicle to be affixed to the rear of the trailer shall be in conformity with the provisions of these rules relating to the registration mark affixed to the rear of the motor vehicle.

(6) The registration mark shall also be painted on the right and left side of the body of a transport vehicle.

78. Assignment of new registration mark on removal of vehicle to another State

(1) Every application for assignment of new registration mark on removal to another State under sub-section (1) of section 47 by or on behalf of a diplomatic officer or consular officer shall be made in triplicate in Form 44 and shall be addressed to the registering authority through the competent authority accompanied by the relevant documents and fees referred to in rule 54.

(2) The provisions of sub-rules (2) to (7) of rule 76 shall apply to an application made under sub-rule (1) as they apply to an application made under sub-rule (1) of rule 76.

79. Suspension and cancellation of registration of vehicle registered under rule

76.—If, under the provisions of section 53, section 54 or section 55, the registration of a motor vehicle made in accordance with rule 76 is suspended or cancelled, then a copy of the order of suspension or cancellation shall be sent to the competent authority in addition to each of the authorities or persons to whom a copy has to be sent under the said sections.

80. Transfer or disposal of motor vehicle registered under rule 76.—(1) Where a motor vehicle registered in accordance with rule 76 is transferred by way of sale or otherwise, the transferor shall, within fourteen days, report the fact of the transfer along with the full name and address of the person to whom the vehicle is transferred to the registering authority within whose jurisdiction the transfer is effected and shall simultaneously send copies of the said report to:—

- (a) the transferee;
- (b) the competent authority;

(c) the Collector of Customs of the port of importation of the vehicle and where it is not possible to locate the port of importation, to the Collector of Central Excise and Customs nearest to the headquarters of the transferee; and

(d) the original registering authority in whose records the registration of the vehicle is recorded, if the transfer is effected in the jurisdiction of another registering authority, and shall also surrender the number plate in respect of the vehicle to the registering authority in whose records the registration of the vehicle is recorded, when the transfer is to a person other than a diplomatic officer or a consular officer.

(2) Where the transferee is a diplomatic officer or a consular officer, an application by him or on his behalf shall be made to the registering authority for registration of the vehicle in accordance with the provision of rule 76.

FEES

⁴[81. Fees.]— The fees which shall be charged under the provisions of this Chapter shall be as specified in the Table below:

Provided that the States may levy ⁵[fee lower than the amount specified in the table and may also levy] additional amounts to cover the cost of automation and technology utilized for conducting the testing or providing value added services.

[TABLE]

Sl.No.	Purpose	Amount	Rule	Section
(1)	(2)	(3)	(4)	(5)
1.	Grant or renewal of trade certificate in respect of each class of vehicle:		34(1)	
	(a) Motorcycle	Five hundred rupees		
	(b) Invalid Carriage	Five hundred rupees		
	(c) Others	One thousand rupees		
2.	Duplicate trade certificate:		38(1)	
	(a) Motorcycle	Three hundred rupees		
	(b) Invalid Carriage	Three hundred rupees		
	(c) Others	Five hundred rupees		
3.	Appeal under rule 46	One thousand rupees	46(1)	
4.	Issue or renewal of certificate of registration and assignment of new registration mark:		47(1) 52(1) 54(1) 76(1) and 78(1)	
	(a) Invalid Carriage	Fifty rupees		
	b) Motor cycle	Three hundred rupees		
	(c) Three wheeler/ Quadricycle/ Light Motor Vehicles:			
	i) Non transport;	Six hundred rupees		
	ii) Transport	One thousand rupees		
	d) Medium goods vehicle	One thousand rupees		
	(e) Medium passenger motor vehicle	One thousand rupees		
	(f) Heavy goods vehicle	One thousand and five hundred rupees		
	(g) Heavy passenger motor vehicle	One thousand and five hundred rupees		
	(h) Imported motor vehicle	Five thousand rupees		

	(i) Imported motor cycle	Two thousand and five hundred rupees		
	(ii) Any other vehicle not mentioned above	Three thousand rupees		
	Note 1: Additional fee of two hundred rupees shall be levied if the certificate of registration is a smart card type issued or renewed in Form 23A. Note 2: In case of delay in applying for renewal of certificate of registration, an additional fee of three hundred rupees for delay of every month or part thereof in respect of motor cycles and five hundred rupees for delay of every month or part thereof in respect of other classes of nontransport vehicles shall be levied.			
5.	Issue of duplicate certificate of registration	Half of the fee mentioned against Serial No.4	53(2)	
6.	Transfer of ownership	Half of the fee mentioned against Serial No.4. Note: In case of delay in submission of 'No Objection Certificate', an additional fee of rupees three hundred for delay of each month or part thereof in case of motor cycles and five hundred rupees for each month of delay or part thereof for other vehicles shall be levied.	55(2)(iii), 55(3), 56(2)(a) and 57(1)(a)	
7.	Change of residence	Half of the fee mentioned against Serial No.4. Note: In case of delay in submitting 'No Objection Certificate' for change of residence, an additional fee of rupees three hundred for delay of each month or part thereof in case of motor cycles and five hundred rupees for each month of delay or part thereof for other vehicles shall be levied.	59	
8.	Recording alteration in the certificate of registration	Half of the fee mentioned against Serial No.4		52(4)
9.	Endorsing hire purchase/lease/hypothecation agreement-		60	
	a) Motorcycle	(Five hundred rupees		

	(b) Three wheeler/quadricycle/light motor vehicle	One thousand and five hundred rupees		
	(c) Medium or heavy vehicle	Three thousand rupees		
	Note: No separate fee will be levied for cancellation of lease, etc, or for issue of fresh Certificate of Registration thereafter.			
10.	Conducting test of a vehicle for grant or renewal of certificate of fitness		62(2)	
	(a) Motorcycle	(i) Manual: Two hundred Rupees (ii) Automated: Four hundred rupees		
	(b) Three wheeled or light motor vehicle or quadricycle	(i) Manual : Four hundred rupees (ii) Automated: Six hundred rupees		
	c) Medium or heavy motor vehicle	((i) Manual: Six hundred rupees (ii) Automated: One thousand rupees		
11.	Grant or renewal of certificate of fitness for motor vehicle	Two hundred rupees. Note: Additional fee of fifty rupees for each day of delay after expiry of certificate of fitness shall be levied.	62(2)	
4a[11a]	Conducting test of a vehicle by an Inspecting Officer or Authorized testing station other than the Inspecting Officer in the office of the registering authority for grant or renewal of certificate of fitness by the registering authority Motorcycle Three wheeled or light motor vehicle or quadricycle Medium or heavy motor vehicle	Manual: Two hundred rupees Automated: Four hundred rupees Manual : Four hundred rupees Automated: Six hundred rupees Manual: Six hundred rupees Automated: One thousand rupees	62(2)	-]

12.	Grant or renewal of letter of authority	Fifteen thousand rupees	63(2)(a)	
13.	Issue of duplicate letter of authority	Seven thousand and five hundred rupees	66(2)	
14.	Appeal under rule 70	Three thousand rupees	71(1)	
15.	Any application not covered under entries at Serial Nos. 1 to 14 above	Two hundred rupees		64(p)

Note 1: For the removal of doubts, it is hereby clarified that medium passenger motor vehicles, heavy goods vehicles, imported motor vehicles or any other vehicles not mentioned against Serial No.4 of the above Table include both transport and non-transport vehicles.

Note 2: ^{5a}[Where the certificate of registration issued is in the form of laminated card without chip or Smart Card type driving licence, an additional fee of two hundred rupees shall be charged except in the case of issue of fresh certificate of registration after cancellation of hire purchase or lease or hypothecation agreement.]

⁴. Substituted by G.S.R. 1183(E) dated 29.12.2016, (w.e.f 29.12.2016)

^{4a} Inserted by By G.S.R. 1096(E)dated 28-11-2016 (w.e.f 28-11-2016)

⁵. Inserted by By G.S.R. 271(E)dated 21-03-2017 (w.e.f 21-03-2017)

^{5a}. Substituted by G.S.R. 174(E) dated 01-03-2019, (w.e.f 01-10-2019)

CHAPTER IV

CONTROL OF TRANSPORT VEHICLES

Tourist permits

82. Tourist permits.—(1) An application for the grant of permit in respect of a tourist vehicle (hereinafter referred to in these rules as a tourist permit) shall be made in Form 45 to the State Transport Authority.

(2) ⁶[***]

⁷[(a) A tourist permit shall be deemed to be invalid from the date on which the motor vehicle covered by the permit completes 9 years in the case of a motor cab and 8 years where the motor vehicle is other than a motor cab, unless the motor vehicle is replaced;]

⁸[(b)] Where a vehicle covered by a tourist permit is proposed to be replaced by another, the latter vehicle shall not be more than two years old on the date of such replacement.

Explanation.—For the purposes of this sub-rule, the period of ⁹[9 years or 8 years] shall be computed from the date of initial registration of the motor vehicle.

83. Authorization fee.—(1) An application for the grant of authorisation for a tourist permit shall be made in Form 46 and shall be accompanied by a fee of Rs.500 per annum in the form of a bank draft.

¹⁰[(2) Every authorization shall be granted in Form 23-A, in case the certificate of registration is issued on Smart Card or shall be granted in Form 47, in case the authorization is in paper document mode subject to the payment of taxes or fees, if any, levied by the concerned State. The authority which grants the authorization shall issue to the permit holder separate receipts for such taxes or fees in respect of each bank draft and such receipts shall be security

⁶. CI. (a) of sub-R. (2) omitted by G.S.R. 338(E), dated 26-3-1993 (w.e.f 26-3-1993).

⁷. CI. (b) of sub-R. (2) renumbered as CI. (a) and CI. (n) as so renumbered substituted by G.S.R. 338(E), dated 26-3-1993 (w.e.f. 26-3-1993).

⁸. CI. (c) of sub-R. (2) renumbered as CI. (b) by G.S.R. 338(E), dated 26-3-1993 (w.e.f. 26-3-1993).

⁹. Substituted by G.S.R. 338(E), dated 26-3-1993, for "2 years, 5 years or 7 years" (w.e.f 26-3-1993).

¹⁰. Sub-R. (2) substituted by G.S.R. 400(E), dated 31-5-2002 (vv.e.f. 31-5-2002).

printed watermark paper carrying such hologram as may be specified by the concerned State/Union Territory:

Provided that the bank drafts received in respect of taxes or fees shall invariably be forwarded by the authority which grants the authorisation to the respective States:

Provided also that the use of such security printed watermark paper carrying such hologram shall come into force on or before six months from the date of commencement of the Central Motor Vehicles (Third Amendment) Rules, 2002.]

¹¹[(2-A) The authority which grants the authorisation shall inform the State Transport Authorities concerned the registration number of the motor vehicle, the name and address of the permit holder and the period for which the said authorisation is valid:]

¹²[Provided that where the permit holder undertakes to pay the tax direct to the concerned State Transport Authority at the time of entry in his jurisdiction, the authorisation shall expressly state that it has been issued subject to payment of taxes to the concerned State Transport Authority.]

(2) The period of validity of an authorisation shall not exceed one year at a time ¹³[***].

84. Right of operation.—No tourist permit shall be deemed to confer the right of operation in any State not included in the authorisation referred to in rule 83 nor shall it exempt the owner of a vehicle from the payment of tax or fee, if any, leviable in any State.

85. Additional conditions of tourist permit.—The following shall be the additional conditions of every tourist permit granted to a tourist vehicle other than a motor cab under sub-section (9) of section 88, namely:—

(1) The permit holder shall cause to be prepared in respect of each trip a list in triplicate of tourist passengers to be carried in the vehicle, ¹⁴[***] giving full particulars as under:—

¹¹. Inserted by G.S.R. 338(E), dated 26-3-1993 (w.e.f. 26-3-1993).

¹². Inserted by G.S.R. 76(E), dated 31-1-2000 (w.e.f. 31-1-2000). Earlier Proviso was omitted by G.S.R. 684(E), dated 5-10-1999 (w.e.f. 22-10-1999).

¹³. The words "and shall expire on the 31st day of March of the year" omitted by G.S.R. 933(E), dated 28- 10-1989 (w.e.f. 28-10-1989).

¹⁴. Certain words omitted by G.S.R. 338(E), dated 26-3-1993 (w.e.f. 26-3-1993).

- (a) name of the passengers,
- (b) address of the passengers,
- (c) age of the passengers,
- (d) starting point and the point of destination.

¹⁵[(2) One copy of the list referred to in sub-rule (1) shall be carried in the tourist vehicle and shall be produced on demand by the officers authorised to demand production of documents by or under the provisions of the Act and the Rules, and the second copy shall be preserved by the permit holder.]

(3) The tourist vehicle shall either commence its journey, or end its journey, circular or otherwise, in the home State, subject to the condition that the vehicle shall not remain outside the home State for a period of more than ¹⁵[three months]. The permit holder shall see that every return of the tourist vehicle to the home State is reported to the authority which issued the permit:

Provided that where the contracted journey ends outside the home State, the vehicle shall not be offered for hire within that State or from that State to any other State except for the return journey to any point in the home State.

(4) The tourist vehicle may operate circular tours of places lying exclusively in the home State or in the home State and outside the State if such circular tours are in the list approved by the tourist department of the home State to visit places of tourist, historical or religious importance and the tour is duly advertised before hand:

¹⁶[(Provided that where such tourist vehicle is registered in the National Capital Region, it shall not operate circular tours of place lying exclusively in the National Capital Region unless it conforms to the mass emission standards ^{16a}[(Bharat Stage-IV) specified in sub-rule(15) of rule 115].

(5) The permit holder or his authorised agent shall issue a receipt to the hirer and the counterfoil of the same shall be kept available with him and produced on demand to the officers empowered to demand documents by or under the Act.

15. Substituted by G.S.R. 338(E), dated 26-3-1993 (w.e.f. 26-3-1993).

16. Inserted by G.S.R. 37(E), Dated 20-1-2009 (w.e.f. 20-1-2009)

^{16a}. Substituted by G.S.R 103(E), dated 23-2-2012 (w.e.f 23-2-2012).

(6) The tourist vehicle shall not be parked on any bus stand used by stage carriage and shall not operate from such bus stand.

(7) The tourist vehicle shall be painted in white colour with a blue ribbon of five centimetres width at the centre of the exterior of the body and the word "Tourist" shall be inserted on two sides of the vehicle within a circle of sixty centimetres diameter.

(8) The permit holder shall display in the front of the tourist vehicle a board in yellow with letters in black with the inscription "Tourist permit valid in the State(s) of....." in English and Hindi and also, if he so prefers, in regional language of the home State.

(9) The permit holder shall not operate the tourist vehicle as a stage carriage.

(10) The permit holder shall maintain a day-to-day logbook indicating the name and address of the permit holder and the registration mark of the vehicle, name and address of the driver with the particulars of his driving licence and the starting and destination points of the journey with the time of departure and arrival and the name and address of the hirer.

(11) The permit holder shall furnish once in every 3 months the information contained in condition (10) to the State Transport Authority which granted the permit and the logbook shall be preserved for a period of 3 years and shall be made available to the said authority on demand along with the records referred to in conditions (2) and (4).

Explanation.—In this rule, "home State" means the State which has granted the permit under sub-section (9) of section 88.

85-A. The following shall be the additional conditions of every tourist permit in respect of motor cabs.—(1) The words "Tourist vehicle" shall be painted on both the sides of the vehicle within a circle of twenty-five centimetres diameter.

(2) A board with the inscription "Tourist permit valid in the State(s) of" in black letters in yellow background shall be displayed in the front of the vehicle above the registration number plates:

¹⁷[Provided that this rule shall not apply to motor cabs covered under the 'Rent a Cab' Scheme, 1989.]

National permits

86. Application for national permit.—An application for the grant of a national permit shall be made in Form 48 to the authority referred to in section 69.

87. Form, contents and duration of authorisation.—(1) An application for the grant of an authorisation for a national permit shall be made in Form 46 and shall be accompanied by a fee of ¹⁸[Rs.1,000] per annum in the form of a bank draft.

¹⁸[(2) Every authorisation shall be granted in Form 23-A, in case the certificate of registration is issued on Smart Card or shall be granted in Form 47, in case the authorisation is in paper document subject to the payment of consolidated fees of ¹⁹[rupees sixteen thousand five hundred] per annum to be deposited in the national permit account for the permit granted to operate throughout the territory of India.

(2-A) The consolidated fee deposited in the national permit account shall be distributed by the Central Government among the States and Union territories on pro rata basis as per the following specification, namely: -

Percentage share of n" 1 = total consolidated fee received by nth State/Union territory

State/Union territory in the base year x 100 total consolidated fee received by all the States/Union territories in the base year where national permit is in operation.

Note.- The base year shall be the average of the latest three financial years and the share of the States and Union territories shall be notified by the Central Government from time to time.

Explanation.- For the purpose of sub-rule (2) and sub-rule (2-A) the "National permit account" means an account established by the Central Government and notified in the Official Gazette.]

(2) The period of validity of an authorisation shall not exceed one year at a time ²⁰[***]

¹⁷. Added by G.S.R. 338(E), dated 26-3-1993 (w.e.f. 26-3-1993).

¹⁸. Substituted by G.S.R. 386(E), dated 7-5-2010 (w.e.f. 7-5-2010).

¹⁹. Substituted by G.S.R. 514(E), dated 29-6-2012 (w.e.f. 29-6-2012).

²⁰. The words "and shall expire on the 31st day of March of the year" omitted by G.S.R. 933(E), dated 28-10-1989 (w.e.f. 28-10-1989).

88.Age of motor vehicle for the purpose of national permit.²¹ —(1) No national permit shall be granted in respect of a goods carriage, other than multiaxle vehicle, which is more than ²²[twelve years] old at any point of time.

(2) No national permit shall be granted for a multiaxle goods carriage which is more than fifteen years old at any point of time.

²²[(2-A) No national permit shall be granted for a puller tractor which is more than fifteen years old at any point of time:

Provided that the national permit may be extended for another period of five years subject to certificate of fitness granted by the manufacturer or a chartered engineer, in case the manufacturer ceases to operate in India.]

(3) A national permit shall be deemed to be invalid from the date on which a goods carriage covered by the permit completes fifteen years in case of a multiaxle goods carriage and ²²[twelve years] where the vehicle is other than a multiaxle goods carriage, unless such goods carriage is replaced.

Explanation.—For the purpose of this rule, the period of ²²[twelve years] or fifteen years, as the case may be, shall be computed from the date of initial registration of the motor vehicle covered under its permit or the prime mover in case of an articulated vehicle.]

²³[(4) No national permit shall be granted in respect of a multi-axle trailer approved to carry a gross vehicle weight of more than 50 tonnes, which is more than 25 years old at any point of time, the period of 25 years being computed from the date of initial registration of the said trailer.

Explanation.—For the purpose of this rule, "multi-axle trailer" means a trailer having more than two axles.]

^{22a}[(4-A) No national shall be granted in respect of a modular hydraulic trailer, which is more than twenty five years old at any point of time, the period of twenty-five years being computed from the date of initial registration of the said modular hydraulic trailer:

Provided that the national permit may be extended for another period of five years subject to certificate of fitness granted by the manufacturer or a chartered engineer or approving authority, in case the manufacturer ceases to operate in India:

²¹. R. 88 substituted by G.S.R. 338(E), dated 26-3-1993 (w.e.f. 26-3-1993).

²². Substituted by G.S.R. 799(E), dated 30-12-1993, for "nine years" (w.e.f. 30-12-1993).

^{22a}. Inserted by G.S.R. 212(E), dated 20-3-2015 (w.e.f. 20-3-2015).

²³. Inserted by G.S.R. 221(E), dated 28-3-2001 (w.e.f. 28-3-2001).

Provided further that be national permit shall be valid irrespective of the combination of modular hydraulic trailers subject to the condition that each individual modular hydraulic trailer is having valid national permit.

Explanation.- For the purpose of this section, "national permit" means a permit issued to ply the motor vehicle under this section, throughout the territory of India.]

²⁴[(5) A national permit shall be in such security printed watermark paper and shall carry such hologram as the State Government or the State Transport Authority, as the case may be, issuing such permit, may specify:

Provided that the use of such security printed watermark paper carrying such hologram shall come into force on or before six months from the date of commencement of the Central Motor Vehicles (Third Amendment) Rules, 2002.]

89 Omitted ²⁵[* * *]

90. Additional conditions for national permit.—²⁶ [The national permit issued under sub-section (12) of section 88 shall be subject to the following additional conditions, namely: -

(1) The words "National Permit or N/P" shall be inscribed in the front and rear of the vehicles in bold letters. In case of trailers, the words "N/P" shall be inscribed on the rear and left side of the vehicle.

(2) The body of a tanker carrying dangerous or hazardous goods shall be painted in white colour and shall display the class label, as specified in rule 137, on both the sides and rear of the tanker.

(3) The vehicle shall be fitted with FASTag, as specified in rule 138A of the Central Motor Vehicles Rules, 1989 not later than 1st October, 2019.

(4) Vehicle shall be affixed with reflective tapes at front and rear as specified under Rule 104.

(5) Vehicle shall be fitted with a Vehicle Tracking System device as per AIS 140.

(6) The vehicle shall not pick up or set down goods between two points in the same state, if restricted by the particular state.]

²⁴. Inserted by G.S.R. 400(E), dated 31-5-2002 (w.e.f. 31-5-2002).

²⁵. R. 89 omitted by G.S.R. 221(E), dated 28-3-2001 (w.e.f. 28-3-2001).

²⁶Substituted by G.S.R. 1081(E), dated 02-11-2018 (w.e.f. 02-11-2018).

CHAPTER V

Construction, Equipment and Maintenance of Motor Vehicles

Preliminary

91. Definitions.—In this Chapter, unless the context otherwise requires,—

(a) "class label", in relation to any dangerous or hazardous goods, means the class label specified in column 3 of the Table to rule 137;

(b) "consignor", in relation to dangerous or hazardous goods intended for transportation by a goods carriage, means the owner of such dangerous or hazardous goods;

(c) "dangerous or hazardous goods", means the goods of dangerous or hazardous nature to human life specified in Tables I, II, and III to rule 137;

(d) "emergency information panel", means the panel specified in rule 134;

(e) "primary risk", in relation to any dangerous or hazardous goods, means the most potent risk which such goods give rise to;

(f) "subsidiary risk", in relation to any dangerous or hazardous goods, means the subsidiary risk which such goods are likely to give rise to in addition to the primary risk.

92. General.—(1) No person shall use or cause or allow to be used in any public place any motor vehicle which does not comply with the provisions of this Chapter:

²⁷[Provided that nothing contained in this rule shall apply to vehicles manufactured prior to the coming into force of the Central Motor Vehicles (Amendment) Rules, 1993.]

1. Nothing in this rule shall apply to a motor vehicle—

(a) Which has been damaged in an accident or to a vehicle stopped or impeded owing to shortage of fuel or other temporary defects while at the place at which the accident or defect occurred;

(b) which is defective or damaged and is being removed to the nearest place of repair or disposal; or

²⁷ Inserted by G.S.R. 338(E), dated 26-3-1993 (w.e.f. 26-3-1993).

(c) which is more than fifty years old from the date of its registration and is being driven for taking part in a vintage car rally:

Provided that where a motor vehicle can no longer remain under the effective control of the person driving, the same shall not be used in a public place except by towing.

²⁸[**Explanation.**—for the purposes of this rule," motor vehicle" includes construction equipment vehicle.]

²⁹[(3) Testing of components conforming to standards in lieu of Indian Standards:

Whenever a part, component or assembly is used in a vehicle complying with standards in lieu of those notified in these rules such as an international standard (for example, EEC/ECE/IEC/ISO or such other standards) or a foreign national standard, permission for use of such parts, component or assembly complying with such standards shall be approved by the Central Government.

In such cases, the compliance of parts, components or assemblies to such international or foreign national standards will be established for the purpose of rule 126, by a certificate of compliance issued by an authorized certifying agency or by an accredited certifying agency of the country of origin for such international or foreign national standards and vetted by a testing agency as referred to in rule 126.]

³⁰[(4) The manufacturers who are affixing microdot identifiers in the motor vehicles and their parts, components, assemblies, sub-assemblies shall conform to Automotive Industry Standard (AIS)-155 as amended from time to time.".]

Overall dimension

93. Overall dimension of motor vehicles.—(1) The overall width of a motor vehicle, measured at right angles to the axis of the motor vehicle between perpendicular planes enclosing the extreme points,³¹[shall not exceed 2.6 metres.]

²⁸ Inserted by G.S.R. 642(E), dated 28-7-2000 (w.e.f. 28-7-2000).

²⁹ Inserted by G.S.R. 214(E), dated 18-3-1999 (w.e.f. 18-3-1999).

³⁰ Inserted by G.S.R. 935(E), dated 18-12-2019 (w.e.f. 18-12-2019).

³¹ Substituted by G.S.R. 221(E), dated 28-3-2001 (w.e.f. 28-3-2001).

³²[* * *]

³²[* * *]

³³[Provided further that the overall width of an E-rickshaw and E-chart shall not exceed 1.0 metres.]

Explanation.—For purposes of this rule, a rear-view mirror, or guard rail or a direction indicator ³¹[rub-rail (rubber beading) having maximum thickness of 20 mm on each side of the body] shall not be taken into consideration in measuring the overall width of a motor vehicle.

³⁴[Provided that the overall width of a quadricycle shall not exceed 1.5 metres.]

³⁵[(1-A) The overall width of a construction equipment vehicle, measured at right angles to the axis of the construction equipment vehicle between perpendicular planes enclosing the extreme points, shall not exceed 3 metres while in the travel mode and such construction equipment vehicle ³⁶[shall be painted by yellow and black zebra stripes on the portion of the width that exceed 2.6 metres] on the front and rear sides duly marked for night time driving/parking suitably by red lamps at the front and rear:]

³⁷[Provided that the zebra stripes need not be used on attachments.]

^{37a}[(1-B) The overall width of a combine harvester measured at right angles to the axis of the combine harvester between perpendicular planes enclosing the extreme points shall not exceed 3.3 meters while in the travel mode; and such combine harvesters shall be painted by yellow and black zebra stripes on the portion of the width that exceeds 2.6 meters on the front; and rear sides duly marked for night time driving and parking suitably by white or amber lamps at the front and red lamps at the rear:

Provided that the zebra stripes need not be used on attachments, if any.

³² *Cls. (i) and (ii) omitted by G.S.R. 221 (E), dated 28-3-2001 (w.e.f. 28-3-2001).*

³³ *Inserted by G.S.R. 709(E), dated 8-10-2014 (w.e.f. 8-10-2014).*

³⁴. *Inserted by G.S.R.99(E), dated 19-2-2014 (w.e.f. 19-2-2014).*

³⁵. *Inserted by G.S.R. 642(E), dated 28-7-2000 (w.e.f. 28-7-2000).*

³⁶ *Substituted by G.S.R. 116(E), dated 27-2-2002 (w.e.f. 27-8-2002).*

³⁷. *Inserted by G.S.R. 116(E), dated 27-2-2002 (w.e.f. 27-8-2002).*

^{37a}.*Inserted by G.S.R.212(E), dated 20-3-2015 (w.e.f. 1-4-2015).*

(1-C) The overall width of modular hydraulic trailer, measured at right angles to the axis of the modular hydraulic trailer between perpendicular planes enclosing the extreme points shall not exceed three metres.]

^{37b} [(2) The overall length of a motor vehicle other than a trailer shall not exceed—

(i) In the case of motor vehicle other than transport vehicle having not more than two axles, 6.5 metres;

(ii) In the case of transport vehicle with rigid frame having two or more axles, 12 metres;

(iii) In the case of articulated vehicles having more than two axles, 16 metres;

(iv) in the case of truck-trailer or tractor-trailer combination, 18 metres;

(v) in the case of 3 axle passenger transport vehicles, 15 metres;

^{37a} [(va) in the case of a puller tractor having three or more axles, ten meters;

(vb) in the case of modular hydraulic trailer, any single module with maximum eight axle rows shall not exceed nineteen metres;]

(vi) in the case of single articulated (vestibule type) passenger transport vehicle, 18 metres (Please see the conditions given in note below);

(vii) in the case of double articulate passenger transport vehicles, 25 metres (Please see the conditions given in note below).

^{37c} [(viii) in the case of quadricycle, 3 metres for passenger vehicle and 3.7 meter for goods vehicle.]

^{37c} [(ix) in the case of E-rickshaw and E-cart, shall not exceed 2.8 metres.]

(3) In the case of an articulated vehicle or a tractor-trailer combination specially constructed and used for the conveyance of individual load of exceptional length,—

^{37b}. Substituted by G.S.R. 221(E), dated 28-3-2001 (w.e.f. 28-3- 2001).

^{37c}. Inserted by G.S.R.709(E), dated 8-10-2014 (w.e.f. 8-10-2014).

(i) If all the wheels of the vehicle are fitted with pneumatic tyres, or

(ii) If all the wheels of the vehicle are not fitted with pneumatic tyres, so long as the vehicle is not driven at a speed exceeding twenty-five kilometres per hour, the overall length shall not exceed 18 metres.

Explanation.—For the purposes of this rule "overall length" means the length of the Vehicle measured between parallel planes passing through the extreme projection points of the vehicle exclusive of—

(i) a starting handle;

(ii) any hood when down;

(iii) any fire-escape fixed to a vehicle;

(iv) any post office letter-box, the length of which measured parallel to the axis of the vehicle, does not exceed 30 centimetres;

(v) any ladder used for loading or unloading from the roof of the vehicle or any tail or indicator lamp or number plate fixed to a vehicle;

(vi) any spare wheel or spare wheel bracket or bumper fitted to a vehicle;

(vii) any towing hook or other fitment which does not project beyond any fitment covered by clauses (iii) to (vi).

³⁸[(3-A) ^{38a} [The overall length of the construction equipment vehicle and combine harvester], in travel shall not exceed 12.75 metres:

Provided that in the case of construction equipment vehicle with more than two axles, the length shall not exceed 18 metres.

^{38b}[Provided further that in case of combine harvester exclusively used for harvesting sugarcane, the overall length in travel shall not exceed 15 metres.]

Explanation.—For the purposes of this sub-rule "overall length" means the length of the vehicle measured between parallel planes through the extreme projection points of the vehicle, exclusive of—

(i) any fire-escape fixed to a vehicle;

(ii) any ladder used by the operator to board or alight the vehicle;

³⁸. Inserted by G.S.R. 642(E), dated 28-7-2000 (w.e.f. 28-7-2000).

^{38a}. Substituted by G.S.R. 212(E), dated 20-3-2015 (w.e.f. 1-4-2015).

^{38b}. Inserted by G.S.R. 212(E), dated 20-3-2015 (w.e.f. 1-4-2015).

- (iii) any tailor indicator lamp or number plate fixed to a vehicle;
- (iv) any sphere wheel or sphere wheel bracket or bumper fitted to a vehicle;
- (v) any towing hook or other fitments;
- (vi) any operational attachment on front, rear or carrier chassis of construction equipment vehicle in travel mode.]

^{38b}[(3-B) The overall length of puller tractor and modular hydraulic trailer combination shall not exceed 29 metres:

Provided that movement of larger combinations with more than eight axle lines shall be subject to prior approval of the concerned authorities.]

(4) The overall height of a motor vehicle measured from the surface on which the vehicle rests,—

(i) in the case of a vehicle other than a double-decked ³⁹[transport vehicle], shall not exceed 3.8 metres;

³⁹[(ii) in the case of a double decked transport vehicle, shall not exceed 4.75 metres;

(ii-a) in the case of tractor-trailer goods vehicle, shall not exceed 4.20 metres;]

^{38b}[(ii-b) in the case of modular hydraulic trailer or combination of such modular hydraulic trailers, shall not exceed 4.75 metres;]

(iii)⁴⁰[in the case of a laden trailer carrying ISO series 1 Freight Container or in the case of fabricated containerized motor vehicle, shall not exceed 4.52 metres]:

Provided that the provisions of clauses (i) to (iii) shall not apply to fire-escape tower wagons and other special purpose vehicles exempted by general or special order of registering authority.

^{40a}[(iv) in the case of quadricycle, shall not exceed 2.5 metres.]

^{40b}[(v) in the case of E-rickshaw and E-cart, shall not exceed 1.8 metres.]

³⁹. Substituted by G.S.R. 589(E), dated 16-9-2005 (w.e.f. 16-9-2006).

⁴⁰. Cl. (iii) substituted by G.S.R. 276(E), dated 10-4-2007 (w.e.f. 10-4-2007).

^{40a}. Inserted by G.S.R. 99(E), dated 19-2-2014 (w.e.f. 1-10-2017).

^{40b}. Substituted by G.S.R. 709(E), dated 8-10-2014).

⁴¹[(4-A) The overall height of a construction equipment vehicle

^{41a}[or combine harvester] measured from the surface on which the vehicle rests shall not exceed 4.75 metres, while in the travel mode:

Provided that the provisions of this sub-rule shall not apply to any other special purpose attachment to the construction equipment vehicles ^{41a}[or combine harvester] exempted by general or special order of the registering authority.]

(5) The overhang of a tractor ^{41a}[or puller tractors] shall not exceed 1.85 metres.

⁴²[(6) The overhang of the motor vehicle ⁴³[other than a ^{43a}[tractor, construction equipment vehicle and combine harvester]] shall not exceed 60% of the wheel base.

Explanation I. – For the purpose of this rule –"wheel base" means,-

(a) In the case of vehicles with only two axles, the distance measured horizontally and parallel to the longitudinal axis of the vehicle, between the centre points of the front axle and rear axle;

(b) In case of vehicle having only three axles, and the front axles is only the steered axle, the distance measured horizontally and parallel to longitudinal axis of the vehicle between the centre of the front axle and centre point between the two rear axles;]

⁴⁴[(c) in case of vehicles having more than three axles, and fitted with or without retractable axle, wheelbase shall be the distance measured between the centre of the front-most axle and the centre point of rear combination of non-steered axles.

Note.- (i) –"retractable axle" means an axle which can be raised or lowered by the axle-lift device in accordance with first indent;

"Axe-lift device" means a device permanently fitted to a vehicle for the purpose of reducing or increasing the load on the axle(s), according to the loading conditions of the vehicle, either by raising the wheels clear-off the

⁴¹. Inserted by G.S.R. 642(E), dated 28-7-2000 (w.e.f. 28-7-2000).

^{41a}. Inserted by G.S.R. 212(E), dated 20-3-2015 (w.e.f. 1-4-2015).

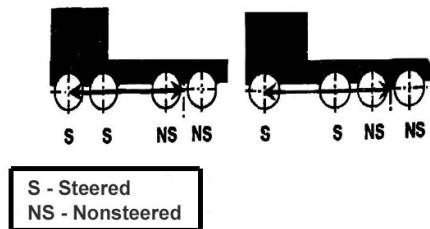
⁴². Substituted by G.S.R. 338(E), dated 26-3-1993 (w.e.f. 26-3-1993).

⁴³. Substituted by G.S.R. 642(E), dated 28-7-2000, for "other than a tractor" (w.e.f. 28-7-2000).

^{43a}. Substituted by G.S.R. 212(E), dated 20-3-2015 (w.e.f. 1-4-2015).

⁴⁴. Substituted by G.S.R. 625(E), dated 8-8-2012 (w.e.f. 8-8-2012).

ground or lowering them to the ground or without raising the wheels of the ground (for Ex. In the case of Air suspension systems, or other system) in order to reduce the wear on the tyres when the vehicle is not fully laden, or make starting (moving of) on slippery ground easier for motor vehicles or vehicle combinations by increasing the load on the driving axle].



⁴⁵[**Explanation II**].-For the purpose of this rule, —"overhang" means the distance measured horizontally and parallel to the longitudinal axis of the vehicles between two vertical planes at right angles to such axis passing through the two points specified hereunder:

- (A) The rearmost point of the vehicle exclusive of-
 - (i) any hood when down;
 - (ii) any post office letter-box, the length of which measured parallel to the longitudinal axis of the vehicle, does not exceed thirty centimetres;
 - (iii) any ladder forming part of a turn-table fire-escape fixed to a vehicle;
 - (iv) any ladder used when the vehicle is at rest for loading or unloading from the roof of the vehicle, or any tail lamp or number plate fixed to a vehicle;
 - (v) any spare wheel or spare wheel bracket fitted to a vehicle;
 - (vi) any luggage carrier fitted to a motor vehicle constructed solely for carriage of passengers and their effects and adapted to carry not more than seven passengers exclusive of the driver;
 - (vii) any towing hook or other fitment which does not project beyond any fitment mentioned in clauses (ii) to (vi);

⁴⁶[(viii) any mounted implement on a 3-point linkage of a tractor:]

Provided that in the case of a stage carriage:-

⁴⁵. Renumbered by G.S.R. 338(E), dated 26-3-1993 (w.e.f. 26-3-1993).

⁴⁶. Inserted by G.S.R. 338(E), dated 26-3-1993 (w.e.f. 26-3-1993)

(a) The projection of any bumper or advertisement panel fitted at the rear of the vehicle shall not exceed fifteen centimetres;

(b) The projection in respect of an advertisement panel shall not be such as to obstruct either the vision from the rear view mirror or project through the emergency exit at the rear or both;

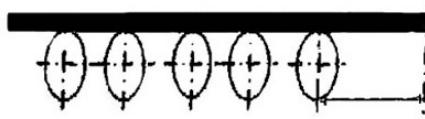
(B) (i) In the case of a vehicle having only two axles, one of which is not a steering axle, the centre point of that axle; or

⁴⁷[(ii) in the case of a vehicle having only three axles and the front axle is the only steering axle, the centre point of the rearmost axle, irrespective of "rear axle(s)" being fixed or "retractable (lift axle)"];

(iii) in the case of any vehicle registered in India before the commencement of these rules it shall suffice if the overhang does not exceed 7/24ths of the overall length of the vehicle;

⁴⁷[(iv) in the case of a vehicle having only three axles where two front axles are steering axles, the centre point of the rearmost axle, irrespective of "rear axle(s)" being fixed or "retractable (lift axle)"];

⁴⁷[(v) in the case of a vehicle having four or more than four axles; the centre point of the rearmost axle, irrespective of "rear axle(s)" being fixed or "retractable (lift axle)"];



(vi) in any other case, a point situated on the longitudinal axis of the vehicle such that a line drawn from it at right angle to that axis will pass through the centre of the minimum turning circle of the vehicle.

⁴⁸[(6-A) The overhang of the construction equipment vehicle ^{48a} [or combine harvester] shall not exceed 7.5 metres in front or rear while in the travel mode:

^{48a} [Provided that in case of a combine harvester exclusively used for harvesting sugarcane, the overhang shall not exceed 8.5 meters in rear while in travel mode.]

⁴⁷. Substituted by G.S.R. 625(E), dated 8-8-2012 (w.e.f. 8-8-2012).

⁴⁸. Inserted by G.S.R. 642(E), dated 28-7-2000 (w.e.f. 28-7-2000).

^{48a}. Inserted by G.S.R. 212(E), dated 20-3-2015 (w.e.f. 1-4-2015).

Explanation.- For the purpose of this sub-rule, "overhang" means the length/height measured horizontally and parallel to the longitudinal axis of the construction equipment vehicle ⁴⁹[or combine harvester] between two vertical planes at right angles to such axis passing through-

(i) the front most point of the vehicle and the centre point of the front axle, for the front overhang,

(ii) The rearmost point of the vehicle and centre point of the rear axle, for the rear overhang, exclusive of the parts or fitments mentioned at items (i) to (vi) of the Explanation to sub-rule (3-A).]

^{49a}[(7)] No part of the vehicle other than a direction indicator, when in operation, or a driving mirror, shall project laterally more than 355 millimetres beyond the centre line of the rear wheels, in the case of a single rear wheels or more than 152 millimetres beyond the extreme outer edge of the outer tyres, in the case of dual rear wheels:

⁵⁰[***]

Provided that the State Government or any authority authorized in this behalf by the State Government, if it is satisfied that it is necessary because of the nature of any road or bridge or in the interest of public safety, may prohibit or restrict the operation of a motor vehicle in a specified route or area unless such vehicle complies with the requirements specified by the State Government for such route or area.

^{50a}[(7-A) No part of the construction equipment vehicle ⁴⁹[or combine harvester] in travel mode other than a direction indicator, or a driving mirror, shall project laterally more than 300 millimetres beyond the extreme outer edge of the tyres or wheel drums regardless of single or dual tyres or rollers.]

⁴⁹[(8)]No motor vehicle shall be loaded in such a manner that the load or any part thereof extends,-

(i) laterally beyond the side of the body;
(ii) to the front beyond the foremost part of the load body of the vehicle;

⁴⁹. Inserted by G.S.R. 212(E), dated 20-3-2015 (w.e.f. 1-4-2015).

^{49a}. Renumbered by G.S.R. 338(E), dated 26-3-1993(w.e.f. 26-3-1993).

⁵⁰. Proviso omitted by G.S.R. 111(E), dated 10-2-2004 (w.e.f. 10-8-2004).

^{50a}. Inserted by G.S.R. 642(E), dated 28-7-2000 (w.e.f. 28-7-2000).

- (iii) to the rear beyond the rear most part of the vehicle;
- (iv) to a height beyond the limits specified in sub-rule(4):

⁵¹[* * *]

52[93-A. Overall dimension for agricultural tractors.]—(1) The overall width of the agricultural tractor shall not exceed 2.6 metres.

(2) The overall length of the agricultural tractor shall not exceed 6.5 metres.

(3) The overall height of the agricultural tractor shall not exceed 3.8 metres.

(4) The overhang of the agricultural tractor shall not exceed 1.85 metres:

Provided that lateral projection upto 700 millimetres beyond the central line of the rear wheel shall be permitted.]

53[93-B.Overall dimension for power tillers.]—(1) The overall length of the power tiller with a riding attachment shall not exceed 3.5 metres.

(2) The overall width of the power tiller with a riding attachment including case wheelers shall not exceed 1.5 metres.

(3) The maximum overall height of the power tiller shall not exceed 2.0 metres.

(4) The overall length of the power tiller when coupled to a trailer shall not exceed 6.0 metres.

(5) The maximum overall width of the power tiller when coupled to a trailer shall not exceed 1.7 metres.

(6) The maximum overall height of the power tiller when coupled to a trailer shall not exceed 2.0 metres.]

54[93-C. Overall dimension for Airport Passenger Bus (Tarmac Bus).] — (1) The overall length of the Airport Passenger Bus shall not exceed fifteen metres.

(2) The overall Width of the Airport Passenger Bus shall not exceed 3.2. meters.

⁵¹. *Proviso omitted by G.S.R. 152(E), dated 5-3-2014.*

⁵². *Inserted by G.S.R. 111(E), dated 10-2-2004 (w.e.f. 10-8-2004).*

⁵³. *R. 93-B Inserted by G.S.R. 589(E), dated 16-9-2005 (w.e.f. 16-9-2006).*

⁵⁴. *Substituted by G.S.R. 594(E), dated 13-06-2016 (w.e.f. 13-06-2016).*

Explanation. – For the purposes of this rule, the term "Airport Passenger Bus (tarmac bus)" means the Bus having doors on both sides which is exclusively used for the carrying the passengers from airport terminal to and from the aircraft and plying on the air side on the Air port terminal with maximum speed not exceeding thirty kilometre per hour.]

Size, nature and condition of tyres

94. Condition of tyres.—^{54a}[(1)⁵⁵[Every motor vehicle including agricultural tractor and its trailer ^{55a}[, and combine harvester and modular hydraulic trailers]] shall be fitted with pneumatic tyres and every construction equipment vehicle, other than steel drum rollers of vibratory compactors or compactor rollers or road roller or a track laying vehicle, shall be fitted with pneumatic tyres or solid rubber tyres.]

(2) The pneumatic tyres of ⁵⁵[a motor vehicle including agricultural tractor and its trailer ^{55a}[, and combine harvester and modular hydraulic trailers]] shall be kept properly inflated and in good and sound condition.

(3) For the purpose of sub-rule (2), a tyre shall not be deemed to be of good and sound condition if—

(i) any of the fabric of its casing is exposed by wear of the tread or by any unvulcanised cut or abrasion in any of its parts; or

(ii) it shows signs of incipient failure by local deformation or swelling; or

(iii) it has been patched or repaired by an outside garter or patch other than a vulcanised repair;

⁵⁶[(iv) the Non-Skid Depth (NSD), shall not be less than 0.8 mm in the case of-

^{56a}[two wheeler, three-wheeler, quadricycle, E-rickshaw and E-cart] and 1.6 mm in the case of other motor vehicles, below the Tread Wear Indicator (TWI) embedded in tyres at the time of manufacture:]

Provided that the requirement specified in clause (iii) shall

⁵⁵. Substituted by G.S.R. 111(E), dated 10-2-2004, for certain words (w.e.f. 10-8-2004).

^{55a}. Inserted by G.S.R. 212(E), dated 20-3-2001 (w.e.f. 1-4-2015).

⁵⁶. Inserted by G.S.R. 221(E), dated 28-3-2001 (w.e.f. 28-9-2001).

^{56a}. Substituted by G.S.R. 709(E), dated 8-10-2014 (w.e.f. 8-10-2014).

not apply to a temporary repair effected to enable the vehicle to be moved to the nearest place where the tyre can be repaired or replaced:

Provided further that where a motor vehicle, other than road roller or track laying vehicle, is not fitted with pneumatic tyres, it shall not be used in a public place unless it is fitted with shoes or other suitable device so that plying of such vehicle does not damage the road:

⁵⁷[Provided also that the requirements of the Non-Skid Depth (NSD) and Tread Wear Indicator (TWI) specified in clause (iv) shall not be applicable for the agricultural tractor tyres.]

95. Size and ply rating of tyres.—⁵⁸[(1) the tyres including radial tyres used on all motor vehicles manufactured or imported on and after the 1st day of April, 2006, other than agricultural tractors, construction equipment vehicles and power tillers shall comply with the requirements specified in 59[IS:15627-2005 or IS: 15633-2005 or IS: 15636-2005 applicable]:

Provided that the selection and fitment of tyres for motor vehicles manufactured or imported on and from the 1st day of April, 2006 shall be in accordance with AIS:050:2004 ^{59a}[in the case of two wheeler, three-wheeler, quadricycle, E-rickshaw and E-cart] and AIS:051:2004 in the case other motor vehicles, till such time the corresponding BIS specifications are notified under the Bureau of Indian Standards Act, 1986 (63 of 1986):

Provided further that Central Institute of Road Transport, Pune and any other agency which may be authorised by Central Government from time to time can carry tests for verification against AIS:044:2004 for tyres for the purposes of rule 126.]

⁶⁰[(2) The maximum gross vehicle weight and the maximum safe axle weight of each axle of a vehicle shall, having regard to the size, nature and number of tyres and maximum weight permitted to be carried by the tyres as per sub-rule (1), be—

⁵⁷. Inserted by G.S.R. 111(E), dated 10-2-2004 (w.e.f. 10-8-2004).

⁵⁸. Sub-R. (1) substituted by G.S.R. 589(E), dated 16-9-2005 (w.e.f. 16-9-2005).

⁵⁹. Substituted by G.S.R. 784(E), dated 12-11-2008 (w.e.f. 1-4-2009).

^{59a}. Substituted by G.S.R. 709(E), dated 8-10-2014 (w.e.f. 8-10-2014).

⁶⁰. Inserted by G.S.R 214(E), dated 18-3-1999 (w.e.f. 18-3-1999).

(i) vehicle rating of the gross vehicle weight and axle weight respectively as duly certified by the testing agencies for compliance with rule126, or

(ii) The maximum vehicle weight and maximum safe axle weight of each vehicle respectively as notified by the Central Government, or

(iii) the maximum total load permitted to be carried by the tyre as specified in sub-rule(1) for the size and the number of the tyres fitted on the axle(s) of the vehicle, whichever is less:

Provided that the maximum gross vehicle weight in respect of all vehicles, including multi axle vehicles shall not be more than the sum total of all the maximum safe axle weights put together.

⁶¹[⁶²[(2-A) The size of the tyres of a construction equipment vehicle] ^{62a}[or a combine harvester] specified in column (1) of the Table below shall have a ply rating specified in the corresponding entry in column(2) of the said Table in respect of maximum weight permitted to be carried by such tyre specified in the corresponding entry in column(3) thereof:

Provided that the maximum safe load for single axle with two or more tyres shall not exceed 10.2 tonnes.

⁶¹. Inserted by G.S.R. 642(E), dated 28-7-2000 (w.e.f. 28-7-2000),

⁶². Substituted by G.S.R. 720(E), dated 10-9-2003, for the brackets, figure and words "(2) The size of the tyres of a construction equipment vehicle" (w.e.f. 10-10-2003).

^{62a}. Inserted by G.S.R. 212(E), dated 20-3-2015 (w.e.f. 1-4-2015).

Off-The-Road Service Conventional and Wide Base Diagonal Ply Tyres

Table

AGRICULTURAL TRACTOR DRIVE WHEEL		
Tyre size Designation	Ply rating	Maximum weight permitted to be carried (Kgs.)
8.3/8-24	4	630
	6	825
8.3/8-32	4	730
	6	925
11.2/10-28	4	900
	6	1120
	8	1320
12.4/11-24	4	950
	6	1215
	8	1450
12.4/11-28	4	1030
	6	1285
	8	1550
	10	1600
	12	1650
12.4/11-36	4	1150
	6	1450
12.4/11-38	4	1180
	6	1500
	8	1750
13.6/12-28	4	1120
	6	1450
	8	1650
	10	1750
	12	1800
16.9/14-28	6	1850
	8	2180
	10	2430
	12	2725
ROAD GRADER		
13.00-24	8	2040
	12	2485
14.00-24	12	3015
OFF THE ROAD HAULAGE SERVICE TYRES		
12.00-20	14	2650
	16	2900
12.00-24/25	14	3000
	16	3250
13.00-24/25	18	3875

14.00-24/25	16	4000
	20	4625
	24	5150
16.00-24/25	20	5450
	24	6000
	28	6700
18.00-24/25	12	4750
	16	5600
	20	6500
	24	7300
	28	8000
	32	8750
WIDE BASE		
23.5-25	12	5300
	16	6150
	20	7300
	24	8000

Note.—⁶³[1.] The load rating for tyres not covered by the above Table may be notified by the Central Government as and when such tyres are introduced on construction equipment vehicles, and until these are notified, the provisional load rating declared by the construction equipment vehicle manufacturer may be certified by the certifying test agency referred to in rule 126.]

⁶⁴[2. The maximum axle loading capacities shall be verified based on the safe loading capacities of the tyres. In cases where the axle load exceed 10.2 tonnes, the vehicle manufacturer shall ask the user to seek the prior permission of the concerned Regional or State Transport Authorities in whose jurisdiction the construction equipment vehicle is expected to ply depending upon the conditions of roads/bridges, where deemed fit. Such construction equipment vehicles whose axle load exceeds 10.2 tonnes shall display permanently on the vehicle a placard indicating "NOT FOR PLYING ON ROADS". These conditions shall be mentioned in the certificate, issued by the testing agencies referred to in the rule 126, where the axle load exceeds 10.2 tonnes.]

⁶³. The existing note numbered as "1" by G.S.R. 116(E), dated 27-2-2002 (w.e.f. 27-8- 2002).

⁶⁴. Inserted by G.S.R. 116(E), dated 27-2-2002 (w.e.f. 27-8-2002).

(3). No tyre shall have a ply rating more than 20, for applications of on-highway and such ply rating shall not be prescribed by either vehicle manufacturer or employed by vehicle user on this class of vehicle.

(4) Check on sub-rule (3) of rule 95 on commercial vehicles will be conducted by the authority indicated in sub-rule (1) of rule 126, while conducting the checks.]

⁶⁵[(5) Every tyre manufacturer shall, in addition to any trade mark or size of the tyre, also emboss on it the following, namely:—

(i) Week and year code or month and year code of manufacture; and

(ii) maximum load carrying capacity.]

⁶⁶[(6) In the case of Indian manufactured vehicles and imported vehicles (new and old), the size of tyres if included in the International Standards, namely, ECE, JATMA, ETRTO and T & RA besides Bureau of Indian Standards may also be accepted under this rule:

Provided that the following conditions shall be complied with:

(i) that testing agencies referred to in rule 126 shall satisfy themselves about the load and speed rating of the tyre with reference to the Indian conditions;

(ii) that the test report/certificate issued by the testing agency of the Country of origin shall be verified for acceptance by the testing agency referred to in rule 126;

(iii) that for tubeless tyres fitted on imported vehicles confirming to conditions (i) and (ii) shall also be allowed.]

⁶⁷[(7) Temporary use spare wheel or tyre and Run Flat Tyre for vehicles of categories L7, M1 and N1, if they are different from the normal tyre used on the vehicle shall conform to AIS 110:2009, as amended from time to time, till the corresponding BIS specifications are notified under the Bureau of Indian Standards Act, 1986 (63 of 1986).]

⁶⁸[95-A. Size and ply rating of tyres for agricultural tractor.]—(1) The tyre of the agricultural tractor shall have load carrying capacity as may be specified by the tyre manufacturer, subject to the condition that the maximum load specified by

⁶⁵ Inserted by G.S.R. 221(E), dated 28-3-2001 (w.e.f. 28-9-2001).

⁶⁶ Inserted by G.S.R 400(E), dated 31-5-2002 (w.e.f. 31-5-2002).

⁶⁷. Inserted by G.S.R. 518(E), dated 01-06-2018 (w.e.f. 01-06-2018).

⁶⁸ Inserted by G.S.R 111(E), dated 10-2-2004 (w.e.f. 10-8-2004).

the agricultural tractor manufacturer shall not be greater than the load permitted by the tyre manufacturer.

(2) The agricultural tractor manufacturer shall select only that rim size as recommended by the tyre manufacturer.

Note.—For compliance to the above two sub-rules, the following shall be referred to IS: 13154-1991 as amended from time to time—Tyres for agricultural tractor, implements and power tillers. In case a particular size of tyre is not listed in IS:13154-1991, any equivalent International Standard like Economic Commission of Europe (ECE), Japanese Automotive Tyre Manufacturers Association (JATMA), European Tyre and Rim Technical Organisation (ETRTO), The Tyre and Rim Association Inc. (T&RA) and Indian Tyre Technical Advisory Committee (ITTAC), etc., shall be accepted.]

69[95-B.Size and ply rating of tyres for power tillers.—(1)The tyre should have load Carrying capacity as specified by the tyre manufacturer, however, the maximum load specified by the power tiller manufacturer shall not be greater than that permitted by the tyre manufacturer.

(2) The power tiller manufacturer shall select the recommended/preferred rim sizes only, as suggested by the tyre manufacturer.

Note.—For compliance to this rule, the following standards shall be referred to, namely:—

(i) IS:13154-1991, as amended from time to time-Tyre for agricultural tractor, implement and power tillers.

(ii) In case a particular size of tyre is not listed in IS: 13154-1991, as amended from time to time, any equivalent International Standard like ECE, JATMA, ETRTO, TNRA, ITTAC, etc.]

69a[95-C. Size and ply rating of tyres for modular hydraulic trailers.—(1) The tyres including radial tyres used on modular hydraulic trailers shall be in accordance with IS 15636:2005 as amended from time to time.

(2) The tyre of modular hydraulic trailers shall have load carrying capacity as specified by the tyre manufacturer, however, the maximum load specified by the modular hydraulic trailers manufacturer shall not be greater than that permitted by the tyre manufacturer.

⁶⁹ R 95-B inserted by G.S.R. 589(E),dated 16-9-2005 (w.e.f. 16-9-2006).

^{69a} Inserted by G.S.R 212(E), dated 20-3-2015 (w.e.f. 1-4-2015).

(3) The modular hydraulic trailer manufacturer shall select the recommended or preferred rim sizes only, as suggested by the tyre manufacturer and the wheel rims shall confirm to IS 9438:1980.

Note.-For compliance to this rule, any equivalent national or international standards such as Indian Standards (IS), Automotive Industry Standards (AIS), ECE (Economic Commission of Europe), Japan Automobile Tyre Manufacturers Association (JATMA), European Tyre and Rim Technical Organisation (ETRTO), Tyre and Rim Association Inc. (TRA), Indian Tyre Technical Advisory Committee (ITTAC), etc., may be referred.

95-D.Limited road trials.- The Hydraulic Modular Trailer with specified Gross Vehicle Weight or maximum load carrying capacity shall be subjected to minimum hundred kilometres run preferably on plain roads with speed less than ten kilometres per hour.]

Brakes, steering gears, safety glass and windscreen wipers

96.Brakes.—⁷⁰[(1)Every motor vehicle, other than a motor cycle, three-wheeled Invalid carriage, trailer or a road roller shall be equipped with two independent and efficient braking systems, namely, the parking brake and foot operated service brake:

Provided that a motor cycle and three-wheeled invalid carriage shall be equipped with the independent and efficient braking systems, either both hand operated or one foot operated and the other hand operated.]

(2) The braking system shall be of strength capable of stopping the vehicle within the distance specified in sub-rule(8) and of holding it at rest in all conditions and all such brakes at all time be properly connected and maintained in efficient condition.

⁷¹[***]

(3) In every motor vehicle ⁷²[other than agricultural tractors,] the brakes operated by one of the means of operation shall act directly upon the wheel and not through the transmission gear.

⁷⁰ Substituted by G.S.R 338(E), dated 26-3-1993 (w.e.f. 26-3-1993).

⁷¹ Proviso omitted by G.S.R. 338(E), dated 26-3-1993 (w.e.f. 26-3-1993).

⁷² Added by G.S.R. 338(E), dated 26-3-1993 (w.e.f. 26-3-1993).

⁷³[(4) Every motor vehicle manufactured on and after the 1st day of April, 2006 shall have a braking system whose performance shall conform to the following Indian Standard, namely:—

(i) for ^{73a}[two-wheelers, three-wheelers, E-rickshaw and E-cart IS:14664:1999, as amended from time to time.

^{73aa}[(ia) for three wheelers manufactured on and after the 1st day of April, 2020 as per IS: 14664:2010, as amended from time to time;

(ib) for two wheelers manufactured on and after six months from the date of notification or the 1st day of April or October, whichever comes earlier, as per IS: 14664:2010, as amended from time to time.]

(ii) All ^{73b}[motor vehicles including quadricycles], other than two-wheelers, three- wheelers, trailers, semi-trailers, construction equipment vehicles, ^{73a}[agricultural tractors, power tillers, E-rickshaws and E-carts], IS:11852 (Part 1):2001, 11852(Part 2):2001, 11852 (Part 3):2001, 11852 (Part 4):2001, 11852 (Part 5):2001, 11852 (Part 6):2001, 11852 (Part 7):2001 and 11852 (Part 8):2001, as amended from time to time:

^{73c}[***]

^{73d}[Provided that] IS: 11852:2003 (Part 9) shall be applicable for vehicles manufactured on and after the 1st day of October, 2006 fitted with Anti-Lock Braking System.]

^{73g}[provided further that Braking System other than Anti-Lock Braking for M1 category of vehicles manufactured, on and from 1stday of April, 2021 in the case of new models and 1st day of April, 2022 in case of all models, shall conform to IS 15986:2015 or AIS:151:2018 as amended from time to time:

Provided also that Braking System other than Anti-Lock Braking for M2, M3, N1, N2, N3 categories of vehicles manufactured, on and after 1stday of April, 2021 in case of new models and 1st day of April, 2022 in case of all models, shall conform to IS 11852:2013, as amended from time to time:

Provided also that the motor vehicle categories for which Endurance Braking System Test (Type-II A test) is applicable as per IS 11852:2013 and manufactured on and after 1st day of April, 2022 shall comply

⁷³ Sub-R. (4) substituted by G.S.R. 589(E), dated 16-9-2005 (w.e.f. 16-9-2005).

^{73a} Substituted by G.S.R. 709(E), dated 8-10-2014 (w.e.f. 8-10-2014).

^{73aa} Inserted by G.S.R. 1192(E), dated 10-12-2018 (w.e.f. 10-12-2018).

^{73b} Substituted by G.S.R. 99(E), dated 19-2-2014 (w.e.f. 1-10-2014).

^{73c} Proviso omitted by G.S.R. 225(E), dated 26-3-2015 (w.e.f. 1-4-2015).

^{73d} Substituted by G.S.R. 225(E), dated 26-3-2015 (w.e.f. 1-4-2015).

with the Endurance Braking System Test (Type-II A test) as specified in IS 11852:2013 amended from time to time:

Provided also that Braking System other than Anti-Lock Braking for N1 category of vehicles conforming to IS 15986:2015 or AIS 151:2018 as amended from time to time shall be deemed to comply with the requirements of IS 11852:2013.]

^{73e}[(4A). Notwithstanding anything contained in clause (i) of sub-rule (4),—

(a) New vehicle models of category L2 with;

- (i) engine capacity ≤ 125 cc;
- (ii) maximum continuous rated or net power ≤ 11kw; and
- (iii) power/weight ratio ≤ 0.1 kw/kg,

manufactured on and after the 1st April, 2018 shall be fitted with anti-lock braking system or combined braking system conforming to IS: 14664: 2010;

(b) Existing vehicle models of category L2 with :

- (i) engine capacity ≤ 125 cc;
- (ii) maximum continuous rated or net power ≤ 11kw; and
- (iii) power/weight ratio ≤ 0.1 kw/kg,

manufactured on and after the 1st April, 2019 shall be fitted with anti-lock braking system or combined braking system conforming to IS: 14664: 2010:

Provided that all other category of two wheeled vehicles which does not fall in the criteria as mentioned above in clause (a) and (b) shall be fitted with anti-lock braking system conforming to IS:14664: 2010 on and after the 1st April, 2018 for new vehicle models and ^{73g}[manufactured] on and after the 1st April,2019 for existing vehicle models.]".

^{73f}[(4B). The motor vehicles of category M1 and M2 shall-

- (i) on and after the 1st April 2018, in the case of new models ; and ^{73g}[manufactured]
- (ii) on and after the 1st April 2019, in the case of all models.

be fitted with Anti-lock braking systems as per IS: 15986:2015 ^{73g}[or AIS:151:2018, as amended from time to time], specifications in case of Category M1 vehicles and per IS: 11852:2003 (Part -9), specifications in case of Category M2 vehicles.]

^{73e} Inserted by G.S.R. 310(E), dated 13-03-2016 (w.e.f. 13-03-2016).

^{73f} Inserted by G.S.R. 120(E), dated 10-12-2017 (w.e.f. 10-12-2017).

^{73g} Inserted by G.S.R. 173(E), dated 01-03-2019 (w.e.f. 01-03-2019)

^{73g}[Provided that vehicles of category M2 manufactured on and from 1st day of April, 2021, in case of new models and 1st day of April, 2022, in case of all models, shall be fitted with Anti-Lock Braking System conforming to the IS 11852:2013 as amended from time to time.]

(5) ^{73g} [Omitted]

(6) ^{73g} [Omitted]

⁷⁴[(7) (a) In the case of motor vehicles, other than three-wheelers of gross vehicle weight not exceeding 1000 kgs. And motor cycles, the service brake shall be acting on all the wheels of the vehicle.

(b) In case of three-wheelers of gross vehicle weight not exceeding 1000kgs. If the foot operated brake does not act on all the wheels, the following conditions shall be fulfilled, namely:-

(i) the foot operated brake shall act on the two wheels which are on the same axle, and

(ii) in addition to the parking brake, there shall be an independent brake acting on the other wheel of the vehicle with an independent hand-operated control.

(c) In the case of motor cycles, the braking system operated with the foot or left hand shall act at least on the rear wheel and the brake operated by right hand at least on the front wheel.

(d) In the case of agricultural tractors, the braking system shall act as on both the rear wheels, either directly or through the transmission gear.]

(8) The service braking system in the case of vehicle other than three-wheelers and motor cycles, and the braking system operated by one of the means of operation other than the parking brake in the case of three-wheelers and motor cycles shall be capable to bring the vehicles to halt within the distance specified in the following Table when tested in accordance to the condition prescribed correspondingly in the Table. The test shall be conducted on a dry level hard road in good condition. During the test the accelerator control shall be fully released and in the case of vehicles with manual gear shifting control, the top gear and the clutch shall be engaged.

⁷⁴ Substituted by G.S.R. 338(E), dated 26-3-1993 (w.e.f. 26-3-1993).

TABLE

Sl. No.	Type of vehicle	Load	Test speed (The speed at which the brake should be applied)(Kmph)	Type of brake	Stopping distance (m)
1.	All vehicles other than motor cycles, three-wheelers and agricultural tractors	Laden to the registered GVW or unladen or Laden or Unladen	30	Foot operated service	13
			30	"	21
			40	"	21
			40	"	21
2.	Motor cycles	Unladen	30	Foot or hand operated	21
3.	Three-wheelers including three-wheeler tractors for trailers	Unladen	30	Foot operated (brakes operating on at least two wheels)	13
4.	Agricultural tractors	Laden to test mass	25	Foot operated service	10
5.	All other than three-wheelers of engine capacity not exceeding 500cc, motor cycles and agricultural tractors	Laden to the registered GVW or unladen	30	-do-	12.7
			40	-do-	15.0
			30	-do-	9.3
			40	-do-	12.0
⁷⁵ [6.]	Puller Tractors	GVW	20	Foot operated service	13]

⁷⁵. Inserted by G.S.R. 212(E), dated 20-3-2015 (w.e.f. 1-4-2015).

For the purpose of this test for vehicles other than motorcycles the "unladen" means the vehicle is without any load and shall carry only the driver and another person for specific purpose of supervising the test, and the instruments, if any. In the case of motor cycles, the "unladen" means that vehicle will carry only the single rider and the measuring instrument, if any.]

^{75a}[(9)The following category of vehicles shall be fitted with Anti-Lock Braking System conforming to IS:11852:2003 (Part 9):—

(i) N2 ^{75b}[***] category of vehicles other than tractor-trailer combination manufactured on and after the 1st day of October, 2006 meant for carrying hazardous goods and liquid petroleum gas;

^{75c}[(ii) New models of M3 and N3 categories of vehicles manufactured on and after the 1st April, 2015;

(iii) Existing models of M3 and N3 categories of vehicles manufactured on and after the 1st October, 2015;]

^{75d}[(iv) the following categories of vehicles manufactured prior to the dates specified in clauses (ii) and (iii) shall be fitted with Anti-lock Braking System conforming to IS: 11852:2003 (Part 9);

(a) N3 categories of vehicles other than tractor-trailer combination manufactured on and after the 1st day of October, 2006 meant for carrying hazardous goods and liquid petroleum gas;

(b) N3 categories vehicles manufactured on and after the 1st day of October, 2007, that are double decked transport vehicles;

(c) N3 categories of vehicles manufactured on and after the 1st day of October, 2007, that are used as tractor-trailer combinations;

(d) M3 categories of buses that ply on All India Tourist Permit, manufactured on and after the 1st day of October, 2007.]

^{75e}[Provided that vehicles of category M3, N3 and N2 other than tractor-trailer combination meant for carrying hazardous goods and liquid petroleum gas, manufactured on and from 1st day of April, 2021 in the case of new models and 1stday of April, 2022 in case of all models, shall be fitted with Anti-Lock Braking System conforming to IS: 11852:2013, as amended from time to time.]

^{75e}[(10) M1 and N1 categories of vehicles manufactured on and after, 1st day of April, 2021 in the case of new models and 1st day of April, 2022 in case of

^{75a}. Sub-R. (9) inserted by G.S.R. 589(E), dated 16-9-2005 (w.e.f. 16-9-2005).

^{75b}. Certain words omitted by G.S.R. 389(E), dated 9-6-2014 (w.e.f. 1-10-2014).

^{75c}. Substituted by G.S.R. 389(E), dated 9-6-2014 (w.e.f. 1-10-2014).

^{75d}. Inserted by G.S.R. 52(E), dated 23-1-2015 (w.e.f. 23-1-2015).

^{75e} Inserted by G.S.R. 173(E), dated 01-03-2019 (w.e.f. 01-03-2019)

all models, and if provided with Electronic Stability Control Systems shall meet the requirements as specified in AIS:133-2016, as amended from time to time, till the corresponding BIS specifications are notified under the Bureau of Indian Standards Act, 2016 (11 of 2016).

(11) M1 and N1 categories of vehicles if provided with Brake Assist System manufactured, on and after 1st day of April 2021 in the case of new models and 1st day of April, 2022 in case of all models shall conform to AIS:152:2018 amended from time to time, till the corresponding BIS specifications are notified under the Bureau of Indian Standards Act, 2016 (11 of 2016).

⁷⁶[96-A.Brakes for construction equipment vehicle. —(1) Construction equipment Vehicle with hydrostatic transmission shall employ either hand or foot operated hydrostatic braking system both for service and parking brake system acting at least on two wheels on the same axle or drum.

(2) The braking system shall be of a strength capable of stopping the vehicle within the distance specified in sub-rule(8) and of holding it at rest in all conditions, and all such brakes shall at all times be properly conducted and maintained in efficient condition.

(3) In every construction equipment vehicle, other than those having hydrostatic transmission, the brakes operated by any of the means of operation shall act directly upon the wheel or at a suitable location in the power train provided that such an action does not disouple, disengage or isolate the braking action from the wheels.

(4) Every construction equipment vehicle which manufactured on or after the Commencement of the Motor Vehicles (Sixth Amendment) Rules, 2000, shall have a braking system whose performance shall ⁷⁷[conform to the test and stopping distance formula as specified in sub-rule(7)].

(5) The braking system or one of the braking systems of construction equipment vehicle, shall be so constructed and maintained that it can effectively prevent at least two wheels or drums from revolving when the vehicle is left unattended and it shall be designed to be applied through hand or foot or automatically when engine is not running.

⁷⁶ Inserted by G.S.R. 642(E) dated 28-7-2000 (w.e.f. 28-7-2000).

(6) In the case of construction equipment vehicles with four or more than four wheels, the service brake shall work on at least two wheels of the vehicle.

⁷⁷[(7) The service braking system of the construction equipment vehicle shall be capable of bringing the vehicle to a halt within the stopping distance as calculated by the formula given below, when tested in unladen condition and attachment carry position at a speed corresponding to 80 per cent. of the design maximum speed. The test shall be conducted in the forward direction of travel on a dry level hard road in good condition and during the test the acceleration control or travel shall be fully released and in the case of vehicle with manual gear shifting control, the top gear and the clutch shall be engaged.]

STOPPING DISTANCE FORMULA

$$S = 0.15v + (V^2/130),$$

Where S is the Stopping distance in metres,

V is the test speed corresponding to 80% of design maximum speed in Km/h., Control force $F = 700$ Newtons.

Explanation.—For the purposes of this sub-rule, "unladen" means the construction equipment vehicle in travel mode without any load except the driver and another person for the specific purpose of supervising the test and the instruments, if any:

Provided that while the stopping distance formula mentioned above remain unchanged, the construction equipment using hydrostatic transmission, the brake test shall be performed by positioning the gear change lever to the neutral position.]

⁷⁸[⁷⁹**96-B. High Speed Braking Requirements.**]—For high speed braking, the following test procedure shall be followed, namely:—

(a) In the case of Category M-I, the P type, service brake test as defined under IS:11852-2001—Part3, shall be carried out in the engine connected mode at a test speed of 120km/h or at 80% of the design maximum speed of the vehicle, which ever is lower.

(b) The stopping distance requirements shall be according to the following formula, namely:—

⁷⁷ Substituted by G.S.R. 116(E), dated 27-2-2002 (w.e.f. 27-8-2002).

$$S - 0.1V + (V^2/130):$$

where, S is the Stopping Distance in mtrs.

V is the test speed in km/h, and

Control force F -500 Newtons.

Provided that this sub-rule shall be applicable in case of new vehicles yet to be type approved after six months, and in case of already type approved vehicles, twelve months, from the date of the commencement of the Central Motor Vehicles (Third Amendment) Rules,2002.]

^{78a}[Provided further that M1 category of vehicles manufactured on and from 1st day of April,2021 in case of new models and 1st day of April, 2022 in case of all models, having braking system conforming to IS 15986:2015 or AIS:151:2018, as amended from time to time, shall be deemed to comply with the requirements of this rule.]

⁸⁰[**96-C.Brakes for agricultural tractor.**—The braking system of the agricultural tractor shall conform to IS: 12061-1994 and ^{80c}[**IS 12207:2014**], as amended from time to time.]

^{80a}[Provided that every agricultural tractor manufactured on or after the 1st February, 2016 and coupled with agricultural trailer, shall meet the following requirements to facilitate agricultural trailer having hydraulic brake system as per AIS:043-2005 specification ^{80b}[*****], namely:-

(a) a hydraulic pump and valve with suitable pipe connections on the tractor;

(b) a hydraulic piping and pressure lines on the tractor supplied by the Original Equipment Manufacturer (OEM) as accessories, to be fitted on the tractor by their dealers which shall be terminated at the rear end of the tractor, to facilitate tapping of hydraulic line for trailer;

(c) the hydraulic line pressure available at the rear end

⁷⁸ Inserted by G.S.R. 400(E) dated 31-5-2002 (w.e.f. 31-5-2002).

^{78a} Inserted by G.S.R. 173(E), dated 01-03-2019 (w.e.f. 01-03-2019)

⁷⁹ Substituted by G.S.R. 720(E), dated 10-9-2003, for the figures, letter and words "96-A High Speed Braking Requirements" (w.e.f. 10-10-2003).

⁸⁰ Inserted by G.S.R. 111(E), dated 10-2-2004 (w.e.f. 10-8-2004).

^{80a} Substituted by G.S.R. 492(E), dated 15-6-2015 (w.e.f. 15-6-2015).

^{80b} Omitted by G.S.R. 1464(E), dated 27-11-2017 (w.e.f. 27-11-2017).

^{80c} Substituted by G.S.R.1461(E), dated 27-11-2017 (w.e.f. 27-11-2017).

of the tractor shall be clearly specified by the manufacturer for each type and model of the tractor in the owner's manual;

(d) the tractor shall have the minimum provision for connecting the trailer brake actuation cable or linkage.]

⁸¹[**96-D.Braking requirements for power tillers.**—The power tillers when coupled to a trailer shall meet the following requirements, namely:—

(i) the brake test for the power tiller coupled to a trailer shall be carried out with a gross combination weight not exceeding 1.5 tons as declared by the manufacturer;

(ii) The brake test shall be conducted at a speed of 15 km/h to meet the stopping distance requirement of 7.5 metres with the pedal effort not exceeding 600N;

(iii) The trailer coupled to the power tiller shall be fitted with a parking brake capable of holding the combination on an up-slope and down-slope gradient of 12%.]

^{81a}**[96-E. Brakes for combine harvester.-** (1) The brakes test shall be conducted in forward direction on dry hard road in good condition with the clutch disengage and cutter bar trailer with header assembly attached to reel of combine harvester.

(2) The service braking system of the unladen combine harvester shall be capable of bringing the vehicle to a halt within a specified stopping distance when brake is applied at the standard test speed as mentioned in the Table below:

TABLE

S.No.	Type of Combine	Load (Unloader)	Test Speed	Stopping Distance
1.	Self Propelled Combine harvester	-	20 km/h or max speed whichever is less	10 meter
2.	Tractor Powered Combine harvester	-	24 km/h or max speed whichever is less	10 meter

Maximum pedal force should not be more than 600N.]

⁸¹ R. 96-D inserted by G.S.R 589(E), dated 16-9-2005 (w.e.f 16-9-2006).

^{81a} Inserted by G.S.R. 212(E), dated 20-3-2015 (w.e.f. 1-4-2015).

97. Brakes for trailers.—(1)^{82[82a]}[Every trailer including modular hydraulic trailer], other than a tractor-drawn trailer, having five hundred kilograms and more of weight] shall have an efficient braking system which are capable of being applied when it is being drawn,—

(i) In the case of trailer having not more than two axles, to atleast all the wheels of one axle; or

(ii) In the case of a trailer having more than two axles, to at least all the wheels of two axles:

Provided that the braking system shall be so constructed that it is not rendered in effective by then on-rotation of the engine of the drawing vehicle.

(2) The provision of sub-rule (1) shall not apply to,—

(i) any land implement drawn by a motor vehicle;

(ii) any trailer designed for use and used by a local authority for street cleansing or by the fire service for fire fighting, which does not carry any load other than its necessary gear and equipment;

(iii) any disabled vehicle which is being drawn by a motor vehicle in consequence of its disablement.

⁸³[(3) *****]

98. Steering gears.—(1) The steering gear of every motor vehicle shall be maintained in good and sound condition, free from back-lash exceeding 30 degrees on the steering wheel, all ^{83a}[ball joints connecting the steering linkage,] shall be protected by rubber caps and where the connections are secured with bolts or pins, the bolts or pins shall be effectively locked.

⁸⁴[(2) On and after the 1st day of April, 2019, the steering gear of motor vehicles of categories L, M and N, shall conform to the Indian Standard IS: 12222-2011, as amended from time to time;]

⁸⁵[(3)⁸⁶[On and after 1st May, 2003], the steering effort of all motor vehicles other than three-wheelers not fitted with steering wheel, motor cycles, ⁸⁷[and invalid carriages] manufactured shall conform to the Indian Standard IS:11948-1999, as amended from time to time.]]

⁸²Substituted by G.S.R. 933(E), dated 28-10-1989 (w.e.f. 28-10-1989).

^{82a}Substituted by G.S.R. 212(E), dated 20-3-2015 (w.e.f. 1-4-2015).

⁸³Omitted by G.S.R. 1464(E), dated 27-11-2017 (w.e.f. 27-11-2017).

^{83a}Substituted by G.S.R. 338(E), dated 26-3-1993 (w.e.f. 26-3-1993).

⁸⁴Sub-R. (2) substituted by G.S.R. 1463(E), dated 27-11-2017 (w.e.f. 27-11-2017).

^{84a}Sub-R. (5) substituted by G.S.R. 111(E), dated 10-2-2004 (w.e.f. 10-8-2004).

⁸⁵Sub-R.(3) substituted by G.S.R. 400(E), dated 31-5-2002 (w.e.f. 31-5-2002).

⁸⁶Substituted by G.S.R. 845(E), dated 27-12-2002(w.e.f. 27-12-2002).

⁸⁷Substituted by G.S.R. 111(E), dated 10-2-2004 (w.e.f. 10-8-2004).

^{87a}[Provided that on and after the 1st day of April, 2019, the steering effort of all motor vehicles other than three wheelers not fitted with steering wheel, motor cycles and invalid carriages manufactured, shall conform to the Indian Standard IS: 11948-2010, as amended from time to time.]

⁸⁸[(3-A) On and after 1st October 2014, the steering effort of quadricycle shall conform to Indian Standards IS 11948-1999, as amended from time to time.]

⁸⁹[(4)Every heavy passenger motor vehicle manufactured after expiry of six month from the date of commencement of the Central Motor Vehicles (Amendment) Rules, 2000 (including the date of such commencement), shall be fitted with power steering gears.]

^{84a}[(5) The power steering shall be fitted in,—

(a) the Category N3 multi-axle vehicles on and from 1st May, 2004; and

(b) other than multi-axle vehicles of Category N3 on and from 1st December, 2004.]

⁹⁰**[98-A. Steering gears for construction equipment vehicles.—(1)**The steering system of every construction vehicle shall be maintained in good and sound condition, with backlash not exceeding 30 degrees on the steering wheel when tested with the engine running; ball-joints connecting the steering linkage of the mechanical steering system shall be protected by rubber caps and where the connections are secured with bolts or pins, the bolts or pins shall be effectively locked; in the case of hydrostatic steering system the moving parts shall be effectively sealed and protected from dust ingress.

(2) The steering system of the construction equipment vehicle shall be adequately designed to ensure efficient and effective control of the vehicle under all the driving conditions and shall be so constructed as to conform to the Indian Standards IS:12222- (1987), as modified from time to time.

^{87a} *Proviso added by G.S.R. 1463(E), dated 27-11-2017 (w.e.f. 27-11-2017).*

⁸⁸ *Inserted by G.S.R. 99(E), dated 19-2-2014 (w.e.f. 1-10-2014).*

⁸⁹ *Inserted by G.S.R. 65(E), dated 25-1-2000 (w.e.f. 25-1-2000).*

⁹⁰ *Inserted by G.S.R. 642(E), dated 28-7-2000 (w.e.f. 28-7-2000).*

(3) The steering effort of the construction equipment vehicles during normal Unladen operation shall not exceed 11.7 kg push/pull for hydrostatic steering system and 20 kg for manual steering wheel system when evaluated as per clauses 5.1 to 5.4 of Indian Standards IS: 11948-(1986) as specified by the Bureau of Indian Standards.]

⁹¹[98-B.Steering Gears for agricultural tractors.]—(1)The steering gear of agricultural tractor shall be maintained in good and sound condition, free from backlash exceeding 30 degrees on the steering wheels. All ball joints connecting the steering linkage shall be protected by rubber caps and where the connections are secured with bolts, or pins, the bolts or pins shall be effectively locked.

(2) The turning circle diameter and turning circle clearance diameter of every agricultural tractor shall conform to ^{91a}[**IS 11859:2004**], as amended from time to time.

(3) The steering effort requirement of agricultural tractor shall conform to Automotive Industry Standard (AIS):042 as amended from time to time, till such time the corresponding BIS standard is notified.]

⁹²[98-C.Steering gear for power tillers.]—The turning circle diameter and the turning clearance circle diameter of power tillers coupled to trailers, when measured as per IS:12222:1987, as amended from time to time, shall not exceed 10 metres.]

⁹³[98-D. Steering gears for combine harvester.]—(1) The turning clearance circle diameter of combine harvester, coupled to the trailer for header assembly, if any, when measured as per IS: 11859-2004, as amended from time to time, shall not exceed 20 meters, without brake condition.

(2) The steering effort requirement of combine harvester shall conform to AIS : 042-2004, as amended from time to time, till such time the corresponding Bureau of Indian Standard is notified.]

⁹¹. Inserted by G.S.R. 111(E), dated 10-2-2004(w.e.f.10-8-2004).

^{91a} Substituted by G.S.R.1461(E), dated 27-11-2017 (w.e.f. 27-11-2017).

⁹². R.98-C inserted by G.S.R. 589(E), dated 16-9-2005(w.e.f.16-9-2006).

⁹³. Inserted by G.S.R. 212(E), dated 20-3-2015(w.e.f.1-4-2015).

99. Forward and backward motion.—Every ⁹⁴[motor vehicle including ⁹⁵[construction equipment vehicle and agriculture tractor and combine harvester] other than a motor cycle and three-wheeled invalid carriages, shall be capable of moving under its own power ⁹⁶[in the reverse direction also]:

⁹⁷[Provided that power tillers with a riding attachment and power tillers coupled to trailers shall be capable of moving under its own power in the reverse direction also.]

100. Safety glass.— (1)The glass of windscreens and the windows of every motor vehicle ⁹⁸[other than agricultural tractors] shall be of safety glass:

Provided that in the case of three-wheelers and vehicles with hood and side covers, the windows may be of ⁹⁹[acrylic or plastic transparent sheet.]

Explanation.—For the purpose of this rule,—

(i) "safety glass" means glass ⁹⁹[conforming to the specifications of the Bureau of Indian Standards or any International Standards ¹[****]] and so manufactured or treated that if fractured, it does not fly or break into fragments capable of causing severe cuts;

(ii) any windscreen or window at the front of the vehicle, the inner surface of which is at an angle ²[more than thirty degrees] to the longitudinal axis of the vehicle shall be deemed to face to the front.

³[(2)The glass of the windscreens and rear window of every motor vehicle shall be such and shall be maintained in such a condition that the visual transmission of light is not less than 70%. The glasses used for side windows are such and shall be maintained in such condition that the visual transmission of light is not less than 50%, and shall conform to Indian Standards ⁴[IS: 2553—Part2—1992];

⁵[(3) The glass of the front windscreens of every motor vehicle ²[other than two-wheelers and agricultural tractors] manufactured after three years

⁹⁴. Substituted by G.S.R. 116(E), dated 27-2-2002, for "motor vehicle"(w.e.f.27-8-2002).

⁹⁵. Substituted by G.S.R. 212(E), dated 20-3-2015(w.e.f.1-4-2015).

⁹⁶. Substituted by G.S.R. 338(E), dated 26-3-1993(w.e.f.26-3-1993).

⁹⁷. Proviso inserted by G.S.R. 589(E), dated 16-9-2005 (w.e.f.16-9-2006).

⁹⁸. Inserted by G.S.R. 338(E), dated 26-3-1993(w.e.f.26-3-1993).

⁹⁹. Substituted by G.S.R. 933(E), dated 28-10-1989, for "approved by" (w.e.f.28-10-1989).

¹. Certain words omitted by G.S.R. 214(E), dated 18-3-1999 (w.e.f.18-3-1999).

². Substituted by G.S.R. 214(E), dated 18-3-1999, for certain words (w.e.f. 18-3-1999).

³. Sub-R. (2) substituted by G.S.R. 338(E), dated 26-3-1993 (w.e.f. 26-3-1993).

⁴. Substituted by G.S.R. 214(E), dated 18-3-1999, for "IS:2253 Part 2" (w.e.f. 18-3-1999)

⁵. Inserted by G.S.R. 338(E), dated 26-3-1993 (w.e.f. 26-3-1993).

from the coming into force of the Central Motor Vehicles (Amendment) Rules, 1993 shall be made of laminated safety glass:

⁶[Provided that on and from three months after the commencement of the Central Motor Vehicles (Amendment) Rules, 1999, the glass of the front windscreen of every motor vehicle other than two-wheelers and agricultural tractors shall be made of laminated safety glass conforming to the Indian Standards IS:2553—Part2—1992.]

Explanation.—For the purpose of these sub-rules "laminated safety glass" shall mean two or more pieces of glass held together by an intervening layer or layers of plastic materials. The laminated safety glass will crack and break under sufficient impact, but the pieces of the glass tend to adhere to the plastic material and do not fly, and if a hole is produced, the edges would be less jagged than they would be in the case of an ordinary glass.

⁷[(3-A) The glass of the front windscreen of a construction equipment vehicle Manufactured after 3 years from the date of commencement of the Central Motor Vehicles (Sixth Amendment) Rules, 2000 shall be made of laminated safety glass.]

⁸[(3-B) The glass of the front wind screen of a combine harvester shall be made of laminated safety glass.]

(4) Notwithstanding anything contained in this rule if the Central Government is of the opinion that it is necessary and expedient to do so in public interest, it may, by order published in the Official Gazette, exempt ⁹[any motor vehicle including construction equipment vehicle] for use by any person, from the provisions of this rule.]

¹⁰[101. Windscreen wiper.]—(1) An efficient power operated ¹¹[* * *] windscreens wiper shall be fitted to every motor vehicle having a windscreens, other than three-wheeled invalid carriage ¹²[and motor cycles].

⁶. Inserted by G.S.R. 214(E), dated 18-3-1999 (w.e.f. 18-3-1999).

⁷. Inserted by G.S.R. 642(E), dated 28-7-2000 (w.e.f. 28-7-2000).

⁸. Inserted by G.S.R. 212(E), dated 20-3-2015 (w.e.f. 1-4-2015).

⁹. Substituted by G.S.R. 642(E), dated 28-7-2000 (w.e.f. 28-7-2000).

¹⁰. Substituted by G.S.R. 338(E), dated 26-3-1993 (w.e.f. 26-3-1993).

¹¹. The words "or foot operated" omitted by G.S.R. 214(E), dated 18-3-1999 (w.e.f. 18-3-1999).

¹². Substituted by G.S.R. 589(E), dated 16-9-2005, for "motor cycles and three-wheelers of engine capacity not exceeding 500cc" (w.e.f. 1-4-2006).

(2) One year from the date of commencement of Central Motor Vehicles (Amendment) Rules, 1993, ¹³[all motor vehicles other than three-wheelers, motor cycles and invalid carriages ¹⁴[manufactured on and after 1st January, 2003 in respect of Category M 1 vehicles, and in respect of other vehicles, on and after 1st May, 2003], having a wind screen shall be fitted with a wind screen wiping system which shall conform to the requirements laid down in the following standards, as amended from time to time, till such time the corresponding Bureau of Indian Standards specifications are notified:

(i) ^{14a}[IS:15804-2008], in the case of M-1 category of vehicles

(ii) ^{14a}[IS:15802-2008], in the case of other vehicles.]

^{14b}[(iii) AIS 045/2004, in the case of quadricycles, on and after 1st October, 2014.]

¹⁵[(2-A) ^{15a}[All construction equipment vehicles and combine harvesters] having windscreens shall be fitted with an efficient power operated windscreen wiping system. The windscreen wiping system shall conform to the requirements of the standards as may be specified from time to time under these rules.]

¹⁶[(2-B) On and after 1st April, 2015, all agricultural tractors having wind screens shall conform to AIS 011/2001, as amended from time to time till such time the corresponding Bureau of Indian Standards specifications are notified under the Bureau of Indian Standards Act, 1986 (63 of 1986).]

¹⁷[* * *]

18[102. Signalling devices, direction indicators and stop lights.—¹⁹[(1) The signal to turn to the right or to the left shall be given by electrically operated direction indicator lamps on all motor vehicles including ^{15a} [construction equipment vehicles and the combined harvester, and such construction equipment vehicles and combine harvester] be fitted and maintained so that the following conditions are met, namely:—

¹³. Substituted by G.S.R. 400(E), dated 31-5-2002 (w.e.f. 31-5-2002).

¹⁴. Substituted by G.S.R. 845(E), dated 27-12-2002, for "manufactured on and after 1st January, 2003 (w.e.f. 27-12-2002).

^{14a}. Substituted by G.S.R. 291(E), dated 24-4-2014 (w.e.f. 24-4-2014).

^{14b}. Inserted by G.S.R. 99(E), dated 19-2-2014 (w.e.f. 1-10-2014).

¹⁵. Substituted by G.S.R. 116(E), dated 27-2-2002, for sub-R. (2-A) (w.e.f. 27-8-2002).

^{15a}. Substituted by G.S.R. 212(E), dated 20-3-2015 (w.e.f. 1-4-2015).

¹⁶. Inserted by G.S.R. 291(E), dated 24-4-2014 (w.e.f. 24-4-2014).

¹⁷. Sub-R.(3) omitted by G.S.R. 589(E), dated 16-9-2005 (w.e.f. 16-9-2005).

¹⁸. Substituted by G.S.R. 338(E), dated 26-3-1993 (w.e.f. 26-3-1993).

¹⁹. Sub-R. (1) substituted by G.S.R. 589(E), dated 16-9-2005 (w.e.f. 1-4-2006).

(i) The direction indicator lamps shall be of amber colour which are illuminated to indicate the intention to turn, by a light flashing at the rate of not less than 60 and not more than 120 flashes per minute.

(ii) The light emitted by the lamp when in operation shall be clearly visible from both front and rear of the vehicle.

(iii) The minimum illuminated area of each direction indicator shall be 60 square centimeters:

Provided that nothing contained in this sub-rule shall apply to L1 category of motor cycles.]

²⁰[(2) On all vehicles other than motor cycles, ²¹[the intention to stop the vehicle (other than construction equipment vehicle ^{21a}[and the combine harvester] having hydrostatic brakes)] shall be indicated by two electrical stop lamps which shall be red in colour and shall be fitted one on each left and right-hand sides at the rear of the vehicle. The stop lamps shall light up on the actuation of the service brake control. In the case of motor cycle, the intention to stop the vehicle shall be indicated by one stop lamp at the rear which shall light up on the actuation of the control operating the brakes on the rear wheels.]

(3) One year from the date of commencement of the Central Motor Vehicles (Amendment) Rules, 1993, the stop lamp of every motor cycle shall be so designed and fitted that it will light up on actuation of any of the controls which actuate the brakes on any wheel.]

²²[(4) In the case of modular hydraulic trailer,-

(i) The intention to stop shall be indicated by two electrical stop lamps which shall be red in color and shall be fitted one each on left and right hand sides at the rear of the vehicles;

(ii) The stop lamps shall light up on the actuation of the service brake control of the puller tractor;

(iii) at least two direction indicators of amber colour shall be fitted, which are illuminated to indicate intention to turn by a light and the minimum illuminated area of each indicator shall be 60 sq.cm.]

²⁰. Sub-R. (2) substituted by G.S.R. 214(E), dated 18-3-1999 (w.e.f. 18-3-1999).

²¹. Substituted by G.S.R. 642(E), dated 28-7-2000 (w.e.f. 28-7-2000).

^{21a}. Inserted by G.S.R. 212(E), dated 20-3-2015 (w.e.f. 1-4-2015).

²². Inserted by G.S.R. 212(E), dated 20-3-2015 (w.e.f. 1-4-2015).

^{22a}. Substituted by G.S.R. 116(E), dated 27-2-2002 (w.e.f. 27-8-2002).

103. Position of the indicator.—(1) A direction indicator shall be fitted and every direction indicator shall be so designed and fitted that ^{22a}[the driver of the vehicle including a construction equipment vehicle] ²²[and the combine harvester] when in his driving seat is aware that it is operating correctly.

²³ [(2) One year from the date of commencement of the Central Motor Vehicles (Amendment) Rules, 1993, ^{22a}[every motor vehicle including a construction equipment vehicle] ²²[and the combine harvester] other than ²⁴[* * *] motor cycles shall be equipped with such a device that when the vehicle is in an immobilized condition all the direction indicators flash together giving hazard warning to other road users.]

23[104.Fitment of reflectors. .—²⁵[(1) Every motor vehicle manufactured on and after the 1st day of April, 2006, including trailers and semi-trailers, other than ^{23a}[****] motor cycles shall be fitted with two red reflectors, one each on both sides at their rear. Every motor cycle shall be fitted with at least one red reflex reflector at the rear:

²⁶[Provided that in respect of the vehicles of –

(i) Category N-1 and Category N-2, 3.5 tonnes and above but less than 7.5 tonnes Gross Vehicle Weight, ^{23b}[****], shall be affixed at the front with a white-reflective tape and at the rear with a red reflective tape running across the width of the body and the tapes affixed at front and rear shall be not less than 20 mm width and shall conform to the requirement of Annexures 4,5 and 6 of AIS:090-2005 till the corresponding BIS specifications are notified under the Bureau of Indian Standards Act, 1986 (63 of 1986).

(ii) Category N-3 and Category N-2, 7.5 tonnes and above Gross Vehicle Weight, ^{23b}[****], shall be affixed at the front with a white reflective tape running across the width of the body and the tape affixed at the front shall not be less than 50 mm width and shall conform to the requirement of Annexures 4, 5 and 6 of AIS:090-2005 till the corresponding BIS specifications are notified under the Bureau of Indian standards Act, 1986 (63 of 1986).

²³. Substituted by G.S.R. 338(E), dated 26-3-1993 (w.e.f. 26-3-1993).

^{23a,b} The words "three wheelers and", "manufactured on and after 1st day of April, 2009," omitted by G.S.R.807(E), dated 23-06-2019 (w.e.f. 01-04-2020) respectievly

²⁴. The words "three wheelers of engine capacity not exceeding 500 cc and" omitted by G.S.R.

589(E), dated 16-9-2005 (w.e.f. 1-4-2006).

²⁵. Sub-R (1)and the proviso substituted by G.S.R.589(E), dated 16-9-2005 (w.e.f. 16-9-2005).

²⁶. Substituted by G.S.R. 784(E), dated 12-11-2008 (w.e.f. 12-11-2008).

(iii) Category N-3 including trailers or semi-trailers and Category N-2, 7.5 tonnes and above GVW along with trailers or semi-trailers,^{23b}[****], shall be affixed with reflective contour marking at the rear and side in accordance with AIS:090-2005 till the corresponding BIS specifications are notified under the Bureau of Indian Standards Act, 1986 (63 of 1986).

(iv) Category M-2 and M-3, ^{23b}[*****], shall be affixed at the front with white reflective tape and at the rear with red reflective tape running across the width of the body and the sides of M3 category vehicles shall be affixed with yellow reflective tape running across the length of the body but tapes so affixed shall not be less than 50 mm width and shall conform to Annexure 4, 5 and 6 of AIS:090-2005, till the corresponding BIS specifications are notified under the Bureau of Indian Standards Act, 1986 (63 of 1986).]

^{27a}[(v) three wheeled vehicles including e-rickshaw and e-cart, shall be affixed at the front with a white reflective tape and at the rear with a red reflective tape running across the width of the body and the tapes affixed at the front and rear shall be not less than 20mm width and shall conform to the requirement of Annexures 4, 5 and 6 of AIS:090-2005, till the corresponding BIS specification are notified under the Bureau of Indian Standards Act, 2016 (11 of 2016).]

(2) [Omitted]^{27b}

²⁸[(3) All trailers including semi-trailers, other than those drawn by three-wheeled tractors ²⁷[* * *] shall be fitted with the following reflex reflectors, namely,—

(i) two white reflex reflectors in the front, one each at the right and left corners at a height not exceeding 1500 mm above the ground,

(ii) two red reflex reflectors in the rear, one each at the right and left corners at a height not exceeding 1500 mm above the ground, and

(iii) the area of the reflectors referred to above shall not be less than 28.5 sq.cm. in the case of trailers with overall length exceeding 6 metres and shall not be less than 7 sq. cm. in case of other trailers.]

²⁷. The words "of Engine capacity not exceeding 5 cc" omitted by G.S.R. 589(E), dated 16.9.2005 (w.e.f. 1.4.2006)

^{27a} "clause v " inserted vide G.S.R.807(E), dated 23-06-2019 (w.e.f. 01-04-2020)

^{27b} Omitted by G.S.R. 1192(E), dated 10-12-2018 (w.e.f. 10-12-2018).

²⁸. Substituted by G.S.R. 1192(E), dated 10-12-2018 (w.e.f. 10-12-2018).

²⁸[4) The reflectors referred to in this rule and in rule 110 fitted with motor vehicles, manufactured on and after the 1st day of October, 2019, shall be of reflex type conforming to AIS-057 (Rev. 1): 2010 standard as amended from time to time, till such time the corresponding BIS specifications are notified under the Bureau of Indian Standards Act, 2016 (11 of 2016)].

²⁹[5) On and from the date of commencement of the Central Motor Vehicles Rules, 1993, every motor vehicle and trailer of length exceeding 6 meters shall be fitted with two amber colored reflex reflectors on each left hand and right hand of the vehicle, one set as close to the front end as possible and the other set as close to the rear end as possible. The height of the side reflectors above the ground shall not be more than 1500 mm. The area of each reflector shall not be less than 28.5 sq. cm.

Provided that in case the distance between the two side reflectors is more than 3 meters, additional intermediate side reflectors shall be fitted so that the distance between any adjacent side reflector is not more than 3 meters.]

³⁰^{[31}**104-A. Fitment of reflectors on construction equipment vehicles and combine harvesters.**—All construction equipment vehicles and combine harvesters shall be fitted with—]

(i) two white reflex reflectors in the front of the vehicle on each side and visible to on- coming vehicles from the front at night;

^{31a}[Provided that in case of combine harvester, the height of front white reflex-reflector shall not be more than 2100 mm above the ground in the case of unobstructed vision from the front and the implement or device shall not obstruct the visibility of the front reflex-reflectors to the oncoming vehicles;]

(ii) two red reflectors in the rear of the vehicle, one each at right and left corners, at a height not exceeding 1500 mm above the ground in the case of unobstructed vision from the rear and the implement or device shall not obstruct the visibility of the reflectors to the following vehicle;

³²[Provided that in case of combine harvester, the height shall not exceed 2100 mm above the ground;]

^{29.} Substituted by G.S.R. 338(E), dated 26.3.1993 (w.e.f. 26.3.1993)

^{30.} Inserted by G.S.R. 642(E), dated 28-7-2000 (w.e.f. 28-7-2000).

^{31.} Substituted by G.S.R. 212(E), dated 20-3-2015 (w.e.f. 1-4-2015)

^{31a.} Inserted by G.S.R. 212(E), dated 20-3-2015 (w.e.f. 1-4-2015)

^{32.} Inserted by G.S.R. 212(E), dated 23-3-2015 (w.e.f. 1-4-2015).

(iii) two sets of amber coloured side reflex reflectors, one each on left hand and right hand sides of the vehicle, one set as close to the front end and the other set as close to the rear end as possible to the basic machine without attachments and if the distance between the two amber side reflex reflectors is more than 3 metres, additional intermediate amber side reflex reflectors shall be fitted so that the distance between any adjacent amber side reflex reflector is not more than 3 metres:

³³[Provided that the fitment of reflex reflectors on the implements such as booms of cranes and arms of shovels, shall not be mandatory. However, wherever possible the fitment of these reflectors may be done considering the working environment/nature of these machines in the fields;]

(iv) the reflecting area of each reflex reflector shall not be less than 28.5 sq. cms;

(v) the construction equipment vehicle ³²[and combine harvester] shall be fitted with a retro-reflective tape or retro-reflective paint of not less than 20 millimeters width, running across the width of the body at the front and rear, and the colour of the reflective tape or reflective paint shall be white at the front and red at the rear;

(vi) the reflectors referred to in this sub-rule, shall be of reflex type conforming to Indian Standards IS: 8339 specified by the Bureau of Indian Standards;

³⁴[(vi) the reflect reflectors referred to in this sub-rule, shall be reflex type conforming to AIS-057 (Rev.1):2010 standard as amended from time to time, till such time the corresponding BIS specifications are notified under the Bureau of Indian Standards Act, 2016 (11 of 2016) for the vehicles manufactured on and after the 1st day of October, 2019.]

104-B. Fitment of reflectors for agricultural tractors. —(1) Every agricultural tractor manufactured on and after the 1st day of April, 2006 shall be fitted with two non- triangular red reflectors of not less than 7 sq. cm reflecting area one each on both sides at the rear.

³³. Substituted by G.S.R. 116(E), dated 27-2-2002, for the proviso (w.e.f. 27-8-2002).

³⁴. Substituted by G.S.R. 1192(E), dated 10-12-2018 (w.e.f. 10-12-2018).

³⁴ [(2) The reflectors referred to in sub-rule (1) fitted with agricultural tractors manufactured on and after the 1st day of October, 2019, be of reflex type conforming to AIS-057 (Rev.1): 2010 standard as amended from time to time, till such time the corresponding BIS specifications are notified under the Bureau of Indian Standards Act, 2016 (11 of 2016).]

104-C. Fitment of reflectors on power tillers. —³⁴[(1) Every power tiller manufactured on and after the 1st day of October, 2019, shall be fitted with two white reflex reflectors of not less than seven square centimeters reflecting area in front of the power tiller, and one on each side and visible to oncoming vehicles from the front at night, conforming to AIS-057 (Rev.1): 2010 standards as amended from time to time, till such time the corresponding BIS specifications are notified under the Bureau of Indian Standards Act, 2016 (11 of 2016)..

(2) In the case of trailers attached to power tillers, two red reflectors of not less than 7 sq.cm reflecting area in the rear side, one each at right and left corners, at a height not exceeding 1500 mm above the ground shall also be fitted.]

³²[104-D. Fitment of retro-reflective tapes or reflectors and rear marking plate on modular hydraulic trailer. - (1) Every modular hydraulic trailer shall be fitted with two red reflective tapes having width not less than 50 mm at the rear and front and amber reflective tape having width not less than 50 mm on the sides, conforming to AIS:090:2005, as amended from time to time, till the corresponding Bureau of Indian Standard specifications are notified under the Bureau of Indian Standards Act, 1986 (63 of 1986).

(2) Every modular hydraulic trailer shall be fitted with two red reflex reflectors having area not less than 28.5 sq. cm. and shall be fitted one each on left and right hand sides at the rear and front and amber reflex reflector having area not less than 28.5 sq. cm on the sides one set as close to the front end and the other set as close to the rear end as possible, conforming to AIS:057:2005, as amended from time to time till the corresponding Bureau of Indian Standards specifications are notified under the Bureau of Indian Standards Act, 1986 (63 of 1986).Every Modular hydraulic trailer shall be fitted with rear marking plate confirming to AIS-089.]

105. Lamps.—³⁵[(1) Save as hereinafter provided, every motor vehicle, while being driven in a public place, during the period half an hour after sunset and at any time when there is no sufficient light, shall be lit with the following lamps which shall render clearly discernible persons and vehicles on the road at a distance of one hundred and fifty five metres ahead:—

(a) *in the case of motor vehicle other than three-wheelers, three-wheeled invalid carriages and motor cycles, two or four head lamps;*

(b) *in the case of ^{35aa}[****], three-wheelers and three-wheeled invalid carriages one or two head lamps;*

^{35ab}[(bb) every two wheeler manufactured on and after the 1st April, 2017, shall have one or two head lamps, conforming to the applicable standards in force for performance and installation requirements as notified by the Central Government from time to time vide according to sub-rule (1) of rule 124, which shall automatically switch on when the engine is running:

Provided that, the above condition of the head lamp being lit when the engine is running is deemed to be satisfied if daytime running lamp is provided, conforming to the applicable standards in force for performance and installation requirements as notified by the Central Government from time to time, which shall be lit automatically if the engine is running:

Provided further that the daytime running lamp shall be lit off automatically if the engine is running and the head lamp is switched on;]

(c) in the case of a side car attached to a motor cycle one lamp showing a white light to the front;]

(d) in the case of construction equipment vehicle ^{35a}[and combine harvester], two or four lamps showing to the front white light visible from a distance of one hundred and fifty five metres ahead.]

(2) Every such motor vehicle other than a ³⁶[* * *] three-wheeler shall also carry—

(i) ³⁷[two lamps (hereinafter referred to as the rear lamp) showing to the rear a red light visible in the rear from a distance of one hundred

³⁵. Sub-R. (1) substituted by G.S.R. 589(E), dated 16-9-2005 (w.e.f. 14-2006).

^{35a}. Inserted by G.S.R. 212(E), dated 20-3-2015 (w.e.f. 1-4-2015).

^{35aa} The words "a motor cycle and" omitted by G.S.R. 188(E), dated 22-02-2016 (w.e.f. 22-02-2016

^{35ab}. Inserted by G.S.R. 188(E), dated 22-02-2016 (w.e.f. 22-02-2016

³⁶. The words "a motor cycle and" omitted by G.S.R. 214(E), dated 18-3-1999 (w.e.f. 18-3-1999).

³⁷. Substituted by G.S.R. 214(E), dated 18-3-1999 (w.e.f. 18-3-1999).

and fifty-five metres; and in the case of a motor cycle one lamp showing a red light to the rear visible from a distance of seventy- five metres]; and

(ii) lamp, which may be the rear lamp or some other device, illuminating with a white light the whole of the registration mark exhibited³⁸[³⁹[on the rear of the vehicle including construction equipment vehicle]^{35a}[and combine harvester], and on the side in the case of construction equipment vehicle]^{35a}[and combine harvester] so as to render it legible from a distance of fifteen metres to the rear:

Provided that when a motor vehicle is drawing another vehicle or vehicles and the distance between such vehicles does not exceed 1.5 metres, it shall be sufficient if the last drawn vehicle carries a rear lamp or a lamp illuminating the rear registration mark:

⁴⁰[Provided further that every construction equipment vehicle^{35a}[and combine harvester] shall also carry two lamps showing to the rear red lights visible in the rear from a distance of one hundred and fifty- five metres.]

⁴¹[(3) On and from the commencement of the Central Motor Vehicles (Amendment) Rules, 1993, all the obligatory front head lamps of a motor vehicle other than motor cycles shall be as nearly as possible of the same power and fixed at a height as specified in Indian Standards³⁷[IS: 8415—1977] (clause 4.1):

Provided that in the case of four-wheel drive cross country vehicles, the maximum height of the said front head lamps may be as per limits specified in Indian Standards 37[IS: 8415—1977] (clause 4.1.1):

⁴²[* * *]

Provided further that on and from the commencement of the Central Motor Vehicles (Amendment) Rules, 1993, all vehicles other than three-wheelers of engine capacity less than 500 cc, motor cycles and three-wheeled invalid carriages manufactured shall be fitted with two rear lamps showing red light to the rear.]

^{38.} Substituted by G.S.R. 642(E), dated 28-7-2000, for "on the rear of the vehicle" (w.e.f. 28-7-2000).

^{39.} Substituted by G.S.R. 116(E), dated 27-2-2002, for "on the rear of the vehicle" (w.e.f. 27-8-2002).

^{40.} Inserted by G.S.R. 642(E), dated 28-7-2000 (w.e.f. 28-7-2000).

^{41.} Substituted by G.S.R. 338(E), dated 26-3-1993 (w.e.f. 26-3-1993).

^{42.} Proviso omitted by G.S.R. 111(E), dated 10-2-2004 (w.e.f. 10-8-2004).

^{42a}[(3-A) On and from the commencement of the Central Motor Vehicles (Sixth Amendment) Rules, 2000, all the obligatory front head lamps of a construction equipment vehicle shall be as nearly as possible of the same power and fixed at a height so that front visibility is maintained and farthest point of equipment/attachment is clearly seen by on-coming traffic]

⁴³[(3-B) All the obligatory front head lamps of a combine harvester shall be as nearly as possible of the same power and fixed at a height so that front visibility is maintained and farthest point of equipment or attachment is clearly seen by oncoming traffic.]

(4) The rear lamp shall be fixed either on the centre line of the vehicle or to the right hand side, and save in the case of a transport vehicle, at a height of not exceeding one metre above the ground:

⁴⁴[* * *]

(5) In the case of a transport vehicle, the rear light may be fixed at such level as may be necessary to illuminate the registration mark.

(6) Every heavy goods carriage ⁴⁵[including trailers] shall be fitted with a red indicator lamp of size of thirty centimetres by ten centimetres on the extreme rear most body cross beam and in the case of a vehicle not constructed with body in the rear, the indicator lamp shall be fitted near the right rear light above the rear number plate:

⁴⁶[Provided that every construction equipment vehicle of an unconventional or extraordinary type in travel mode shall be fitted or installed with a red indicator lamp of size of not less than 100 square centimetres on the extreme rearmost point of the body.]

⁴⁵[(7) On and from the date of commencement of the Central Motor Vehicles (Amendment) Rules, 1999, every motor vehicle manufactured shall be fitted with at least one lamp which shall automatically be operated, throwing a white light to the rear, when the vehicle is being driven in the reverse gear.]

^{42a}. Inserted by G.S.R. 642 (E), dted 28.7.2000 (w.e.f. 28.7.2000)

⁴³. Inserted by G.S.R. 212(E), dated 20-3-2015 (w.e.f. 1-4-2015).

⁴⁴. Proviso omitted by G.S.R. 111(E), dated 10-2-2004 (w.e.f. 10-8-2004).

⁴⁵. Substituted by G.S.R. 214(E), dated 18-3-1999 (w.e.f. 18-3-1999).

⁴⁶. Added by G.S.R. 642(E), dated 28-7-2000 (w.e.f. 28-7-2000).

⁴⁷[(8) In the case of vehicles, other than three-wheelers of engine capacity not exceeding 500 CC, which are attached with trailers, all the lamps required to be fitted on the rear of the vehicle shall be fitted at the rear of the trailer.]

⁴⁸[(8-A) On the commencement of the Central Motor Vehicles (Sixth Amendment) Rules, 2000, every construction equipment vehicle shall be fitted with two lamps at the rear throwing light to the rear when the vehicle is being driven in the reverse gear and there shall also be an audible warning system operating when the vehicle is being driven in the reverse gear, the audible warning system and the light being automatically operated when the vehicle is in reverse gear.]

⁴³[(8-B) Every combine harvester shall be fitted with two lamps at the rear throwing light to the rear when the vehicle is being driven in the reverse gear and there shall also be an audible warning system operating when the vehicle is being driven in the reverse gear so that the audible warning system and the light are automatically operated when the vehicle is in reverse gear.]

106. Deflection of lights.—⁴⁹[(1) No head lamp showing a light to the front shall be used on any motor vehicle including agricultural tractor and construction equipment vehicle ⁴³[and combine harvester] (whether fitted with single or dual head lamp) unless such lamp is so constructed, fitted and maintained that the beam of light emitted there from meet the requirements of respective safety standards notified under rules 124 and 124-A.]

⁵⁰[* * *]

⁵¹**[107. Top lights.]**—Every goods vehicle including trailer and semi-trailer other than three-wheelers and vehicles with overall width not exceeding 2.1 metres shall be fitted with two white lights at the top right and left corners ⁵²[showing

⁴⁷. Inserted by G.S.R. 214(E), dated 18-3-1999 (w.e.f. 18-3-1999).

⁴⁸. Added by G.S.R. 642(E), dated 28-7-2000 (w.e.f. 28-7-2000). Previously inserted by G.S.R. 214(E), dated 18-3-1999. [There seems to be some confusion/mistake in the language of CI. 13(f) of G.S.R. 214(E), dated 18-3-1999 and CI. 13(e) of G.S.R. 642(E), dated 28-7-2000—Ed.]

⁴⁹. Substituted by G.S.R. 291(E), dated 24-4-2014 (w.e.f. 24-4-2014).

⁵⁰. Sub-R. (2) omitted by G.S.R. 291(E), dated 24-4-2014 (w.e.f. 24-4-2014).

⁵¹. Substituted by G.S.R 338(E), dated 26-3-1993 (w.e.f. 26-3-1993).

white light to the front] and two red lights at the top right and ⁵²[showing red light to the rear]. The lights shall remain lit when the vehicle is kept stationary on the road during night and at the time of poor visibility:

Provided that in the case of goods carriage without a full body in the rear, provision for fitting of the top light at the rear shall not be necessary.]

⁵³**[107-A. Implement lights for construction equipment vehicle.]**— Construction equipment vehicle having implements with front overhang greater than 60% of wheelbase shall be fixed with additional implement light of amber colour at a location nearest to the extreme edge of the implement without affecting the functions of showing light in all directions and where the implement is more than 3 metres in length, additional amber coloured lamps shall be fixed at a distance of not exceeding 3 metres for the entire length of the implement:

Provided that in case of rear overhang the additional implement lights shall be in red colour.]

⁵⁴**[108. Use of red, white or blue light.]**—(1) No motor vehicle shall show a red light to the front or light other than red to rear:

Provided that the provisions of this rule shall not apply to—

(i) the internal lighting of the vehicle; or

^{54a}[(ii) the amber light, if displayed by any direction indicator or as top light used on vehicle for operating within the premises such as airports, ports, mines and project sites, without going outside the said premises on to public roads;]

(iii) ^{54c} [***]

^{54b} (iv) the blinker type of red light with purple glass fitted to an ambulance van used for carrying patients; or

(v) ^{54c} [***]

(vi) white light illuminating the rear number plate;

(vii) white light used while reversing;

(viii) plough light provided in agricultural tractors for illuminating the implement's working area on the ground in agricultural field operations.

⁵². Substituted by G.S.R. 214(E), dated 18-3-1999 (w.e.f. 18-3-1999).

⁵³. Inserted by G.S.R. 642(E), dated 28-7-2000 (w.e.f. 28-7-2000)

⁵⁴. Substituted by G.S.R. 400(E), dated 31-5-2002 (w.e.f. 31-5-2002).

^{54a}Substituted by G.S.R. 423(E), dated 01-05-2017 (w.e.f. 01-05-2017).

^{54b}. Substituted by G.S.R. 868(E), dated 8.9.2016 (w.e.f. 1.4.2018)

^{54c} Omitted by G.S.R. 423(E), dated 01-05-2017 (w.e.f. 01-05-2017).

(2) ^{54c} [***]

(3) ^{54c} [***]

(4) Use of multi-coloured red, blue and white light shall be permitted only on vehicles specifically designated for ^{54d}[such emergency and disaster management duties as may be specified by the Central Government].

(5) ^{54c} [***]

(6) ^{54c} [***]

⁵⁵[(7) On and after the 1st April, 2018, the top lights (warning lamps) fitted on Road Ambulances shall be in accordance with AIS:125(Part 1):2014, as amended from time to time for all types of ambulances specified therein, till the corresponding BIS specifications are notified under the Bureau of Indian Standards Act, 1986 (63 of 1986).]

⁵⁵[55a]108-A. Use of red or white light on construction equipment vehicles and combine harvesters.—No construction equipment vehicle ^{55b}[and combine harvester] shall show a red light to the front or light other than red to the rear:

Provided that the provision of this rule shall not apply to:—

- (i) the internal lighting of the vehicle;
- (ii) the amber light, if displayed by any direction indicator or top light;
- (iii) white light illuminating the rear or side registration number plate;
- (iv) white light used while reversing;
- (v) light provided for illuminating the implement's working area on the ground in off-highway or construction operations.]

^{55b}[108-B. Use of beacon or blinking lamp on puller tractor.— The puller tractor shall be fitted with two beacon or blinking lamps, which are amber in color, one each on left and right hand side on top of the cabin.]

⁵⁶[109. Parking light.—⁵⁷[^{55b}[Every construction equipment vehicle, combine harvester and motor vehicle] and every motor vehicle other than] ⁵⁸[* * *]] motor cycles and three-wheeled invalid carriages shall be provided with one

^{54d} Certain words Substituted by G.S.R. 423(E), dated 01-05-2017 (w.e.f. 01-05-2017).

⁵⁵. Inserted by G.S.R. 642(E), dated 28-7-2000 (w.e.f. 28-7-2000).

^{55a}. Substituted by G.S.R. 212(E), dated 20-3-2015 (w.e.f. 1-4-2015).

^{55b}. Inserted by G.S.R. 212(E), dated 20-3-2015 (w.e.f. 1-4-2015).

⁵⁶. Substituted by G.S.R. 338(E), dated 26-3-1993 (w.e.f. 26-3-1993).

⁵⁷. Substituted by G.S.R. 642(E), dated 28-7-2000 (w.e.f. 28-7-2000).

⁵⁸. The words "three wheelers of engine capacity not exceeding 500 cc" omitted by G.S.R. 589(E), dated 16-9-2005 (w.e.f. 1-4-2006).

white or amber parking light on each side in the front. In addition to the front lights, two red parking lights one on each side in the rear shall be provided. The front and rear parking lights shall remain lit even when the vehicle is kept stationary on the road:

Provided that these rear lamps can be the same as the rear lamps referred to in rule 105, sub-rule (2):

⁵⁹[* * *]

⁵⁶[Provided also that construction equipment vehicles ^{55c}[and combine harvesters], which are installed with flood light lamps or spot lights at the front, rear or side of the vehicle for their off-highway or construction operations, shall have separate control for such lamps or lights and these shall be permanently switched off when the vehicle is travelling on the road.]

⁵⁶[**110.**⁶⁰**[Lamps on three-wheelers].**—Every ⁶⁰[three-wheeler] shall be fitted with one front head lamp and ⁶¹[two side white or amber lights] or two front lamps on the body. In addition to the front lamp or side lights, it shall be fitted with ⁶¹[two rear lamps showing to the rear red light] visible from a distance of 75 metres and a white light illuminating the registration mark exhibited on the rear of the vehicle so as to render it legible from a distance of 15 metres; and also two red reflex reflectors each having a reflecting area of not less than seven square centimetres:

Provided in case where these vehicles are attached with trailers, the rear fitments mentioned in this rule and direction indicator system mentioned in rule 102 shall also be provided at the rear of the trailer:]

⁶²[Provided further that fitment of one head lamp shall be applicable only in case of three-wheelers with overall width not exceeding 1400 mm and in such cases the side lights shall be amber in colour.]

^{62b}[Provided also that, on and after the 1st day of October, 2019, the filament lamp (bulb) fitted in headlamp of three wheelers shall be as per AIS-134:2016, as amended from time to time, till the corresponding Bureau of Indian Standards (BIS) specifications are notified under the Bureau of Indian Standards Act, 2016 (11 of 2016)].

⁵⁹. Proviso omitted by G.S.R. 111(E), dated 10-2-2004 (w.e.f. 10-8-2004).

⁶⁰. Substituted by G.S.R. 589(E), dated 16-9-2005, (w.e.f. 1-4-2006).

⁶¹. Substituted by G.S.R. 214(E), dated 18-3-1999 (w.e.f. 18-3-1999).

⁶². Proviso inserted by G.S.R. 589(E), dated 16-9-2005 (w.e.f. 1-4-2006).

^{62a} Proviso inserted by G.S.R. 1192(E), dated 10-12-2018 (w.e.f. 10-12-2018).

^{62b} Proviso inserted by G.S.R. 1225(E), dated 20-12-2018 (w.e.f. 20-12-2018).

^{62a}[Provided also that the first and second proviso shall not apply to three wheelers with overall width not exceeding 1400 mm manufactured on and after the 1st day of October, 2019.]

111. Prohibition of spot lights, etc.—No spot light or search light shall be carried on the front of any vehicle except in exceptional circumstances with the prior approval of the registering authority.

Smoke, vapour, spark, ashes, grit and oil

112. Exhaust gases.—Every motor vehicle shall be so constructed or equipped that the exhaust gases from the engine are discharged neither downward nor to the left side of the vehicle and shall be so fitted as to allow the gases to escape to the right side or rear of the vehicle:

Provided that in the case of tankers carrying explosives and inflammable goods, the fitment of exhaust pipe shall be according to the specification of the Inspector of Explosives:

⁶³[Provided further that in the vehicles where the exhaust gases are discharged to the right of the vehicle, slight downward angle shall be permitted,

provided the exhaust gases do not kick up any dust when the vehicle is stationary and engine running and in any case the angle of the pipe to the horizontal should not be more than 30 degrees:

Provided also that where the exhaust gases are discharged to the left of the vehicle the inclination of exhaust pipe should not cross 30 degrees in downward and 30 degrees in left direction against the vertical plane which includes the vehicle centre line, provided the exhaust gases do not take up any dust when the vehicle is stationary and engine running:

⁶⁴[Provided further that in the case of agricultural tractors, vertical or horizontal] exhaust pipe may be provided and outlet of this pipe should be so directed that the driver of the tractor is not exposed to exhaust gases by locating the outlet over or to the side of head- level of the driver as per Indian Standards ^{64a}[IS: 12239 (Part 1)—1996]:]

⁶⁵[Provided also that in the case of construction equipment vehicle

⁶³. Substituted by G.S.R. 338(E), dated 26-3-1993 (w.e.f. 26-3-1993)

⁶⁴. Substituted by G.S.R. 111(E), dated 10-2-2004 (w.e.f. 10-8-2004).

^{64a} Substituted by G.S.R.1461(E), dated 27-11-2017 (w.e.f. 27-11-2017).

⁶⁵. Inserted by G.S.R. 642(E), dated 28-7-2000 (w.e.f. 28-7-2000).

^{65a}[and combine harvester] vertical exhaust pipe may be fitted and outlet of this pipe shall be so directed that the driver of the vehicle is not exposed to exhaust gases.]

113. Location of exhaust pipes.—On and from the date of commencement of this sub-rule, ⁶⁶[no exhaust pipe of a motor vehicle including construction equipment vehicle] ^{65a}[and combine harvester] shall be located within a distance of 35 millimeters from the fuel line connecting to the fuel tank and engine.

114. Exhaust pipes of public service vehicles.—The exhaust pipe of every public service vehicle shall be so fitted or shielded that no inflammable material is thrown upon it from any other part of the vehicle and that it is not likely to cause a fire through proximity to any inflammable material on the vehicle.

Emission of smoke, vapour, etc., from motor vehicles

115. Emission of smoke, vapour, etc. from motor vehicles.—⁶³[(1) Every motor vehicle other than motor cycles of engine capacity not exceeding 70 cc, manufactured prior to the first day of March 1990, shall be maintained in such condition and shall be so driven so as to comply with the standards prescribed in these rules.]

⁶⁷[(2) On and after 1st October, 2004, every motor vehicle operating on—
(i) Petrol/CNG/LPG shall comply with the idling emission standards for Carbonmonoxide (CO) and Hydrocarbon (HC) given in the Table below:—

^{65a} Inserted by G.S.R. 212(E), dated 20-3-2015 (w.e.f. 1-4-2015).

⁶⁶. Substituted by G.S.R. 116(E), dated 27-2-2002, for "no exhaust pipe" (w.e.f. 27-8-2002).

⁶⁷. Sub-R. (2) substituted by G.S.R. 111(E), dated 10-2-2004 (w.e.f. 10-8-2004) and as corrected by vide G.S.R. 176(E), dated 5-3-2004.

⁶⁸[TABLE

Petrol/CNG/LPG Driven Vehicles

SI. No.	Vehicle Type	Co %	*HC(n-hexane equivalent) ppm
1.	Two Wheelers (2/4 - Stroke) (Vehicles manufactured on and before 31 st March, 2000)	4.5	9,000
2.	Two Wheelers (2-stroke) (Vehicles manufactured after 31st March, 2000 and 31st March, 2010)	3.5	6,000
3.	Two Wheelers (4-stroke) (Vehicles manufactured between 31st March, 2000 and 31st March 2010)	3.5	4,500
4.	Two Wheelers (2-Stroke) (Vehicles manufactured after 31st March, 2010)	3.0	4,000
5.	Two Wheelers (4-Stroke) (Vehicles manufactured after 31st March, 2010)	3.0	3,000
6.	Three Wheelers (2/4 – Stroke) (Vehicles manufactured on and before 31st March, 2000)	4.5	9,000
7.	Three Wheelers (2 – Stroke) (Vehicles manufactured after 31st March, 2000)	3.5	6,000
8.	Three Wheelers (4 – Stroke) (Vehicles manufactured after 31st March, 2000)	3.5	4,500
9.	Four Wheelers manufactured as per pre-Bharat Stage II emission norms	3.0	1,500
10.	Four Wheelers manufactured as per Bharat Stage-II or Bharat Stage-III Emission norms	0.5	750]

⁶⁹[Provided that every motor vehicle operating on Petrol/ Compressed Natural Gas/Liquefied Petroleum Gas, manufactured as per ^{69a}[Bharat Stage-IV or Bharat Stage-VI] norms shall comply with the idling and high idling applicable emission standards for Carbon Monoxide (CO), Hydro Carbon (HC) and Lambda given in the following Table, namely:-

⁶⁸. Substituted by G.S.R. 277(E), dated 11-4-2014 (w.e.f. 1-10-2014).

⁶⁹. Inserted by G.S.R. 103(E), dated 23-2-2012 (w.e.f. 23-2-2013).

^{69a}. Substituted by G.S.R. 889(E), dated 16-09-2016 for "Bharat Stage-IV" (w.e.f. 16-09-2016).

⁷⁰[TABLE A

(Petrol/Compressed Natural Gas/Liquefied Petroleum Gas Driven Vehicles Manufactured as Per [Bharat Stage -IV or Bharat Stage -VI] Norms)

Sl. No.	Type of Vehicle	Idle emission limits		High Idle emission limits (RPM-2500±200)	
		CO %	HC (n hexane equivalent),ppm	CO%	Lambda _
(1)	(2)	(3)	(4)	(5)	(6)
1.	Compressed Natural Gas/Liquefied Petroleum Gas driven four wheelers manufactured as per Bharat Stage IV or Bharat Stage VI norms.	0.3	200	--	1 ± 0.03 or as declared by the manufacturer.";]
2.	Petrol driven four wheelers manufactured as per Bharat Stage IV or Bharat Stage VI norms.	0.3	200	0.2	
3.	Compressed Natural Gas/Liquefied Petroleum Gas driven two/ three wheelers manufactured as per Bharat Stage VI norms.	0.5	500	--	
4.	Petrol driven two/ three wheelers manufactured as per Bharat Stage VI norms.	0.5	500	0.3	

⁷⁰ substituted by G.S.R. 881(E) dated 26-11-2019, (w.e.f 26-11-2019)

Note.—The test shall be carried out using the instrument type approved as per rule 116(3) of the Central Motor Vehicles Rules, 1989 (CMVR) with the vehicle engine warmed up after a run of minimum 15 minutes on a variable course under normal traffic condition. During the test the vehicle engine shall be running at idling speed and the sampling probe shall be inserted into the vehicle exhaust system to a depth not less than 300mm. In case CO and/or HC emission values recorded during the test are not within the limits, the testing shall be discontinued and the vehicle owner shall be advised to resubmit the vehicle after repair/service.

*The idling emission standards for vehicles when operating on Compressed Natural Gas (CNG), shall contain Non-Methane Hydrocarbon (NMHC) in place of Hydrocarbon (HC) and shall be estimated by the following formula: **NMHC=0.3xHC**

Where HC= Total Hydrocarbon measured as n-hexane equivalent. Similarly idling emission standards for vehicles when operating on Liquefied

Petroleum Gas (LPG) shall contain Reactive Hydrocarbon (RHC) in place of Hydrocarbon (HC) and shall be estimated by the following formula:

$$\mathbf{RHC=0.5 \times HC}$$

Where HC= Total Hydrocarbon measured as n-hexane equivalent:

Provided that in case of Petrol vehicles fitted with three-way closed loop catalytic converters operating in a specific city or area, the Government of the respective State or Union Territory Administration, as the case may be, may, by notification in the Official Gazette, specify the introduction of measurement of LAMBDA (dimensionless value representing burning efficiency of an engine in terms of the air/fuel ratio in the exhaust gases) and tighter emission norms for in-use vehicles with such periodicity as may be warranted, after ensuring that gas analyzers capable of measuring the values, duly approved by the testing agencies, are available in such city or area, as the case may be:

Provided further that testing procedures are prescribed in TAP documents Nos. 115 and 116 as amended from time to time:

Provided also that the compliance to the limits prescribed in the above proviso shall be included in the certificate issued by the vehicle manufacturer in Form 22 or Form 22-A, as applicable for the vehicle manufactured on or after 1st October, 2004:

^{70a}[Provided that in the case of CNG/LPG motor vehicles operating on Bi-fuel mode, the test shall be conducted only on CNG/LPG mode.]

^{70b}[Provided also that the test as specified in the Table-A shall not be carried out if the On Board Diagnostics (OBD) Malfunction Indication Lamp (MIL) of Bharat Stage IV and Bharat Stage VI vehicle (as applicable) is noticed to be in switched on condition after starting of engine, and in such cases, the vehicle shall be re-submitted for the above test after repair or servicing:

Provided also that the testing procedures for vehicles manufactured as per Bharat Stage VI emission norms shall be as laid down in AIS 137, as amended from time to time:

^{70a}. Inserted by G.S.R. 84(E), dated 9-2-2009 (w.e.f. 9-2-2009).

^{70b} substituted by G.S.R. 881(E) dated 26-11-2019, (w.e.f 26-11-2019)

Provided also that in cases of Compressed Natural Gas and Liquefied Petroleum Gas vehicles as specified at Sl. Nos. 1 and 3 of the Table A, the Lambda requirement shall be applicable to only Bharat Stage VI Compressed Natural Gas or Liquefied Petroleum Gas vehicles of categories M1 (with GVW not exceeding 7.5 tonnes), M2, N1, Quadricycle and two or three wheelers.]

(ii) Smoke density for all diesel-driven vehicles shall be as follows:—

**⁷¹[TABLE
DIESEL VEHICLES**

Sl.No.	Method of Test	Maximum Smoke Density	
		Light absorption coefficient (1/meter)	Hartidge unit
(1)	(2)	(3)	(4)
1.	Free acceleration test for turbo charged engine and naturally aspirated engine for vehicle manufactured as per pre Bharat Stage IV norms	2.45	65
2.	Free acceleration test for turbo charged engine and naturally aspirated engine for vehicle manufactured as per Bharat Stage IV norms	1.62	50
3.	Free acceleration test for turbo charged engine and naturally aspirated engine for 4 wheelers manufactured as per Bharat Stage VI norms	0.7	26
4.	Free acceleration test for turbo charged engine and naturally aspirated engine for two / three wheelers manufactured as per Bharat Stage VI norms	1.5	48]

⁷²[The free acceleration test shall be carried out using meter type-approved under sub-rule (3) of rule 116 as given under:-

(a) three times flushing by free acceleration to be undertaken with or without the sampling probe in the vehicle exhaust, and average maximum rpm of the three flushing to be recorded;

(b) thereafter, with sample probe inserted in vehicle exhaust during each free acceleration, maximum no-load rpm reached shall be within the bandwidth of ± 500 rpm of the average value in respect of 3-wheeled vehicles and ± 300 rpm of the average value for all other categories of vehicles;

(c) the free acceleration test, mentioned in (b) above, shall be repeated minimum three times;

⁷¹. substituted by G.S.R. 881(E) dated 26-11-2019, (w.e.f 26-11-2019

⁷². Substituted by G.S.R. 498(E), dated 16-6-2015 (w.e.f. 16-6-2015).

(d) the smoke density to be recorded shall be arithmetic mean of these three readings;

(e) In case the smoke density recorded is not within the limits, then, the test may be repeated with engine oil temperature measured by a probe in the oil level dipstick tube to be at least 60°C:]

Provided that the above test shall not be carried out if the On Board Diagnostic (OBD) Malfunction Indicator Lamp (MIL) of ^{72a}[BS-IV or BS-VI vehicle (as applicable) is noticed to be in switched on condition after starting of engine, and]; *in such cases, the vehicle shall be re-submitted for the above test after repair or servicing:*

Provided further that only for Type Approval purposes, all new models type-approved on or before the commencement of the Central Motor Vehicles (Tenth Amendment) Rules, 2015 and complying with the requirements of free acceleration smoke as provided in the Central Motor Vehicles (Amendment) Rules, 2012, published vide notification number G.S.R. 103(E), dated 23rd February 2012, need not be re type-approved for compliance to this sub-rule.]]

^{72c}[Provided also that for Type Approval purposes, all models type approved as per the Central Motor Vehicles (11th Amendment) Rules, 2016, published in the Official Gazette vide notification number G.S.R. 889 (E), dated the 16th September, 2016 and complying with requirements of free acceleration smoke as provided in this sub-rule, need not be re type approved.]

^{72b}[(iii) (a) The emission results obtained during testing as per clause (i) or clause (ii) above, shall be electronically uploaded through online process to the State Register of Motor Vehicles or the Central Register of Motor Vehicles, as the case may be, as laid down in Document No. MoRTH/CMVR/TAP-115/116 as amended from time to time.

(b) The schedule of the implementation of up linking of the emission results data under sub-clause (a) shall be as per the following table, namely; -

^{72a}. substituted by G.S.R. 881(E) dated 26-11-2019, for "BS-IV vehicle is switched on;" (w.e.f 26-11-2019).

^{72b} Inserted by G.S.R 527(E), dated 06-06-2018, (w.e.f 06-06-2018)

^{72c} Inserted by G.S.R. 881(E) dated 26-11-2019, (w.e.f 26-11-2019).

Sl. No.	List of States	Date of Implementation
(1)	(2)	(3)
1.	National Capital Territory of Delhi	1 st June, 2018
2.	Haryana, Rajasthan, Uttar Pradesh	1 st October, 2018
3.	All other states except those mentioned in sl.no. (1) and (2)	1 st April, 2019.".]

(3) On and from the [date]⁷² of commencement of this sub-rule, all petrol-driven vehicles shall be so manufactured that they comply with the mass emission standards as specified at Annexure I. The breakdown of the operating cycle used for the test shall be as specified at Annexure II, and the reference fuel for all such tests shall be specified in Annexure III to these rules.

(4) On and from the [date]⁷² of commencement of this sub-rule, all diesel-driven Vehicles shall be so manufactured that they comply with the standards based on exhaust gas opacity as specified at Annexure IV to these rules.

(5) On and from the [date]⁷² of commencement of this sub-rule, all petrol-driven vehicles shall be so manufactured that they comply with the following levels of emissions⁷³[when tested as per test cycle specified in Annexure V]:—

Mass of Carbon Monoxide (CO)	Mass of Hydrocarbons (HC)	Mass of Nitrogen Oxides (NO)
Maximum grams per KWH	Maximum grams per KWH	Maximum grams per KWH
14	3.5	18

⁷⁴[Provided the standards for exhaust gas emissions applicable to agricultural tractors shall be notified separately.]

(6) Each motor vehicle manufactured on and after the dates specified in sub-rule (2), (3), (4) or (5), shall be certified by the manufacturers to be conforming to the standards specified in the said sub-sections, and further certify that the components liable to effect the emission of gaseous pollutants are so designed, constructed and assembled as to enable the vehicle, in normal use, despite the vibration to which it may be subjected, to comply with the provisions of the said sub-rule.

⁷⁴[(7) After the expiry of a period of one year from the date on which the motor vehicle was first registered, every such vehicle shall carry a valid effective, be valid throughout India.]

⁷³. Substituted by G.S.R. 338(E), dated 26-3-1993 (w.e.f. 26-3-1993).

⁷⁴. Inserted by G.S.R 338(E), dated 26-3-1993 (w.e.f. 26-3-1993).

"Pollution under control" certificate issued by an agency authorized for this purpose by the State Government. The validity of the certificate shall be for ⁷⁵[six months] and the certificate shall always be carried in the vehicle and produced on demand by the officers referred to in sub-rule (1) of rule 116.

^{75a}[Provided that the validity of the certificate shall be twelve months for the vehicles manufactured as per ^{75b}[**Bharat Stage-IV or Bharat State-VI norms.**]]

(8) The certificate issued under sub-rule (7) shall, while it remains

⁷⁶[(9) Mass emission standard for diesel vehicles

Type approval tests

Vehicle Category	HC*(g/KWH)	CO*(g/KWH)	NOx g/KWH	Smoke
Medium and Heavy over 3.5 Ton/GVW	2.4	11.2	14.4	***
Light diesel up to 3.5 Ton/GVW	2.4	11.2	14.4	***
Reference mass R(Kg)	CO** g/KM		HC+NOx g/KM	***
R<1020	5.0		2.0	
1020<R<1250	5.7		2.2	
1250<R< 1470	6.4		2.5	
1470<R< 1700	7.0		2.7	
1700<R<1930	7.7		2.9	
1930<R<2150	8.2		3.5	
R<2150	9.0		4.0	

Note:

*The test cycle is as per 13 mode cycle on dynamometer.

** The test should be as per Indian driving cycle with cold start.

***The emissions of visible pollutants (smoke) shall not exceed the limit value to smoke density. When expressed as light absorption coefficient given below for various nominal flows when tested as constant speeds over full load. (As indicated at Annexure I).

⁷⁵. Substituted by G.S.R. 111(E), dated 10-2-2004, for "six months or any lesser period as may be specified by the State Government from time to time" (w.e.f. 10-8-2004).

^{75a}. Substituted by G.S.R. 103(E), dated 23-2-2012 (w.e.f. 23-2-2012).

^{75b} Substituted by G.S.R. 889(E), dated 16-09-2016 for "Bharat Stage-IV" (w.e.f. 16-09-2016)

⁷⁶. Substituted by G.S.R. 163(E), dated 29-3-1996 (w.e.f. 1-4-1996). Earlier sub-R (9) was added by G.S.R. 609(E), dated 15-9-1993 (w.e.f. 15-9-1993).

COP STANDARDS

- * 10% relaxation in the standards for HC, CO and NOx would be given.
- ** 10% relaxation in the standards for CO and combined HC+NOx would be given.

⁷⁷[Mass emission standard for petrol-driven vehicles—Effective from 1st April, 1998

(i) Passenger Cars—

Type approval tests

Cubic Capacity (cm ³)	Carbon Monoxide (gm/km)		HC+NOx (gm/km)	
	Passenger cars fitted with catalytic converter	Passenger cars not fitted with catalytic converter	Passenger cars fitted with catalytic converter	Passenger cars not fitted with catalytic converter
≤ 1400	4.34	8.68	1.50	3.00
≥ 1400 < 2000	5.60	11.20	1.92	3.84
> 2000	6.20	12.40	2.18	4.36

Notes.- 1. The tests will be as per Indian driving cycle with warm start. However, with effect from 1st April, 1998, the test will be as per Indian driving cycle with cold start for catalytic converter fitted vehicles as:-

Soak Temperature	20°-30°C
Soak Period	6.30 hrs
Preparatory running before sampling	4 cycles
Number of test cycles	6
Break down of cycles	Indian driving cycle as per Annexure II

2. For passenger cars not fitted with catalytic converters, the test will continue to be with warm start as per existing procedure, till 1-4-2000.
3. There should be no crankcase emission.
4. Evaporative emission should not be more than 2.0g/test.
5. COP standards: 20% relaxation in the standards for Carbon Monoxide and combined HC + NOx would be given.

⁷⁷. Substituted by G.S.R. 46(E), dated 21-1-1998 (w.e.f. 1-4-1998).

6. For vehicles fitted with catalytic converter a deterioration factor of 1.2 on Type- Approval Limits will be applicable for durability.]

1. The test will be as per Indian driving cycle with warm start. However, with effect from 1st April, 1998, the test will be as per Indian driving cycle with cold start.

2. COP standards: 20% relaxation in the standards for Carbon Monoxide and combined HC + NOx would be given.

(ii) Three-Wheelers (for all categories)-

CO	gms/km	6.75
HC + NOx	gms/ km	5.40

Note : (1)The test will be as per Indian driving cycle with warm start. However, with effect from 1st April, 1998, the test will be as per Indian driving cycle with cold start.

(2) COP standards: 20% relaxation in the standards for Carbon Monoxide and combined HC+NOx would be given..

(iii) Two-Wheelers (for all categories)

CO	gms/Km	4.50
HC + NOx	gms/ Km	3.60

Note : (1)The test will be as per Indian driving cycle with warm start. However, with effect from 1st April, 1998, the test will be as per Indian driving cycle with cold start.

(2) COP standards: 20% relaxation in the standards for Carbon Monoxide and combined HC+NOx would be given.

Annexure I

Nominal Flow G(1/2)	Light Absorption (K(1/m))	Nominal Flow G(1/2)	Light Absorption (K(1/m))
42	2.26	120	1.37
45	2.19	125	1.345
50	2.08	130	1.32
55	1.985	135	1.30
60	1.90	140	1.27
65	1.84	145	1.25
70	1.775	150	1.205
75	1.72	160	1.19
80	1.665	165	1.17

85	1.62	170	1.155
90	1.575	175	1.14
95	1.535	180	1.125
100	1.495	185	1.11
105	1.465	190	1.095
110	1.425	195	1.08
115	1.395	200	1.065]

⁷⁸[⁷⁹[(10) Mass Emission Standards for vehicles manufactured on and after 1st June, 1999 in case of National Capital Region of Delhi and in other cases on and after 1st April, 2000]

A. For Petrol-Driven Vehicles

(1) Passenger Cars	CO(g /kin)	HC+NOx(g/km)
Type Approval	2.72	0.97
Conformity of Production	3.16	1.13

Notes.—The test shall be as per the modified Indian driving cycle, with cold start, as specified in Annexure IV-B, on Chassis Dynamometer. There should be no crankcase emission.

Evaporative emission should not be more than 2.0g/test.

For vehicles fitted with catalytic converter, a deterioration factor of 1.2 on Type Approval Limits will be applicable for durability.

Commercial fuel shall be as notified by the Ministry of Environment and Forests Vide Notification No. G.S.R. 176(E), dated the 2nd April, 1996.

Reference test fuel shall be as specified in Annexure IV-C.

2-Wheelers and 3-Wheelers	CO(g/km)		HC+NOx(g/km)	
	2-Wheeler	3-Wheeler	2-Wheeler	3-Wheeler
Type Approval	2.0	4.0	2.0	2.0
Conformity of Production	2.4	4.8	2.4	2.4

Notes.—The test shall be as per the Indian driving cycle, with cold start, on Chassis Dynamometer as specified in Annexure IV-B to the principal rules.

⁷⁸. Sub-R (10) inserted by G.S.R. 493(E), dated 28-8-1997 (w.e.f. 1-4-2000).

⁷⁹. Substituted by G.S.R. 399(E), dated 1-6-1999, for "10. Mass Emission Standards for vehicles manufactured on and after 1st April, 2000" (w.e.f. 1-6-1999).

Commercial fuel shall be as notified by the Ministry of Environment and Forests vide Notification No. G.S.R. 176(E), dated the 2nd April, 1996.

Reference test fuel shall be as specified in Annexure IV-C.

⁸⁰[For 2-wheelers and 3-wheelers fitted with catalytic converter, a deterioration factor of 1.2 on Type Approval Limits, will be applicable for durability:

Provided that the vehicle manufacturers may opt for an ageing test of 30,000 kms for evaluating deterioration factor, as per procedure that may be laid down by the Central Government.]

[⁸⁰. Inserted by G.S.R. 400(E), dated 31-5-2002 (w.e.f. 31-5-2002).]

B. For Diesel Vehicles (Including Two and Three-Wheelers)

I. Vehicles with GVW exceeding 3.5 ton

Pollutants	Limits for	
	Type Approval	Conformity of Production
CO(g/kWh)	4.5	4.9
HC(g/kWh)	1.1	1.23
NOx g/kWh	8.0	9.0
PM(g/k Wh) for engines with power exceeding 85kW	0.36	0.4
PM(g/k Wh) for engines with power exceeding 85kW	0.36	0.4

II. Vehicles with GVW equal to or less than 3.5 ton

Pollutants	Limits for	
	Type Approval	Conformity of Production
CO(g/kWh)	4.5	4.9
HC(g/kWh)	1.1	1.23
NOx g/kWh	8.0	9.0
PM(g/k Wh) for engines with power exceeding 85kW	0.36	0.4
PM(g/k Wh) for engines with power exceeding 85kW	0.61	0.68

Or Chassis Dynamometer Test

Reference Mass (kg)	Limits for Type Approval gm/km			Limits for conformity of Production gm/km		
	CO	HC+NOx	PM	CO	HC+NOx	PM
R≤1250	2.72	0.97	0.14	3.16	1.13	0.18
1250<R≤1700	5.17	1.40	0.19	6.0	1.60	0.22
1700<R	6.90	1.70	0.25	8.0	2.0	0.29

Notes.—The test for vehicles with GVW equal to or less than 3.5 ton shall be as per the 13 mode cycle on engine dynamometer specified in Annexure IV-A to the principal rules.

The test shall be as per the Indian driving cycle, for 2-Wheelers and 3-Wheelers and modified Indian driving cycle for 4-Wheelers with cold start, as specified in Annexure IV- B on Chassis Dynamometer.

For vehicles fitted with catalytic converters a deterioration factor 1.1 of CO; 1.0 for HC+NOx and 1.2 for PM on type approval limits will be applicable for durability.

The emission of visible pollutants (smoke) shall not exceed the limit value to smoke density, when expressed as light absorption co-efficient for various nominal flows as in Annexure I to rule 115(9), (Notification No. G.S.R. 163(E), dated 29th March, 1996), when tested at constant speeds over full load. These smoke limits are without correction factor and engines are to be tested with conditioned air supplied to the engine to maintain atmospheric factor of 0.98 to 1.02.

Commercial fuel shall be as notified by the Ministry of Environment and Forests vide Notification No. G.S.R. 176(E), dated the 2nd April, 1996.

Reference test fuel shall be as specified in Annexure IV-D.]

⁸¹For 2-wheelers and 3-wheelers fitted with catalytic converter, the deterioration factor shall be as follows:

CO =1.1	HC + NOx =1.0	PM =1.2:
----------------	----------------------	-----------------

Provided that the vehicle manufacturers may opt for an ageing test of 30,000 kms for evaluating deterioration factor, as per procedure that may be laid down by the Central Government:

⁸¹. Inserted by G.S.R. 400(E), dated 31-5-2002 (w.e.f. 31-5-2002).

Provided further that the above provisions shall come into force after six months from the publication of the notification.]

⁸²[(11) Mass Emission Standards (Bharat Stage II):—

(A) Motor Cars with seating capacity of and up to 6 persons (including driver) and Gross Vehicle Mass (GVM) not exceeding 2500 kg.

Vehicles with	Standards (Type Approval=COP)(g/km)		
	CO	(HC+NOx)	PM
Gasoline engine	2.2	0.5	-
Diesel engine	1.0	0.7	0.08

(B) Four-Wheeler Passenger Vehicles with GVW equal to or less than 3500kg and designed to carry more than 6 persons (including driver) or maximum mass of which exceeds 2500 kg.

Class	Ref. Mass(rw) kg	Limit Values for Type Approval (TA) as well as COP				
		Mass of CO(g/km)		Mass of HC+NOx (g/km)		Mass of PM(g/km)
		Gasoline	Diesel	Gasoline	Diesel	Diesel
I	rw<1250	2.2	1.0	0.5	0.7	0.08
II	1250<rw<1700	4.0	1.25	0.6	1.0	0.12
III	1700<rw	5.0	1.5	0.7	1.2	0.17

Note:—

1. The test including driving cycle shall be as per sub-rule (10)with the modifications that:—

- (i) there shall be no relaxation of norms for COP purposes,
- (ii) the tests shall be on Chassis dynamometer,
- (iii) the driving cycle shall be at a maximum speed of 90 kmph, and
- (iv) the reference fuel shall be of a maximum of 0.05% sulphur content.

2. Commercial fuel for meeting above norms shall be upto0.05% mass maximum sulphur content.

⁸². Inserted by G.S.R. 77(E), dated 31-1-2000. Brought into force in the National Capital Region w.e.f. 1-4-2000 vide G.S.R. 77(E), dated 31-1-2000, in Mumbai (including Greater Mumbai) w.e.f. 1-1-2001 and in Calcutta and Chennai w.e.f. 1-7-2001 vide G.S.R. 779(E), dated 29-8-2000.

3. There shall be no crankcase emissions for petrol-driven vehicles.
4. Evaporative emission shall not be more than 2.0g/ test from petrol-driven

5. For the above vehicles when fitted with catalytic converter deterioration factor shall be as follows:—.

Gasoline engines: CO=1.2; (HC+NOx)=1.2;

Diesel engines: CO=1.1; (HC+NOx)=1.0; PM=1.2:

Provided that the vehicle manufacturers may opt for an ageing test of 80,000 kms for evaluating deterioration factor, as per procedure that may be laid down by the Central Government.

6. For diesel engine vehicles, the emission of visible pollutants (smoke) shall not exceed the limit value to smoke density, when expressed as light absorption coefficient for various nominal flows as in Annexure I to rule 115(9) when tested at constant speeds over full load.]

⁸³[(C) Four-Wheeled Vehicles (other than passenger vehicles) with GVW equal to or less than 3500 kg shall conform the following norms:

Engine Dynamometer Test

Limit Values for Type Approval (TA) as well as (COP)			
CO (g/kWh)	HC (g/kwh)	NOx (g/kWh)	PM (g/kWh)
4.0	1.1	7.0	0.15

Or Chassis Dynamometer Test

Class	Ref. Mass (RM) Kg	Mass of CO (g/km)		Mass of HC+NOx (g/km)		Mass of PM (g/km)
	RM	Gasoline	Diesel	Gasoline	Diesel	
I	RM≤1250	2.2	1.0	0.5	0.7	0.08
II	1250<RM≤1700	4.0	1.25	0.6	1.0	0.12
III	1700<RM	5.0	1.5	0.7	1.2	0.17

⁸³. Inserted by G.S.R. 286(E), dated 24.4.2001, published in the Gazette of India, dated 24.4.2001, Ext., pt. II, S.3(i), SI.No.198. In the National Capital Territory of Delhi in respect of Vehicles manufactured on or after six months from the date of publication in the Official Gazette, i.e., 24-4-2001 and in respect of the "Four-Wheeled Transport Vehicles" which are plying on Inter-State Permits or on National Permits or on All India Tourist Permits within the jurisdiction of National Capital Territory of Delhi, and in respect of any Vehicles in other areas of country, from such date as the Central Government may, by notification appoint in the Official Gazette, and different dates may be appointed for different areas.

Note:

1. (a) There shall be no relaxation for COP purposes.
(b) The tests shall be carried out on the engine dynamometer operation as specified in Annexure IV-A of the rules. The tests on Chassis dynamometer shall be as per the driving cycle given in Note of clause (B) of sub-rule (11) of rule 115.
(c) The reference fuel shall be of a maximum of 0.05% mass sulphur content.
2. Commercial fuel for meeting above norms shall be up to 0.05% maximum mass sulphur content.
3. For diesel engined vehicles the emission of visible pollutants (smoke) shall not exceed the limit value to smoke density, when expressed as light absorption coefficient for various nominal flows as in Annexure I to sub-rule (9) of rule 115 when tested at constant speeds over full load. These smoke limits are without correction factor and engines are to be tested with conditioned air supplied to the engine to maintain atmospheric factor of 0.98 to 1.02.
4. For diesel engined vehicles, the free acceleration smoke for naturally aspirated and turbocharged engines shall not exceed the smoke density limit value as in clause (c) of sub-rule (2) of rule 115.
5. There shall be no crankcase emissions for petrol engined vehicles.
6. Evaporative emission shall not be more than 2.0g/ test from petrol engined vehicles.

(D) Vehicles with GVW exceeding 3500kg shall conform the following norms:

Limit Values for Type Approval (TA) as well as (COP)			
CO (g/kWh)	HC (g/kWh)	NOx (g/k Wh)	PM (g/kWh)
4.0	1.1	7.0	0.15

Notes:

1. (a) There shall be no relaxation for COP purposes.
(b) The tests shall be carried out on the engine dynamometer operation as specified in Annexure IV-A of the rules.

(c) The reference fuel shall be of a maximum of 0.05% mass sulphur content.

2. Commercial fuel for meeting above norms shall be up to 0.05% mass maximum sulphur content.

3. For diesel engined vehicles, the emission of visible pollutants (smoke) shall not exceed the limit value to smoke density, when expressed as light absorption coefficient for various nominal flow as in Annexure I to sub-rule (9) of rule 115 when tested at constant speeds over full load. These smoke limits are without correction factor and engines are to be tested with conditioned air supplied to the engine to maintain atmospheric factor of 0.98 to 1.02.

4. For diesel engined vehicles, the free acceleration smoke for naturally aspirated and turbo-charged engines shall not exceed the smoke density limit value as in clause (c) of sub-rule (2) of rule 115.]

⁸⁴[(12) Mass emission standards (Bharat Stage II) for two-wheeler and three-wheeler manufactured on and from 1st April, 2005 shall be as follows, namely:—

TABLE

Vehicle Category	Pollutants	TA = COP Norms g/km	TA=COP D.F.(*)
(1)	(2)	(3)	(4)
Two-wheeler (Petrol)	CO	1.50	1.2
	HC+NOx	1.50	1.2
Three-wheeler (Petrol)	CO	2.25	1.2
	HC+NOx	2.00	1.2
Two-wheeler and three-wheeler (Diesel)	CO	1.00	1.1
	HC+NOx	0.85	1.0
	PM	0.10	1.2

⁸⁴. Inserted by G.S.R. 720(E), dated 10-9-2003

* Deterioration Factor, see para (c) below.

(a) The test shall be as per the Indian Driving Cycle with cold start on chassis dynamometer as specified in the Table given below by testing agencies, namely:

TABLE

Test Cell Conditions	Petrol two-wheeler and three-wheeler	Diesel two-wheeler and three-wheeler
(1)	(2)	(3)
Soak Temperature	20-30° C	20-30° C
Soak period	6-30 hours	6-30 hours
Preparatory running before sampling	Idling of 40 seconds and 4 cycles	Idling of 40 seconds
No. of test cycles	6	6
Breakdown of cycles	Indian Driving Cycle as per Annexure II to principal rule	Indian Driving Cycle as per Annexure II to principal rule

(b) Reference fuel for testing shall be in line with that in the ECE;

(c) (i) For all types of two-wheeler and three-wheeler petrol vehicles, a deterioration factor as specified in column (4) in the Table in this sub-rule shall be applicable for durability:

Provided that the vehicle manufacturer may opt for an ageing test of 30,000 kms for evaluating deterioration factor, as per procedure that may be laid down by the Central Government from time to time;

(ii) For all types of two-wheeler and three-wheeler diesel vehicles, a deterioration factor as specified in column (4) in the Table in this sub-rule shall be applicable for durability:

Provided that the vehicle manufacturer may opt for an ageing test of 30,000 kms for evaluating deterioration factor, as per procedure that may be laid down by the Central Government from time to time;

(d) For diesel engine vehicles, the emission of visible pollutants (smoke) shall not exceed the limit value to smoke density, when expressed as light absorption co-efficient for various nominal flow as indicated in Annexure I to sub-rule (9) of rule 115 when tested at constant speed over full load;

(e) COP frequency and samples:—

Sl. No	Type of Vehicle	Annual Production		COP Frequency
		Exceeding	Up to	
(1)	(2)	(3)	(4)	(5)
1.	Two-wheeler and three-wheeler	250 per 6 months	10000 per year	Once every year

2.	Two-wheeler	10000 per year	150000 per 6 months	Once every 6 months
3.	Two-wheeler	150000 per 6 months	-	Once every 3 months
4.	Three-wheeler	1000 per year	75000 per 6 months	Once every 6 months
5.	Three-wheeler	75000 per 6 months	-	Once every 3 months

For production volumes of less than 250 per 6 months the method as prescribed in the proviso to rule 126-A shall apply;

(f) Testing procedures shall be in accordance with the reference document MOST/CMVR/TAP-115/116 as amended from time to time by the Government of India in the Ministry of Road Transport and Highways:]

⁸⁵[Provided that Mass Emission Standards (Bharat Stage II) for diesel driven two-wheeler and three-wheeler shall come into force on the dates specified against each of the States in Table below:—

TABLE

SI. No	State	Date
(1)	(2)	(3)
1.	Rajasthan	1 st June, 2005
2.	Uttar Pradesh, Mathura, Kannauj, Muzaffamagar, Aligarh, Farukkabad, Saharanpur, Badaun, Barreily, Moradabad, Hathras, Rampur, Bijnor, Agra, Pilibhit, J.P. Nagar, Mainpuri, Lalitpur, Hardoi, Firozabad, Jhansi, Shahjahanpur, Etawah, Jalon, Lakhimpur Kheri, Etah, Mahoba and Sitapur	1 st June, 2005
3.	Uttaranchal	1 st July, 2005
4.	Madhya Pradesh	1 st September, 2005
5.	Himachal Pradesh	1 st October, 2005
6.	Jammu and Kashmir	1 st October, 2005
7.	Punjab	1 st October, 2005]

^{86.}[(13) Without prejudice to the provisions contained in clause (a) of sub-rule (2) of rule 1 of the Central Motor Vehicles (3rd Amendment) Rules, 2000 and clause (a) of sub-rule (ii) of rule 1 of the Central Motor Vehicles (2nd Amendment) Rules, 2001, notifications number S.O. 779(E), dated 29th August, 2000 and number S.O. 90(E), dated 27th January, 2003, issued under clause (b) of sub-rule (2) of rule 1 of the Central Motor Vehicles (3rd Amendment) Rules, 2000, notifications number S.O. 731(E), dated 21st July, 2001, number S.O. 801(E), dated 26th July, 2002 and number S.O. 940(E), dated 4th September, 2002, issued under clause (b) of sub-rule (ii) of rule 1 of the Central Motor Vehicles (2nd Amendment) Rules, 2001 and notification number S.O. 91(E), dated 27th January, 2003, issued under clause (b) of sub-rule (2) of rule 1 of the Central Motor Vehicles (3rd Amendment) Rules, 2000 and clause (b) of sub-rule (ii) of rule 1 of the Central Motor Vehicles (2nd Amendment) Rules, 2001, the provisions of sub-rule (11) shall, in respect of four-wheeled vehicles manufactured on and from the 1st April, 2005, come into force in all States and Union Territories on the 1st day of April, 2005:

⁸⁷[Provided that provisions of sub-rule (11) shall, in respect of four-wheeled vehicles to be registered in Sholapur and Lucknow, come into force in Sholapur and Lucknow from the 1st June, 2004:

Provided further that the above said provision shall not apply in respect of four-wheeled transport vehicles plying from Sholapur to other parts of the State of Maharashtra or from Lucknow to the other parts of the State of Uttar Pradesh; or on inter-State or National Permit or on the All India Tourist Permit, within the territorial jurisdiction of the said cities:]

⁸⁸[Provided that Mass Emission Standards (Bharat Stage II) for diesel driven four wheeled vehicles shall come into force on the dates specified against each of the States in Table below:-

^{85.} Inserted by G.S.R. 200(E), dated 1-4-2005 (w.e.f. 1-4-2005).

^{86.} Inserted by G.S.R. 927(E), dated 5-12-2003 (w.e.f. 5-12-2003).

^{87.} Inserted by G.S.R. 200(E), dated 18-3-2004 (w.e.f. 1-6-2004).

^{88.} Inserted by G.S.R. 200(E), dated 1-4-2005 (w.e.f. 1-4-2005).

Table

SI. No	State	Date
(1)	(2)	(3)
1.	Rajasthan	1 st June, 2005
2.	Uttar Pradesh, Mathura, Kannauj, Muzaffamagar, Aligarh, Farukkabad, Saharanpur, Badaun, Barreily, Moradabad, Hathras, Rampur, Bijnor, Agra, Pilibhit, J.P. Nagar, Mainpuri, Lalitpur, Hardoi, Firozabad, Jhansi, Shahjahanpur, Etawah, Jalon, Lakhimpur Kheri, Etah, Mahoba and Sitapur	1 st June, 2005
3.	Uttaranchal	1 st July, 2005
4.	Madhya Pradesh	1 st September, 2005
5.	Himachal Pradesh	1 st October, 2005
6.	Jammu and Kashmir	1 st October, 2005
7.	Punjab	1 st October, 2005]

⁸⁹[(14) Mass Emission Standards (Bharat Stage III).-The Mass Emission Standards for Bharat Stage III shall be as under:

(A) Motor cars with seating capacity of and up to six persons (including driver) and Gross Vehicle Weight not exceeding 2500 kg.

Vehicles with	Limit Values for Type Approval (TA) as well as COP (g/km)				
	CO	HC	NOx	HC+NOx	PM
Gasoline	2.30	0.20	0.15	--	--
Diesel engine	0.64	--	0.50	0.56	0.05

⁸⁹. Inserted by G.S.R. 686(E), dated 20-10-2004. Brought into force—(a) in the National Capital Region and the cities of Mumbai, Kolkata, Chennai, Bangalore, Hyderabad including Secundrabad, Ahmedabad, Pune, Surat, Kanpur and Agra in respect of four-wheeled vehicles manufactured on and from 1st April 2005, except in respect of four-wheeled transport vehicles plying on Inter-State Permits or National Permits or All India Tourist Permits within the jurisdiction of these cities; and (b) in other areas of the country, from such date as may be notified by the Central Government. Here "National Capital Region" shall have the same meaning as assigned to it in clause (/) of section 2 of the National Capital Region Planning Board Act, 1985 (2 of 1985).

(B) Four-Wheeler Passenger Vehicles with Gross Vehicle Weight equal to or less than 3500 kg and designed to carry more than six persons (including driver) or 3000 kg.

and

(C) Four-wheeled Vehicle (other than passenger vehicles) with Gross Vehicle Weight equal to or less than 3500 kg. shall conform to the following norms:

		Limit Values for Type Approval (TA) as well as COP (g/km)									
		CO		HC		NOx		HC+NOx		PM	
Class	Ref.Mass (rw)kg	Gasoline	Diesel	Gasoline	Diesel	Gasoline	Diesel	Gasoline	Diesel	Diesel	Diesel
I	$r_w \leq 1305$	2.30	0.64	0.20	--	0.15	0.50	--	0.56	0.05	
II	$1305 < r_w \leq 1760$	4.17	0.80	0.25	--	0.18	0.65	--	0.72	0.07	
III	$1760 < r_w$	5.22	0.95	0.29	--	0.21	0.78	--	0.86	0.10	

Notes.-

1. The test shall be on Chassis Dynamometer.
2. The test including driving cycle shall be as per sub-rule (10), with the modifications that-
 - (i) the exhaust gas sampling should start at the initiation of the engine start up procedure (refer Annexure IV-E);
 - (ii) the driving cycle shall be at a maximum speed of 90 kmph (refer Annexure IV-E for the detailed cycle).
3. There shall be no relaxation of norms for COP purposes.
4. In case of vehicles operating on CNG or LPG all the provisions prescribed in rules 115-B and 115-C shall be applicable except that the norms to be complied with shall be as per these rules.
5. The reference fuel shall be as specified in Annexure IV-F, Annexure IV-G, Annexure IVH and Annexure IVI for diesel, petrol, LPG and CNG, respectively.
6. There shall be no crankcase emissions for petrol driven vehicles.
7. Evaporative Emission shall not be more than 2.0 g/test from petrol-driven vehicles. The Evaporative Emission test procedure for vehicles with

positive-ignition engines shall be as described in Annexure VI of European Economic Community (EEC) Directive 70/220/EEC last amended by 98/69/EC.

8. The Conformity of Production (COP) testing procedure shall be as described in section.7 of Annexure I of EEC Directive 70/220/EEC (Refer Appendix 1 or Appendix 2 as applicable) last amended by 98/69/EC.

9. The COP frequency and samples:-

(i) The COP period for each vehicle model including its variants shall be once in a year.

(ii) For production volume of less than 250 for six months, the method as prescribed in the provisos to rule 126-A shall apply.

10. The vehicles meeting the above norms shall use commercial fuel as per BIS specification IS:1460-2000 (Amendment No. I-January, 2003) (Fourth Revision) for Diesel and IS:2796-2000 (Amendment No. II-February, 2003) (Third Revision) for Gasoline.

11. For the vehicles described in clauses (A), (B) and (C) of this sub-rule, deterioration factor shall be as given below:

Engine category	Deterioration factors				
	CO	HC	NOx	HC+NOx	PM
Gasoline/Gas Engine	1.2	1.2	1.2	--	--
Diesel Engine	1.1		1.0	1.0	1.2

(i) Alternatively, the vehicle manufacturers may opt for an ageing test of 80,000 kms for evaluating deterioration factor, as described in Annexure VII of European Economic Community Directive 70/220/EEC last amended by 98/69/EC with the following exceptions.

(a) The maximum lap speed at 10th lap will be 72 km/h

(b) The maximum lap speed at 11th lap will be 90 km/h

(ii) The above ageing test should be carried out by the approved test agency.

12. For diesel vehicles, the emission of visible pollutants (smoke) shall not exceed the limit value to smoke density, when expressed as light absorption co-efficient for various normal flows as given in Annexure I of sub-rule (9) when tested at constant speeds over full load. These smoke limits are

without correction factor and engines are to be tested with conditioned air supplied to the engine to maintain atmospheric factor of 0.98 to 1.02.

13 In case of diesel vehicles, the engine power shall be measured on engine dynamometer and the measured power shall not differ from the specified power as given below:

(i) For Type approval: $\pm 5\%$ at maximum power point and $\pm 10\%$ at other measurement points for single cylinder engines. $\pm 2\%$ at maximum power point and $+ 6\%$ and -2% at other measurement points for all other engines.

(ii) Testing procedures shall be in accordance with Chapter 6 of Part IV of the reference document MOST/CMVR/TAP-115/116 as amended from time to time by the Government of India in the Ministry of Shipping, Road Transport and Highways.

14. The vehicles described in clauses (A), (B) and (C) of this sub-rule should comply with rule 115(2).

(D) Diesel vehicles with GVW exceeding 3500 kg. shall conform to the following norms:

Limit Values for Type Approval (TA) as well as (COP)				
Engine Steady State Cycle (ESC) test				Engine Load Response (ELR) test
CO (g/kWh)	HC (g/kWh)	NOx (g/kWh)	PM (g/kWh) ⁽²⁾	Smoke (m ⁻¹) ⁽²⁾
2.1	0.66	5.0	0.10/0.13 ⁽¹⁾	0.8

(1) For engines having swept volume of less than 0.75 litre per cylinder and a rated power speed of more than 3000 rpm.

(2) For diesel engines only.

Notes.—

1. The test shall be on engine dynamometer.
2. There shall be no relaxation of norms for COP purposes.
3. The gaseous and particulate emissions are to be determined on the ESC test as described in EEC document 1999/96/EC.
4. The smoke opacity is to be determined on the ELR test as described in EEC document 1999/96/EC.

5. In case of vehicles operating on CNG or LPG mode all the provisions prescribed in rules 115-B and 115-C shall be respectively applicable, except that limiting value shall be as per clause (D) above.

6. The reference fuel shall be as specified in Annexure IV-F, Annexure 1V-H and Annexure IV-I for diesel, LPG and CNG, respectively.

7. The Conformity of Production (COP) testing procedure shall be as described in section 9 of Annexure I of EEC Directive 88/77/EEC last amended by 1999/96/EC.

8. The COP frequency and samples:—

(i) The COP period for each engine model including its variants shall be once in a year.

(ii) For production volume of less than 250 for six months, the method as prescribed in the provisos to rule 126-A shall apply.

9. For diesel engine vehicles, the emission of visible pollutants (smoke) shall not exceed the limit value of smoke density, as per Annexure I to rule 115(9). These smoke limits are without correction factor and engines are to be tested with conditioned air supplied to the engine to maintain atmospheric factor of 0.98 to 1.02.

10. The vehicles meeting the above norms shall use commercial fuel as per BIS specification IS:1460-2000 (Amendment No. I—January, 2003) (Fourth Revision) for Diesel and IS:2796-2000 (Amendment No. II—February, 2003) (Third Revision) for Gasoline.

11. In case of diesel vehicles, the engine power shall be measured on engine dynamometer and the measured power shall not differ from the specified power as given below:

(i) For Type approval: $\pm 2\%$ at maximum power point and $+6\%$ and -2% at other measurement points.

(ii) For conformity of production: $-5\% / +8\%$ at maximum power point.

(iii) Testing procedures shall be in accordance with Chapter 6 of Part IV of the reference document MOST/CMVR/TAP-115/116 as amended from time to time by the Government of India in the Ministry of Shipping, Road Transport and Highways.

12. The vehicles mentioned in clause (D) shall also comply with rule 115(2).]

(E) Diesel vehicle with GVW exceeding 3500 kg. and fitted with advanced exhaust after treatment system including De-NOx catalyst and / or particulate trap shall additionally conform to the following norms:—

Limit Values for Type Approval (TA) as well as (COP)			
Engine Transient Cycle (ETC)			
CO (g/kWh)	HC (g/kWh)	NOx (g/kWh)	PM (g/kWh)
5.45	0.78	5.0	0.16/0.21 ⁽³⁾

(3) For engines having volume of less than 0.75 litre per cylinder and rated power speed of more than 3000rpm.

Notes.—

1. The test shall be on engine dynamometer.
2. There shall be no relaxation for COP purpose.
3. The gaseous and particulate emissions are to be determined on the ETC test as described in EEC document 1999/96/EC and comply with the norms given below.

4. In addition, the gaseous and particulate emission are to be determined on the ESC test as described in EEC document 1999/96/EC and meet the prescribed gaseous and particulate emission norms as given in clause(D).

5. In addition, the smoke opacity is to be determined on the ELR test as described in EEC document 1999/96/EC and meet the prescribed smoke density norms as given in clause (D).

6. The reference fuel shall be as specified in Annexure IV-F.
7. The conformity of production (COP) testing procedure shall be as described in section 9 of Annexure I of EEC Directive 88/77/EEC last amended by 1999/96/EC

(8) The COP frequency and samples:—

(i) The COP period for each engine model including its variants shall be once in a year.

(ii) For production volume of less than 250 for six months, the method as prescribed in the provisos to rule 126-A shall apply.

(9) For diesel engine vehicles, the emission of visible pollutants (smoke) shall not exceed the limit value of smoke density, as per Annexure I to rule 115(9). These smoke limits are without correction factor and engines are to be tested with conditioned air supplied to the engine to maintain atmospheric factor of 0.98 to 1.02.

10. The vehicles meeting the above norms shall use commercial fuel as per BIS specification IS:1460-2000 (Amendment No. 1—January, 2003) (Fourth Revision) for Diesel.

11. In case of diesel vehicles, the engine power shall be measured on engine dynamometer and the measured power shall meet the requirements as given below:

(i) For type approval: \pm 2% at maximum power point and +6% and -2% at other measurement points.

(ii) For conformity of production: -5% / +8% at maximum power point.

(iii) Testing procedures shall be in accordance with Chapter 6 of Part IV of the reference document MOST /CMVR /TAP-115/116 as amended from time to time by the Government of India in the Ministry of Shipping, Road Transport and Highways.

12. The vehicles mentioned in clause (E) shall also comply with rule 115(2).]

^{89a}[^{89b}] (F) (i) The mass Emission Standards (Bharat Stage-III) as specified in sub-clause (iii), shall be applicable in the National Capital Region and the cities of Mumbai, Kolkata, Chennai, Bangalore, Hyderabad, including Secunderabad, Ahmedabad, Pune, Surat, Kanpur, Agra, Sholapur and Lucknow in respect of two and three wheeler vehicles manufactured on or after 1st October, 2014];

(ii) The Mass Emission Standards (Bharat Stage-iii) as specified in sub-clause (iii), shall be applicable in all the States and the Union Territories except National Capital Region and the cities of Mumbai, Kolkata, Chennai, Bangalore, Hyderabad including secunderabad, Ahmedabad, Pune,

^{89a} Inserted by G.S.R. 84(E), dated 9-2-2009 (w.e.f 1-4-2010).

^{89b} Substituted by G.S.R. 443(E), dated 21-5-2010 (w.e.f.21-5-2010)and as corrected by G.S.R. 447(E), dated 26-5-2010.

Surat, Kanpur, Agra, Sholapur and Lucknow in respect of two and three wheeler manufactured on or after 1st October, 2014];

(iii) The Mass Emission Standards (Bharat Stage-iii) for ^{89c} [two wheelers, three wheelers and quadricycles] vehicles shall be as under:-

Vehicle Category	Pollutants	T A=COP norms (g/km)	(Deterioration Factor)
(1)	(2)	(3)	(4)
Two-wheelers (Gasoline)	CO	1.0	1.2
	HC+NOx	1.0	1.2
Three-wheelers (Gasoline)	CO	1.25	1.2
	HC+NOx	1.25	1.2
Two-wheelers and Three-wheelers (Diesel)	CO	0.50	1.1
	HC+NOx	0.50	1.0
	PM	0.50	1.2

^{89c}. Substituted by G.S.R. 99(E), dated 19-2-2014 (w.e.f. 1-10-2014).

Notes.—

1. (a) For vehicles operating on CNG mode, the provisions of rule 115-B shall be applicable.
 (b) For vehicles operating on LPG mode, the provisions of rule 115-C shall be applicable
2. The reference fuel for Diesel and Gasoline vehicle shall be as specified in Annexure IV-F and Annexure IV-G respectively and reference fuel for CNG and LPG shall be as available commercially.
3. The commercial fuel for Gasoline and Diesel vehicle shall be as per BIS Specification IS: 1460-2005 (Fifth revision) for diesel and IS: 2796-2008 (Amendment No. I-JANUARY, 2008) (Forth Revision) for Gasoline, Specification for Commercial CNG and LPG shall be as notified from time to time.
4. The provision of clauses (a), (c), (d), (e) and (f) of sub-rule (12) of rule 115, except the provision therein, shall be applicable to the said vehicles.
5. In case of diesel vehicles, the engine power shall be measured on engine dynamometer and the measured power shall conform to the power specified in Chapter 1 of Part IV of MoSRTH/CMVR/TAP-115/116 as amended from time to time, when tested as per the procedures laid down in Chapter 6 of Part IV MoSRTH/CMVRIT AP – 115/116 as amended from time to time.

6. (i) Gasoline/CNG/LPG vehicles specified herein shall comply with the provision of clause (i) of sub-rule (2) of rule 115.

(ii) Diesel vehicle specified herein shall comply with clause (ii) of sub -rule (2) of rule 115.

^{89d}[(FA) Alternate Mass Emission Standards (Bharat Stage-III) for two wheeler gasoline vehicles, with engine capacity exceeding 50cc or a maximum design speed exceeding 50 km/hour, based on worldwide Harmonised Motorcycle Emission Certificate (WMTC) Procedure shall be as under:-

Class	Pollutants	TA = COP norms Including Deterioration Factor (g/km)
(1)	(2)	(3)
Class 1 and	Co	1.87
Sub Class 2.1	HC+NOx	1.08
Sub Class 2.2	CO	2.62
	HC+NOx	0.92
Sub Class 3.1	CO	2.62
	HC+NOx	0.55
Sub Class 3.2	CO	2.62
	HC+Nox	0.55

^{89dd}[Provided that the two wheelers manufactured on and after the 1st April 2016 for new types of vehicle models and from the 1st April, 2017 for existing types of vehicle models, for the areas other than those specified in clause (a) of sub-rule (15) of rule 115, shall be type approved as per requirements of sub-rule (16): Provided further that the Conformity of Production (COP) requirements shall also be as specified in sub-rule (16):]

^{89ddd}[Provided also that for new vehicle models of three wheelers manufactured on or after the 1st April, 2016, and for existing vehicle models of three wheelers manufactured on or after 1st April, 2017, for the areas other than those specified in clause (a) of sub-rule (15), shall be as specified in sub-rule (17).]

^{89d}. Inserted by G.S.R. 515(E), dated 29-6-2012 (w.e.f. 29-6-2012).

^{89d}. Inserted by G.S.R. 431(E), dated 4-7-2014 (w.e.f. 4-7-2014).

^{89ddd}. Inserted by G.S.R. 487(E), dated 12-6-2015 (w.e.f. 12-6-2015).

Provided also that the conformity of production requirements shall also be as specified in Sub-rule (17)]

Explanatory Notes.—

For the purpose of this clause,-

1. Classification of vehicles and weighting factor for final emission result shall be as given below:-

	Definition of Class	Cycles	Weighting factors for final emission results
Class 1	Engine capacity above 50 CC but less than 150 cc and vehicle maximum speed equal or less than 50 km/h or engine capacity less than 150 CC and vehicle maximum speed more than 50 km/h but less than 100 km/h.	Part 1 Reduced Speed cold followed by Part 1 Reduced Speed Hot	Part 1 Reduced Speed cold shall be 50% and Part 1 reduced Speed Hot shall be 50%
Sub Class 2.1	Engine capacity less than 150 cc and vehicle maximum speed equal to or more than 100 km/h but less than 115 km/h or engine capacity 150 cc and above and vehicle maximum speed less than 115 km/h	Part 1 Reduced Speed cold followed by Part 1 reduced Speed Hot	Part 1 Reduced Speed cold shall be 50% and part 1 reduced Speed Hot shall be 50%
Sub Class 2.2	Any engine capacity and vehicle maximum speed equal to or more than 115 km/h but less than 130 km/h	Part 1 cold followed by Part 2 Hot	Part 1 cold shall be 30% and Part 2 Hot shall be 70%
Sub Class 3.1	Any engine capacity, vehicle maximum speed equal to or more than 130 km/h but less than 140 km/h	Part 1 cold followed by Part 2 Hot followed by Part 3 Reduced Speed	Part 1 cold shall be 25% Part 2 Hot Shall be 50% and Part 3 Reduced shall be 25%
Sub Class 3.2	Any engine capacity and vehicle maximum speed equal to or more than 140 km/h	Part 1 cold followed by Part 2 Hot followed by Part 3	Part 1 Cold shall be 25% Part 2 Hot shall be 50% and Part 3 shall be 25%

2. The test procedure and driving cycles shall be as per United Nations Economic Commission for Europe (UN ECE) Global Technical Regulation (GRT)-2 incorporating Amendment 2, with Preconditioning, soaking and cold start on classis dynamometer as specified above.

3. Vehicle Preconditioning: Operated through the cycles prescribed as above.

4. Vehicle Soaking: The vehicle shall be stored for not less than six hours and not more than thirty-six hours prior to the cold start Type I test or until the engine oil temperature (To) or the coolant temperature (Tc) or the sparkplug seat/gasket temperature (Tp), only for air cooled engine, equals the air temperature of the soak area.

5. Preparatory running before sampling is not required, sampling starts at T=0 second.

6. Break down of different parts of Worldwide Harmonised Motorcycle Emissions Certification (WMTC) shall be as per the details given in Annexure 5 of Chapter XIII-A of Ministry of Road Transport and Highways/Central Motor Vehicles Rules/Type Approval Procedure -115/116 (MoRTH/CMVR/TAP-115/116).

7. Reference fuel shall be as specified in Annexure IV-G of the said rules.

8. Requirements of durability have been built in the mass emission standards specified above.

9. Conformity of production (Cop) Frequency and sampling shall be as per clause (e) of sub –rule (12) of rule 115 of the said rules.

10. The procedure shall be in according with Ministry of Road Transport and Highways/Central Motor Vehicles Rules/Type Approval Procedure - 115/116 (MoRTH/CMVR/TAP-115/116).

11. The vehicle shall comply with the provision of clause (i) of sub-rule (2) of rule 115 of the said rules.

12. The commercial fuel for gasoline vehicle shall be as per Bureau of Indian Standards specification IS: 2796-2008 for gasoline.]

^{89e}[(G) ^{89f}[(i)] The provision of this sub-rule in respect of four wheeler vehicles manufacturing on and from the 1st October, 2010 shall apply to all the States and the Union territories except National Capital Region and the cities of Mumbai, Kolkata, Chennai, Bangalore, Hyderabad, including Secunderabad, Ahmedabad, Pune, Surat, Kanpur, Agra, Sholapur and Lucknow;]]

^{89e}. Substituted by G.S.R. 443(E), dated 21-5-2010(w.e.f. 21-5-2010) and as corrected by G.S.R. 447(E), dated 26-5-2010.

^{89f}. Renumber as CI. (i) and CI. (ii) Inserted by G.S.R. 504(E), dated 16-7-2014(w.e.f. 1-10-2014).

^{89f}[(ii) the provision of this sub-rule in respect of four-wheeled vehicles manufactured on and from the 1st October, 2014 shall be not apply to the cities of Puducherry, Mathura, Vapi, Jamnagar, Ankaleshwar, Hissar, Bharatpur, Daman, Diu, Silvasa, Unnao, Rea Bareilly, Aligarh, Karnal, Valsad, Yamuna Nagar, Kurukshetra, Nizamabad, Medak and Mehboobnagar;]

^{89g}[(iii) the provision of this sub-rule in respect of four wheeler vehicles manufactured on and from the 15th July, 2015 shall not apply to the cities of Vrindavan, Kosi, Kalan, Hindaun city, Dholpur, Ahmedanagar, Mahabaleshwar, Lonawala, Palgarh, Dahanu, Talasari, Boisar, Panchagani, Mahad, Nagothana, Indapur, Vizag, Kochi, Trivandrum, Kavaratti, Nagar, Dig, Nadbai, Bhiwani, Jind, Mahendagarh, Hansi, Charki Dadri, Narnaul, Kiruli and Fatehpur Sikri;]

^{89h}[(iv) the provision of this sub-rule in respect of four wheeler vehicles manufactured on and from the 1st October, 2015 shall not apply to the State of Jammu and Kashmir (except Districts of Leh and Kargil), Punjab, Haryana, Himachal Pradesh, Uttarakhand, and districts of Hanumangarh and Sri Ganganagar in the State of Rajasthan and in the districts of Saharanpur, Muzaffarnagar, Bijnaur, Jyotiba Phule Ngar, Rampur, Muradabad, Aligarh, Badaun, Bareily, Mathura, Mahamayanagar, Etah, Agra, Firozabad, Etawah, Manipuri, Pilibhit, Shamli, Sambhal, Farrukabad, Kannauj, Auriya and Kasganj, in the State of Uttar Pradesh;

(v) the provision of this sub-rule in respect of four wheeler vehicles manufactured on and from the 15th April, 2016 shall not apply to the States of Goa, Kerala, Karnataka, Telangana, Odisha and the Union territories of Daman and Diu, Dadra and Nagar Haveli and Andaman and Nicobar Islands, districts of Mumbai, Thane and Pune in the State of Maharashtra and districts of Surat, Valsad, Sangt and Tapi, in the State of Gujarat;

(vi) .the provision of this sub-rule in respect of four-wheeled vehicles manufactured on and from 1st April, 2016 shall not applicable.]

⁸⁹ⁱ[(15)] Mass Emission Standards (Bharat Stage-IV) for M and N Category vehicles:- (a) the Mass Emission Standards for Bharat Stage-IV shall

^{89g}. Inserted by G.S.R. 555(E), dated 14-7-2015 (w.e.f.14-7-2015)

^{89h}. Inserted by G.S.R. 643(E), dated 19-8-2015 (w.e.f. 19-8-2015).

⁸⁹ⁱ. Inserted by G.S.R. 84(E), dated 9-2-2009 (w.e.f. 1-4-2010).

come into force in the National Capital Region and the cities of Mumbai, Kolkata, Chennai, Bangalore, Hyderabad including Secunderabad, Ahmedabad, Pune, Surat Kanpur, and Agra in respect of four-wheeled vehicles manufactured on or after the 1st April, 2010, except the four-wheeled transport vehicles plying on Inter-State permits or National permits or all India Tourist permits, within the jurisdiction of these cities:

^{89j}[Provided that the Mass Emission Standards (Bharat Stage-IV) shall applicable in the cities of Solapur and Lucknow in respect of four wheeler vehicle manufactured on or after 1st June, 2010 except the four wheeler transport vehicle plying on Inter-State Permits or National Permits or All India Tourist Permits, within the jurisdiction of the said cities:]

^{89k}[Provided further that the Mass Emission Standards (Bharat Stage IV) shall be applicable in the cities of Puducherry, Mathura, Vapi, Jamanagar, Ankaleshwar, Hissar, Bharatpur, Daman, Diu, Silvassa, Unnao, Rae Bareilly, Aligarh, Karnal, Valsad, Yamuna Nagar, Kurukshetra, Nizamabad, Medak and Nehboobnagar in respect of four wheeled transport vehicle plying on Inter-State Permits or National Permits or all India Tourist Permits, within the jurisdiction or the said cities:]

^{89l}[Provided also that the Mass Emission Standards (Bharat State IV) shall be applicable in the cities of vrindavan, Kosi Kalan, Hindaun city, Dholpur, Ahmednagar, Mahabaleshwar, Lonwala, Palgarh, Dahanu, Talasari, Boisar, Panchagani, Mahad, Nagothana, Indapur,Vizag, Kochi, Trivandrum, Kavaratti, Nagar, Dig, Nadbai, Bhiwani, Jind, Mahemdragarh, Hansi, Charki Dadri, Narnaul, Kiruli and Fatehpur Sikri in respect of four wheeler vehicle manufactured on or after the 15th July, 2015 except the four wheeler transport vehicle plying on Inter-State Permits or National Permits or All India Tourist Permits, within the jurisdiction of the said cities:]

^{89h}[Provided also that, without prejudice to the provision contained in the above provision, the Mass emission Standards, Bharat Stage IV, shall be applicable to the State of Jammu and Kashmir (except districts of Leh and Kargil); Punjab, Haryana, Himachal Pradesh, Uttarakhand and districts of

^{89j}. Inserted by G.S.R. 443(E), dated 21-5-2010 (w.e.f. 21-5-2010).

^{89k}. Inserted by G.S.R. 504(E), dated 16-7-2014 (w.e.f. 1-10-2014).

^{89l}. Inserted by G.S.R. 555(E), dated 14-7-2015 (w.e.f. 14-7-2015).

Hanumangarh and Sri Ganganagar in the State Rampur, Moradabad, Aligarh, Bndun, Bareilly, Mathura, Mahamayanagar, Etha, Agra, Firozabad, Etawah, Mainpuri, Pilibhit, Shamli, Sambhal, Farrukabad, Kannauj, Auriya and Kasganj in the State of Uttar Pradesh in respect of four wheeled vehicle manufactured on or after the 1st October, 2015, except the four wheeled transport vehicle plying on Inter-State Permits or National Permits or all India Tourist Permits, within the jurisdiction of said district and States.

Provided also that, without prejudice to the provisions contained in the above provisos, the Mass Emission Standards, Bharat Stage IV, shall be applicable in the States of Goa, Kerala, Karnataka, Telangana, Odisha and the Union territories of Daman and Diu, Dadra and Nagar Haveli and Andaman and Nicobar Island, districts of Surat, Valsad, Dange and Tapi in the State of Gujurat, in respect of four-wheeled vehicle manufactured on or after the 1st April, 2016, except the four wheeled transport vehicle plying on Inter-State Permits or National Permits or All India Tourist Permits, within the jurisdiction of the said districts and states].

^{89^{la}}

[Provided also that nothing in this clause shall apply to the motor vehicle used for Government purposes relating to the defence of the country and registered under section 60 of the Act]

^{89^{lb}}

[Provided also that nothing in this clause shall apply to the special purpose vehicles (armoured and other specialised vehicles) used for operational purposes for maintenance of law and order and internal security,
^{89^{lc}}

[****]:]

Explanation.- For the purpose of Sub-rule (14) and (15), the – “National Capital Region” shall have the same meaning as assigned to it in clause (f) of section 2 of the National Capital Region Planning Board Act, 1985 (2 of 1985);

^{89^m}

[(aa) without prejudice to the provision contained in the provisos to clause (a), the Mass Emission Standards for Bharat Stage IV shall come into *****

^{89^{la}}

Inserted by G.S.R.485 (E), dated 19-05-2017 (w.e.f. 19-05-2017)

^{89^{lb}}

Inserted by G.S.R.871 (E), dated 13-09-2018 (w.e.f. 13-09-2018)

^{89^{lc}}

Omitted by G.S.R.547(E), dated 01-08-2019 (w.e.f. 01-08-2019)

^{89^m}

. Inserted by G.S.R.643 (E), dated 19-8-2015(w.e.f. 19-8-2015).

force all over the country in respect of four wheeled vehicles manufactured on or after the 1st April, 2017;]

^{89^a}[Provided that nothing in this clause shall apply to the motor vehicle used for Government purposes relating to the defence of the country and registered under section 60 of the Act]

^{89^b} [Provided that nothing in this clause shall apply to the special purpose vehicles tamoured and other specialised vehicles) used for operational purposes for maintenance of law and order and internal security,

^{89^c} [****]:]

(b) the Mass Emission Standards for Bharat Stage IV shall be as under.-

(i) the mass emission standards for Bharat Stage-IV, Category M and Category N vehicle manufactured on or after the 1st April, 2010, with Gross Vehicle Weight not exceeding 3,500 kg, shall be as under:

Limit Values for TA and COP

Category	Class	Reference Mass (RW) (kg)	Mass of Carbon Monoxide (CO) (g/km)	Mass of Hydro Carbon (HC) (g/km)	Mass of Oxides of Nitrogen (NOx)(g/km)	Combined mass of Hydro-carbons and Oxides of Nitrogen (HC+NOx) (g/km)	Mass of Particulates (PM) (g/km)
			Gasoline	Diesel	Gasoline	Gasoline	Diesel
M*	-	All	1.00	0.50	0.10	0.08	0.25
N1 and M**	I	RW≤1305	1.00	0.50	0.10	0.08	0.25
	II	1305<RW≤1760	1.81	0.63	0.13	0.10	0.33
	III	1760<RW	2.27	0.74	0.16	0.11	0.39
						0.46	0.06

*These limits are not applicable for vehicles designed to carry more than six persons including driver or vehicle whose gross vehicle weight exceed 2,500 kg.

**These limits are applicable for vehicles designed to carry more than six persons including driver or vehicles whose gross vehicle weight exceeds 2,500 kg.

Notes.-

1. The test shall be on chassis Dynamometer.
2. The test including driving cycle shall be as provided in sub-rule (10) with the modifications that-

(i) The exhaust gas sampling should start at the initiation of the engine start up procedure referred to in Annexure IV-E.

(ii) The driving cycle shall be at a maximum speed of 90km/hour referred to in Annexure IV-E.

3. There shall be no relaxation of norms for conformity of production (COP) purpose.

4. (i) In case of vehicle operating on CNG, the provision in rule 115-B shall be applicable.

(ii) In case of vehicle operating on LPG, the provisions in rule 115-C shall be applicable

5. The reference fuel shall be as specified in Annexure IV-J for Gasoline vehicles, Annexure IV-K for diesel vehicles, Annexure IV-L for CNG (G20 and G25) vehicles and Annexure IV-M for LPG (Fuel A and Fuel B) vehicle respectively. Reference Fuel as per Annexure IV-L and IV-M shall be used for type Approval and conformity of production one year after the same is available to the test agencies. Till then, Commercial CNG/LPG fuel shall be vehicles.

6. There shall be no crankcase emission for Gasoline driven vehicles.

7. Evaporative emission shall not be more than 2.0 g/test from Gasoline driven vehicles. The evaporative emission test procedure for Gasoline driven vehicles shall be as per the procedure specified in MoSRTH/CMVR/TAP-115/116 and as amended from time to time.

8. The Conformity of Production (COP) testing procedure shall be as described in MoSRTH/CMVR/TAP-115/116 as amended from time to time.

9. The COP frequency and samples:-

(i) The conformity of Production period for each vehicle model including its variant (s) shall be once in a year;

(ii) Where production volume in six months is less than 250 per model including its variants, the provisions contained in the provision to rule 126-A shall apply.

10. The commercial Gasoline and Diesel fuel shall be as per Annexure IV-N and IV-O in respect of the places mentioned in clause (a) of this sub-rule and in respect of all other places, the commercial fuel shall be Bharat Stage- III as per BIS specification IS: 1460-2005 (fifth revision) for Diesel and IS: 2796-2008 (Amended No. 1-January 2008) (fourth revision) for Gasoline Specification for commercial CNG and LPG shall be as notified from time to time.

11. For the vehicles of the Category M and Category N with Gross Vehicle Weight not exceeding 3,500kg.-

(i) Deterioration factor shall be as given below:-

Engine Category	Deterioration Factor				
	CO	HC	NOx	HC+NOx	PM
Gasoline/Gaseous Fueled engines	1.2	1.2	1.2	Not applicable	
Diesel Engines	1.1	Not applicable	1.0	1.0	1.2

(ii) Alternatively, the vehicle manufacturers may opt for an ageing test of 80,000 km for evaluating deterioration factor as per MoSRTH/CMVR/TAP-115/116 and as amended from time to time.

(iii) The maximum lap speed at 10th lap and 11th lap shall be 72 km/hour and 90 km/hour respectively.

(iv) The above aging test should be carried out by the approved test agency specified in rule 1

12. For Diesel Vehicles, the emission of visible pollutants (smoke) shall not exceed the limit value of smoke density, when expressed as light absorption co-efficient for various nominal flows as given in Annexure I to sub-rule (9) of rule 115 when tested at constant speeds over the full load. These smoke limits are without correction factor and engines are to be tested with conditioned air supplied to the engine to maintain atmospheric factor at 0.98 to 1.02.

13. In the case of Diesel vehicles, the engine power shall be measured on engine dynamometer and the measured power shall conform to the power specified in Chapter 1 of Part IV of MoSRTH/CMVWR/TAP-115/116 as amended from time to time, when tested as per the procedures laid down in Chapter 6 of Part IV of MoSRTH/CMVR/TAP -115/116 as amended from time to time.

14. (i) All Gasoline/CNG/LPG vehicles specified in this sub-clause shall comply with the provision of clause (i) of sub-rule 115.

(ii) All Diesel Fuelled Vehicles specified in this Sub-clause shall comply with the provision of clause (ii) of sub-rule (2) of rule 115.

15. The vehicles of Category M and Category N with Gross Vehicle Weight not exceeding 3,500 kg. shall be equipped with On-Board Diagnostic (OBD) system for emission control which shall have the capability of identifying the likely area of malfunction by means of fault codes stored in computer memory for vehicles manufactured on and from 1st April 2010 as per the procedure laid down in MoSRTH/CMVR/TAP -115/116 and as amended from time to time. The On-Board Diagnostic (OBD) system for emission control shall be as specified in the Tables below:-

TABLE I

On-Board Diagnostic (OBD) system for emission control:

Sl.No.	Engine Type	Category of Vehicles	Year	
			OBD I Vehicles manufactured on and from	OBD II vehicles manufactured on and from
1.	Gasoline Fueled Engines	M1 and M2 (less than 3,500 kg GVW)	1 st April 2010	1 st April 2013
2.	Gasoline Fueled Engines	N1	1 st April 2010	1 st April 2013
3.	LPG or CNG fueled Engines	M1 and M2 (less than 3,500 kg GVW)	-	1 st April 2013
4.	LPG or CNG fueled Engines	N1	-	1 st April 2013
5.	Compression Ignition Engines	M1 and M2 (less than 3,500 kg GVW)	1 st April 2010	1 st April 2013
6.	Compression Ignition Engines	N1	1 st April 2010	1 st April 2013
7.	All	Vehicles above 3,500 kg GVW	-	1 st April 2013

TABLE II
All Positive Ignition Vehicles
OBD Monitoring Items

Monitoring Items	OBD I Vehicles manufactured on and from	OBD II vehicles manufactured on and from
Catalyst	-	1 st April 2013
Misfire	-	1 st April 2013
O(Oxygen) sensor	1 st April 2010	1 st April 2013
Secondary Air system (if provided)	1 st April 2010	1 st April 2013
Coolant temperature	1 st April 2010	1 st April 2013
EGR, (Exhaust Gas Recirculation) (if provided)	1 st April 2010	1 st April 2013
Fuel tank leakage and evaporation	-	1 st April 2013
Fuel system	-	1 st April 2013
Emission Control systems/components (Comprehensive Components)	1 st April 2010	1 st April 2013
Circuit continuity for all emission related power train components	1 st April 2010	1 st April 2013
Distance traveled since MIL (Malfunction Indicator Lamp) ON	1 st April 2010	1 st April 2013

TABLE III
All Compression Ignition Vehicles
OBD Monitoring Items

Monitoring Items	OBD I Vehicles manufactured on and from	OBD II vehicles manufactured on and from
Catalyst	-	1 st April 2013
Electronic fuel Injection system	1 st April 2010	1 st April 2013
Particulate Trap (if provided)	-	1 st April 2013
Coolant temperature	1 st April 2010	1 st April 2013
EGR, (Exhaust Gas Recirculation) (if provided)	1 st April 2010	1 st April 2013
Fuel system	-	1 st April 2013
Emission Control systems/components (Comprehensive Components)	1 st April 2010	1 st April 2013

Circuit continuity for all emission related power train components	1 st April 2010	1 st April 2013
Distance travelled since MIL (Malfunction Indicator Lamp) ON	1 st April 2010	1 st April 2013

16. For vehicles manufactured on and from 1st April 2013, the On-Board Diagnostic-II (OBD-II) systems for emission control must indicate the failure of an emission-related component or system, as per the procedure laid down in MoSRTH/CMVR/TAP-115/116 and as amended from time to time, when that failure results in an increase in emissions above the limits given in the Table below:

Category	Class	Reference Mass	Mass of Carbon Monoxide		Mass of Hydrocarbons		Mass of oxides of Nitrogen (g/km)		Mass of Particulates	
			(RW)	(CO)	(HC)	(NOx)	(PM)			
			(kg)	(g/km)	(g/km)	(g/km)	(g/km)	(g/km)	(g/km)	(g/km)
M*	-	All	3.2	3.2	0.4	0.4	0.6	1.2	0.18	Diesel
N1 and M**	I	RW≤1305	3.2	3.2	0.4	0.4	0.6	1.2	0.18	
	II	1305<RW≤1760	5.8	4.0	0.5	0.5	0.7	1.6	0.23	
	III	1760<RW	7.3	4.8	0.6	0.6	0.8	1.9	0.28	

*These limits are not applicable for vehicle designed to carry more than six persons including driver or vehicles whose gross vehicle weight exceeds 2,500 kg.

**These limits are applicable for vehicle designed to carry more than six persons including driver or vehicles whose gross vehicle weight exceeds 2,500 kg.

(iii) Vehicles with Gross Vehicle Weight exceeding 3,500 kg manufactured on or after the 1st April, 2010 and equipped with either the diesel engines or the CNG Engines or the LPG Engines shall conform to the following norms:-

(A) For Diesel engines

Limit values for Type Approval (TA) as well as (COP)				
Engine Steady State Cycle (ESC) test				Engine Load Response (ELR) test
CO (g/kWh)	HC (g/kWh)	NOx (g/kWh)	PM (g/kWh)	Smoke(m^{-1})
1.5	0.46	3.5	0.02	0.5

(B) For diesel engines, CNG Engines or LPG Engines

Engine Transient Cycle (ETC) test				
CO(g/kWh)	NMHC ⁽¹⁾ (g/kWh)	CH4 ⁽²⁾	NOx(g/kWh)	PM ⁽³⁾
4.0	0.55	1.1	3.5	0.03

(1) A manufacturer may choose to measure the mass of total hydrocarbons (THC) instead of measuring the mass of non-methane hydrocarbon (NMHC). In this case, the limit for mass of THC should be same as for the NMHC.

(2) For CNG engines only.

(3) For Diesel engines only.

Notes.-

1. The test shall be done on engine dynamometer.
 2. There shall be no relaxation of norms for Conformity of Production (COP) purpose.
 3. In case of vehicle operating on diesel fuelled engines, the gaseous and particulate emission shall be as per Engine Steady State Cycle (ESC) and Engine Transient Cycle (ETC) and smoke test shall be as per Engine Load Response (ELR) as specified in MoSRTH/CMVR/TAP -115/116 and as amended from time to time.

4. In case of vehicles operating on CNG or LPG fuelled engines, the gaseous emissions are to be determined only on the Engine Transient Cycle (ETC) test as specified in MoSRTH/CMVR/TAP -115/116 as amended from time to time.

5. The smoke Opacity is to be determined only on the Engine Load Response (ELR) test as specified in Part XII of MoSRTH/CMVR/TAP - 115/116 as amended from time to time.

6. In case of vehicle operating on CNG or LPG mode, the provisions of rules 115-B and 115-C shall be applicable respectively.

7. The reference fuel shall be as specified in Annexure IV-K for Diesel vehicles, Annexure IV-L for CNG (G20, G23 and G25) vehicles and Annexure IV-M for LPG (Fuel A and Fuel B) vehicles respectively. Reference Fuel as per Annexure IV-L and IV-M shall be used for Type Approval and Conformity of Production, one year after the same is available to the test agencies. Till then, Commercial CNG/LPG fuel shall be used.

8. The conformity of Production (COP) testing procedure shall be as specified in MoSRTH/CMVR/TAP -115/116 as amended from time to time.

9. The conformity of Production (COP) frequency and samples:

(i) The conformity of Production period for each engine model including its variants (s) shall be once a year;

(ii) Where production volume in six months is less than 250 per model including its variants, the provisions contained in the provisos to rule 126-A shall apply.

10. For diesel engine vehicles, the emission of visible pollutants (smoke) shall not exceed the limit value of smoke density, as per Annexure I to sub-rule (9) of rule 115. These smoke limits are without correction factor and engines are to be tested with conditioned air supplied to the engine to maintain atmospheric factor of 0.98 to 1.02.

11. The commercial Diesel fuel shall be as per Annexure IV-O in respect of the places mentioned in Sub-clause (i) of clause (a) of this sub-rule and in respect of all other places, the commercial fuel shall be as per BIS specification IS: 1460-2005 (fifth revision) for Diesel. Specification for commercial CNG and LPG shall be as notified from time to time.

12. For vehicles with Gross Vehicle Weight exceeding 3,500 kg manufactured on or after the 1st April, 2010,-

(i) Deterioration factor shall be as given in the Table below:-

Engine type	Test cycle	CO	HC	NMHC	CH ₄	NO	PM
Diesel engine	ESC	1.1	1.05	-	-	1.05	1.1
	ETC	1.1	1.05	-	-	1.05	1.1
CNG,LPG or Gaseous Fueled engine	ETC	1.1	1.05	1.05	1.2	1.05	-

(ii) Alternative, the vehicle manufacturers may opt for evaluation of deterioration factor as specified in MoSRTH/CMVR/TAP -115/116 as amended from time to time.

The above ageing test should be carried out by the approval test agency.

13. In the case of Diesel vehicles, the engine power shall be measured on engine dynamometer and the measured power shall not differ from the specified power as given in Chapter 1 of part IV of MoSRTH/CMV/TAP-115/116 as amended from time to time when tested as per procedures laid down in Chapter 6 of Part IV of MoSRTH/CMVR/TaP – 115/116 as amended from time to time.

14.(i) The CNG and LPG vehicles specified in this sub-clause shall comply with the provisions of clause (ii) of sub-rule (2) of rule 115.

15. The extension of type approval to engine family and engine after treatment system family shall be as described in MoSRTH/CMVR/TAP-115/116 as amended from time to time.

16. The vehicles specified in this sub-clause shall be equipped with an On Board Diagnostic systems for emission control which shall have the capability of identifying the likely area of malfunction by means of fault codes stored in computer memory for vehicle manufactured on and from 1st April 2013, as per procedure laid down in MosRTH/CMVR/TAP-115/116 and as amended from time to time.

Category of Vehicle in which engine will be installed	Minimum Service accumulation period
Category N1 vehicles	100,000km
Category N2 Vehicles	125,000 km
Category N3 Vehicles with GVW equal to or less than 16,000 kg	125,000 km
Category N3 Vehicles with GVW above 16,000 kg	167,000 km
Category M2 Vehicles	100,000 km
Category M3 Vehicles with GVW equal to or less than 7,500 kg	125,000 km
Category M3 Vehicles with GVW above 7,500 kg	167,000 km

17. The Diesel engine NOx reduction agent AUS 32 (Aqueous Urea Solution) shall conform to Part 1 and Part 2 of ISO 22241-2006.]

⁹⁰**[**(16)**** Mass emission standards (Bharat Stage IV) shall come into force for two wheelers manufactured on and after the 1st April, 2016 for new types of vehicle models and from the 1st April, 2017 for existing types of vehicle models-

A.Two wheeled vehicles fitted with gasoline engines –

I.Mass emission standards (Bharat Stage IV) for two wheelers, with engine capacity exceeding 50 cc and a maximum design speed exceeding 50km per hour: Based on World-wide armonized Test Cycle (WMTC) –

90. Inserted by G.S.R 431(E), dated 4-7-2014 (w.e.f.4-7-2014).

TABLE 1

Class	TA=COP norms (g/km)			
			HC + NOx	
	CO	NOx	If the evaporative emission commission with 2 g/test	If the evaporative emission complies with 6 g/test
(1)	(2)	(3)	(4)	(5)
Class 1 and Sub-class 2-1	1.40	0.39	0.79	0.59
Sub-class 2-2	1.97	0.34	0.67	0.47
Sub-class 3-1 and Sub-class 3-2	1.97	0.20	0.40	0.20

Explanatory Notes :- For the purpose of this clause, -

1. Classification of vehicles and weighting factor for the final emission result shall be as given below :-

	Definition of class	Cycles	Weighting factors for final emission results
Class 1	Vehicles that fulfill the following specifications belong to class 1 : engine capacity $50 \text{ cm}^3 < \text{engine capacity} < 150 \text{ cm}^3$ and $\text{Vmax} \leq 50 \text{ km/h}$ or engine capacity $< 150 \text{ cm}^3$ and $50 \text{ km/h} < \text{Vmax} < 100 \text{ km/h}$	Part 1 Reduced Speed cold and Part 1 Reduced Speed Hot	Part 1 Reduced Speed cold shall be 50% and Part 1 Reduced Speed Hot shall be 50%
Sub-	Vehicles that fulfill the following specifications belong to class 2 : engine capacity $> 150 \text{ cm}^3$ and $\text{Vmax} \geq 100 \text{ km/h}$	Part 1 Reduced Speed cold and Part 1 Reduced Speed Hot	Part 1 Reduced Speed cold shall be 50% and Part 1 Reduced Speed Hot shall be 50%

Class	following specifications	Speed cold and									
2.1	belong to class 2-1: followed by Engine capacity < 150 cm ³ and 100 km/h ≤ V max < 115 km/h or Engine capacity ≥ 150 cm ³ and V max < 115 km/h	Part 1 Reduced Speed Hot shall be 50%									
Sub-Class	Vehicles that fulfill the following specifications	Part 1 cold followed by	Part 1 cold	shall	be	30%					
2.2	belong to class 2-2 : 115 km/h ≤ V max < 130 km/h	Part 2 hot shall be 70%									
Sub-Class	Vehicles that fulfill the following specifications	Part 1 cold followed by	Part 1 cold	shall	be	25%					
3-1	belong to class 3-1: 130 km/h < V max < 140 km/h	Part 2 hot followed by Part 3 reduced speed	Part 2 Hot	shall	be	50%	and				
Sub-Class	Vehicles that fulfill the following specifications	Part 1 cold followed by	Part 1 cold	shall	be	25%					
3-2	belong to class 3-2: V max ≥ 140 km/h	Part 2 hot followed by Part 3	Part 2 Hot	shall	be	50%	and				

2. The test procedure and driving cycles shall be as per United Nations Economic Commission for Europe (UN ECE) Global Technical Regulation (GTR)-2 incorporating Amendment 2, with preconditioning soaking and cold start on chassis dynamometer as specified above.

3. Vehicle preconditioning: Operated through the cycles prescribed as above.

4. Vehicle soaking: The vehicle shall be stored for not less than six hours and not more than thirty six hours prior to the cold start Type 1 test or until the engine oil temperature (T₀) or the coolant temperature (T_c) or the sparkplug seat/gasket temperature (T₀), only for air cooled engine, equals the air temperature of the soak area.

5. Preparatory running before sampling is not required, sampling starts at T=0 second.

6. Break down of different parts of Worldwide Harmonized Motorcycle Emission Certification (WMTC) shall be as per the details given in Annexure 5 of Chapter XIII A of Ministry of Road Transport and Highways or Central Motor Vehicles Rules or Type Approval Procedure -115/116 (MoRTH/CMVR/TAP-115/116) as amended from time to time.

7. The reference fuel for gasoline vehicle shall be as specified in Annexure IV-J of the said rules and reference fuel for Compressed Natural Gas (CNG) and for Liquefied Petroleum Gas (LPG) shall be as commercially available.

8. The specification of commercial gasoline shall be as specified in Annexure IV-N of the said rules. For the areas other than those specified in Para (a) of sub-rule (15) of rule 115 of principal rules commercial gasoline shall be as per Bureau of Indian Standards specification Is: 2796-2008 for gasoline. Specification for commercial CNG and LPG shall be as notified from time to time.

9. Requirements of durability (for CO- 1.2, NOx- 1.2 & HC+NOx – 1.2 considering 30,000 km. durability run) have been built into the mass emission standards specified above.

10. For vehicles operating on CNG mode, the provisions of rule 115-B shall be applicable.

11. For Vehicles operating on LPG mode, the provisions of rule 115-C shall be applicable.

12. Gasoline or CNG or LPG vehicles specified herein shall comply with the provisions of clause (i) of sub-rule (2) of rule 115.

13. Crankcase ventilation system shall not permit the emission of any of the crankcase gases into the atmosphere.

14. Evaporative emission for gasoline driven vehicles shall not be more than 2g/test or 6g/test, depending on whether the norm for HC + NOx adopted by manufacturer is from Column (4) or Column (5) respectively of Table 1 of mass emission norms and the test procedure shall be as per MoRTH/CMVR/TAP-115/116, as amended from time to time.

15. Conformity of production (COP) frequency and sampling shall be as per clause (e) of sub-rule (12) of rule 115 of the said rules.

II. Mass emission standards (Bharat Stage IV) for two wheeler with Spark Ignition engines, other than those specified in para A.I above: (vehicles with cc<50 and Vmax< 50 km/hr):

The mass emission standards

Table 2

Pollutant	TA=COP norms (g/km)	Deterioration Factor (D.F.)
(1)	(2)	(3)
CO	0.75	1.2
HC + Nox	0.75	1.2

Notes :-

1. For vehicle operating on CNG mode, the provisions of rule 115-B shall be applicable.
2. For vehicles operating on LPG mode, the provisions of rule 115-C shall be applicable.
3. Gasoline or CNG or LPG vehicle specified herein shall comply with the provisions of clause (i) of sub-rule (2) of rule 115.
4. The reference fuel for gasoline vehicle shall be as specified in Annexure IV-J of the said rules and reference fuel for CNG and LPG shall be as available commercially.
5. The specification of commercial gasoline shall be as specified in Annexure IV-N of the said rules and for the areas other than those specified in clause (a) of sub-rule (15) of rule 115 of principal rules commercial gasoline shall be as per Bureau of Indian Standards specification IS: 2796-2008 for gasoline. The specification for commercial CNG and LPG shall be as notified from time to time.
6. The provision of clauses (a), (c), (i), (e) and (f) of sub-rule 115, except the provision therein, shall be applicable to the said vehicle.

B. Two wheeled vehicles fitted with diesel engines-

^{90a}[(17)] The mass emission standards (Bharat Stage IV) for three wheelers: Mass emission standards (Bharat Stage IV) for new vehicle models of

^{90a}. Inserted by G.D.R. 487(E), dated 12-6-2015 (w.e.f. 12-6-2015)

three wheelers manufactured on or after the 1st April, 2016 and for existing vehicle models of three wheeler manufactured on or after 1st April, 2017:

A. Three wheelers fitted with gasoline engine:

Table 1

CO	HC + NOx		
	If the evaporative emission complies with 2.0 g/test		If the evaporative emission complies with 6.0 g/test
(1)	(2)	(3)	(4)
TA = COP norms (g/km)	0.94	0.94	0.74
D.F. (Deterioration Factor)	1.2	1.2	1.2

B. Three wheelers fitted with Compressed Natural Gas (CNG) or Liquefied Petroleum Gas (LPG) engine:

Table 2

	CO	HC + NOx
(1)	(2)	(3)
TA = COP norms (g/km)	0.940	0.940
D.F. (Deterioration Factor)	1.2	1.2

C. Three wheelers fitted with compression ignition engine:

Table 3

	CO	HC + NOx	PM
(1)	(2)	(3)	(4)
TA = COP norms (g/km)	0.380	0.380	0.0425
D.F. (Deterioration Factor)	1.1	1.0	1.2

Explanation.- For the purposes of this clause, it is clarified that, -

- (i) For vehicles operating on compressed natural gas mode, the provisions of rule 115-B shall be applicable.
- (ii) For vehicles operating on liquefied petroleum gas mode the provisions of the rule 115-C shall be applicable;

(iii) The provisions of clauses (a), (c), (d), € of sub-rule (12), except the proviso therein at the end of that sub-rule, shall be applicable;

(iv) The reference fuel shall be as specified in Annexure IV-J for vehicles equipped with gasoline and Annexure IV-K for vehicles equipped with diesel engines and reference fuel for compressed natural gas and liquefied petroleum gas shall be as available commercially;

(v) The specification of commercial gasoline and diesel shall be as specified in Annexure IV-N and Annexure IV-O, respectively and for the areas other than those specified in clause (a) of sub-rule (15), commercial fuel shall be as per the Bureau of Indian Standards specification Is: 2796-2008 (Amendment No. 1-January, 2008) for gasoline and IS 1460:2005 (fifth revision) for diesel;

(vi) Specification for commercial compressed natural gas and liquefied petroleum gas shall be as notified from time to time;

(vii) Conformity of production (COP) test procedure shall be as described in MoRTH/CMVR/TAP-115/116 as amended from time to time;

(viii) Gasoline or compressed natural gas or liquefied petroleum gas vehicles specified herein shall comply with the provisions of clause (i) of sub-rule(2);

(ix) Diesel vehicles specified herein shall comply with the provisions of clause (ii) of sub-rule (2);

(x) Crank case ventilation for gasoline driven vehicles system shall not permit the emission of any of the crank case gases into the atmosphere;

(xi) Evaporative emission for gasoline driven vehicles shall not be more than 2.0 g/test or 6.0 g/test, depending on whether the norm for Hc + Nox adopted by manufacturer is from column (3) or column (4), respectively, of Table 1 of mass emission norms and the test procedure shall be as per MoRTH/CMVR/TAP-115/116, as amended from time to time.]

^{90b}[(17A) Mass emission standards:(Bharat Stage IV) for quadricycle (L7), shall be as under:-

Table 1

[Fitted with gasoline or compressed natural Gas (CNG) or Liquefied Petroleum Gas (LPG) engine]

	TA=COP norms			EVAP (g/test)	OBD
	CO(g/km)	HC(g/km)	NOX(g/km)		
Limit	2.0	0.55	0.25	< = 2.0	Stage I
DF	1.3	1.2	1.2	-	-

Table 1 (fitted with compression ignition engine)

	TA=COP norms				OBD
	CO(g/km)	HC(g/km)	NOX (g/km)	PM(g/km)	
Limit	1.0	0.10	0.55	0.08	Stage I
DF	1.3	1.2	1.2	1.1	-

Quadricycle shall be equipped with On Board Diagnostic (OBD) systems for emission control which shall have the capability of identifying the likely area of malfunction by means of fault codes stored in computer memory for vehicles manufactured.

Table 2

[On-Board Diagnostic-Stage 1]

Monitoring Items	All Positive ignition vehicles	All Compression ignition vehicles
Oxygen (O ₂) sensor	✓	-
Secondary Air System, if provided	✓	-
Electronic fuel injection system	-	✓
Coolant temperature	✓	✓
EGR,(Exhaust Gas Recirculation), if provided	✓	✓
Emission Control systems / components (Comprehensive Components)	✓	✓
Circuit continuity for all emission related power train components	✓	✓
Distance travelled since MIL (Malfunction Indicator Lamp) ON	✓	✓

Notes - For the purposes of this sub-rule, it is clarified that,-

- (i) The test shall be on Chassis Dynamometer;

^{90b} Inserted by G.S.R 518(E) dated 01-06-2018 (w.e.f 01-06-2018)

(ii) The test procedure and driving cycle shall be as per the MoRTH/CMVR/TAP-115/116. Modified ECE R 40 with maximum speed to 43 km per hour with cold start.

(a) Reference mass : kerb weight + 150 kg;

(b) Number of test cycles: Six (6), with weightage factors firstcycle: 30%; remaining: 70% 0;

(c) Breakdown of cycle: ECE R40 cycle modified for the maximum speed of 43km/hr. Referred to in the MoRTH/CMVR/TAP-115/116;

(iii) A deterioration factor shall be applicable as per Table 1 above for durability.

(a) Provided that the vehicle manufacturer may opt for an ageing test of 80000 kms for evaluation deterioration factor, as provided in MoRTH/CMVR/TAP-115/116;

(iv) (a) Gasoline or CNG or LPG vehicles specified herein shall comply with the provisions of clause (i) of sub-rule (2) of rule 115;

(b) Diesel vehicles specified herein shall comply with clause (ii) of sub-rule (2) of rule 115;

(v) Conformity of Production (COP) frequency and sampling test procedure shall be as provided in the MoRTH/CMVR/TAP-115/116.

Sl.No	Type of Vehicle	Annual production / import		COP frequency
		Exceeding	upto	
(1)	(2)	(3)	(4)	(5)
1	Quadricycle	250 per 6 months	10000 per year	Once every year
2.	Quadricycle	10000per year	75000 per 6 months	Once every 6 months
3.	Quadricycle	75000per 6 months	---	Once every 3 months

Where the production volume in six months is less than 250 per model including its variants, the provisions contained in the provisos to rule 126A shall apply.

(vi) (a) For vehicles operating on compressed natural gas mode, the provisions of rule 115Bshall be applicable;

(b) For vehicles operating on liquefied petroleum gas mode, the provisions of rule 115Cshall be applicable;

(vii) Specification of Reference / Commercial Fuels:

(a) The reference fuel shall be as specified in Annexure IV-J for vehicles equipped with gasoline and Annexure IV-K for vehicles equipped

with diesel engines and reference fuel for compressed natural gas and liquefied petroleum gas shall be as available commercially;

(b) The specification of commercial gasoline and diesel shall be as specified in Annexure IV-N and Annexure IV-O;

(c) Specification for commercial compressed natural gas and liquefied petroleum gas shall be as notified from time to time;

(viii) Crank case ventilation for gasoline driven vehicles system shall not permit the emission of any of the crank case gases into the atmosphere;

(ix) Evaporative emission shall not be more than 2.0g/test from Gasoline driven vehicles. The test procedure shall be as specified in the MoRTH/CMVR/TAP-115/116;

(x) In case of compression ignition engine, engine power shall be measured on engine dynamometer and the measured power shall conform to the power specified in Chapter 1 of Part IV of MoRTH/CMVR/TAP115/116 as amended from time to time. In case of positive ignition engine, engine power shall be measured on engine dynamometer in accordance with the provisions of IS 14599:1999.”.

^{90c} [(18) (i) The Emission Standards for Bharat Stage VI (BS-VI) for category M and N vehicles having Gross Vehicle Weight not exceeding 3500kg, manufactured on or after 1st April 2020 for all models, shall be as under :-

Table 1

Limit Values for M and N Category vehicles fitted with PI & CI Engines: BS VI

		Reference Mass(RM)	Mass of Carbon Monoxide (CO)		Mass of Total Hydrocarbons (THC)		Mass of Non-Methane Hydrocarbons (NMHC)		Mass of Oxides of Nitrogen (NOX)		Combined Mass of Hydrocarbons and Oxides of Nitrogen (THC + NOX)		Mass of Particulate Matter (PM)		Number of Particles (PN)	
		(kg)	L1 (mg/km)		L2 (mg/km)		L3 (mg/km)		L4 (mg/km)		L2 + L3 (mg/km)		L5 (mg/km)		L6 (numbers /km)	
Category	Class		PI	CI	PI	CI	PI	CI	PI	CI	PI	CI	PI	CI	PI	CI
M(M1 & M2)	--	ALL	1000	500	100	-	68	-	60	80	-	170	4.5	4.5	6.0×10^{11}	6.0×10^1
N1	I	$RM \leq 130$	1000	500	100	-	68	-	60	80	-	170	4.5	4.5	6.0×10^{11}	6.0×10^1
	II	$130 < RM \leq R$	18	63	130	-	90	-	75	10	-	195	4.	4.5	6.0	6.0

		<u>M<1705</u>	10	0					5			5		X 10 ¹¹	X 10 ¹
	III	<u>1705<R M</u>	22 70	74 0	160	-	108	-	82 12 5	-	215	4. 5	4.5	6.0 X 10 ¹¹	6.0 X 10 ¹
N2		ALL	22 70	74 0	160	-	108	-	82 12 5	-	215	4. 5	4.5	6.0 X 10 ¹¹	6.0 X 10 ¹

PI — Positive Ignition, CI— Compression Ignition

(3) For positive ignition, particulate mass and matter of particles limit shall apply only to vehicles with direct injection engines.

(4) Until three years after date of implementation for new type approvals and new vehicles, particle number emission limit of $6.0 \times 10^{12} \text{ #/km}$ shall apply to BS VI gasoline direct injection vehicles upon choice of the manufacturer.

Note: This Regulation shall apply to vehicles of categories MI , M2, NI and N2 with a reference mass not exceeding 2,610 kg.

At the manufacturer's request, type approval granted under this Regulation may be extended from vehicles mentioned above to M1, M2, N1 and N2 vehicles with a reference mass not exceeding 2,840 kg and which meet the conditions laid down in this notification.

^{90c}. Inserted by G.S.R.889 (E),dated 16-09-2016 (w.e.f. 16-09-2016).

Table2
Application of Test Requirements for Type-Approval – BS VI

	Vehicles with Positive Ignition Engines including Hybrids										Vehicles with Compression Ignition Engines including Hybrids			
	Mono Fuel						Bi- Fuel ⁽¹⁾				Flex Fuel ⁽¹⁾	Fle x Fu el	M on o Fu el	D ua l Fu el
Reference Fuel	Ga solin (E5)	L P G	CNG / Bio-Methane/ Bio-Gas/ LNG	Hyd rog en (IC E) ³	H ₂ CNG (Hy dro gen + CNG)	Gasoli ne 90 ^d [(E 5)/ (E 10)]	Gasoline ⁹⁰ ^d [(E 5)/ (E 10)]	Gasoline ⁹⁰ ^d [(E 5)/ (E 10)]	Gasoline ⁹⁰ ^d [(E 5)/ (E 10)]	Die sel (B 7)	Di es el (B 7)	Di es el + C N G		
Gaseous Pollutants (Type ¹ Test)	Yes	Y e s	Yes	Yes ²	Yes	Yes(Bo th Fuels)	Yes(Both Fuels)	Yes(Both Fuels) ²	Yes (Both Fuels) ²	Yes (Both Fuels)	Yes	Ye s	Ye s	
Partic	Yes	-	-	-	-	Yes	Yes(Gasoli	Yes(Both	Yes(Both	Yes(Both				

ulate Mass and Particulate Number (Type ¹ Test)	⁴					Yes(Gasoline only)	(Gasoline only)	ne only)	fuels)	Yes	Ye s	Ye s
Idle Emissions (Type II Test)	Yes	Y e s	Yes	-	Yes	Yes(Both Fuels)	Yes(Gasoline Only)	Yes(Both Fuels)	-	-	-	-
Crank case Emissions(Type III Test)	Yes	Y e s	Yes	--	Yes	Yes(gasoline only)	Yes (gasoline only)	Yes(gasoline only)	Yes(gasoline only)	-	-	-
Evaporative Emissions (Type IV test)	Yes	-	-	-	-	Yes(Gasoline only)	Yes (Gasoline only)	Yes(Gasoline Only)	Yes(Gasoline only)	-	-	-
Durability(Type V Test)	Yes	Y e s	Yes	Yes	Yes	Yes(Gasoline only)	Yes(Gasoline only)	Yes (Gasoline Only)	Yes(Gasoline only)	Yes (B7 only)	Ye s	Ye s
In-Service Conformity	Yes	Y e s	Yes	Yes	Yes	Yes(both fuels)	Yes(both fuels)	Yes (Gasoline Only)	Yes(both fuels)	Yes (B7 only)	Ye s	Ye s
On-Board Diagnostics and IUPR m	Yes	Y e s	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Ye s	Ye s
(⁶)CO2 emission and fuel consumption	Yes	Y e s	Yes	Yes	Yes	Yes(both fuels)	Yes(both fuels)	Yes (both fuels)	Yes(both fuels)	Yes (both fuels)	Ye s	Ye s
Smoke Opacity	-	-	-	-	-	-	-	-	-	Yes	Ye s	-
Engine Power	Yes	Y e s	Yes	Yes	Yes	Yes(both fuels)	Yes(both fuels)	Yes (both fuels)	Yes(both fuels)	Yes	Ye s	Ye s

(¹) When a bi-fuel vehicle has flex fuel option, both test requirements are applicable. Vehicle tested with E100 need not to be tested for E85.

(²) Only NOx emissions shall be determined when the vehicle is running on Hydrogen.

(³) Reference Fuel is 'Hydrogen for Internal Combustion Engine' as Specified in Annexure IV-W.

⁽⁴⁾ For Positive ignition, particulate mass and number limits for vehicles with positive ignition engines including hybrids shall apply only to vehicles with direct injection engines.
⁽⁵⁾ Vehicle fuelled with Bio diesel blends up to 7% will be tested with reference diesel (B7) & vehicles fuelled with Bio diesel blends above 7% will be tested with respective blends.
⁽⁶⁾ CO₂ emission and fuel consumption shall be measured as per procedure laid down in AIS 137 and as amended time to time.

^{90d} Substituted by G.S.R.881 (E),dated 26-11-2019, for "E5" (w.e.f. 26-11-2019).

Notes.-

- (1) The test shall be on Chassis Dynamometer.
- (2) The test including driving cycle shall be as provided in sub-rule (10) with the modifications that-
 - (i) the exhaust gas sampling should start at the initiation of the engine start up procedure referred to in Annexure IV-E and as amended from time to time as per AIS-137;
 - (ii) the driving cycle shall be at a maximum speed of 90 km/hour referred to in Annexure IV-E and as amended from time to time as per AIS-137.
- (3) There shall be no relaxation of norms for Conformity of Production (COP) purposes and procedure for compliance shall be as per AIS137 as amended from time to time.
- (4) Specifications for Reference Fuels shall be as below:-
 - (a) Reference natural gas fuel used in Natural Gas or Bio-Methane mono-fuel or bi-fuel vehicles shall be as per Annexure IV-L (G20, G23 and G25).
 - (b) Reference LPG fuel used in LPG mono-fuel or bi-fuel vehicles shall be as per Annexure IV M (Fuel A and Fuel B), however, in case of non-availability of reference fuels for CNG / LPG, the commercially available CNG as per BIS 15958:2012 and LPG as per BIS 14861:2000 as amended from time to time shall be used for the purpose of Type Approval and Conformity of Production.
 - (c) The reference ethanol fuel (E85) shall be as per the Annexure IV-Q.

^{90e}[(d) The reference Gasoline fuels (E5) or (E10) (as specified by the manufacturer), shall be as specified in Annexure IV-X or Annexure IV-XA, respectively.]

^{90e} Substituted by G.S.R.881 (E),dated 26-11-2019, for "E5" (w.e.f. 26-11-2019).

(e) The Reference Diesel fuel (B7) shall be as specified in Annexure IV-T.

(f) Hydrogen Fuel vehicles shall be tested with reference fuel specified in the Annexure IV-W to said rules.

(g) The reference fuel Biogas (Bio-methane) shall be as per IS 16087:2013 and as amended time to time.

(5) Crankcase ventilation system shall not permit the emission of any of the crankcase gases in to the atmosphere.

(6) Evaporative emission shall not be more than 2.0g/test from Gasoline fuelled vehicles. The evaporative emission test procedure for gasoline fuelled vehicles shall be as per the procedure specified in AIS 137 and as amended from time to time.

(7) The Conformity of Production (COP) testing procedure shall be as described in AIS 137 and as amended from time to time.

(8) Conformity of Production (COP) frequency and samples as under :-

(i) The Conformity of Production period for each vehicle model including its variant(s) shall be once a year.

(ii) Where production volume in six months is less than 250 per model including its variants, the provisions contained in the provisos to rule 126-A shall apply.

(iii) All these tests shall be conducted with the reference fuel as specified in this sub-rule. However, at the manufacturer's request, test may be carried out with commercial fuel.

(iv) For vehicles approved as per this sub-rule, at least 50% of Vehicle models, rounded to nearest integer value, produced from particular plant per year shall be selected randomly from dealer's location or warehouse.

(9) Specifications for Commercial Fuels as under :-

(i) The Commercial Gasoline fuel shall be as per Annexure IV-U and as amended from time to time.

(ii) Specification for commercial CNG and commercial LPG shall be in accordance with BIS 15958:2012 and as per BIS 14861:2000 respectively and as amended from time to time.

(iii) Biodiesel used in commercial Diesel shall be as per IS 15607 as amended from time to time.

(iv) Specification for Commercial Diesel fuel shall be as per Annexure IV-V and as amended from time to time.

(v) Specifications for commercial E85 shall be as specified in accordance with the Indian Standards as amended from time to time.

(vi) Specification for commercial Biogas (Bio-methane) shall be as per IS 16087:2013 and as amended time to time.

(10) Specifications of NOx reduction agent AUS 32 (Aqueous Urea Solution) shall conform to Part 1 and Part 2 of ISO 22241-2006 or DIN standard – DIN V 70070.

(11) For Diesel vehicles, the emission of visible pollutants (smoke) shall not exceed the limit value of smoke density, when expressed as light absorption coefficient for various nominal flows as given in Annex I to sub-rule (9) of rule 115 when tested at constant speeds over the full load. These smoke limits are without correction factor and engines are to be tested with conditioned air supplied to the engine to maintain atmospheric factor at 0.98 to 1.02.

(12) The engine power shall be measured on engine dynamometer and the measured power shall conform to the power specified in AIS 137 as amended from time to time, when tested as per the procedures laid down in AIS 137 as amended from time to time.

(13) Type II Test: Vehicles fitted with PI engines specified in this sub-clause shall comply with the provisions of clause (i) of sub-rule (2) of rule 115 as applicable.

(14) Free Acceleration Smoke: Vehicles fitted with CI engines specified in this sub-clause shall comply with the provisions of clause (ii) of sub-rule (2) of rule 115 as applicable.

(15) Deterioration Factor shall be as given in the following Table :-

Table**Deterioration Factor shall be as given below: BS VI**

Engine Category	Assigned Deterioration Factor						
	CO	THC	NMHC	NOx	HC+NOx	Particulate Matter (PM)	Particle Number (PN)
Positive Ignition	1.5	1.3	1.3	1.6	-	1.0	1.0
Compression Ignition	1.5	-	-	1.1	1.1	1.0	1.0

(i) Alternatively, the vehicle manufacturer may opt for a vehicle ageing test of 1,60,000 km or bench ageing durability test, for evaluating the Deterioration factor as per AIS 137 and as amended from time to time.

(ii) This test may be performed by driving vehicle on a test track, on the road, or on a chassis dynamometer or Engine Test Bench as per AIS 137

(iii) The maximum lap speed at 10th lap and at 11th lap shall be 72 km/hour and 90 km/hour respectively.

(iv) The above ageing test should be carried out by the approved test agency specified in rule 126.

(16) The vehicles shall be equipped with On-Board Diagnostic (BS VI - OBD) systems for emission control which shall have the capability of identifying the likely area of malfunction by means of fault codes stored in computer memory as per the procedure laid down in AIS 137 and as amended from time to time when that failure results in an increase in emission above the limits given in the following Tables below:—

(i) OBD Threshold for BS VI vehicles manufactured on or after 1st April 2020:

**Table 1
On-Board Diagnostic (BS VI- OBD-I) Threshold: BS VI**

		Reference Mass(RM) (kg)	CO		NMHC		NOx		PM	
			PI	CI	PI	CI	PI	CI	PI ¹	CI
Category	Class									
M(MI & M2)	--	ALL	1900	1750	170	290	150	180	25	25
N1	I	RM<1305	1900	1750	170	290	150	180	25	25
	II	1305<RM<1705	3400	2200	225	320	190	220	25	25
	III	1705<RM	4300	2500	270	350	210	280	30	30
N2	ALL		4300	2500	270	350	210	280	30	30

(1)For positive ignition, particulate mass limits apply only to vehicles with direct injection engines

(ii) OBD Threshold for BS VI vehicles manufactured on or after 1st April 2023:

**Table 2
On-Board Diagnostic (BS VI OBD-II) Threshold: BS VI**

Category	Class	Reference Mass(RM) (kg)	CO		NMHC		NOx		PM	
			PI	CI	PI	CI	PI	CI	PI ¹	CI
M(MI & M2)	--	ALL	1900	1750	170	290	90	140	12	12
N1	I	RM<1305	1900	1750	170	290	90	140	12	12
	II	1305<RM<1705	3400	2200	225	320	110	180	12	12
	III	1705<RM	4300	2500	270	350	120	220	12	12
N2	ALL		4300	2500	270	350	120	220	12	12

(1)For positive ignition, particulate mass limits apply only to vehicles with direct injection engines

(17) In-use performance ratio (IUPR) for BS VI vehicles manufactured on or after 1st April 2023, the in-use performance ratio (IUPR) of a specific monitor M of the OBD systems shall be:

$$\text{IUPRM} = \text{Numerator}/\text{Denominator}$$

(i) Comparison of Numerator and Denominator gives an indication of how often a specific monitor is operating relative to vehicle operation. Detailed requirements for tracking IUPR are given in AIS 137.

(ii) If, according to the requirements specified in AIS 137, the vehicle is equipped with a specific monitor M, IUPRM shall be greater or equal to 0.1 for all monitors M.

(18) In service compliance of vehicles shall be as per procedure laid down in AIS137 and as amended time to time.

(19) During type approval and COP applicable from 1st April, 2020, real world driving cycle emission measurement using PEMS shall be carried out for data collection and from 1st April, 2023 real world driving cycle emission conformity shall be applicable. The detailed procedure is laid down in AIS137 and as amended from time to time.

(ii) The Emission Standards for Bharat Stage VI (BS-VI) for category M and N vehicles having Gross Vehicle Weight exceeding 3500kg., manufactured on or after 1st April 2020 for all models, shall be as under :-

Table 1
Limit values for M&N category vehicles: BS-VI

	Limit values							
	CO (mg/k Wh)	THC (mg/k Wh)	NMHC(mg/ kWh)	CH4(mg/k Wh)	NOX(mg/k Wh)	NH3(p pm)	PM mass (mg/k Wh)	PM number (numbers/ kWh)
WH SC (CI)	1500	130	----	----	400	10	10	8.0 x 1011
WH TC (CI)	4000	160	-----	-----	460	10	10	6.0 x 1011
WH TC (PI)	4000	----	160	500	460	10	10	6.0 x 1011

Notes:

PI = Positive Ignition

CI = Compression Ignition

For M1, N1, M2 & N2 category vehicles with a reference mass not exceeding 2840 kg., at the manufacturer's request, type approval may be granted as per the sub-rule (18) (i) of this rule.

If a vehicle is tested for type approval on Chassis Dynamometer having Reference Mass up to 2610 kg, manufacturer may seek type approval extensions up to reference mass of 2840 kg for its variants exceeding GVW of 3500 kg. In such cases mass emission testing on Engine Dynamometer shall not be required.

Table 2
Applicability of Test Requirements for BS-VI

	Positive-ignition engines					Compression-ignition engines			Dual fuel engines
	Gasoline ^{90d} [(E 5)/(E10)]	CNG / Biometha ne/Bio- Gas/LNG	L P G	E 8 5	HCNG (Hydrogen +CNG)	Diesel (B7)	Ethanol(ED95)	Biodiesel blend s up to 100 % ⁽¹⁾	Diesel +(CNG/ LNG)
Gaseous Pollutant s	Yes	Yes	Ye s	Ye s	Yes	Yes	Yes	Yes	Yes ⁽²⁾
Particula te Mass (PM)	Yes	Yes	Ye s	Ye s	Yes	Yes	Yes	Yes	Yes ⁽²⁾
Particula te Number(PN)	Yes	Yes	Ye s	Ye s	Yes	Yes	Yes	Yes	Yes ⁽²⁾
Durabilit y	Yes	Yes	Ye s	Ye s	Yes	Yes	Yes	Yes	Yes ⁽²⁾
OBD	Yes	Yes	Ye s	Ye s	Yes	Yes	Yes	Yes	Yes ⁽²⁾
Off Cycle Emission (WNTE)	--	--	--	--	--	Yes	Yes	Yes	Yes ⁽²⁾
PEMS	Yes	Yes	Ye s	Ye s	Yes	Yes	Yes	Yes	Yes ⁽²⁾

Demonstration test at Type Approval			s	s					
In-Service Conformity	Yes ⁽²⁾								

⁽¹⁾The vehicles/ engines fuelled with bio diesel blends up to 7% shall be tested with reference diesel (B7) and vehicles fuelled with Bio diesel blends above 7% will be tested with respective blends.

⁽²⁾The test applicability requirements for dual fuel engine is depending on the Gas Energy Ratio (GER) measured over the hot part of the WHTC test-cycle. GER classification shall be as per AIS 137 and as amended from time to time.

Notes.-

(1) The test shall be done on engine dynamometer.

(2) In case of vehicles equipped with Compression Ignition engines, the gaseous and particulate emissions shall be measured as per WHSC and WHTC cycles as per procedure described in AIS 137 as amended from time to time.

(3) In case of vehicles equipped with positive Ignition engines, the gaseous and particulate emissions shall be measured as per WHTC cycle as per procedure described in AIS 137and as amended from time to time.

(4) Specifications for Reference fuels are as below:-

(a) Reference natural gas fuel used in Natural Gas or Bio-Methane mono-fuel or bi-fuel vehicles shall be as per Annexure IV-L (G20, G23 and G25)

(b) Reference LPG fuel used in LPG mono-fuel or bi-fuel vehicles shall be as per Annexure IV M (Fuel A and Fuel B). However, in case of non-availability of reference fuels for CNG / LPG, the commercially available CNG as per BIS 15958:2012 and LPG as per BIS 14861:2000 as amended from time to time shall be used for the purpose of Type Approval and Conformity of Production.

(c) The reference ethanol fuel (ED95) shall be as specified in Annexure IV-R.

^{90e}[(d) The reference Gasoline fuels (E5) or (E10) (as specified by the manufacturer), shall be as specified in Annexure IV-X or Annexure IV-XA, respectively.

(e) The Reference Diesel fuel (B7) shall be as specified in Annexure IV-T.

(f) The reference fuel Biogas (Bio-methane) shall be as per IS 16087:2013 and as amended time to time.

(5) The Conformity of Production (COP) testing procedure shall be as described in AIS 137 as amended from time to time.

(6) The Conformity of Production (COP) frequency and samples shall be as under:-

(i) The conformity of Production period for each engine model including its variant(s) shall be once a year.

(ii) Where production volume in six month is less than 250 per model including its variant(s), the provisions contained in the provisos to rule 126-A shall apply.

(7) Specifications for Commercial fuels shall be as under:-

a. The Commercial Gasoline fuel shall be as per Annexure IV-U and as amended from time to time.

b. Specification for commercial CNG and commercial LPG shall be in accordance with BIS 15958:2012 and as per BIS 14861:2000 respectively and as amended from time to time.

c. Biodiesel used in commercial Diesel shall be as per IS 15607 as amended from time to time.

d. Specification for Commercial Diesel fuel up to 7% of bio diesel blend shall be as per Annexure IV-V and as amended from time to time.

e. Specifications for commercial E85 and ED95 shall be as specified in accordance with the Indian Standards as amended from time to time.

f. Specification for commercial Biogas (Bio-methane) shall be as per IS 16087:2013 and as amended time to time.

(8) For CI engine vehicles, the emission of visible pollutants (smoke) shall not exceed the limit value of smoke density, as per Annexure I to sub-rule (9) of rule 115. These smoke limits are without correction factor and

engines are to be tested with conditioned air supplied to the engine to maintain atmospheric factor of 0.98 to 1.02.

(9) The engine power shall be measured on engine dynamometer and the measured power shall conform to the power specified and tested as per procedures prescribed in AIS 137 as amended time to time.

(10) Idle emissions and Smoke Density shall be as under:-

a. The vehicles equipped with PI engine specified in this sub-rule shall comply with the provisions of clause (i) of sub-rule (2) of rule 115.

b. The Vehicles equipped with CI engine specified in this sub- rule shall comply with the provisions of clause (ii) of sub-rule (2) of rule 115.

(11) Deterioration Factors.-

(i) Deterioration factors shall be as given in the Table below:

**Table 1
Deterioration Factors for BS-VI**

Test cycle	CO	THC1	NMHC2	CH42	NOx	NH3	PM mass	PM number
WHTC	1.3	1.3	1.4	1.4	1.15	1.0	1.05	1.0
WHSC	1.3	1.3	---	---	1.15	1.0	1.05	1.0

⁽¹⁾Applies in case of a compression ignition engine.

⁽²⁾Applies in case of a positive ignition engine.

(ii) Alternatively, the vehicle manufacturers may opt for evaluation of deterioration factor over normal useful life period as per procedure described in AIS 137and as amended time to time.

Useful life period and minimum service accumulation period for evaluation of deterioration factor given in Table below:-

**Table 2
Minimum service accumulation period – BS-VI**

Category of vehicle in which engine will be installed	Useful Life Period	Minimum service accumulation period
Category N1 vehicles	1,60,000 km or 5 years	1,60,000 km
Category N2 vehicles	3,00,000 km or 6 years	1,88,000 km
Category N3 Vehicles with GVW equal to or less than 16,000 kg	3,00,000 km or 6 years	1,88,000 km
Category N3 Vehicles with GVW above 16,000 kg	7,00,000 km or 7 years	2,33,000 km
Category M2 vehicles	1,60,000 km or 5 years	1,60,000 km
Category M3 Vehicles with GVW equal to or less than 7,500 kg	3,00,000 km or 6 years	1,88,000 km
Category M3 Vehicles with GVW above 7,500 kg	7,00,000 km or 7 years	2,33,000 km

The evaluation of deterioration factor test shall be carried out by the approved test agency specified in rule 126.

(12) (a) During type approval and COP applicable from 1st April, 2020, emission measurement on vehicles using PEMSShall be carried out on road for data collection and from1st April, 2023 in-service conformity factor shall be applicable. The detailed procedure is laid down in AIS137 and as amended from time to time

(b) The type approval vehicle used for the PEMS demonstration test shall be representative for the vehicle category intended for the installation of the engine system. The vehicle may be a prototype vehicle or an adapted production vehicle.

(c) For PEMS demonstration test at type approval, vehicle shall meet the requirements of in-service compliance from 1st April, 2023.

(13) The vehicles specified in this sub-clause shall meet the following World Not-To-Exceed (WNTE) Off-cycle laboratory testing limits for gaseous and particulate exhaust emissions, and as per procedure laid down in AIS 137 and as amended time to time:-

Test cycle	CO mg/kWh	THC mg/kWh	NOx mg/kWh	PM mg/kWh
WNTE	2000	220	600	16

(14) The vehicles specified in this sub-clause manufactured on or after 1st April, 2023 shall have the capability of assessing the in-use performance of on-board diagnostic, as per procedure laid down in AIS 137 and as amended time to time.

(15) The vehicles specified in this sub-clause fitted with engine, which rely on the use of a reagent in order to reduce emissions, shall ensure the correct operation of NOx control measures, as per procedure laid down in AIS 137 and as amended time to time.

(16) The vehicles specified in this sub- rule shall be equipped with an On-Board Diagnostic system (BS VI OBD-I and BS-VI OBD-II) for emission control which shall have the capability of identifying the likely area of the malfunctions by means of fault codes stored in computer memory and communicating that information off-board, as per procedure described in AIS 137, when that failure results in an increase in emission above the limits given in the following Tables below:-

(a) BSVI- OBD-I threshold for BS VI vehicles manufactured on or after 1st April 2020 shall be as given below:-

**Table 1
OBD threshold Limits: (BS-VI OBD-I)**

	Limit in mg/kWh	
	NOx	PM Mass
Compression ignition engines	1500	Performance Monitoring ⁽¹⁾
Positive Ignition engines	1500	--

⁽¹⁾ Performance monitoring for wall-flow diesel particulate filter shall be as per AIS-137 and as amended time to time.

(b) BS-VI-OBD-II threshold for BS VI vehicles manufactured on or after 1st April 2023 shall be as given below:-

**Table 2
OBD threshold Limits: (BS-VI OBD-II)**

	Limit in mg/kWh		
	NOx	PM Mass	C O
Compression ignition engines	1200	25	--
Positive Ignition engines	12--	--	7500

At the manufacturer's request type approval may be granted for compliance to BS-VI OBD-II requirements before its implementation

^{90f}[Provided that nothing in this sub-rule shall apply to the motor vehicle used for Government Purposes relating to the defence of the country which is registered under section 60 of the Act and to the special purpose vehicle (armoured and other specialised vehicle) used for operational purposes for the maintenance of law and order and internal security].

(19) (i) The Emission Standards for Bharat Stage-VI (BS-VI) for two wheelers vehicle models manufactured on or after 1st April 2020 shall be as per Tables below:-

**Table 1
Limit Values for Two wheelers fitted with PI & CI engines: BSVI**

Vehicle Class	BS VI Emission Norms								
	CO mg/km	HC mg/km	NOx mg/km	NMHC mg/km	PM mg/km	EVAP mg/test	OBD	Durability mileage (km) Type v	
PI Vehicles	1 & 2-1	1000	100	60	68	4.5*	1500	STAGE II	20000
	2-2	1000	100	60	68	4.5*			35000
	3-1 & 3-2	1000	100	60	68	4.5*			35000
CI Vehicles	All	500	100	90	68	4.5*	-		
	DF (for all classes)	1.3	1.3 (SI)1.1 (CI)	1.3 (SI)1.1 (CI)	1.3 (SI)1.1 (CI)	1.0 (CI)	300**	-	-

^{90f} Inserted by G.S.R 547(E) dated 01-08-2019 (w.e.f 01-08-2019)

* Applicable to gasoline direct injection (DI) engines only.

**Fixed DF of 300 mg/test shall be added to SHED test results.

Alternative to fixed DF, manufacturer may opt for ageing of evaporative emission control devices as per procedure specified in AIS 137 and as amended time to time.

Table 2
Application of Test Requirements for Type-Approval: BS-VI

	Vehicle with SI engines including hybrids										Vehicles with CI engines including hybrids		
	Mono Fuel					Bi- Fuel ⁽¹⁾				Flex Fuel ⁽¹⁾	Flex Fuel	Mo no Fu el	Du al Fu el
Reference Fuel	Gas olin e (E5)	L P G	CNG / Bio- Methan e/Bio- Gas/L NG	Hydr ogen	H ₂ CNG (Hydroge n + CNG)	Gasoli ne(E5)	Gasoli ne(E5)	Gasoli ne(E5)	Gasoli ne(E5)	Dies el (B7)	Die sel (B 7)	Die sel + CN G	
						LPG	CNG /Bio- Methane	Hydro gen	Ethano l(E85) /(E10 0)	Bio- Dies el up to 100 % ⁽¹⁾			
Gaseous Pollutants (Type ¹ Test)	Yes	Y es	Yes	Yes	Yes	Yes(Bot h Fuels)	Yes(Bot h Fuels)	Yes (Both Fuels)	Yes (Both Fuels)	Yes (Both Fuels)	Yes	Yes	
Particulate Mass (Type ¹ Test)	Yes	No	No	No	No	Yes(Ga soline only)	Yes (Gasoli ne only)	Yes(Ga soline only)	Yes (Gasoli ne only)	Yes	Yes	Yes	
Idle Emissions (Type II Test)	Yes	Y es	Yes	No	Yes	Yes(Bot h Fuels)	Yes(Bot h Fuels)	Yes(Ga soline Only)	Yes (Both Fuels)	Yes (B7 Only)	Yes	Yes	
Crankcase Emissions(Type III Test)	Yes	Y es	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Evaporative Emissions (Type IV test)	Yes	No	No	No	No	Yes(Ga soline only)	Yes (Gasoli ne only)	Yes(Ga soline Only)	Yes (Gasoli ne only)	No	No	No	
Durability(Type V Test)	Yes	Y es	Yes	Yes	Yes	Yes(Ga soline only)	Yes(Ga soline only)	Yes (Gasoli ne Only)	Yes(Ga soline only)	Yes (B7 only)	Yes	Yes	
⁽⁴⁾ CO ₂ emission and fuel	Yes	Y es	Yes	Yes	Yes	Yes(bot h fuels)	Yes(bot h fuels)	Yes(bot h fuels)	Yes(bot h fuels)	Yes(both fuels)	Yes	Yes	

consumption											
On-Board Diagnostics	Yes	Yes	Yes	Yes	Yes	Yes(Gasoline only)	Yes(Gasoline only)	Yes(Gasoline only)	Yes(B7 only)	Yes	Yes
Smoke Opacity	No	No	No	No	No	No	No	No	Yes(B7 only)	Yes	No
((1)Vehicles fuelled with bio diesel blends up to 7% shall be tested with reference diesel (B7) and vehicles fuelled with Bio diesel blends above 7% will be tested with respective blends.											
((2)In case of PI engines, applicable only to vehicles with direct Injection engines.											
((3) Vehicles models and variants having option for Bi-fuel operation and fitted with limp-home gasoline tank of capacity not exceeding two litres on two wheelers shall be exempted from test in gasoline mode.											
((4)CO ₂ emission and fuel consumption shall be measured as per procedure laid down in AIS 137 and as amended time to time.											
When bi-fuel vehicle is combined with a flex fuel vehicle, both test requirements are applicable. Vehicle tested with E100 need not to be tested with E85.											

Notes. -

- (1) The test shall be on Chassis Dynamometer.
- (2) Classification of vehicles and weighting factor for the final emission result shall be as given below:-

**90e [Table
Classification of vehicles and weighting factor**

Sl.No.	Class	Definition of class	WMTC Cycles	Weighting factors for final emission results
(1)	(2)	(3)	(4)	(5)
1.	Class 1	Vehicles that fulfill the following specifications belong to class 1: 50 cm ³ < engine capacity < 150 cm ³ and Vmax _ 50 km/h or Engine capacity < 150 cm ³ and 50 km/h < Vmax < 100 km/h	Part1 Reduced Speed cold followed by Part 1 Reduced Speed Hot	Part1 Reduced Speed Cold shall be 30% and Part1 Reduced Speed Hot shall be 70%
2.	Sub-Class 2-1	Vehicles that fulfill the following specifications belong to class 2-1: Engine capacity < 150cm ³ and 100 km/h _ Vmax < 115 km/h or Engine capacity _ 150cm ³ and V max < 115 km/h	Part1 Reduced Speed cold followed by Part 2 Reduced Speed Hot	Part1 Reduced Speed Cold shall be 30% and Part 2 Reduced Speed Hot shall be 70%
3.	Sub-Class 2-2	Vehicles that fulfill the following specifications belong to class 2-2: 115 km/h _ Vmax < 130 km/h.	Part1 cold followed by Part 2 Hot	Part1 cold shall be 30% and Part 2 hot shall be 70%
4.	Sub-Class 3-1	Vehicles that fulfill the following specifications belong to class 3-1: 130 km/h _ Vmax <140 km/h	Part1 cold followed By Part 2 Hot followed by Part 3 reduced speed Hot	Part 1 cold shall be 25% Part 2 Hot shall be 50% And Part 3 reduced speed hot shall be 25%
5.	Sub-Class 3-2	Vehicles that fulfill the following specifications belong to class 3-2: Vmax > 140 km/h.	Part1 cold followed By Part 2 Hot followed by Part 3 Hot	Part 1 cold shall be 25% Part 2 Hot shall be 50% And Part 3 Hot shall be 25%

- (3) The test procedure and driving cycle for all test types including alternative durability and OBD shall be as per AIS 137 and as amended time to time.

- (4) Specification of Reference Fuels shall be as under:-

- a) The Reference Gasoline fuel (E5) shall be as specified in Annexure IV-X.
 - b) The reference ethanol fuel (E85) shall be as per Annexure IV-Q.
 - c) The Reference Diesel fuel (B7) shall be as specified in Annexure IV-T.
 - d) The reference ethanol fuel (E100) shall be as per Annexure IV-S
 - e) Reference natural gas fuel used in Natural Gas or Bio-Methane mono-fuel or bi-fuel vehicles shall be as per Annexure IV-L (G20, G23 and G25).
 - f) Reference LPG fuel used in LPG mono-fuel or bi-fuel vehicles shall be as per Annexure IV M (Fuel A and Fuel B). However, in case of non-availability of reference fuels for CNG / LPG, the commercially available CNG as per BIS 15958:2012 and LPG as per BIS 14861:2000 as amended from time to time shall be used for the purpose of Type Approval and Conformity of Production.
 - g) Hydrogen Fuel vehicles shall be tested with reference fuel specified in the Annexure IV-W to said rules.
 - h) The reference fuel Biogas (Bio-methane) shall be as per IS 16087:2013 and as amended time to time.
- (5) Specifications of Commercial Fuels shall be as under:-
- a) The Commercial Gasoline fuel blend shall be as per Annexure IV-U.
 - b) Specification for commercial CNG and commercial LPG shall be in accordance with BIS 15958:2012 and as per BIS 14861:2000 respectively.
 - c) Biodiesel used in commercial Diesel shall be as per IS 15607.
 - d) Specification for Commercial Diesel fuel shall be as per Annexure IV-V.

e) Specifications for commercial E85 shall be as specified in accordance with the Indian Standards.

f) Specification for Biogas (Bio-methane) shall be as per IS 16087:2013 and as amended time to time.

(6) Gasoline/CNG/LPG vehicles specified herein shall comply with the provisions of clause (i) of sub-rule (2) of rule 115. The Vehicle equipped with CI engine specified in sub rule shall comply with the provision of clause (ii) of sub-rule (2) of rule 115. For vehicles fitted with CI engine, the emission of visible pollutants (smoke) shall not exceed the limit value of smoke density, as per Annexure I to sub-rule (9) of rule 115. These smoke limits are without correction factor and engines are to be tested with conditioned air supplied to the engine to maintain atmospheric factor of 0.98 to 1.02.

(7) Crankcase ventilation system shall not permit the emission of any of the crankcase gases in to the atmosphere.

(8) Alternatively, to the fixed DF mentioned in Table 1 of this sub-rule, the vehicle manufacturers may opt for evaluation of deterioration factor as per procedure described in AIS 137 and as amended time to time.

(9) Conformity of Production (COP) test procedure shall be as per clause (e) of sub-rule (12) of rule 115. For 2W vehicles, at least 50% of Vehicle models produced from particular plant shall be selected randomly from dealer's location or warehouse.

(10) The engine power shall be measured on engine dynamometer and measured power shall conform to the power specified and tested as per procedure prescribed in AIS 137 and as amended time to time.

(11) The vehicle presented for Type approval shall have been run for at least 1000 km before the test.

(12) The Two wheeler vehicles shall be equipped with On-Board Diagnostic (OBD) systems for emission control which shall have the capability of identifying the likely area of malfunction by means of fault codes stored in computer memory as per the procedure laid down in AIS 137.

The On-Board Diagnostic (OBD) systems for emission control shall be as specified in the following Tables:

Table 1
OBD Functions and associate

Monitoring	Items OBD Stage I (BS VI) 1st April, 2020	OBD Stage II (BS VI) 1st April, 2023
Circuit continuity for all emission related power train component (if equipped)	✓	✓
Distance travelled since MIL(Malfunction indicator lamp) ON	✓	✓
Electrical disconnection of Electronic evaporative purge control device (if equipped and if active)	✓	✓
Catalytic converter monitoring	X	✓
EGR system monitoring	✓	✓
Misfire detection	X	✓
Oxygen sensor deterioration	X	✓

(13) In-use performance ratio (IUPR) for BS VI vehicles manufactured on or after 1st April 2023, the in-use performance ratio (IUPR) of a specific monitor M of the OBD systems shall be:

$$\text{IUPRM} = \text{Numerator}/\text{Denominator}$$

Comparison of Numerator and Denominator gives an indication of how often a specific monitor is operating relative to vehicle operation. Detailed requirements for tracking IUPR are given in AIS 137.

If, according to the requirements specified in AIS 137, the vehicle is equipped with a specific monitor M, IUPRM shall be greater or equal to 0.1 for all monitors M.

Table 2
On-board (OBD) diagnostics emission thresholds for BSVI
Applicable from 1st April, 2023

Vehicle Class	OBD Stage II/Gasoline			
	CO mg/km	NMHC mg/km	NOx mg/km	PM mg/km
1 & 2-1	1900	250	300	50(1)
2-2	1900	250	300	50(1)
3-1 & 3-2	1900	250	300	50(1)
Vehicle Class	OBD Stage II /Diesel			
	CO mg/km	NMHC mg/km	NOx mg/km	PM mg/km
All	1900	320	540	50

(i) In case of P.I. engines, applicable only to vehicles with direct injection engines.

(ii) The Emission Standards (Bharat Stage VI) for two wheelers with Spark Ignition engines other than those specified in para (19), (i) above: (Vehicles with cc \leq 50 and Vmax \leq 50 km/hr) shall be as per the below table:

Table

Pollutant	TA=COP norms mg/km	Deterioration Factor (D.F.)	Test Cycle (Cold Start at T=0 sec)
CO	500	1.2	IDC as per AIS:137
HC	350	1.2	
NOx	150	1.2	

Notes:

(1) Gasoline/ CNG/ LPG vehicles specified herein shall comply with the provisions of clause (i) of sub- rule (2) of rule 115

(2) The Reference Gasoline fuel (E5) shall be as specified in Annexure IV-X.

(3) Reference natural gas fuel used in Natural Gas or Bio-Methane mono-fuel or bi-fuel vehicles shall be as per Annexure IV-L (G20, G23 and G25).

(4) Reference LPG fuel used in LPG mono-fuel or bi-fuel vehicles shall be as per Annexure IV M (Fuel A and Fuel B). However, in case of non-availability of reference fuels for CNG / LPG, the commercially available CNG as per BIS 15958:2012 and LPG as per BIS 14861:2000 as amended from time to time shall be used for the purpose of Type Approval and Conformity of Production. The reference fuel Biogas (Bio-methane) shall be as per IS 16087:2013 and as amended time to time.

(5) The provision clause (a) sub-clause (i) of clause (c), clause (e) and clause (f) of sub-rule (12) of clauses (a), (c)(i), (e) and (f) for sub-rule 12 of rule 115, except the proviso therein, shall be applicable to the said vehicle.

(6) The driving cycle for Vehicles with cc \leq 50 and Vmax \leq 50 km/hr shall be Indian Driving Cycle (IDC) and the exhaust gas sampling shall start at the initiation of cycle in case of gasoline two wheeler vehicles.

(7) The engine power shall be measured on engine dynamometer and the measured power shall conform to the power specified and tested as per procedure prescribed in AIS 137 and as amended time to time.

(20) The Emission Standards Bharat Stage VI (BS VI) for Three wheelers vehicle models manufactured on or after 1st April 2020 shall be as under:-

Table 1
Three wheelers fitted with PI and CI Engines: BS VI

Vehicle with PI engines							
	CO mg/km	HC+NOx mg/km	NOx mg/km	EVAP mg/test	OBD	Durability mileage (km) Type V	Test Cycle (Cold Start at T=0 sec)
Limit	440	435	130	1500	Stage II	35000	IDC AIS137
D.F.	1.20	1.2	1.2	--	--	--	
Vehicle with CI engines							
	CO mg/km	HC+NOx mg/km	NOx mg/km	EVAP mg/test	OBD	Durability mileage (km) Type V	Test Cycle (Cold Start at T=0 sec)
Limit	220	200	160	25	Stage II	35000	IDC AIS137
D.F.	1.10	1.0	1.00	1.20	--	--	

TABLE 2
Application of Test Requirements for Type-Approval : BS-VI

Reference Fuel	Vehicle with SI engines including hybrids										Vehicles with CI engines including hybrids	
	Mono Fuel					Bi- Fuel ⁽¹⁾				Flex Fuel ⁽¹⁾	Mono Fuel	Dual Fuel
	Gasoline (E5)	LPG	CNG / Bio-Methane/Bio-Gas/LNG	Hydrogen	H ₂ CNG (Hydrogen + CNG)	Gasoline(E5)	Gasoline(E5)	Gasoline(E5)	Gasoline(E5)	Die sel (B7)		
Gaseous Pollutants (Type ¹ Test)	Yes	Yes	Yes	Yes	Yes	Yes(Bot h Fuels)	Yes(Bot h Fuels)	Yes (Both Fuels)	Yes (Both Fuels)		Yes	Yes
Particulate Mass (Type ² Test)	Yes	No	No	No	No	No	No	No	Yes (Both Fuels)		Yes	Yes
Idle Emissions (Type II Test)	Yes	Yes	Yes	No	Yes	Yes(Bot h Fuels)	Yes(Gasoline Only)	Yes (Both Fuels)	Yes (Both Fuels)		Yes	Yes
Crankcase Emissions (Type III Test)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		Yes	Yes
Evaporative Emissions (Type IV test)	Yes	No	No	Yes	Yes	Yes(Gasoline only)	Yes (Gasoline Only)	Yes(Gasoline Only)	No		No	No
Durability (Type V Test)	Yes	Yes	Yes	Yes	Yes	Yes(Gasoline only)	Yes(Gasoline only)	Yes (Gasoline Only)	Yes(B7 only)		Yes	Yes
⁽⁴⁾ CO ₂ emission and fuel consumption	Yes	Yes	Yes	No	No	Yes(bot h fuels)	Yes(bot h fuels)	Yes(bot h fuels)	Yes(bot h fuels)		Yes	Yes
OBD Stage II	Yes	Yes	Yes			Yes(Gasoline only)	Yes(Gasoline only)	Yes (Gasoline Only)	Yes(B7 only)		Yes	Yes
Smoke Opacity	No	No	No	No	No	No	No	No	Yes(B7 only)		No	No
(1) Vehicles fuelled with bio diesel blends up to 7% shall be tested with reference diesel (B7) and vehicles fuelled with Bio diesel blends above 7% will be tested with respective blends.												
(2) In case of PI engines, applicable only to vehicles with direct Injection engines.												
(3) Vehicles models and variants having option for Bi-fuel operation and fitted with limp-home gasoline tank of capacity not exceeding three litres on three wheelers shall be exempted from test in gasoline mode.												
(4) CO ₂ emission and fuel consumption shall be measured as per procedure laid down in AIS 137 and as amended time to time.												
When bi-fuel vehicle is combined with a flex fuel vehicle, both test requirements are applicable. Vehicle tested with E100 need not to be tested with E85.												

Notes -

1. The test shall be on Chassis Dynamometer.
2. The test including driving cycle shall be as provided in CMV sub-rule (12) with the modifications that
 - i) The exhaust gas sampling should start at the initiation in case of gasoline and diesel three wheeler as per the engine start up procedure referred to in Annexure II.
3. The provision of clauses (a),(c), (d), (e)and(f)of sub-rule (12)ofrule115,exceptthe proviso therein at the end of this sub rule, shall be applicable to the said vehicles.
4. Specifications of Reference Fuels:
 - (a) The Reference Gasoline fuel (E5) shall be as specified in Annexure IV-X. The reference Ethanol fuel (E85) shall be as per the Annexure IV-Q.
 - (b) The Reference Diesel fuel (B7) shall be as specified in Annexure IV-T.
 - (c) Reference natural gas fuel used in Natural Gas or Bio-Methane mono-fuel or bi-fuel vehicles shall be as per Annexure IV-L (G20, G23 and G25).
 - (d) Reference LPG fuel used in LPG mono-fuel or bi-fuel vehicles shall be as per Annexure IV M (Fuel A and Fuel B), however, in case of non-availability of reference fuels for CNG / LPG, the commercially available CNG as per BIS 15958:2000 and LPG as per BIS 14861:2012 as amended from time to time shall be used for the purpose of Type Approval and Conformity of Production.
 - (e) Reference fuel Biogas (Bio-methane) shall be as per IS 16087:2013 and as amended time to time.
5. Specifications of Commercial Fuels shall be as under:-
 - i) The Commercial Gasoline fuel shall be as per Annexure IV-U.
 - ii) Specification for commercial CNG and commercial LPG shall be in accordance with BIS 15958:2012 and as per BIS 14861:2000 respectively.

iii) Biodiesel used in commercial Diesel shall be as per IS 15607.

iv) Specification for Commercial Diesel fuel shall be as per Annexure IV-V.

v) Specifications for commercial E85 shall be as specified in accordance with the Indian Standards as amended from time to time.

vi) Specification of commercial Biogas (Bio-methane) shall be as per IS 16087:2013 and as amended time to time.

6. There shall be no relaxation of norms for Conformity of Production (COP) purposes.

7. The Conformity of Production (COP) testing procedure shall be as described in AIS 137 and as amended time to time. For 3W vehicles, at least 50% of Vehicle models produced from particular plant shall be selected randomly from dealer's location or warehouse.

8. Alternative to fixed DF mention in Table 1, the vehicle manufacturers may opt for evaluation of deterioration factor as per procedure described in AIS 137.

9. The engine power shall be measured on engine dynamometer and the measured power shall confirm to the power specified and tested as per procedure prescribed in AIS 137 and as amended time to time.

10. The vehicle presented for Type approval shall have been run for 1000km before the test.

11. (a) C.I. vehicles specified herein shall comply with the provisions of clause (ii) of sub-rule(2) of rule 115.

(b) S.I. Vehicles specified herein shall comply with the provision of clause (i) of sub-rule (2) of rule 115.

12. Crank case ventilation system shall not permit the emission of any of the crankcase gases into the atmosphere. Test procedure shall as per AIS 137.

13. Evaporative emission for gasoline driven vehicles shall not be more than 1.5 g/test. Test procedure shall as per AIS 137.

14. The Three wheeler vehicles shall be equipped with On-Board Diagnostic (OBD) systems for emission control which shall have the capability of

identifying the likely area of malfunction by means of fault codes stored in computer memory as per the procedure laid down in AIS 137.

The On-Board Diagnostic (OBD) systems for emission control shall be as specified in the below Tables:-

**Table 1
OBD Functions and associate**

Monitoring Items	OBD Stage I (BS VI) 1st April, 2020	OBD Stage II (BS VI) 1st April, 2023
Circuit continuity for all emission related power train component (if equipped)	✓	✓
Distance travelled since MIL(Malfunction indicator lamp) ON	✓	✓
Electrical disconnection of Electronic evaporative purge control device (if equipped and if active)	✓	✓
Catalytic converter monitoring	X	✓
EGR system monitoring	X	✓
Misfire detection	X	✓
Oxygen sensor deterioration	X	✓

**Table 2
On-board (OBD) diagnostics emission thresholds for BSVI
Applicable from 1st April, 2023**

Vehicle	OBD Stage II Gasoline	
	CO mg/km	NOx mg/km
Gasoline	880	425
Vehicle	OBD Stage II Diesel Vehicles	
	CO mg/km	NOx mg/km
Diesel	440	300

^{92a}[(21) New motor vehicles conforming to Emission Standard Bharat Stage-IV, manufactured before the 1st April, 2020 shall not be registered after the 30th June, 2020:

Provided that the new motor vehicles of categories M and N conforming to Emission Standard Bharat Stage-IV, manufactured before the 1st April, 2020 and sold in the form of drive away chassis, shall not be registered after the 30th September, 2020.]

⁹¹[115-A. ⁹²[Emission of smoke and vapour from agricultural tractors, power tillers, construction equipment vehicles and combine harvesters driven by diesel engines.— (1) Every ⁹²[agricultural tractors, construction equipment

⁹¹. Inserted by G.S.R.627(E),dated8-9-1999(w.e.f.1-10-1999).

⁹². Substituted by G.S.R.589(E),dated 20-3-2015 (w.e.f. 1-4-2015).

^{92a}. Substituted by G.S.R.178(E),dated 20-02-2018 (w.e.f. 20-02-2018).

vehicles and combine harvesters] manufactured on and from the date of commencement of this rule shall be maintained by its owner in such condition and shall be so used that visible and gaseous pollutants emitted by them comply with the standards as prescribed in this rule.

(2) Every manufacturer of an ⁹²[agricultural tractor, construction equipment vehicle and combine harvesters] shall comply with the standards for visible pollutants, emitted by it, when tested as per the procedure described in Indian Standards IS: 12062:1987.

(3) The emission of visible pollutants shall not exceed the limit values given below when tested on engine dynamometer at eighty per cent load at six equally spaced speeds, namely:—

(a) Fifty-five per cent of rated speed declared by the manufacturer or one thousand r.p.m., whichever is higher; or

(b) rated speed declared by the manufacturer.

(4) Every diesel driven ⁹³[construction equipment vehicles] shall be so manufactured and produced by its manufacturer that it complies with the following standards of gaseous pollutants, emitted by them in addition to those of visible pollutants as provided in sub-rule (2) when tested as per the procedures described in ISO 8178-4 "CI"8 mode cycle, namely:—

The weighted average Mass of Carbon Monoxide (CO), Hydrocarbons (HC) and Mass Oxides of Nitrogen (NOx) in gram or ⁹⁴[per] kilo watt. hr. emitted during the test shall not exceed the limits given below, both for type approval and Conformity On Production tests, namely:—

Mass of Carbon Monoxide(CO)	—	14.0 gram or ⁹⁴ [per] kilo watt. hr.
Mass of Hydrocarbon (HC)	—	3.5 gram or ⁹⁴ [per] kilo watt. hr.
Mass of Oxides of Nitrogen (NOx)	—	18.0 gram or ⁹⁴ [per] kilo watt. hr.]

^{94a}[(5) Every diesel driven agriculture tractor and power tiller shall be so manufactured And produced by the manufacturer that it complies with the following standards of gaseous pollutant emitted by them in addition to those of visible pollutants as provided in sub-rule (2)when tested as per the procedure prescribed in ISO 8178-4"CI"8 mode cycle, namely:—

⁹³. Substituted by G.S.R.83(E), dated 5-2-2003,for "agricultural tractor and construction equipment vehicle"(w.e.f.1-6-2003).

⁹⁴. Corrected by G.S.R.800(E),dated 3-12-1999.

^{94a}. Substituted by G.S.R. 589(E), dated 16-9-2005(w.e.f. 16-9-2005).

The weighted average Mass of Carbon Monoxide (CO), Hydrocarbon (HC) and Oxides of Nitrogen (NOx) and Particulate Matter (PM) in gram per kilo watt hour emitted during the test shall not exceed the limits given below in the Table for Type Approval (TA) and Conformity of Production (COP) tests, namely:—

TABLE

(1)	Bharat(Term)Stage II norms	Bharat(Term)Stage III norms
	(2)	(3)
	TA=COP	TA=COP
Mass of Carbon Monoxide (CO)	9.0	5.5
Mass of Hydrocarbons (HC)	15.0	9.5
Mass of Oxides of Nitrogen (NOx)		
Mass of Particulate Matter (PM)	1.0	0.8]

⁹⁵[(6)] Every diesel driven construction equipment vehicle ^{95a} [and self-propelled combine harvester] shall be so manufactured that it complies with the following standards of gaseous pollutants emitted by them in addition to those of visible pollutants as provided in sub-rule (2), when tested as per the procedure described in ISO 8178 Part-4 (1996) C1 8 mode cycle for variable speed engines and ISO 8178 Part – 4 (1996) D2 5 mode cycle for constant speed engines, namely:—

The weighted average Mass of Carbon Monoxide (CO), Hydrocarbon (HC) and Oxides of Nitrogen (NOx), and Particulate Matters (PM) in grams per kilo Watt hour emitted during the test shall not exceed the limits given below in the table for type Approval (TA) and Conformity of Production (COP) tests, namely :-

TABLE

Limit Values for Type Approval (TA) as well as for Conformity of Production (COP)

Bharat Stage II (CEV)	Applicable with effect from the	CO	HC	NOx	PM
g/kWh					
kW<8	1st October, 2008	8.00	1.30	9.20	1.0
8 - kW < 19	1st October, 2008	6.60	1.30	9.20	0.85
19 - kW < 37	1st October, 2007	6.50	1.30	9.20	0.85
37 - kW < 75	1st October, 2007	6.50	1.30	9.20	0.85
75 - kW < 130	1st October, 2007	5.0	1.30	9.20	0.70
130 - kW < 560	1st October, 2007	5.0	1.30	9.20	0.54

⁹⁵. Inserted by G.S.R. 276(E), dated 10-4-2007 (w.e.f. 10- 4-2007).

^{95a} Inserted by G.S.R. 212(E), dated 20-3-2015 (w.e.f. 1-4-2015).

Bharat Stage III (CEV)	Applicable with effect from the	CO	HC + NOx	PM
Category		q/kWh		
kW < 8	1st April, 2011	8.00	7.50	0.80
8 – kW < 19	1st April, 2011	6.60	7.50	0.80
19 – kW < 37	1st April, 2011	5.50	7.50	0.60
37 – kW < 75	1st April, 2011	5.0	4.70	0.40
75 – kW < 130	1st April, 2011	5.0	4.00	0.30
130 – kW < 560	1st April, 2011	3.50	4.00	0.20

Notes :-

1. The test shall be on Engine Dynamometer.
2. The Test-Procedure for measurement of Gross Power (without Fan) shall be as per Part IV of MoSRTH/CMVR/TAP-115/116 Issue No.3.
3. The Test-Procedure for measurement of emission of visible and gaseous pollutants and Particulate Matter shall be as per MoSRTH/CMVR/TAP -115/116 Part X (Sub-part B).
4. The emission of visible pollutants shall not exceed the limit values given in sub-rule (3) of rule 115-A when tested on engines dynamometer at eighty per cent load at six speeds as per sub-rule (3) of rule 115-A.
5. To meet Bharat Stage III (CEV) norms with effect from 1st April, 2011, Engine manufacturer may opt for an engine test as mentioned in Table 1 below for evaluating deterioration factors as per Annexure V of Part X, sub-part B of MoSRTH/CMVR/TAP-115/116 Issue No.3.

TABLE 1

Category (power band)	Useful life (hours)
	(Emission Durability Period)
< 19 kW	3000
19 < kW < = 37(constant speed)	3000
19 < kW < = 37 (variable, speed)	5000
>37 kW	8000

or

Fixed Deterioration factors shall be used as per table 2 below.

TABLE 2

CO	HC	NOx	PM
1.1	1.05	1.05	1.1

6. There shall be no relaxation of norms for COP purposes.
7. COP Selection Procedure shall be as per MoSRTH/CMVR/TAP-115/116 Part VI.
8. COP Frequency:-

(a) for equipment with annual production upto 200 Nos. shall be once in two years per Engine Family;

(b) for equipment with annual production exceeding 200 Nos. shall be once in every year per Engine Family.]

^{95b}[9. Bharat Stage III CEV) norms shall be applicable to self-propelled combine harvester on and from the commencement of the Central Motor Vehicles (Fourth Amendment) Rules, 2015.]

^{95c}[(7) Every diesel driven ^{95d}[agricultural tractor and agricultural tractor-operated combine harvester] manufactured on and from the date specified in Column (2) of the Table 1 shall comply with the Bharat (Trem) Stage-III-A norms and the weighted average mass of Carbon Monoxide (CO), Hydrocarbon (HC) and Oxides of Nitrogen (NOx) and Particulate Matters (PM) in grams per kilo Watt/hour emitted by them in addition to those of visible pollutants as provided in sub-rule (2), when tested for type Approval (TA) and Conformity of production (COP) in accordance with the procedure specified in ISO 8178 Part-4 (1996) ‘C1’ 8 mode cycle, shall not exceed the limits given in columns (3), (4) and (5) respectively, of the said Table.

TABLE 1

Limits Values for Type Approval (TA) and Conformity of Production (COP)

Category	Applicable from	CO	HC + NOx	PM
(1)	(2)	(3)	(4)	(5)
<8 kW	1.4.2010	5.5	8.5	0.8
8<=kW < 19	1.4.2010	5.5	8.5	0.8
19<=kW < 37	1.4.2010	5.5	7.5	0.6
37<=kW < 56	1.4.2011	5.0	4.7	0.4
56<= kW < 75	1.4.2011	5.0	4.7	0.4
75<=kW < 130	1.4.2011	5.0	4.0	0.3
130<=kW < 560	1.4.2011	3.5	4.0	0.2

Notes :-

1. The test shall be on Engine Dynamometer.
2. The test procedure for measurement of Gross Power (without Fan) shall be as per Part IV of MoSRTH/CMVR/TAP-115/116 Issue No.3.
3. The test procedure for measurement of emission of visible and

^{95b}. Inserted by G.S.R. 212(E0, dated 20-3-2015 (w.e.f. 1-4-2015).

^{95c}. Inserted by G.S.R.84€, dated 9-2-2009 (w.e.f.9-2-2009).

^{95d}. Substituted by G.S.R. 212€, dated 20-3-2015 (w.e.f.1-4-2015).

gaseous pollutants and Particulate Matter shall be as per MoSRTH/CMVR/TAP-115/116 Part X (sub-part A).

4. Test fuel shall be the reference fuel as specified in Annexure IV-P.
5. The emission of visible pollutants, when tested as provided in sub-rule (3) of rule 115-A, shall not exceed the limit values given therein.
6. To meet Bharat (Trem) Stage-III-A norms with effect from the date specified in column (2) of Table 1, the engine manufacturer may opt for an aging test as specified in Table 2 for evaluating deterioration factors as per Annexure V of Part X (sub-part B) of MoSRTH/CMVR/TAP/115-116 Issue No.3 or fixed deterioration factors as per Table 3.

TABLE 2

Category (power band)	Useful life (hours)
(Emission Durability Period)	
<=19 kW	3000
19<kW<=37	5000
>37 kW	8000

TABLE 3

CO	HC	NOx	PM
1.1	1.05	1.05	1.1

7. There shall be no relaxation of norms for Conformity of Production (COP) purposes.

8. Conformity of Production (COP) Selection Procedure shall be as per MoSRTH/CMVR/TAP-115/116 Part VI.

9. Conformity of Production (COP) Frequency shall be as per Part X (sub-part A) of MoSRTH/CMVR/TAP-115/116.

10. The extension of Type Approval (TA) to engine family and engine after-treatment system family shall be specified in MoSRTH/CMVR/TAP-115/116 as amended from time to time.

Explanation 1. - The term —“engine family” includes a range of engines having similar design parameters for emission levels.

Explanation 2. - The term —“engine after-treatment system family” means if same after-treatment system consisting of catalyst,

particulate traps, etc., is used on a series of engines, then the deterioration factor based on engine test shall be applicable to the entire series.]

⁹⁶[^{96a}(8) Every gasoline driven power tiller manufactured on and from 1st July, 2013 and every gasoline multi-utility industrial power sweeper and every gasoline agricultural tractor manufactured on and from 1st October, mass emission standards, when tested for Type Approval (TA) and Conformity of Production (COP) in accordance with the eighth mode test cycle as specified in the following Table 2 below: -]

TABLE 1

Mode	Engine Speed	Percent Load	Weighted Load
(1)	(2)	(3)	(4)
1.	Rated	100	0.15
2.	Rated	75	0.15
3.	Rated	50	0.15
4.	Intermediate speed	10	0.1
5.	Intermediate speed	100	0.1
6.	Intermediate speed	75	0.1

TABLE 2

Limit value for type Approval (TA) and Conformity of Production (COP) Co(g/Kwhr)	HC+Nox(g/Kwhr)
(1)	(2)
14	24

^{96aa}[⁹(9) Every agricultural tractor, construction equipment vehicle and combine harvester shall be so manufactured that it complies with the following standards of gaseous pollutants emitted by them when tested on following duty cycle, namely :-

(a) for variable-speed engines, the 8-mode test cycle or the corresponding ramped modal cycle and the transient cycle Non Road Transient Cycle (NRTC);

(b) for constant-speed engines, the 5-mode test cycle or the corresponding ramped modal cycle;

^{96.} Inserted by G.S.R. 515E, dated 29-6-2012 (w.e.f. 29-6-2012).

^{96a}. Substituted by G.S.R. 543E, dated 30-7-2014(w.e.f. 30-7-2014).

^{96aa} Cl.9, substituted by G.S.R. 201(E) dated 05-03-2018 (w.e.f. 05-03-2018).

(c) emissions (g/kWh) shall be measured over applicable emission limit for Non Road Safety Cycle (NRSC) and Non Road Transient Cycle (NRTC) test cycle as per test applicability mentioned in Table 1 and Table 2 given below and for NRTC test cycle, composite weighted emissions shall be computed by weighing the cold start results 10 per cent. and the hot start results 90 per cent. weighted composite results shall meet the limits given in said- tables

Table 1

(Bharat Stage (CEV/TREM) - IV

Applicable emission limit for Non Road Steady Cycle (NRSC) and Non Road Transient Cycle (NRTC) test cycle

Category, kW	Applicable with effect from	CO	HC	NOx	PM	Test Cycle*
		g/ kWh				
37 ≤ P < 56	1 st October, 2020	5.0	4.7 (HC+NOx)		0.025	NRSC and NRTC
56 ≤ P < 130		5.0	0.19	0.4	0.025	
130 ≤ P < 560		3.5	0.19	0.4	0.025	

*Test cycle as described in AIS: 137and as amended from time to time.

Table 2

(Bharat Stage (CEV/TREM) - V

Applicable emission limit for Non Road Steady Cycle (NRSC) and Non Road Transient Cycle (NRTC) test cycle

Category, kW	Applicable with effect from	CO	HC	NOx	PM	PN	Test Cycle*
		g/ kWh				#/kWh	
P < 8	1 st April, 2024	8.0	7.5 (HC+NOx)	0.4	---	---	NRSC
8 ≤ P < 19		6.6	7.5 (HC+NOx)	0.4	---	---	
19 ≤ P < 37		5.0	4.7(HC+NOx)	0.015	1×10 ¹²	1×10 ¹²	
37 ≤ P < 56		5.0	4.7(HC+NOx)	0.015	1×10 ¹²	1×10 ¹²	NRSC and NRTC
56 ≤ P < 130		5.0	0.19	0.4	0.015	1×10 ¹²	
130 ≤ P < 560		3.5	0.19	0.4	0.015	1×10 ¹²	
P ≤ 560		3.5	0.19	3.5	0.045	---	NRSC

Notes:-

- (i) The test shall be done on engine dynamometer.
- (ii) The test procedure for measurement of gross power (without Fan) shall be as per procedure laid down in AIS:137 and as amended time to time.
- (iii) For gross power measurement the tolerance shall be applied for type approval and conformity of production as per table 3 given below –

Table 3

Engine Type	Rated power [%]	Other measurement points on the curve [%]	Tolerance for engine speed [%]
Type approval	±2	±4	±1.5
Conformity of production	±5	±10	±5

(iv) Test procedure for measurement of emission of visible and gaseous pollutant and particulate matter shall be as per procedure laid down in AIS: 137 and as amended from time to time.

(v) The emission of visible pollutant (smoke) shall not exceed the limit values of smoke density when expressed as light absorption coefficients as given in Annexure I of sub- rule (9) of rule 115, when tested on engine dynamometer at full load at six speeds as per procedure laid down in AIS: 137 and as amended from time to time.

(vi) (a) Engine manufacture may opt for an engine test as mentioned in table 4 given below for evaluating deterioration factors as per procedure laid down in AIS:137 and as amended from time to time-

Table 4

Category (Power Band)	Emission durability period (hours)
<37kW (constant speed Engines)	3000
<37kW (Variable speed Engines)	5000
> 37	8000

(b) As an alternative to use a service accumulation schedule to determine deterioration factors, engine manufacturers may select to use the assigned multiplicative deterioration factors as per table 5 given below-

Table 5

Test cycle	CO	HC	NOx	PM
NRSC	1.3	1.3	1.15	1.05
NRTC	1.3	1.3	1.15	1.05

(vii) Conformity of Production (COP)frequency and selection procedure shall be as per procedure laid down in AIS: 137 and as amended time to time.

(viii) For Conformity of Production (COP),-

(a) for agricultural tractor, construction equipment and combine harvester with annual production or Import up to 200 nos (per engine family), it shall be once in two years per family or model.

(b) for agricultural tractor, construction equipment and combine harvester equipment with annual production or Import exceeding 200 nos (per engine family), it shall be once in every year per family or model.

(ix) For Conformity of Production (COP), the sampling size shall be one day's average production subject to a minimum of 10 and maximum of 100:

Provided that for engine family produced less than 200 in the yearly period sample size may be one.

(x) For Type approval and Conformity of Production (COP) test, fuel shall be Reference fuel or commercial fuel as specified in Annexure IV-T and Annexure IV-V respectively.

(xi) The vehicles specified in this rule fitted with engine, which rely on the use of a reagent in order to reduce emissions, shall ensure the correct operation of NOx control measures, as per procedure laid down in AIS:137 and as amended from time to time.

(xii) Emission of ammonia over the NRTC and NRSC for engines equipped with SCR shall not exceed a mean value of 25 ppm for engine power category less than or equal to 56 kW and 10 ppm for engine power category above 56 kW.

(xiii) The diesel engine Nox reduction agent AUS: 32 (Aqueous Urea Solution) shall conform to part 1 and part 2 of ISO: 22241.

(xiv) The vehicles specified under this rule and manufactured after the 1st April 2026 shall be monitored for gaseous pollutant emission from in-service internal combustion engines installed on vehicles, as per procedure laid down in AIS: 137 and as amended from time to time.

(xv) The engine or vehicle fitted with engines shall be affixed with a conformance label meeting the requirements as specified in AIS: 137 and as amended from time to time.

(xvi) For the vehicles specified under this rule, the emission sampled within the control area as per procedure laid down in AIS-137 and as amended from time to time, shall not exceed more than two times the limit values of the emission specified in Table 1 and Table 2 for stages IV and V, respectively:

Provided that the vehicles manufactured before the date of applicability of Bharat Stage (CEV/TREM) IV or Bharat Stage (CEV/TREM) V, respectively, shall be registered up to six months after the respective date of implementation of this rule.".]

^{96b}[115-AA. Emission of smoke and vapour from agriculture tractors, power tillers, construction equipment vehicles and combine han/esters driven by dualfuel diesel with Compressed Natural Gas or Bio-Compressed Natural Gas or Liquefied Natural Gas engines.- (1) In case of agriculture tractors, power tillers, construction equipment vehicles and combine harvesters driven by Original Equipment (O.E) manufactured as dual fuel engine or converted in-use diesel engines to dual fuel engines by using diesel engines and any fuel out of Compressed Natural Gas (here in after referred to as CNG), Bio-Compressed Natural Gas (hereinafter referred to as Bio-CNG) or Liquefied Natural Gas (hereinafter referred to as LNG), prevailing mass emission norms for diesel mode shall also be applicable for CNG or Bio-CNG or LNG dual fuel mode for type approval and Conformity of Production (CoP).

(2) The CNG or Bio-CNG or LNG composition used for carrying out emission shall meet the fuel specifications as notified by the Central Government from time to time under applicable law:

Provided that till such time the commercial CNG or Bio-CNG shall be used for the purpose of type approval and conformity of production and in case of LNG. fuel complying with the requirements as provided in Annexure IV- LA shall be used for the purpose of type approval and conformity of production.

(3) The Original Equipment manufacturer or retrofitter shall meet the safety requirements and code of practice for vehicle or engine and its kit components as laid dOWI'I in Annexure IX, AIS-O24 and AIS- O28(Rev. 1), as amended from time to time.

(4) Mass emission standards for CNG or Bio-CNG or LNG dual fuel engines of agriculture tractors, power tillers, construction equipment vehicles and combine harvesters shall be same as the mass emission standards applicable for diesel engines of agriculture tractors, power tillers, construction equipment vehicles and combine harvesters with exception that the HC (Hydrocarbon) shall

^{96b} Inserted by G.S.R. 1151(E), dated 29-11-2018 (w.e.f. 29-11-2018).

be replaced by NMHC (Non-Methane Hydrocarbon) on measurement basis as detailed in rule 115 A and the test applicability requirements for dual fuel engine shall bedepending on the Gas Energy Ratio (GER) measured over test-cycle applicable as per prevailing norms. GER classification shall be as per MoRTH/CMVR/TAP-115/116 (as amended from time to time) and notifications issued by the Central Government from time to time under the applicable law.

(5) Tests for particulate matter and emission of visible pollutants (smoke) stipulated in the rule 115A shall be applicable for dual fuel CNG or Bio-CNG or LNG engine or vehicle.

(6) The type approval certificate of CNG or Bio-CNG or LNG duel fuel kit for retro fitment shall be valid for three years from the date of the issue of type approval certificate and shall be renewable for three years at a time.".

^{96c}[115-B.^{96b}[Mass emission standards for Compressed Natural Gas (CNG) or Bio-Compressed Natural Gas (Bio-CNG) or Liquefied Natural Gas (LNG) Driven Vehicles]. — ^{97b}[(1)] ⁹⁷[Mass emission standards for vehicles when operating on Compressed Natural Gas (here in after in this rule referred to as "CNG") shall be the same as are applicable for gasoline vehicles with the exception that HC shall be replaced by Non-Methane Hydrocarbon (NMHC), where NMHC =0.3 x HC]

^{97a}[Provided that bio-compressed natural gas (bio-CNG) shall be permitted for motor vehicles as an alternate composition of the compressed natural gas (CNG):

Provided further that the mass emission standards applicable to compressed natural gas (CNG) vehicles under these rules shall be applicable to respective vehicles when they use bio-compressed natural gas (bio-CNG):

Provided also that the bio-compressed natural gas (bio-CNG) composition meets the fuel specification for bio-compressed natural gas (bio-CNG) as per IS 16087 and meets the requirement of Siloxanes max 0.1 ppm (calculated as Si).]

^{96c}R. 115-B substituted by G.S.R. 853(E) dated 19-11-2001 (w.e.f. 19-5-2002).

⁹⁷. Substituted by G.S.R. 111(E) , dated 10-2-2004 (w.e.f. 10-8-2004).

^{97a} Inserted by G.S.R. 498(E), dated 16-6-2015 (w.e.f. 16-6-2015).

^{97b} R. 115-B , Re Numbered as Sub Rule (1) by G.S.R 643(E), dated 27-06-2017 (w.e.f. 27-06-2017).

^{97c}[(2) The mass emission standards applicable to Original Equipment CNG Dedicated Vehicles under sub-rule (1) shall be applicable to Original Equipment manufactured vehicle having GVW \geq 3.5 T,when Liquified Natural Gas is used as fuel.

(3) The Liquified Natural Gas composition used for carrying out emission shall meet the fuel specification as notified by the Government of India in the Ministry of Petroleum and Natural Gas, or Bureau of Indian Standard, as the case may be, for automotive application from time to time:

Provided that till such time the Liqiufied Natural Gas fuel complying to the requirements as provided in Annexure IV- LA shall be used for the purpose of type approval and conformity of production.

^{97d}[(4) The Original Equipment manufactured LNG dedicated vehicle or Converted LNG vehicle from in-use diesel vehicle having GVW \geq 3.5 T or O.E. or retrofitted LNG duel fuel vehicle or engine including its kit components shall meet the safety requirements and code of practice as laid down in AIS-024 and AIS- 028(Rev. 1), as amended from time to time.".]]

A.Original Equipment /Converted Gasoline Vehicles:

(I).For gasoline vehicles with Original Equipment (here in after in this rule referred to as O.E.) fitment. —

⁹⁸[(a)In case of CNG fitments by vehicle manufacturers on new petrol vehicles, each model manufactured by vehicle manufacturers shall be type approved as per the prevailing mass emission norms as applicable for the category of new vehicles in respect of the place of its use;]

(b) Base model and variants of such vehicle shall conform to these rules as applicable and type approval emission norms in petrol mode as specified in these rules. In the case of CNG mode, it shall meet mass emission norms as specified in rule 115, excluding crankcase and evaporative emission norms.

^{98a}(c) Vehicle models and variants having option for bi-fuel operation and fitted with limp-home Gasoline tank of capacity not exceeding two litres, three litres and five litres respectively on two-wheeler, three wheeler and

^{97c}. Inserted by G.S.R. 643(E), dated 27-06-2017 (w.e.f. 27-06-2017).

^{97d}. Substituted by G.S.R. 1151(E), dated 29-11-2018 (w.e.f. 29-11-2018).

⁹⁸.Cl. (a) substituted by G.S.R 589 (E), dated 16-9-2005 (w.e.f. 16-9-2006).

^{98a}. Substituted by G.S.R. 84(E), dated 9-2-2009 (w.e.f. 9-2-2009).

four wheeler shall be exempted from mass emission tests including all tests specified under sub-rule (2), Notes 6 and 7 mentioned below clause (c) of sub-rule (14) and Notes 6,7,15 and 16 of sub-clause (i) of clause (b) of sub-rule (15) of rule 115 in Gasoline mode;

(d).Prevalent conformity of production procedure shall also be applicable.

(II) For in-use gasoline vehicles. –

(a) The in-use vehicles fitted with CNG kits shall meet the type approval emission norms on CNG operation, as specified in these rules for gasoline vehicles as applicable to the corresponding year of manufacturer of such vehicles, subject to a minimum norms as under:-

(i) For the vehicles manufactured up to 31st March, 2000, the type approval norms equivalent to India – 2000 (India Stage I) norms as applicable under these rules; and

^{98b}[(ii) for the vehicles manufactured on or after the 1st April, 2000, and up to the 30th September, 2010, the type approval norms as specified in the Bharat Stage-II norms;]

^{98c}[(iii) for the vehicles manufactured on and after the 1st day of April, 2005, the type approval norms as applicable subject to minimum of Bharat Stage III emission norms as applicable subject to minimum of Bharat Stage III emission norms in case of four-wheelers and Bharat Stage II emission norms for two and three-wheelers;]

⁹⁹[(iv)for the vehicles manufactured on and after 1st day of April 2010, the type approval norms as applicable, subject to minimum of Bharat Stage-IV emission norms for category M and Category N Vehicles with Gross Vehicle Weight not exceeding 3500 kg and Bharat Stage-III emission norms for two and three wheelers.]

(c) For purposes of CNG kit approval, kit manufacturer or supplier shall obtain in the certified from any of the test agencies authorised under rule 126 based on engine capacity of vehicle, in the following manner, namely:

(i) CNG kit for the vehicle shall be approved for vehicles

^{98b}. Substituted by G.S.R. 498^E, dated 16-6-2015 (w.e.f. 16-6-2015).

^{98c}. Cl. (iii) inserted by G.S.R. 589^E, dated 16-9-2005 (w.e.f. 16-9-2006).

⁹⁹. Inserted by G.S.R.84 (E), dated 9-2-2009(w.e.f. 9-2-2009).

irrespective of make and model. Such a kit shall be considered fit for retro fitment in any vehicle within a specified range of engine capacity of c.c.

(ii) Separate type approval shall be necessary for the following types of vehicles, namely :-

- (a) Two stroke;
- (b) Four stroke;
- (c) Carburetted;
- (d) Single point fuel injected; and
- (e) Multi point fuel injected.

Explanations.—In the case of O.E. or conversion of "In-Use" Gasoline Vehicles,—

(a) For the purposes of granting Type Approval to a CNG kit, the tests shall be carried out as per the Table below by the test agencies.

TABLE

	Test	Reference Document
	(1)	(2)
(i)	Mass emission tests	MOST/CMVR/TAP-115/116 and notifications issued by the Government of India in this respect IS:14599-1999
(ii)	Engine performance tests on engine dynamometer applicable for OE only	S1.No. 31 of the notification number S.O 1365(E0, dated the 13th December, 2004]
¹ [(iii)]	Fuel consumption test	

(b) The test procedure and safety guidelines for CNG vehicles, kit components including Installation thereof, shall be as per A1S 024, as amended from time to time, till such time as corresponding BIS specifications are notified.

(c) For OE fitment and retro fitment on "in-use" vehicles, there responsibility to Type Approval shall be that of the vehicle manufacturer and kit manufacturer or supplier respectively.

(d) The Type Approval of CNG kit for "retrofitment" shall be valid for three years from the Date of issue of such approval and shall be renewable for three years at a time.

(e) The retrofitment of CNG kits on in-use vehicles shall be carried out by workshops authorized by the kit manufacturer / supplier or vehicle manufacturers, as the case may be.

¹. Substituted by G.S.R.84 (E), dated 9-2-2009 (w.e.f. 9-2-2009).

(f) The test agency shall complete the test and give necessary certificate with in a period of three months from the date of receiving the kits.

(g) The kit manufacturer/supplier shall provide a layout plan for retrofitment of CNG kit in the respective models on which any approved kit is to be installed, to the test agency for vetting and approval. The retrofitment of the kit shall be on the basis of such approved layout plan only. Testing agencies will be required to indicate specifically, the models and their variants on which the certificate will be valid.

²[** *]

B. O.E. CNG Vehicles/Converted Diesel Vehicle:

(I) For O.E. CNG Dedicated Vehicle (including drive-away chassis) made by vehicle manufacturers.—

^{2a}[(a) In case of CNG fitments by vehicle manufacturers on new diesel vehicles, each model manufactured by vehicle manufacturers shall be type approved as per the prevailing mass emission norms as applicable for the category of new vehicles in respect of the place of its use;]

(b) O.E.CNG engine approved for specific engine capacity can be installed on the base model and its variants complying with the requirements under these rules as applicable;

(c) Tests for particulate matter and emission of visible pollutants (smoke) under these Rules shall not be applicable;

(d) Prevailing COP procedure will also be applicable.

(II) For conversion by modification of engines of In-use Diesel Vehicles.

(a) Type approval for diesel vehicle retrofitted/modified for dedicated CNG operation shall be given for specific make and model of the vehicle, in view of major changes or modifications involved in the CNG kit and diesel engine depending upon make and model of the vehicle;

(b) CNG kit approved on the vehicle for specific engine capacity can be installed on the base model and its variants fitted with the same capacity engine;

^{2a}[(c) The in-use vehicles when converted to operate on CNG shall

²Items A, CI. (III) omitted by G.S.R. 111(E), dated 10-2-2004(w.e.f. 10-8-2004).

^{2a}. Substituted by G.S.R. 498(E), dated 16-9-2005 (w.e.f. 16-9-2006).

meet the type Approval norms of diesel vehicles corresponding to the year of their manufacture subject to the following minimum norms:—

(i) for the vehicles manufactured upto the 31st day of March, 2000, the type approval norms equivalent to India-2000 (India Stage I) norms as applicable under these rules;

³(ii) for the vehicles manufactured on and after the 1st day of April, 2000, the type approval norms as specified in the Bharat Stage II norms, till the validity of such Bharat Stage II norms;]

(iii) For the vehicles manufactured on and after the 1st day of April, 2005, the type approval norms as applicable subject to minimum of Bharat Stage III emission norms in case off our-wheelers and Bharat Stage II emission norms for two and three-wheelers till the validity of these norms;]

^{3a}[(iv) for the vehicle manufactured on and after 1st April 2010, the type approval norms as applicable, shall be subject to minimum of Bharat Stage-IV emission norms in case of four wheelers and Bharat Stage-III emission norms in case of two and three wheelers till the validity of these norms;]

(d) Vehicles offered for Type Approval to the testing agency referred in rule 126 of the Central Motor Vehicles Rules, 1989 shall have to comply with fitness requirement, as applicable under these rules;

(e) Tests for particulate matter and emission of visible pollutants (smoke) under these Rules shall not be applicable;

(f) Separate Type Approval is required for mechanically controlled and electronically controlled diesel fuel injected vehicles when retrofitted/modified for CNG operation.

Explanations.—In the case of O.E. or conversion of "In-Use" vehicles by modification—

(a) For the purpose of granting Type Approval to the vehicle fitted with CNG engine (converted from diesel engine) as O.E., or conversion by modification of "In-Use" diesel vehicles, performance tests shall be carried out as per the Table given below by the test agencies, namely:—

³. Substituted by G.S.R. 498 (E), dated 16-6-2015 (w.e.f. 16-6-2015).

^{3a}. Inserted by G.S.R. 84(E), dated 9-2-2009 (w.e.f. 9-2-2009).

TABLE

Test	Reference Document (As amended from time to time)
(1)	(2)
(i) Mass emission tests	MOST/CMVR/TAP-115/116 and notifications issued by the Government of India in this respect
(ii) Engine performance tests	IS : 14599-1999
(iii) Gradeability	In accordance with notification issued under rule 124 of Central Motor Vehicle Rules, 1989
^{3b} (iv) Fuel Consumption test	SI. No. 32 of the notification number S.O. 365(E), dated the 31st December, 2004]
(iv) Electro-Magnetic Interference (EMI)	In accordance with notification issued under rule 124 of Central Motor Vehicle Rules, 1989
(v) Range Test of at least 250 km for buses	-
(vi) Cooling Performance	IS: 14557, 1998

^{3b}. Substituted by G.S.R.84 (E), dated 9-2-2009 (w.e.f. 9-2-2009).

Note.- (a) The mass emission tests shall be carried out either on engine dynamometer or chassis dynamometer, as applicable.

(b) Tests procedure and safety guidelines for CNG vehicles, kit components including installation thereof, shall be as per AIS 024, as amended from time to time, till such time as corresponding BIS specifications are notified;

(c) For O.E. fitment and retro fitment/modification on "In-Use" vehicles, the responsibility of Type Approval shall be that of the vehicle manufacturer and kit manufacturer or supplier respectively;

(d) The Type Approval of CNG kit for retro fitment shall be valid for 3 years from the date of issue and shall be renewable for three years at a time;

(e) The retro fitment of CNG kits on in-use vehicles shall be carried out by workshops authorised by the kit manufacturer/supplier or vehicle manufacturers, as the case may be;

(f) The test agency shall complete the test and give necessary certificate within a period of three months from the date of receiving the kits.

⁴[***]

^{4a}[BA. O.E or Converted, Dual Fuel or Dedicated Dual Fuel (for vehicles GVW above 3.5 T), Diesel with Compressed Natural Gas or Bio-Compressed Natural Gas or Liquefied Natural Gas Vehicles - (I) For O.E.CNG or Bio-CNG or LNG dual fuel or dedicated dual fuel vehicles having GVW above 3.5 T including drive away chassis manufactured by vehicle manufacturer-

(a) in case of CNG or Bio-CNG or LNG fitments by vehicle manufacturers on new diesel vehicles, each model manufactured by vehicle manufacturers shall be type approved as per the prevailing mass emission norms as applicable for the category of new vehicles in respect of the place of its use and the test applicability requirements for dual fuel engine shall be depending on the Gas Energy Ratio (GER) measured over test-cycle applicable as per prevailing norms and the GER classification shall be as per MoRTH/CMVR/TAP-115/116 (as amended from time to time) and notifications issued by the Central Government from time to time under the applicable law:

Provided that the O.E. CNG or Bio-CNG or LNG dual fuel engine approved for specific engine capacity may be installed on the base model and its variant complying with the requirements under these rules as applicable;

(b) tests for particulate matter and emission of visible pollutants (smoke) under these rules shall be applicable for dual fuel CNG or Bio-CNG or LNG engine or vehicle;

(c) prevailing COP procedure shall also be applicable;

(d) prevailing mass emission and OBD norms stipulated in rule 115 for diesel mode shall also be applicable for dual fuel mode.

(e) mass emission standards for CNG or Bio-CNG or LNG dual fuel engines or vehicles shall be same as are applicable for diesel engines or vehicles with exception that HC shall be replaced by NMHC (Non-Methane Hydrocarbon) on measurement basis.

(II) For CNG or Bio-CNG or LNG dual fuel or dedicated dual fuel vehicles

⁴. Item B, CI. (III) omitted by G.S.R. 111(E), dated 10-2-2004 (w.e.f. 10-8-2004).

^{4a}. Inserted by G.S.R. 1151(E), dated 29-11-2018 (w.e.f. 29-11-2018)

having GVW above 3.5 T, conversion by modification of engines of in-use diesel vehicles. —

(a) Type approval for CNG or Bio-CNG or LNG dual fuel conversion by modification of engines of in- use diesel vehicles shall be given for specific make and model of vehicle and shall meet applicable type approval norms of diesel vehicles corresponding to the year of manufacture of such diesel vehicle(s);

(b) CNG or Bio-CNG or LNG dual fuel kit approved on the vehicle for specific engine capacity can be installed on the base model and its variant fitted with the same capacity engine;

(d) vehicles offered for type approval to the testing agency referred to in rule 126 of the Central Motor Vehicles Rules, 1989 shall have to comply with the fitness requirement, as applicable under these rules;

(e) prevailing and applicable tests for particulate matter and emission of visible pollutants (smoke) provided under rule 115 shall be applicable for dual fuel CNG or Bio-CNG or LNG engine or vehicle

(f) separate type approval is required for mechanically controlled and electronically controlled diesel fuel injected vehicles when modified for dual fuel CNG or Bio-CNG or LNG operation; mass emission standards for CNG or Bio CNG or LNG dual fuel engines or vehicles shall be same as are applicable for diesel engines/vehicles with exception that HC shall be replaced by NMHC (Non-Methane Hydrocarbon) on measurement basis.

Explanation.— In the case of OE or conversion of "In-Use" vehicles by modification. —

(a) for the purpose of granting type approval to the vehicle fitted with dual fuel CNG or Bio-CNG or LNG engine (converted from diesel engine) as O.E., or conversion by modification of "In-use" diesel vehicles, performance tests shall be carried as per Table given below by the test agencies, namely:—

TABLE

Sl.No. (1)	Test (2)	Reference Document (3)
1.	Mass emission tests for dual fuel CNG/Bio CNG/LNG vehicles shall be as per prevailing norms, as applicable for diesel vehicles	MoRTH/CMVR/TAP-115/116 and notifications issued by Government of India in this respect
2.	Engine performance test	MoRTH/CMVR/TAP-115/116 or IS: 14599-1999 (as applicable) and notifications issued by the Central Government in this respect
3.	Gradeability test	In accordance with notification issued under rule 124 of Central Motor Vehicles Rules, 1989
4.	Fuel consumption test	SL No 3] of Notification No S.O. 1365 (E) dated 13 th December, 2004
5.	Electromagnetic Compatibility(EMC)/EMI test	In accordance with notification issued under rule I24 of Central Motor Vehicles Rules, 1989
6.	Range test of at least 250 kilometers for buses on dual fuel mode only	AIS:55
7.	Cooling performance	IS: 145572:1998

Note:—

(a) Mass emission tests shall be carried out either on engine dynamometer or chassis dynamometer, as applicable:

(b) test procedure and safety guidelines and code of practice for dual fuel CNG or Bio-CNG or LNG vehicles, kit components including installation thereof, shall be as per AIS-024 and AIS-028(Rev.1), as amended from time to time, till such time as corresponding BIS specifications are notified;

(c) for O.E. fitment and retro fitment or modification on "In-Use" vehicles the responsibility of type approval shall be that of vehicle manufacturer and kit manufacturer or supplier respectively;

(d) the type approval certificate of CNG or Bio-CNG or LNG dual fuel kit for retro fitment shall be valid for three years from date of issue and shall be renewable for three years at a time;

(e) the retro fitment of duly type approved CNG or Bio~CNG or LNG dual fuel kits on in-use vehicles shall be carried out by workshops authorized by the kit manufacturer or supplier or vehicle manufacturers, as the case may be.

BB. Mass emission standards for LNG driven vehicles. -

(I) Original Equipment or Converted Gasoline Vehicles.—

(a) In case of LNG fitments by vehicle manufacturers on new gasoline vehicles, the mass emission standards. safety and other specified requirements applicable to Original Equipment CNG Vehicles under paragraph I of para A of sub-rule (1) of rule 115 B shall be applicable to Original Equipment manufactured vehicle having GVW less than or equal to 3.5 T.

(b) the in-use gasoline vehicles fitted with LNG kits, the mass emission standards. safety and other specified requirements applicable to converted CNG Vehicles under paragraph II of para A of sub-rule (1) of rule 115B shall be applicable to converted LNG vehicle from in use gasoline vehicle having GVW less than or equal to 3.5 T, when Liquefied Natural Gas is used as fuel.

(II) For LNG conversion b_v modification of engines of in-use diesel vehicles. - The mass emission standards, safety and other specified requirements applicable to converted CNG Vehicles under paragraph II of para B of sub-rule (1) of rule 115B shall be applicable to converted LNG vehicle from in use diesel vehicle having GVW more than 3.5 T. when Liquefied Natural Gas is used as fuel.

(III) Replacement of In-use Diesel Engine by New dedicated LNG Engine.- The mass emission standards. safety and other specified requirements applicable to replacement of In-use Diesel Engine by New dedicated CNG Engine under para C of subrule (I) of rule 115B shall be applicable to vehicles, wherein replacement of In-use Diesel Engine by New dedicated LNG Engine, when Liquefied Natural Gas is used as fuel":]

^{4b}[**BC. O.E. or Converted, Dual Fuel or Dedicated Dual Fuel (for vehicles GVW below 3.5 T), Vehicles having Diesel with Compressed Natural Gas (CNG) or Bio-Compressed Natural Gas (Bio-CNG) or Liquefied Natural Gas (LNG) as dual fuel. -**

(I) For O.E. CNG or Bio-CNG or LNG dual fuel or dedicated dual fuel vehicles having GVW below 3.5 T,-

(a) (i) in case of CNG or Bio-CNG or LNG fitments by vehicle manufacturers on new diesel vehicles, each model manufactured by vehicle manufacturers shall be type approved as per the prevailing mass emission

^{4b}. Inserted by G.S.R. 37(E), dated 17-01-2020 (w.e.f. 17-01-2020)

norms as applicable for the category of new vehicles in respect of the place of its use;

(ii) the test applicability requirements for dual fuel engine shall depend on the Gas Energy Ratio (GER) measured over test-cycle, applicable as per prevailing norms and the GER classification shall be as per the MoRTH/CMVR/TAP-115/116(as amended from time to time) and notifications issued by the central Government from time to time under the applicable law:

Provided that the O.E. CNG or Bio-CNG or LNG dual fuel or dedicated dual fuel engine approved for specific engine capacity may be installed on the base model and its variant;

(b) tests for particulate matter and emission of visible pollutants (smoke) under these rules shall be applicable for dual fuel or dedicated dual fuel CNG or Bio- CNG or LNG engine or vehicle;

(c) prevailing COP procedure shall also be applicable;

(d) prevailing mass emission and OBD norms stipulated in rule 115 for diesel mode shall also be applicable for dual fuel or dedicated dual fuel mode;

(e) mass emission standards for CNG or Bio-CNG or LNG dual fuelor dedicated dual fuel vehicles shall be same as are applicable for diesel vehicles with exception that HC shall be replaced by NMHC (Non-Methane Hydrocarbon) on measurement basis.

(II) For CNG or Bio-CNG or LNG dual fuel or dedicated dual fuelvehicles having GVW below 3.5 T, conversion by modification of engines of in-use diesel vehicles –

(a) type approval for in-use diesel engines retrofitted or modified for CNG or Bio-CNG or LNG dual fuel or dedicated dual fuel conversion by modification of engines of in-use diesel vehicles shall be given for specific make and model of vehicle and shall meet applicable type approval norms of diesel vehicles corresponding to the year of manufacture of such diesel vehicle;

(b) CNG or Bio-CNG or LNG dual fuel or dedicated dual fuel kit approved on the vehicle for specific engine capacity can be installed on the base model and its variant fitted with the same capacity engine;

(c) Vehicles offered for type approval to the testing agency as referred to in rule 126 shall have to comply with the applicable fitness requirement, under these rules;

(d) prevailing and applicable tests for particulate matter and emission of visible pollutants (smoke) provided under rule 115 shall be applicable for dual fuel or dedicated dual fuel CNG or Bio-CNG or LNG engine or vehicle;

(e) separate type approval shall be required for mechanically controlled and electronically controlled diesel fuel injected vehicles when modified for dual fuel or dedicated dual fuelCNG or Bio-CNG or LNG operation;

(f) mass emission standards for CNG or Bio CNG or LNG dual fuel or dedicated dual fuel vehicles shall be same as are applicable for diesel vehicles with exception that HC shall be replaced by NMHC (Non-Methane Hydrocarbon) on measurement basis.

Explanation.- In the case of OE or conversion of —In-Use□ vehicles by modification –

(a) for the purpose of grantingtype approval to the vehicle fitted with dual fuel or dedicated dual fuel CNG or Bio-CNG or LNG engine (converted from diesel engine) as O.E., or conversion by modification of —In-useIdiesel vehicles,performance tests shall be carried as per Table given below by the test agencies,namely: -

TABLE

Sl. No. (1)	Test (2)	Reference Document (3)
1.	Mass emission testsfor dual fuel CNG/Bio-CNG/LNG vehicles shall be as per prevailing norms, as applicable for diesel vehicles.	MoRTH/CMVR/TAP-115/116 and notifications issued by Government of India in this regard.
2.	Engine performance test	MoRTH/CMVR/TAP-115/116 or IS:14599-1999 (as applicable) and notifications issued by the Central Government in this regard.
3.	Gradeability test	In accordance with notification issued under rule 124 of the Central Motor Vehicles Rules, 1989.
4.	Fuel consumption test	Sl.no 31 of notification no S.O. 1365 (E),dated the 13th December, 2004.
5.	Electromagnetic Compatibility(EMC)/EMItest	In accordance with notification issued under rule 124 of the Central Motor Vehicles Rules, 1989.
6.	Range test of at least 250 kms for buses	AIS:55
7.	Cooling performance	IS: 14557,1998

Note:-

(a) Mass emission tests shall be carried out on chassis dynamometer, as applicable;

(b) test procedure and safety guidelines and code of practice for dual fuel or dedicated dual fuel CNG or Bio-CNG or LNG vehicles, kit components including installation thereof, shall be as per AIS-024 and AIS-028(Rev.1), as amended from time to time, till such time as corresponding Bureau of Indian Standards specifications are notified;

(c) for O.E. fitment and retro fitment or modification on – In-Use vehicles the responsibility of type approval shall be that of vehicle manufacturer and kit manufacturer or supplier, respectively;

(d) the type approval certificate of CNG or Bio-CNG or LNG dual fuel or dedicated dual fuel kit for retro fitment shall be valid for three years from the date of issue;

(e) The retro fitment of duly type approved CNG or Bio-CNG or LNG dual fuel or dedicated dual fuel kits on in-use vehicles shall be carried out by workshops authorised by the kit manufacturer or supplier or vehicle manufacturers, as the case may be.]

⁵[C. Replacement of In-Use Diesel Engine by New CNG Engine. – For Type Approval of in-use vehicle diesel engine replaced by new Compressed Natural Gas engine, it shall meet prevailing emission norms as applicable to the category of vehicle in respect of its place of use subject to tests mentioned in the Table given below.]

TABLE

Test	Reference Document
(1)	(2)
(i) Mass emission tests	MOST/CMVR/TAP-115/116 notification issued by the Government of India in this respect
(ii) Engine performance tests	IS : 14599 – 1999
(iii) Gradeability	In accordance with notification issued under rule 124 of Central Motor Vehicles Rules, 1989
(iv) Electro Magnetic Interference (EMI)	In accordance with notification issued under rule 124 of Central Motor Vehicles Rules, 1989
(v) Range test of at least 250 km for buses	-
(vi) Cooling Performance	IS : 14557, 1998
^{5a} [(vii) Fuel Consumption test	SI. No. 31 of the notification number S.O. 1365(E), dated the 13th December, 2004]

⁵. Part C substituted by G.S.R. 589 (E), dated 16-9-2005 (w.e.f. 16-9-2006).

^{5a}. Substituted by G.S.R. 84(E), dated 9-2-2009 (w.e.f. 9-2-2009).

Explanation.—

(a) Vehicles offered for Type Approval to the testing agency referred in rule 126 shall have to comply with fitness requirement, as applicable under these rules.

(b) Test procedure and safety guidelines for such CNG vehicles, kit components including installation thereof shall be as per A1S 024, as amended from time to time, till such time as corresponding BIS specifications are notified.

(c) The test agency shall complete the test and give necessary certificate within three months of the same being submitted for tests.

(d) Testing agencies will be required to indicate specifically, the models and their Variants on which the replacement of new engine will be valid.

^{5b}[CA. Replacement of In-use Diesel Engine by New dual fuel CNG or Bio-CNG or LNG Engine.

- For type approval of in-use vehicle having diesel engine replaced by new dual fuel CNG or Bio CNG or LNG Engine. it shall meet prevailing emission norms as applicable to the Category of vehicles in respect of its place of use subject to tests mentioned in the Table given below, namely:—

TABLE

SI.No. (1)	Test (2)	Reference Document (3)
1.	Mass emission tests Mass emission tests for dual fuel CNG/Bio-CNG/LNG vehicles shall be as per prevailing norms, as applicable for diesel vehicles	MoRTH/CMVR/TAP-115/116 and notifications issued by Government of India in this respect
2.	Engine performance test	MoRTH/CMVR/TAP-115/116 or IS:14599-1999 (as applicable) and notifications issued by the Central Government in this respect
3.	Gradeability test	In accordance with notification issued under rule 124 of Central Motor Vehicles Rules. 1989
4.	Fuel consumption test	SL No 31 of Notification No S.O. 1365 (E) dated 13 th December, 2004
5.	Electromagnetic Compatibility (EMC)/EMI test	In accordance with notification issued under rule 124 of Central Motor Vehicles Rules, 1989
6.	Range test of at least 250 kilometers for buses on dual fuel mode only	AIS:55

^{5b}.Inserted by G.S.R 1151(E) dated 29-11-2018, (w.e.f 29-11-2018)

Explanation. —

(a) Vehicles offered for type approval to the testing agency referred in rule I26 shall have to comply with fitness requirement, as applicable under these rules;

(b) test procedure and safety guidelines and code of practice for such dual fuel CNG or Bio-CNG or LNG vehicles, kit components including installation thereof shall be as per AIS-024 and AIS-028. As amended from time to time, till such time as corresponding BIS specifications are notified:

(c) testing agencies will be required to indicate specifically, the models and variants on which the replacement of new engine shall be valid:

(d) mass emission standards for CNG or Bio-CNG or LNG dual fuel engines or vehicles shall be same as are applicable for diesel engines or vehicles with exception that the HC shall be replaced by NMHC (Non-Methane Hydrocarbon) on measurement basis.

(e) the test applicability requirements for dual fuel engine is depending on the Gas Energy Ratio (GER) measured over test-cycle applicable as per prevailing norms. GER classification shall be as per MoRTI-I/CMVR/TAP-115/116 (as amended from time to time) and notifications issued by the Central Government in this respect":

5c] (D) Applicable Emission Norms - The applicable emission norms shall be as per the following table, namely:—

Sl. No	Category of Engines	Applicable Emission Norms from Rule 115
1.	O.E. CNG or Bio-CNG or LNG Category M and Category N Vehicles with GVW equal to or less than 3,500 kg. three wheelers and two wheelers	Prevailing and applicable gasoline norms
2.	(CNG or Bio-CNG or LNG Category M and category N vehicles with GVW equal to or less than 3,500 kg. three and two wheelers retro fitment from gasoline vehicles	Prevailing and applicable gasoline norms
3.	CNG or Bio-CNG or LNG(dedicated/ dual fuel) category M and Category N vehicles with GVW equal to or less than 3,500 kg. three and two wheelers retro fitment from diesel vehicles	Prevailing and applicable diesel norms
4.	CNG or Bio-CNG or LNG(OE/retrofitted ;dedicated/ dual fuel) engines Category M and Category N vehicles with GVW greater than 3,500 kg manufactured up to 1 st April, 2010	Prevailing and applicable diesel engine norms based on 13-mode steady-state engine dynamometer test

		or 13- mode Engine Steady State Cycle as applicable
5.	CNG or Bio-CNG or LNG engines (OE/retrofitted ;dedicated/dual fuel) for Category M and Category N vehicles with GVW greater than 3.500 kg manufactured on the from 1 st April, 2010	Prevailing and applicable diesel engine emission norms":]

^{5c} Substituted by G.S.R 1151(E) dated 29-11-2018, (w.e.f 29-11-2018)

^{5d}[**E.** ^{5e}[CNG/bio-CNG/ LNG] / kit components including installation shall comply the Safety Checks as given in Annexure IX.]

F. Testing agencies shall issue every Type Approval certificate containing the "Safety and Procedural Requirements for Type Approval of CNG and LPC Operated Vehicles" for CNG vehicles and conversion kits, as mentioned in Annexure X.

Note:—

1. For the purpose of these rules, "O.E. fitment" means the vehicles which are manufactured for CNG operation by the vehicle manufacturer prior to their first registration.

2. "Conversion of In-use Gasoline Vehicle" means a vehicle already registered as a gasoline vehicle and is subsequently converted for operation on CNG by fitting the conversion kit and carrying out the other necessary changes.

3. "O.E. CNG Dedicated Vehicles "means the vehicles which are manufactured for CNG operation by the vehicle manufacturer prior to their first registration.

^{5f}[3(a) "O.E. LNG Dedicated Vehicle" means the vehicles which are manufactured for LNG operation by the vehicle manufacturers prior to their first registration;]

4. "Converted diesel vehicle "means a vehicle already registered as a diesel vehicle and is subsequently converted for operation on

^{5d}. Substituted by G.S.R. 534(E), dated 24-7-2014 (w.e.f. 24-7-2014).

^{5e}. Substituted by G.S.R. 643(E), dated 27-06-2017 for "CNG" (w.e.f. 27-06-2017).

^{5f}. Inserted by G.S.R. 643(E), dated 27-06-2017 for "CNG" (w.e.f. 27-06-2017).

CNG by modifying the diesel engine fitted on that vehicle by fitting the conversion kit and carrying out the other necessary changes.

5. "Retrofitment" (or replacement) of diesel vehicle means a vehicle already registered as a diesel vehicle and is subsequently converted for operation on CNG fitting a new engine adapted to operate on CNG.

6. The AIS or IS specifications may be amended from time to time.

⁶[7. In case of conversion kits on in-use gasoline vehicles or converted diesel vehicles, the validity of the type approval certificate issued by

the testing agencies shall cover vehicles manufactured between the year of manufacture of the vehicle, on which such kit has been tested and date of the validity of the applicable norms prescribed for such category of vehicles as per clause (a) of Item (II) of part A of rule115-B. Testing agencies shall be required to indicate specifically the model and their variants for diesel vehicles and capacity range of gasoline vehicles on which the certificate shall be valid for conversion.]

^{6a}[8. **O.E. Diesel and DualFuel CNG or Bio-CNG or LNG Vehicle means** vehicles which are manufactured for diesel and dual fuel CNG or Bio-CNG or LNG operation by vehicle manufacturer prior to their first registration.

9. Converted diesel vehicle to CNG or Bio-CNG or LNG dual fuel vehicle or dedicated LNG Vehicle means a vehicle already registered as diesel vehicle and is subsequently converted for CNG or Bio-CNG or LNG dual fuel or dedicated LNG by adding the CNG or Bio-CNG or LNG kit and other necessary changes.

10. Dual fuel engine operation shall mean a two — fuel system having diesel as a primary combustion fuel and CNG or Bio CNG or LNG as supplementary fuel. Such dual fuel engine may operate on diesel stand-alone mode in absence of gaseous fuel.

11. Dedicated Dual fuel engine operation shall mean a two — fuel system having diesel as a primary combustion fuel and CNG or Bio

⁶Substituted by G.S.R.589(E), dated 16-9-2005 (w.e.f.16-9-2006).

^{6a} Inserted by G.S.R 1151(E) dated 29-11-2018, (w.e.f 29-11-2018)

CNG or LNG as supplementary fuel and such dedicated dual fuel engine shall not operate on diesel stand-alone mode in absence of gaseous fuel or operation of the engine in diesel mode only shall be restricted by reduced power output to 40 percent to cater limp home mode and in such dedicated dual fuel engine. mass emission test will be carried out in dual fuel mode only.]

⁷[115-C Mass emission standards for Liquefied Petroleum Gas (hereinafter in this rule Referred to as LPG), driven vehicles. — ⁸[(1) Mass emission standards for vehicles when operating on Liquefied Petroleum Gas (here in after in this rule referred to as "LPG") shall be same as are applicable for gasoline vehicles with the exception that HC shall be replaced by Reactive Hydrocarbon (RHC), where RHC=0.5xHC]

(2) For gasoline vehicles with Original Equipment (here in after in this rule referred to as O.E.) Fitment,—

(a) In case of LPG fitment done by vehicle manufacturers on new petrol vehicles, each model made by vehicle manufacturer shall be as type approved as per prevailing type approval emission norms and these rules as applicable;

(b) Base model and variants of such vehicle shall conform to these rules as applicable And type approval emission norms in petrol mode as specified in these rules. In the case of LPG model, it shall meet mass emission norms as specified in rule 115 only excluding crank case and evaporative emission norms;

⁹(c) a vehicle models and variants having option for bi-fuel operation and fitted with limp-home Gasoline tank of capacity not exceeding two litres, three litres and five litres respectively on two-wheelers, three-wheelers and four-wheeler shall be exempted from mass emission tests including all tests specified under sub-rule (2), Notes 6 and 7 mentioned below clause © of rule (15) of rule 115 in Gasoline mode;

(d) Prevalent conformity of production procedure shall also be applicable.]

(3) For in-use gasoline vehicles, -

⁶[(a) On and after expiry of one year from the date of publication of the Central Motor Vehicles (Fifth Amendment) Rules, 2005 in the Official

⁷ Inserted by G.S.R.284(E),dated 24-4-2001 (w.e.f.24-5-2001).

⁸ Substituted by G.S.R. 111(E), dated 10-2-2004 (w.e.f. 10-8-2004)

⁹ Substituted by G.S.R.84(E),dated 9-2-2009 (w.e.f.9-2-2009)

Gazette, the in-use vehicles fitted with LPG kits shall meet the type approval emission norms specified in these rules for gasoline vehicles as applicable to the corresponding year of manufacture of such vehicle, subject to the following minimum norms:

(i) for the vehicles manufactured upto the 31st day of March, 2000, the type approval norms equivalent to India-2000 (India Stage I) norms as applicable under these rules;

^{9a}[(ii) for the vehicles manufactured after the 1st day of April, 2000, the type approval norms as specified in the Bharat Stage II norms till the validity of such Bharat Stage II norms;

(iii) for the vehicles manufactured after the 1st day of April, 2005, the type approval norms as applicable subject to minimum of Bharat Stage III emission norms in case of two-wheelers and Bharat Stage II emission norms for three-wheelers:

Provided that in respect of vehicle model/conversion kits/engine replacements type approved and certified under rule 115-C prior to commencement of these rules (as per notification number G.S.R. 284(E), dated the 24th April, 2001), such certificates shall cease to be valid after one year from the date of publication of the Central Motor Vehicles (Fifth Amendment) Rules, 2005, in the Official Gazette notwithstanding the period of validity specified in such certificates. Such certificates need to be revalidated by testing agencies in terms of these rules:

Provided further that respective kit manufacturer /retrofitter / converter shall be free to obtain from testing agencies type approval in terms of new rules even prior to commencement of these rules;]

^{9b}[(iv) for the vehicles manufactured on and after the 1st day of April 2010, the type approval norms as applicable, subject to minimum of Bharat Stage-IV emission norms for Category M and Category N vehicles with Gross Vehicle Weight not exceeding 3500 kg and Bharat Stage-III emission norms for two and three wheelers.]

(b) for purposes of LPG kit approval, kit manufacturer or supplier shall obtain the Certificate from any of the test agencies authorised under

^{9a}. Substituted by G.S.R. 498(E), dated 16-6-2015 (w.e.f. 16-6-2015).

^{9b}. Inserted by G.S.R.84(E), dated 9-2-2009 (w.e.f. 9-2-2009).

rule 126 based on capacity of vehicle, in the following manner, namely:—

(i) LPG kit for the vehicles shall be type approved for vehicles irrespective of make and model based on engine capacity in cubic cm. Such a kit shall be considered fit for retrofitment in any vehicle having engine capacity within a range of +-25% tolerance ;

^{9c}[(ii) separate type approval shall be necessary for the following types of vehicles –

- (a) Two stroke
- (b) Four stroke
- (c) Carbureted
- (d) Single point fuel injected; and
- (e) Multi point fuel injected.]

(4)(a) For the purpose of granting type approval to LPG kit the following performance tests shall be carried out by the test agencies:—

- (i) Massemission tests.
- (ii) Engine performance tests.
- (iii) Constant speed fuel consumption test;

(b) the tests specified under sub-clause (ii) of clause (a) shall be carried out either on engine dynamometer or chassis dynamometer as applicable under these rules. However in case of vehicle above 100 HP the tests shall be only on engine dynamometer;

(c) the safety checks for such kit components including installation shall be as per the norms and standards given in the Annexure VIII, apart from detailed test procedure or safety guide lines contained in AIS 025 DI, as approved by the Central Government from time to time;

(d)For OE fitment and retrofitment on "in-use" vehicles, the responsibility of Type Approval shall be that of the vehicle manufacturer and kit manufacturer or supplier, respectively;

(e) The Type Approval of LPG kit for retrofitment shall be valid for three years from the Date of issue of such approval and shall be renewable for three years at a time;

(f) The retrofitment of LPG kits on in-use vehicles, shall be carried out by

^{9c}. Substituted by G.S.R. 84(E), dated 9-2-2009 (w.e.f. 9-2-2009).

workshops authorised by the kit manufacturer/kit supplier or vehicle manufacturers, as the case may be;

(g) The test agency shall complete the test and give necessary certificate within a period of three months from the date of receiving the kits;

(h) The kit supplier/manufacturer shall provide a layout plan for retrofitment of LPG kit in the respective models on which any approved kit is to be installed, to the test agency for vetting and approval. The retrofitment of the kit shall be on the basis of such approved layout plan only.

¹⁰[** *]

¹¹[(6) For Diesel Vehicles with Original Equipment fitment.—

¹²[(i) In case of LPG fitments by vehicles manufacturers on new diesel vehicles, each model manufactured by vehicle manufacturers shall be type approved as per the prevailing mass emission norms as applicable for the category of new vehicles in respect of the place of its use;]

(ii) O.E. fitment LPG engine approved for specific appropriate engine capacity can be installed on the vehicle base model and its variants complying with the other requirements under these rules as applicable;

(iii) Tests for particulate matter and emission of visible pollutants (smoke) under these rules shall not be applicable; and

(iv) Prevailing COP procedures shall also be applicable;

(v) In case of limits for Hydrocarbons, the mass emission standards formula as specified in sub-rule (1) shall be applicable.

Explanation.—In the case of O.E. fitment vehicles:—

(a) For the purpose of granting Type Approval to the vehicle manufactured by O.E., in addition to the tests as specified in Central Motor Vehicles Rules, 1989, following performance tests shall be carried out, as per the Table given below by the test agency, namely:—

¹⁰. Sub-rule (5) omitted by G.S.R. 589(E), dated 16-9-2005 (w.e.f. 16-9-2005).

¹¹. Inserted by G.S.R. 788(E), dated 27-11-2002 (w.e.f. 2-6-2003).

¹². substituted by G.S.R. 589(E), dated 16-9-2005 (w.e.f. 16-9-2006).

TABLE

SI. No.	Test	Reference Document (as amended from time to time)
(1)	(2)	(3)
1.	Mass emission tests	MOST/CMVR/TAP-115/116 and notification issued by the Government of India in this respect
2.	Engine performance tests	IS:14599-1999
3.	Gradeability test	In accordance with notification issued under rule 124 of Central Motor Vehicles Rules,1989
^{12a} [4.	Fuel Consumption test	S1. No 31 of the notification number S.O 1365(E), dated the 13th December, 2004]
5.	Electro-Magnetic Interference (EMI)	In accordance with notification issued under rule 124 of Central Motor Vehicles Rules,1989
6.	Range test of at least 250 Km for buses. For other vehicle categories range test to be carried out and test results to be reported.	AIS 055
7.	Cooling performance	IS:14557-1998

^{12a}.Substituted by G.S.R. 84(E), dated 9.2.2009 (w.e.f. 9.2.2009)

Note:—The mass emission tests shall be carried out either on engine dynamometer or chassis dynamometer, as applicable;

(b) Test procedure and safety guidelines for LPG vehicles, kit components including Installation thereof, shall be as per AIS 025, AIS 026, AIS 027 as amended from time to time, till such time as corresponding BIS specifications are notified and shall be as given in Annexure –VIII in addition to the detailed procedure of Safety Checks contained in AIS 025, AIS026, AIS027;

(c) For O.E. fitment manufactured vehicles, the responsibility of Type Approval shall be that of the vehicle manufacturer;

(d) The test agency shall complete the test and give necessary certificate within a period of three months from the date of receiving the kits.

¹³[(7) Replacement of In-use Diesel Engine by new LPG Engine.—For type approval of in-use vehicle having diesel engine replaced by new Liquefied Petroleum Gas engine it shall meet the prevailing emission norms as applicable

¹³.Substituted by G.S.R. 589(E), dated 16.9.2005 (w.e.f. 16.9.2005)

to the category of vehicles in respect of its place of use subject to the tests mentioned in the Table given below]:—

TABLE

SI. No.	Test	Reference Document (as amended from time to time)
(1)	(2)	(3)
1.	Mass emission tests	MCST/CMVR/TAP-115/116 and notification issued by the Government of India in this respect
2.	Engine performance tests	IS:14599-1999
3.	Gradeability test	In accordance with notification issued under rule 124 of Central Motor Vehicles Rules, 1989
^{13a} [4.]	Fuel Consumption test	S1. No.31 of the notification number S.O. 1365(E), dated the 13th December, 2004]
5.	Electro-Magnetic Interference (EMI)	In accordance with notification issued under rule 124 of Central Motor Vehicles Rules, 1989
6.	Range test of at least 250 km for buses. For other vehicle categories, range test to be carried out and test results to be reported.	AIS 055
7.	Cooling performance	IS:14557-1998

^{13a}.Substituted by G.S.R. 84(E), dated 9-2-2009 (w.e.f. 9-2-2009).

(c) Test procedure and safety guidelines for such LPG vehicles, kit components including installation there of shall be as per AIS 025, as amended from time to time, till such time as corresponding BIS specifications are notified and shall be as given in Annexure VIII in addition to the detailed procedure or Safety checks contained in AIS 025;

(d) The test agency shall complete the test and give necessary certificate within a period Of three months from the date of the vehicle being submitted for tests; and

(e) The test agency shall be required to indicate specifically, the models and their variants on which the replacement of new engine shall be valid.

(8) Applicable emission norms.—The emission norms as mentioned in column (3) of the Table below excluding particulate matter shall be applicable to the corresponding categories of engines as mentioned against them in column (2) of the said Table.

TABLE

SI. No.	Category of Engines	Applicable Emission Norms
(1)	(2)	(3)
^{13a} [(i)]	OE LPG Category M and Category N Vehicles with GVW equal to or less than 3,500 kg, three wheelers and two wheelers	Prevailing gasoline norms
(ii)	LPG Category M and Category N Vehicles with GVW equal to or less than 3,500 kg, three and two wheelers retro fitment from gasoline vehicles.	Prevailing gasoline norms
(iii)	LPG Category M and Category N vehicles with GVW equal to or less than 3,500 kg, three and two wheelers retro fitment from diesel vehicles.	Prevailing diesel norms
(iv)	LPG engines Category M and Category N vehicles with GVW greater than 3,500 kg manufactured up to 1st April 2010	Prevailing diesel engine norms based on 13-mode steady state engine dynamometer test or 13-mode Engine Steady State Cycle as applicable
(v)	LPG engines for Category M and Category N vehicles with GVW greater than 3,500 kg manufactured on and from 1st April 2010	Prevailing diesel engine emission norms.]

(9) LPG vehicle/kit components including installation shall comply with the Safety Checks as given in Annexure VIII.

(10) The test agency shall, in addition to the Type Approval Certificate, issue Safety and Procedural Requirements for Type Approval Certificate containing the Safety and Procedural Requirements for Type Approval of CNG and LPG Operated Vehicles, for LPG vehicles and conversion kits, as mentioned in Annexure X.

Note:—For the purposes of these rules,—

(1) "OE fitment" means the vehicle engines which are manufactured for LPG operation by the vehicle manufacturer prior to their first registration;

(2) "Conversion of In-use gasoline vehicle" means a vehicle already registered as a gasoline vehicle and subsequently converted for operation on LPG by fitting the conversion kit and carrying out the other necessary changes;

(3) "O.E. fitment LPG dedicated vehicle "means a vehicle which is manufactured for LPG operation by the vehicle manufacturer prior to their first registration;

(4) "Type approval of In-use vehicle having diesel engine replaced by new LPG engine" means a vehicle already registered as a diesel vehicle and is subsequently converted for operation on LPG by fitting a new engine adapted for operation on LPG;

(5) The AIS or IS specifications may be as amended and notified from time to time.]

¹⁴[(6) In case of conversion kits on in-use gasoline vehicles or replacement of in-use diesel engines by new LPG engines, the validity of the type approval certificates issued by the testing agencies shall cover vehicles manufactured between the year of manufacture of the vehicle, on which such kit had been tested and the date of validity of the norms prescribed for such category of vehicles as per clause (a) of sub-rule (3) of rule 115-C. Testing agencies shall be required to indicate specifically, the model and their variants for diesel vehicles and capacity range of gasoline vehicles on which the certificate shall be valid for conversion.]

^{14a}**[115-D. Retro-fitment of hybrid electric system or electric kit to vehicles. –**

(1) Retro-fitment of hybrid electric system kit to motor vehicles or conversion of motor vehicles for pure electric operation with fitment of or Pure Electric System Kitspecified in column (2) of the Table shall confirm to the compliance Standard as specified in column (3) of Table given below.

¹⁴.Inserted by G.S.R. 589(E), dated16-9-2005(w.e.f.16-9-2006).

^{14a}. substituted by G.S.R No. 167(E) dated 01-03-2019, (w.e.f 01-03-2019)

TABLE

Sr.No.	Type of Retro-fitment or Conversion and Motor Vehicle Categories	Compliance standard
(1)	(2)	(3)
1	Retro-fitment of Hybrid Electric System Kit to vehicles of categories L, M and N having Gross Vehicle Weight not exceeding 3500 kg.	Shall conform to the requirements stipulated in *AIS-123 (Part 1)
2	Retro-fitment of Hybrid Electric System Kit to vehicles of categories M and N having Gross Vehicle Weight exceeding 3500 kg	Shall conform to the requirements stipulated in *AIS-123 (Part 2)
3	Conversion of motor vehicles for pure electric operation with fitment of Pure Electric Propulsion Kit by replacing the engine of Motor Vehicles of categories L, M, N	Shall conform to the requirements stipulated in AIS-123 (Part 3)

Note:

* AIS-123 Part 1 or 2 or 3 as amended from time to time till such time as corresponding Bureau of Indian Standard specifications are notified under the Bureau of Indian Standards Act, 2016 (11 of 2016) shall be used as applicable:

Provided further that manufacturer or supplier of hybrid electric system kit or pure electric system kit shall obtain the type approval certificate from a test agency specified in rule 126 as per the applicable standard referred in the above mentioned Table.”.

^{14b}[115-E. Mass emission standard for flex-fuel ethanol (E85) or (E100) and ethanol (ED95) vehicles] - ^{14ba}[(1) The newly manufactured gasoline vehicles fitted with spark ignition engine compatible to run on gasoline or a mixture of gasoline and ethanol up to 85 per cent. Ethanol blend (E85) or mixture of gasoline and ethanol up to 100 per cent (E100), (hereinafter referred to as flex-fuel ethanol vehicle), shall be type approved as per prevailing gasoline emission norms.]

(2) The newly manufactured ethanol vehicle with Gross Vehicle Weight above 3.5 tonnes compatible to run on ethanol fuel (ED95), shall be type approved as per prevailing diesel emission norms, as applicable for that category.

^{14ba} [(3) The compatibility of vehicle to level of ethanol blend of E85 or E100 or ED95 shall be defined by the vehicle manufacturer and the same shall be displayed on vehicle by putting a clearly visible sticker.]

^{14b}.Substituted by G.S.R. 682(E), dated 12-07-2016 (w.e.f 12-07-2016).

^{14ba} Substituted by G.S.R. 682(E), dated 12-07-2016 (w.e.f 12-07-2016).

(4) Test requirements for the type approval and extension for different classes of vehicles are specified in Table 1, Table 2 and Table 3 below, respectively:-

^{14ba}**[TABLE 1**
Test requirements for type approval and extension
For four wheeled vehicles with Gross Vehicle Weight less than or equal to
3,500 kg

S. No.	Test	Flex-fuel ethanol vehicle
1	Gaseous pollutants (Type I test)	On both gasoline and E85 or E100 fuel
2	Idle and high idle emission (Type II test)	On both gasoline and E85 or E100 fuel
3	Crank case emission (Type III)	Only on gasoline fuel
4	Evaporative emissions (Type IV)	Only on gasoline fuel
5	Durability (Type V)	Only on gasoline fuel
6	On-board diagnostics (OBD II)	On both gasoline and E85 or E100 fuel

TABLE 2
Test requirements for type approval and extension for two or three wheeled vehicles

S. No.	Test	Flex-fuel ethanol vehicle
1	Gaseous pollutants (Type I test)	On both gasoline and E85 or E100 fuel
2	Idle and emission (Type II test)	On both gasoline and E85 or E100 fuel
3	Crankcase emission (Type III)	Only on gasoline fuel
4	Evaporative emissions (Type IV)	Only on gasoline fuel
5	Durability (Type V)	Only on gasoline fuel]

TABLE 3
Test requirements for type approval and extension for four wheeled vehicles with gross vehicle weight greater than 3,500 kg

S. No.	Test	Applicability
1	Gaseous pollutants	Test on ED95 fuel (as per prevailing emission norms BSIII or BIV)
2	Free acceleration smoke	Test on ED95
3	Durability, if opted for, instead of fixed deterioration factor	Test on ED95
4	On-board diagnostics (OBD)	Test on ED95

Note. - (i) Mass emission tests shall be carried out as per MoRTH/CMVR/TAP-115/116 Issue 4 and its subsequent issues or amendments, as applicable and suitable updation of the ratios of gas component densities to exhaust gas density, hydrogen-carbon-oxygen ratio and fuel consumption formula shall be done in type approval procedure.

(ii) Vehicle manufacturer shall submit the vehicle to any of the test agencies specified in rule 16, for type approval.

(iii) Flex fuel vehicles with Gross Vehicle Weight less than or equal to 3.5 tonnes shall be tested on chassis dynamometer using the prevailing gasoline vehicle emission driving cycle; and ED95 fuel vehicles with Gross Vehicle Weight greater than 3.5 tonnes shall be tested on engine dynamometer using the prevailing diesel engine emission driving cycle.

(iv) Flex fuel vehicles shall be tested with reference fuel specified in Annexure IV-J and IV-Q and pure ethanol fuel vehicle shall be tested with reference fuel specified in Annexure IV-R to these rules.

(v) For Conformity of Production test applicability, refer to MoRTH/CMVR/TAP-115/116 Issue 4 and its subsequent issues. Or amendments, as applicable; and fuel requirement for applicable tests, refer to above Table 1, Table 2 and Table 3.

(vi) The reference fuel shall be as specified in Annexure Iv-J for gasoline; Annexure IV-Q for E85 vehicles and in Annexure IV-R for Ed95 vehicles.

(vii) For commercial fuel specifications for gasoline IS 2796:2008 and its subsequent amendments may be referred.

(viii) For base ethanol specifications refer IS 15464:2004 and for E85 and ED95 commercial fuel, oil marketing companies shall use suitable additives to produce and dispense such grade of fuel. Specification for commercial E85 and ED95 shall be prepared by Bureau of Indian Standards.

(ix) The Conformity of Production frequency and sampling shall be as per requirements given in MoRTH/CMVR/TAP-115/116 Issue 4 and its subsequent issues or amendments, as applicable, according to category or vehicle.

(x) Deterioration factors shall be as per prevailing emission norms, according to the vehicle categories, where durability test is applicable.

(xi) For spark ignition vehicle, where measurement of net power is specified in the case of normal gasoline vehicles, it shall be carried out on engine dynamometer as per IS: 14599-1999, with gasoline, as amended from time to time.

^{14c}[(xii) "The reference fuel shall be as specified in Annexure IV-J for gasoline; Annexure IV - S for E100 vehicles.]

^{14ca}[**115-F. Mass emission standards for bio-diesel (B100).**]- (1) The newly manufactured vehicles fitted with compression ignition engine compatible to run on diesel or mixture of bio-diesel up to hundred per cent. Bio-diesel (B100) (hereinafter referred to as flex-fuel bio-diesel vehicle), shall be type approved as per prevailing diesel emission norms.

(2) The compatibility of vehicle to level of bio-diesel blend or B100 shall be specified by the vehicle manufacturer and the same shall be displayed on vehicle by putting a clearly visible sticker.

(3) Test requirements for the type approval and extension for different classes of vehicles are specified in Table 1, Table 2 and Table 3 below, respectively:-

TABLE 1
Test requirements for type approval and extension for four wheeled vehicles
with gross vehicle weight less than or equal to 3,500 kilograms

S. No	Test	Flex-fuel bio-diesel vehicle
1.	Gaseous pollutants (type I test)	On both diesel and B100 fuel
2.	Free acceleration smoke (type II Test)	On both diesel and B100 fuel
3.	Durability (Type V), if opted for instead of fixed Deterioration Factor (DF)	Only on diesel fuel
4.	On-board diagnostics (India OBD II)	On both diesel and B100 fuel

TABLE 2
Test requirements for type approval and extension for three wheeled vehicles.

S. No	Test	Flex-fuel bio-diesel vehicle
1.	Gaseous pollutants (Type I test)	On both diesel and B100 fuel
2.	Free acceleration smoke (Type II test)	On both diesel and B100 fuel
3.	Durability (Type V test), if opted for instead of fixed Deterioration Factor	Only on diesel fuel

^{14c}.Inserted by G.S.R. 682(E), dated 12-07-2016 (w.e.f 12-07-2016).

^{14ca}.Inserted by G.S.R. 412(E), dated 11-4-2016 (w.e.f. 11-4-2016).

Table 3
Test requirements for type approval and extension for four wheeled vehicles
with gross vehicle weight greater than 3,500 kg.

S. No	Test	Flex-fuel bio-diesel vehicle
1.	Gaseous pollutants	On both diesel and B100 fuel
2.	Free acceleration smoke	On both diesel and B100 fuel
3.	Durability, if opted for instead of fixed DF	Only on diesel fuel
4.	On-board diagnostics (OBD)	On both diesel and B100 fuel

Diesel vehicles which are declared as compatible to run on bio diesel up to 20 per cent. Blend shall be tested only with Reference Diesel Fuel for prevailing emission norms.

Notes. – (1) Mass emission tests shall be carried out as per MoRTH/CMVR/TAP-115/116 Issue 4 and its subsequent issues or amendments, as applicable, and suitable updation of the ratio of gas components densities to exhaust gas density, hydrogen-carbon-oxygen ratio and fuel consumption formula shall be done in type approval procedure.

(2) Vehicle manufacturer shall submit the vehicle to any of the test agencies specified in rule 126, for type approval.

(3) Bio-diesel vehicles with Gross Vehicle Weight less than or equal to 3.5 tonne shall be tested on chassis dynamometer using the prevailing diesel vehicle emission driving cycle and the B100 fuel vehicles with Gross Vehicle Weight greater than 3.5 tonne shall be tested on engine dynamometer using the prevailing diesel engine emission driving cycle.

(4) Bio-diesel vehicles shall be tested with reference fuel (as per IS 15607:2005) specified in Annexure IV-S to those rules.

(5) For Conformity of Production test applicability, refer to MoRTH/CMVR/TAP-115/116 Issue 4 and its subsequent issues or amendments, as applicable; and for fuel requirement for applicable tests, refer to above Table 1, Table 2 and Table 3.

(6) The Conformity of Production frequency and sampling shall be as per requirements given in MoRTH/CMVR/TAP-115/116 Issue 4 and its subsequent issues or amendments, as applicable, according to category of vehicle.

(7) Deterioration factors shall be as per prevailing emission norms, according to the vehicle categories.]

^{14cb}[**115G. Fuel consumption standard.**- (1) Every manufacturer or importer of M1 motor vehicles which are type approved under rule 126, with at least four wheels, other than quadricycles, used for carriage of passengers and their luggage and comprising not more than nine seats including driver's seat, and of gross vehicle weight not exceeding 3,500 kilograms, manufactured or imported for sale in India, shall on and from the 1st day of April, 2017, comply with the Average Fuel consumption Standard, notified under the Energy Conservation Act, 2001 vide notification of the Government of India in the Ministry of Power number 1072 (E), dated the 23rd April, 2015.

(2) The procedure for ensuring compliance under sub-rule (1) shall be as laid down in Document No. MoRTH/CMVR/ TAP-115/116, as amended from time to time.

(3) The procedure specified under sub-rule (2) shall be evaluated annually by the International Centre for Automotive Technology (ICAT), Manesar.]

^{14d}[115H. Mass emission standards for flex-fuel Methanol ^{14da}[M15 or M100 or M85 and Methanol MD 95] vehicles. - (1) The newly manufactured gasoline vehicles fitted with spark ignition engine compatible to run on ^{14da}[gasoline or a mixture of fifteen percent methanol in gasoline (M15) or up to eighty-five per cent methanol blend (M85) or hundred percent methanol (M100)], (hereinafter referred to as flex-fuel methanol vehicle), shall be the type approved as per the prevailing gasoline emission norms.

(2) The newly manufactured methanol vehicle with Gross Vehicle Weight above 3,500 kilograms compatible to run on methanol fuel (MD95), shall be the type approved as per the prevailing diesel emission norms, as applicable for that category.

(3) The compatibility of vehicle to level of methanol blend ^{14da}[M15/M85/M100/MD95] shall be defined by the vehicle manufacturer and the same shall be displayed on the vehicle by affixing a clearly visible sticker,

(4) Test requirements for the type approval for different classes of vehicles are specified in Table 1, Table 2 and Table 3. respectively:

^{14cb}.Inserted by G.S.R. 954(E), dated 04-10-2016 (w.e.f. 05-10-2016).

^{14d}.Inserted by G.S.R. 490(E), dated 24-05-2018 (w.e.f. 24-05-2018).

^{14da} Substituted by G.S.R. 37(E), dated 17-01-20120 (w.e.f. 17-01-2020)

Table 1
Test requirements for type approval for M and N category vehicles with Gross Vehicle Weight not exceeding 3.500 kilograms

Sr. No.	Test	Applicability
1.	Gaseous pollutants (Type I test)	^{14da} [On both Gasoline and M15 or M85 or M100 fuel (As per prevailing gasoline emission norms)]
2.	Idle and high idle emission (type II Test)	
3.	Crankcase emission (Type III)	Only on Gasoline fuel
4.	Evaporative emissions (Type IV)	Only on Gasoline fuel
5.	Durability (Type V)	Only on Gasoline fuel
6.	On-board diagnostics (OBD) OBD I/ OBD II as applicable	^{14da} [On both Gasoline and M15 or M85 or M100 fuel (As per prevailing gasoline emission norms)]

Table 2
Test requirements for type approval for two or three wheeled vehicles

Sr. No.	Test	Applicability
1.	Gaseous pollutants (Type I Test)	^{14da} [On both Gasoline and M15 or M85 or M100 fuel (As per prevailing gasoline emission norms)]
2.	Idle and emission (Type II Test)	
3.	Crankcase emission (Type III)	Only on Gasoline fuel
4.	Evaporative emissions (Type IV)	Only on Gasoline fuel
5.	Durability (Type V)	Only on Gasoline fuel
6.	On-board diagnostics (OBD)-OBD I /OBD II as applicable	^{14da} [On both Gasoline and M15 or M85 or M100 fuel (As per prevailing gasoline emission norms)]

Table 3
Test requirements for type approval for M and N category vehicles with Gross Vehicle Weight greater than 3.500 kilograms

Sr. No.	Test	Applicability
1.	Gaseous Pollutants	Test on MDQS
2.	Free acceleration smoke	
3.	Durability	
4.	On-board diagnostics (OBD)	

Notes -

1. Mass emission tests shall be carried out as per MoRTI-I/ CMVR / TAP-II5/II6 Issue 4 or AIS I37. As amended from time to time. as applicable and suitable updation of the ratios of gas component densities to exhaust gas density, hydrogen-carbon-oxygen ratio and fuel consumption formula shall be done in type approval procedure.
2. Vehicle manufacturer shall submit the vehicle to any of the test agencies specified in nrle 126, for type approval.

3. Flex fuel vehicles with Gross Vehicle Weight not exceeding 3,500 kilograms shall be tested on chassis dynamometers using the prevailing gasoline vehicle emission driving cycle.

4. Methanol fuel vehicles with Gross Vehicle Weight greater than 3.5 tonnes shall be tested on engine dynamometers using the prevailing diesel engine emission driving cycle.

5. ^{14da}[M15, M85 ,M100 and MD95] vehicles shall be tested with reference fuel as notified by Government of India from time to time. Till availability of reference fuels. testing shall be done on commercially available methanol or methanol gasoline blends.

6. Specifications for ^{14da}[M15, M85 ,M100 and MD95] fuels to be prepared by Bureau of Indian Standards (BIS). Oil manufacturing companies shall use suitable additives to produce and dispense such grades of fuels.

7. Flex fuel vehicles shall be tested with reference fuel specified in Annexures IV-Y and methanol fuel vehicle shall be tested with reference fuel specified in ^{14da}[Annexure IV- Z, Annexure IV – ZA and Annexure – ZB] to these rules.

8. For Conformity of Production test applicability, refer to MoRTH/ CMVR/ TAP-115/116 Issue 4 or AIS-I37 as amended from time to time, as applicable and fuel requirements for applicable tests. refer to Table 1, Table 2 and Table-3.

9. The reference fuel for Gasoline shall be specified by Government of India from time to time.

10. For commercial fuel specifications for gasoline IS 2796:2008 and its subsequent amendments may be referred.

11. The Conformity of Production frequency and sampling shall be as per requirements given in MoRTH/CMVR/TAP-115/116 issue 4 or AIS-137 as amended from time to time, as applicable. according to category of vehicle.

12. Deterioration factors shall be as per prevailing emission norms, according to the vehicle categories. Where durability test is applicable.

13. For spark ignition vehicle. where measurement of net power is specified in the case of normal gasoline vehicle. it shall be carried out on engine dynamometer as per IS: 14599-1999 with ^{14da}[gasoline and M15 or M85 or M100] fuels as amended from time to time.".

^{14e}[115-I. Mass emission standards for Di-Methyl Ether (DME or D100)

Vehicles.- (1) The newly manufactured vehicles fitted with compression ignition engine compatible to run on diesel or hundred per cent Di-Methyl Ether (D100) (hereinafter referred to as the DME vehicle in this rule), shall be type approved as per prevailing diesel emission norms.

(2) The DME vehicle shall be specified by the vehicle manufacturer by affixing clearly visible sticker.

(3) Test requirements for the type approval and extension for different classes of vehicles shall be as per the following Table 1, Table 2 and Table 3, respectively namely:-

TABLE 1

Test requirements for type approval and extension for Four Wheeled Vehicles with Gross Vehicle Weight less than or equal to 3,500 kilogram

Sl. No.	Test	DME vehicle
(1)	(2)	(3)
1.	Gaseous pollutants (Type I test)	On Diesel and D100 fuel (as per prevailing emission norms)
2.	Free acceleration smoke (type II Test)	
3.	Durability (Type V), if opted for instead of fixed Deterioration Factor (DF)	Only on Diesel fuel
4.	Onboard diagnostics (OBD II)	On both Diesel and D100 fuel

TABLE 2

Test requirements for type approval and extension for three wheeled vehicles

Sr. No.	Test	DME vehicle
(1)	(2)	(3)
1.	Gaseous pollutants (Type I test)	On Diesel and D100 fuel (as per prevailing emission norms)
2.	Free acceleration smoke (type II Test)	
3.	Durability (Type V), if opted for instead of fixed Deterioration Factor (DF)	Only on Diesel fuel

^{14e}. Inserted by G.S.R. 37 (E), dated 17-01-20120 (w.e.f. 17-01-2020).

TABLE 3

Test requirements for type approval and extension for Four Wheeled Vehicles with Gross Vehicle Weight greater than 3,500 kg

Sr. No.	Test	Flex-fuel methanol vehicle
(1)	(2)	(3)
1.	Gaseous pollutants (Type I test)	On Diesel and D100 fuel (as per prevailing emission norms)
2.	Free acceleration smoke (type II Test)	
3.	Durability (Type V), if opted for instead of fixed Deterioration Factor (DF)	Only on Diesel fuel
4.	Onboard diagnostics (OBD II)	On both Diesel and D100 fuel

Notes:-

1. Mass emission tests shall be carried out as per MoRTH/CMVR/TAP-115/116 Issue 4 and its subsequent issues or amendments, as applicable, and suitable Updation of the ratio of gas component densities to exhaust gas density, hydrogen-carbon-oxygen ratio and fuel consumption formula shall be done in type approval procedure.
2. Vehicle manufacturer shall submit the vehicle to any of the test agencies specified in rule 126, for type approval.
3. (i) DME vehicles with Gross Vehicle Weight less than or equal to 3.5 ton shall be tested on chassis dynamometer using the prevailing diesel vehicle emission driving cycle.
(ii) D100 fuel vehicles with Gross Vehicle Weight greater than 3.5 ton shall be tested on engine dynamometers using the prevailing diesel engine emission driving cycle.
4. DME vehicles shall be tested with reference fuel (as per ISO 16861:2015)as specified in Annexure IV-ZC to these rules.
5. For Conformity of Production test applicability, refer to MoRTH/CMVR/TAP-115/116 Issue 4 and its subsequent issues or amendments, as applicable; and for fuel requirement for applicable tests, refer to Table 1, Table 2 and Table 3 above.
6. The Conformity of Production (CoP) frequency and sampling shall be as per requirements specified in MoRTH/CMVR/TAP-115/116 Issue 4 and its subsequent issues or amendments, as applicable, according to category of vehicle.

7. Deterioration factors shall be as per prevailing emission norms and according to the vehicle categories.]

116. Test for smoke emission level and carbon monoxide level for motor vehicles.-¹⁵[(1) Notwithstanding anything contained in sub-rule (7) of rule 115 any officer not below the rank of sub-Inspector of Police or the Inspector of Motor Vehicles who has reason to believe that a motor vehicle is not complying with the provision of sub-rule (2) or sub-rule (7) of rule 115, may, in writing, direct the driver or any person incharge of the vehicle to submit the vehicle for conducting the test to measure the standards of emission in any one of the authorized testing stations, and produce the certificate to an authority at the address mentioned in the written direction within 7 days from the date of conducting the check.

(2)The driver or any other person in charge of the vehicle shall upon such direction by the officer referred to in sub-rule (1) submit the vehicle for testing for compliance of the provisions of ¹⁶[sub-rule (2) and sub-rule (7) of rule 115], at any authorized testing station.

(3)The measurement for compliance of the provisions of ¹⁶[sub-rule (2) and sub-rule (7) of rule 115] shall be done with a meter of the type approved by any agency referred to in rule 126 of the principal rules or by the National Environmental Engineering Research Institute, Nagpur – 440 001:

¹⁶[Provided that such a testing agency shall follow MoSRTH/CMVR/TAP-115/116 for approval of measuring metres;]

(4)If the result of the tests indicate that the motor vehicle complies with the provisions of ¹⁶[sub-rule (2) and sub-rule (7) of rule 115], the driver or any person incharge of the vehicle shall produce the certificate to the authority specified in sub-rule (1) within the stipulated time-limit.

(5) If the test results indicate that the motor vehicle does not comply with the provisions of the ¹⁶[sub-rule (2) and sub-rule (7) of rule 115], the driver or any person incharge of the vehicle shall rectify the defects so as to comply with the provisions of the sub-rule (2) of rule 115 within a period of 7 days and

¹⁵. Substituted by G.S.R. 338 (E), dated 26-3-1993 (w.e.f. 26-3-1993).

¹⁶ Substituted by G.S.R. 276(E), dated 10-4-2007 (w.e.f. 10-4-2007).

submit the vehicle to any authorized testing stations to the authority referred to in sub-rule (1).

(6) If the certificate referred to in sub-rule (1) is not produced within the stipulated period of seven days or if the vehicle fails to comply with the provisions of ¹⁷[sub-rule (2) and sub-rule (7) of rule 115] within a period of seven days, the owner of the vehicle shall be liable for the penalty prescribed under sub-section (2) of section 190 of the Act.

(7) If the driver or any person incharge of the vehicle referred to in sub-rule (1) does not produce the said certificate within the said period of 7 days, such vehicle shall be deemed to have contravened the provisions of the sub-rule (2) of rule 115 and the checking officer shall report the matter to the registering authority.

(8) The registering authority shall on receipt of the report referred to in sub-rule (7), for reasons to be recorded in writing suspend the certificate of registration of the vehicle, until such time the certificate is produced before the registering authority to the effect that the vehicle complies with the provisions of ,^{17a}[sub-rule (2) and sub-rule (7) of rule 115].

(9) On such suspension of the certificate of registration of the vehicle, any permit granted in respect of the vehicle under Chapter V or under Chapter VI of the Motor Vehicles Act, 1988(59 of 1988) shall be deemed to have been suspended until a fresh "Pollution under control" certificate is obtained.]

Speed Governors

117.Speedometer.—(1)¹⁸[Every motor vehicle (including construction equipment vehicle), other than an invalid carriage] or a vehicle, the designed speed of which does not exceed thirty kilometres per hour, shall be fitted with an instrument (hereinafter referred to as "speedometer") so constructed and fixed in such a position as to indicate to the driver of the vehicle the speed at which the vehicle is travelling:

¹⁹[Provided that every agricultural tractor ^{19a}[and combine Harvester] shall be fitted with an Engine RPM-cum-Hour Meter:]

¹⁷.Substituted by G.S.R.111(E), dated 10-2-2004, for "sub-rule (2) of rule 115"(w.e.f. 10-8-2004).

^{17a}. Substituted by G.S>R. 111(E), dated 10-2-2204, for "sub-rule (2) of rule 115" (w.e.f.10-8-2004).

¹⁸. Substituted by G.S.R. 642(E), dated 28-7-2000, for "Every motor vehicle, other than an invalid carriage" (w.e.f. 29-7-2000).

^{18a}. Substituted by G.S.R. 709(E), dated 8-10-2014 (w.e.f. 8-10-2014).

¹⁹.Inserted by G.S.R. 338(E), dated 26-3-1993 (w.e.f. 26-3-1993).

^{19a}.Inserted by G.S.R. 212 (E), dated 20-3-2015 (w.e.f. 1-4-2015).

²⁰[Provided further that the requirement of provision of speedometer is exempted for construction equipment vehicle in which the driver's cabin rotates about a vertical axis.]

^{20a}[Provided also that a vehicle of which, designed speed does not exceed thirty kilometers per hour shall be exempted from the purview of sub-rule (1).]

²¹[(2) On an expiry of one year and three months from the date of commencement of the Central Motor Vehicles (Amendment) Rules, 1999, every motor vehicle manufactured shall be fitted with a speedometer conforming to the requirements of IS:11827—1995 specified by Bureau of Indian Standards, as amended from time to time.

(3) On and after the commencement of the Central Motor Vehicles (Sixth Amendment) Rules, 2000, every construction equipment vehicle manufactured shall be fitted with a speedometer that shall conform to the requirements of IS: 11827 specified by the Bureau of Indian Standards concerning the speedometer.]

²²[(4) Every quadricycle manufactured on and after 1st October 2014, shall be fitted with a speedometer conforming to the requirements of Indian Standards : 11827-2008 specified by Bureau of Indian Standards.]

23[**118.Speed governor.**—(1) Every transport vehicle notified by the Central Government under sub-section (4) of section 41 of the Motor Vehicle Act, 1988 (58 of 1988), save as provided herein, and manufactured on or after the 1st October, 2015 shall be equipped or fitted by the vehicle manufacturer, either in the manufacturing stage or at the dealership stage, with a speed governor (speed limiting device or speed limiting function) having maximum pre-set speed of 80 kilometre per hour conforming to the Standard AIS 018/2001, as amended from time to time:

Provided further that the transport vehicles that are –

- (i) Two wheelers;
- (ii) three wheelers;
- (iii) quadricycle;

²⁰.Inserted by G.S.R. 642(E), dated 28-7-2000 (w.e.f. 28-7-2000).

^{20a} Proviso Inserted by G.S.R. 1225(E), dated 20-12-2018 (w.e.f. 20-12-2018).

²¹.Substituted by G.S.R.291(E), dated 24-4-2014 (w.e.f. 24-4-2014).

²².Inserted by G.S.R. 99(E), dated 19-2-2014 (w.e.f. 1-10-2014).

²³.Substituted by G.S.R. 290(E), dated 15-4-2015, for R.118 (w.e.f. 15-4-2015).

- (iv) ^{23a}[*****]
- (v) fire tenders;
- (vi) ambulances;
- (vii) police vehicles;
- (viii) verified and certified by a testing agency specified in rule 126 to have maximum rated speed of not more than 80 kilometre per hour, shall not be required to be equipped or fitted with speed governor (speed limiting device or speed limiting function):

Provided further that the transport vehicles manufactured on or after 1st October, 2015 that are dumpers, tankers, school buses, those carrying hazardous goods or any other category of vehicles, as may be specified by the Central Government by notification in the Official Gazette from time to time, shall be equipped or fitted by the vehicle manufacturer, either in the manufacturing stage or at the dealership stage, with a speed governor (speed limiting device or speed limiting function) having maximum speed of 60 kilometre per hour conforming to the Standards A1S 018/2001, as amended from time to time.

(2) The state government shall, by notification in the official Gazzette, specify on or before 1st October, 2015, the categories of transport vehicles registered prior to the 1st October, 2015 which are not already fitted with a speed governor (speed limiting device or speed limiting function), and or not covered under the first proviso to sub-rule (1) above, that such transport vehicles shall be equipped or fitted by the operators of those vehicles on or before 1st April, 2016 with a speed governor (speed limiting device or speed limiting function), having maximum pre-set speed of 80 kilometre per hour or such other lower speed limit as may be specified by the State Government from time to time, conforming to the Standard AIS : 018/2001, as amended from time to time.

Provided that the categories of transport vehicles carrying hazardous goods and those transport vehicles that are dumpers, tankers or school buses, registered prior to the 1st October, 2015 and not already fitted with a speed governor (speed limiting device or speed limiting function) shall be equipped or fitted by the operators of such vehicles, with a speed governor

^{23a} Omitted by G.S.R. 424(E), dated 01-05-2017 (w.e.f 01-05-2017).

(speed limiting device or speed limiting function), having maximum pre-set speed of 60 kilometre per hour or such other lower speed limit as may be specified by the State Government, conforming to the Standard AIS : 018/2001, as amended from time to time.

^{23b}[^{23b}(3). An Airport Passenger Bus, referred to in rule 93C, shall be equipped or fitted with a speed governor (speed limiting device or speed limiting function) having maximum pre-set speed of thirty kilometer per hour or such lower speed limit as specified by the State Government from time to time, conforming to the standard AIS: 018/2001 as amended from time to time.]

Reduction of noise

119.Horns.—(1) ²⁴[On and after expiry of one year from the date of commencement of the Central Motor Vehicles (Amendment) Rules, 1999, ²⁵[every motor vehicle, agricultural tractor, power tiller and construction equipment vehicle] manufactured shall be fitted with an electric horn or other devices conforming to the requirements of IS: 1884—1992, specified by the Bureau of Indian Standards] for use by the driver of the Vehicle and capable of giving audible and sufficient warning of the approach or position of the vehicle:

²⁶[Provided that vehicles manufactured on and from 1st October, 2014, the horn installation requirements for motor vehicles shall be as per IS: 15796-2008, specified by the Bureau of Indian Standards, as amended from time to time:]

²⁷[Provided further that on and after 1st October 2014, the requirements under this rule shall be applicable to every quadricycle;]

^{27a}[Provided also that on and after the date of final publication of the Central Motor Vehicles (16th Amendment) Rules, 2014 the requirements under this rule shall be applicable to every E-rickshaw and E-cart:]

²⁸[(1-A) Every combine harvester shall be fitted with an electric horn or other devices confirming to the requirements of IS 1884: 1993 specified by the

^{23b} Inserted by G.S.R. 594(E), dated 13-06-2016 (w.e.f 13-06-2016).

²⁴. Substituted by G.S.R.214(E), dated 18-3-1999 (w.e.f.18-3-1999).

²⁵. Substituted by G.S.R.589(E), dated 16-9-2005, for certain words (w.e.f.16-9-2006).

²⁶. Substituted by G.S.R.291(E), dated 24-4-2014 (w.e.f.24-4-2014).

²⁷. Inserted by G.S.R.99(E), dated 19-2-2014(w.e.f. 1-10-2014).

^{27a}. Inserted byG.S.R.709(E), dated 8-10-2014,(w.e.f.8-10-2014).

²⁸. Inserted by G.S.R.212(E),dated 20-3-2015 (w.e.f.1-4-2015)

Bureau of Indian Standards for use by the driver of the vehicle and capable of giving audible and sufficient warning of the approach or position of the vehicle.

Provided that the horn installation requirements for combine harvester shall be as per IS 15796 : 2008 specification as amended from time to time.]

(2) No ²⁹[motor vehicle including agricultural tractor] ²⁸[and combine harvester] shall be fitted with any multi-toned horn giving a succession of different notes or with any other sound-producing device giving an unduly harsh, shrill, loud or alarming noise.

(3) Nothing contained in sub-rule (2) shall prevent the use on vehicles used as ambulance or for fire fighting or salvage purposes or on vehicles ³⁰[used by police officers or operators of construction equipment vehicles or officers of the Motor Vehicles Department] ³¹[in the course of their duties or on construction equipment vehicles,] of such sound signals as may be approved by the registering authority in whose jurisdiction such vehicles are kept.

120. Silencers. – (1) ²⁹[Every motor vehicle including agricultural tractor] ²⁸[and combine harvester] shall be fitted with a device (hereinafter referred to as a silencer) which by means of an expansion chamber or otherwise reduces of exhaust gases from the engine.

²⁹[(2)Noise standards. – Every motor vehicle shall be constructed and maintained so as to conform to noise standards specified in Part E of the Schedule VI to the Environment (Protection) Rules, 1986, when tested as per IS:3028-1998, as amended from time to time.

³²[Provided that on and from the 1st day of April, 2006, where different noise levels are prescribed for vehicles, of such category, shall apply to Battery Operated Vehicles:]

³³[Provided further that in case of quadricycles, the permissible noise limits for b=vehicles in motion shall be 76 dB(A).]

²⁹. Substituted by G.S.R. 111(E), dated 10-2-2004(w.e.f. 10-8-2004).

³⁰. Substituted by G.S.R. 116(E), dated 27-2-2002(w.e.f. 27-8-2002).

³¹. Substituted by G.S.R. 642(E), dated 28-7-2000, for – in the course of their duties] (w.e.f. 28-7-2000).

³². Proviso added by G.S.R 589(E), dated 16-9-2005(w.e.f. 16-9-2005).

³³. Inserted by G.S.R. 99(E), dated 19-2-2014 (w.e.f 1-10-2014).

³⁴[(3) In the case of agricultural tractor, the measurement test for driver perceived noise level and permissible sound level at bystander shall be carried out as per AIS -115 (Part 1) – 2209 and AIS-115 (Part 2)-2009 respectively, as amended from time to time till such time the corresponding Bureau of Indian Standards specifications are notified under the Bureau of Indian Standards Act, 1986 (63 of 1986) and shall conform to the levels as specified in the Table 1 and Table 2 below;

TABLE 1

Sl.No	Agriculture Tractor	Date of Implementation	Driver-perceived notice level
(1)	All	1 st April,2015	96 dB(A)* 92 dB (A)*

*As per Annexure I of AIS-115 (Part 1) – 2009

**As per Annexure II of AIS-115 (Part 1)- 2009

Note.- Agricultural Tractor manufacturers may opt for testing as per Annexure I or Annexure II.

TABLE 2

Sl.No.	Agriculture Tractor	Date of Implementation	By stander's position
(1)	> 1.5 TGVW	1 st April, 2015	88 dB (A)
(2)	< 1.5 TGVW	1 st April, 2015	85 dB (A)'

³⁵[(4) In case of power tiller with a riding attachment or power tiller coupled to trailer, the noise level when tested as per IS:12180:2000, as amended from time to time, shall not exceed 88dB(A) at the bystander position and 98dB(A) at the operator's ear level.]

^{35a}[(5) In the case of combine harvester, the noise level at operator's ear level shall be measured as per Annex B of IS 12180 (Part-1) : 2000, whereas the noise level at bystander's position shall be measured as per IS 12180 (Part-2):2000:

Provided that the noise level shall not exceed 98 dB (A) at operator's ear level and 88 dB(A) at bystander's position

³⁴. Substituted by G.S.R. 291(E), dated 24-4-2014(w.e.f 24-4-2014).

³⁵. Sub-R.(4) inserted by G.S.R. 589(E), dated 16-9-2005 (w.e.f 1-10-2006).

^{35a}. Inserted by G.S.R 212(E), dated 20-3-2015 (w.e.f 1-4-2015)

121. Painting of motor vehicles.—(1)³⁶[No motor vehicle including ³⁷[agricultural tractor and construction equipment vehicle]] shall be painted in olive green colour except those belonging to the Defence Department

(2) No contract carriage other than a tourist vehicle covered by permit under sub-section (9) of section 88 shall be painted in the manner specified in sub-rule (11) of rule 128.

(3) No goods carriage other than a goods carriage covered by national permit shall be painted in the manner specified in sub-rule (1) of rule 90.

³⁸[(4) The body of quadricycle shall prominently carry a label "Q" in capital and Arial font in black or any contrasting colour in front and at the rear of vehicle and that the said label shall have suitable dimensions so that total display area is not less than 225 sq.cm]

Chassis number and engine number

³⁹[**122.⁴⁰Embossment of the chassis number and engine number or in the case of battery operated vehicles, motor number and month of manufacture.—]**

⁴¹(1) Every L, M and N categories of motor vehicles, manufactured on and after 1st day of April, 2009, shall bear the identification number including month and year of manufacture, embossed or etched or punched on it, in accordance with AIS 065:2005 till the corresponding BIS specifications are notified under the Bureau of Indian Standard Act, 1986 (63 of 1986):

Provided that every ⁴²[N category vehicle, Goods Quadricycle, E-rickshaw and E-cart], manufactured on and after the 1st day of April, 2009 shall bear manufacturer's plate as prescribed in AIS 065:2005 till the corresponding BIS specifications are notified under the Bureau of Indian Standards Act, 1986 (63 of 1986):]

³⁸[Provided further that on and after 1st October, 2014, the requirements under this rule shall be applicable to every quadricycle:]

³⁶. Substituted by G.S.R. 642(E), dated 29-7-2000, for "No motor vehicle" (w.e.f. 28-7-2000).

³⁷. Substituted by G.S.R. 212(E), dated 20-3-2015 (w.e.f. 1-4-2015).

³⁸. Inserted by G.S.R. 99(E), dated 19-2-2014 (w.e.f. 1-10-2014).

³⁹. R. 122 substituted by G.S.R. 338 (E), dated 26-3-1993.

⁴⁰. Substituted by G.S.R. 589(E), dated 16-9-2005, for the heading (w.e.f 1-4-2006).

⁴¹. Substituted by G.S.R. 784(E), dated 12-11-2008 (w.e.f. 1-4-2009).

⁴². Substituted by G.S.R. 709 (E), dated 8-10-2014 (w.e.f. 8-10-2014).

^{42a}[Provided also that on and after date of final publication of the Central Motor Vehicles (16th Amendment) Rules, 2014, the requirements under this rule shall be applicable to every E-rickshaw and E-cart:

Provided also that the test agencies shall be authorized to provide a vehicle identification number, wherever registered association applies for approval for E-rickshaw.]

⁴³[(1-A) Every ^{43a}[agricultural tractor, construction equipment vehicle, hydraulic modular trailer and combine harvester] shall bear the identification number including month and year of manufacture, embossed or etched or punched on it shall be in accordance with AIS 117-2011, as amended from time to time till the corresponding Bureau of Indian Standards specifications are notified under Bureau of Indian Standards Act, 1986 (63 of 1986):]

^{43b}[Provided further that on and from the 1st day of April, 2016, in case of the construction equipment vehicles the identification number including month and year of manufacture, embossed or etched or punched on it shall be in accordance with AIS-136:2015, as amended from time to time, till the Bureau of Indian Standards Act, 1986 (63 of 1986):]

^{43c}[(q-B) Every combine harvester and hydraulic modular trailer shall bear the identification number plate including the following information embossed or etched or punched on it:

(i)Name of manufacturer:

(ii)Model Name :

(iii)Chassis number:

(iv)Engine/Tractor make & model:

(v)Engine SI. No (in case of self propelled combine):

(vi)Month & year of manufacture:

⁴⁴[(2) The vehicle manufacturer shall intimate to the certifying testing agency regarding the place where the number shall be embossed or etched or punched including code for the year and month of production in respect of each model and such testing agency shall include these details in the certificate of

^{42a}. Inserted by G.S.R. 709(E), dated 8-10-2014 (w.e.f. 8-10-2014).

⁴³. Substituted by G.S.R. 291(E), dated 24-4-2014 on and after 1-10-2014.

^{43a}. Substituted by G.S.R. 212 (E), dated 20-3-2016 (w.e.f 1-4-2015).

^{43b}. Inserted by G.S.R. 133(E), dated 29-1-2016 (w.e.f. 1-2-2016).

^{43c}. Inserted by G.S.R. 212(E), dated 20-3-2015 (w.e.f 1-4-2015).

⁴⁴. Substituted by G.S.R. by 221(E), dated 28-3-2001 (w.e.f. 28-3-2001).

compliance granted by that agency under rule 126. No manufacturer shall change the place of embossing, etching or punching and the code for the month and year of production without prior intimation by registered post to the testing agency which granted the certificate of compliance to these rules:

⁴⁵[***]

^{45a}[(3) In case of E-rickshaw or E-cart, the registered E-rickshaw or E-cart Association or manufacturer producing E-rickshaw or E-cart shall intimate to the State Transport Authority regarding the place where the number shall be embossed or etched or punched including the code for the year and month of production for each model of E-rickshaw or E-cart.]

SAFETY DEVICES

Safety devices for drivers, passengers and road users

123. Safety devices in motorcycle — No motor cycle,⁴⁶[which has provision for pillion rider] shall be constructed without provision for a permanent hand grip on the side or behind the driver's seat and a foot rest and a protective device covering not less than half of the rear wheel so as to prevent the clothes of the person sitting on the pillion from being entangled in the wheel:

⁴⁷ [Provided that on and from 1st January, 2003, the pillion hand holds shall be governed by IS:14495-1998 specifications, as may be amended from time to time.]

^{47a}[Provided that on and after 1st October, 2016 a light weight container may be fitted on a motorcycle provided it meets the following requirements :

- (i) the dimensions of the container shall not exceed 550 mm in length, 510 mm in width and 500 mm in height;
- (ii) weight of the container including its mounting and the load carried in the container shall not exceed 30 kgs;
- (iii) if such container is fitted on the pillion rider space, then no pillion rider shall be allowed:

⁴⁵. Proviso omitted by G.S.R> 784(E), dated 12-11-2008 (w.e.f 1-4-2009).

^{45a}. Inserted by G.S.R. 27(E), dated 13-1-2015 (w.e.f 13-1-2015).

⁴⁶. Inserted by G.S.R. 338(E), dated 26-3-1993 (w.e.f. 26-3-1993).

⁴⁷. Inserted by G.S.R. 400(E), dated 31-5-2002 (w.e.f. 31-5-2002).

^{47a}. Inserted by G.S.R. 473(E), dated 2-5-2016 (w.e.f 2-5-2016).

Provided that the weight of container including its mounting and the load carried in the container, shall be within the permissible Gross Vehicle Weight in kg, specified by the vehicle manufacturer and also approved by the test agency referred to in rule 126;

⁴⁸[**124. Safety standards of components.**—⁴⁹[(1)The Central Government may, from time to time, specify, by notification in the Official Gazette, the standards or the relevant standards specified by the Bureau of Indian Standards of any part, component or assembly to be used in the manufacture of a vehicle including construction equipment vehicle and the date from which such parts, components or assemblies are to be used in the manufacture of such vehicle and on publication of such notification every manufacturer shall use only such of these parts, components or assemblies in manufacture of the vehicle:]

⁵⁰[Provided that any notification issued under this sub-rule before the commencement of the Central Motor Vehicles (6th Amendment) Rules, 2001, shall not be applicable after such commencement upto and including ⁵¹[26th August, 2002] in respect of any construction equipment.]

⁵²[(1-A) the general requirements of vehicle rear under run protecting device and the technical requirements of vehicle lateral protection side shall be as per IS:14812-2000 specifications and as per IS:14682-1999, respectively, as may be amended from time to time, for the motor vehicles of categories mentioned therein.]

^{52a}[(1-B) There shall not be any requirements regarding fitment of rear under run protection device and lateral protection device in modular hydraulic trailer.

(1-C) —"T" signs, wherever used on modular hydraulic trailers, shall comply with IS: 9942 :1982.]

⁵³[(2) Every manufacturer shall get the prototype of the part, component or sub-assembly for which standards have been notified, approved from any agency as referred to in rule 126 ^{53a}[and in the case of tyre and rubber

⁴⁸. R. 124 substituted by G.S.R. 338(E), dated 26-3-1993(w.e.f. 26-3-1993).

⁴⁹. Sub-R. (1) substituted by G.S.R. 116(E), dated 27-2-2002 (w.e.f 27-8-2002).

⁵⁰. Inserted by G.S.R. 675(E), dated 17-9-2001 (w.e.f 17-9-2001).

⁵¹. Substituted by G.S.R. 242(E), dated 28-3-2002 for "31st March 2002" (w.e.f. 28-3-2002).

⁵². Substituted by G.S.R. 291(E), dated 24-4-2014 on and after 1-10-2014.

^{52a}. Inserted by G.S.R.212(E), dated 20-3-2015 (w.e.f. 1-4-2015).

⁵³. Substituted by G.S.R. 214(E), dated 18-3-1999(w.e.f. 18-3-1999).

^{53a}. Substituted by G.S.R. 247(E), dated 15-03-2017 (w.e.f. 15-03-2017).

components from the Indian Rubber Manufacturers Research Association, Thane], or in case of compliance with notified Indian Standards from any laboratory duly authorized by the Bureau of Indian Standards. On the basis of such approval, every manufacturer shall also certify compliance with the provisions of this rule in Form 22.]]

^{53b}[(2-A) In case of E-rickshaw or E-cart, the registered E-rickshaw or E-cart Association or manufacturer producing E-rickshaw or E-cart shall get the prototype of the part, component or sub-assembly for which standards have been notified, approved from any agency as referred to in rule 126 or the Central Institute of Road Transport, Pune, or in case of compliance with notified Indian Standards from any laboratory duly authorised by the Bureau of Indian Standards, and on the basis of such approval, the E-rickshaw or E-cart association or manufacturer shall also certify compliance with the provisions of this rule in Form 22.]

⁵⁴ [(3)The Central Government may, by notification in the Official Gazette, frame a Scheme for marking to be affixed on any part or component or assembly to be used in the manufacture of the vehicle and specify the date from which such parts, components or assemblies are to be used in the manufacture of the vehicle.]

⁵⁵[(4) The procedure for type approval and establishing conformity of production for components, listed in table below, shall be in accordance with AIS:037-2004 till the corresponding BIS specifications are notified under the Bureau of Indian Standards Act, 1986 (63 of 1986).

Sl. No.	Component	Reference Rule	Effective for vehicles manufactured on and from
1.	2.	3.	4.
1.	Safety Glass	Rule 100(2), (3) and (3-A)	1 st April, 2009
2.	Brake hose	SI.No.2 of Table of S.O. 1365 (E), dated 13-12-2004 and SI.No. 3 of 124-A	1 st April, 2009
3.	Horn	Rule 199(1)	1 st April, 2009
4.	Tyre	Rule 95(1)	1 st April, 2009
5.	CNG Regulator	SI.No. 3 of Annexure IX	1 st April, 2009

6.	LPG vaporizer/regulator	Sl. No. 3 of Annexure VIII	1 st April, 2009
7.	Bulb	Sl. No. 1 of Table of S.O. 1365 (E), dated 13-12-2004 and Sl.No. 1 of 124-A	1 st October, 2009
8.	Rear view mirror	Rule 125(2)	1 st October, 2009
9.	Speed limiting devices	Rule 118(1)	1 st October, 2009
10.	Safety Belt	Rule 125(1-A)	1 st October, 2009
11.	Wheel rims for M and N category	Sl. No. 8 of Table of S.O. 1365(E), dated 13-12-2004	1 st October, 2009
12.	Lighting and light signalling devices for M and N Category	Sl.No. 20 of Table of S.O. 1365(E), dated 13-12-20041	1 st October, 2009
13.	Retro-reflectors for M and N Category	Rule 104(4) and 104-A(vi)	1 st October, 2009
14.	Warning triangle	Rule 138(4)(c)	1 st October, 2009
15.	Lighting and light signalling devices for L category	Sl.No. 32 of Table of S.O. 1365(E), dated 13-12-2004	1 st April, 2010
16.	Retro-reflectors for L category	Rule 104(4) and 104-A(vi)	1 st April, 2010
17.	Retro-reflector for Agricultural Tractors and Constructional Equipment Vehicles	Rule 104-A and Rule 104-B	1 st April, 2010
18.	Lighting and signalling devices fro Agricultural Tractors and Constructional Equipment Vehicles	Sl.No.2 of Rule 124-A	1 st April, 2010
19.	Door locks and Door retention components	Sl.No. 16 of Table of S.O. 1365(E), dated 13-12-2004	1 st April, 2010
20.	Fuel tanks	Sl.No. 7 and 25 of Table of S.O. 1365(E), dated 13-12-2004. Sl. No.6 of Rule 124-A	1 st April, 2010
21.	Reflective tapes	Rule 104(1)	1 st April, 2010
55 ^a [22]	High Security Registration plate	Rule 50	1 st April, 2019]

Provided that the component manufacturers shall comply with the requirements six months prior to the date mentioned in column (4) above.]

^{53b}.Inserted by G.S.R.27(E), dated 13-1-2015 (w.e.f. 13-1-2015).

⁵⁴. Inserted by G.S.R.221(E), dated 28-3-2001 (w.e.f.28-3-2001)

⁵⁵.Inserted by G.S.R.784(E), dated 12-11-2008(w.e.f.12-11-2008).

^{55a}.Inserted by G.S.R.1162(E), dated 14-12-2018(w.e.f.01-04-2019).

⁵⁶[^{56a}**124-A.Safety standards of components for agricultural tractors.**—(1)The bulbs of the following lamps used on agricultural tractors ^{56b}[and combine harvesters] shall conform to ^{56c}[AIS: 034-2010], as amended from time to time.

- (a) Head light main and dip;
- (b) Parking light;
- (c) Direction indicator lamp;
- (d) Tail lamp
- (e) Reversing lamp
- (f) Stop lamp
- (g) Rear Registration mark indicating lamp; and
- (h) Top light

^{56e}[(1A) The bulbs of the lighting and light-signaling devices specified in sub-rule (1) used on agricultural tractors manufactured on and after the 1st day of October, 2019, shall conform to AIS-034 (Part 1) (Rev.1):2010 standard as amended from time to time, till such time the corresponding BIS specifications are notified under the Bureau of Indian Standards Act, 2016 (11 of 2016):

Provided that S1 and C21 categories of bulbs specified in AIS-034 (Part 1) (Rev.1): 2010 standard shall not be used in lighting and light-signaling devices of agricultural tractors manufactured on and after the 1st day of October, 2019:

Provided further that R2 category of bulbs specified in AIS-034 (Part 1) (Rev 1): 2010 standard shall not be used in headlamps of agricultural tractors manufactured on and after the 1st day of October, 2019.]

(2) The lighting and light signalling devices for agricultural tractor ^{56b}[and combine harvesters] shall be in accordance with AIS:030, as amended from time to time, till such time the corresponding BIS standard is notified:

Provided that the performance requirements of the lighting, light signalling and indicating systems of agricultural tractor ^{56b}[and combine harvesters] manufactured on and from ⁵⁷[1st October, 2005] shall be in accordance with safety standard AIS:062, as amended from time to time, till such time corresponding BIS standards are notified:

^{56d}[Provided further that the performance requirements of the lighting and light-signaling devices of agricultural tractors manufactured on and after the 1st day of April, 2017 shall be in accordance with AIS:062 (Rev.1): 2014, as amended from time to time, till such time corresponding BIS standards are notified:]

^{57a}[^{57aa}[Provided also] that the performance of rear warning triangle fitted on agricultural tractors ^{56b}[and combine harvesters] manufactured on and after the 1st day of April, 2009, shall be in accordance with AIS:088-2005, except for clause 1.4.3 of Annexure 6 therein till such time corresponding BIS standards are notified under the Bureau of Indian Standards Act, 1986 (63 of 1986):]

^{56b}[Provided also that in case of combine harvesters, if the shape of body work makes it impossible to comply with the height requirement of Installation of the following lighting and light-signalling devices, it shall be allowed at a height not exceeding 3000 mm:

- (i) Dipped-beam headlamp (Ref. clause 6.2.4.2)*
- (ii) Front direction indicator lamp (ref. clause 6.5.4.2.3)*
- (iii) Front position lamp (Ref. clause 6.9.4.2)*
- (iv) Front parking lamp (Ref. clause 6.12.4.2)*

***Note.** – Reference clause numbers of AIS-030:2001:

Provided also that the performance requirements of the lighting, light signalling and indicating systems of combine harvester shall be in accordance with safety standards AIS:062-2004, as amended from time to time, till such time as the corresponding Bureau of Indian Standards are notified:

^{56.} Inserted by G.S.R.111(E), dated 10-2-2004 (w.e.f. 10-8-2004) and as corrected by vide G.S.R. 176(E), dated 5-3-2004.

^{56a} Substituted by G.S.R. 212 (E), dated 20-3-2015 (w.e.f. 1-4-2015).

^{56b}. Inserted by G.S.R.212 (E), dated 20-3-2015 (w.e.f. 1-4-2015)

^{56c}Substituted by G.S.R. 291(E), dated 24-4-2014 on and after 1-4-2015.

^{56d} Inserted by G.S.R. 880(E), dated 14-09-2016, (w.e.f. 14-09-2016)

^{56e} Inserted by G.S.R. 1192(E), dated 10-12-2018 (w.e.f. 10-12-2018).

^{57.} Substituted by G.S.R. 206(E), dated 1-4-2005, for "1st April, 2005" (w.e.f. 1-4-2005).

^{57a}. Inserted by G.S.R. 784(E), dated 12-11-2008 (w.e.f. 12-11-2008).

^{57aa} Substituted by G.S.R. 880(E), dated 14-09-2016, for "provider further" (w.e.f. 01-10-2016)

Provided also that the performance of rear warning triangle fitted on combine harvester shall be accordance with AIS:088-2005, except clause 1.4.3 of Annexure 6 therein, as amended from time to time, till such time the corresponding Bureau of Indian Standards are notified.]

^{56e}[(2A) The lighting and light-signaling devices of agricultural tractors manufactured on and after the 1st day of October 2019, shall be in accordance with AIS-030 (Rev.1): 2012 standard as amended from time to time, till such time the corresponding BIS specifications are notified under the Bureau of Indian Standards Act, 2016 (11 of 2016).]

(3) The hydraulic brake hoses wherever used in agricultural tractors ^{57b}[and combine harvester] and its trailer shall be in accordance with ^{57c}[IS:7079-2008], as amended from time to time.

(4) The vegetable, no-mineral based hydraulic fluids wherever used in agricultural tractor ^{57b}[and combine harvester] shall be in accordance with IS:8654-1986, as amended from time to time.

^{57g}[(5) The tow hook wherever used in combine harvester shall be in accordance with IS: 12362 (part 2) standard as amended from time to time.

(5A) On and after the 1st day of October 2019, the mechanical couplings for agricultural tractor shall be in accordance with AIS-091(Part 2): 2012 standard as amended from time to time, till such time the corresponding BIS specifications are notified under the Bureau of Indian Standards Act, 2016 (11 of 2016).

(5B) On and after the 1st day of October 2019, the front coupling device where ever provided for agricultural tractor shall be in accordance with AIS-109:2012 standard as amended from time to time, till such time the corresponding BIS specifications are notified under the Bureau of Indian Standards Act, 2016 (11 of 2016)].

^{57c}[(6) The fuel tank of agricultural tractor shall conform to AIS: 104-2008, as amended from time to time.

^{57b}. Inserted by G.S.R. 212(E), dated 20-3-2015(w.e.f. 1-4-2015).

^{57c}. Substituted by G.S.R. 291(E), dated 24-4-2014, on and after 1-4-2015.

^{57d}. Inserted by G.S.R. 625(E), dated 8-8-2012(w.e.f 8-8-2012).

^{57e}. Substituted by G.S.R. by 644(E), dated 27-9-2013.

^{57f}. Inserted by G.S.R. 291(E), dated 24-4-2014 (w.e.f. 24-4-2014)

^{57g} Inserted by G.S.R. G.S.R. 1192(E), dated 10-12-2018 (w.e.f. 10-12-2018).

(7) The wheel nuts and hub cubs used in agricultural tractor ^{57b}[and combine harvester] shall be in accordance with IS: 13942-1994, amended from time to time.]

^{57d}[(8) On and after the ^{57e}[1st October, 2013] the ballast mass, wherever used in agricultural tractor, shall conform to AIS 105: 2008, as amended from time to time , till the corresponding BIS specifications are notified under the Bureau of Indian Standards Act, 1986 (63 of 1986).

(9) On and after the ^{57e}[1st October, 2013], the protective structures, wherever provided in agricultural tractor, shall conform to IS: 11821 (Part 1) - 1992 or IS:11821 (Part 2)-1992, as the case may be.

(10) On and after the ^{57e}[1st October, 2013], the load platform, wherever used in agricultural tractors, shall conform to AIS: 106-2009, amended from time to time, till the corresponding BIS specifications are notified under the Bureau of Indian Standards Act, 1986 (63 of 1986).

(11) On and after the ^{57e}[1st October, 2013] the attendants' seat, wherever used in agricultural tractors, shall conform to AIS: 111-2009, as amended from time to time, till the corresponding BIS specifications are notified under the Bureau of Indian Standards Act, 1986 (63 of 1986).

(12) On and after the ^{57e}[1st April, 2014], for agricultural tractors, the driver's field of vision shall conform to AIS: 107-2009, as amended from time to time, till the corresponding BIS specifications are notified under the Bureau of Indian Standards Act, 1986 (63 of 1986).]

^{57f}[(13) On and after 1st April, 2015, for agricultural tractors, the maximum design speed shall be in accordance with AIS-116-2009.]

124-B.Safety Standards of components for power tillers – ⁵⁸[(1) For the power tillers manufactured on and after the 1st day of October, 2019, the bulbs used for lighting and light signaling devices on power tillers, -

- (a) the head light main and dip;
- (b) the parking light;
- (c) the direction indicator lamp;
- (d) the tail lamp;
- (e) the reversing lamp;

⁵⁸. Substituted by G.S.R. 1192(E), dated 10-12-2018 (w.e.f. 10-12-2018).

(f) the stop lamp;

(g) the rear registration mark illuminating lamp,

shall be in accordance with AIS-034(Part 1) (Rev. 1): 2010 standard as amended from time to time till the corresponding BIS specifications are notified under the Bureau of Indian Standards Act, 2016 (11 of 2016):

Provided that S1 and C21 categories of bulbs specified in AIS-034(Part 1) (Rev. 1): 2010 standard as amended from time to time, shall not be used in lighting and light-signaling devices of power tillers manufactured on and after the 1st day of October, 2019:

Provided further that R2 category of bulbs specified in AIS-034(Part 1) (Rev. 1): 2010 standard as amended from time to time, shall not be permitted for use in head lamps for power tillers manufactured on and after the 1st day of October, 2019.]

(2) The lighting and signalling devices shall be in accordance with AIS:062:2004 as amended from time to time, till the corresponding BIS specifications are notified under the Bureau of Indian Standards Act, 1986 (63 of 1986).

(3) The safety and comfort of the operator of a power tiller shall be in accordance with IST 2239 (Part 3):1996, as amended from time to time.

(4) The gradeability of a power tiller coupled to a trailer under the declared combination weight by the manufacturer shall be in accordance with IS:9980:1988, as amended from time to time.]

59[125. Safety belt, collapsible steering column, auto dipper and padded dash boards.—

⁶⁰[(1)] One year from the date of commencement of the Central Motor Vehicles (Amendment) Rules, 1993, the manufacturer of every motor vehicle other than motor cycles and three-wheelers ^{60a}[****], shall equip every such vehicle with a seat belt for the driver and for the person occupying the front seat.

Provided that on and after 1st October 2014 the requirements under this rule shall be applicable to every Quadricycles

⁵⁹. R. 125 substituted by G.S.R. 338(E), dated 26-3-1993 (w.e.f. 26-3-1993).

⁶⁰. R. 125 renumbered as sub-R (1) thereof by G.S.R. 720(E), dated 10-9-2003 (w.e.f. 10-10-2003).

^{60a}. The words, figures and letters —“of engine capacity not exceeding 500cc” omitted by G.S.R. 276(E), dated 10-4-2007 (w.e.f 10-4-2007).

Provided that the specifications of Safety Belt Assemblies and Safety Belt Anchorages in motor vehicles shall conform to ^{61a}[IS: 15140-2003 and IS:15139-2002 specifications, respectively]:

⁶¹[(1-A) The manufacturer of every motor vehicle of M-I category shall equip every motor vehicle with a seat belt for a person occupying the front facing rear seat:

Provided that the specifications of Safety Belt Assemblies and Safety Belt Anchorages in motor vehicles shall conform to ^{61a}[IS: 15140-2003 and IS:15139-2002 specifications, respectively]:

Provided further that on and after 1st October, 2002, the specification of Safety Belt Assemblies and Safety Belt Anchorages in motor vehicles shall conform to AIS:005- 2000 and AIS:15139-2002 specifications, respectively.]

⁶²[(1-B) On and after the 1st day of October, 2009, the front under run protective n (sic) after 1st day of October, 2009 shall comply with the requirements specified in AIS: 069-2006, till the corresponding HIS specifications are dives fitted on N2 and N3 categories of motor vehicles, manufactured o (sic) notified under the Bureau of Indian Standards Act, 1986 (63 of 1986).

(1-C) On and after the 1st day of April, 2009, the temporary cabin fitted on drive away chassis vehicles of Category M and N, manufactured on and after the 1st day of October, 2008 that are driven off from the factory premises for purposes of body building, shall comply with the requirements specified in AIS: 070-2004 till the corresponding BIS specifications are notified under the Bureau of Indian Standards Act, 1986 (63 of 1986).

(2) Six months from the date of commencement of the Central Motor Vehicles (Amendment) Rules1993 all motor vehicles shall be equipped with rear view mirror:

⁶³[Provided that -

(a) for L5 category (three wheeled vehicles) without body work and L1 and L2 categories (two wheeled vehicles) manufactured on

^{60b}. Inserted by G.S.R. 99(E), dated 19-2-2014 (w.e.f 1-10-2014).

⁶¹. Sub-R. (1-A) substituted by G.S.R. 400(E), dated 31-5-2002 (w.e.f 31-5-2002).

^{61a}. Substituted by G.S.R. 784(E), dated 12-11-2008(w.e.f 1-4-2009).

⁶². Inserted by G.S.R. 784(E), dated 12-11-2008 (w.e.f. 12-11-2008).

⁶³. For proviso 1 & 2 Substituted by G.S.R. 1192(E), dated 10-12-2018 (w.e.f. 10-12-2018).

and after the 1st day of October, 2019, the rear view mirror specification and installation requirements shall be as specified in AIS-001 (Part 2) Rev.1):2011. and AIS-002 (Part 2)(Rev.1):2011 standard respectively, as amended from time to time, till such time the corresponding BIS specifications are notified under the Bureau of Indian Standards Act, 2016 (11 of 2016);

(b) for L5 category (three wheeled vehicles) with body work manufactured on and after the 1st day of October, 2019, the rear view mirror specification and installation requirements shall be as specified in AIS-001 (Part 1) (Rev.1): 2011 and AIS-002 (Part 1) (Rev.1): 2011 standard respectively, as amended from time to time, till such time corresponding BIS specifications are notified under the Bureau of Indian Standards Act, 2016 (11 of 2016);

(c) for M and N category vehicles manufactured on and after the 1st day of October, 2019, the rearview mirror specification and installation requirements shall be as specified in AIS-001 (Part 1) (Rev.1): 2011 and AIS-002 (Part 1) (Rev.1): 2011 standard respectively, as amended from time to time, till such time corresponding BIS specifications are notified under the Bureau of Indian Standards Act, 2016 (11 of 2016):

Provided further that, for L7 category vehicles manufactured on and after the 1st day of October, 2019, the rear view mirror specification and installation requirements shall be as specified in AIS-001 (Part 1) (Rev.1): 2011 and AIS-002 (Part 1) (Rev.1): 2011 standard respectively, as amended from time to time, till such time corresponding BIS specifications are notified under the Bureau of Indian Standards Act, 2016 (11 of 2016)]

⁶⁵[Provided further that on and after the ^{65a}[1st October, 2013], for agricultural tractors, the rear view mirror specifications and installation requirements shall conform to AIS: 001-2001 and AIS: 114-2009 respectively, as amended from time to time, till the corresponding BIS specifications are notified under the Bureau of Indian Standards Act, 1986 (63 of 1986).]

⁶⁴[Provided also that on and after the 1st October, 2019, for agricultural tractors, the rear view mirror specifications and installation

⁶⁴. Inserted by G.S.R. 1192(E), dated 10-12-2018 (w.e.f. 10-12-2018).

⁶⁵. Inserted by G.S.R. 625(E), dated 8-8-2012 (w.e.f. 8-8-2012).

^{65a}. Substituted by G.S.R. 664(E), dated 27-9-2013.

requirements shall conform to AIS-001 (Part 1) (Rev.1): 2011 and AIS:114-2009 standards respectively as amended from time to time, till the corresponding BIS specifications are notified under the Bureau of Indian Standards Act, 2016 (11 of 2016).]

^{65b}[Provided that this sub-rule is applicable only to those drive away chassis vehicles driven on road, whenever and wherever, by its own wheels using own power and not applicable to those drive away chassis vehicles that are transported upon trailers or by any other mode of transportation.]

⁶⁶[(3) ** *]

^{66a} [(4) ** *]

⁶³[(5) On and after 1st January, 2003, the size and specifications on seats, their Anchorages and Head Restraints (excluding luggage retention) on M-1 vehicle category shall conform to ^{66b}[IS :15546-2005].

⁶⁷[(6)On and from the 1st day of October, 2007, the seats, their anchorages and their head restraints for M2, M3, N1, N2 and N3 category of vehicles, shall be in accordance with AIS:023:2005 as amended from time to time till the corresponding BIS specifications are notified under the Bureau of Indian Standards Act, 1986 (63of 1986).]

^{67b}[(7) On and after 1st October, 2014, the seats, their anchorages and head restraints for quadricycles shall be in accordance with the specifications of vehicle Group B as specified in AIS 023: 2005 as amended from time to time till the corresponding BIS specifications are notified under the Bureau of Indian Standards Act, 1986 (63 of 1986)]

^{67a}[(8) Motor vehicles of category M1 excluding transport vehicles and special purpose vehicles manufactured on and after 1st April, 2015, shall have a provision for installation of at least one category of child restraint system for all weight groups on at least one of the seating seating positions, as specified in AOS: 072-2009, as amended from time to time, till the corresponding bureau of Indian Standards Act, 1986 (63 of 1986):

^{65b}. Substituted by G.S.R. 121(E), dated 10-12-2017.

⁶⁶. Sub-R. (3) omitted by G.S.R. 29(E), dated 15-1-1998 (w.e.f. 15-1-1998).

^{66a}. Sub-R. (4) omitted by G.S.R. 659(E), dated 12-9-2001(w.e.f. 12-9-2001).

^{66b}. Substituted by G.S.R. 784(E), dated 12-11-2008 (w.e.f. 1-4-2009).

⁶⁷. Inserted by G.S.R. 589(E), dated 16-9-2005 (w.e.f 16-9-2005).

^{67a}. Substituted by G.S.R. 291(E), dated 24-4-2014 (w.e.f 24-4-2014).

^{67b}. Inserted by G.S.R. 99(E), dated 19-02-2014 (w.e.f 01-10-2014).

Provided that the manufacturer or importer or dealer of the child restraint system shall provide the guidelines for fitment and use of such system to the buyer of such vehicles:

Provided further that for such vehicles, vehicle manufacturer or importer or dealer of the motor vehicle shall provide the guidelines for recommended position in the vehicle.]

^{67c}[(9) Motor vehicles of category M1, manufactured on and after the 1st day of July, 2019, shall comply with the additional safety features and its requirements stipulated in AIS-145 -2017, as amended from time to time.]

^{67d}[(10) Vehicles of Category M2, Category M3 and Category N (except tractors including puller tractor for semitrailers, trailers and modular hydraulic trailers), manufactured on and after the 1st April, 2020, shall be fitted with the vehicle reverse parking alert system complying with the requirements of AIS-145:2017, as amended from time to time, till the corresponding Bureau of Indian Standards (BIS) specifications are notified under the Bureau of Indian Standards Act, 2016 (11 of 2016);

(11) Safety provisions for occupant of three wheeled vehicles: On and after the 1st day of April, 2020, the safety provisions for occupant of three wheeled vehicles shall conform to provisions specified in AIS-134:2016, as amended from time to time till the corresponding Bureau of Indian Standards (BIS) specifications are notified under the Bureau of Indian Standards Act, 2016 (11 of 2016)].

⁶⁸[^{68a}**125-A.Safety belt, etc., for construction equipment vehicles.**—One year from the date of commencement of the Central Motor Vehicle (sixth Amendment) Rules, 2000, the manufacturer of every construction equipment vehicle other than an agriculture tractor shall equip every such vehicle with a seat belt for the driver and for the person occupying the front seat, and with a rear view mirror.]

^{68b}[Provided that every combine harvester fitted with a cabin, shall be equipped with a seat belt for the driver and with a rear view mirror.]

^{67c}. Inserted by G.S.R. 1483(E), dated 07-12-2017 (w.e.f 07-12-2017).

^{67d}. Inserted by G.S.R. 1225(E), dated 20-12-2018 (w.e.f. 20-12-2018).

⁶⁸. Inserted by G.S.R. 642(E), dated 28-7-200 (w.e.f 28-7-2000).

^{68a}. Inserted by G.S.R. 212(E), dated 20-3-2015 (w.e.f. 1-4-2015).

^{68b}. Inserted by G.S.R. 212(E), dated 20-3-2015 (w.e.f. 1-4-2015).

^{68c}[125-B.]Special requirements for transport vehicles that are driven on hills.

(1) On and from the 1st day of October, 2006, such four wheeled transport vehicles as may be notified by State Governments In the Official Gazette plying on such routes or areas in hilly terrains shall be fitted with fog lamp, power steering, ⁶⁹[defrosting] and demisting system and that the State Government would provide a lead time of six months for this purpose.

(2) Anti-Lock Braking System shall be introduced in all M-2 category buses including those plying on All india Tourist Permit on and from the 1st day of October, 2007 in hill areas.

125-C.Body building and approval.— ^{69a}[(1) On and after the 1st day of October, 2014, the testing and approval for body building of new models of buses with seating capacity of 13 or more passengers excluding driver shall be in accordance with AIS: 052 (Revision 1)- 2008, as amended from time to time, for vehicles mentioned therein, till the corresponding BIS specifications are notified under the Bureau of Indian Standards Act, 1986 (63 of 1986):

^{69aa}[Provided that the provision of this rule shall be implemented in two phases.

In first phase, the provisions of AIS 052(Rev. 1) – 2008, excluding the parameters and requirements given in Table-1 below, shall be applicable on and after 1st day of January, 2017.

In second phase, the provisions of AIS-052(Rev. 1) – 2008, as amended from time to time, and the parameters and requirements given in (Table-1) below, shall be applicable on and after 1st day of January, 2018.

^{68c} Inserted by G.S.R. 212(E), dated 20-3-2015 (w.e.f. 1-4-2015)

⁶⁹. Substituted by G.S.R. 625(E), dated 8-8-2012 (w.e.f. 8-8-2012).

^{69a}. Substituted by G.S.R. 287(E), dated 22-4-2014 (w.e.f 22-4-2014)

^{69aa} Substituted by G.S.R. 895(E), dated 20-09-2016 (w.e.f 20-09-2016).

(Table -1)
(Additional Technical Provisions of AIS: 052(Rev-1))

Sr. No	Nature of Test / Parameters	Requirements of Specific Clauses of AIS - 052 (Rev.1)
1	Scope and Definitions (As applicable)	1.0
2	Body Structure Strength	3.1
3	Body Structure Stability	3.2
4	Window Retention	3.6
5	Window Frames	3.6, 5.5
6	Wind Screen Wiping System and Driver's field of Vision	3.10
7	Test Methods (As applicable)	Chapter 6
8	Vertical orientation for dipped beam - head lamp	Annexure I, Table with title "Details about Safety Critical Components]
10	Seat Anchorages / Systems	

(2) The testing and approval for the body building of school buses shall be in accordance with AIS: 063:2005 as amended from time to time for vehicles mentioned therein, till the corresponding BIS specifications are notified under the Bureau of Indian Standards Act, 1986 (63 of 1986).]

^{69b}[(3) All goods vehicles of Category N2 and of Category N3, either manufactured by a vehicle manufacturer or a body builder on drive away chassis vehicles shall, till the corresponding BIS specifications are notified under the Bureau of Indian Standards Act, 1986 (63 of 1986) comply with the provisions of AIS-093 (Rev. 1)-2015, as specified in Table I and Table II below, namely:-

Table 1

Sr. No.	Test Parameters	Requirements of Specific Clauses of AIS-093 (Rev.1)
(1)	(2)	(3)
1.	Overall Dimensions	2.1.1
2.	External Projections for cabin	2.1.2
3.	Driver/ Co-passenger Door	2.1.3
4.	Climb Facility	2.1.4
5.	Hand Holds	2.1.5
6.	Window on Cab Door	2.1.6
7.	Driver Seat/ Co passenger seat	2.1.7
8.	Safety Belt Assemblies and Anchorages	2.1.8
9.	Sleeper Berth	2.1.9
10.	Mudguards/ Spray suppression devices	2.1.10
11.	Driver Work Area	2.1.11
12.	Steering Wheel	2.1.12

13.	Placement of Instrument Panel	2.1.13
14.	Position of Controls	2.1.14
15.	Stowage Space	2.1.15
16.	First Aid Box	2.1.16
17.	Truck Cab Structural Strength	2.2.1
18.	Front Under run Protective Device (FUPD)	2.2.2
19.	Cab Mounting Arrangement and Strength Requirements	2.2.3
20.	Protection of the Occupants in the Event of a Lateral Collision	2.2.4
21.	Installation requirements for Lighting & Signaling devices (except for the vertical orientation of the dipped beam)	2.2.5
22.	Rear view mirror	2.2.6
23.	Driver's Work Area	2.2.7
24.	Door Locks & Hinges	2.2.8
25.	Window	2.2.9
26.	Wind Screen and Wind Screen Wiping System	2.2.11
27.	Fire extinguishers	2.2.12
28.	Cab and Body gap	3.2.2
29.	Stowage Space/ Luggage Carrier	3.2.3
30.	Mudguards/ Spray Suppression Devices	3.2.4
31.	Protection of the Occupants of Goods-carrying Power-driven Vehicles against the Shifting of Loads	3.4.1
32.	Retro-Reflective Markings for Heavy and Long Vehicles	3.4.5
33.	Lateral Protective device	3.4.6
34.	Rear Under run Protective Device (RUPD)	3.4.7
35.	Internal Lighting	4.1.2
36.	Position of illumination devices	4.1.3
37.	Driver Cab lighting	4.2
38.	Electrical cables	4.3.1
39.	Fuse	4.3.2
40.	Terminals, Connectors and Elements	4.3.3
41.	Safety requirements	4.4
42.	Batteries	4.5
43.	Technical Provisions for Base Vehicles	5.3
44.	Manner of Display of Class Labels and Identification Marks	5.5

^{69b}. Substituted by G.S.R. 1034(E), dated 02-11-2016 (w.e.f. 02-11-2016).

Table 2

Sr. No.	Nature of Test/ Parameters	Requirements of Specific Clauses of AIS-093 (Rev.1)
1.	Categorization of Truck Load Bodies	3.1
2.	General Requirements	3.2
3.	Overall Dimensions	3.2.1
4.	Rope Hooks and other Provisions	3.2.5

5.	Working Stability	3.3.1
6.	Mounting of the Body or Load Platform of Commercial Vehicles	3.3.2
7.	Body Construction requirements	3.3.3
8.	Securing the Load on the Load body	3.4.2
9.	External Projection	3.4.3
10.	Installation requirements for Lighting & Signaling devices (except for the vertical orientation of the dipped beam)	3.4.4
11.	External Lighting	4.1.1
12.	Type of Bulbs for lamp Assemblies	4.1.4
13.	Technical Provisions for Bodies	5.4
14.	Container Size Designations and Sizes Codes	6.4
15.	Recommendations for Stacking of Load	6.5
16.	Twist Locks	6.6
17.	Container securing arrangements	6.7
18.	Attaching Sub-frames and Bodies	6.8
19.	Tanker Mounting	6.9
20.	Stability Criteria	7.5
21.	Modification of the Vehicle Type and Extension of Approval	7.6
22.	Roll Over Stability/ Tilt Table Test Procedure	Annexure - 1
23.	Lateral Stability Calculation	Annexure - 2]

^{69ba}[(4) The vehicle referred to in sub rule(3) shall, on and after the 1st day of October 2018, comply with the provisions of the AIS specified in column(3) of the Table 1 of the said sub-rule, in respect of the test parameters specified in the corresponding column(2) of the said Table.; and on and after the 1st day of October, 2019, comply with the provisions of the AIS specified in column(3) of Table II, in respect of the test parameters specified in the corresponding column(2), of the said table;

Provided that manufacturers or the body builder of the vehicles referred to in sub-rule (3) shall, with effect from 1st April, 2017, be fitted with an airconditioning system for the cabin.]

^{69bb}[^{69bc}(5) On and after expiry of six months from the date of commencement of the Central Motor Vehicles (14th Amendment) Rules, 2016,

^{69ba} Substituted for "3. The vehicles referred to in " vide G.S.R. 756(E), dated 30-06-2017 (w.e.f. 30-06-2017)

^{69bb} Inserted vide G.S.R. 905(E), dated 23-09-2016 (w.e.f. 23-09-2016)

^{69bc} Sub- rule(4) re numbered as Sub-rule(5) vide G.S.R. 367(E), dated 13-04-2018 (w.e.f. 13-04-2018)

the testing and approval for body building of sleeper coaches shall be in accordance with AIS-119 (Rev.1): 2016, as amended from time to time, for vehicles mentioned therein, till the corresponding Bureau of Indian Standards specifications are notified under the Bureau of Indian Standards Act, 1986 (63 of 1986).]]

^{69bd}[Provided that the vehicles, manufactured on and after the 1st January, 2018 shall be fitted with an airconditioning system for the cabin or with the truck cabin ventilation system in accordance with AIS-056 (Rev1):2017, as amended from time to time, till the corresponding BIS specifications are notified under the Bureau of Indian Standards Act, 2016 (11 of 2016):

Provided further that in regard to the vehicles which are sold in the form of drive-away chassis, the manufacturer shall supply a type approved kit of forced ventilation items as defined in AIS-056 (Rev. 1):2017 to facilitate the body builder in installing the kit as specified within such standard]

^{69be}^{69bf}[(6) On and after the expiry of six months from the date of commencement of the Central Motor Vehicles (Third Amendment) Rules, 2017, the testing and approval for body building of double decked buses shall be in accordance with AIS-139:2016, as amended from time to time, till the corresponding Bureau of Indian Standard specifications are notified under the Bureau of Indian Standards Act, 1986 (63 of 1986).]]

^{69bg}[(7) (a) Fully built buses, with a ^{69bh}[seating capacity exceeding 22 passengers excluding driver], manufactured on and after the 1st April 2019, by Original Equipment Manufacturers shall be in accordance with AIS:153, as amended from time to time, till the corresponding BIS specifications are notified under the Bureau of Indian Standards Act, 2016 (11 of 2016).".

(b) The buses approved as per clause (a) shall also comply with the requirements, as specified in the following Table I, namely :-

^{69bd.} Inserted by G.S.R. 1433(E), dated 20-11-2017 (w.e.f. 20-11-2017).

^{69be.} Inserted by G.S.R. 240(E), dated 14-03-2017 (w.e.f. 14-03-2017).

^{69bf} Sub-rule(5) re numbered as Sub-rule(6) vide G.S.R. 367(E), dated 13-04-2018 (w.e.f. 13-04-2018)

^{69bg.} Inserted by G.S.R. 367(E), dated 13-04-2018 (w.e.f. 13-04-2018)

^{69bh} Substituted for "seating capacity of 13 passengers or above excluding driver" vide G.S.R.....(E), dated..... 2019 (w.e.f.)

Table I

Sr. No.	Parts/components/ Assemblies/Performance Parameter	Requirements / Standards	Date of commencement / validity
(1)	(2)	(3)	(4)
1	Engine Power to Gross Vehicle Weight	> 5 kW/ton	1 st April 2019
2	Acceleration	As per AIS:153	1 st April 2019
3	Interior noise level requirements	As per AIS:153	1 st April 2019
4	Vibration	As per AIS:153	1 st April 2019
5	Harshness	As per AIS:153	1 st April 2019
6	Improved Braking Performance, Anti-Lock Braking System (ABS), Electronic Vehicle Stability Control System (EVSC) and Other requirements	AIS:150 and AIS:153	1 st April 2019
7	Fire Detection, Alarm and Suppression system	AIS:135 and AIS:153	1 st April 2019
8	Multiplexing/electronic architecture	As per AIS:153	1 st April 2019".]

^{69c}[**125-D.Approval of Category T.** -(1) On and from the 1st day of April, 2016, the procedure for type approval and certification for Category T vehicles used for transportation of goods shall be in accordance with AIS: 113-2013- code of Practice for Type Approval of Category T, Trailers or Semi-trailers towed by Motor Vehicles of Category N2 and N3, as amended from time to time, till the corresponding BIS specifications are notified under the Bureau of Indian Standards Act, 1986 (63 of 1986).

(2) On and from the 1st day of April, 2016, the following vehicles shall conform to IS: 8007-2004 or AIS: 091 (Part-1) as amended from time to time, for all purposes of inter-changeability within the permissible Gross Combination Weight of the towing vehicle and the trailer or semi-trailer, namely:-

(a) Vehicles of Category N2 and Category N3 which are authorised to tow Category T;

(b) Category T vehicles which are authorised to be towed by vehicles of Category N2 and Category N3.

(3) On and from the 1st day of April, 2016, the close-coupling devices, wherever used in truck-trailer a tractor-trailer combinations covered under the scope of AIS-113 shall conform to AIS-092-2009, as amended from time to time, till the corresponding BIS specifications are notified under the Bureau of Indian Standards Act, 1986 (63 of 1986).]

^{69c}. Inserted by G.S.R. 409(E), dated 8-6-2014 (w.e.f. 8-6-2014).

^{69d}[125-E.Special requirements of motor vehicles transporting livestock. –

(1) On and after, the 1st January, 2016, motor vehicles used for transportation of livestock by road shall be in accordance with the specifications of the Bureau of Indian Standards as provided in IS- 14904: 2007; or IS-5238:2001; or IS-5236:1982, as the case may be, as amended from time to time and the transporter or consigner of the livestock shall follow the code of practise laid down in the respective specification regarding the transport of the livestock.

(2) Subject to sub-rule (1), the motor vehicles for carrying animals shall have permanent partitions in the body of the vehicle so that the animals are carried individually in each partition where the size of the partition shall not be less than the following namely:-

- (i) Cows and buffalos = 2 sq.mts.
- (ii) Horses and mares = 2.25 sq.mts
- (iii) Sheep and goat = 0.3 sq.mts.
- (iv) Pig = 0.6 sq.mts; and
- (v) Poultry = 40 cm sq.

(3) No motor vehicles meant for carrying animals shall be permitted to carry any other goods.

(4) The Regional Transport Officer shall issue special licences for the motor vehicles meant for carrying animals on the basis of vehicles modified in accordance with the provisions of sub-rule (2).]

^{69e}[125F-Type Approval of Road Ambulances of Vehicle categories L and M.

- Road Ambulances of categories L and M manufactured on and after the 1st April, 2018, shall be in accordance with AIS: 125 (Part1)-2014 as amended from time to time, for all types of ambulances specified therein, till the corresponding BIS specifications are notified under the Bureau of Indian Standards Act, 1986 (63 of 1986).

125-G Type Approval of Special Purpose Vehicles.- (1) The Motor Caravans manufactured on and after the 1st April, 2018, shall comply with the requirements stated in AIS-124:2014, as amended from time to time, till the corresponding BIS specifications are notified under the Bureau of Indian Standards Act, 1986 (63 of 1986).

^{69d}. Inserted by G.S.R. 546(E), dated 8-7-2015(w.e.f. 1-1-2016).

^{69e} Inserted by G.S.R. 868(E) dated 08.09.2016, (w.e.f 08.09.2016)

(2) The Motor Caravans built on the existing vehicles as permitted under the clause 0.0 (b) of the said standard shall also comply with AIS-124:2014, as amended from time to time, till the corresponding BIS specifications are notified under the Bureau of Indian Standards Act, 1986 (63 of 1986).]”.

^{69f}[125 H. Provision of vehicle location tracking device and emergency button :-

(1) All public service vehicles, as defined under clause (35) of section 2 of the Act, shall be equipped with or fitted with vehicle location tracking device and one or more emergency buttons:

Provided that this rule shall not apply to the following category of vehicles, namely:-

- (i) two wheelers;
- ^{69g}[(ii) E-rickshaw and
- (iii) three wheelers.]].

(2) The specifications, testing and certification of the vehicle location tracking device and emergency button referred to in sub-rule (1) shall be in accordance with AIS-140: 2016, as amended from time to time, till such time the corresponding BIS specifications are notified under the Bureau of Indian Standards Act, 1986 (63 of 1986).

(3) The vehicle location tracking device and emergency button referred to in sub-rule (1) shall be fitted by the manufacturer or their dealer or the respective operator, as the case may be, in accordance with AIS- 140: 2016, as amended from time to time, till such time the corresponding BIS specifications are notified under the Bureau of Indian Standards Act, 1986.”.

⁷⁰[126. Prototype of every motor vehicle to be subject to test.—On and from the date of commencement of Central Motor Vehicles (Amendment) Rules, 1993, every ⁷¹[manufacturer or importer] of motor vehicles other than trailers and semi-trailers shall submit the prototype of the vehicle ^{71a}[including trailers, semi-trailers and modular hydraulic trailer] ^{71b}[including registered association

^{69f} Inserted by G.S.R. 1095(E) dated 28-11-2016, (w.e.f 01-04-2018)

^{69g} substituted by G.S.R. 808(E), dated 23-10-2019 (w.e.f. 23-10-2019)

⁷⁰. R. 126 substituted by G.S.R. 338(E), dated 26-3-1993 (w.e.f. 26-3-1993).

⁷¹. Substituted by G.S.R. 111(E), dated 10-2-2004 (w.e.f. 10-8-2004).

^{71a}. Substituted by G.S.R. 212(E), dated 20-3-2015 (w.e.f. 1-4-2015).

^{71b}. Inserted by G.S.R. 709(E), dated 8-10-2014 (w.e.f 8-10-2014).

(identified by the concerned State Transport department) for E-rickshaw, wherever applicable] shall submit the prototype of the vehicle ⁷¹[to be manufactured or importer by him] for test by the Vehicle Research and Development Established of the Ministry of Defence of the Government of India or Automotive Research Association of India, Pune, ⁷²[or the Central Farm Machinery Testing and Training Institute, Budni (MP), or the Indian Institute of Petroleum, Dehradun, ⁷³[or the Central Institute of Road Transport, Pune or the International Centre for Automotive Technology, Manesar], ⁷⁴[or the Northern Region Farm Machinery Training and Testing Institute, Hissar (for testing of combine harvester)],^{74a}[or the Global Automotive Research Centre, Chennai]^{74b}[or the National Automotive Test Tracks (NATRAX), Indore] and such other agencies as may be specified by the Central Government for granting a certificate by that agency as to the compliance of provisions of the Act and these rules:]

⁷⁵[Provided further that the procedure for type approval of certification of motor vehicles for compliance to these rules shall be in accordance with the AIS: 0117-2000, as amended from time to time ^{75a}[and information on technical specifications shall be submitted by the vehicle manufacturer in accordance with AIS-007(Rev.5):2014.]].

⁷⁶[Provided that in that in respect to the vehicles imported into India as completely built units (CBU), the importer shall submit a vehicle of that particular model and type to the testing agencies for granting a certificate by that agency as to the compliance to the provisions of the Act and these rules.]

^{76c}[Provided also that the procedure for type approval and certification of agricultural tractors shall be in accordance with AIS-017 (Part 2) (Rev.2): 2016 standard as amended from time to time.]

^{76b}[Provided also that a bus body builder may self-certify the bus

⁷². Substituted by G.S.R. 276(E), dated 10-4-2007 (w.e.f 10-4-2007).

⁷³. Added by G.S.R. 276(E), dated 10-4-2007 (w.e.f. 10-4-2007).

⁷⁴. Inserted by G.S.R. 84(E), dated 9-2-2009 (w.e.f. 9-2-2009).

^{74a}. Inserted by G.S.R. 247(E), dated 15-03-2017 (w.e.f. 15-03-2017).

^{74b}. Inserted by G.S.R. 511(E), dated 18-07-2019 (w.e.f. 18-07-2019).

⁷⁵. Inserted by G.S.R. 642(E), dated 28-7-2000(w.e.f. 28-7-2000)

^{75a}. Inserted by G.S.R. 880(E), dated 14-09-2016(w.e.f. 14-09-2016)

⁷⁶. Inserted by G.S.R. 111(E), dated 10-2-2004 (w.e.f. 10-8-2004).

^{76a}. Inserted by G.S.R. 247(E), dated 15-03-2017 (w.e.f. 15-03-2017).

^{76b}. Inserted by G.S.R. 368 (E), dated 13-04-2018 (w.e.f. 13-04-2018).

^{76c}. Inserted by G.S.R. 1192(E), dated 10-12-2018 (w.e.f. 10-12-2018).

body built on a drive away chassis certifying compliance to the requirements of the Code and Practice for Bus Body Design and Approval in accordance with AIS:052, (Rev.1) as amended from time to time], as per the procedure notified by the Central Government in the official Gazette;

Provided further that the bus body builder shall provide a unique identification number to the self-certificate in the format XXXX XXXXXXXXXXXX wherein the first four characters represent body builder identification code followed by four digits indicating the year of fabrication followed by six digits signifying the serial number in the particular year.]

^{76a} [Provided also that prototype of bus bodies and truck bodies may be submitted for testing and type approval to engineering colleges specified by the State Government or the State Road Transport Undertakings duly approved by the State Government.].

⁷⁷[**126-A.** The testing agencies referred to in rule 126 shall, in accordance with the procedures laid down by the Central Government, also conduct tests on vehicles drawn from the production line of the manufacturer to verify whether these vehicles conform to the provisions of ⁷⁸[rules made under section 110 of the Act:]]

⁷⁹[Provided that in case the number of vehicles sold in India for a given base model and its variants (manufactured in India or imported to India) are less than 250 in any consecutive period of six months in a year, then such base model and its variants need not be subjected to the above test, if at least one model or its variants manufactured or imported by that manufacturer or importer, as the case may be, is subjected to such tests at least once in a year:

Provided further that, in case the number of base models and its variants manufactured/imported is more than one and if the individual base model and its variants are less than 250 in any consecutive period of six months in a year, then the testing agencies can pick up one of the vehicles out of such models and their variants once in a year for carrying out such test.]

^{77.} Inserted by G.S.R. 338(E), dated 26-3-1993 (w.e.f. 26-3-1993).

^{78.} Substituted by G.S.R. 221(E), dated 28-3-2001. For "rule 115" (w.e.f 28-3-2001).

^{79.} Inserted by G.S.R. 400(E), dated 31-5-2002 (w.e.f. 31-5-2002).

⁷⁵[^{79a}[**126B. Prototype of every construction equipment vehicle to be subject to test.**—(1) On and from the date of commencement of the Central Motor Vehicles (Sixth Amendment) Rules, 2000, every manufacturer of construction equipment vehicle shall submit the prototype of the construction equipment vehicle to be manufactured by him for test by any of the agencies referred to in rule 126 for granting a certificate by that agency as to the compliance of provisions of the Act and these rules.

^{79b}[(1-A) On and from the date of commencement of Central Motor Vehicle (Fourth Amendment) Rules, 2015, every manufacturer of combine harvester shall submit the prototype of the combine harvester to be manufactured by him that agency as to the compliance of the provisions of the Act and these rules.]

(2) The testing agencies referred to in rule 126 shall in accordance with the procedure laid down by the Central Government conduct tests on vehicles drawn from the production line of the manufacturer to verify whether the vehicles conform to the provisions of the Act, or rules or orders issued thereunder shall be renumbered as sub-rule (1) thereof and after sub-rule (1) as so, renumbered:]

⁸⁰[(Provided that the provisions of this sub-rule shall not be applicable in respect of any construction equipment up to and including 81[26th August, 2002.]

^{79b}[(2-A) The testing agencies referred to in rule 126 shall, in accordance with the procedure laid down by the Central Government, conduct tests on combine harvesters drawn from the production line of the manufacturer to verify whether the combine harvesters conform to the provisions of the Act, or rules, or orders issued there under:

^{81a}[**126.C.** On and from the date of final publication of this notification, the testing agencies specified in rule 126, in accordance with the procedure laid down by the Central Government, upload information regarding vehicle type approval on the portal <https://www.vahan.nic.in/markermode>:

^{79a}. substituted by G.S.R. 212(E), dated 20-3-2015 (w.e.f. 1-4-2015).

^{79b}. Inserted by G.S.R. 212(E), dated 20-3-2015 (w.e.f. 1-4-2015). 1st day of April, 1991 vide S.O 941(E), dated 11th December, 1990.

⁸⁰. Inserted by G.S.R. 675(E), dated 17-9-2001 (w.e.f. 17-9-2001).

⁸¹. Substituted by G.S.R. 242(E), dated 28-3-2002, for "31st March, 2002" (w.e.f 28-3-2002).

^{81a}. Inserted by G.S.R. 810(E), dated 17-11-2014(w.e.f. 17-11-2014).

Provided that the test agencies shall also enter the legacy data of type approvals for the period from the 1st January, 2013 till the.]

127. Quality certificate by manufacturer.—⁸²[(1)] On and from the date * of commencement of this rule, the sale of every motor vehicle manufactured shall be accompanied by a certificate of road-worthiness issued by the manufacturer in Form22.

^{82a}[(2) On and from the date of commencement of the Central Motor Vehicles (Sixth Amendment) Rules, 2000, the sale of every construction equipment vehicle manufactured shall be accompanied by a certificate of road-worthiness issued by the manufacturer in Form22.]

Special provisions

128. Tourist vehicles other than motor cabs, etc.—A tourist vehicle other than motor cab, taxicab, campers van house trailer, shall conform to the following specifications, namely:—

⁸⁴[(1)The dimension shall conform to the dimensions specified in rule 93.]

(2)**Structure.**—Structure of the tourist vehicle should be sturdy and strong structural frame work using suitable material of adequate sectional area and anaerodynamical shape. For exterior panelling, aluminium sheet or good quality panelling material should be used. As regards interior panelling it should cover the entire interior roof, sides, back and bulk head portions. The body should be made completely leak proof and dustproof. The vehicle should also be rattle proof. Sound deadening should also be done for all panelling including the floor.

⁸⁵[(3)**Passenger entrance and exit.**— The passenger entrance-cum-exit door shall be located on the left side of the vehicle and minimum door width shall be 685 millimetres. The door handle should be capable of being handled from inside as well as from outside. The door may be operated pneumatically or hydraulically or electrically with suitable locking devices.]

⁸². R. 127 renumbered as sub-R. (1) thereof by G.S.R. 642(E), dated 28-7-2000 (w.e.f. 28-7-2000)

^{82a} Inserted by G.S.R. 27(E), dated 13-1-2015(w.e.f. 13-1-2015).

⁸³. Inserted by G.S.R. 642(E), dated 28-7-2000(w.e.f. 28-7-2000).

⁸⁴. Substituted by G.S.R. 933(E), dated 28-10-1989(w.e.f. 28-10-1989).

⁸⁵. Sub-R. (3) substituted by G.S.R. 338(E), dated 26-3-1993(w.e.f. 26-3-1993).

⁸⁶[(4) **Emergency exit.**—The emergency exit provided on the tourist vehicle shall meet the following requirements, namely:—

(i) be clearly marked "EMERGENCY EXIT" in bold letters on the inside and the outside of the tourist vehicle;

(ii) be so designed as to open from inside and the outside of the tourist vehicle.

(iii) be equipped with a fastening device which can be quickly released but so designed as to offer protection against accidental release;

(iv) be easily accessible to persons of normal height standing on the ground outside the vehicle;

(v) be easily accessible to the passengers;

(vi) be such that no seat or other object placed in the vehicle shall restrict the passage to the emergency door;

(vii) be located either at the back or on to the right hand side of the vehicle; and

(viii) emergency exist may be provided in the form of a window with breakable glass. In such cases, a suitable device shall be provide data convenient place to break open the glass in the event of an emergency.]

(5) **Driver entry and exit.**—A separate door with suitable sliding window shall be provided for the driver near the driver seat.

(6) **Windscreen.**—(i) The front windscreen shall be of clear view and distortion free, with safety glass and shall be of full width of the tourist vehicle. If made in two halves, the width of the centre vertical joint, inclusive of the rubber glazing fitment of the front wind shield shall be such as to enhance the elegance of the tourist vehicle.

(ii) Rear windscreen shall be of safety glass or laminated safety glass. It shall match with the windows provided on the vehicle. Sliding curtains shall be provided on the rear windscreen.

(7) **Windows.**—Windows of tourist vehicles should have a minimum space of 14.25 millimetres and shall be of safety or laminated safety glass. Windows shall be of double sliding type slider running smoothly in channels without rattle.

⁸⁶. Sub-R. (4) substituted by G.S.R.589(E), dated 16-9-2005 (w.e.f 16-9-2006).

All safety or laminated safety glasses used for windows should conform to standards laid down by the Bureau of Indian Standards. Windows shall be provided with sliding curtains.

(8) **Ventilation**.—Adequate arrangements shall be provided for ventilation for the passenger compartment as well as the driver compartment. All ventilators and windows shall be such that when closed they will not permit ingress of rain water or dust in the passenger or driver compartment.

(9) **Luggage**.— (i) Luggage holds shall be provided at the rear or at the sides, or both, of the tourist vehicle with sufficient space and size, and shall be rattle proof, dust proof and water proof with safety arrangements;

(ii) The light luggage racks, on strong brackets shall be provided inside the passenger compartment running along the sides of the tourist vehicle. Except where nylon netting is used, the underside of the rack shall have padded upholstery to protect the passengers from an accidental hit. The general design and fitment of the rack shall be so designed as to avoid sharp corners and edges.

(10) **Seats and seating arrangements**.—⁸⁷[** *]

(ii) Seating layout shall be ⁸⁸[two and two or one and two or one and one] on either side, all seats facing forward, with a clear gang way of at least 355 Millimetres width at the centre. Each passenger seat shall have a minimum area of 447 millimetres x 457 millimetres and an arm rest on both sides and seat back of full height.

(iii) The seat frames shall be sturdy, properly finished and so mounted as to transfer the weight directly to the structural members of framework. The seats shall be of reclining type and adjustable.

(iv) The seats shall be so mounted as to provide at least 280 millimetres leg room from the front of the rear seat to the back of the front seat. A foot rest at suitable location and height shall be provided for every passenger.

(11) **Painting and finishing**.—The tourist vehicle shall be painted in a manner referred to in sub-rules (7) and (8) of rule 85- A in white colour with a blue ribbon of five centimetres width at the centre of the exterior of the body.

⁸⁷. Sub-C1. (i)omitted by G.S.R. 933(E), dated 28-10-1989 (w.e.f. 28-10-1989).

⁸⁸. Substituted by G.S.R. 933(E), dated 28-10-1989, for "two and two" (w.e.f. 28-10-1989).

(12) **Lighting.**—(i)(a)The passenger compartment shall be adequately illuminated.

(b)Arrangement shall be provided to eliminate reflection of the light from the passenger compartment on the windscreen.

(c)In addition to the lights in passenger compartment, at least two night-lights with coloured domes, shall be provided in the passenger compartment.

(ii)Front and rear destination boxes, if provided, shall be illuminated.

(iii) One independently operated light fitting shall be provided for illumination of the driver's or attendant's seat area.

(iv) A light fitting shall be provided for illuminating the steps at the passenger entrance door.

(v) Each luggage hold shall have a light fitting for illumination of that hold.

(vi) Wiring in the passenger compartment shall be with low tension cable conforming to IS: 2465 of size commensurate with the estimated current loading. The wires shall be carried in PVC sleevings or conduit or casing of adequate size. When any wire passes through a hold in a panel or sheet metallic components, a rubber grommet of adequate size shall be provided for protection of the insulation.

Fittings and accessories.— A tourist vehicle shall be equipped with the following,namely:—

(i) Convex rear view mirrors one on each side, universally adjustable and of adequate dimensions.

(ii) First-aid box with glazed front, with necessary medicines for first-aid.

(iii) Fire extinguisher, dry powder type located near the engine compartment.

(iv) Insulation on interior or exterior of the engine bonnet for reducing the noise and heat from the engine.

(v) Provision for locating vehicle tools securely.

(vi) Heavy duty wind screen wiper system.

(vii) Adjustable sun visors of adequate size for the driver and for the attendant.

(viii) Electrically operated wide indicators or blinkers, stop lights and parking lights.

(ix) Dual head lamps.

(x) Suitable illumination for the registration number plate at the rear.

(xi) Horn.

(xii) Electric fans, of 8 inches* sweep adjustable, at least eight in number, suitably spaced in the passenger compartment and controlled by switches located near the seat.

(xiii) Electric bell or buzzer located near the seat of driver or attendant and operated by at least four push button controls placed at suitable location in the passenger compartment.

(xiv) Ash trays near passenger seats of a design convenient for cleaning the mat Intermediate stops of the tourist vehicle.

(xv) Drinking water and ice-box.

(xvi) Rack for magazines and other reading material.

(xvii) Back pockets and numbers for each seat.

(xviii) Public address system with at least four speakers suitably located in the passenger compartment.

(xix) Document frame, located near the seat of driver, for carrying vehicle documents, Tax token, licence and permit.

(xx) Mud flaps for front and rear wheels:

⁸⁹[Provided that the provisions of clauses (2) and (7), sub-clause (iv) of clause (12), sub-clauses (ix), (xii) and (xiii) of clause (13), of this rule shall not apply to the vehicles of integral construction.]

^{89a}[Provided further that provisions of this rule shall not apply to tourist buses which comply with the provisions of AIS:52, AIS:119 or AIS:139].

⁹⁰[**128-A.Special provision for M3 category of vehicles.**—The provisions of sub-rule (4) of rule 128 shall apply to all M3 category of vehicles.]

⁸⁹. Added by G.S.R. 933(E), dated 28-10-1989(w.e.f. 28-10-1989).

^{89a} Added by G.S.R. 1462(E), dated 27-11-2017(w.e.f. 27-11-2017).

⁹⁰ Inserted by G.S.R. 589(E), dated 16-09-2005(w.e.f. 16-09-2005).

129. Transportation of goods of dangerous or hazardous nature to human life.—

(1) Every owner of a goods carriage transporting any dangerous or hazardous goods shall, in addition to complying with the provisions of any law for the time being in force in relation to any category of dangerous or hazardous goods, comply with the following conditions, namely:—

(i) every such goods carriage, carrying the same type of dangerous or hazardous goods (whether in bulk or in packages), shall display a distinct mark of the class label appropriate to the type of dangerous or hazardous goods specified in column 3 of the Table I to rule 137;

*203 millimetres.

(ii) every package containing dangerous or hazardous goods shall display the distinct class labels appropriate to the type of dangerous or hazardous goods specified in column 3 of the Table I to rule 137;

(iii) in the case of packages containing goods listed in Table III in rule 137 and which Represents two hazards as given in column 2 there of, such packages shall display distinct labels to indicate both the hazards;

⁹¹[(iv) every goods carriage carrying any dangerous or hazardous goods shall be Equipped with safety equipments for preventing fire, explosion or escape of hazardous or dangerous goods.]

⁹²[(2) One year from the date of commencement of Central Motor Vehicles (Amendment) Rules, 1993, every goods carriage carrying goods of dangerous or hazardous nature to human life, shall be fitted with techograph (an instrument to record the lapse of running time of the motor vehicle; time speed maintained, acceleration, deceleration,etc.) conforming to the specifications of the Bureau of Indian Standards.]

[**129-A. Spark arrester.**—Six months from the date of commencement of Central Motor Vehicles (Amendment) Rules, 1993, every goods carriage carrying goods of dangerous or hazardous nature to human life shall be fitted with a spark arrester.]

130. Manner of display of class labels.—(1) Where a class label is required to be displayed on a vehicle, it shall be so positioned that the size of the class label is at an angle of 45 degrees to the vertical and the size of such label shall not be of *****

^{91.} Added by G.S.R. 338(E), dated 26-3-1993(w.e.f. 26-3-1993).

^{92.} Inserted by G.S.R. 338(E), dated 26-3-1993 (w.e.f. 26-3-1993).

less than twenty-five millimetres square which may be divided into two portions, the upper half portion being reserved for the pictorial symbol and the lower half for the text:

Provided that in the case of smaller packages a suitable size of the label may be adopted.

(2) Where the class label consists of adhesive material, it shall be water proof and where it consists of metal or other substance on which the pictorial symbol and the text are printed, painted or affixed, they shall be affixed directly on such material and in every case, the surface of the vehicle surrounding the label shall be of a colour that contrasts vividly with the background of the class label.

(3) Every class label displayed on a vehicle shall be positioned in such a manner that it does not obscure other markings required to be displayed under any other law.

(4) Every goods carriage carrying any dangerous or hazardous goods shall display the class label on the places shown in the Table in rule 134.

⁹³**[131. Responsibility of the consignor for safe transport of dangerous or hazardous goods.]**—(1) It shall be the responsibility of the consignor intending to transport any dangerous or hazardous goods listed in Table III, to ensure the following, namely:—

(a) The goods carriage has a valid registration to carry the said goods;

(b) The vehicle is equipped with necessary first-aid, safety equipment and antidotes as may be necessary to contain any accident;

(c) That the transporter or the owner of the goods carriage has full and adequate information about the dangerous or hazardous goods being transported; and

(d) That the driver of the goods carriage is trained in handling the dangers posed during transport of such goods.

(2) Every consignor shall supply to the owner of the goods carriage, full and adequate information about the dangerous or hazardous goods being transported as to enable such owner and its driver to,—

^{93.} R.131 substituted by G.S.R. 338(E), dated 26-3-1993(w.e.f. 26-3-1993).

- Comply with the requirements of rules 129 to 137 (both inclusive) of these rules; and
- Be aware of the risks created by such goods to health or safety of any person.

(3) It shall be the duty of the consignor to ensure that the information is accurate and sufficient for the purpose of complying with the provisions of rules 129 to 137 (both inclusive) of these rules.]

⁹⁴[**132. Responsibility of the transporter or owner of goods carriage.**—(1) It Shall be the responsibility of the owner of the goods carriage transporting any dangerous or hazardous goods to ensure the following, namely:—

- (a) that the goods carriage has a valid registration to carry the said goods and the said carriage is safe for the transport of the said goods; and
- (b) the vehicle is equipped with necessary first-aid, safety equipment, toolbox and Antidotes as may be necessary to contain any accident.

(2) Every owner of a goods carriage shall, before undertaking the transportation of dangerous or hazardous goods in his goods carriage, satisfy himself that the information given by the consignor is full and accurate in all respects and correspond to the classification of such goods specified in rule 137.

(3) The owner of a goods carriage shall ensure that the driver of such carriage is given all the relevant information in writing as given in Annexure V of these rules in relation to the dangerous or hazardous goods entrusted to him for transport and satisfy himself that such driver has sufficient understanding of the nature of such goods and the nature of the risks involved in the transport of such goods and is capable of taking appropriate action in case of an emergency.

(4) The owner of the goods carriage carrying dangerous or hazardous goods, and the consignor of such goods shall lay down the route for each trip which the driver shall be bound to take unless directed or permitted otherwise by the Police Authorities. They shall also fix a time table for each trip to the destination and back with reference to the route so laid down.

(5) It shall be the duty of the owner to ensure that the driver of the goods carriage carrying dangerous or hazardous goods holds a driving licence as per provisions of rule 9 of these rules.

⁹⁴ R.132 substituted by G.S.R.338(E), dated 26-3-1993 (w.e.f.26-3-1993).

(6) Notwithstanding anything contained in rules 131 and 132, it shall be sufficient compliance of the provisions of these rules if the consignor transporting dangerous or hazardous goods and the owner of the goods carriage or the transporter, abides by these conditions within six months after the date of coming into force of the Central Motor Vehicles(Amendment) Rules,1993.]

⁹⁵[**133. Responsibility of the driver.**—(1) The driver of a goods carriage transporting Dangerous or hazardous goods shall ensure that the information given to him in writing under sub-rule (3) of rule 132 is kept in the driver's cabin and is available at all time while the dangerous or hazardous goods to which it relates, are being transported.

(2) Every driver of a goods carriage transporting any dangerous or hazardous goods shall observe at all times all the directions necessary for preventing fire, explosion or escape of dangerous or hazardous goods carried by him while the goods carriage is in motion, and when it is not being driven he shall ensure that the goods carriage is parked in a place which is safe from fire, explosion and any other risk, and at all times the vehicle remains under the control and supervision of the driver or some other competent person above the age of 18 years.]

134. Emergency information panel.—(1) Every goods carriage used for transporting any dangerous or hazardous goods shall be legibly and conspicuously marked with an emergency information panel in each of the three places indicated in the Table below so that the emergency information panel faces to each side of the carriage and to its rear and such panel shall contain the following information, namely:—

(i) the correct technical name of the dangerous or hazardous goods in letters not less than 50 millimetres high;

(ii) the United Nations class number for the dangerous or hazardous goods as given in Column 1, Table 1 appended with rule 137, in numerals not less than 100 millimetres high;

(iii) The class label of the dangerous or hazardous goods of the size of not less than 250 millimetres square;

(iv) The name and telephone number of the emergency services to be contacted in the Event of fire or any other accident in letters and numerals

⁹⁵.R. 133 substituted by G.S.R. 338(E), dated 26-3-1993).

that are not less than 50 millimetres high and the name and telephone number of the consign or of the dangerous or hazardous goods or of some other person from whom expert information and advice can be obtained concerning the measures that should be taken in the event of an emergency involving such goods.

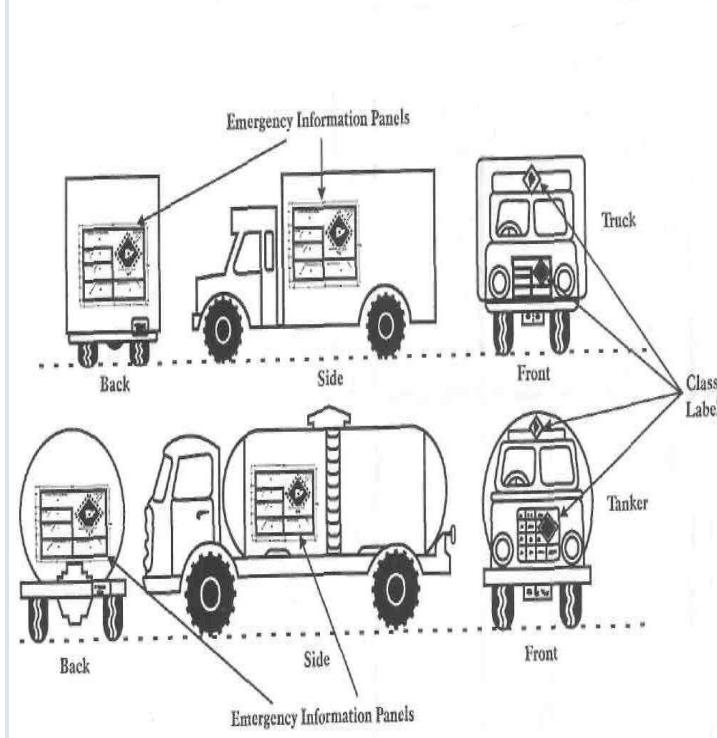
⁹⁶[(2) The information contained in sub-rule (1) shall also be displayed on the vehicle by means of a sticker relating to the particular dangerous or hazardous goods carried in that particular trip.]

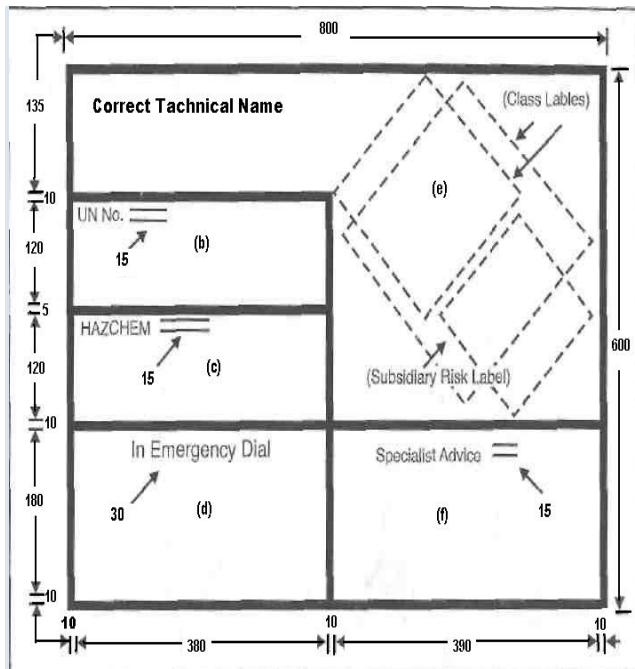
⁹⁷[(3)] Every class label and emergency information panel shall be marked on the goods carriage and shall be kept free and clean from obstructions at all times.

⁹⁶. Inserted by G.S.R. 338(E), dated 26-3-1993(w.e.f. 26-3-1993)

⁹⁷. Sub-R. (2) renumbered as sub-R. (3) by G.S.R.338(E), dated 26-3-1993 (w.e.f.26-3-1993).

**TABLE
PLACES FOR FIXING EMERGENCY INFORMATION PANELS ON VEHICLES
AND DIMENSIONS**





(All dimensions are expressed in millimetres)

135. Driver to be instructed. —The owner of every goods carriage transporting dangerous or hazardous goods shall ensure to the satisfaction of the consign or that the driver of the goods carriage has received adequate instructions and training to enable him to understand the nature of the goods being transported, by him, the nature of the risks arising out of such goods, precautions he should take while the goods carriage is in motion or stationary and the action he has to take in case of any emergency.

⁹⁸[**136. Driver to report to the police station about accident.** —The driver of a goods carriage transporting any dangerous or hazardous goods shall, on the occurrence of an accident involving any dangerous or hazardous goods transported by this carriage, report forthwith to the nearest police station and also inform the owner of the goods carriage or the transporter regarding the accident.]

137. Class labels. —In respect of the dangerous or hazardous goods specified in column (2) of the Table below, the labels specified in the corresponding entry in column (3) shall be the class labels, namely:—

⁹⁸ R. 136 substituted by G.S.R. 338(E), dated 26-3-1993(w.e.f. 26-3-1993)

⁹⁹ Table II & III substituted by G.S.R. 349(E), dated 01-06-2005(w.e.f. 01-06-2005)

Table I		
Class of Labels		
UN Class No.	Classification of goods	Class labels
(1)	(2)	(3)
1. Explosive	Symbol (exploding bomb): Black Background: Orange	
2. Gases, compressed, liquefied, dissolved under pressure or deeply refrigerated.		
2.1 Non-flammable gases	Symbol (gas cylinder) : Black or White Background: Green	
2.2 Inflammable gases	Symbol (Flame) : Black or White Background: Red	
2.3 Poison (toxic) gases	Symbol (skull and crossbones) : Black Background: White	
3. Inflammable Liquids	Symbol (flame) : Black or White Background: Red	
4. Inflammable solids, substance liable to spontaneous combustion; substances which, on contact with water, emit inflammable gases.		
4.1 Inflammable solids	Symbol (flame) : Black or white Background: Red	
4.2 Substances liable to spontaneous combustion	Symbol (flame) : Black Background: Upper half white and lower half red	

4.3 Substances which, on contact with water, emit inflammable gases	Symbol (flame) : Black or White Background: Blue	
5. Oxidizing substances and organic peroxides.		
5.1 Oxidizing substances	Symbol (flame over circle) : Black Background: Yellow	
5.2 Organic peroxides	Symbol (flame over circle) : Black Background: Yellow	
6. Poisonous (toxic) substances and infectious substances.		
6.1 Poisonous (toxic) substances	Symbol (skull and crossbones) : Black Background: White	
6.2 Harmful substances	The bottom half of the label should bear the inscription HARMFUL. Stow away from food-stuffs Symbol: (St. Andrew's cross over and ear of wheat) Background: White	
6.3 Infectious substances	The bottom half of the label should bear: Infectious substances (optional) and the inscription " In the case of damage or leakage immediately notify Public Health Authority (optional) Symbol :(three crescents superimposed on a circle) and inscription :Black Background: Right	
7. Radioactive substances	Symbol-3 segments of a circle - a number and lettering of the class label) shall be black on a white background and the parallel lines bordering the class label shall be black and shall be 5mm thick	

8. Corrosives	Symbol (liquids spilling from two glass vessels and attaching a hand and a metal) : Black Lower half black with white border	
----------------------	--	---

99 TABLE II
Indicative criteria

(A) Explosives :-

An explosive means a solid or liquid or pyrotechnic substance (or a mixture of substances) or an article,—

- (i) which is in itself capable by chemical reaction of production of gas at such a temperature and as such a speed as to cause damage to the surroundings;
- (ii) which is designed to produce an effect, by heat, light, sound, gas or smoke or a combination of these, of non-detonative self-sustaining exothermic chemical reaction.

(B) Gas:

(1) A gas is a substance which—

- (i) at 50° C has a vapour pressure greater than 300 k Pa; or
- (ii) is completely gaseous at 20° C at a standard pressure of 101.3 k Pa.

(2) Substances of gas are assigned to one of three following divisions based on the primary hazard of the gas during transport;

(a) Flammable gases: Gases which at 20°C and a standard pressure of 101.3 kPa,—

(i) are ignitable when a mixture of 13 percent or less by volume with air; or

(ii) have a flammable range with air of at least 12 percentage points regardless of the lower flammable limit. Flammability shall be determined by tests or by calculation in accordance with methods adopted by International Standards Organization [ISO: 10156:1996] or by Bureau of Indian Standards [IS:1446-1985];

(b) Non-flammable, non-toxic gases: Gases which are transported a pressure not less than 280 kPa at 20°C, or as refrigerated liquids and which,—

(i) are asphyxiant-gases which dilute or replace the oxygen normally in the atmosphere;

(ii) are oxidizing-gases which may, generally by providing oxygen, cause or contribute to the combustion of other material more than air does; or{Hi) do not come under the other divisions;

(c) Toxic gases: Gases which are known to be so toxic or corrosive to humans as to pose a hazard to health.

Note.—Gases meeting the above criteria owing to their corrosivity are classified as toxic with a subsidiary corrosive risk.

(C)Flammable chemicals:

(i) Flammable gases.—Gases which at 20° C and at standard pressure of 101.3k Pa are:—

(a) ignitable when a mixture of 13 percent or less by volume with air or

(b) have a flammable range with air of at least 12 percentage points regardless of the lower flammable limits.

Note.— The flammability shall be determined by tests or by calculation in accordance with methods adopted by International Standards Organization (ISO: 10156: 1996) or by Bureau of Indian Standards (IS:1446-1985).

(ii) Extremely flammable liquids. —Chemicals which have flash point lower than or equal to 23°C and boiling point less than 35°C.

(iii) Very highly flammable liquids. — Chemicals which have a flash point lower than or equal to 23°C and initial boiling point higher than 35°C.

(iv) Highly flammable liquids.—Chemicals with a flash point lower than or equal to 60°C but higher than 23°C.

(v) Flammable liquids.—Chemicals which have a flash point higher than 60°C but lower than 90°C.

(D) Reactive Substances:

Reactive substances are those substances which start reacting chemically with any other material and reducing gases through their owned composition. Such substances are Inorganic Alkalies (for example NaoH, Iodine and the like) and Acids (for example H₂S04, HN0₃, HCL and the like)

(E) Oxidizing Substances:**(a) Oxidizing substances:**

Substances which, while in themselves not necessarily combustible, may generally by yielding oxygen, cause or contribute to the combustion of other material. Such substances may be contained in an article;

(b) Organic peroxides:

Organic substances which contain the bivalent-0-0- structure and may be considered derivative of hydrogen peroxide, where one or both of the hydrogen atoms have been replaced by organic radials. Organic peroxides are thermally unstable substances which may undergo exothermic self-accelerating decomposition. In addition, they may have one or more of the following

properties,—

- (i) be liable to explosive decomposition;
- (ii) burn rapidly;
- (iii) be sensitive to impact or friction;
- (iv) react dangerously with other substances;
- (v) cause damage to the eyes.

(F) Toxic:

Toxic chemicals:— Chemical having the following values of acute toxicity and which owing to their physical and chemical properties, are capable of producing major accident hazards:

Sl.No.	Toxicity	Oral toxicity (mg/kg)	Dermal toxicity (mg/kg).	Inhalation toxicity (mg/l)
1	Extremely toxic	>5	<40	<0.5
2.	Highly toxic	>5-50	>40-200	<05-2.0
3.	Toxic.	>50-200.	>200-1000.	>2-10

1. LD50 oral in rats
2. LD50 coetaneous in rats or rabbits
3. LC50 by inhalation (four hours) in rats.

(G) Radioactive:

Radioactive materials mean any material containing radionuclide where both the activity concentration and the total activity in the consignment exceed the values specified, depending on the type of material by the Atomic Energy Commission of India.

(H) Corrosive:

Corrosive substances are substances which by chemical action will cause severe damage when in contact with living tissue or in the case of leakage will materially damage or even destroy other goods or the means of transport. They may also cause other hazards.

99 TABLE III

E – Explosive,	F – Flammable,	O – Oxidising,	R – Reactive,
C – Corrosive,	Ra – Radioactive,	T – Toxic,	G - Gas

List of Hazardous Goods

Sr. No.	Name	E	F	O	R	C	Ra	T	G
1.	1 Hexene	E	F						
2.	1 <u>Methylpiperidine</u>		F						
3.	1, l-Difluoroethylene (Refrigerated Gas R 1132a)								G
4.	1, 2-Dichloro- 1, 1, 2, 2-Tetrafluoroethane (Refrigerated Gas R 114)								G
5.	1, 1, 1, 2-Tetrafluoroethane (Refrigerant Gas R 134a)								G
6.	1, 1, 1 -Trifluoroethane (Refrigerant Gas R 143a)								G
7.	1, 1; Trichloroethane							T	
8.	1, 1 -Dichloro-l-Nitroethane							T	
9.	1, 1-Dichloroethane			F					
10.	1,1-Difluoroethane								G
11.	1,1-Dimethoxyethane		F						
12.	1, 2, 3, 6-Tetrahydrobenzaldehyde		F						
13.	1, 2, 3, 6-Tetrahydropyridine		F						
14.	1, 2-Butylene Oxide, Stabilized		F						
15.	1, 2-Di-(Dimethylamino) Ethane		F						
16.	1, 2-Dibromobutan 3-one							T	
17.	1, 2-Dichloroethylene		F						
18.	1, 2-Dichloropropane		F						

Sr. No.	Name	E	F	O	R	C	Ra	T	G
19.	1, 2-Dimethoxyethane		F						
20.	1, 2-Epoxy-3-Ethoxyp propane		F						
21.	1, 2-Propylenediamine					C			
22	1, 3, 5-Trimethylbenzene		F						
23	1, 3-Dichloroacetone						T		
24	1, 3-Dichloropropanol-2						T		
25	1, 3-Dimethylbutylamine		F						
26	1, 4-Butynediol						T		
27	1, 5, 9-Cyclododecatriene						T		
28	1-Bromo-3-chloropropane						T		
29	1-Bromo-3-Methylbutane		F						
30	1-Chloro-1,1-Difluoroethane (Refrigerant Gas R 142b)							G	
31	1-Chloro-2, 2, 2-Trifluoroethane (Refrigerant Gas R 133a)							G	
32	1-Ethylpiperidine		F						
33	1-Methoxy-2-Propanol		F						
34	1-Pentol					C			
35	2-(2-Aminoethoxy) Ethanol					C			
36	2, 2-Dimethylpropane							G	
37	2, 4-Toluylenediamine						T		
38	2, 2'-Dichlorodiethyl Ether						T		
39	2,3 Dihydropyran		F						
40	2,3-Dimethylbutane		F						
41	2-Amino-4, 6-Dintrophenol Wetted		F						
42	2-Amino-4-Chlorophenol							T	
43	2-Amino-5-Diethylaminopentane							T	
44	2-Bromo-2-Nitropropane-1, 3-Diol		F						
45	2-Bromoethyl Ethyl Ether		F						
46	2-Bromopentane		F						
47	2-Chloroethanal							T	

Sr. No.	Name	E	F	O	R	C	Ra	T	G
48	2-Chloropropane		F						
49	2-Chloropropene			F					
50	2-Chloropropionic Acid, Solid							T	
51	2-Chloropropionic Acid, Solution					C			
52	2-Chloropyridine							T	
53	2-Diethylaminoethanol					C			
54	2-Dimethylaminoacetonitrile		F						
55	2-Dimethylaminoethanol					C			
56	2-Dimethylaminoethyl Acrylate							T	
57	2-Dimethylaminoethyl Methacrylate							T	
58	2-Ethylaniline							T	
59	2-Ethylbutanol		F						
60	2-Ethylbutyraldehyde		F						
61	2-Ethylhexyl Chloroformate							T	
62	2-Ethylhexylamine		F						
63	2-Iodobutane		F						
64	2-Methyl-1-Butene		F						
65	2-Methyl-2-Butene		F						
66	2-Methyl-2-Heptanethios							T	
67	2-Methyl-5-Ethylpyridine							T	
68	2-Methylfuran		F						
69	2-Methylpentan-2-OL		F						
70	2-Trifluoromethylaniline							T	
71	3, 3-Diethoxypropene		F						
72	3, 3'-Iminodipropylamine					C			
73	3-Bromopropyne		F						
74	3-Chloro-4-Methylphenyl Isocyanate							T	
75	3-Chloropropanol-1							T	
76	3-Methyl-1-Butene		F						

Sr. No.	Name	E	F	O	R	C	Ra	T	G
77	3-Methylbutan-2-One		F						
78	3-Nitro-4-Chlorobenzotrifluoride					C			
79	3-Trifluoromethylaniline						T		
80	4 Methoxy-4-Methylpentan 2-one		F						
81	4, 4'-Diaminodiphenylmethane						T		
82	4-Chloro-o-Toluidine Hydrochloride						T		
83	4-Methylmorpholine (<i>N</i> -Methylmorpholine)		F						
84	4-Thiapentanal						T		
85	5-Methylhexan-2-one		F						
86	5-Nitrobenzotriazol	E							
87	5-tert-Butyl-2, 4, 6-Trinitro-m-Xylene (Musk Xylene)		F						
88	9-Phosphabicyclononanes Phosphines		F						
89	Acetaldehyde		F				T		
90	Acetaldehyde Ammonia						T		
91	Acetic Acid				C				
92	Acetic Acid Solution				C				
93	Acetic Acid, Glacial or Acetic Acid Solution				C				
94	Acetic Anhydride				C				
95	Acetic Cyanhydrin						T		
96	Acetone		F						
97	Acetone Cyanhydrin						T		
98	Acetone Cyanohydrine (2-Cyanopropan-2-OL)						T		
99	Acetone Oils		F						
100	Acetone Thiosemicarbazide						T		
101	Acetonitrile		F				T		
102	Acetyl Bromide				C				
103	Acetyl Chloride		F		C		T		
104	Acetyl Iodide				C				
105	Acetyl Methyl Carbinol		F						

Sr. No.	Name	E	F	O	R	C	Ra	T	G
106	Acetylene							T	G
107	Acetylene (Ethyne)		F						
108	Acetylene Tetra Chloride							T	
109	Acridine							T	
110	Acrolein (2-Propenal)		F					T	
111	Acrolein Dimer, Stabilized		F						
112	Acrylamide							T	
113	Acrylic Acid, Stabilized					C			
114	Acrylonitrile		F					T	
115	Adiponitrile							T	
116	Aerosols								G.
117	Aircraft Hydraylic Power Unit Fuel Tank		F						
118	Alcoholates Solution, N.O.S.		F						
119	Alcoholic Beverages		F						
120	Alcohols, Flammable, Toxic, N.O.S.		F						
121	Alcohols, N.O.S.		F						
122	Aldehydes, Flammable, Toxic, N.O.S.		F						
123	Aldehydes, N.O.S.		F						
124	Aldicarb							T	
125	Aldol							T	
126	Alkali Metal Alloy, Liquid, N.O.S.		F						
127	Alkali Metal Amalgam		F						
128	Alkali Metal Amides		F						
129	Alkali Metal Dispersion or Alkaline Earth Metal Dispersion		F						
130	Alkaline Earth Metal Alcoholates, N.O.S.		F						
131	Alkaline Earth Metal Amalgam		F						
132	Alkaline Metal Alcoholates, Self-I-leating, Corrosive, N.O.S.		F						
133	Alkaloids, Liquid, N.O.S. or Alkaloid Salts, Liquid, N.O.S.							T	

Sr. No.	Name	E	F	O	R	C	Ra	T	G
134	Alkyl Phthalate					C			
135	Alkylphenols, Liquid, N.O.S.					C			
136	Alkylphenols, Solid, N.O.S.					C			
137	Alkylsulphuric Acids					C			
138	Alkysulphonic Acids, Liquid Arkysulphonic Acids, Liquid					C			
139	Alkysulphonic Acids, Liquid or Arylsulphonic Acids, Liquid					C			
140	Alkysulphonic Acids, Solid or Arylsulphonic Acids, Solid					C			
141	Allyl Alcohol		F				T		
142	Allyl Alcohol (2-Propen-1-OL)		F				T		
143	Allyl Amine						T		
144	Allyl Bromide		F				T		
145	Allyl Chloride		F				T		
146	Allyl Chloroformate						T		
147	Allyl Glycidyl Ether		F						
148	Allyl Iodide		F						
149	Allylamine						T		
150	Allyltrichlorosilane, Stabilized					C			
151	Alpha Naphthyl Thiourea					C			
152	Alpha-Methylbenzyl Alcohol						T		
153	Alpha-Methylvaleraldehyde		F						
154	Alpha-Naphthylamine						T		
155	Alpha-Pinene		F						
156	Aluminium (Powder)						T		
157	Aluminium Alkyl Halides, Liquid/Solid		F						
158	Aluminium Alkyl Hydrides		F						
159	Aluminium Alkyls		F						
160	Aluminium Azide		F				T		
161	Aluminium Borohydride		F				T		

Sr. No.	Name	E	F	O	R	C	Ra	T	G
162	Aluminium Bromide Solution					C.			
163	Aluminium Bromide, Anhydrous					C			
164	Aluminium Carbide			F				T	
165	Aluminium Chloride					C			
166	Aluminium Chloride Solution					C			
167	Aluminium Chloride, Anhydrous					C			
168	Aluminium Fluoride					C			
169	Aluminium Hydride		F						
170	Aluminium Nitrate				O				
171	Aluminium Phosphide		F						
172	Aluminium Phosphide Pesticide							T	
173	Aluminium Resinate		F						
174	Aluminium Smelting By-Products or Aluminium Remelting By-Products		F						
175	Amines, Flammable, Corrosive, Flammable N.O.S. Polyaines, Liquid, Corrosive, Flammable, N.O.S.					C			
176	Amines, Flammable, Corrosive, N.O.S. or Polyaines, Flammable, Corrosive, N.O.S.		F						
177	Amines, Liquid, Corrosive, N.O.S. or Polyaines, Flammable, Liquid, Corrosive, N.O.S.					C			
178	Amines, Solid, Corrosive, N.O.S. or Polyamines, Solid, Corrosive, N.O.S.					C			
179	Amino Diphenyl							T	
180	Amino Pyridine							T	
181	Aminodiphenyl, -4							T	
182	Aminophenol-2							T	
183	Aminophenols (<i>o</i> -, <i>m</i> -, <i>p</i> -)							T	
184	Aminopyridines							T	
185	Aminopterin							T	
186	Amiton							T	
187	Amiton Dialate							T	
188	Ammonia							T	

Sr. No.	Name	E	F	O	R	C	Ra	T	G
189	Ammonia Solution							T	G
190	Ammonium Arsenate							T	
191	Ammonium Chloro Platinate							T	
192	Ammonium Dichromate				O				
193	Ammonium Dinitro-o-Cresolate							T	
194	Ammonium Fluoride							T	
195	Ammonium Fluorosilicate							T	
196	Ammonium Hydrogendifluoride Solution					C			
197	Ammonium Hydrogendifluoride, Solid					C			
198	Ammonium Metavanadate							T	
199	Ammonium Nitrate Fertilizer				O				
200	Ammonium Nitrate Fertilizer, N.O.S.				O				
201	Ammonium Nitrate Fertilizers				O				
202	Ammonium Nitrate, Liquid				O				
203	Ammonium Nitrates				O R				
204	Ammonium Nitrates in Fertilizers				O R				
205	Ammonium Perchlorate				O				
206	Ammonium Persulphate				O				
207	Ammonium Picrate	E					Ra		
208	Ammonium Picrate, Wetted		F						
209	Ammonium Polysulphide Solution					C			
210	Ammonium Polyvanadate							T	
211	Ammonium Sulfamate							T	
212	Ammonium Sulphide Solution					C			
213	Ammunition, Tear-Producing, Non-Explosive							T	
214	Ammunition, Toxic, Non-Explosive							T	
215	Ammonium Hydrogen Sulphate					C			
216	Amyl Acetates		F					T	
217	Amyl Acid Phosphate					C			

Sr. No.	Name	E	F	O	R	C	Ra	T	G
218	Amyl Butyrates		F						
219	Amyl Formates		F						
220	Amyl Nitrate		F						
221	Amylamine		F						
222	Amyltrichlorosilane					C			
223	Anabasine							T	
224	Aniline							T	
225	Aniline 2,4, 6-Trimethyl							T	
226	Aniline Hydrochloride							T	
227	Anisidine-P							T	
228	Anisidines							T	
229	Anisole		F						
230	Anisoyl Chloride					C			
231	Anthraquinone							T	
232	Anthrawuinone							T	
233	Antimony and Compounds					C		T	
234	Antimony Hydride (Stibine)		F					T	
235	Arasenous Trichloride							T	
236	Argon, Refrigerated Liquid								G
237	Arsenic and All Arsenic Compounds in any Form							T	
238	Arsenic Hydride (Arsene)							T	
239	Arsenic Pentoxide, Arsenic (V) Acid and Salts							T	
240	Arsenic Trioxide, Arsenious (III) Acids and Salts							T	
241	Asbestos							T	
242	Aviation Regulated Liquid, N.O.S./ Solids, N.O.S.	E	F						
243	Azinphos-Ethyl							T	
244	Azinphos Methyl							T	
245	Azoidic Arbonamide		F						
246	Barium Azide	E							

Sr. No.	Name	E	F	O	R	C	Ra	T	G
247	Barium Bromate			O					
248	Barium Chlorate			O					
249	Barium Cyanide							T	
250	Barium Hypochlorite			O					
251	Barium Nitrate					C			
252	Barium Nitride					C			
253	Barium Oxide							T	
254	Barium Perchlorate			O					
255	Barium Permanganate			O					
256	Barium Peroxide			O					
257	Batteries Fluid, Alkali					C			
258	Batteries Wet, Filled with Acid					C			
259	Batteries Wet, Filled with Alkali					C			
260	Batteries Wet, Non-Spillable					C			
261	Batteries, containing Sodium, or Cells, containing Sodium		F						
262	Batteries, Dry, containing Potassium Hydroxide Solid					C			
263	Benxoyl Peroxide			O					
264	Benzal Chloride			O					
265	Benzaldehyde			O					
266	Benzenamine, 3-Trifluoromethyl					C			
267	Benzene	F						T	
268	Benzene Arsenic Acid							T	
269	Benzene Chloride							T	
270	Benzene Sulfonyl Chloride							T	
271	Benzene, 1-(Chloromethyl)-4 Nitro							T	
272	Benzene, 1-(Chloromethyl) 4-Nitro							T	
273	Benzenesulphonyl Chloride	F			C				
274	Benzidine							T	
275	Benzidine Salts							T	

Sr. No.	Name	E	F	O	R	C	Ra	T	G
276	Benzimidazole, 4, 5-Dichloro-2 (Trifluoromethyl)							T	
277	Benzonitrile							T	
278	Benzoquinone							T	
279	Benzoquinone-P							T	
280	Benzotrichloride					C			
281	Benzoyl Chloride					C			
282	Benzoyl Peroxide	E						T	
283	Benzyl Bromide							T	
284	Benzyl Chloride							T	
285	Benzyl Chloroformate					C			
286	Benzyl Cyanide							T	
287	Benzyl Iodide							T	
288	Benzylidemethylamine					C			
289	Benzylidene Chloride							T	
290	Beryllium (Powder)							T	
291	Beryllium (Powders, Compounds)							T	
292	Beryllium Compound, N.O.S.							T	
293	Beryllium Nitrate			O					
294	Beryllium Powder							T	
295	Bipyridilium Pesticide Solid, Toxic							T	
296	Bipyridilium Pesticide, Liquid, Flammable, Toxic		F						
297	Bicyclo (2,2,1) Heptane-2-Carbonitrile							T	
298	Bicyclo (2.2.1) Hepta-2, 5-Diene, Stabilized (2, 5-Norbornadiene, Stabilized)		F						
299	Biphenyl							T	
300	Bipyridilium Pesticide, Liquid, Toxic							T	
301	Bipyridilium Pesticide, Liquid, Toxic, Flammable							T	
302	BIS (2,4, 6-Trinitrophenylamine)					C			
303	BIS (2, 4, 6-Trinitrophenyl) Amine	E						T	

Sr. No.	Name	E	F	O	R	C	Ra	T	G
304	BIS (2-Chloromethyl) Sulphide							T	
305	BIS (2-Chloromethyl) Ketone							T	
306	BIS (Chloromethyl) Ether							T	
307	BIS (Chloromethyl) Ketone							T	
308	BIS (Terbutylperoxy) Butane		F					T	
309	BIS (Tert-Butyl Peroxy) Cyclohexane					C		T	
310	BIS (Tert-Butylperoxy Butane, -2,2)					C		T	
311	BIS (Tert-Butylperoxy) Cyclohexane, 1, 1					C		T	
312	BIS (Tert-Butylperoxy) Cyclohexane-1,1				R				
313	BIS (Teri-Butylperoxy, Butane, 2, -2)				R				
314	BIS, 1, 2 Tribromophenoxy-Ethane							T	
315	Bismuth & Compounds						Ra	T	
316	Bisphenol							T	
317	Bi sulphates, Aqueous Solution					C			
318	Bisulphites, Aqueous Solution, N.O.S.					C			
319	Bitoscanate			O					
320	Blue Asbestos or Brown Asbestos							T	
321	Bombs, Smoke, Non-Explosive				C				
322	Boron and Compounds							T	
323	Boron Powder							T	
324	Boron Tribiomide				C				
325	Boron Trichoride								G
326	Boron Trifluoride							T	
327	Boron Trifluoride Acetic Acid Complex				C				
328	Boron Trifluoride Comp. with Methyl-Ether 1:1							T	
329	Boron Trifluoride Diethyl Etherate				C				
330	Boron Trifluoride Dihydrate				C				
331	Boron Trifluoride Dimethyl Etherate		F						
332	Boron Trifluoride Propionic Acid Complex					C			

Sr. No.	Name	E	F	O	R	C	Ra	T	G
333'	Boron Trifluoride, Compressed								G
334	Boron Trochloride							T	
335	Bromates, Inorganic, Aqueous Solution, N.O.S.					O			
336	Bromates, Inorganic, N.O.S.					O			
337	Bromine							T	
338	Bromine Chloride								G
339	Bromine or Bromine Solution					C			
340	Bromine Pentafluoride					O			
341	Bromine Trifluoride					O			
342	Bromo Chloro Methane					C			
343	Bromoacetic acid					C			
344	Brorrmoacetyl Bromide					C			
345	Bromobenzene		F			C			
346	Bromobenzyl Cyanides, Liquid/Solid							T	
347	Bromochloromethane							T	
348	Bromoform							T	
349	Bromomethylpropanes		F						
350	Bromopropanes		F						
351	Bromotrifluoroethylene								G
352	Bromotrifluoromethane								G
353	Butadiene							T	
354	Butadiene-1, 3					R		T	
355	Butadienes, Stabilized								G
356	Butane								G
357	Butanedione		F						
358	Butanone-2					R		T	
359	Butoxy Ethanol								T
360	Butyl Acid Phosphate					C			
361	Butyl Acrylates, Stabilized		F						

Sr. No.	Name	E	F	O	R	C	Ra	T	G
362	Butyl Alcohol		F		R				
363	Butyl Glycidal Ether							T	
364	Butyl Mercaptan			F					
365	Butyl Methyl Ether		F						
366	Butyl Nitrites		F						
367	Butyl Peroxy Isopropyl Carbonate, Tert				R				
368	Butyl Peroxyacetate, Tert				R				
369	Butyl Peroxyisobutyrate, Tert				R				
370	Butyl Peroxymaleate, Tert				R				
371	Butyl Peroxymaleme Tert			O					
372	Butyl Peroxypivalate Tert					C			
373	Butyl Propionates		F						
374	Butyl Vinyl Ether					C			
375	Butyl Vinyl Ether, Stabilized		F						
376	Butylamine				R	C			
377	Butylbenzenes		F						
378	Butylene							G	
379	Butylglycidal Ether						T		
380	Butyl-N-Mercaptan						T		
381	Butyltoluenes						T		
382	Butyltrichlorosilane					C			
383	Butyraldoxime		F						
384	Butyric Acid					C			
385	Butyric Anhydride					C			
386	Butyronitrile		F						
387	Butyryl Chloride		F						
388	C. I. Basic Green						T		
389	C9 Aromatic Hydrocarbon Fraction						T		
390	Cadmium and Compounds						T		

Sr. No.	Name	E	F	O	R	C	Ra	T	G
391	<i>Cadmium Carbide</i>							<i>T</i>	
392	<i>Cadmium Compound</i>							<i>T</i>	
393	<i>Cadmium Cyanide</i>							<i>T</i>	
394	<i>Cadmium Oxide</i>				<i>O</i>				
395	<i>Cadmium Oxide (Fumes)</i>							<i>T</i>	
396	<i>Cadmium Stearate</i>							<i>T</i>	
397	<i>Caesium Hydroxide</i>					<i>C</i>			
398	<i>Caesium Nitrate</i>				<i>O</i>				
399	<i>Calcium Arsenate</i>							<i>T</i>	
400	<i>Calcium Carbide</i>		<i>F</i>						
401	<i>Calcium Chlorate, Aqueous Solution</i>			<i>O</i>					
402	<i>Calcium Cyanamide</i>		<i>F</i>						
403	<i>Calcium Cyanide</i>							<i>T</i>	
404	<i>Calcium Dithionite (Calcium Hydrosulphite)</i>		<i>F</i>						
405	<i>Calcium Hydride</i>		<i>F</i>						
406	<i>Calcium Hypochloride, Dry or Calcium Hypochloride Mixture, Dry</i>			<i>O</i>					
407	<i>Calcium Hypochlorite Mixture</i>			<i>O</i>					
408	<i>Calcium Hypochlorite, Hydrated or Calcium Hypochlorite, Hydrated Mixture</i>			<i>O</i>					
409	<i>Calcium Manganese Silicon</i>		<i>F</i>						
410	<i>Calcium Oxide</i>					<i>C</i>			
411	<i>Calcium Perchlorate</i>			<i>O</i>					
412	<i>Calcium Permanganate</i>			<i>O</i>					
413	<i>Calcium Peroxide</i>			<i>O</i>					
414	<i>Calcium Resinate</i>		<i>F</i>						
415	<i>Calcium Silicide</i>		<i>F</i>						
416	<i>Calcium, Pyrophoric or Calcium Alloys, Pyrophoric</i>		<i>F</i>						
417	<i>Camphor</i>		<i>F</i>						
418	<i>Camphor Oil</i>		<i>F</i>						
419	<i>Caprioc Acid</i>					<i>C</i>			

Sr. No.	Name	E	F	O	R	C	Ra	T	G
420	Carbamate Pesticide, Liquid, Toxic							T	
421	Carbamate Pesticide, Liquid, Toxic		F						
422	CarbamatePesticide,Liquid,Toxic,Flammable							T	
423	Carbamate Pesticide, Solid, Toxic							T	
424	Carbaryl (Sevin)							T	
425	Carbofuran							T	
426	Carbofuran (Furadan)							T	
427	Carbon Dioxide Refrigerated Liquid								G
428	Carbon Disulphide		F					T	
429	Carbon Monoxide		F					T	
430	Carbon Monoxide and Hydrogen Mixture, Compressed							T	G
431	Carbon Tetrabromide							T	
432	Carbon Tetrachloride							T	
433	Carbon, Activated		F						
434	Carbonyl Fluoride, Compressed								G
435	Carbonyl Sulphide							T	
436	Carbophenothion							T	
437	Cartridges	E							
438	Caustic Alkali Liquid, N.O.S.					C			
439	Cehulose Nitrate	E	F						
440	Celluloid		F						
441	Celluloid, Scrap		F						
442	Cellulose Nitrate	E	F						
443	Cerium		F						
444	Chemical Sample, Toxic							T	
445	Chloral, Anhydrous, Stabilized							T	
446	Chlorates (Used in Explosives)	E							
447	Chlorates, Inorganic, Aqueous Solution, N.O.S.			O					
448	Chlorfenvinphos							T	

Sr. No.	Name	E	F	O	R	C	Ra	T	G
449	<i>Chloic Acid, Aqueous</i>			O					
450	<i>Chlorinated Benzenes</i>							T	
451	<i>Chlorine</i>							T	G
452	<i>Chlorine Dioxide</i>							T	
453	<i>Chlorine Oxide</i>							T	
454	<i>Chlorine Pentafluoride</i>								G
455	<i>Chlorine Trifluoride</i>								G
456	<i>Chlorite Solution</i>					C			
457	<i>Chlorites, Inorganic, N.O.S.</i>			O					
458	<i>Chlorites, Inorganic, N.O.S.</i>			O					
459	<i>Chlormephos</i>							T	
460	<i>Chlormequat Chloride</i>							T	
461	<i>Chloroacetal Chloride</i>					C		T	
462	<i>Chloroacetaldehyde</i>							T	
463	<i>Chloroacetic Acid</i>							T	
464	<i>Chloroacetic Acid Solution</i>			O					
465	<i>Chloroacetic Acid, Molten</i>							T	
466	<i>Chloroacetic Acid, Solid</i>							T	
467	<i>Chlnroacetone, Stabilized</i>							T	
468	<i>Chloroacetonitrile</i>							T	
469	<i>Chloroacetophenone</i>							T	
470	<i>Chloroacetyl Chloride</i>					C		T	
-471	<i>Chloroaniline, -2</i>							T	
472	<i>Chloroaniline, -4 -</i>							T	
473	<i>Chloroaniline-2</i>							T	
474	<i>Chloroaniline-4</i>							T	
475	<i>Chloroanilines, Liquid</i>							T	
476	<i>Chloroanilines, Solid</i>							T	
477-	<i>Chloroanisidines</i>							T	

Sr. No.	Name	E	F	O	R	C	Ra	T	G
478	<i>Chlorobenzene</i>		<i>F</i>					<i>T</i>	
479	<i>Chlorobenzotrifluorides</i>		<i>F</i>						
480	<i>Chlorobenzyl Chlorides</i>							<i>T</i>	
481	<i>Chlorobutanes</i>		<i>F</i>						
482	<i>Chlorocresols</i>							<i>T</i>	
483	<i>Chlorodifluorobromomethane (Refrigerant Gas R 12B1)</i>								<i>G</i>
484	<i>Chlorodifluoromethane and Chloropentafluoroethane Mixture</i>								<i>G</i>
485	<i>Chlorodifluromethane</i>								<i>G</i>
486	<i>Chlorodinitrobenzenes, Liquid</i>							<i>T</i>	
487	<i>Chlorodinitrobenzenes, Solid</i>							<i>T</i>	
488	<i>Chlorodiphenyl</i>							<i>T</i>	
489	<i>Chloroepoxypropane</i>							<i>T</i>	
490	<i>Chloroethanol</i>							<i>T</i>	
491	<i>Chloroethyl Chloroformate</i>							<i>T</i>	
492	<i>Chlorofenvinphos</i>							<i>T</i>	
493	<i>Chlorofluorocarbons</i>							<i>T</i>	
494	<i>Chloroform</i>							<i>T</i>	
495	<i>Chloroformates, Toxic, Corrosive, N.O.S.</i>							<i>T</i>	
496	<i>Chloroformyl Morpholine</i>							<i>T</i>	
497	<i>Chloroformyl, -4 Morpholine</i>							<i>T</i>	
498	<i>Chloromethane</i>							<i>T</i>	
499	<i>Chloromethyl Chloroformate</i>							<i>T</i>	
500	<i>Chloromethyl Ether</i>							<i>T</i>	
501	<i>Chloromethyl Ethyl Ether</i>		<i>F</i>						
502	<i>Chloromethyl Methyl Ether</i>							<i>T</i>	
503	<i>Chloromormates, Toxic, Corrosive, Flammable, N.O.S.</i>							<i>T</i>	
504	<i>Chloronitroanilines</i>							<i>T</i>	
505	<i>Chloronitrobenzene</i>	<i>E</i>						<i>T</i>	

Sr. No.	Name	E	F	O	R	C	Ra	T	G
506	<i>Chloronitrobenzenes</i>							T	
507	<i>Chloronitrotoluenes, Liquid/Solid</i>							T	
508	<i>Chloropentafluoroethane</i>								G
509	<i>Chlorophacinone</i>							T	
510	<i>Chlorophenolates, Liquid or Phenolates, Liquid</i>					C			
511	<i>Chlorophenolates, Solid or Phenolates, Solid</i>					C			
512	<i>Chlorophenols, Liquid</i>							T	
513	<i>Chlorophenyltrichloro-Silane</i>					C			
514	<i>Chloropicrin</i>							T	
515	<i>Chloropicrin Mixture, N.O.S.</i>							T	
516	<i>Chloroplatinic Acid, Solid</i>					C			
517	<i>Chloroprene</i>		F					T	
518	<i>Chloroprene, Stabilized</i>		F						
519	<i>Chlorosilanes, Corrosive, Flammable, N.O.S.</i>					C			
520	<i>Chlorosilanes, Corrosive, N.O.S.</i>					C			
521	<i>Chlorosilanes, Flammable, Corrosive, N.O.S.</i>		F						
522	<i>Chlorosulphonic Acid</i>					C			
523	<i>Chlorothiophos</i>							T	
524	<i>Chlorotoluenes</i>		F						
525	<i>Chlorotoluidines</i>							T	
526	<i>Chlorotrifluoromethane</i>								G
527	<i>Chlorotrifluoromethane and Trifluoromethane Azeotropic Mixture</i>								G
528	<i>Chlorotrinitrobenzene</i>	E						T	
529	<i>Chloroxuron</i>							T	
530	<i>Chlorophenols, Solid</i>							T	
531	<i>Chloroethyl Chloroformate</i>							T	
532	<i>Chromic Acid</i>			O		C		T	
533	<i>Chromic Acid Solution</i>					C			
534	<i>Chromic Chloride</i>			O		C		T	

Sr. No.	Name	E	F	O	R	C	Ra	T	G
535	<i>Chromic Fluoride Solution</i>					C			
536	<i>Chromic Fluoride, Solid</i>					C			
537	<i>Chromium and Compounds</i>							T	
538	<i>Chromium Nitrate</i>			O					
539	<i>Chromium Oxychloride</i>					C			
540	<i>Chromium Powder</i>							T	
541	<i>Chromium Trioxide, Anhydrous</i>			O					
542	<i>Chromosulphuric Acid</i>					C			
543	<i>Clinical Waste, Unspecified, N.O.S. or (bio) Medical Waste, N.O.S. or Regulated Medical Waste, N.O.S.</i>							T	
544	<i>Chlorine</i>							T	
545	<i>Coal Tar Distillates, Flammable</i>		F						
546	<i>Cobalt & Compounds</i>							T	
547	<i>Cobalt (Powder)</i>							T	
548	<i>Cobalt Carbonyl</i>							T	
549	<i>Cobalt Naphthenates, Powder</i>		F						
550	<i>Cobalt Nitrilmethyldyne Compound</i>							T	
551	<i>Cobalt Resinate, Precipitated</i>	F							
552	<i>Coloured Fire</i>	E							
553	<i>Compressed Gas, Flammable, N.O.S.</i>							G	
554	<i>Compressed Gas, Toxic, Flammable Corrosive, N.O.S.</i>	F			C			T	
555	<i>Copper Acetoarsenite</i>							T	
556	<i>Copper and Compounds</i>							T	
557	<i>Copper Arsenite</i>							T	
558.	<i>Copper Based Pesticide, Liquid, Flammable, Toxic</i>	F							
559	<i>Copper Based Pesticide, Liquid, Toxic</i>							T	
560	<i>Copper Based Pesticide, Liquid, Toxic, Flammable</i>							T	
561	<i>Copper Based Pesticide, Solid, Toxic</i>							T	
562	<i>Copper Chlorate</i>			O					

Sr. No.	Name	E	F	O	R	C	Ra	T	G
563	<i>Copper Chloride</i>					C			
564	<i>Copper Cyanide Copperoxychloride</i>							T	
565	<i>Coroformyl, -4 Niorpholine</i>							T	
566	<i>Corrosive Liquid, Acidic, Inorganic, N.O.S.</i>					C			
567	<i>Corrosive Liquid, Acidic, Organic, N.O.S.</i>					C			
568	<i>Corrosive Liquid, Basic, Inorganic, N.O.S.</i>					C			
569	<i>Corrosive Liquid, Basic, Organic, N.O.S.</i>					C			
570	<i>Corrosive Liquid, Flammable, N.O.S.</i>					C			
571	<i>Corrosive Liquid, Oxidizing, N.O.S.</i>					C			
572	<i>Corrosive Liquid, Self-Heating, N.O.S.</i>					C			
573	<i>Corrosive Liquid, Toxic, N.O.S.</i>					C			
574	<i>Corrosive Liquid, Water-Reactive, N.O.S.</i>					C			
575	<i>Corrosive Solid, Acidic, Inorganic, N.O.S.</i>					C			
576	<i>Corrosive Solid, Acidic, Organic, N.O.S.</i>					C			
577	<i>Corrosive Solid, Basic, Inorganic, N.O.S.</i>					C			
578	<i>Corrosive Solid, Basic, Organic, N.O.S.</i>					C			
579	<i>Corrosive Solid, Oxidizing, N.O.S.</i>					C			
580	<i>Corrosive Solid, Toxic, N.O.S.</i>					C			
581	<i>Corrosive Solid, Water-Reactive, N.O.S.</i>					C			
582	<i>Coumarin Derivative Pesticide, Liquid, Flammable, Toxic</i>				F				
583	<i>Coumarin Derivative Pesticide, Liquid, Toxic</i>							T	
584	<i>Coumarin Derivative Pesticide, Liquid, Toxic, Flammable</i>							T	
585	<i>Coumarin Derivative Pesticide, Solid, Toxic</i>							T	
586	<i>Coumatetralyl</i>							T	
587	<i>Cresols</i>							T	
588	<i>Cresols, Liquid/Liquid</i>							T	
589	<i>Cresylic Acid</i>							T	
590	<i>Crimidine</i>							T	
591	<i>Crotonaldehyde</i>		F					T	

Sr. No.	Name	E	F	O	R	C	Ra	T	G
592	<i>Crotonic Acid</i>					C			
593	<i>Cumene</i>							T	
594	<i>Cupriethylenediamine Solution</i>					C			
595	<i>Cyanide Solution, N.O.S.</i>							T	
596	<i>Cyanides, Inorganic, Solid, N.O.S.</i>							T	
597	<i>Cyanogen</i>								G
598	<i>Cyanogen Bromide</i>							T	
599	<i>Cyanogen Chloride, Stabilized</i>							T	G
600	<i>Cyanogen Iodide</i>							T	
601	<i>Cyanothoate</i>							T	
602	<i>Cyanuric Chloride</i>					C			
603	<i>Cyanuric Fluoride</i>							T	
604	<i>Cyclobutane</i>								G
605	<i>Cyclobutyl Chloroformate</i>							T	
606	<i>Cycloheptane</i>				F				
607	<i>Cycloheptene</i>				F				
608	<i>Cyclohetatriene</i>				F				
609	<i>Cyclohexane</i>				F				
610	<i>Cyclohexanone</i>				F			T	
611	<i>Cyclohexene</i>				F				
612	<i>Cyclohexenyltrichlorosilane</i>					C			
613	<i>Cycloheximide</i>							T	
614	<i>Cyclohexyl Acetate</i>				F				
615	<i>Cyclohexyl Isocyanate</i>							T	
616	<i>Cyclohexyl Mercaptan</i>				F				
617	<i>Cydohexylamine</i>					C			
618	<i>Cyclohexyltrichlorosilane</i>					C			
619	<i>Cyclooctadienes</i>				F				
620	<i>Cyclooctatetraene</i>				F				

Sr. No.	Name	E	F	O	R	C	Ra	T	G
621	<i>Cyclopentadine</i>		F					T	
622	<i>Cyclopentane</i>		F						
623	<i>Cyclopentanol</i>			F					
624	<i>Cyclopentanone</i>			F					
625	<i>Cyclopentene</i>			F					
626	<i>Cyclopropane</i>								G
627	<i>CyclotetramethyleneTetranitramine</i>	E							
628	<i>Cyclotetramethylenetetranitramine (HMX, Octogen), Wetted</i>	E							
629	<i>Cyclotrimethylenetrinitramine & Cyclotetramethylenetetranitramine Mixture Wetted or Cydotrimethyle</i>	&	E						
630	<i>Cymens</i>		F						
631	<i>DDT</i>							T	
632	<i>Decaborane</i>							T	
633	<i>Decaboraneo</i>		F						
634	<i>Decabromodiphenyl Oxide</i>							T	
635	<i>Decahydronaphthalene</i>		F						
636	<i>Deglagrating Metal Salts of Aromatic Nitroderivatives, N.O.S.</i>	E							
637	<i>Demeton</i>							T	
638	<i>Demeton S-Methyl</i>							T	
639	<i>Detonators</i>	E							
640	<i>Deuterium, Compressed</i>								G
641	<i>Devices, Small, Hydrocarbon Gas Powered or Hydrocarbon Gas Refills for small Devices</i>								G
642	<i>Dhsobutylarnine</i>		F						
643	<i>Diacetone Alcohol</i>		F						
644	<i>Dialifos</i>							T	
645	<i>Diallyl Ether</i>		F						
646	<i>Diallylamine</i>		F						
647	<i>Diazodinitrophenol</i>	E							

Sr. No.	Name	E	F	O	R	C	Ra	T	G
648	Diazodinitrophenol, Wetted	E	F						
649	Diazomethane							T	
650	Dibenzyl Peroxydicarbonate					R			
651	Dibenzyl Peroxydicarbonate (CONC> =90%)							T	
652	Dibenzylchlorosilane					C			
653	Diborane							T	
654	Diborane, Compressed								G
655	Dibromochloropropanes							T	
656	Dibromodifluoromethane							T	
657	Dibromomethane							T	
658	Dibutyl Ethers			F					
659	Dibutylaminoethanol							T	
660	Dichloro Obenzene-O							T	
661	Dichloroacetic Acid					C			
662	Dichloroacetyl Chloride					C			
663	Dichloroacetylene							T	
664	Dichloroacetylene-O							T	
665	Dichloroanilines, Liquid							T	
666	Dichlorobenzalkonium Chloride							T	
667	Dichlorobenzene-P							T	
668	Dichlorodifluoromethane								G
669	Dichlorodifluoromethane and Difluoroethane Azeotropic Mixture								G
670	Dichlorodimethyl Ether, Symmetrical							T	
671	Dichloroethane							T	
672	Dichloroethyl Ether							T	
673	Dichloroisocyanuric Acid, Dry or Dichloroisocyanuric Acid Salts					O			
674	Dichloroisopropyl Ether							T	
675	Dichloromethane							T	
676	Dichloromethyl Phenylsilane							T	

Sr. No.	Name	E	F	O	R	C	Ra	T	G
677	Dichloropentanes		F						
678	Dichlorophenol, -2,4 & -2,6							T	
679	Dichlorophenoxy Acetic Acid							T	
680	Dichlorophenoxy Acetic Acid, -2,4 (2, 4-D)							T	
681	Dichlorophenyl Isocyanates							T	
682	Dichlorophenyl Trichlorosilane					C			
683	Dichloropropane 2, 2							T	
684	Dichloropropane, -1, 2							T	
685	Dichloropropens		F						
686	Dichlorosalicylic Acid-3,5							T	
687	Dichlorosalicylic Acid-3,5							T	
688	Dichlorosilane								G
689	Dichlorvos (DDVP)							T	
690	Dicrotophos							T	
691	Dicyclohexylamine					C		T	
692	Dicyclohexylammonium Nitrite		F						
693	Dicyclopentadiene		F						
694	Didymium Nitrate			O					
695	Diepoxy Butane							T	
696	Diepoxy Butane							T	
697	Diethleneglycol Butyl Ether							T	
698	Diethoxymethane		F						
699	Diethye Peroxijdicarbonate					R			
700	Diethyl Carbamazaine Citrate					R			
701	Diethyl Carbamazine Citrate					R			
702	Diethyl Carbonate		F						
703	Diethyl Chlorophosphate							T	
704	Diethyl Ethanolamine							T	
705	Diethyl Ether (Ethyl Ether)		F						

Sr. No.	Name	E	F	O	R	C	Ra	T	G
706	Diethyl Glycol Dinitrate							T	
707	Diethyl Ketone		F						
708	Diethyl Peroxydicarbonate							T	
709	Diethyl Peroxydicarbonate (CONC=30%)							T	
710	Diethyl Phenylene Diamine							T	
711	Diethyl Sulphate							T	
712	Diethyl Sulphide		F						
713	Diethylamine					R			
714	Diethylamine Ethanol							T	
715	Diethylaminopropylamine		F						
716	Diethylbenzene		F						
717	Diethyldichlorosilane					C			
718	Diethylene Glycol							T	
719	Diethylene Glycol Butyl Ether							T	
720	Diethylene Glycol Dinitrate							T	
721	Diethylene Triamine							T	
722	Diethyleneglycol Butyl Ether/Diethyleneglycol Butyl Acetate							T	
723	Diethyleneglycol, Dinitrate, Desensitized	E				C			
724	Diethylenetriamine					C			
725	Diethylenetriamine (DETA)					C			
726	Diethylthiophosphoryl Chloride					C			
727	Difluoromethane (Refrigerant Gas R 32)							G	
728	Difluorophosphoric Acid, Anhydrous					C			
729	Digitoxin					C			
730	Diglycidyl Ether							T	
731	Dihlorofluoromethane							G	
732	Dihydroperoxypropane (CONC>=30%)							T	
733	Dihydroperoxypropane, -2,2	E							
734	Diisobutyl Ketone		F						

Sr. No.	Name	E	F	O	R	C	Ra	T	G
735	<i>Diisobutyl Peroxide</i>						R		
736	<i>Di-isobutyl Peroxide</i>							T	
737	<i>Diisobutylene, Isomeric Compounds</i>				F				
738	<i>Di-isobutyryl Peroxide</i>							T	
739	<i>Diisoctyl Acid Phosphate</i>						C		
740	<i>Diisopropyl Ether</i>		F						
741	<i>Diisopropylamine</i>					R			
742	<i>Diketene, Stabilized</i>							T	
743	<i>Dimefox</i>		F			C			
744	<i>Dimethacarbonyl Chloride</i>							T	
745	<i>Dimethylcarbonyl Chloride</i>							T	
746	<i>Dimethoate</i>							T	
747	<i>Dimethyl Carbonate</i>		F					T	
748	<i>Dimethyl Dichlorosilane</i>							T	
749	<i>Dimethyl Disulphide</i>			F					
750	<i>Dimethyl Ether</i>								G
751	<i>Dimethyl Hydrazine</i>					C			
752	<i>Dimethyl Nitrosoamine</i>					C			
753	<i>Dimethyl P Phenylene Diarnine</i>							T	
754	<i>Dimethyl Phosphoramidi Cyanidic Acid (Tabum)</i>							T	
755	<i>Dimethyl Phosphoramidocyanidic Acid</i>							T	
756	<i>Dimethyl Phosphorochloridothioate</i>							T	
757	<i>Dimethyl Phthalate</i>							T	
758	<i>Dimethyl Sufolane (DMS)</i>							T	
759	<i>Dimethyl Sulphate</i>							T	
760	<i>Dimethyl Sulphide</i>		F						
761	<i>Dimethyl Thiophosphoryl Chloride</i>							T	
762	<i>Dimethylamine</i>							T	
763	<i>Dimethylamine Aqueous Solution</i>		F						

Sr. No.	Name	E	F	O	R	C	Ra	T	G
764	<i>Dimethylamine, Anhydrous</i>							T	
765	<i>Dimethylaniline</i>							T	
766	<i>Dimethylcarbamoyl Chloride</i>					C		T	
767	<i>Dimethylcarbomyl</i>							T	
768	<i>Dimethylcarbonyl Chloride</i>							T	
769	<i>Dimethylcyclohexanes</i>		F						
770	<i>Dimethylcyclohexylamine</i>					C			
771	<i>Dimethyldichlorosilane</i>		F						
772	<i>Dimethyldiethoxysilane</i>		F						
773	<i>Dimethyldioxanes</i>		F						
774	<i>Dimethyl Formamide</i>							T	
775	<i>Dimethylhydrazine, Symmetrical</i>							T	
776	<i>Dimethylhydrazine, Unsymmetrical</i>							T	
777	<i>Dimethylnitrosarnine</i>							T	
778	<i>Dimethyl-N-Propylamine</i>		F						
779	<i>Dimetilan</i>							T	
780	<i>Di-n-Amylamine</i>		F						
781	<i>Di-n-Butylamine</i>					C			
782	<i>Dinitro O-Cresol</i>							T	
783	<i>Dinitrobenzene</i>							T	
784	<i>Dinitrobenzenes, Liquid</i>							T	
785	<i>Dinitrobenzenes, Solid</i>							T	
786	<i>Dinitrogen Tetroxide (Nitrogen Dioxide)</i>								G
787	<i>Dinitro-O-Cresol</i>							T	
788	<i>Dinitrophenol</i>	E		O		C			
789	<i>Dinitrophenol Solution</i>							T	
790	<i>Dinitrophenol, Salts</i>	E						T	
791	<i>Dinitrophenol, Wetted</i>		F						
792	<i>Dinitrophenolates, Wetted</i>		F						

Sr. No.	Name	E	F	O	R	C	Ra	T	G
793	Dinitroresorcinol	<i>E</i>							
794	Dinitroresorcinol, Wetted		<i>F</i>						
795	Dinitrosobenzene	<i>E</i>							
796	Dinitrotoluene							<i>T</i>	
797	Dinitrotoluenes, Liquid/Solid							<i>T</i>	
798	Dinitrotoluenes, Molten	<i>E</i>						<i>T</i>	
799	Di- <i>N</i> -Propyl Ether		<i>F</i>						
800	Di- <i>n</i> -Propyl Peroxidicarbonate				<i>R</i>				
801	Di- <i>n</i> -Propyl Peroxydicarbonate (CONC=80%)				<i>R</i>				
802	Dioxane		<i>F</i>					<i>T</i>	
803	Dioxane- <i>P</i>							<i>T</i>	
804	Dioxathion							<i>T</i>	
805	Dioxine <i>N</i>							<i>T</i>	
806	Dioxolane		<i>F</i>						
807	Dipentene			<i>F</i>					
808	Diphacinone							<i>T</i>	
809	Diphenyl Methane Di-Isocynate (MDI)							<i>T</i>	
810	Diphenylamine Chloroarsine							<i>T</i>	
811	Diphenylchloroarsine, Liquid/Solid							<i>T</i>	
812	Diphenyldichlorosilane				<i>C</i>				
813	Diphenylmethyl Bromide				<i>C</i>				
814	Diphosphoramido Octamethyl							<i>T</i>	
815	Dipicryl Sulphide	<i>E</i>							
816	Dipicryl Sulphide, Wetted		<i>F</i>						
817	Dipropyl Ketone		<i>F</i>						
818	Dipropylamine		<i>F</i>						
819	Dipropylene Glycol Butyl Ether		<i>F</i>						
820	Dipropylene Glycolmethylether		<i>F</i>						
821	Dischlorophenoxy Acetic Acid		<i>F</i>						

Sr. No.	Name	E	F	O	R	C	Ra	T	G
822	<i>Discrotophos</i>		<i>F</i>						
823	<i>Di-sec-Butyl Peroxidicarbonate</i>					<i>R</i>			
824	<i>Diseic-Butyl Peroxydicarbonate (CONC>80%)</i>					<i>R</i>		<i>T</i>	
825	<i>Disinfectant, Liquid, Corrosive, N.O.S.</i>						<i>C</i>		
826	<i>Disinfectant, Liquid, Toxic, N.O.S.</i>							<i>T</i>	
827	<i>Disinfectant, Solid, Toxic, N.O.S.</i>							<i>T</i>	
828	<i>Disobutyl Peroxide</i>							<i>T</i>	
829	<i>Disodium Trioxosilicate</i>					<i>C</i>			
830	<i>Disulfoton</i>							<i>T</i>	
831	<i>Dithiazamine Iodide</i>							<i>T</i>	
832	<i>Dithiobiurate</i>							<i>T</i>	
833	<i>Dithydroperoxypropane, -2,2</i>							<i>T</i>	
834	<i>Divinyl Ether, Stabilized</i>							<i>T</i>	
835	<i>Dodecyltrichlorosilane</i>					<i>C</i>			
836	<i>Dry, Liquid, Corrosive, N.O.S. or Dye Intermediate Liquid, Corrosive, N.O.S.</i>					<i>C</i>			
837	<i>Dye, Solid, Corrosive, N.O.S. or Dye Intermediate, Solid, Corrosive, N.O.S.</i>					<i>C</i>			
838	<i>Dye, Solid, Toxic, N.O.S. or Dye Intermediate, Solid, Toxic, N.O.S.</i>							<i>T</i>	
839	<i>Ear Gas Substance, Liquid/Solid, N.O.S.</i>							<i>T</i>	
840	<i>Elevated Temperature Liquid, Flammable</i>		<i>F</i>						
841	<i>Epibromohydrin</i>							<i>T</i>	
842	<i>Epichlorohydrin</i>		<i>F</i>					<i>T</i>	
843	<i>EPN</i>							<i>T</i>	
844	<i>Epoxypropane, 1, 2</i>							<i>T</i>	
845	<i>Ergocalciferol</i>							<i>T.</i>	
846	<i>Ergotamine Tartarate</i>							<i>T</i>	
847	<i>Esters, N.O.S.</i>		<i>F</i>						
848	<i>Ethane</i>								<i>G</i>
849	<i>Ethane, Refrigerated Liquid</i>								<i>G</i>

Sr. No.	Name	E	F	O	R	C	Ra	T	G
850	<i>Ethanesulfenyl Chloride, 2 Chloro</i>								G
851	<i>Ethanol 1-2 Dichloracetate</i>							T	
852	<i>Ethanol or Ethanol Solution</i>			F					
853	<i>Ethanolamine or Ethanolamine Solution</i>					C			
854	<i>Ethers, N.O.S.</i>		F						
855	<i>Ethion</i>							T	
856	<i>Ethoprophos</i>							T	
857	<i>Ethyl2-Chloropropionate</i>		F						
858	<i>Ethyl Acetate</i>		F						
859	<i>Ethyl Acrylate, Stabilized</i>		F						
860	<i>Ethyl Alcohol</i>		F						
861	<i>Ethyl Amine</i>						T	G	
862	<i>Ethyl Amyl.Ketone</i>		F						
863	<i>Ethyl Benzene</i>						T	G	
864	<i>Ethyl Bis Amine</i>						T	G	
865	<i>Ethyl Borate</i>		F						
866	<i>Ethyl Bromide</i>						T		
867	<i>Ethyl Bromoacetate</i>						T		
868	<i>Ethyl Butyl Ether</i>		F						
869	<i>Ethyl Butyrate</i>		F						
870	<i>Ethyl Carbamate</i>						T		
871	<i>Ethyl Chloride</i>						T	G	
872	<i>Ethyl Chloroacetate</i>						T		
873	<i>Ethyl Chloroformate</i>						T		
874	<i>Ethyl Chlorothioformate</i>					C			
875	<i>Ethyl Crotonate</i>		F						
876	<i>Ethyl Ether</i>		F						
877	<i>Ethyl Fluoride (Refrigerant Gas R 161)</i>							G	
878	<i>Ethyl Isobutyrate</i>		F						

Sr. No.	Name	E	F	O	R	C	Ra	T	G
879	<i>Ethyl Isocyanate</i>		F						
880	<i>Ethyl Lactate</i>		F						
881	<i>Ethyl Mercaptan</i>		F					T	
882	<i>Ethyl Mercuric Phosphate</i>							T	
883	<i>Ethyl Methacrylate</i>		F						
884	<i>Ethyl Methyl Ether</i>								G
885	<i>Ethyl Methyl Ketone (Methyl Ethyl Ketone)</i>		F						
886	<i>Ethyl Nitrate</i>	E			R			T	
887	<i>Ethyl Orthoformate</i>		F						
888	<i>Ethyl Oxalate</i>							T	
889	<i>Ethyl Propionate</i>		F						
890	<i>Ethyl Propyl Ether</i>		F						
891	<i>Ethyl Thiocyanate</i>							T	
892	<i>Ethylacetylene, Stabilized</i>								G
893	<i>Ethylamine</i>								G
894	<i>Ethylamine, Aqueous Solution</i>		F						
895	<i>Ethylbenzene</i>		F						
896	<i>Ethyldichloroarsine</i>							T	
897	<i>Ethyldichlorosilane</i>		F						
898	<i>Ethylene</i>								G
899	<i>Ethylene Chlorohydrin</i>							T	
900	<i>Ethylene Chlorohydrine</i>							T	
901	<i>Ethylene Di Chloride</i>							T	
902	<i>Ethylene Diamine</i>		F		C				
903	<i>Ethylene Diamine Hydrochloride</i>							T	
904	<i>Ethylene Dibromide</i>							T	
905	<i>Ethylene Dibromide (1, 2-Dibromomethane)</i>							T	
906	<i>Ethylene Dichloride</i>		F						
907	<i>Ethylene Flourohydride</i>							T	

Sr. No.	Name	E	F	O	R	C	Ra	T	G
908	<i>Ethylene Glycol</i>							<i>T</i>	
909	<i>Ethylene Glycol Dinitrate</i>	<i>E</i>						<i>T</i>	
910	<i>Ethylene Glycol Monoethyl Ether</i>		<i>F</i>						
911	<i>Ethylene Glycol Monoethyl Ether Acetate</i>		<i>F</i>						
912	<i>Ethylene Glycol Monomethyl Ether</i>		<i>F</i>						
913	<i>Ethylene Glycol Diethyl Ether</i>		<i>F</i>						
914	<i>Ethylene Oxide</i>	<i>E</i>			<i>R</i>			<i>T</i>	
915	<i>Ethylene Oxide and Carbon Dioxide Mixture</i>								<i>G</i>
916	<i>Ethylene Oxide and Carbon Dioxide Mixture</i>								<i>G</i>
917	<i>Ethylene Oxide and Chlorotetrafluoroethane Mixture</i>								<i>G</i>
918	<i>Ethylene Oxide and Dichlorodifluoromethane Mixture</i>								<i>G</i>
919	<i>Ethylene Oxide and Pentrafluoroethane Mixture</i>								<i>G</i>
920	<i>Ethylene Oxide and Propylene Oxide Mixture</i>		<i>F</i>						
921	<i>Ethylene Oxide and Tetrafluoroethane Mixture</i>								<i>G</i>
922	<i>Ethylene Oxide or Tehylene Oxide with Nitrogen</i>								<i>G</i>
923	<i>Ethylene, Acetylene and Propylene Mixture, Refrigerated Liquid</i>								<i>G</i>
924	<i>Ethylene, Compressed</i>								<i>G</i>
925	<i>Ethylene, Refrigerated Liquid</i>								<i>G</i>
926	<i>Ethyleneamine</i>		<i>F</i>					<i>T</i>	
927	<i>Ethylenediamine</i>					<i>C</i>			
928	<i>Ethylphenyldichlorosilane</i>					<i>C</i>			
929	<i>Ethylthiocyanate</i>							<i>T</i>	
930	<i>Ethyltrichlorosilane</i>		<i>F</i>						
931	<i>Explosive, Blasting, Type E</i>	<i>E</i>							
932	<i>Explosive, Blasting, Type A</i>	<i>E</i>			<i>O</i>				
933	<i>Explosive, Blasting, Type B</i>	<i>E</i>				<i>C</i>	<i>Ra</i>		
934	<i>Ferric Arsenate</i>							<i>T</i>	
935	<i>Ferric Arsenite</i>							<i>T</i>	

Sr. No.	Name	E	F	O	R	C	Ra	T	G
936	<i>Ferric Chloride Solution</i>					C			
937	<i>Ferric Chloride, Anhydrous</i>					C			
938	<i>Ferric Nitrate</i>				O				
939	<i>Ferrous Arsenate</i>						T		
940	<i>Ferrous Metal Borings, Shavings, Turnings or Cuttings</i>		F						
941	<i>Fire Extinguisher Charges</i>					R		T	
942	<i>Firelighters, Solid</i>		F						
943	<i>Fireworks</i>	E							
944	<i>Flammable Liquid, Corrosive, N.O.S.</i>		F						
945	<i>Flammable Liquid, Corrosive, Organic, N.O.S.</i>						T		
946	<i>Flammable Liquid, Toxic, Corrosive, N.O.S.</i>		F						
947	<i>Flammable Solid, Corrosive, Inorganic, N.O.S.</i>		F						
948	<i>Flammable Solid, Corrosive, Organic, N.O.S.</i>		F						
949	<i>Flammable Solid, Inorganic, N.O.S. '</i>		F						
950	<i>Flammable Solid, Organic, N.O.S.</i>		F						
951	<i>Flammable Solid, Oxidizing, N.O.S.</i>		F						
952	<i>Flammable Solid, Toxic, Inorganic, N.O.S.</i>		F						
953	<i>Flammable Solid, Toxic, Organic, N.O.S.</i>		F						
954	<i>Fluenetil</i>						T		
955	<i>Fluoride</i>						T		
956	<i>Fluorine</i>						T		
957	<i>Fluorine, Compressed</i>							G	
958	<i>Fluoro 2-Hydroxy Butyric Acid Amid Salt Ester</i>						T		
959	<i>Fluoro, -4, -2-Hydroxybutyric Acid & Salts Esters, Amides</i>						T		
960	<i>Fluoroacetic Acid</i>						T		
961	<i>Fluoroanilines</i>						T		
962	<i>Fluorobenzene</i>	F							
963	<i>Fluoroboric Acid</i>					C			
964	<i>Fluorocobutyric Acid & Salts, Esters, Amides</i>						T		

Sr. No.	Name	E	F	O	R	C	Ra	T	G
965	<i>Fluorophosphoric Acid, Anhydrous</i>					C			
966	<i>Fluorosilic Acid</i>					C			
967	<i>Fluorosilicates, N.O.S.</i>							T	
968	<i>Fluorosulphonic Acid</i>					C			
969	<i>Fluorotoluenes</i>		F						
970	<i>Fluroacetic Acide and Salts, Esters and Amides</i>							T	
971	<i>Flurobutyric Acid, -4 and Salts, Esters and Amides</i>							T	
972	<i>Flurocrotonic Acid, -4 and Salts, Esters and Amides</i>							T	
973	<i>Fog-Signals</i>	E							
974	<i>Formaldehyde</i>							T	
975	<i>Formaldehyde Solution</i>					C			
976	<i>Formaledehyde Solution, Flammable</i>		F						
977	<i>Formatenate Hydrochloride</i>							T	
978	<i>Fuel, Aviation, Turbine Engine</i>		F						
979	<i>Fumaryl Chloride</i>					C			
980	<i>Furaldehydes</i>							T	
981	<i>Furan</i>		F						
982	<i>Furfural</i>							T	
983	<i>Furfuryl Alcohol</i>							T	
984	<i>Furfurylamine</i>		F						
985	<i>Fusel Oil</i>		F						
986	<i>Fuses</i>	E							
987	<i>Gallium</i>					C			
988	<i>Gallium Trichloride</i>							T	
989	<i>Gas Oil or Diesel Fuel or Heating Oil Light</i>		F						
990	<i>Gas, Refrigerated Liquid, Flammable, N.O.S.</i>							G	
991	<i>Gas, Refrigerated Liquid, N.O.S.</i>							G	
992	<i>Gas, Refrigerated Liquid, Oxidizing, N.O.S.</i>							G	
993	<i>Glycerol alpha-Monochlorohydrin</i>						T		

Sr. No.	Name	E	F	O	R	C	Ra	T	G
994	Glycidaldehyde		F						
995	Glyconitrile (Hydroxyacetonitrile)							T	
996	Guanidine Nitrate			O					
997	Guanyl Nitrosaminoguanylidene Hydrazine, Wetted	E							
998	Guanyl Nitrosaminoguanyltetrazene (Tetrazene) Wetted	E							
999	Guanyl, -1, -4 Nitrosaminogunyl-l-Tetrazene	E							
1000	Gun-Cotton	E							
1001	Gunpowder	E							
1002	Hafnium Power, Dry		F						
1003	Helium, Refrigerated Liquid								G
1004	Heptachlor	E					T		
1005	Heptafluoropropane (Refrigerant Gas R 227)								G
1006	Heptanes		F						
1007	Hexa Methyl Terta-Oxyacyclononate (CONC 75%)						T		
1008	Hexabutrodiphenylamine	E							
1009	Hexachloro Cyclopentadiene						T		
1010	Hexachloroacetone						T		
1011	Hexachlorobenzene						T		
1012	Hexachlorobutadiene						T		
1013	Hexachlorodibenzo-P-Dioxin,-1,2,3,7,8,9, Hexamethylphosphoramide						T		
1014	Hexachlorophene						T		
1015	Hexadecyltrichlorosilane					C			
1016	Hexadiene		F						
1017	Hexaethyl Tetraphosphate						T		
1018	Hexafluoropropylene								G
1019	Hexamethyl Phosphoroarmide						T		
1020	Hexamethyl, -3,3,6,6,9,9,-1,2,4, 5,-Tetroxacyclononane					R			
1021	Hexamethylene Diisocyanate							T	

Sr. No.	Name	E	F	O	R	C	Ra	T	G
1022	Hexamethylenediamine Solution					C			
1023	Hexamethylenediamine, Solid					C			
1024	Hexamethyleneimine			F					
1025	Hexamethylenetetramine			F					
1026	Hexamethylphosphoramide						T		
1027	Hexanes		F						
1028	Hexanitrostilbene	E							
1029	Hexanitrostilbene-2, 2, 4, 6, 6	E							
1030	Hexanols		F						
1031	Hexavalent Chromium						T		
1032	Hexene		F						
1033	Hexontal	E							
1034	Hexyltrichlorosilane					C			
1035	Hydrazine		F				T		
1036	Hydrazine Nitrate	E							
1037	Hydrazine, Anhydrous					C			
1038	Hydrazine, Aqueous Solution						T		
1039	Hydrazine, Hydrate or Hydrazine, Aqueous Solution					C			
1040	Hydriodic Acid					C			
1041	Hydrobromic Acid					C			
1042	Hydrocarbon Gas Mixture, Compressed, N.O.S.							G	
1043	Hydrocarbon Gas Mixture, Liquefied, N.O.S.							G	
1044	Hydrocarbons, Liquid, N.O.S.		F						
1045	Hydrochloric Acid					C			
1046	Hydrochloric Acid (Gas)						T		
1047	Hydrocyanic Acid, Aqueous Solution (Hydrogen Cyanide, Aqueous Solution)							T	
1048	Hydrofluoric Acid					C	T		
1049	Hydrofluoric Acid and Sulphuric Acid Mixture					C			
1050	Hydrogen		F		R				

Sr. No.	Name	E	F	O	R	C	Ra	T	G
1051	Hydrogen Bromide, Anhydrous								G
1052	Hydrogen and Methane Mixture, Compressed								G
1053	Hydrogen Bromide							T	
1054	Hydrogen Bromide (Hydrobromic Acid)					C		T	
1055	Hydrogen Chloride (Liquified Gas)					C		T	
1056	Hydrogen Chloride, Anhydrous								G
1057	Hydrogen Chloride, Refrigerated Liquid								G
1058	Hydrogen Cyanide							T	
1059	Hydrogen Cyanide, Solution in Alcohol							T	
1060	Hydrogen Cyanide, Stabilized							T	
1061	Hydrogen Fluoride					C		T	
1062	Hydrogen Fluoride, Anhydrous					C			
1063	Hydrogen Iodide, Anhydrous								G
1064	Hydrogen Peroxide			O					
1065	Hydrogen Peroxide and Peroxyacetic Acid Mixture			O					
1066	Hydrogen Peroxide, Adeous Solution			O					
1067	Hydrogen Peroxide, Aqueous Solution			O					
1068	Hydrogen Peroxide, Stabilized or Hydrogen Peroxide, Adeous Solution, Stabilized			O					
1069	Hydrogen Selenide							T	
1070	Hydrogen Selenide, Anhydrous								G
1071	Hydrogen Sulphide		F					T	G
1072	Hydrogen, Refrigerated Liquid								G
1073	Hydrogendifluorides, N.O.S.				C				
1074	Hydroquinone							T	
1075	Hydroxylamine Sulphate				C				
1076	Hypochlorite Solution				C				
1077	Hypochlorites, Inorganic, N.O.S.			O					
1078	Indene							T	
1079	Infectious Substance, Affecting Animals							T	

Sr. No.	Name	E	F	O	R	C	Ra	T	G
1080	<i>Infectious Substance, Affecting Humans</i>							T	
1081	<i>Insecticide Gas, Flammable, N.O.S.</i>								G
1082	<i>Insecticide Gas, N.O.S.</i>								G
1083	<i>Insecticide Gas, Toxic, Flammable, N.O.S.</i>								G
1084	<i>Insecticide Gas, Toxic, N.O.S.</i>								G
1085	<i>Iodine</i>							T	
1086	<i>Iodine Monochloride</i>						C		
1087	<i>Iodine Pentafluoride</i>					O			
1088	<i>Iodomethylpropanes</i>				F				
1089	<i>Iodopropanes</i>			F					
1090	<i>Iridium Tetrachloride</i>							T	
1091	<i>Iron Pentacarbonyl</i>							T	
1092	<i>Isobenzan</i>							T	
1093	<i>Isobutane</i>								G
1094	<i>Isobutanol (Isobutyl Alcohol)</i>		F						
1095	<i>Isobutyl Chloride</i>		F						
1096	<i>Isobutyl Acetate</i>		F						
1097	<i>Isobutyl Acrylate, Stabilized</i>		F						
1098	<i>Isobutyl Alcohol</i>							T	
1099	<i>Isobutyl Formate</i>		F						
1100	<i>Isobutyl Isobutyrate</i>		F						
1101	<i>Isobutyl Isocyanate</i>		F						
1102	<i>Isobutyl Methacrylate, Stabilized</i>		F						
1103	<i>Isobutyl Propane</i>		F						
1104	<i>Isobutylene</i>								G
1105	<i>Isobutyraldehyde (Isobutyl Aldehyde)</i>		F						
1106	<i>Isobutyric Acid</i>		F						
1107	<i>Isobutyro Nitrile</i>							T	
1108	<i>Isobutyro Nitrile</i>		F						

Sr. No.	Name	E	F	O	R	C	Ra	T	G
1109	<i>Isocyanates, Flammable, Toxic, N.O.S. or Isocyanate Solution, Flammable, Toxic, N.O.S.</i>		F						
1110	<i>Isocyanates, Toxic, Flammable, N.O.S. or Isocyanate Solution, Toxic, Flammable, N.O.S.</i>							T	
1111	<i>Isocyanates, Toxic, N.O.S. or Isocyanate Solution, Toxic, N.O.S.</i>							T	
1112	<i>Isocyanatobenzotrifluorides</i>							T	
1113	<i>Isocyanic Acid 3 4-Dichlorophenyl Ester</i>							T	
1114	<i>Isodrin</i>							T	
1115	<i>Isofluorophosphate</i>							T	
1116	<i>Isoheptene</i>			F					
1117	<i>Isohexene</i>		F						
1118	<i>Isooctene</i>		F						
1119	<i>Isopentenes</i>		F						
1120	<i>Isophorone Diisocyanate</i>							T	
1121	<i>Isophorone Disocyanate</i>							T	
1122	<i>Isophoronediamine</i>					C			
1123	<i>Isopropenyl Acetate</i>		F						
1124	<i>Isopropenyl Benzene</i>		F						
1125	<i>Isopropyl Formate</i>							T	
1126	<i>Isopropyl 2-Chloropropionate</i>		F						
1127	<i>Isopropyl Acetate</i>		F						
1128	<i>Isopropyl Acid Phosphate</i>					C			
1129	<i>Isopropyl Alcohol</i>			F					
1130	<i>Isopropyl Butyrate</i>		F						
1131	<i>Isopropyl Chloroacetate</i>		F						
1132	<i>Isopropyl Chlorocarbonate</i>					C			
1133	<i>Isopropyl Chloroformate</i>							T	
1134	<i>Isopropyl Ether</i>		F						
1135	<i>Isopropyl Isobutyrate</i>		F						
1136	<i>Isopropyl Isocyanate</i>		F						

Sr. No.	Name	E	F	O	R	C	Ra	T	G
1137	<i>Isopropyl Methyl Pyrazolyl Dimethyl Carbonate</i>							T	
1138	<i>Isopropyl Propionate</i>		F						
1139	<i>Isopropylarnine</i>		F			C			
1140	<i>Isopropylbenzene</i>		F						
1141	<i>Isoprpanle (Isopropyl Alcohol)</i>		F						
1142	<i>Isosorbide Dinitrate Mixture</i>		F						
1143	<i>Isosorbide-5-Mononitrate</i>		F						
1144	<i>Juglone (5-I-Hydroxynaphthalene-1,4-Dione)</i>							T	
1145	<i>Juglone (5-Hydroxy Napthalene-Dione)</i>							T	
1146	<i>Kerosene</i>		F						
1147	<i>Ketene</i>							T	
1148	<i>Ketones, Liquid, N.O.S.</i>		F						
1149	<i>Krypton, Refrigerated Liquid</i>								G
1150	<i>Lactonitrile</i>							T	
1151	<i>Lead (Inorganic Fumes & Dusts)</i>							T	
1152	<i>Lead 2,4, 6-Trinitroresorcinoxide (Lead Styphnate)</i>	E							
1153	<i>Lead Acetate</i>							T	
1154	<i>Lead Arsenates</i>							T	
1155	<i>Lead Arsenite</i>							T	
1156	<i>Lead Arsenites</i>							T	
1157	<i>Lead Azide</i>							T	
1158	<i>Lead Azide, Wetted</i>	E							
1159	<i>Lead Compound, Soluble, N.O.S.</i>							T	
1160	<i>Lead Cyanide</i>							T	
1161	<i>Lead Dioxide</i>			O					
1162	<i>Lead Nitrate</i>			O					
1163	<i>Lead Perchlorate</i>			O					
1164	<i>Lead Phosphite, Dibasic</i>		F						
1165	<i>Lead Styphnate (Lead Trinitroresorcinate), Wetted</i>	E							

Sr. No.	Name	E	F	O	R	C	Ra	T	G
1166	<i>Lead Sulphate</i>					C			
1167	<i>Lindane</i>							T	
1168	<i>Liquefied Gas, Flammable, N.O.S.</i>								G
1169	<i>Liquefied Gas, N.O.S.</i>								G
1170	<i>Liquefied Gas, Oxidizing, N.O.S.</i>								G
1171	<i>Liquefied Gas, Toxic, Flammable, N.O.S.</i>								G
1172	<i>Liquefied Gas, Toxic, N.O.S.</i>								G
1173	<i>Liquefied Petroleum Gas</i>			F					
1174	<i>Liquified Gas, Toxic, Corrosive, N.O.S.</i>								G
1175	<i>Liquefied Gas, Toxic, Flammable, Corrosive, N.O.S.</i>								G
1176	<i>Liquefied Gas, Toxic, Oxidizing, Corrosive, N.O.S.</i>								G
1177	<i>Liquefied Gas, Toxic, Oxidizing, N.O.S.</i>								G
1178	<i>Lithium</i>		F						
1179	<i>Lithium Alkyls</i>		F						
1180	<i>Lithium Aluminium Hydride</i>		F						
1181	<i>Lithium Aluminium Hydride, Ethereal</i>		F						
1182	<i>Lithium Borohydride</i>		F						
1183	<i>Lithium Ferrosilicon</i>		F						
1184	<i>Lithium Hydride</i>		F						
1185	<i>Lithium Hydride, Fused Solid</i>		F						
1186	<i>Lithium Hydroxide Monohydrate</i>					C			
1187	<i>Lithium Hydroxide Solution</i>					C			
1188	<i>Lithium Hypochlorite, Dry or Lithium Hypochlorite Mixture</i>				O				
1189	<i>Lithium Nitrate</i>				O				
1190	<i>Lithium Nitride</i>		F						
1191	<i>Lithium Peroxide</i>				O				
1192	<i>Lithium Silicon</i>		F						
1193	<i>London Purple</i>						T		
1194	<i>Magnesium Alkyls</i>		F						

Sr. No.	Name	E	F	O	R	C	Ra	T	G
1195	Magnesium Aluminium Phosphide		F						
1196	Magnesium Arsenate							T	
1197	Magnesium Bromate			O					
1198	Magnesium Chlorate			O					
1199	Magnesium Diamide		F						
1200	Magnesium Diphenyl		F						
1201	Magnesium Fluorosilicate							T	
1202	Magnesium Granules, Coated		F						
1203	Magnesium Hydride		F						
1204	Magnesium Nitrate			O					
1205	Magnesium or Magnesium Alloys		F						
1206	Magnesium Perchlorate			O					
1207	Magnesium Peroxide			O					
1208	Magnesium Phosphide		F						
1209	Magnesium Powder or Magnesium Alloys Powder		F						
1210	Magnesium Powder or Ribbon			O					
1211	Magnesium Silicide		F						
1212	Maleic Anhydride					C			
1213	Maleit Anhydride							T	
1214	Malononitrile							T	
1215	Malteil Anhydride							T	
1216	Manganese and Compounds							T	
1217	Maneb or Maneb Preparation		F						
1218	Maneb, Stabilized or Maneb Preparation, Stabilized		F						
1219	Manganese Nitrate			O					
1220	Manganese Resinate		F						
1221	Manganese Tricarbonyl Cyclopentadiene					C			
1222	Mannitol Hexanitrate (Nitromannite) Wetted	E							
1223	Matches, Fusee		F						

Sr. No.	Name	E	F	O	R	C	Ra	T	G
1224	Matches, Safety		F						
1225	Matches, Strike Anywhere		F						
1226	Matches, Was 'Vesta'			F					
1227	Mechlor Ethamine							T	
1228	Medicine, Liquid, Flammable, Toxic, N.O.S.		F						
1229	Medicine, Liquid, Toxic, N.O.S.							T	
1230	Medicine, Solid, Toxic, N.O.S.							T	
1231	Mephospholan							T	
1232	Mercaptans, Liquid, Flammable, N.O.S. or Mercaptan Mixture, Liquid, Flammable, N.O.S.		F						
1233	Mercaptans, Liquid, Flammable, Toxic, N.O.S. or Mercaptan Mixture		F						
1234	Mercaptans, Liquid, Toxic, Flammable, N.O.S. or Mercaptan, Mixture, Liquid, Toxic, Flammable, N.O.S.							T	
1235	Mercapto Benzothiazole							T	
1236	Mercuric Acetate							T	
1237	Mercuric Arsenate							T	
1238	Mercuric Chloride							T	
1239	Mercuric Nitrate							T	
1240	Mercuric Oxide							T	
1241	Mercuric Potassium Cyanide							T	
1242	Mercurous Nitrate							T	
1243	Mercury					C			
1244	Mercury Acetate							T	
1245	Mercury Alkyl			O				T	
1246	Mercury Ammonium Chloride							T	
1247	Mercury Based Pesticide, Liquid, Flammable, Toxic		F						
1248	Mercury Based Pesticide, Liquid, Toxic							T	
1249	Mercury Based Pesticide, Liquid, Toxic, Flammable							T	
1250	Mercury Based Pesticide, Solid, Toxic							T	
1251	Mercury Benzoate-							T	

Sr. No.	Name	E	F	O	R	C	Ra	T	G
1252	<i>Mercury Bromides</i>							T	
1253	<i>Mercury Compound, Liquid, N.O.S.</i>							T	
1254	<i>Mercury Compound, Solid, N.O.S.</i>							T	
1255	<i>Mercury Cyanide</i>							T	
1256	<i>Mercury Fulminate</i>	E							
1257	<i>Mercury Gluconate</i>							T	
1258	<i>Mercury Iodide</i>							T	
1259	<i>Mercury Methyl</i>							T	
1260	<i>Mercury Methyl Chloride</i>							T	
1261	<i>Mercury Nucleate</i>							T	
1262	<i>Mercury Oleate</i>							T	
1263	<i>Mercury Oxide</i>							T	
1264	<i>Mercury Oxycyanide, Desensitized</i>							T	
1265	<i>Mercury Potassium Iodide</i>							T	
1266	<i>Mercury Salicylate</i>							T	
1267	<i>Mercury Sulphate</i>							T	
1268	<i>Mercury Thiocyanate</i>							T	
1269	<i>Metal Alkyl Haldies, Water-Reactive, N.O.S. or Metal Aryl Haldies, Water-Reactive, N.O.S.</i>		F						
1270	<i>Metal Alkyl Hydrides, Water-Reactive, N.O.S. or Metal Aryl Hydrides, Water-Reactive, N.O.S.</i>		F						
1271	<i>Metal Alkyls, Water-Reactive, N.O.S. or Metal Aryls, Water-Reactive, N.O.S.</i>		F						
1272	<i>Metal Carbonyls, N.O.S.</i>							T	
1273	<i>Metal Catalyst, Dry</i>		F						
1274	<i>Metal Catalyst, Wetted</i>		F						
1275	<i>Metal Hydrides, Flammable, N.O.S.</i>		F						
1276	<i>Metal Hydrides, Water-Reactive, N.O.S.</i>		F						
1277	<i>Metal Powder, Flammable, N.O.S.</i>		F						
1278	<i>Metal Powder, Self-Heating, N.O.S.</i>		F						
1279	<i>Metal Salts of Organic Compounds, Flammable, N.O.S.</i>		F						

Sr. No.	Name	E	F	O	R	C	Ra	T	G
1280	Metaldehyde		F						
1281	Metallic Substance, Water-Reactive, N.O.S.		F						
1282	Methacrolein Diacetate			F					
1283	Methacrylaldehyde, Stabilized			F					
1284	Methacrylic Acid, Stabilized					C			
1285	Methcryflic Anhydride					C			
1286	Methacrylonitrile					C			
1287	Methacrylonitrile, Stabilized		F						
1288	Methacryloyl Chloride						T		
1289	Methacryloyl Oxyethyl Isocyanate						T		
1290	Methallyl Alcohol			F					
1291	Methamidophos						T		
1292	Methane							G	
1293	Methane, Compressed or Natural Gas, Compressed							G	
1294	Methane, Refrigerated Liquid or Natural Gas, Refrigerated Liquid							G	
1295	Methanesulphonyl Chloride						T		
1296	Methanesulphonyl Fluoride						T		
1297	Methanidophos						T		
1298	Methanol		F						
1299	Methanthiol						T		
1300	Methidathion						T		
1301	Methiocarb						T		
1302	Methonyl						T		
1303	Methoxy Ethanol						T		
1304	Methoxy Ethanol (2-Methyl Cellosolve)						T		
1305	Methoxyethyl Mercuric Acetate						T		
1306	Methoxymethyl Isocyanate		F						
1307	Methyarylol Chloride						T		
1308	Methyl 2-Chloroacrylate							T	

Sr. No.	Name	E	F	O	R	C	Ra	T	G
1309	Methyl 2-Chloropropionate		F						
1310	Methyl Acetate		F						
1311	Methyl Acrylate		F					T	
1312	Methyl Acrylate, Stabilized		F						
1313	Methyl Alcohol		F						
1314	Methyl Amine		F						
1315	Methyl Amylketone						C		
1316	Methyl Bromide								G;
1317	Methyl Bromide (Bromomethane)							T	
1318	Methyl Bromide and Ethylene Dibromide Mixture, Liquid							T	
1319	Methyl Bromoacetate		F						
1320	Methyl Butyrate		F						
1321	Methyl Chloride							T	G
1322	Methyl Chloride and Methylene Chloride Mixture								G
1323	Methyl Chloroacetate							T	
1324	Methyl Chloroform		F					T	
1325	Methyl Chloroformate							T	
1326	Methyl Chloromethyl Ether							T	
1327	Methyl Cyclohexane		F						
1328	Methyl Cyclohexene		F						
1329	Methyl Dichloroacetate							T	
1330	Methyl Disulphide							T	
1331	Methyl Ethyl Ketone Peroxide					R			
1332	Methyl Ethyl Ketone Peroxide (CONC. 60%)							T	
1333	Methyl Formate		F						
1334	Methyl Gluoride (Refrigerant Gas R 41)								G
1335	Methyl Hydrazine			O					
1336	Methyl Iodide							T	
1337	Methyl Isobutyl Carbinol		F						

Sr. No.	Name	E	F	O	R	C	Ra	T	G
1338	Methyl Isobutyl Ketone		F						
1339	Methyl Isobutyl Ketone Peroxide					R			
1340	Methyl Isocyanate			F				T	
1341	Methyl Isopropenyl Ketone, Stabilized			F					
1342	Methyl Isothiocyanate							T	
1343	Methyl Isovalerate		F						
1344	Methyl Magnesium Bromide in Ethyl Ether		F						
1345	Methyl Mercuric Dicyanamide							T	
1346	Methyl Mercaptan								G
1347	Methyl Methacrylate		F						
1348	Methyl Methacrylate Monomer, Stabilized		F						
1349	Methyl-N, 2, 4, 6, 6-Tetranitroaniline							T	
1350	Methyl Nitrite								G
1351	Methyl Orthosilicate							T	
1352	Methyl Parathion							T	
1353	Methyl Phencapton							T	
1354	Methyl Phoshonic Dichloride							T	
1355	Methyl Phosphonic Dichloride							T	
1356	Methyl Propionate		F						
1357	Methyl Propyl Ether		F						
1358	Methyl Propyl Ketone		F						
1359	Methyl Styrene		F					T	
1360	Methyl tert-Butyl Ether		F						
1361	Methyl Thiocyanate							T	
1362	Methyl Trichloroacetate							T	
1363	Methyl Trichlorosilane							T	
1364	Methyl Vinyl Ketone							T	
1365	Methyl Vinyl Ketone, Stabilized							T	
1366	Metylallyl Chloride		F						

Sr. No.	Name	E	F	O	R	C	Ra	T	G
1367	<i>Methylamine, Anhydrous</i>								G
1368	<i>Methylamyl Acetate</i>		F						
1369	<i>Methylchlorosilane</i>								G
1370	<i>Methylcyclohexane</i>		F						
1371	<i>Methylcylohexano,S</i>		F						
1372	<i>Methylcyclohexanone</i>		F						
1373	<i>Methylcyclopentane</i>		F						
1374	<i>Methyldichlorosilane</i>		F						
1375	<i>Methylene Bis (2-Chloroaniline)</i>							T	
1376	<i>Methylene Chloride</i>							T	
1377	<i>Methylenebis, -4,4,(2, -Chloroaniline)</i>							T	
1378	<i>Methylhydrazine</i>							T	
1379	<i>Methylisobutyl Ketone</i>							T	
1380	<i>Methylpentadiene</i>		F						
1381	<i>Methylphenyldichlorosilane</i>						C		
1382	<i>Methyl Tetrahydrofuran</i>		F						
1383	<i>Methyltrichlorosilane</i>		F						
1384	<i>Methyol Isodyanate</i>		F					T	
1385	<i>Mevinphos</i>							T	
1386	<i>Molybdenum and Compounds</i>							T	
1387	<i>Molybdenum Pentachloride</i>					C			
1388	<i>Molybdenum Powder</i>							T	
1389	<i>Monocrotophos</i>							T	
1390	<i>Morpholine</i>		F		C				
1391	<i>Motor Fuel Anti-Knock Mixture</i>							T	
1392	<i>Motor Spirit or Gasoline or Petrol</i>		F						
1393	<i>Mustard Gas</i>							T	
1394	<i>N, N-Diethylethylenediamine</i>					C			
1395	<i>N, N-Dimethylformamide</i>		F						

Sr. No.	Name	E	F	O	R	C	Ra	T	G
1396	<i>N, N-Dimethylaniline</i>							T	
1397	<i>N-Aminoethylpiperazine</i>						C		
1398	<i>Naphtha</i>	E	F						
1399	<i>Naphtha Solvent</i>	E	F						
1400	<i>Naphthalene, Crude or Naphthalene, Refined</i>		F						
1401	<i>Naphthalene, Molten</i>		F						
1402	<i>Naphthyl Amine</i>							T	
1403	<i>Naphthylurea</i>							T	
1404	<i>Naptha (Coal Tar)</i>		F						
1405	<i>Naphthalene</i>							T	
1406	<i>Naphthylamine,-2</i>							T	
1407	<i>N-Butyl Acetate</i>							T	
1408	<i>N-Butyl Alcohol</i>		F					T	
1409	<i>N-Butyl Chloroformate</i>							T	
1410	<i>N-Butyl Formate</i>		F						
1411	<i>N-Butyl Isocyanate</i>							T	
1412	<i>N-Butyl Methacrylate, Stabilized</i>		F						
1413	<i>N-Butylaniline</i>							T	
1414	<i>N-Butylimidazole</i>							T	
1415	<i>N-Decane</i>		F						
1416	<i>N-Diethylaniline</i>							T	
1417	<i>N-Dinitrobenzene</i>							T	
1418	<i>Neon, Refrigerated Liquid</i>								G
1419	<i>N-Ethylaniline</i>							T	
1420	<i>N-Ethylbenzyltoluidines, Liquid/Solid</i>							T	
1421	<i>N-Ethyl-N-Benzylaniline</i>							T	
1422	<i>N-Ethyltoluidines</i>							T	
1423	<i>N-Heptaldehyde</i>		F						
1424	<i>N-Heptene</i>		F						

Sr. No.	Name	E	F	O	R	C	Ra	T	G
1425	<i>N</i> -Hexane		F						
1426	<i>Nickel and Compounds</i>							T	
1427	<i>Nickel Carbonyl/Nickel Tetracarbonyl</i>							T	
1428	<i>Nickel Cyanide</i>							T	
1429	<i>Nickel Nitrate</i>			O					
1430	<i>Nickel Nitrite</i>			O					
1431	<i>Nickel Powder</i>							T	
1432	<i>Nickel Tetracarbonyl</i>		F					T	
1433	<i>Nicotine</i>							T	
1434	<i>Nicotine Compound, Liquid, N.O.S. or Nicotine Preparation, Liquid, N.O.S.</i>							T	
1435	<i>Nicotine Compound, Solid, N.O.S. or Nicotine Preparation, Solid, N.O.S.</i>							T	
1436	<i>Nicotine Hydrochloride, Liquid or Nicotine Hydrochloride Solution</i>							T	
1437	<i>Nicotine Hydrochloride, solid</i>							T	
1438	<i>Nicotine Salicylate</i>							T	
1439	<i>Nicotine Sulphate</i>							T	
1440	<i>Nicotine Sulphate, Solid</i>							T	
1441	<i>Nicotine Sulphate, Solution</i>							T	
1442	<i>Nicotine Tartrate</i>							T	
1443	<i>Niric Oxide, Compressed</i>								G
1444	<i>Nitrates, Inorganic, Aqueous Solution, N.O.S.</i>			O					
1445	<i>Nitrates, Inorganic, N.O.S.</i>			O					
1446	<i>Nitrating Acid Mixture</i>				C				
1447	<i>Nitrating Acid Mixture, Spent</i>				C				
1448	<i>Nitric Acid</i>				C				
1449	<i>Nitric Acid and Dinitrogen Tetraoxide Mixture (Nitric Oxide and Nitrogen Dioxide Mixture)</i>								G
1450	<i>Nitric Acid, Red Fuming</i>				C				
1451	<i>Nitric Oxide</i>							T	
1452	<i>Nitriles, Flammable, Toxic, N.O.S.</i>	F							

Sr. No.	Name	E	F	O	R	C	Ra	T	G
1453	<i>Nitriles, Toxic, Flammable, N.O.S.</i>							T	
1454	<i>Nitriles, Toxic, N.O.S.</i>							T	
1455	<i>Nitrites, Inorganic, Aqueous Solution, N.O.S.</i>			O					
1456	<i>Nitrites, Inorganic, N.O.S.</i>			O					
1457	<i>Nitro Urea</i>	E							
1458	<i>Nitroaniline-O</i>							T	
1459	<i>Nitroaniline-P</i>							T	
1460	<i>Nitroanilines</i>							T	G
1461	<i>Nitroanisoles, Liquid/Solid</i>							T	
1462	<i>Nitrobenzene</i>							T	
1463	<i>Nitrobenzenesulphonic Acid</i>					C			
1464	<i>Nitrobenzotrifluorides</i>							T	
1465	<i>Nitrobromobenzenes, Liquid</i>							T	
1466	<i>Nitrocellulose</i>	E							
1467	<i>Nitrocellulose Membrane Filters</i>		F						
1468	<i>Nitrocellulose Mixture with or without plasticizer, with or without pigment</i>		F						
1469	<i>Nitrocellulose Solution, Flammable</i>		F						
1470	<i>Nitrocellulose with Alcohol</i>		F						
1471	<i>Nitrocellulose with Water</i>		F						
1472	<i>Nitrocellulose (Dry)</i>	E							
1473	<i>Nitrochlorobenzene</i>							T	
1474	<i>Nitrochlorobenzene-P</i>							T	
1475	<i>Nitrocresols</i>							T	
1476	<i>Nitrocyclohexane</i>							T	
1477	<i>Nitroethane</i>		F					T	
1478	<i>Nitrogen</i>								G
1479	<i>Nitrogen Dioxide</i>							T	
1480	<i>Nitrogen Oxide</i>							T	G
1481	<i>Nitrogen Oxides</i>							T	

Sr. No.	Name	E	F	O	R	C	Ra	T	G
1482	<i>Nitrogen Trifluoride</i>							T	G
1483	<i>Nitrogen Trifluoride, Compressed</i>								G
1484	<i>Nitrogen Trioxide</i>								G
1485	<i>Nitrogen, Refrigerated Liquid</i>								G
1486	<i>Nitroglycerin Mixture, Desensitized Solid, N.O.S.</i>	F							
1487	<i>Nitroglycerin Mixture, Desensitized Liquid, Flammable, N.O.S.</i>	F							
1488	<i>Nitroglycerin Mixture, Desensitized, Liquid, N.O.S.</i>	F							
1489	<i>Nitroglycerin Solution in Alcohol</i>	E							
1490	<i>Nitroglycerin Solution in Alcohol</i>		F						
1491	<i>Nitroglycerin</i>	E						T	
1492	<i>Nitroguanidine (Picrite)</i>		F						
1493	<i>Nitroglycerin Solution in Alcohol</i>		F						
1494	<i>Nitrohydrochloric Acid</i>					C			
1495	<i>Nitromethane</i>		F						
1496	<i>Nitronaphthalene</i>		F						
1497	<i>Nitrophenol-P</i>							T	
1498	<i>Nitrophenols</i>							T	
1499	<i>Nitropropane-1</i>		F						
1500	<i>Nitropropane-2</i>		F						
1501	<i>Nitropropanes</i>		F						
1502	<i>Nitroso Dimethyl Amine</i>							T	
1503	<i>Nitrostarch</i>	E							
1504	<i>Nitrostarch, Wetted</i>		F						
1505	<i>Nitrosyl Chloride</i>								G
1506	<i>Nitrosylsulphuric Acid, Liquid/Solid</i>					C			
1507	<i>Nitrotoluene</i>							T	
1508	<i>Nitrotoluenes, Liquid</i>							T	
1509	<i>Nitrotoluidines (Mono)</i>							T	
1510	<i>Nitrous Oxide</i>								G

Sr. No.	Name	E	F	O	R	C	Ra	T	G
1511	Nitrous Oxide, Refrigerated Liquid								G
1512	Nitroxyles, Liquid							T	
1513	N-Methylaniline							T	
1514	N-Methylbutylamine		F						
1515	N-Methyl-N, 2, 4, 6-Tetranitroaniline	E							
1516	Nonanes		F						
1517	Nonyltrichlorosilane					C			
1518	n-Propanol (Propyl Alcohol, Normal)		F						
1519	n-Propyl Acetate		F						
1520	n-Propyl Chloroformate							T	
1521	n-Propyl Isocyanate							T	
1522	n-Propylnitrate		F						
1523	n-Propylbenzene		F						
1524	Octadecyltrichlorosilane					C			
1525	Octadiene		F						
1526	Octafluorobut (Refrigerant Gas R218)							G	
1527	Octafluorobut-2-Ene (Refrigerant Gas R 1318)							G	
1528	Octafluorocyclobutane (Refrigerant Gas RC 318)							G	
1529	Octanes		F						
1530	Octyl Aldehydes		F						
1531	Octyltrichlorosilane					C			
1532	o-Dichlorobenzene							T	
1533	Oleum					C			
1534	O-Nitro Toluene	E							
1535	OO Diethyl S Ethyl Suph. Methyl Phos							T	
1536	OO Diethyl S Ethylsulphinylmethylphosphorothioate							T	
1537	OO Diethyl S Ethylthiomethyl Phosphorothioate							T	
1538	OO-Diethyl S-Isopropylthiomethyl Phosphorothioate							T	
1539	Organic Peroxide Type B, Liquid			O					

Sr. No.	Name	E	F	O	R	C	Ra	T	G
1540	Organic Peroxide Type B, Liquid, Temperature Controlled			O					
1541	Organic Peroxide Type B, Solid			O					
1542	Organic Peroxide Type B, Solid, Temperature Controlled			O					
1543	Organic Peroxide Type C, Liquid			O					
1544	Organic Peroxide Type C, Liquid, Temperature Controlled			O					
1545	Organic Peroxide Type C, Solid			O					
1546	Organic Peroxide Type C, Solid, Temperature Controlled			O					
1547	Organic Peroxide Type D, Liquid			O					
1548	Organic Peroxide Type D, Liquid, Temperature Controlled			O					
1549	Organic Peroxide Type D, Solid			O					
1550	Organic Peroxide Type D, Solid, Temperature, Controlled			O					
1551	Organic Peroxide Type E, Liquid			O					
1552	Organic Peroxide Type E, Liquid, Temperature, Controlled			O					
1553	Organic Peroxide Type E, Solid			O					
1554	Organic Peroxide Type E, Solid, Temperature Controlled			O					
1555	Organic Peroxide Type F, Liquid			O					
1556	Organic Peroxide Type F, Liquid, Temperature Controlled			O					
1557	Organic Peroxide Type F, Solid			O					
1558	Organic Peroxide Type F, Solid, Temperature Controlled			O					
1559	Organic Pigments, Self-Heating		F						
1560	Organo Rhodium Complex							T	
1561	Organoarsenic Compound, N.O.S.							T	
1562	Organochlorine Pesticide, Liquid, Flammable, Toxic		F						
1563	Organochlorine Pesticide, Liquid, Toxic							T	
1564	Organochlorine Pesticide, Liquid, Toxic, Flammable							T	
1565	Organochlorine Pesticide, Solid, Toxic							T	

Sr. No.	Name	E	F	O	R	C	Ra	T	G
1566	Organometallic Compound or Compound Solution or Compound Dispersion, Water-Reactive, Flammable, N.O.S.		F						
1567	Organometallic Compound, Toxic, N.O.S.							T	
1568	Organophosphorus Compound, Toxic, Flammable, N.O.S.							T	
1569	Organophosphorus Compound, Toxic, N.O.S.							T	
1570	Organophosphorus pesticide Liquid, Flammable, Toxic		F						
1571	Organophosphorus Pesticide Solid, Toxic							T	
1572	Organophosphorus Pesticide Liquid, Toxic							T	
1573	Organophosphorus Pesticide, Liquid, Toxic, Flammable							T	
1574	Organotin Compound Liquid, N.O.S.							T	
1575	Organotin Compound, Solid, N.O.S.							T	
1576	Organotin Pesticide, Liquid, Flammable, Toxic		F						
1577	Organotin Pesticide, Liquid, Toxic							T	
1578	Organotin Pesticide, Liquid, Toxic, Flammable							T	
1579	Organotin Pesticide, Solid, Toxic							T	
1580	Orotic Acid							T	
1581	Osmium Tetroxide							T	
1582	O-Toludine							T	
1583	Oxetane, 3, 3-Bis (Chloromethyl)							T	
1584	Oxidiphenoxarsine							T	
1585	Oxidizing Liquid, Corrosive, N.O.S.			O					
1586	Oxidizing Liquid, N.O.S.			O					
1587	Oxidizing Liquid, Toxic, N.O.S. —			O					
1588	Oxidizing Solid, Corrosive, N.O.S.			O					
1589	Oxidizing Solid, Flammable, N.O.S.			O					
1590	Oxidizing Solid, N.O.S.			O					
1591	Oxidizing Solid, Self Heating,N.O.S.			O					
1592	Oxidizing Solid, Toxic, N.O.S.			O					

Sr. No.	Name	E	F	O	R	C	Ra	T	G
1593	<i>Oxidizing Solid, Water Reactive, N.O.S.</i>			O					
1594	<i>Oxvdisulfoton</i>							T	
1595	<i>Oxygen (Liquid)</i>			O					G
1596	<i>Oxygen Difluoride</i>							T	
1597	<i>Oxygen Difluoride, Compressed</i>								G
1598	<i>Oxygen Generator, Chemical</i>			O					
1599	<i>Oxygen (Liquid)</i>			O					
1600	<i>O-Xylene</i>		F			C			
1601	<i>Ozone</i>			O	R			T	
1602	<i>Paint or Paint Related Material</i>					C			
1603	<i>Paraffin</i>		F						
1604	<i>Paraformaldehyde</i>		F					T	
1605	<i>Paraoxon (Diethyl 4 Nitrophenyl Phosphate)</i>							T	
1606	<i>Paraquat Methosulphate</i>							T	
1607	<i>Parathion</i>							T	
1608	<i>Parathion Methyl</i>							T	
1609	<i>Paris Green</i>							T	
1610	<i>Paroxon (Diethyl 4-Nitrophenyl Phosphate)</i>							T	
1611	<i>Pensulfothion</i>							T	
1612	<i>Penta Borgne</i>	F						T	
1613	<i>Penta Chloro Ethane</i>							T	
1614	<i>Penta Chloro Phenol</i>							T	
1615	<i>Pentaborane</i>							T	
1616	<i>Pentabromodiphenyl Oxide</i>							T	
1617	<i>Pentabromophenol</i>							T	
1618	<i>Pentachloro Naphthalene</i>							T	
1619	<i>Pentachloro Napthalene</i>							T	
1620	<i>Pentachloroethane</i>							T	
1621	<i>Pentachlorophenol</i>							T	

Sr. No.	Name	E	F	O	R	C	Ra	T	G
1622	Pentadecyl-Amine					C			
1623	Pentaerythaiitol Tetranitrate							T	
1624	Pentaerythrite Tetranitrate (Pentaerythritol Tetranitrate; Petn) Wetted	E							
1625	Pentaerythrite Tetranitrate Mixture, Desensitized, Solid, N.O.S.		F						
1626	Pentaerythritol Tetranitrate	E						T	
1627	Pentafluoroethane (Refrigerant Gas R 125)								G
1628	Pentaghlorophenol							T	
1629	Pentamethylheptane		F						
1630	Pentane							T	
1631	Pentane-2,4-Dion		F						
1632	Pentanes, liquid		F						
1633	Pantanone, 2,4-Methyl							T	
1634	Peracetic Acid				R	C			
1635	Peradetic Acid							T	
1636	Perchlorates, Inorganic, Aqueous Solution, N.O.S.			O					
1637	Perchlorates, Inorganic, N.O.S.			O					
1638	Perchloric Acid					C			
1639	Perchloroethylene							T	
1640	Perchloromethyl Mercaptan							T	
1641	Perchloryl Fluoride								G
1642	Percussion Caps	E							
1643	Perfluoro (Ethyl Vinyl Ether)								G
1644	Perfluoro (Methyl Vinyl Ether)								G
1645	Permanganates, Inorganic, Aqueous Solution, N.O.S.			O					
1646	Permanganates, Inorganic, N.O.S.			O					
1647	Peroxides, Inorganic, N.O.S.			O					
1648	Peroxyacetic Acid							T	
1649	Persulphates, Inorganic, Aqueous Solution, N.O.S.			O					
1650	Persulphates, Inorganic, N.O.S.			O					

Sr. No.	Name	E	F	O	R	C	Ra	T	G
1651	Pesticide, Liquid, Toxic, Flammable, N.O.S.							T	
1652	Pesticide, Liquid, Toxic, Flammable, N.O.S.		F						
1653	Pesticide, Liquid, Toxic, N.O.S.							T	
1654	Pesticide, Solid, Toxic, N.O.S.							T	
1655	Petanone, 2, -4, -Methyl		F					T	
1656	Petroleum Crude Oil		F						
1657	Petroleum Gases, Liquefied								G
1658	Phenacyl Bromide							T	
1659	Phenetidines							T	
1660	Phenol							T	
1661	Phenol Solution							T	
1662	Phenol, Molten							T	
1663	Phenol, Solid							T	
1664	Phenol, 2, 2-Thiobis (4 Chloro 6 Methyl Phenol)							T	
1665	Phenol, 2, 2-Thiobis (4, 6-Dichloro)							T	
1666	Phenol, 3-(1-Metnol Ethyl)-Methyl carbonate							T	
1667	Phenolsulphonic Acid, Liquid					C			
1668	Phenoxyacetic Acid Deriavative Pesticide, Liquid, Flammable, Toxic		F						
1669	Phenoxyacetic Acid Deriavative Pesticide, Liquid, Toxic							T	
1670	Phenoxyacetic Acid Deriavative Pesticide, Liquid, Toxic, Flammable							T	
1671	Phenoxyacetic Acid Deriavative Pesticide, Solid, Toxic							T	
1672	Phenyl Chloroformate							T	
1673	Phenyl Glycidal Ether		F					T	
1674	Phenyl Hydrazine Hydrochloride							T	
1675	Phenyl Isocyanate							T	
1676	Phenyl Mercury Acetate							T	
1677	Phenyl Silatrane							T	
1678	Phenyl Thiourea							T	

Sr. No.	Name	E	F	O	R	C	Ra	T	G
1679	<i>Phenylacetonitrile, Liquid</i>							T	
1680	<i>Phenylacetyl Chloride</i>					C			
1681	<i>Phenylcarbylamine Chloride</i>							T	
1682	<i>Phenylene P-Diamine</i>							T	
1683	<i>Phenylenediamines</i>							T	
1684	<i>Phenylhydrazine</i>							T	
1685	<i>Phenylmercuric Acetate</i>							T	
1686	<i>Phenylmercuric Compound, N.O.S.</i>							T	
1687	<i>Phenylmercuric Hydroxide</i>							T	
1688	<i>Phenylmercuric Nitrate</i>							T	
1689	<i>Phenylmercury Acetate</i>							T	
1690	<i>Phenylphosphorus Dichloride</i>					C			
1691	<i>Phenylphosphorus Thiodichloride</i>					C			
1692	<i>Phenyl Trichlorosilane</i>					C			
1693	<i>Phorate</i>							T	
1694	<i>Phorothioc Acid, O0 Dimethyl S-(2-Methyl)</i>							T	
1695	<i>Phosacetim</i>							T	
1696	<i>Phosalone</i>							T	
1697	<i>Phosaoetin</i>							T	
1698	<i>Phosazetin</i>							T	
1699	<i>Phosfolan</i>							T	
1700	<i>Phosgene</i>								G
1701	<i>Phosgene (Carbonyl Chloride)</i>		F					T	
1702	<i>Phosmet</i>							T	
1703	<i>Phosphamidon</i>							T	
1704	<i>Phosphine</i>								G
1705	<i>Phosphine (Hydrogen Phosphide)</i>		F					T	
1706	<i>Phosphoric Acid</i>			O		C			
1707	<i>Phosphoric Acid & Esters</i>					C		T	

Sr. No.	Name	E	F	O	R	C	Ra	T	G
1708	<i>Phosphoric Acid Dimethyl (4-Methyl Thio) Phenyl</i>							T	
1709	<i>Phosphoric Acid, Bromoethyl Bromo (2, 2-Dimethylpropyl) Bromoethyl Ester</i>							T	
1710	<i>Phosphoric Acid, Liquid/Solid</i>					C			
1711	<i>Phosphorothioc Ethyl-Methyl Ester</i>					C			
1712	<i>Phosphorothioic Acid, Methyl-Ethyl Ester</i>					C			
1713	<i>Phosphorothioic Acid Methyl (Ester)</i>					C			
1714	<i>Phosphorous</i>		F						
1715	<i>Phosphorous Pentaoxide</i>		F	O					
1716	<i>Phosphorous and Compounds</i>		F				T		
1717	<i>Phosphorous Oxychloride</i>						T		
1718	<i>Phosphorous Penta Chloride</i>						T		
1719	<i>Phosphorous Trichloride</i>						T		
1720	<i>Phosphorus Acid</i>					C			
1721	<i>Phosphorus Heptasulphide</i>		F						
1722	<i>Phosphorus Oxybromide</i>					C			
1723	<i>Phosphorus Oxybromide, Molten</i>					C			
1724	<i>Phosphorus Oxychloride</i>					C			
1725	<i>Phosphorus Pentabromide</i>					C			
1726	<i>Phosphorus Pentachloride</i>					C			
1727	<i>Phosphorus Pentafluoride, Compressed</i>							G	
1728	<i>Phosphorus Pentasulphide</i>	F							
1729	<i>Phosphorus Pentaoxide</i>					C			
1730	<i>Phosphorus Sesquisulphide</i>		F						
1731	<i>Phosphorus Tribromide</i>					C			
1732	<i>Phosphorus Trichloride</i>							T	
1733	<i>Phosphorus Trioxide</i>					C			
1734	<i>Phosphorus Trisulphide</i>	F							
1735	<i>Phosphorus, Amorphous</i>		F						
1736	<i>Phosphorus, White or Yellow, Dry or Under Water or in Solution</i>		F						

Sr. No.	Name	E	F	O	R	C	Ra	T	G
1737	<i>Phosphorus, White, Molten</i>		<i>F</i>						
1738	<i>Phthalic Anhydride</i>					<i>C</i>		<i>T</i>	
1739	<i>Phylloquinone</i>							<i>T</i>	
1740	<i>Physostignine</i>							<i>T</i>	
1741	<i>Physostignine Salicylate (1:1)</i>							<i>T</i>	
1742	<i>Picolines</i>		<i>F</i>						
1743	<i>Picric Acid (2, 4, 6-Trinitrophenol)</i>	<i>E</i>						<i>T</i>	
1744	<i>Pine Oil</i>		<i>F</i>						
1745	<i>Piperazine</i>					<i>C</i>			
1746	<i>Piperidine</i>							<i>T</i>	
1747	<i>Piperidone</i>					<i>C</i>			
1748	<i>Plastics, Nitrocellulose-Based, Self-Heating, N.O.S.</i>		<i>F</i>						
1749	<i>Platinous Chloride</i>							<i>T</i>	
1750	<i>Platinum Tetrachloride</i>							<i>T</i>	
1751	<i>P-Nitrophenol</i>							<i>T</i>	
1752	<i>p-Nitrosodimethylaniline</i>		<i>F</i>						
1753	<i>Polybrominated Biphenyls</i>							<i>T</i>	
1754	<i>Polychlorinated Biphenyls</i>							<i>T</i>	
1755	<i>Polyester Resin Kit</i>		<i>F</i>						
1756	<i>Polyhalogenated Biphenyls, Liquid or Polyhalogenated Terphenyls, Liquid</i>							<i>T</i>	
1757	<i>Polymeric Beads, Expandable</i>		<i>F</i>						
1758	<i>Potassium</i>		<i>F</i>						
1759	<i>Potassium Nitride</i>					<i>C</i>			
1760	<i>Potassium Peroxide</i>		<i>F</i>		<i>C</i>				
1761	<i>Potassium Silver Cyanide</i>							<i>T</i>	
1762	<i>Potassium Arsenate</i>							<i>T</i>	
1763	<i>Potassium Arsenite</i>							<i>T</i>	
1764	<i>Potassium Bromate</i>			<i>O</i>					
1765	<i>Potassium Chlorate</i>			<i>O</i>					

Sr. No.	Name	E	F	O	R	C	Ra	T	G
1766	Potassium Chlorate, Aqueous Solution			O					
1767	Potassium Cuprocyanide							T	
1768	Potassium Cyanide							T	
1769	Potassium Dithionite (Potassium Hydrosulphite)		F						
1770	Potassium Fluoride							T	
1771	Potassium Fluoroacetate							T	
1772	Potassium Fluorosilicate							T	
1773	Potassium Hydrogen Sulphate					C			
1774	Potassium Hydrogendifluoride					C			
1775	Potassium Hydroxide					C			
1776	Potassium Hydroxide, Solid					C			
1777	Potassium Hydroxide, Solution					C			
1778	Potassium Metavanadate							T	
1779	Potassium Monoxide					C			
1780	Potassium Nitrate			O					
1781	Potassium Nitrate and Sodium Nitrite Mixture			O					
1782	Potassium Nitride			O	C				
1783	Potassium Nitrite			O					
1784	Potassium Perchlorate			O					
1785	Potassium Permanganate			O					
1786	Potassium Peroxide			O					
1787	Potassium Persulphate			O					
1788	Potassium Phosphide		F						
1789	Potassium Sulphide, Anhydrous or Potassium Sulphide		F						
1790	Potassium Sulphide, Hydrated					C			
1791	Potassium Superoxide			O					
1792	Potassium Arsenite							T	
1793	Powdered Metals and Mixtures							T	
1794	Promurit (1-(3,4-Dichlorophenyl)-3-Triazeneethiocarboxamide)							T	

Sr. No.	Name	E	F	O	R	C	Ra	T	G
1795	<i>Propadiene, Stabilized</i>								G
1796	<i>Propane</i>								G
1797	<i>Propanesultone-1, 3</i>							T	
1798	<i>Propanethiols</i>			F					
1799	<i>Propargyl Alcohol</i>							T	
1800	<i>Propargyl Bromide</i>							T	
1801	<i>Propen-1, -2-Chloro-1, 3, Diol-Diacetate</i>							T	
1802	<i>Propen-2-Chloro 1, 3-Dioi Diacetate</i>							T	
1803	<i>Prophyl Alcohol</i>		F						
1804	<i>Propylene Oxide</i>				R				
1805	<i>Propiolactone Beta</i>				R				
1806	<i>Propionic Acid</i>				C				
1807	<i>Propionic Anhydride</i>				C				
1808	<i>Propionitrile</i>	F						T	
1809	<i>Propionitrile, 3-Chloro</i>							T	
1810	<i>Propionyl Chloride</i>	F							
1811	<i>Propiophenone,4-Amino</i>							T	
1812	<i>Propyl Acetate-N</i>	F							
1813	<i>Propyl Chloride</i>	F							
1814	<i>Propyl Chloroformate</i>							T	
1815	<i>Propyl Formates</i>	F							
1816	<i>Propylamine</i>	F							
1817	<i>Propylene</i>								G
1818	<i>Propylene Chlorohydrin</i>							T	
1819	<i>Propylene Dichloride</i>							T	
1820	<i>Propylene Glycol, Allyether</i>							T	
1821	<i>Propylene Oxide</i>	F							
1822	<i>Propylene Tetramer</i>	F							
1823	<i>Propyleneamine</i>							T	

Sr. No.	Name	E	F	O	R	C	Ra	T	G
1824	<i>Propyleneimine, Stabilized</i>		F						
1825	<i>Propyltrichlorosilane</i>						C		
1826	<i>Potassium Borohydride</i>			F					
1827	<i>Puinone</i>							T	
1828	<i>Pyrazoxon</i>							T	
1829	<i>Pyrene</i>							T	
1830	<i>Pyrethroid Pesticide, Liquid, Flammable, Toxic</i>		F						
1831	<i>Pyrethroid Pesticide, Liquid, Toxic</i>							T	
1832	<i>Pyrethroid Pesticide, Liquid, Toxic, Flammable</i>							T	
1833	<i>Pyrethroid Pesticide, Solid, Toxic</i>							T	
1834	<i>Pyridine</i>		F					F	
1835	<i>Pyridine, 2-Methyl-3-Vinyl</i>							T	
1836	<i>Pyridine,4-Nitro, 1-Oxide</i>			O				T	
1837	<i>Pyriminil</i>							T	
1838	<i>Pyrophoric Liquid, Inorganic, N.O.S.</i>		F						
1839	<i>Pyrophoric Liquid, Organic, N.O.S.</i>		F						
1840	<i>Pyrophoric Metal, N.O.S. or Pyrophoric Alloy, N.O.S.</i>		F						
1841	<i>Pyrophoric Organometallic Compound, Water-Reactive, N.O.S., Liquid</i>		F						
1842	<i>Pyrophoric Solid, Inorganic, N.O.S.</i>		F						
1843	<i>Pyrophoric Solid, Organic, N.O.S.</i>		F						
1844	<i>Pyrosulphuryl Chloride</i>					C			
1845	<i>Pyrrolidine</i>							T	
1846	<i>Quinaliphos</i>							T	
1847	<i>Quinoline</i>							T	
1848	<i>Quinone</i>							T	
1849	<i>Radioactive Material, Uranium Hexafluoride</i>						Ra		
1850	<i>Radioactive Material, Uranium Hexafluoride, Fissile</i>						Ra		
1851	<i>Rare Gases and Nitrogen Mixture, Compressed</i>								G
1852	<i>Rare Gases and Oxygen Mixture, Compressed</i>								G

Sr. No.	Name	E	F	O	R	C	Ra	T	G
1853	<i>Rare gases Mixture, Compressed</i>								G
1854	<i>Receptacles, Small, Containing Gas (Gas Cartridges)</i>								G
1855	<i>Refrigerant Gas R 404A</i>								G
1856	<i>Refrigerant Gas R 407A</i>								G
1857	<i>Refrigerant Gas R 407B</i>								G
1858	<i>Refrigerant Gas R 407C</i>								G
1859	<i>Refrigerating Machines</i>								G
1860	<i>Resin Solution</i>		F						
1861	<i>Resorcinol</i>							T	
1862	<i>Rhodium Trichloride</i>							T	
1863	<i>Rockets</i>	E							
1864	<i>Rubidium Hydroxide</i>					C			
1865	<i>Rubidium Hydroxide Solution</i>					C			
1866	<i>Salcomine</i>						T		
1867	<i>Sarin</i>						T		
1868	<i>Seed Cake</i>		F						
1869	<i>Selenates or Selenites</i>						T		
1870	<i>Selenic Acid</i>					C			
1871	<i>Selenious Acid</i>						T		
1872	<i>Selenium Compound, N.O.S.</i>						T		
1873	<i>Selenium Disulphide</i>						T		
1874	<i>Selenium Hexafluoride</i>						T	G	
1875	<i>Selenium Oxychloride</i>					C			
1876	<i>Self-Heating Liquid, Corrosive Inorganic, N.O.S.</i>		F						
1877	<i>Self-Heating Liquid, Corrosive, Organic, N.O.S.</i>		F						
1878	<i>Self-Heating Liquid, Inorganic, N.O.S.</i>		F						
1879	<i>Self-Heating Liquid, Organic, N.O.S.</i>		F						
1880	<i>Self-Heating Liquid, Toxic, Inorganic, N.O.S.</i>		F						
1881	<i>Self-Heating Liquid, Toxic, Organic, N.O.S.</i>		F						

Sr. No.	Name	E	F	O	R	C	Ra	T	G
1882	<i>Self-Heating Solid, Corrosive, Organic, N.O.S.</i>		F						
1883	<i>Self-Heating Solid, Corrosive, Inorganic, N.O.S.</i>		F						
1884	<i>Self-Heating Solid, Inorgarc, N.O.S.</i>		F						
1885	<i>Self-Heating Solid, Organic, N.O.S.</i>		F						
1886	<i>Self-Heating Solid, Oxidizing, N.O.S.</i>		F						
1887	<i>Self -Heating Solid, Toxic, Inorganic, N.O.S.</i>		F						
1888	<i>Self -Heating Solid, Toxic, Organic, N.O.S.</i>		F						
1889	<i>Self -Reactive Liquid Type B</i>		F						
1890	<i>Self-Reactive Liquid Type B, Temperature Controlled</i>		F						
1891	<i>Self-Reactive Liquid Type C</i>		F						
1892	<i>Self-Reactive Liquid. Type C, Temperature Controlled</i>		F						
1893	<i>Self -Reactive Liquid Type D</i>		F						
1894	<i>Self-Reactive Liquid Type D, Temperature Controlled</i>		F						
1895	<i>Self-Reactive Liquid Type E</i>		F						
1896	<i>Self-Reactive Liquid Type E, Temperature Controlled</i>		F						
1897	<i>Self-Reactive Liquid Type F</i>		F						
1898	<i>Self-Reactive Liquid Type F, Temperature Controlled</i>		F						
1899	<i>Self-Reactive Solid Type B</i>		F						
1900	<i>Self-Reactive Solid Type B, Temperature Controlled</i>		F						
1901	<i>Self-Reactive Solid Type C</i>		F						
1902	<i>Self-Reactive Solid Type C, Temperature Controlled</i>		F						
1903	<i>Self-Reactive Solid Type D</i>		F						
1904	<i>Self-Reactive Solid Type D, Temperature Controlled</i>		F						
1905	<i>Self-Reactive Solid Type E</i>		F						
1906	<i>Self-Reactive Solid Type E, Temperature Controlled</i>		F						
1907	<i>Self-Reactive Solid Type F</i>		F						

Sr. No.	Name	E	F	O	R	C	Ra	T	G
1908	<i>Self-Reactive Solid Type F, Temperature Controlled</i>		F						
1909	<i>Semicarbazide Hydrochloride</i>							T	
1910	<i>Silane (4-Amino Butyl) Diethoxy-Meth</i>							T	
1911	<i>Silane, Compressed</i>								G
1912	<i>Silicon Tetrachloride</i>					C			
1913	<i>Silicon Tetrafluoride, Compressed</i>								G
1914	<i>Silver Arsenite</i>							T	
1915	<i>Silver Cyanide</i>							T	
1916	<i>Silver Nitrate</i>			O					
1917	<i>Silver Picrate, Wetted</i>		F						
1918	<i>Sludge Acid</i>					C			
1919	<i>Soda Lime</i>					C			
1920	<i>Sodium</i>		F						
1921	<i>Sodium Hydrosulphide</i>					C			
1922	<i>Sodium Acetoxy Triphenyl</i>							T	
1923	<i>Sodium Aluminate Solution</i>					C			
1924	<i>Sodium Aluminate, Solid</i>					C			
1925	<i>Sodium Aluminium Hydride</i>		F						
1926	<i>Sodium Ammonium Vanadate</i>							T	
1927	<i>Sodium Anthra-Quinone-I-Sulphonate</i>							T	
1928.	<i>Sodium Arsanilate</i>							T	
1929	<i>Sodium Arsenate</i>							T	
1930	<i>Sodium Arsenite</i>							T	
1931	<i>Sodium Arsenite, Aqueous Solution</i>							T-	
1932	<i>Sodium Arsenite, Solid</i>							T	
1933	<i>Sodium Azide</i>							T	
1934	<i>Sodium Borohydride and Sodium Hydroxide Solution</i>					C			
1935	<i>Sodium Bromate</i>			O					
1936	<i>Sodium Cacodylate</i>							T	

Sr. No.	Name	E	F	O	R	C	Ra	T	G
1937	<i>Sodium Chlorate</i>	<i>E</i>		<i>O</i>	<i>R</i>				
1938	<i>Sodium Chlorate, Aqueous Solution</i>			<i>O</i>					
1939	<i>Sodium Chlorite</i>			<i>O</i>					
1940	<i>Sodium Chloroacetate</i>							<i>T</i>	
1941	<i>Sodium Cuprocyanide, Solid</i>							<i>T</i>	
1942	<i>Sodium Cuprocyanide, Solution</i>							<i>T</i>	
1943	<i>Sodium Cyanide</i>							<i>T</i>	
1944	<i>Sodium Dinitro-O-Cresolate</i>	<i>E</i>							
1945	<i>Sodium Dinitro-O-Cresolate Wetted</i>		<i>F</i>						
1946	<i>Sodium Dithionite (Sodium Hydrosulphite)</i>		<i>F</i>						
1947	<i>Sodium Fluoride</i>							<i>T</i>	
1948	<i>Sodium Fluoroacetate</i>							<i>T</i>	
1949	<i>Sodium Fluoro-Acetate</i>							<i>T</i>	
1950	<i>Sodium Fluorosilicate</i>							<i>T</i>	
1951	<i>Sodium Hydride</i>		<i>F</i>						
1952	<i>Sodium Hydrogendifluoride</i>					<i>C</i>			
1953	<i>Sodium Hydrosulphide</i>		<i>F</i>						
1954	<i>Sodium Hydroxide</i>					<i>C</i>			
1955	<i>Sodium Hydroxide, Solution</i>					<i>C</i>			
1956	<i>Sodium Hydroxide, Solid</i>					<i>C</i>			
1957	<i>Sodium Methylate</i>		<i>F</i>					<i>T</i>	
1958	<i>Sodium Monoxide</i>					<i>C</i>			
1959	<i>Sodium Nitrate</i>			<i>O</i>				<i>T</i>	
1960	<i>Sodium Nitrate and Potassium Nitrate Mixture</i>			<i>O</i>					
1961	<i>Sodium Nitrite</i>			<i>O</i>					
1962	<i>Sodium Pentachlorophenate</i>							<i>T</i>	
1963	<i>Sodium Pentachloro-Phenate</i>							<i>T</i>	
1964	<i>Sodium Perchlorate</i>			<i>O</i>					
1965	<i>Sodium Permanganate</i>			<i>O</i>					

Sr. No.	Name	E	F	O	R	C	Ra	T	G
1966	<i>Sodium Peroxide</i>			O					
1967	<i>Sodium Peroxoborate, Anhydrous</i>			O					
1968	<i>Sodium Persulphate</i>			O					
1969	<i>Sodium Phosphide</i>		F						
1970	<i>Sodium Picramate</i>	E						T	
1971	<i>Sodium Picramate, Wetted</i>		F						
1972	<i>Sodium Selenate</i>							T	
1973	<i>Sodium Selenite</i>							T	
1974	<i>Sodium Sulphide</i>			O	C				
1975	<i>Sodium Sulphide, Anhydrous or Sodium Sulphide</i>	F							
1976	<i>Sodium Sulphide, Hydrated</i>				C				
1977	<i>Sodium Superoxide</i>			O					
1978	<i>Sodium Tellorite</i>				C				
1979	<i>Sodiumanthra-Qunone-I-Sulphonate</i>				C				
1980	<i>Solids containing Corrosive Liquid, N.O.S.</i>				C				
1981	<i>Solids containing Flammable Liquid, N.O.S.</i>	F							
1982	<i>Solids containing Toxic Liquid, N.O.S.</i>							T	
1983	<i>Sopropyl</i>							T	
1984	<i>Stannane Acetoxy Triphenyl</i>							T	
1985	<i>Stannic Chloride Pentahydrate</i>				C				
1986	<i>Stannic Chloride, Anhydrous</i>				C				
1987	<i>Stannic Phosphides</i>		F						
1988	<i>Stibine</i>							G	
1989	<i>Stibine (Antimony Hydride)</i>							T	
1990	<i>Strontium Arsenite</i>							T	
1991	<i>Strontium Chlorate</i>			O					
1992	<i>Strontium Nitrate</i>			O					
1993	<i>Strontium Perchlorate</i>			O					
1994	<i>Strontium Peroxide</i>			O					

Sr. No.	Name	E	F	O	R	C	Ra	T	G
1995	<i>Strontium Phosphide</i>		F						
1996	<i>Strychnine or Strychnine Salts</i>							T	
1997	<i>Strychnine Sulphate</i>							T	
1998	<i>Styphnic Acid (2,4, 6-Trinitroresorcinol)</i>							T	
1999	<i>Styrene</i>		F						
2000	<i>Styrene Monomer, Stabilized</i>		F						
2001	<i>Styrene, 1, 1, 2, 2-Tetrachloroethane</i>		F					T	
2002	<i>Substituted Nitrophenol Pesticide, Liquid, Flammable</i>		F						
2003	<i>Substituted Nitrophenol Pesticide, Liquid, Toxic</i>							T	
2004	<i>Substituted Nitrophenol Pesticide, Liquid, Toxic, Flammable</i>							T	
2005	<i>Substituted Nitrophenol Pesticide, Solid, Toxic</i>							T	
2006	<i>Sulfotep</i>							T	
2007	<i>Sulotep</i>							T	
2008	<i>Sulphamic Acid</i>					C			
2009	<i>Sulphotec</i>					C			
2010	<i>Sulphoxide, 3-Chloropropyl Octyl</i>							T	
2011	<i>Sulphur Chlorides</i>					C			
2012	<i>Sulphur Dichloride</i>							T	
2013	<i>Sulphur Dioxide</i>							T	G
2014	<i>Sulphur Hexafluoride</i>								G
2015	<i>Sulphur Monochloride</i>							T	
2016	<i>Sulphur Tetrafluoride</i>								G
2017	<i>Sulphur Trioxide</i>					C			
2018	<i>Sulphur Trioxide, Stabilized</i>					C			
2019	<i>Sulphur, Molten</i>		F						
2020	<i>Sulphuric Acid</i>					C			
2021	<i>Sulphuric Acid or Battery Fluid, Acid</i>					C			
2022	<i>Sulphuric Acid, Fuming</i>					C			
2023	<i>Sulphuric Acid, Spent</i>					C			

Sr. No.	Name	E	F	O	R	C	Ra	T	G
2024	<i>Sulphurous Acid</i>					C			
2025	<i>Sulphuryl Chloride</i>					C			
2026	<i>Sulphuryl Fluoride</i>								G
2027	<i>Suphuric Acid</i>					C	T		
2028	<i>Tars, Liquid</i>		F						
2029	<i>T-Chloro 1, 2,2,2-</i>								G
2030	<i>Tear Gas Candles</i>						T		
2031	<i>Tellurium Compound, N.O.S.</i>						T		
2032	<i>Tellurium Hexafluoride</i>						T	G	
2033	<i>Tellurium Hexafluoride</i>						T		
2034	<i>Tellurium (Powder)</i>						T		
2035	<i>Tepp (Tetraethyl Pyrophosphate)</i>						T		
2036	<i>Terbufos</i>						T		
2037	<i>Terpene Hydrocarbons, N.O.S.</i>		F						
2038	<i>Terpinolene</i>		F						
2039	<i>Tert Buty Peroxyiso-Butyrate</i>						T		
2040	<i>Tert Butyl Peroxy Carbonate</i>						T		
2041	<i>Tert Butyl Peroxy Isopropyl</i>						T		
2042	<i>Tert Butyl Peroxyacetate (Conc>-70%)</i>						T		
2043	<i>Tert-Butyl Alcohol</i>						T		
2044	<i>Tert-Butyl Anate</i>						T		
2045	<i>Tert-Butyl Hypochlorite</i>		F						
2046	<i>Tert-Butylcyclohexyl Chloroformate</i>						T		
2047	<i>Tetra Hydrofuran</i>		F						
2048	<i>Tetra Methyl Lead</i>						T		
2049	<i>Tetra Nitromethane</i>						T		
2050	<i>Tetrabromobisphenol-A</i>						T		
2051	<i>Tetrabromoethane</i>						T		
2052	<i>Tetrachloro 2,2, 5, 6, 2, 5-Cyclohexadiene-1, 4-Dion</i>						T		

Sr. No.	Name	E	F	O	R	C	Ra	T	G
2053	<i>Tetrachlorodibenzo-P-Dioxin, -2,3,7,8 (TCDD)</i>							T	
2054	<i>Tetrachloroethane</i>							T	
2055	<i>Tetrachloroethylene</i>							T	
2056	<i>Tetractyle Lead</i>							T	
2057	<i>Tetraethyl Dithiopyrophosphate</i>							T	
2058	<i>Tetraethyl Lead</i>							T	
2059	<i>Tetraethyl Silicate</i>		F						
2060	<i>Tetraethylenepentamine</i>					C			
2061	<i>Tetrafluoroethane</i>							T	
2062	<i>Tetrafluoroethylene, Stabilized</i>								G
2063	<i>Tetrafluoromethane Compressed (Refrigerant Gas R 14, Compressed)</i>								G
2064	<i>Tetrafluriethyne</i>							T	
2065	<i>Tetrahydrofuran</i>		F					T	
2066	<i>Tetrahydrofurfurylamine</i>		F						
2067	<i>Tetrahydronphthalic Anhydrides</i>					C			
2068	<i>Tetrahydrothiophene</i>		F						
2069	<i>Tetramethyl Lead</i>							T	
2070	<i>Tetramethylammonium Hydroxide</i>					C			
2071	<i>Tetramethylene Disulphotetramine</i>							T	
2072	<i>Tetramethylsilane</i>		F						
2073	<i>Tetranitroaniline</i>	E							
2074	<i>Tetranitromethane</i>			O				T	
2075	<i>Tetrapropyl Orthotitanate</i>		F						
2076	<i>Tetrazol-1-Acetic Acid</i>	E							
2077	<i>Thallium and Compounds</i>							T	
2078	<i>Thallium Carbonate</i>							T	
2079	<i>Thallium Chlorate</i>			O					
2080	<i>Thallium Compound, N.O.S.</i>							T	
2081	<i>Thallium Nitrate</i>							T	

Sr. No.	Name	E	F	O	R	C	Ra	T	G
2082	<i>Thallic Oxide</i>							T	
2083	<i>Thallium Sulphate</i>							T	
2084	<i>Thallous Chloride</i>							T	
2085	<i>Thallous Malonate</i>							T	
2086	<i>Thallous Sulphate</i>							T	
2087	<i>Thinoyl Chloride</i>							T	
2088	<i>Thioacetic Acid</i>		F						
2089	<i>Thioactic Acid</i>							T	
2090	<i>Thiocarbamate Pesticide, Liquid, Flammable Toxic</i>		F						
2091	<i>Thiocarbamate Pesticide, Liquid, Toxic</i>							T	
2092	<i>Thiocarbamate Pesticide, Liquid, Toxic, Flammable</i>							T	
2093	<i>Thiocarbamate Pesticide, Solid, Toxic</i>							T	
2094	<i>Thiocarbazide</i>							T	
2095	<i>Thiocynamic acid, 2-(Benzothiazolyethio) Methyl</i>							T	
2096	<i>Thiomox</i>							T	
2097	<i>Thioglycol</i>							T	
2098	<i>Thioglycolic Acid</i>					C			
2099	<i>Thiometon</i>							T	
2100	<i>Thionazin</i>							T	
2101	<i>Thionyl Chloride</i>					C			
2102	<i>Thiophene</i>		F						
2103	<i>Thiophenol</i>							T	
2104	<i>Thiophosgene</i>							T	
2105	<i>Thiophosphoryl Chloride</i>					C			
2106	<i>Thiosemicarbazide</i>							T	
2107	<i>Thiourea (2-Methyl Phenyl)</i>					C			
2108	<i>Thiourea Dioxide</i>		F						
2109	<i>Thiourea (2-Chloro-Phenyl)</i>					C			
2110	<i>Thiourea (2-Methyl-1-3-Dithiolane)</i>					C			

Sr. No.	Name	E	F	O	R	C	Ra	T	G
2111	<i>Thiram</i>							<i>T</i>	
2112	<i>Tirplate</i>							<i>T</i>	
2113	<i>Tirplate(2,4-Dimethyl-1-3-Dithiolane)</i>							<i>T</i>	
2114	<i>Titanium Disulphide</i>		<i>F</i>						
2115	<i>Titanium Hydride</i>		<i>F</i>						
2116	<i>Titanium Powder</i>							<i>T</i>	
2117	<i>Titanium Powder, Dry</i>		<i>F</i>						
2118	<i>Titanium Sponge Granules or Titanium Sponge Powders</i>	<i>F</i>							
2119	<i>Titanium Tetrachloride</i>					<i>C</i>			
2120	<i>Titanium Tetra-Chloride</i>							<i>T</i>	
2121	<i>Titanium Trichloride, Pyrophoric or Titanium Trichloride Mixture,Pyrophoric</i>	<i>F</i>							
2122	<i>Titanium Trichlorode Mixture</i>					<i>C</i>			
2123	<i>Toluene</i>	<i>F</i>						<i>T</i>	
2124	<i>Toluene 2, 6-Diisocyanate</i>							<i>T</i>	
2125	<i>Toluene 2, 4-Diisocyanate</i>							<i>T</i>	
2126	<i>Toluene Diisocyanate</i>							<i>T</i>	
2127	<i>Toluene-2, -4-Ditsocynate</i>							<i>T</i>	
2128	<i>Toluene-2-4-Diisocyanate</i>							<i>T</i>	
2129	<i>Toluidine-O</i>							<i>T</i>	
2130	<i>Toluidines,Liquid/Solid</i>							<i>T</i>	
2131	<i>Toxic Liquid, Corrosive, Inorganic, N.O.S.</i>							<i>T</i>	
2132	<i>Toxic Liquid, Flammable, Organic, N.O.S.</i>							<i>T</i>	
2133	<i>Toxic Liquid, Inorganic, N.O.S.</i>							<i>T</i>	
2134	<i>Toxic Liquid, Organic, N.O.S.</i>							<i>T</i>	
2135	<i>Toxic Liquid, Oxidizing, N.O.S.</i>							<i>T</i>	
2136	<i>Toxic Liquid, Water-Reactive, N.O.S.</i>							<i>T</i>	
2137	<i>Toxic Solid, Corrosive, Inorganic, N.O.S.</i>							<i>T</i>	
2138	<i>Toxic Solid, Corrosive, Organic, N.O.S.</i>							<i>T</i>	
2139	<i>Toxic Solid, Flammable, Organic, N.O.S.</i>							<i>T</i>	

Sr. No.	Name	E	F	O	R	C	Ra	T	G
2140	Toxic Solid, Inorganic, N.O.S.							T	
2141	Toxic Solid, Organic, N.O.S.							T	
2142	Toxic Solid, Oxidizing, N.O.S.							T	
2143	Toxic Solid, Self-Heating, N.O.S.							T	
2144	Toxic Solid, Water Reactive, N.O.S.							T	
2145	Toxins, Extracted From Living Sources, Liquid/Solid N.O.S.							T	
2146	Trans-1, 4-Di Chloro-Butene							T	
2147	Tri Nitro Anisole							T	
2148	Tri Orthocresyl Phosphate							T	
2149	Tri (Cyclohexyl) Methylstannyl 1, 2,4 Triazole							T	
2150	Tri-I (cyclohexyl) Stanny-1-H-1, 2, 4-Triazole							T	
2151	Triallyl Borate							T	
2152	Triallylamine		F						
2153	Triamino, -1, 3, 5, 2, 4, 6-Trinitro-Benzene	E						T	
2154	Triaminotrinitrobenzene							T	
2155	Triazine Pesticide, Liquid, Flammable, Toxic		F						
2156	Triazine Pesticide, Liquid, Toxic							T	
2157	Triazine Pesticide, Liquid, Toxic, Flammable							T	
2158	Triazine Pesticide, Solid, Toxic							T	
2159	Tribromophenol 2,4,6							T	
2160	Tributylamine							T	
2161	Tributylphosphane		F						
2162	Trichloro (Chloromethyl) Silane							T	
2163	Trichloro Acetyl Chloride							T	
2164	Trichloro Chloromethyl Silane							T	
2165	Trichloro Ethane							T	
2166	Trichloro Napthalene							T	
2167	Trichloroacetic Acid					C			
2168	Trichloroacetic Acid Solution					C			

Sr. No.	Name	E	F	O	R	C	Ra	T	G
2169	Trichloroacetyl Chloride					C			
2170	Trichlorobenzenes, Liquid							T	
2171	Trichlorobutene							T	
2172	Trichlorodethylene							T	
2173	Trichlorodichlorophenylsilane							T	
2174	Trichloroethane, 1, 1,-1							T	
2175	Trichloroethyl Silane							T	
2176	Trichloroethylene							T	
2177	Trichloroisocy Anuric Acid, Dry					O			
2178	Trichloromethane Sulphenyl Chloride							T	
2179	Trichloronate							T	
2180	Trichlorophenol 2,3,6							T	
2181	Trichlorophenol 2, 4, 5							T	
2182	Trichlorophenol 2,2,6							T	
2183	Trichlorophenol, 2,4,5							T	
2184	Trichlorophenyl Silane							T	
2185	Trichlorophon							T	
2186	Trichlorosilane		F						
2187	Tricresyl Phosphate			O				T	
2188	Triethoxy Silane							T	
2189	Triethyl Phosphite		F						
2190	Triethylamine		F		C				
2191	Triethylene Melamine							T	
2192	Triethylenetetramine					C			
2193	Trifluoroacetic Acid					C			
2194	Trifluoroacetyl Chloride							G	
2195	Trifluoromethane (Refrigerant Gas R 23)							G	
2196	Trifluoromethane, Refrigerated Liquid							G	
2197	Trisobutylene		F						

Sr. No.	Name	E	F	O	R	C	Ra	T	G
2198	<i>Trimethyl Borate</i>		F						
2199	<i>Trirnethyl Chlorosilane</i>							T	
2200	<i>Trimethyl Phosphite</i>			F					
2201	<i>Trimethyl Propane Phosphite</i>							T	
2202	<i>Trimethyl Tin Chloride</i>							T	
2203	<i>Trimethylacetyl Chloride</i>							T	
2204	<i>Trimethylarnine, Anhydrous</i>								G
2205	<i>Trimethylamine, Aqueous</i>		F						
2206	<i>Trimethylchlorosilane</i>		F						
2207	<i>Trimethylcyclohexylamine</i>				C				
2208	<i>Trimethylhexamethylene Diisocyanate</i>							T	
2209	<i>Trimethylhexarnethylene-Diamines</i>			C					
2210	<i>Trimethylpropane Phosphite</i>							T	
2211	<i>Trinitro Aniline</i>	E						T	
2212	<i>Trinitro Benzene.</i>	E							
2213	<i>Trinitro Benzoic Acid</i>			C					
2214	<i>Trinitro-in-cresol</i>			C					
2215	<i>Trinitro Phenetole</i>			C					
2216	<i>Trinitroaniline</i>							T	
2217	<i>Trinitroaniline (Picramide)</i>	E							
2218	<i>Trinitroanisole, -2,4,6</i>	E						T	
2219	<i>Trinitroanisole</i>	E							
2220	<i>Trinitroanisole, 2, 2, 4, 6</i>							T	
2221	<i>Trinitrobenzene</i>	E						T	
2222	<i>Trinitrobenzene, Wetted</i>		F						
2223	<i>Trinitrobenzenesulphonic Acid</i>	E							
2224	<i>Trinitrobenzoic Acid</i>	E						T	
2225	<i>Trinitrobenzoic Acid, Wetted</i>		F						
2226	<i>Trinitrochlorobenzene (Picryl Chloride)</i>	E							

Sr. No.	Name	E	F	O	R	C	Ra	T	G
2227	<i>Trinitrochlorobenzene (Picryl Chloride)</i>	<i>E</i>							
2228	<i>Trinitrocresol</i>	<i>E</i>						<i>T</i>	
2229	<i>Trinitroesorenol, 2, 4, 6 (Styphnic Acid)</i>							<i>T</i>	
2230	<i>Trinitrofluorenone</i>	<i>E</i>							
2231	<i>Trinitro-M-Cresol</i>	<i>E</i>							
2232	<i>Trinitronaphthalene</i>	<i>E</i>							
2233	<i>Trinitrophenetole</i>	<i>E</i>							
2234	<i>Trinitrophenetole, 2,4,6</i>	<i>E</i>						<i>T</i>	
2235	<i>Trinitrophenol, Wetted</i>			<i>F</i>					
2236	<i>Trinitrophenylmethylnitramine (Tetryl)</i>	<i>E</i>							
2237	<i>Trinitroresorcinol (Styphnic Acid)</i>	<i>E</i>							
2238	<i>Trinitrosorcinol, -2,4,6 (Styphnic Acid)</i>	<i>E</i>						<i>T</i>	
2239	<i>Trinitrotoluene</i>	<i>E</i>							
2240	<i>Trinitrotoluene (TNT)</i>	<i>E</i>							
2241	<i>Trinitrotoluene, Wetted</i>			<i>F</i>					
2242	<i>Triorthocresyl Phosphate</i>							<i>T</i>	
2243	<i>Triplate (2,4-Dimethyl-1, 3-Dithiolance)</i>							<i>T</i>	
2244	<i>Triphenyl Tin Chloride</i>							<i>T</i>	
2245	<i>Tripropylarnine</i>		<i>F</i>						
2246	<i>Tripropylene</i>		<i>F</i>						
2247	<i>Tris (1-Aziridinyl) Phosphine Oxide Solution</i>							<i>T</i>	
2248	<i>Tris (2-Chloroethyl) Amine</i>							<i>T</i>	
2249	<i>Trisopropyl Borate</i>		<i>F</i>						
2250	<i>Tungsten Hexafluoride</i>								<i>G</i>
2251	<i>Turpentine</i>		<i>F</i>						
2252	<i>Uranium and Compounds</i>							<i>T</i>	
2253	<i>Urea Hydrogen Peroxide</i>				<i>O</i>				
2254	<i>Urea Nitrate</i>	<i>E</i>							
2255	<i>Urea Nitrate, Wetted</i>		<i>F</i>						

Sr. No.	Name	E	F	O	R	C	Ra	T	G
2256	<i>Valeraldehyde</i>		<i>F</i>						
2257	<i>Valeryl Chloride</i>						<i>C</i>		
2258	<i>Valino Mycin</i>							<i>T</i>	
2259	<i>Vanadium and Compounds</i>							<i>T</i>	
2260	<i>Vanadium Compound, N.O.S.</i>							<i>T</i>	
2261	<i>Vanadium Oxytrichloride</i>					<i>C</i>			
2262	<i>Vanadium Pentaoxide</i>							<i>T</i>	
2263	<i>Vanadium Pentoxide</i>							<i>T</i>	
2264	<i>Vanadium Tetrachloride</i>					<i>C</i>			
2265	<i>Vanadium Trichloride</i>					<i>C</i>			
2266	<i>Vanadyl Sulphate</i>							<i>T</i>	
2267	<i>Vinyl Acetate Monomer</i>							<i>T</i>	
2268	<i>Vinyl Bromide</i>							<i>T</i>	
2269	<i>Vinyl Bromide, Stabilized</i>								<i>G</i>
2270	<i>Vinyl Butyrate, Stabilized</i>		<i>F</i>						
2271	<i>Vinyl Chloride</i>	<i>E</i>						<i>T</i>	
2272	<i>Vinyl Chloride, Stabilized</i>								<i>G</i>
2273	<i>Vinyl Chloroacetate</i>							<i>T</i>	
2274	<i>Vinyl Fluoride</i>							<i>T</i>	
2275	<i>Vinyl Isobutyl Ether, Stabilized</i>		<i>F</i>						
2276	<i>Vinyl Methyl Ether, Stabilized</i>								<i>G</i>
2277	<i>Vinyl Norbornene</i>							<i>T</i>	
2278	<i>Vinyl Toluene</i>	<i>E</i>						<i>T</i>	
2279	<i>Vinylcyclohexen Dioxide</i>							<i>T</i>	
2280	<i>VinyledeneChloride</i>							<i>T</i>	
2281	<i>Vinylidene Chloride, Stabilized</i>		<i>F</i>						
2282	<i>Vinylpyridines, Stabilized</i>							<i>T</i>	
2283	<i>Vinyltoluenes, Stabilized</i>		<i>F</i>						
2284	<i>Vinyltrichlorosilane, Stabilized</i>		<i>F</i>						

Sr. No.	Name	E	F	O	R	C	Ra	T	G
2285	Vutyl Amine Tert							T	
2286	Warfarin							T	
2287	Warfarin Sodium							T	
2288	Water-Reactive Liquid, N.O.S.	E	F	O	R	C		T	
2289	Water-Reactive Solid, N.O.S.	E	F	O	R	C		T	
2290	White Asbestos							T	
2291	Xanthates		F						
2292	Xenon, Compressed								G
2293	Xenon, Refrigerated Liquid								G
2294	Xylene		F					T	
2295	Xylene Dichloride							T	
2296	Xylenes		F						
2297	Xylenols							T	
2298	Xylidine							T	
2299	Xylidines,Liquid/Solid							T	
2300	Xylyl Bromide							T	
2301	Zinc Ammonium Nitrite			O					
2302	Zinc and Compounds							T	
2303	Zinc Arsenate, Zinc Arsenite or Zinc Arsenate And Zinc Arsenite Mixture							T	
2304	Zinc Bromate			O					
2305	Zinc Chlorate			O					
2306	Zinc Chloride Solution					C			
2307	Zinc Cyanide							T	
2308	Zinc Dichloropentanitrile							T	
2309	Zinc Dithionite (Zinc Hydrosulphite)							T	
2310	Zinc Fluorosilicate							T	
2311	Zinc Phosphide		F						
2312	Zinc Resinate			F					
2313	Zirconium and Compounds			F					

Sr. No.	Name	E	F	O	R	C	Ra	T	G
2314	Zirconium Nitrate			O					
2315	Zirconium Picramate		E						
2316	Zirconium Powder, Dry			F					
2317	Zirconium Scrap			F					
2318	Zirconium Tetrachloride					C			
2319	Zirconium, Dry		F					T]	

CHAPTER VI

Control Of Traffic

138. Signals and additional safety measures for ¹[motor vehicle]. -

(1) The driver of a ¹[motor vehicle] shall make such signals and on such occasions as are specified in the regulations made under section 118.

(2) The driver of a motor cycle shall, in addition to the safety measures mentioned in sub-section (1) of section 128, comply with the requirements of rule 123.

²[³[(3) In a motor vehicle, in which seat-belts have been provided under sub-rule (1) or sub-rule (1-A) of rule 125 or rule 125-A, as the case may be, it shall be ensured that the driver, and the person seated in the front seat or the persons occupying front facing rear seats, as the case may be, wear the seat belts while the vehicle is in motion.]

(4) On and after expiry of one year from the date of commencement of the Central Motor Vehicles (Amendment) Rules, 1999, the driver of every vehicle shall ensure that the following items are carried in the vehicle, namely:—

^{3a} [(a) in case of vehicles other than motor cycles, a spare wheel ready for use:

^{3b}[Provided that in case of L7, M1 and N1 categories of vehicles, use of temporary use spare wheel shall be permitted and the provision of ready to use spare wheel shall not be mandatory, if such vehicles are fitted with run flat tyres as standard]]

(b) tool kit as prescribed by the manufacturer;

(c) triangles of size 150 mm with a red reflecting surface as per IS:8339-1993 specified by the Bureau of Indian Standards, for keeping in front and rear of the vehicle in case the vehicle is stranded on the road (applicable to vehicles other than two and three-wheelers); as specified below, namely:—

¹. Substituted by G.S.R. 214(E), dated 18-3-1999, for "motor cycle" (w.e.f. 18-3-1999).

². Inserted by G.S.R. 214(E), dated 18-3-1999 (w.e.f. 18-3-1999).

³. Sub-R. (3) Substituted by G.S.R. 699(E), dated 10-10-2002 (w.e.f. 10-10-2002).

^{3a}. Substituted by G.S.R. 291(E), dated 24-4-2014 (w.e.f. 24-4-2014).

^{3b}. Substituted by G.S.R. 518(E), dated 01-06-2018 (w.e.f. 01-06-2018).

- one triangle in case of four-wheelers with GVW not exceeding 7.5 tons;
- two triangles in case of four-wheelers with GVW exceeding 7.5 tons:

⁴[Provided that in case of vehicles manufactured on and after 1st January, 2003, the triangles of size and specification shall conform to AIS:022-2001, as may be amended from time to time, till such time as corresponding Bureau of Indian Standards specifications are notified:]

⁵[Provided further that in addition, ^{5a}[M3] and category of vehicles shall also be required to install retro-reflective triangle complying to AIS:022:2001 as amended from time to time, excluding the requirements specified in clauses 7.2,7.3,7.4,7.7, 8.1.2 and 5.0,6.0,11.0 of Annexure 4 of the said standard. The colour of the triangle fitted in the front of the vehicle shall be white and that of rear shall be red. The location of both the triangles shall be at least one meter above the ground level at the front and rear, preferably at the centre of the vehicle. For the purposes of "white colour warning triangle", the word "red" shall be substituted by word "white", wherever applicable in AIS:022:2001. The colour requirements of white retro-reflective portion shall be as per clause 8.5 of AIS:057 and white fluorescent material shall be as per clause 7.1 of ISO:7591-82(E);]

(d) first-aid kit containing a tube of antiseptic cream containing 0.5% of ^{5ab}[**a tube of Feracrylum of 1% gel**], sterilised dressings, sterilised elastic plaster, waterproof plaster, gauze and elastic bandage for wounds and burns,

(e) number of chock blocks for four-wheelers as specified below, namely:— one chock block in case of four-wheelers with GVW exceeding 4 tons and less than 7.5 tons; two chock blocks in case of 4-wheelers with GVW exceeding 7.5 tons;

The vehicle manufacturer shall ensure that the above items are supplied at the time of first sale of vehicle;

⁶[(f) at the time of purchase of the two wheeler, the manufacturer of the two wheeler shall supply a protective headgear conforming to specifications prescribed by the Bureau of Indian Standards under the Bureau of Indian Standards Act, 1986 (63 of 1986): Provided that these conditions shall

⁴. Inserted by G.S.R. 400(E), dated 31-5-2002 (w.e.f. 31-5-2002).

⁵. Proviso inserted by G.S.R. 589(E), dated 16-9-2005 (w.e.f. 16-3-2006).

^{5a}. Substituted by G.S.R. 784(E), dated 12-11-2008 (w.e.f. 1-4-2009).

^{5ab} Substituted by G.S.R. 934(E), dated 18-12-2019, for "Centrimide B.P. in a non-greasy base " (w.e.f. 1-4-2020).

⁶. CI. (f) inserted by G.S.R. 589(E), dated 16-9-2005 (w.e.f. 16-3-2006)

not apply to category of persons exempted in terms of section 129 and the rules made thereunder by the concerned State Government.]

(5) Halogen bulbs with P45t cap shall not be used for headlights on all vehicles. Wattage of halogen bulbs shall not exceed 70/75 watts for 24 volts and 60/65 for 12 volts systems.]

^{6a}[(6) On and after 1st April 2016, the driver of motor vehicle of M1 category, manufactured on and later 1st October 2014, excluding transport vehicles and special purpose vehicles shall ensure that a child up to age of twelve years, carried in the vehicle is seated in an appropriate child restraint system conforming to AIS: 072-2009.]

^{6b}[**138-A. Fitment of Radio Frequency Identification Tag.**— Fitment of FASTag.— Categories M and N motor vehicles sold on and after the 1st December, 2017, shall be fitted with FASTag as may be specified by the Central Government, from time to time, by the manufacturer of the vehicle or its authorised dealer, as the case may be:

Provided that in case of any vehicle which is sold in the form of drive-away-chassis without windscreen, FASTag shall be fitted on the windscreen by the vehicle owner before the registration of such vehicles.

Explanation. – For the purposes of this rule, FASTag means an onboard unit (transponder) or any such device fitted on the front windscreen of the vehicle.”.]

6c[138 B. All goods carriage vehicles shall carry goods in a closed body of the vehicle or container:

Provided that if it is necessary to carry goods in open bodies, goods shall be covered by using appropriate cover like tarpaulin or any other suitable material:

Provided further that the goods of indivisible nature, not capable of being carried in a closed body or being covered as per the first proviso, may be carried without cover.]

^{6a}. Substituted by G.S.R. 291(E), dated 24-4-2014 (w.e.f. 24-4-2014).

^{6b}. Inserted by G.S.R.1361(E), dated 02-11-2017 (w.e.f. 02-11-2017).

^{6c}. Inserted by G.S.R.1081(E), dated 02-11-2018 (w.e.f. 02-11-2018).

[139. Production of licence and certificate of registration.]—The driver or conductor of a motor vehicle shall produce ⁸[in physical or electronic form] certificate of registration, insurance, fitness, ⁸[certificate for Pollution Under Check] and permit, the driving licence and any other relevant documents on demand by any police officer in uniform or any other officer authorized by the State Government in this behalf, and if any or all of the documents are not in his possession, he shall produce in person an extract or extracts of the documents duly attested by any police officer or by any other officer or send it to the officer who demanded the documents by registered post within 15 days from the date of demand.]

⁷. Substituted by G.S.R. 76(E), dated 31-1-2000 (w.e.f. 31-1-2000). Earlier R. 138 was substituted by G.S.R. 684(E), dated 5-10-1999 (w.e.f. 22-10-1999).

⁸ Inserted by G.S.R.1081(E), dated 02-11-2018 (w.e.f. 02-11-2018)

CHAPTER VII

Insurance Of Motor Vehicles Against Third Party Risks

140. Definitions.—In this Chapter, unless the context otherwise requires,—

(i) "**accounting year**" means the year commencing on the first day of April, and ending with the 31 st day of March of the following year;

(ii) "**approved list**" means the list of foreign insurers and their guarantors maintained by the Central Government under these rules;

(iii) "**Authority**" means the Central Government or a State Government or any local authority or any State Transport Undertaking, motor vehicles owned by whom have been exempted from the compulsory insurance under sub-section (2) of section 146;

(iv) "**bank**" means a company which accepts, for the purpose of lending or investment, deposits of money from the public repayable on demand or otherwise, and withdrawal by cheque, draft, order or otherwise;

Explanation.—Any company which is engaged in the manufacture of goods or carries onany trade and which accepts deposits of money from the public merely for the purpose of financing its business as such manufacturer or trader shall not be deemed to be a bank within the meaning of this clause;

(v) "**certificate of foreign insurance**" means a certificate issued by a foreign insurer in Form 57 in compliance with these rules;

(vi) "**foreign insurer**" means a person or firm carrying on the business of insurance incorporated or domiciled outside India and not registered under the Insurance Act, 1938 (4 of 1938);

(vii) "**fund**" means the fund established under rule 151;

(viii) "**Government security**" means a Government security as defined in the Public Debt Act, 1944 (18 of 1944);

(ix) "**guarantor**" means an insurer who has guaranteed a foreign insurer in pursuance of these rules, and "guarantee", "guaranteed" and "guaranteeing" have corresponding meanings;

(x) "**visitor**" means a person bringing a motor vehicle into India and making only a temporary stay therein not extending to a continuous period of more than one year.

Inland insurance

141. Certificate of insurance.—An authorised insurer shall issue to every holder of a policy of insurance, a certificate of insurance in Form 51 in respect of each such vehicle.

142. Cover notes.—(1) Every cover note issued by an authorised insurer shall be in Form 52.

(2) A cover note referred to in sub-rule (1) shall be valid for a period of sixty-days from the date of its issue and the insurer shall issue a policy of insurance before the date of expiry of the cover note.

143. Issue of certificates and cover notes.— Every certificate of insurance or covernote issued by an insurer in compliance with the provisions of this Chapter shall be duly authenticated by such person as may be authorized by the insurer.

144. Transfer of certificate of insurance.—When the ownership of a motor vehicle covered by a valid insurance certificate is transferred to another person together with the policy of insurance relating thereto the policy of insurance of such vehicle shall automatically stand transferred to that other person from the date of transfer of ownership of the vehicle and the said person shall within fourteen days of the date of transfer intimate to the authorized insurer who has insured the vehicle, the details of the registration of the vehicle, the date of transfer of the vehicle, the previous owner of the vehicle and the number and date of the insurance policy so that the authorized insurer may make the necessary changes in his record.

145. Exclusion of advertising matter.—No certificate of the insurance or cover note issued in pursuance of Chapter XI of the Act and of this Chapter shall contain any advertising matter either on the face or on the back thereof.

146. Certificates or cover notes lost, destroyed, torn, soiled, defaced or mutilated.—

(1) Where the holder of a policy—

(a) lodges with an authorised insurer a declaration in which he declares that a certificate of insurance or cover note issued to him by such insurer has been lost, destroyed, torn, soiled, defaced or mutilated and sets out full particulars of the circumstances connected with the loss or destruction of the certificate or cover note and the efforts made to find it; or

(b) returns to the authorised insurer the certificate of insurance or cover note issued to him by such insurer in a torn, soiled, defaced or mutilated condition; and

(c) pays to the insurer a fee of rupees twenty in respect of each such certificate or cover note, the authorised insurer shall, if satisfied that such certificate or cover note has been lost or destroyed and that all reasonable efforts have been made to find it, or that it has been destroyed or is soiled, defaced or mutilated, as the case may be, issue in lieu thereof a duplicate certificate of insurance or cover note with the word "Duplicate" prominently endorsed to the effect.

(2) When a duplicate certificate or cover note has been issued in accordance with the provisions of sub-rule (1) on representation that a certificate or cover note has been lost, and the original certificate or cover note is afterwards found by the holder, the original certificate or cover note, as the case may be, shall be surrendered to the insurer.

147. Records to be maintained by authorised insurers.—Every authorised insurer shall keep a record of the following particulars in respect of every policy of insurance issued by him for a period of five years, namely:—

- (i) full name and address of the person to whom the policy is issued;
- (ii) in the case of a policy relating to a specified motor vehicle, the registration mark and the number of such vehicle and in other cases, description of the vehicle covered;
- (iii) the date on which the policy of insurance comes into force and the date of its expiry;
- (iv) the conditions subject to which the persons or classes of persons specified in the policy of insurance will be indemnified;
- (v) the number and date of issue of every certificate of insurance or cover note issued in connection with the policy of insurance;
- (vi) the date, if any, on which any duplicate certificate of insurance or cover note was issued;
- (vii) whether, after the issue of duplicate, the original certificate of insurance was found and subsequently surrendered to the insurer and if so, on which date.

148. Records of exempted vehicles.—(1) In the case of a motor vehicle owned by any of the authorities specified in sub-section (2) of section 146 as also in the case of motor vehicles exempted under sub-section (3) of section 146, a certificate in Form 53 signed by a person authorised in that behalf by such authorities may be produced in evidence that the motor vehicle is not being driven in contravention of section 146.

(2) The authority referred to in sub-section (2) or exempted under sub-section (3) of section 146 shall keep a record of the motor vehicles owned by it in respect of which a policy of insurance has not been obtained and of any certificates issued by it under these provisions in respect of such vehicles, and of the names and addresses of the persons to whom such certificates have been issued and of the cancellation of any such certificates.

149. Supply of information.—Any person, authority or authorised insurer required under the provisions of this Chapter to keep records of documents shall furnish on request without any charge any particulars thereof to the Central Government or a State Government or to any police officer authorised in this behalf by the State Government.

150. Furnishing of copies of reports to Claims Tribunal.—(1) The police report referred to in sub-section (6) of section 158 shall be in Form 54.

(2) A registering authority or a police officer who is required to furnish the required information to the person eligible to claim compensation under section 160, shall furnish the information in Form 54, within seven days from the date of receipt of the request and on payment of a fee of rupees ten.

151. Establishment of fund.—(1) Each of the authorities referred to in subsection (3) of section 146 shall establish a fund for meeting any liability arising out of the use of any motor vehicle of that authority or any person in its employment may incur to third parties including liability arising under the Workmen's Compensation Act, 1923 (8 of 1923).

152. Amount of the fund.—(1) The fund shall be established with an initial amount of not less than rupees five lakhs and the said amount shall be kept in deposit with a bank or the Government.

(2) Subject to the provisions of sub-rule (3), the authority shall pay into the fund at the beginning of each accounting year in respect of its vehicles in running condition a sum of not less than rupees two hundred per vehicle.

Explanation.—In this sub-rule "vehicles in running condition" means all the vehicles of the authority which are expected to be in operation at any time during the accounting year.

(3) When the fund exceeds rupees twenty lakh or rupees two thousand arid five hundred per vehicle for the entire fleet of vehicle, whichever is less, annual payment referred in sub-rule (2) shall cease provided that if thereafter the amount at the credit of the fund falls below rupees twenty lakhs or rupees two thousand and five hundred per vehicle for the entire fleet of vehicles, whichever is less, such annual payment shall again be resumed:

Provided that if any authority other than the Central Government is of opinion that the amount of rupees twenty lakhs or rupees two thousand and five hundred per vehicle for the entire fleet of vehicles, whichever is less, is not adequate, it may, with the previous approval of the Central Government continue the annual payment beyond rupees twenty lakhs or rupees two thousand and five hundred per vehicle, as the case may be.

153. Investment of the fund.—From the amount at the credit of the fund the authority shall keep and maintain a cash deposit of not less than rupees fifty thousand in the bank and the rest of the amount at the credit of the fund shall be invested in Government securities. 4

154. Securities held as a deposit in the fund.—(1) All Government securities in which the fund is invested shall be transferred to the bank by the authority.

(2) It shall be competent for the authority at any time to exchange the Government securities for cash or for other Government securities of equal or greater market value, or both, and the bank shall carry out the instructions issued by the authority for such exchange after charging the usual commission to the authority. The securities so exchanged shall also be transferred to the bank.

155. Deposit procedure.—(1) As soon as the fund is established, the bank shall send to the authority a statement specifying the assets held by it on behalf of the authority and shall also send a copy thereof to the Central Government in the Ministry of Surface Transport or the State Government concerned, as the case may be.

(2) The statement referred to in sub-rule (1) shall be sent in the same manner and to the same authorities whenever there is a change in the assets of the authorities held by the bank.

156. Interest on deposits.—Interest realised on each deposit or the securities held in the fund shall be paid by the bank to the authority.

157. Withdrawal.—(1) No amount shall be withdrawn from the fund except for the purpose of meeting any liability arising out the use of any motor vehicle of the authority which the authority or any person in the employment of the authority may incur to third parties including liability arising under the Workmen's Compensation Act, 1923 (8 of 1923).

(2) The authority shall, subject to such conditions and restrictions as it may impose in this behalf, authorise one of its officers to draw money from the fund for the purpose mentioned in sub-rule (1).

(3) A copy of the authorisation referred to in sub-rule (2) duly authenticated by a competent officer of the authority shall be sent to the bank which shall permit withdrawal only by the officer named in such authorization subject to the conditions and restrictions contained therein.

158. Settlement of claims.—The authority shall comply with such directions as the Central Government or the State Government, as the case may be, may, from time to time issue, with respect to the procedure to be followed for settlement of claims which are to be met out of the funds.

Foreign insurance

159. List of foreign insurers.—(1) The Central Government shall publish in the Official Gazette a list (hereinafter referred to as the approved list) of foreign insurers who have been guaranteed in accordance with the provisions of this Chapter, together with the name of the guarantor or guarantors in each case and shall also publish from time to time any addition to or removal from the approved list.

(2) No foreign insurer's name shall be added to the approved list until such foreign insurer has been guaranteed by at least one insurer and the name of the foreign insurer who ceases to have at least one guarantor shall be removed from the list. 5

160. Guarantor of foreign insurer.—(1) An insurer who desires to guarantee a foreign insurer shall make application therefore to the Central Government in Form 55.

(2) The Central Government may, if it is satisfied that the application referred to in sub- rule (1) is in order and that it is expedient that the foreign insurer be placed in the approved list or, where the name of the foreign insurer is already included in the approved list, that the insurer should be added to the approved list as guarantor of the foreign insurer, and the name of the foreign insurer to the approved list if it is not already included, and include the insurer as a guarantor of such foreign insurer.

(3) A guarantor desiring to cease guaranteeing a foreign insurer shall give notice of not less than two months to the Central Government in Form 56, and where such notice has been given, the guarantor shall be deemed to have ceased to guarantee the foreign insurer from the date specified in the notice:

Provided that the insurer shall be deemed, in respect of all certificates of foreign insurance endorsed or renewed in accordance with the provisions of sub-rule (2) of rule 161 before the date of such cessation, to continue as the guarantor of the foreign insurer who has issued the certificate as if the guarantor had not ceased to be his guarantor.

(4) If at any time a guarantor ceases to be an insurer, the Central Government may, after giving such notice as may appear to it to be necessary, remove from the approved list the name of such guarantor wherever it appears:

Provided that the guarantor who ceases to be an insurer shall be deemed, in respect of all certificates of foreign insurance endorsed in pursuance of the provisions of sub-rule (2) of rule 161 before the date of removal of the name of the guarantor from the approved list, to continue as the guarantor of the foreign insurers as if the guarantor had not ceased to be an insurer and as if his name had not been removed from the list.

161. Endorsement of certificate of foreign insurance.—(1) A visitor wishing to have a certificate of foreign insurance endorsed or re-endorsed shall produce such certificate in Form 57 before the Customs Collector at a port of entry or land customs post or to such other officer as the Central Government may, by notification in the Official Gazette appoint, for the purpose of endorsement in accordance with the provisions of this Chapter or for the purpose of the renewal of any endorsement already made on the certificate in accordance with this Chapter.

(2) Such officer shall, if satisfied that the certificate of foreign insurance complies with the requirements of the provisions of this Chapter, that the period

of validity of such certificate in India has not expired, that the certificate has been issued by a foreign insurer in the approved list and that the guarantor specified in the certificate is shown in the approved list as a guarantor of the foreign insurer, make an endorsement thereon in Form 58.

(3) The period of validity of an endorsement or of the renewal of an endorsement made as aforesaid shall not in any case extend beyond the date on which the certificate of foreign insurance ceases to be effective in India:

Provided that when a visitor obtains a fresh certificate of foreign insurance during the period of his stay in India, the period of validity of an endorsement made upon it added to the period of validity of an endorsement or endorsements that may have been made upon the original certificate, shall not exceed one year in all. 6

162. Validity of certificate of foreign insurance.—A certificate of foreign insurance carrying an endorsement in accordance with the provisions of rule 161 shall have effect as if it were a certificate of insurance issued by the guarantor specified in it and shall be deemed to comply with the requirements of Chapter XI of the Act; and the policy to which it relates shall also be deemed to have been issued by such guarantor and to comply with the requirements of Chapter XI of the Act.

163. Maintenance of records by the guarantor.—Every guarantor shall in respect of certificates of foreign insurance issued under his guarantee by the foreign insurer whom he has guaranteed and every person who has ceased to be a guarantor shall, in respect of the certificate of foreign insurance issued under his guarantee by the foreign insurer whom he had guaranteed at any time in the preceding five years, keep a record of such particulars relating to the policies in connection with which the certificates of foreign insurance were issued as are required to be kept by insurers under the provisions of rule 147 in respect of policies, and the necessary additions to those records required to make them up to date shall be made as soon as is reasonably possible in the circumstances.

CHAPTER VIII

OFFENCES, PENALTIES AND PROCEDURE

164. Offences for the purpose of section 208.—The offences for the purpose of subsection

- (1) of section 208 shall be—
- (a) Driving during the period of disqualification (section 23);
 - (b) Failure to stop the vehicle when it is involved in an accident (section 132);
 - (c) Obtaining or applying for a driving licence without giving particulars of endorsement (section 182);
 - (d) Driving dangerously (section 184);
 - (e) Driving while under the influence of drinks or drugs (section 185);
 - (f) Abetment of an offence under section 184 or section 185 or section 188;
 - (g) Taking part in unauthorised race or trial of speed of any kind (section 189);
 - (h) Altering a driving licence or using an altered licence;
 - (i) Any other offence punishable with imprisonment in the commission of which a motor vehicle was used.

FORMS

FORM 1

[See rule 5(2)]

APPLICATION-CUM-DECLARATION AS TO PHYSICAL FITNESS

1.	Name of the applicant
2.	Son/wife/daughter of
3.	Permanent address
4.	Temporary address
	Official address (if any)
5.	(a) Date of birth
	(b) Age on date of application
6.	Identification marks (1)..... (2).....	

Declaration

(a)	Do you suffer from epilepsy, or from sudden attacks of loss of consciousness or giddleness from any cause?	Yes/No
(b)	Are you able to distinguish with each eye (or if you have held a driving license to drive a motor vehicle for a period of not less than five years and if you have lost, the sight of one eye after the said period of five years and if the application is for driving a light motor vehicle other than a transport vehicle fitted with an outside mirror on the steering wheel side) or with one eye, at a distance of 25 metres in good day light (with glasses, if worn) a motor car number plate?	Yes/No
(c)	Have you lost either hand or foot or are you suffering from any defect of muscular power of either arm or leg?	Yes/No
(d)	Can you readily distinguish the pigmentary colours, red and green?	Yes/No
(e)	Do you suffer from night blindness?	Yes/No
(f)	Are you so deaf as to be unable to hear (and if the application is for driving a light motor vehicle, with or without hearing aid) the ordinary sound signal?	Yes/No
(g)	Do you suffer from any other disease or disability likely to cause your driving of a motor vehicle to be a source of	Yes/No

danger to the public, if so, give details

I hereby declare that, to the best of my knowledge and belief, the particulars given above and the declaration made therein are true.

(Signature or thumb-impression of the applicant)

Notes:-(1) An applicant who answers "Yes" to any of the questions (a), (c), (e), (f) and (g) or "No" to either of the questions (b) and (d) should amplify his answers with full particulars, and may be required to give further information relating thereto.

(2) This declaration is to be submitted invariably with medical certificate in Form 1-A.

FORM 1-A

[See rules 5(1),(3),7, 10(a), 14(d and 18(d)]

Medical Certificate

(To be filled in by a registered medical practitioner appointed for the purpose by the State Government or person authorized in this behalf by the State Government referred to under sub-section (3) of section 8).

		9[Space for passport size photograph of the applicant]	
1.	Name of the applicant	
2.	Identification marks		(1)..... (2).....
3.	(a) Does the applicant, to the best of your judgment, suffer from any defect of vision? If so, has it been corrected by suitable spectacles?		Yes/No
	(b) Can the applicant, to the best of your judgment, readily distinguish the pigmentary colours, red and green?		Yes/No
	(c) In your opinion, is he able to distinguish with his eye sight at a distance of 25 metres in good day light a motor car number plate?		Yes/No
	(d) In your opinion, does the applicant suffer from a degree of deafness which would prevent his	Yes/No	

	hearing the ordinary sound signals	
	(e) In your opinion, does the applicant suffer from night blindness?	Yes/No
	(f) Has the applicant any defect or deformity or loss of member which would interfere with the efficient performance of his duties as a driver? If so, give your reasons in details	Yes/No
	(g) Optional	
	(a) Blood group of the applicant (if the applicant so desires that the information may be noted in his driving license.) (b) RH factor of the applicant (if the applicant so desires that the information may be noted in his driving license).

Declaration made by the applicant in Form 1 as to his physical fitness is attached.

[Certificate of Medical Fitness]

I certify that:-

- (i) I have personally examined the applicant Shri/Smt./Kum.....
- (ii) that while examining the applicant I have directed special attention to his/her distant vision;
- (iii) while examining the applicant, I have directed special attention to his/her hearing ability, the condition of the arms, legs, hands and joints of both extremities of the applicant; and
- (iv) I have personally examined the applicant for reaction time, side vision and glare recovery (applicable in case of persons applying for a license to drive goods carriage carrying goods of dangerous or hazardous nature to human life.)

And, therefore, I certify that, to the best of my judgment, he is medically fit/not fit to hold a driving license].

The applicant is not medically fit to hold a license for the following reasons:

Signature:

1. Name and designation of the Medical Officer/Practitioner

seal)

2. Registration number of Medical Officer.

Date:.....

Signature or thumb-impression of the candidate.

Notes.-[1.] The Medical Officer shall affix his signature over the photograph affixed in such a manner that part of his signature is upon the photograph and part on the certificate.]

[2. Dumb persons without deafness maybe granted a valid certificate of driving license for non-transport vehicle.]

FORM2

[See rules 10, 14, 17 and 18]

Form of Application for Learner's Licence Or Driving Licence Or Addition of a New Class of Vehicle Or Renewal of Driving Licence Or Change of Address Or Name

To,

The Licencing Authority

Services applying for (Please Tick _ mark against single or multiple service, wherever applicable)

Issue of New Learner's Licence	
Issue of New Driving Licence	
Addition of Class of Vehicle to Driving Licence	
Renewal of Driving Licence	
Duplicate Driving Licence	
Change / Correction of Address in Driving Licence	
Change / Correction of Name in Driving Licence	

1. Class of Vehicles (COV): Applicable for New Learner's Licence or New Driving Licence

Motor Cycle Without Gear (MCWOG)	
Motor Cycle With Gear (MCWG)	

Light Motor Vehicle as Non Transport Vehicle (LMV NTV)	
Invalid Carriage (vehicles for use by Divyang)	
Light Motor Vehicle as Transport Vehicle	
Medium or Heavy Goods or Passenger Vehicle as Transport Vehicle	
E-Rickshaw	
E-Cart	
Others; which is not covered in any of the above categories including, Harvester, Excavator,	

Explanation :-

1. Non - Transport Vehicles include Motor Cycle with or without sidecar for personal use, Mopeds, Three
2. Wheeled vehicles for personal use, Motor Car for personal use, Fork Lift;
3. Transport vehicle includes a public service vehicle, a goods carriage, an educational institution bus or private
4. service vehicle;
5. Light motor vehicle includes a transport vehicle or omnibus the gross vehicle weight of either of which or a
6. motor car or tractor or road-roller the unladen weight of any of which, does not exceed 7,500 kilograms;
7. 4. Medium goods vehicle includes any goods carriage other than a light motor vehicle or a heavy goods vehicle;
8. 5. Heavy goods vehicle includes any goods carriage the gross vehicle weight of which, or a tractor or a roadroller
9. the unladen weight of either of which, exceeds 12,000 kilograms.

2. Personal details of the Applicant (in Capital Letters)

Details of Aadhar card, if already available with the applicant.		Aadhar Card number
Details of Aadhar application number if applied.		Aadhar Card application number
First Name	Middle Name	Last Name
Gender (Tick ✓)	Male Transgender	Female Date of Birth: (dd/mm/yyyy)

Educational Qualification	Blood Group		
Email (optional)	Mobile number		
Landline Number (optional)			
3. Name of (Tick ✓)	Father	Mother	Husband
First Name	Middle Name		Last Name
4. Address (proof to be enclosed, in case of New Learner's Licence or New Driving Licence or Change of Address)			
	Present Address (shall be printed on Licence)	Permanent Address (Only if different from Present Address)	
House/Door/Flat No.			
Street/Locality/Police Station			
Location/Landmark			
Village/Town			
Sub Dist/Taluk/Mandal			
District			
State			
Pin code			
5. In case of request for Addition of a Class of Vehicle in Transport Category, please fill the following:			
Driving School Name			
Enrollment number in the Driving School			
Enrollment date in the Driving School			
Certificate number issued by the Driving School			
Certificate date as issued by the Driving School			
Training period in the Driving School	From date	To date	

6. Particulars of existing Licence (Learner's or Permanent)			
Licence Number			
Class of Vehicle(s)			
Name of the Licensing Authority which issued the Licence			
Validity Period	From date	To date	

7. List of Documents attached (Please refer to the attached annexure and tick)

DECLARATION

I am willing to donate my organ/tissue in case of death YES/NO

I declare that the facts stated above and documents submitted are true and genuine to the best of my knowledge and belief. I also state that I have/ have not been disqualified from holding a Driving Licence.

Date:

Signature of the Applicant

DECLARATION

(under sub-section (2) of section 7 of the Motor Vehicles Act, 1988)

Shri/Smt./Kumari _____ son/daughter of _____ who is a minor is under my care and I accept responsibility for his/her driving. If at a later date I decide not to accept responsibility for his /her driving, I shall inform the licensing authority in writing for the cancellation of the licence. I give my consent for his / her obtaining the learner's licence.

Name of the parent / guardian:

Relationship with the applicant:

Signature of the parent / guardian

FOR OFFICE USE ONLY

1. The applicant is exempted from production of a medical certificate under Rule 6 of the Central Motor Vehicles Rules, 1989; Learner's licence may be issued

YES /NO

2. The applicant is exempted from the Preliminary Test under sub-rule (2) of Rule 11 of the Central Motor Vehicles Rules, 1989; Learner's licence may be issued.	YES / NO		
3. Preliminary Test to check adequate knowledge and understanding of the matters namely traffic sighs, traffic signals, duties of driver, in case of his vehicle being involved in an accident, or documents to be carried while driving etc,. Sub-rule (1) of Rule 11 of the Central Motor Vehicles Rules, 1989	Date of Test	Result (✓) Pass / Fail / Absent/ Exempted	Testing Authority
4. Driving Test (Rule 15 of the Central Motor Vehicles Rules, 1989)	Date of Test	Result Pass / Fail	

The Learner's licence / Driving Licence is Issued Refused .

Signature of licensing authority
(or other person authorised in this behalf)

ANNEXURE

LIST OF DOCUMENTS TO BE SUBMITTED OR UPLOADED BY THE APPLICANT

Proof of Address and Age. (Select only one if the proof is common for Address and Age)

1. Aadhar Card	
2. Electoral Roll	
3. Life Insurance Policy	
4. Passport	
5. School Certificate	
6. Birth Certificate	
7. Pay slip issued by any office of the State Government or Central	

Government or a local Body	
8. Affidavit sworn before an Executive Magistrate or Notary Public or First Class Judicial Magistrate	
9. A certificate granted by a Registered Medical Practitioner not below the rank of Civil Surgeon as to the age of the applicant	
10. Any other document or documents as may be specified by State Government	

Other documents to be enclosed or uploaded if applicable

1. Self Declaration for Physical Fitness in Form – 1	
2. Medical Certificate in Form- 1A (to be provided if the applicant is applying for renewal and is above 40 years of age or applying for Transport Licence)	
3. Driving Certificate issued by Driving School or Establishments in Form 5	
4. Parent or Guardian Declaration in case of applicant who is a minor	
5. Photograph	
6. Valid proof of passport and visa (for International Driving Permit only)	
7. Proof of legal presence in India in addition to proof of residence in case of Foreigners	
8. Other documents, if any.	
9. The copy of police complaint made(in case the Driving Licence was lost or mutilated or defaced or damaged, lost).	
10. For change of name -	
(a) Existing name _____	
(b) Name to be changed as _____	
(c) Documents enclosed:-	
(i) Affidavit sworn before a First Class Judicial Magistrate or a Notary Public	
(ii) Marriage certificate	
(iii) Copy of newspaper advertisement	

Note: The principal rules were published in the Gazette of India, Extraordinary, Part-II, Section 3, Sub-section (i) *vide* notification number G.S.R. 590(E), dated the 2nd June, 1989 and last amended *vide* notification number G.S.R.201(E),dated the 5th March, 2018.

FORM 3

[See rules 3(a), 13]

Learner's License License No.....Date.....

Space for 13[passport size photograph]

(Name to be written across the photograph)

Specimen signature/thumb-impression of the holder of the License.

Signature and seal of the licensing authority

1.	Full name
2.	Son/wife/daughter of
3.	Date of birth
[4.	Optional	
	Blood group	
	RH factor]
5.	Present/permanent address
	Temporary/Official (if any)
6.	Mark(s) of identification	(1)..... (2).....

[is licensed to drive a motor vehicle of the following description throughout India and, in case of E-rickshaw or E-cart, in specified areas or routes, as a learner, subject to the provisions of rule 3 of the Central Motor Vehicles Rules, 1989]

The holder of the license has passed the medical test under rule 5 and the preliminary test referred to in rule 11(1) of the Central Motor Vehicles Rules, 1989.

The holder of the license is exempted from the medical test under rule 6 and from preliminary test under rule 11(2) of the Central Motor Vehicles Rules, 1989.

This license is valid from.....to.....

*Strike out whichever is inapplicable

Signature and designation of the
licensing authority

Warning: *The attention of the holder of this license is drawn to rule 3 of the Central Motor Vehicles Rules, 1989, which prohibits him from driving any motor vehicle unless he has besides him a person duly licensed to drive the vehicle and in every case, the vehicle carries "L" plates both in the front and in the rear of the vehicle.*

FORM 4 – Omitted

(*vide G.S.R No. 243(E) Dated 20.03.2018 w.e.f 01.04.2018*)

FORM 4-A

[See rule 14(2)]

Form Of Application For Issue Of International Driving Permit To Drive A Motor Vehicle In Other Countries

To

	Passport Photograph	size
--	------------------------	------

The licensing Authority,

.....
.....

I apply for an International Driving Permit to enable me to drive vehicles of the following categories :-

Categories Of Vehicles For Which The Permit Is Applied For

- (A) Motor cycles Category L1 and Category L2;
- (B) Motor vehicles, other than those in category (A) above, having a permissible maximum mass/weight not exceeding 3,500 kg. (7700 1b) and not more than eight seats in addition to the driver's seat in Category M1;
- (C) Motor vehicles used for the carriage of goods and whose permissible maximum mass/weight exceeds 3,500 Kg. (7700 1b);
- (D) Motor vehicles used for the carriage of passengers and having more than eight seats in addition to the driver's seat;
- (E) Combination of vehicles of which the driving vehicle is in a category or categories for which the driver is licensed (B and/or C and/or D), but which are not themselves in that category or categories.

Particulars To Be Furnished By Applicant

1.	Name	(Surname) ... (Middle Name) (First Name)
2.	Father's or husband's name
3.	Place of birth and country
	(Proof to be enclosed)
4.	Address
	(a) Present
	
	(b) Permanent
	

	
5.	Date of birth (proof to be enclosed)
6.	Educational qualification
7.	Identification marks	(1).....
		(2).....
8.	Blood group/RH factory
9.	Have you previously held International Driving permit ? If so, give details
10.	Particulars and date of every conviction which has been ordered to be endorsed on any driving license held by the applicant.
11.	Have you been disqualified for obtaining a driving license to drive? If so, for what reason?
12.	Have you been subjected to a driving test as to your fitness or ability to drive a vehicle in respect of which a driving license is applied for? If so, give the following details:

Date of test	Testing authority	Result of test
1.		
2.		
3.		
4.		

13. I enclose three copies of my recent passport size photograph.
14. I enclose the copy of driving license No.....dated.....issued by.....valid up to
15. I enclose a medical certificate in Form 1-A
16. I have paid the fee of Rs.....

I hereby declare that the particulars given above are true to the best of my knowledge and belief.

Date.....

Signature/Thumb-impression of applicant.

*Strike out whichever is inapplicable.

FORM 5

[See rules 14(e), 17(1)(b), 27(d) and 31-A(2)]

Driving Certificate Issued By Driving School Or Establishment

This is to certify that Shri/Smt./Kumari.....son/wife/daughter of.....residing at.....was enrolled in this school on.....residing at.....was enrolled in this school onand his/her name is registered at serial number.....in our register in Form 14 and that he/she has undergone the course of training in driving of.....(mention class of vehicle) according to the syllabus prescribed or a period from.....to.....satisfactorily.

I am satisfied with his/her physical fitness and sense of responsibility.

Signature.....

Name and designation.....

Name and address of the driving school with
license number and date of issue.

FORM 6 -Omitted

FORM 6-A

148X105_{MM}

[See rule 16(4)]

Grey colour

REPUBLIC OF INDIA

INTERNATIONAL MOTOR TRAFFIC

INTERNATIONAL DRIVING PERMIT

No.

Valid until.....(Maximum for 1 year or up to the date of validity of driving license whichever is earlier)

Name and Designation of Issuing Authority

Place of Issue

Date of Issue

Driving License No. and valid upto

Seal of the Authority

Signature of Issuing Authority

White colour

This permit is not valid for the territory of -

(1).....

The categories of vehicles for the driving of which it is valid are mentioned in this form at paragraph B.

(2) This permit shall in no way exempt the holder from the obligation to conform to the laws and regulations relating to residence and the exercise of a profession in each State through which he travels. In particular, it shall cease to be valid in a State if its holder establishes his normal residence there.

English and French
versions

A.PARTICULARS CONCERNING THE DRIVER

(1)	Surname/First name/Middle name/
(2)	Father's or husband's name
(3)	Place of birth and country
(4)	Date of Birth/approximate age
(5)	Address	
	(a) Current address
	
	(b) Permanent address
	
(6)	Blood group/RH factor

B.CATEGORIES OF VEHICLES FOR WHICH THE PERMIT IS VALID

- (A) Motor cycles Category L1 and Category L2;
- (B) Motor vehicles, other than those in category (A) above, having a permissible maximum mass/weight not exceeding 3,500 kg (7700 Ib) and not more than eight seats in addition to the driver's seat in Category M1;
- (C) Motor vehicles used for the carriage of goods and whose permissible maximum mass/weight exceeds 3,500 kg. (7700 Ib);
- (D) Motor vehicles used for the carriage of passengers and having more than eight seats in addition to the driver's seat.
- (E) Combination of vehicles of which the driving vehicle is in a category or categories for which the driver is licensed (B and/or C and/or D), but which are not themselves in that category or categories.

Restrictive conditions of use such as:-

Must wear corrective lenses.

Valid only for driving vehicle No.

Vehicle must be equipped to be driven by a one legged person.

Seal or stamp of

The Authority below

In the appropriate

Column.

A.
B.
C.
D.

Photograph
35×45 MM

Seal or stamp of the Authority

Signature or thumb print of holder

Disqualifications:-

The holder is deprived of the right to drive in the territory of (Name of country) at.....	Until.....
	On.....

	Signature on seal or stamp of the Authority which has invalidated the permit in its territory
	Until.....
	On.....
The holder is deprived of the right to drive in the territory of (Name of the country) at.....	
	Signature and seal or stamp of the Authority which has invalidated the permit in its territory.

DETAILS DU CHAUFFEUR

(1)	Nom/Prenom/deuxieme nom
(2)	Nom du Pere ou de mari
(3)	Dieu de Naissance et pays
(4)	Date de Naissance/1'age
(5)	Adresse	
	(a) L'adresse en cours
	(b) L'adresse permanente
(6)	Groupe Sanguin/Facteur RH

CATEGORIES DES VEHICULES POUR LESQUELLES LE PERMIS EST VALABLE

(A) Motos (L1 et L2) Categories

(B) Vehicules sauf ceux de categories A, ayant La masse maximum acceptable ne depassant pas 3,500 Kilos (7700 Ib) et pas plus que huit sieges en plus dela siege du chauffeur, (M-1) categorie

(C) Vehicules utilizes pour porter les Marchandises et don't la Masse Maximum acceptable depasse 3,500 Kilos (7700 Ib)

(D) Vehicules utilizes pour porter les voyageurs et ayant plus que huit sieges en plus de la siege du chauffeur.

(E) Combination de vehicules don't le Vehicule a conduire est dans la categorie ou categories pour lesquels le chauffeur est donne le permis (B et/ou C/ou D) mais lesquels ne sont pas dans cette/ces categorie(s).

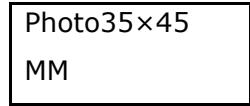
Conditions restrictive d'usage comme

-Doit porter des verres correctifs.

-Valable seulement pour le Numero de vehicule a conduire.

-Vehicule doit etre muni pour conduire par une personne ayant une jambe.

Sceau/Cachet
De l'autorité
au-dessous, dans
l'espace approprié

A.	 Photo 35×45 MM
B.	
C.	
D.	
E.	

Sceau ou cache de l'autorité

Signature ou
Print du pouce

Disqualifications:-

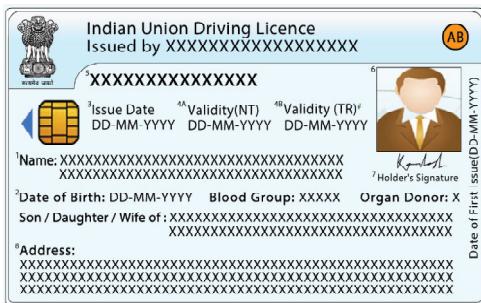
Le détenteur est dépossédé du droit de conduire dans le territoire (nom de province) à.....	Jusqu'à..... le.....
	Signature et sceau de l'autorité qui a invalidé le permis dans son territoire.
Le détenteur est dépossédé du droit de conduire dans le territoire (nom de province) à.....	Jusqu'à..... Le..... Signature et sceau de l'autorité qui a invalidé le permis dans son territoire.]

FORM 7

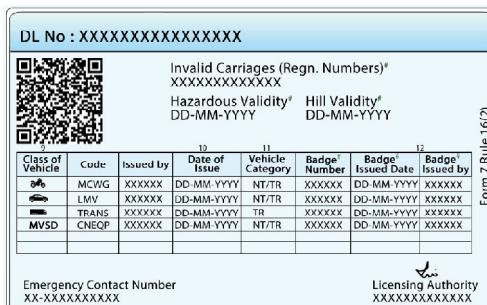
[(See rule 16 (1) and (2)]

Form for driving licence (laminated card without chip or smart card) Visual inspection zone

- A. The design of the card on the front side shall include the following data fields in visual form –

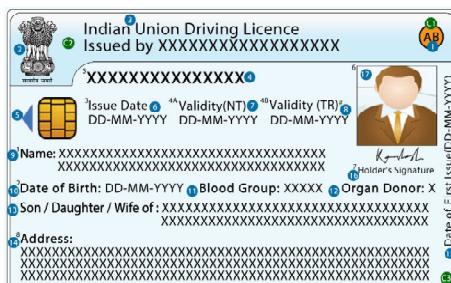


- B. The design of the card on the reverse side shall include the following data fields in visual form

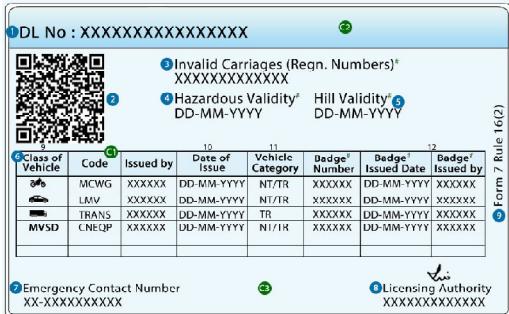


1. The details of the features on the card shall be as under, namely:-

- A. For front side:



- B. For reverse side



2. Specifications--

(a) Card Size - 85.6mm x 54.02 mm +/- 2 mm; Thickness minimum 0.7 mm

- (i) Card in the form of either laminated card type without chip; or as per the defined template in the form of ICC (Integrated Circuit Card) compliant to ISO/IEC 7816-Part 1, 2, 3, 4, 8 and 9, IS16695 (Part 1: 2018) Smart Card Template Architecture Part 1: Basic Command Set (commonly known as SCOSTA Contact Smart Card);
 (ii) PICC (Proximity Integrated Circuit Card), if provided, compliant to ISO/IEC 14443-Part 1, 2 3 and 4, ISO/IEC 7816-Part 4, 8 and 9, IS16695 (Part 1: 2018) Smart Card Template Architecture Part 1: Basic Command Set (commonly known as SCOSTA Contactless Smart Card), with card dimensions compliant to ISO/IEC 7810 ID-1 standard.

(b) Font Style and Size specifications

Front Side				Reverse Side			
Sr.N o.	Features	Font Name	Size	Sr.N o.	Features	Font Name	Size
1.	State/UT Code	Myriad Pro Regular	7pt	1.	Driving Licence Number	Myriad ProBold	8pt
2.	National Emblem	Symbol	7.37mm x12.28 mm	2.	QR code (As specified by Central Government)	NA	15mm x15mm
3.	Card Header	Myriad Pro Bold	9pt	3.	Invalid Carriage#(Regn.Numbers)	Myriad ProRegular	7pt
4.	Driving Licence Number	Myriad Pro Bold	9pt	4.	Hazardous Validity#	Myriad Pro Regular	7pt
5.	IC Chip (if opted for)	NA	NA	5.	Hill Validity#	Myriad Pro Regular	7pt
6.	Issue Date	Myriad Pro Regular	7pt	6.	Vehicle class table (Class of Vehicle, Code, Issued by, Date of Issue, Vehicle Category,	Myriad Pro Regular	5pt

					Badge Number# , Badge Issued Date# , Badge Issued by#)		
7.	Validity (NT)	Myria d Pro Regul ar	7pt	7.	Emergency Contact Number	Myriad Pro Regular	6pt
8.	Validity (TR)	Myria d Pro Regul ar	7pt	8.	Licensing Authority	Myriad Pro Regular	6pt
9.	Name	Myria d Pro Regul ar	7pt	9.	Form 7 Rule 16(2)	Myriad Pro Regular	6pt
10.	Date Birth	Myria d Pro Regul ar	7pt				
11.	Blood Group	Myria d Pro Regul ar	7pt	11.			
12.	Organ Donor	Myria d Pro Regul ar	7pt	12.			
13.	Son/Daught er/ Wife of	Myria d Pro Regul ar	7pt	13.			
14.	Address	Myria d Pro Regul ar	7pt	14.			
15.	Date of First Issue	Myria d Pro Regul ar	6pt	15.			
16.	Holder's Signature	Myria d Pro Regul ar	5pt	16.			
17.	Photograph	NA	14.82 mm x 14.82 mm	17.			
13.	Son/Daught er/ Wife of	Myria d Pro Regul ar	7pt	13.			

: Both Label and Value would be blank in cases where they are not applicable or have not been opted for

(c) Background Colour Details

Front Side			Reverse Side		
Sr.No	Hex Code	Print colour	Sr.No.	Hex Code	Print colour
C1.	#f8951d	C: 0 M: 49 Y: 100 K:0	C1.	#ddf1fa	C:12 M: 1 Y:1 K:0
C2	Gradient Color Top: #e7f5f5 Bottom:#a3daf7	Gradient Color Top:C:8M: 0 Y:3 K:0 Bottom:C:33 M:1 Y:0 K:0	C2	Gradient Color Top: #e7f5f5 Bottom:#a3daf7	Gradient Color Top: C:8 M: 0 Y:3 K:0 Bottom:C:33 M:1 Y:0 K:0
C3.	#edf8fc	C:6 M: 0 Y:1 K:0	C3.	#edf8fc	C:6 M: 0 Y:1 K:0

MACHINE READABLE ZONE (*applicable only if opted for Smart Card*)

The concerned State Governments shall provide the following features of the licence in the Machine Readable Zone, namely:-

Sr. No.	Field
1.	DL Holder Personal Details : Driving Licence Number (DL) Name of the DL Holder Full Name of the DL Holder Gender Guardian(Mother/Father/Husband) Name Relation with Guardian (e.g.: S/o, W/o , D/o) Date of Birth (in ddmm/yyyy format) First Identification Mark Second Identification Mark Blood Group Mobile Number Email Id Alternate Mobile Number Emergency Contact Number Permanent Address PINCODE of Permanent Address State Code In Permanent Address District Name in Permanent Address Sub-division/Taluk name in Permanent Address Village Name in Permanent address Present Address State Code in Present address PINCODE of Present address District Name in present Address Sub-division/Taluk Name in present Address Village Name in Present address
2.	Licence details : Valid From (Transport) (in ddmm/yyyy format) Valid Till (Transport) (in ddmm/yyyy format) Valid From (Non-Transport) (in ddmm/yyyy format) Valid From (Non-Transport) (in ddmm/yyyy format) First Date of DL Issuance (in ddmm/yyyy format) First (Original) Issuing Authority Date of Hazardous Validity (in ddmm/yyyy format) Date of Hill Region validity (in ddmm/yyyy format)

	Authority who issued Transport Authorization Transport Authorization Number Transport Authorization date (in ddmm/yyyy format) Invalid carriage Vehicle Registration Number INVALID Carriage 2 nd Vehicle Registration Number , if any Invalid carriage 3 rd Vehicle Registration Number , if any
3.	Class of Vehicle details : Class of Vehicle (COV) Class of Vehicle Issue Date (in ddmm/yyyy format) Class of vehicle – Issued By (Name & Designation) Badge No. Badge Issue Date (in ddmm/yyyy format) Badge Issued by -LA Office
4.	Image details : Photograph of DL Holder Signature of DL Holder
5.	Enforcement details : Challan/Inward Number Challan Date (in ddmm/yyyy format) Endorsement Authority ID Endorsement Authority Name Section/ Rule Violated Disqualification Type (Suspended/Cancelled) Disqualification period from (in ddmm/yyyy format) Disqualification period Up to (in ddmm/yyyy format) Class of Vehicle that is suspended/Cancelled Settlement date Review Date (in ddmm/yyyy format) Review Authority Name Remarks .";

FORM 8 – Omitted

[*vide G.S.R No. 243(E) Dated 20.03.2018 w.e.f 01.04.2018*]

FORM 9 – Omitted

[*vide G.S.R No. 243(E) Dated 20.03.2018 w.e.f 01.04.2018*]

FORM 10

[See rule 23(1)]

State Register Of Driving License

1.	(a) Driving license number and date of initial issue
	(b) Licensing authority which issued the license
	(c) Name and designation of the officer

	who has taken the driving test and the date of passing the test by the holder of the license	
2.	Name, address and other particulars of the holder of the driving license:
	(a) (a) Name of the holder (with guardian's name, if minor)
	(b) Date of birth
	(c) Educational qualifications
	(d) Permanent address
	(e) Temporary address/ official address (if any)
	(f) Subsequent changes of address
	(g) Class and types of vehicles for which license is given
	(h) Addition of vehicles (if any) with dates
	(i) Date of expiry of the license and further renewal (with details of licensing authority which renewed the license)
	(j) Details of disqualifications, fine, cancellation, etc., in relation to the holder of the driving license

FORM 11

[See rules 24(1), 24(4) and 25]

Form Of License For The Establishment Of A Motor Driving School

License No.....

License is hereby granted for the establishment of a school for imparting instructions in driving of motor vehicles specified below:

- (a) Motor cycle,
- (b) Invalid carriage,
- (c) Light motor vehicle,
- (d) Medium goods vehicle,

(e) Medium passenger motor vehicle,
(f) Heavy goods vehicle,
(g) Heavy passenger motor vehicle,
(h) Motor vehicles of the following description:
by.....
(Name and address of the license holder)
at.....
(premises of the school)
the school being known as the..... subject to the provisions of
the Motor Vehicles Act, 1988 and the Central Motor Vehicles Rules, 1989.
The license is valid from..... to.....

Dated..... Licensing Authority

This license is hereby renewed from.....to..... Licensing Authority

FORM 12

[See rule 24(2)]

Form Of Application For A License To Engage In The Business Of Imparting Instructions In Driving Of Motor Vehicles

To

The Regional Transport Officer,

.....
The undersigned hereby applies for obtaining a license to run the business of imparting instructions in driving of motor vehicles:

1.	Full name of the applicant	
2.	Son/wife/daughter of	
3.	Address	
4.	Place where the applicant desires to start his business	
[5.]	Nature and extent of facilities available]	
6.	Qualifications of staff engaged for imparting instructions	
[7.]	Make and model of engine to be used for training purposes]	
8.	Details of the registration marks of the vehicles used for imparting driving instructions	
9.	I have paid the fee of Rs.	

Dated.....

Signature of the applicant

FORM 13

[See rules 24(2) and 25]

Form Of Application For Renewing A License To Engage In The Business Of Imparting Instructions In Driving Of Motor Vehicles

To

The Regional Transport Officer,

.....
.....
The undersigned hereby applies for renewal of a license to run the business of imparting instructions in driving of motor vehicles:

1.	Full name of the applicant
2.	Son/wife/daughter of
3.	Address
4.	Place of business
5.	Number of existing licenses
6.	Date of issue
7.	Period of validity
8.	Whether the application has been made before the expiry of existing license, if not, the reasons for delay
9.	Whether the earlier license was suspended/cancelled for any reason, details thereof such as date of suspension, reasons for such suspension/cancellation. Date of revocation of suspension/cancellation
10.	I have paid the fee of Rs.
	Dated	Signature of the applicant

FORM 14

[See rule 27(a)]

Register Showing The Enrolment Of Trainee(S) In The Driving School Establishments

Register for the year.....

1.	Enrolment number
2.	Name of the trainee with his photograph
3.	Son/wife/daughter of
4.	Address:
	(a) Permanent address
	(b) Temporary address/official address (if any)
5.	Date of birth
6.	Class of vehicle for which training imparted
7.	Date of enrolment
8.	Learner's license number and date of its expiry
9.	Date of completion of the course
10.	Date of passing the test of competence to drive
11.	Driving license number and date of issue and the licensing authority which issued the license
12.	Remarks
13.	Signature of the license holder/instructor

FORM 15

[See rule 27(i)]

Register Showing The Driving Hours Spent By A Trainee

Name of the school/establishment			
Name of the trainee			
Enrolment number			
Date of enrolment			
Date	Hours spent in actual driving From....hrs To....hrs	Class of vehicle	Signature of the instructor	[Signature or thumb-impression of the trainee]
1	2	3	4	5
1.				
2.				
3.				
4.				
5.				

FORM 16

[See rule 34(1)]

Form Of Application For Grant Or Renewal Of Trade Certificate

To

The Registering Authority,

.....

I/We hereby apply for issue of/renewal of a trade certificate(s):-

1	Applicant's name .	
2	Son/wife/daughter of .	
3	Applicant's full address (proof to be attached) .	
4	Whether the applicant is a [manufacturer or dealer of automobiles or automobile ancillary or a test agency specified under rule 126 of the said rules] in motor vehicles, approved repairer	

	or vehicles, engaged in building bodies of vehicles, engaged in the business of hire purchase/lease/hypotheccation of vehicles	
5.	Number of certificates required	
6.	Class of motor vehicle(s) in respect of which certificate(s) is required	
7.	Amount of fee paid	
8.	If the application is for renewal indicate the trade certificate No., date of issue and date or expiry in respect of which renewal is applied	

Declaration

I/We do hereby declare that the trade certificate(s) is/are required by me/us for bona fide trade purpose.

Place.....

Signature of the applicant

Date.....

*Strike out whichever is inapplicable.

FORM 17

[See rule 35(1)]

Form Of Trade Certificate

1.	Serial number of certificate	
2.	Full name and address of certificate holder	
3.	Trade number assigned in respect of the certificate	
4.	Class of motor vehicle in respect of which the certificate is to be used	
5.	Date of expiry of certificate	
6.	Amount of fee paid	
7.	Date and stamp of office of issue	
	Station.....	
	Date.....	
	Registering Authority of Region/State	Valid throughout India

SCHEDULE

Form of folder for the certificate

The folder shall be of metal and be weather-proof. It shall be circular in shape and conform to the following dimensions:

Circular pattern, without cross bars-certificate tray

The certificate of standard pattern when cut along the outline of the outer of that two circles, shall fit neatly into a sheet-metal tray of suitable thickness, having a turned-up edge of sufficient depth to hold the license and stout cover of transparent white glass.

Ring cover: A circular ring of sheet-metal shaped to fit down closely into the tray, and adopted for fixing by screws, bolts, or otherwise to the vehicle in the prescribed position. A rubber packing ring shall be arranged to fit between the ring cover and the cover glass and tray so as to render the whole carrier weather-proof.

Dimensions: The aperture within the ring-cover shall clearly exhibit the whole of the certificate lying within the inner circle of the certificate and shall have a diameter of 10 cm.

FORM 18

[See rule 38(1)]

Intimation of loss or destruction of a trade certificate and application for duplicate

To

The Registering Authority,

The trade certificate issued to me/us bearing number..... and valid up to..... has been mutilated/soiled/lost/destroyed* in the following circumstances and is not in my possession for the reasons specified below:

I/We surrender the *mutilated/soiled trade certificate.

I/We hereby declare that to my/our knowledge the trade certificate has not been either suspended or cancelled under the provisions of the Rules and that the above certificate is not in the use of any one else. I undertake to surrender the trade certificate if it is found by me or restored to me.

I/We hereby deposit the fee of Rs..... and apply for the issue of duplicate trade certificate.

Signature or thumb-impression of the applicant
Address.....
.....

Dated:.....

*Strike out whichever is inapplicable.

FORM 19

[See rule 43]

Register to be maintained by the holder of trade certificate

Dat e	Trade certificat e number and in case of vehicle registere d	the registra tion num ber of the vehicle	Description of motor vehicle	Purpos e for which vehicle sent out or brought	Driver' s name	license No. and address and whether he is the employee of the holder of trade certificate	Hou rs of leavi ng the prem ises by the vehic le	Mileage covered between the hours noted in columns(6) and (7)	Signature and designatio n of the person authorize d by the holder
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)

FORM 20

[See rule 47]

APPLICATION FOR REGISTRATION OF A MOTOR VEHICLE

(To be made in duplicate if the vehicle is held under an agreement of Hire-Purchase/Lease/Hypothecation and duplicate copy with the endorsement of the Registering Authority to be returned to the Financier simultaneously on Registration of motor vehicle)

To

The Registering Authority,

.....

.....

1	Full name of the person to be registered as Registered owner Son/wife/daughter of
2	Age of the person to be registered as Registered owner
3	Permanent address
	(Electoral Roll/Life Insurance Policy/Passport/Pay slip issued by any office of the Central Government/State Government or a

	local body/Any other document or documents as may be prescribed by the State Government/ Affidavit sworn before an Executive Magistrate or a First Class Judicial Magistrate or a Notary Public to be enclosed)	
4.	Temporary address/Official address, if any
5.	Duration of stay at the present address
*[5(A)]	Mobile number of the owner of the vehicle]
6.	The annual income and PAN/GIR number of the owner
7.	Place of birth
8.	If place of birth is outside India, when migrated to India
9.	Declaration of Citizenship status (i) If deemed Citizen or Citizen by Birth (Birth certificate and school certificate in support of Citizenship as Indian to be enclosed) (ii) If Citizenship is acquired by Descent/Registration (In case Citizenship acquired by Descent, Birth Certificate, land/property document of parent/in case of Citizenship acquired by Registration, certificate to be enclosed) (iii) If Citizenship by Naturalisation (Certificate of Naturalisation and Certificate of Registration to be enclosed) (iv) If non-Indian Citizen (Valid passport or other travel

	documents and such other document or authority as may be prescribed by law to be enclosed)	
10.	Name and address of the Dealer or Manufacturer from whom the vehicle was purchased (sale certificate of road worthiness issued by the Manufacturer to be enclosed)
11	If ex-army vehicle or imported vehicle, enclose proof If locally manufactured Trailer/Semi-trailer, enclose the Approval of design by the State Transport Authority and Note the proceedings number and date of approval
12.	Class of vehicle
	(if motor cycle, whether with or without gear)
13.	The motor vehicle is
	(a) a new vehicle,
	(b) ex-army vehicle,
	(c) imported vehicle
	[(d) in-use E-rickshaw or E-cart]
14.	Type of body
15.	Type of vehicle
16.	Maker's name
17.	Month and year of manufacture
18.	Number of cylinders
19.	Horse power
20.	Cubic capacity
21.	Maker's classification or if not known, wheel base
22.	Chassis No (affix pencil print)
23.	[Engine number or motor number in the case of Battery Operated Vehicles]
24.	Seating capacity (including driver)

25.	Fuel used in the engine
26.	Unladen weight
27.	Particulars of previous registration and registered number (if any)
28.	Colour or colours of body, wings and front end

I hereby declare that the motor vehicle has not been registered in any State in India.

Additional particulars to be completed only in the case of transport vehicles other than motor cab

29.	Number, description, size and ply rating of tyres, as declared by the manufacturer	
	(a) Front axle=	
	(b) Rear axles=.....	
	(c) Any other axle=.....	
	(d) Tandem axle=.....	
30.	Gross vehicle weight	
	(a) as certified by manufacturer.....kgms	
	(b) To be registered.....kgms	
31.	Maximum axle weight	
	(a) Front axle=Kgms	
	(b).Rear axle=.....Kgms	
	(c) Any other axle=.....kgms	
	(d)Tandem axle=.....kgms	
32.	(a) Overall length.....	
	(b)Overall width.....	
	(c)Overall height.....	
	(d)Over hang.....	

The above particulars are to be filled in for a rigid frame motor vehicle of two or more axles for an articulated vehicle of three or more axles or, to the extent applicable, for trailer, where a second semi-trailer or additional semi-trailer are to be registered with an articulated motor vehicle. The following particulars are to be furnished for each such semi-trailer.

33.	Type of body
34.	Unladen weight
35.	Number, description and size of tyres on each axle
36.	Maximum axle weight in respect of

	each axle	
37.	The vehicle is covered by a valid certificate of insurance under Chapter XI of the Act	Insurance Certificate or Cover Note
		No.....
		Date.....
		Of.....
		(Name of company) valid from
	to.....
38.	The vehicle is exempted from insurance. The relevant order is enclosed	
39.	I have paid the prescribed fee of rupees.....	

Signature or thumb-impression of the person
Date..... to be registered as registered owner

Note:-The motor vehicle above described is

(i) Subject to Hire-purchase agreement/Lease agreement with.....
.....

(ii) Subject to Hypothecation in favour of.....
.....

(iii) Not held under Hire-purchase agreement, or lease agreement, or subject to Hypothecation

*Strike out whatever is inapplicable. If the vehicle is subject to any such agreement the signature of the

Financier with whom such agreement has been entered into is to be obtained.

.....
Signature of the Financier with whom an agreement of Hire-purchase, Lease or Hypothecation has been entered into.	Signature or thumb-impression of the Registered Owner

Certificate of inspection of motor vehicle

Certified that the particulars contained in the application are true and that the vehicle complies with the requirements of the Motor Vehicles Act, 1988 and the Rules made thereunder.

Date.....

Signature of the Inspecting Authority

Ref. No.....

Name.....

Designation.....

Office of the.....

Office endorsement

The above said motor vehicle has been assigned the Registration number.....and registered in the name of the applicant and the vehicle is subject to an agreement of Hire-purchase/Lease/Hypothecation with the Financier referred above.

Date.....

Signature of the Registering Authority

To

The

Financier.....

.....

(To be sent by registered post acknowledgment due)

Specimen signature or thumb-impression of the person to be registered as Registered Owner and Financier are to be obtained in original application for affixing and attestation by the Registering Authority with office seal in Forms 23 and 24 in such a manner that the part of impression of seal or a stamp and attestation shall fall upon each signature.

Specimen signature of the Financier	Specimen signature of the Registered Owner
(1).....	(1).....
(2).....	(2).....]

* Inserted vide G.S.R No. 178(E) dated 16-03-2020, (w.e.f 01-04-2020)

FORM 21

[See rules 47(a) and (d)]

Sale certificate

[(To be issued by manufacturer or dealer or registered E-rickshaw or E-cart Association (in case of E-rickshaw or E-cart) or officer of Defence Department (in case of military auctioned vehicles) for presentation along with the application for registration of a motor vehicle).]

Certified that.....(brand name of the vehicle) has been delivered by us to..... on..... (date)

Name of the buyer
Son/wife/daughter of
Address (Permanent)
(Temporary)

The vehicle is held under agreement of hire-purchase/lease/hypothecation with.....

The details of the vehicle are given below:

1.	Class of vehicle
2.	Maker's name
3.	Chassis No.
4.	[Engine number or motor number in the case of Battery Operated Vehicles]
5.	Horse power or cubic capacity
6.	Fuel used
7.	Number of cylinders
8.	Month and year of manufacture
9.	Seating capacity (including driver)
10.	Unladen weight
11.	Maximum axle weight and number and description of tyres (in case of transport vehicle)
	(a) Front axle
	(b) Rear axle
	(c) Any other axle
	(d) Tandem axle
12.	Colour or colours of the body
13.	Gross vehicle weight

14. Type of body

[Signature of the Manufacturer or dealer or officer of Defence Department or registered E-rickshaw or E-cart Association]/ Dealer or Officer of Defence Department

*Strike out whichever is inapplicable.

FORM 22

[See Rules 47(g), 115, 124(2) and 127]

Initial Certificate of Compliance with Pollution Standards, Safety Standards of Components and Road-Worthiness

(To be issued by the manufacturer or registered E-rickshaw or E-cart Association in case of E-rickshaw or E-cart)

It is certified that the following vehicle complies with the emission values, including mass emission norms and noise standards including noise level under the provisions of the Motor Vehicles Act, 1988, and the rules made thereunder as specified below:

1. Brand name of the vehicle:

2. Chassis number:

3. Engine number (motor number, in case of battery operated vehicles):

4. Emission norms applicable:

[Bharat Stage- IV/ VI/ Bharat (Trem) Stage-III/III A etc.]

5. The emission, sound level for horn and pass by noise values of the above vehicle model, obtained during Type Approval as per Central Motor Vehicle Rules, 1989 are given below:

(i) Emission values [refer rule 115 (2)] :

(a) For Petrol/ CNG/LPG/ Electric-Hybrid vehicles

Sr. No.	Pollutant	Mass in gram/ kilometer or gram/ kilowatt per hour
(1)	(2)	(3)
1	Carbon Monoxide	
2	Hydro Carbon	
3	Non-Methane HC	
4	NOx, if applicable	
5	HC + NOx, if applicable	

(b) For diesel vehicles :

Sr. No.	Pollutant	Mass in gram/ kilometer or gram/ kilowatt per hour
(1)	(2)	(3)
1	Carbon Monoxide	
2	Hydro Carbon	
3	Non-Methane HC	
4	NOx, if applicable	
5	HC + NOx, if applicable	
6	PM	

(ii) Noise level (refer rules 119 and 120) :

- (a) horn (for all vehicles other than agricultural tractors and construction equipment vehicles) as installed on the vehicle: dB(A);
- (b) Bystander's position (for all vehicles other than agricultural tractors and construction equipment vehicles) dB(A);
- (c) Operator's ear level (for agricultural tractors and construction equipment vehicles)dB(A)

(Signature of manufacturer or of authorised signatory
of registered E-rickshaw or E-cart Association)

Note 1: This Form shall be issued with the signature of the manufacturer duly printed in the Form itself by affixing facsimile signature in ink under the hand and seal of the manufacturer.

Note 2: In the case of e-rickshaw or e-cart, this Form shall be issued with the signature of an authorized signatory of registered E-rickshaw or E-cart association duly printed in the Form itself by affixing facsimile signature in ink under the hand and seal of such signatory.

FORM 22-A

[See Rules 47(g), 115, 124(2), 125C*, [125F, 125G], 126A, 127]

Initial certificate of compliance with pollution standards, safety standards of components and road-worthiness (for vehicles where body is fabricated separately)

PART I

(To be issued by the manufacturer)

Certified that the following vehicle complies with the provisions of the Motor Vehicles Act, 1988, and the rules made thereunder, including the following mass emission norms:

Purchased from the Dealer Name and Address
Name of the Registered Owner

Son/wife/daughter of
Full address (Permanent)
Full address (Temporary)
37[PAN No.]

Signature of chassis manufacturer

[Form 22-A, Part I shall be issued with the signature of the manufacturer duly printed in the Form itself by affixing facsimile signature in ink under the hand and seal of the manufacturer]

[PART-II]

(To be issued by the body builder)

Certified that the body of the following vehicle has been fabricated by us and the same complies with the provisions of the Motor Vehicles Act, 1988, and the rules made there under:

1. Brand name of the vehicle _____

2. Chassis No._____

3. Engine No./Motor No._____

*4. Bus Body Builder Accreditation Certificate Number _____ Date _____ valid up to date _____.

*5. Vehicle Body construction (Bus/ Road Ambulance/ Motor Caravan/ etc.) Type Approval Certificate Number _____ Date _____ issued by the approved Test Agency.]

* Applicable for buses only

(Signature of the body builder)

[Form 22-A Part II shall be issued with the signature of the body builder duly printed in the Form itself by affixing facsimile signature in ink under the hand and seal of the body builder.]

FORM 22B

[See rule 47(1)(g)]

PART-A

Initial self-certificate of compliance of the bus body built on drive away chassis by the bus body builder to the provisions of the Code and Practice for Bus Body Design and Approval AIS:052, as amended from time to time

1.	Name, address and telephone number of the bus body builder	
2.	Accreditation certificate details like number, date and validity	
3.	Details of chassis on which bus is built	
3.1	Particulars of chassis manufacturer	
3.2	Chassis number	
3.3	Type of chassis : Ladder /semi-integral/integral	

3.4	Engine make and model	
3.5	Position of engine on vehicle	
3.6	Type of fuel	
3.7	Engine number	
3.8	Wheel base	
3.9	Type of transmission	
4.	Details of bus body built on the chassis	
4.1	Type I/II/III/Mini/Midi Comfort category [NDX/SDX/DLX/ACX]	
4.2	(i) Designed seating (ii) Seat reservation for women/senior citizen/person with disability (iii) Standing capacity as applicable (iv) Enclose layout drawing	
4.3	Weight in Kg	
4.3.1	Chassis Weight	
4.3.2	Kerb Bus Weight	
4.3.3	Gross Vehicle Wight (GVW)	
5.	Overall dimensions (i) Length (ii) Width (iii) Height (iv) Front overhang (v) Rear overhang Enclose drawing indicating dimensions	
6.	Internal dimensions, technical and safety requirements	
6.1.	Service door: (i) Number of service doors (ii) Type of service door (manual/ power operated/ automatic) (iii) Location/position (dimensions to be furnished as per applicable requirements)	
6.2.	Window: (i) Type of windows (ii) Number of windows (iii) Position/locations of windows (iv) Dimensions of widows Enclose details of the windows provided.	
6.3.	Guard rail - Enclose details of guard rails	
6.4.	Emergency exits: (i) Number of exits (ii) Location of exits (iii) Type of emergency exits (i.e. emergency doors / emergency windows / emergency hatches etc.)	
6.5.	Emergency door: (i) Dimensions (ii) Position (iii) Opening from inside or outside or both (iv) Access (v) Safety interlock (vi) Warning alarm in open position	
6.6.	Emergency window: (i) Type of emergency window (ii) Dimensions	

	(iii) Position (iv) Method of opening emergency window (v) Number of emergency windows (vi) Window glass breaking provision	
6.7.	Escape hatch: (i) Type of emergency hatches (ii) Dimensions, position, (iii) Number of emergency hatches (iv) Method of opening (v) Glass breaking provision	
6.8.	Details of method and procedure of marking of emergency exits	
6.9.	Details of safety signs:	
6.1	Step:	
0.	Number of door steps Height of the steps Dimensions of the steps Whether retractable/collapsible steps provided	
6.1	Details of access space from service door to inward of the vehicle	
6.1	Dimensions of floor area and height: (i) Floor area (ii) Floor height	
6.1	Details of gangway and access passage height, width and slope	
6.1	Details of hand rails and hand holds in the gangways, passage area, service door area and emergency door area	
6.1	Details of seats and seat layout. Enclose layout of seats.	
6.1	Dimensions of passenger seats: (i) Seat width (ii) Back rest height (iii) Arm rest width (iv) Seat cushion depth (v) Seat spacing (vi) Seat base height (vii) Torso angle (viii) Seat base thickness (ix) Seat back thickness (x) Clearance leg space (xi) Free height over seating position (xii) Intrusion over seating position	
	Whether following are provided as stipulated in Bus Body Code AIS:52 Rev.1 (amended time to time). Important Note:- In case if the compliance is reported as "No" then vehicle shall not be registered.	
6.1 7.	Driver work area: Note: Driver door, climb facility, hand holds, work area dimensions, position of steering wheel, placement of instrument panel, shroud for wiring harness, position of controls, heating/cooling/ventilation for the driver to be provided as specified in the bus body code	(Yes/No)
6.18 . .	Standee passenger area: Note: Standee passenger area to be determined and provided as specified in the bus body code.	(Yes/No)
6.19	Designed seating and standee passenger capacity:	(Yes/No)

.	Note: Enclose a sheet indicating calculations of the seating and standing passenger capacity based on the procedure specified in the bus body code along with layout of seats and standees area.	
6.20	Public information system (audio/visual /audio visual):	(Yes/No)
.		
6.21	Materials used for body insulation	(Yes/No)
.		
6.22	Type approval of rear view mirrors	(Yes/No)
.		
6.23	Wind screen wiping system and driver field of vision: Type approval details of the wiping system components Note: 1. Wind screen wiping system and driver field of vision to be provided in accordance with requirements specified in the bus body code. 2. Installation performance compliance to be submitted.	(Yes/No)
.		
6.24	Pad material: Note: Pad material specified in bus body code, or superior to that specified, to be provided.	(Yes/No)
.		
6.25	Protection against fire risk:	(Yes/No)
.		
6.26	First aid equipment:	(Yes/No)
.		
6.27	Measured values of interior noise level:	(Yes/No)
.		
6.28	Body structure strength:Enclose compliance report details	(Yes/No)
.		
6.29	Bus structure stability:Enclose compliance report details	(Yes/No)
.		
6.30	Doors: Enclose compliance report details of hinges and door handles. Note: Door structures, door hinges, door handles and ethylene propylene Diene monomer (EPDM) rubber sealing shall be provided as specified in the bus body code.	(Yes/No)
.		
6.31	Enclose compliance report details in respect of door components:	(Yes/No)
.		
Lighting signaling and indicating system:		(Yes/No)
6.32	a) Type approval details of external lighting and signaling devices: b) Installation details of external lighting and signaling devices: c) Details of internal lighting: Indicate position of illumination devices, types of bulbs, photometric requirement, dash board tell-tale lighting and control lighting, driver cabin lighting, passenger compartment lighting and other area lighting	(Yes/No)
.		
Electrical equipment and wiring		(Yes/No)
6.33	Enclose documents to establish compliance in respect of electrical cables, fuses, terminal, connector and elements: Note: Electrical cables, fuses, terminal, connector and elements to be provided as per the requirements specified in the bus body code.	(Yes/No)
.		
6.34	Details of electrical circuit safety: Enclose documents to establish compliance to the requirements specified in the bus body code	(Yes/No)

Self-Declaration

This is to certify that-

- (a) the body/structure of the above vehicle has been fabricated by us and the same complies with the requirements of AIS:052 (Rev 1) as amended from time to time and all the provisions of the Motor Vehicles, Act, 1988 and the rules made there under;
- (b) no alteration of chassis, its aggregates or components has been carried out.”.

Signature of the body builder
Seal of the body builder.”.

FORM 23 – Omitted

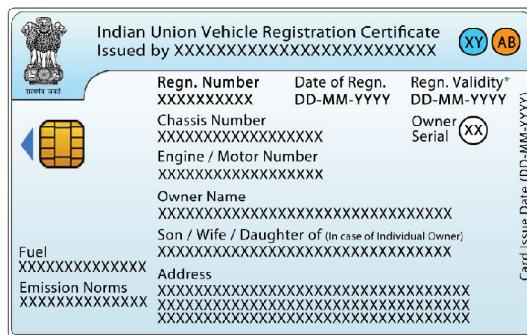
[vide G.S.R No. 174(E) Dated 01-03-2019 w.e.f 01.10.2019]

FORM 23-A

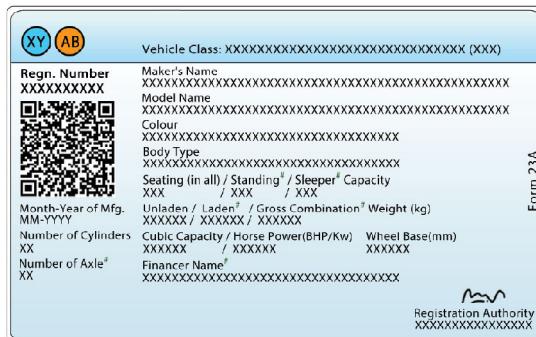
(See rule 48)

Certification of registration (laminated card without chip or smart Card)
Visual inspection zone.

A.The design of the card on the front side shall include the following data fields in visual form –

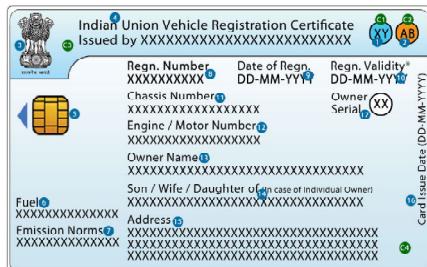


B.The design of the card on the reverse side shall include the following data fields in visual form

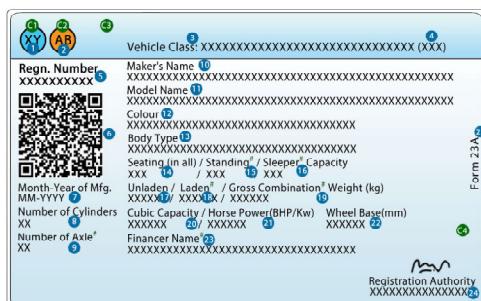


C. The details of the features on the card shall be as under, namely:-

A. For front side:



C. For reverse side



2. Specifications.-

(a) Card Size - 85.6mm x 54.02 mm +/- 2 mm; Thickness minimum 0.7 mm

- (i) Card in the form of either laminated card type without chip; or as per the defined template in the form of ICC (Integrated Circuit Card) compliant to ISO/IEC 7816-Part 1, 2, 3, 4, 8 and 9, IS16695 (Part 1: 2018) Smart Card Template Architecture Part 1: Basic Command Set (commonly known as SCOSTA Contact Smart Card);
- (ii) PICC (Proximity Integrated Circuit Card) if provided, compliant to ISO/IEC 14443-Part 1, 2 3 and 4, ISO/IEC 7816-Part 4, 8 and 9, IS16695 (Part 1: 2018) Smart Card Template Architecture Part 1: Basic Command Set (commonly known as SCOSTA Contactless Smart Card), with card dimensions compliant to ISO/IEC 7810 ID-1 Standard.

(b) Font Style and Size specifications

Front Side				Reverse Side			
Sr. No	Features	Font Name	Size	Sr. No	Features	Font Name	Size
. 1	Category (NT/TR)-XY	Myriad Pro Regular	7pt	1.	Category (NT/TR)-XY	Myriad Pro Regular	7pt
2.	State / UT Code-AB	Myriad Pro Regular	7pt	2.	State / UT Code-AB	Myriad Pro Regular	7pt
3.	Golden National Emblem	Symbol	7.37 mmx 12.28 mm	3.	Vehicle Class	Myriad Pro Regular	6pt
4.	Card Header	Myriad Pro	8pt	4.	Vehicle Type	Myriad Pro	6pt

		Bold			(e.g.LMV/ HMV/HGV etc)	Regular	
5.	IC Chip (if opted for)	NA	NA	5.	Registration Number	Myriad Pro Regular	6pt
6.	Fuel	Myriad Pro Regular	7pt	6.	QR Code (As specified by the Central Government)	NA	5 mm x 15m m
7.	Emission Norms	Myriad Pro Regular	7pt	7.	Month & Year of Mfg.	Myriad Pro Regular	5.5pt
8.	Registration Number	Myriad Pro Bold	7pt	8.	Number of Cylinders	Myriad Pro Regular	5.5pt
9.	Date of Registration	Myriad Pro Bold	7pt	*[9 .	Number of Axle/Number of axle rows (in case of modular hydraulic trailers)	Myriad Pro Regular	5.5pt]
10.	Registration Validity* (to be printed "As per Fitness" for Transport/Commercial vehicle)	Myriad Pro Bold	7pt	10.	Maker's Name	Myriad Pro Regular	5.5pt
11.	Chassis Number	Myriad Pro Regular	7pt	11.	Model Name	Myriad Pro Regular	5.5pt
12.	Engine /Motor Number	Myriad Pro Regular	7pt	12.	Colour	Myriad Pro Regular	5.5pt
13.	Owner Name	Myriad Pro Regular	7pt	13.	Body Type	Myriad Pro Regular	5.5pt
14.	Son/ Daughter/ Wife of (in case of Individual Owner)	Myriad Pro Regular	7pt	14.	Seating (in all)Capacity	Myriad Pro Regular	5.5pt
15.	Address	Myriad Pro Regular	7pt	15.	Standing Capacity#	Myriad Pro Regular	5.5pt
16.	Card Issue Date	Myriad Pro Regular	6pt	16.	Sleeper Capacity#	Myriad Pro Regular	5.5pt
17.	Owner Serial	Myriad Pro Regular	7pt	17.	Unladen Weight (kg)	Myriad Pro Regular	5.5pt
				*[18.	Laden weight/ Module Weight (kg) (in case of modular hydraulic trailers)	Myriad Pro Regular	5.5pt]
				19.	Gross Combination Weight# (kg)	Myriad Pro Regular	5.5pt
				20.	Cubic Capacity	Myriad Pro Regular	5.5pt

	(Kw)		
21.	Horse Power (BHP)	Myriad Pro Regular	5.5pt
22.	Wheel Base (mm)	Myriad Pro Regular	5.5pt
23.	Financer name#	Myriad Pro	5.5pt
24.	Registering Authority's Name	Myriad Pro	5.5pt
25.	Form 23A	Myriad Pro Regular	6pt

: Both Label and Value would be blank in cases where they are not applicable or have not been opted for

(c) Background Colour Details

Front Side			Reverse Side		
Sr.No	Hex Code	Print colour	Sr.No.	Hex Code	Print colour
C1.	#f8951d	C: 0 M: 49 Y: 100 K:0	C1.	#ddf1fa	C:12 M: 1 Y:1 K:0
C2	Gradient Color Top: #e7f5f5 Bottom:#a3daf7	Gradient Color Top:C:8M: 0 Y:3 K:0 Bottom:C:33 M:1 Y:0 K:0	C2	Gradient Color Top: #e7f5f5 Bottom:#a3daf7	Gradient Color Top: C:8 M: 0 Y:3 K:0 Bottom:C:33 M:1 Y:0 K:0
C3.	#edf8fc	C:6 M: 0 Y:1 K:0	C3.	#edf8fc	C:6 M: 0 Y:1 K:0

MACHINE READABLE ZONE (applicable only if opted for Smart Card)

The concerned State Governments shall provide the following features of the licence in the Machine Readable Zone, namely:-

Sr. No.	Field
1.	Registration Details : Registration Number Registration Date (in ddmmyyyy format) Purchase Date (in ddmmyyyy format) Registration Type (N, A, O, D) Registration Validity (in ddmmyyyy format) (To be stored "As per Fitness" for Transport / Commercial vehicle) Dealer Name Registering Authority Name
2.	Personal Details : Owner Name Son/Wife /Daughter of (if Individual) Owner Current Address Owner Permanent Address Owner Serial No. Ownership Type
3.	Vehicle Details : Vehicle Class Maker/Manufacturer Model

	No. of Cylinder Horse Power (format 99999.99) Seating Capacity Standing Capacity Sleeper Capacity Unladen Weight (kg) Laden Weight (kg) Gross Combination Weight, if applicable (kg) Wheelbase (mm) Cubic Capacity (format 99999.99) Floor Area (sq m) (format 999.999) Fuel Chassis No Engine No Body Type Colour Manufacturing Month & Year (mmYYYY) Sale Amount Emission Norms Height (mm) Length (mm) Width (mm) AC Fitted (Y/N) Video Fitted (Y/N) Audio Fitted (Y/N)
4.	Axle Details of Transport Vehicle : Number of Axle Number of Tyre – Front Axle Number of Tyre – Rear Axle Number of Tyre – Tandem Axle Number of Tyre – Other Axle Front Axle (Description and Size of Tyre) Rear Axle (Description and Size of Tyre) Tandem Axle (Description and Size of Tyre) Other Axle (Description and Size of Tyre) Front Axle Weight (kg) Rear Axle Weight (kg) Tandem Axle Weight (kg) Other Axle Weight (kg) Overhang Rearhang
5.	Additional Details of Attached Trailer / Semi-Trailer (if applicable) : Number of attached Semi-Trailers Attached Trailer(s) Registration Mark
6.	Additional Details of Linked Horse Vehicle No. (if this RC is of Semi-Trailer/Trailer) : Horse Vehicle Registration Mark, if applicable
7.	Hypothecation Details*3 : Name of Financier
8.	Challan Details*40 : Challan No. Accused category (D – Driver, C – Conductor, O – Owner) Section (s) (code only with delimiter „, „, if more than 1) Challaning Officer Name Location

	Challan Date & Time in ddmmYYYY /hh-mm format
	Disposing Officer Name
	Penalty
	Receipt No.
9.	Permanent Permit Details :
	Permit Number
	Permit Type (Description)
	Permit Issuing Authority Name
	Validity From (in ddmmYYYY format)
	Validity Up to (in ddmmYYYY format)
	Replacement Date (in ddmmYYYY format)
	Area (e.g. Local, Distt, Region, State etc.)
	Route From
	Route Up to
	Stages
	Route Length (km)
	Number of Trips per day
10.	Details of alternative or additional Semi-Trailer(s) registered with an articulated vehicle
	(Registration No same as articulated vehicle) :
	Body Type
	Unladen Weight (kg)
	Laden Weight (kg)
	Chassis No
	Front Axle (Number, Description and Size of Tyre)
	Rear Axle (Number, Description and Size of Tyre)
	Tandem Axle (Number, Description and Size of Tyre)
	Other Axle (Number, Description and Size of Tyre)
	Front Axle Weight (kg)
	Rear Axle Weight (kg)
	Tandem Axle Weight (kg)
	Other Axle Weight (kg)
11.	Retro Fitting Details :
	Kit Manufacturer
	Kit Type
	Kit Workshop
	Kit Serial Number
	Kit PUCC Norms
	Workshop License No
	Fitment Date (in ddmmYYYY format)
	Hydro Test Date (in ddmmYYYY format)
	Cylinder Serial Number .";

* Substituted vide G.S.R No. 806(E) dated 23-10-2019, (w.e.f 23-10-2019)

FORM 24

[See rule 49]

REGISTER OF MOTOR VEHICLE

Description of registration of motor vehicle		Particulars of registered owner on registration/transfer of ownership/change of Address of motor vehicle		Particulars of agreement of hire-purchase, lease and hypothecation		Entries relating to the certificate of registration		Remarks
Particulars	Details	Full Name, Son/wife/daughter of, Present Address	Specimen signature	Note and cancellation of an endorsement or thumb-impression of such agreement with Financier, full name and address of the Financier, , attested by Registering Authority	Specimen signature or thumb-impression of the Financier, and attested by Registering Authority	Such as suspension/cancellation, issue of duplicate (to the Registered Owner)/fresh (to the Financier); and exemption granted, N.O.C. issued, vehicle removed to other Dist./State, Alteration of vehicle		
1	2	3	4	5	6	7	8	
1. Registration No. 2. Date of registration 3. Name of the owner son/wife/daughter of Full address (Permanent) (Temporary) *Mobile number of the owner 4. Dealers name and address								

5. Particulars of previous registration number, viz.

- (a) The name of the Registering Authority
- (b) Registration Number assigned
- (c) Date of expiry of registration
- (d) Whether held under HP/Lease & Hypothecation
- (e) If so, particulars of Financier, etc.

6. The motor vehicle is

- (a) new
- (b) ex-army
- (c) imported

⁴⁵[7. Class of vehicle (if motor cycle, with gear or without gear)]

8. Makers name

9. Type of body

10. Month and year of manufacture

11. No. of Cylinders

12. Classes No. Affix pencil print and to be attested by the Registering Authority

13. [Engine number or motor number in the case of Battery Operated Vehicles]

14. Fuel used in engine

15. Horse power

16. Cubic capacity

17. Makers classification

18. Wheel base

19. Seating capacity including driver

20. Colour or colours of body, wings, front end

21. Unladen weight

22. Gross vehicle weight

(i) as certified by the manufacturer

(ii) as registered

23. Additional particulars in case of transport vehicle other than motor cabs.

1. No. description and size of tyres,

Front axle

Rear axle

Any other axle

Tandem axle.

2. Registered axle weight

Front axle..... kg.

Rear axle.....kg.

Any other axle..... kg.

Tandem axle..... kg.

24. Additional particulars of alternatives or additional trailer or semi-trailers registered with an articulated vehicle

1. Type of body

2. Unladen weight

3. Number and description and size of tyre on each axle

4. Registered axle weight in respect of each vehicle

25. Insurance certificate/ Cover Note no..... dated..... vehicle valid forum.....
to..... issued by..... (Name and address of the insurance company)

26. Rate of motor vehicle tax.

27. Validity of registration from..... to..... renewal from..... to

28. Name and designation of the Inspecting Officer who certified the vehicle as fit for registration

29. Name and designation and signature of the Registering Authority

Note: Specimen signature of the registered owners and financiers pasted in columns 4 & 6, respectively, shall be attested with office seal by the Registering Authority in such a manner that the part of impression of seal or stamp and attestation shall fall upon each signature.]

* *Inserted vide G.S.R No. 178(E) dated 16-03-2020, (w.e.f 01-04-2020)*

FORM 25

[See rule 52(1)]

FORM OF APPLICATION FOR RENEWAL OF CERTIFICATE OF REGISTRATION OF A MOTOR VEHICLE, OTHER THAN A TRANSPORT VEHICLE

To

The Registering Authority,

.....
.....

I..... hereby apply for the renewal of the certificate of registration [**having Mobile Number*] which is attached, the particulars of which are as follows:

(a) Registered No.
(b) Date of issue
(c) Date of expiry
(d) Registering Authority by which the certificate was issued/last renewed

My present address is..... If this address is not entered in the certificate of registration, I do/do not wish that it should be so entered. The renewal of the certificate has not been refused by any Registering Authority.

I hereby declare that the certificate of registration has not been cancelled or suspended by any Registering Authority.

1.	Class of vehicle
2.	The motor vehicle was registered as
	(a) A new vehicle
	(b) Ex-army vehicle
	(c) imported vehicle
3.	Type of body
4.	Maker's name
5.	Month and year of manufacture
6.	Number of cylinders
7.	Cubic capacity/Horse power
8.	Maker's classification
9.	Chassis No.-Affix pencil print
10.	[Engine number or motor number in the case of Battery Operated Vehicles].
11.	Seating capacity (including driver)
12.	Unladen weight
13.	Fuel used

I enclose the certificate of insurance for perusal and return.

I have paid the fee of Rs.....

Date:.....

[Signature or thumb-impression of the applicant]

Note: The motor vehicle above described is not subject to an agreement of hire-purchase, lease or hypothecation.

The vehicle is:

*(i) Subject to hire-purchase agreement/lease agreement with.....

*(i:) Subject to hypothecation in favour of.....

"Strike out whichever is inapplicable

[Signature or thumb-impression of the registered owner]

[Specimen signature or thumb-impression of the registered owner:]

- 1.
- 2.
- 3.

CERTIFICATE

Inspected the vehicle-verified the chassis number and engine number.

Certified that the particulars contained in the application and the corresponding particulars declared in the certificate of registration of the vehicle are true and that the vehicle complies with the requirements of the Motor Vehicles Act, 1988, and the Rules made thereunder.

Signature of the Inspecting Authority

Name.....

Designation.....

* *Inserted vide G.S.R No. 178(E) dated 16-03-2020, (w.e.f 01-04-2020)*

FORM 26

[See rule 53]

APPLICATION FOR THE ISSUE OF DUPLICATE CERTIFICATE OF REGISTRATION

(To be made in duplicate if the vehicle is held under an agreement of hire-purchase/lease/hypothecation and in triplicate if the Original Registering Authority is different, the duplicate copy and the triplicate copy with the endorsement of the Registering Authority to be returned to the Financier and Registering Authority simultaneously on issue of duplicate certificate)

To

The Registering Authority

.....
The certificate of registration of my/our motor vehicle, the registration mark of which is..... has been lost/destroyed/completely written off/soiled/torn/mutilated in the following circumstances.

.....
.....
.....
. *I/We hereby declare that to the best of my/our knowledge the registration of the vehicle has not been suspended or cancelled under the provisions of the Act or Rules made thereunder and the circumstance, explained above are true.

I/We do hereby apply for the issue of a duplicate certificate of registration.

The written off/soiled/torn/mutilated Certificate of Registration is enclosed.

The vehicle is not held under any agreement of hire-purchase/lease/hypothecation. The vehicle is also not supercdari and free from all encumbrances.

I/We hereby declare that I/We on..... (date) have filed a complaint (copy enclosed) w i t h the police about the loss of Certificate of Registration immediately after the loss has been noticed. *[*My/Our mobile number is*]

Date:.....

Signature/thumb-impression of Applicant

*Strike out whichever is inapplicable.

The vehicle is held under hire-purchase/lease/hypothecation agreement with..... and the "No Objection Certificate" has been granted/refused by the Financier hereunder: [Where No Objection Certificate" is refused, applicant shall make a declaration as required under sub-section (8) of section 51.

Signature or thumb-impression of the Owner

Name.....

Full address.....

Date.....

Note:-(1) Full particulars of the circumstances shall be furnished in the case of loss or destruction of the Registration Certificate.

(2) Strike out whichever is inapplicable.

**CONSENT OF THE FINANCIER FOR GRANT OF "NO OBJECTION CERTIFICATE"
UNDER SECTION 51(6)**

I/We being a party to an agreement of hire-purchase/lease/hypothecation in respect of motor vehicle specified above:

(1) have "No Objection" in issue of the duplicate certificate of registration of the said vehicle.

(2) have "Objection" in issue of the duplicate registration certificate of the said vehicle, for the reasons

Given hereunder.....

.....
.....

Signature of the Financier

Date.....

OFFICE ENDORSEMENT

Ref. Number..... Office of the.....A duplicate certificate of registration as requested above is issued with the note of agreement of hire

purchase/lease/hypothecation on..... and is noted in the original registration records in Form 24.

Signature of the Registering Authority

Date.....

To.....

The Financier

The Registering Authority.....

(To be sent to both the above parties by registered post acknowledgement due)

Specimen signature or thumb-impression of the Registered Owner and Financier are to be obtained in original application for affixing and attestation by the Registering Authority with the Office seal in Forms 23 and 24 in such a manner that the part of impression of seal or a stamp and attestation shall fall upon each signature.

Specimen signature of the Financier	Specimen signature of the Registered Owner
1.	1.
2.	2.

* Inserted vide G.S.R No. 178(E) dated 16-03-2020, (w.e.f 01-04-2020)

FORM 27

[See rule 54]

APPLICATION FOR ASSIGNMENT OF NEW REGISTRATION MARK TO A MOTOR VEHICLE

(To be made in triplicate if the vehicle is held under an agreement of hire-purchase/lease/hypothecation and in duplicate copy and the triplicate copy with endorsement of the Registering Authority to be returned to the Financier and Original Registering Authority simultaneously, on the assignment of a new registration mark).

To

The Registering Authority,

I/We.....son/wife/daughter of.....being the Registered Owner of Motor Vehicle No..... bearing Chassis No..... [Engine number or motor number in the case of Battery Operated Vehicles] Type of vehicle..... Registered in the State of..... hereby declare that I/We have, since the..... day of..... kept the said motor vehicle in this State and hereby apply for the assignment of a new registration mark to the said motor vehicle.

I/We hereby declare that the registration is valid up to..... and it has not been suspended or cancelled under the provisions of this Act.

I/We enclose the certificate of registration and the certificate of fitness (*) of this motor vehicle.

I/We enclose a "No Objection Certificate" from the Registering Authority.

If the "No Objection Certificate" from the Registering Authority is not enclosed the applicant should file along with this application a declaration as required under the first proviso to sub-section (1) of section 47.

*The vehicle is not subject to an agreement of hire-purchase/lease/hypothecation.

The vehicle is subject to an agreement of hire-purchase/lease/hypothecation with..... and the NOC has been granted/refused by the Financier thereunder.

If "No Objection Certificate" has been refused by the Financier, the applicant should file along with this application a declaration as required under sub-section (8) of section 51.

**[*My/Our mobile number is*]

Date.....

Signature or thumb-impression of the Applicant

*Strike out whichever is inapplicable.

**CONSENT OF THE FINANCIER FOR GRANT OF "NO OBJECTION
CERTIFICATE" UNDER SECTION 51(6)**

I/We, being a party to an agreement of hire-purchase/lease/hypothecation in respect of motor vehicle specified above:

- (1) have "No Objection" in assigning the new Registration mark to the said Vehicle
(2) have "Objection in assigning the new Registration mark to the said Vehicle for the reasons given hereunder.....

Date.....

Signature of the Financier

OFFICE ENDORSEMENT

Ref. Number.....Office of the.....

The Vehicle No..... on removal to this State has been assigned a new Registration mark..... (here enter the Registration mark).

Date.....

Signature of the Registering Authority

To

The

Financier.....

.....
The Registering Authority.....

(to be sent to both the above parties by registered post acknowledgement due).

** Inserted vide G.S.R No. 178(E) dated 16-03-2020, (w.e.f 01-04-2020)

FORM 28

[See rules 54,58(1), (3) and (4)]

APPLICATION AND GRANT OF NO OBJECTION CERTIFICATE

(To be made in quadruplicate if the vehicle is held under an agreement of hire-purchase/lease/hypothecation and in duplicate copy, the triplicate copy and the quadruplicate copy with the endorsement of the Registering Authority to be returned to the Registered owner of the vehicle, the Registering Authority in whose jurisdiction the vehicle is to be removed and the Financier simultaneously on grant/refusal of a 'No Objection Certificate')

PART I-APPLICATION

To

The Registering Authority,

I/We intend to transfer the vehicle to the jurisdiction of the Registering Authority
I/We intend to sell the vehicle to Shri/Smt./Kumari.....
who resides in the jurisdiction of the Registering Authority..... of
I/We, therefore, request for the issue of a No Objection Certificate for my/our vehicle,
the particulars of which are furnished below:

1.	Name and address
2.	Son/wife/daughter of
[2a.]	<i>Mobile number of the owner of the vehicle</i>
3.	Registration number of the vehicle
4.	Class of vehicle
5.	Registering Authority which originally registered the vehicle
6.	53 [Engine number or motor number in the case of Battery Operated Vehicles]
7.	Chassis number (Affix also pencil print)
8.	Period of stay in the State
9.	Period up to which motor vehicle tax has been paid
10.	Whether any demand for tax is

	pending, if so, give details	
11.	Whether the vehicle is involved in any theft cases, if so, give details
12.	Whether any action under section 53, 54 or 55 of the Motor Vehicles Act, 1988 is pending before any Registering Authority or other prescribed authority, if so, give details
13.	Whether the vehicle is involved in any case of transport of prohibited goods, if so, give details
14.	Whether the vehicle is held under an agreement of hire-purchase/lease/hypothecation, if so, give full name and address of the Financier]
	We solemnly declare that the above statement is true.	

Date.....

Signature or thumb-impression of Registered Owner

PART II - CONSENT OF THE FINANCIERS IN THE CASE OF MOTOR VEHICLE SUBJECT TO AN AGREEMENT

I/We being a party to an agreement of the hire-purchase/lease/hypothecation in respect of the above said vehicle hereby

1. Give consent to issue the No Objection Certificate for the said vehicle only for the purpose referred above.
 2. Refuse to give consent for issue of No Objection Certificate for the said vehicle due to the reasons furnished hereunder:
-

Date.....

Signature of the Financier

PART III - OFFICE ENDORSEMENT

(GRANT/REFUSAL OF "NO OBJECTION CERTIFICATE" UNDER SECTION 48(3) OF MOTOR VEHICLES ACT, 1988)

- (1) No Objection Certificate in respect of the vehicle, the detailed particulars whereof are recorded over above is hereby granted under section 48(3) of the Motor Vehicles Act, 1988 (valid for use at the Registering Authority, on whom it is issued)

(2) No Objection Certificate in respect of the motor vehicle, the detailed particulars whereof recorded over above is hereby refused under section 48(3) of the Motor Vehicles Act, 1988, for the reasons recorded as under:.....

Date.....

Signature with seal of Registering Authority

Address.....

"Strike out whichever is inapplicable.

To

The Registered Owner.....

The Financier.....]

* Inserted vide G.S.R No. 178(E) dated 16-03-2020, (w.e.f 01-04-2020)

FORM 29

[See rule 55(1)]

NOTICE OF TRANSFER OF OWNERSHIP OF A MOTOR VEHICLE

(To be made in duplicate and the duplicate copy with the endorsement of the Registering Authority to be returned to the transferor immediately on making entries of transfer of ownership in Certificate of Registration and Form 24).

To

The Registering Authority..... (in whose jurisdiction the Transferee resides) I/We..... resident of..... have on the..... day of the year..... sold and delivered my/our Vehicle No..... make..... Chassis No..... [Engine number or motor number in the case of Battery Operated Vehicles]..... to Shri/Smt..... (Name) son/wife/daughter of..... residing at..... (House No./Street/Village/Town/Distt. and State) under an agreement of hire-purchase/lease/hypothecation with..... The Registration Certificate and Insurance Certificate have been handed over to him/her/them.

To the best of my/our knowledge and belief the vehicle is not superdari and free from all encumbrances and information furnished is true. I/We undertake to hold my/our self responsible for any inaccuracy or suppression of information.

Signature of the Financier
(to give his consent)

Date.....

Signature or thumb-impression
of the Registered Owner(Transferor)

Date.....

Copy to: The Registering Authority..... in whose jurisdiction the transferor resides.

Note:-To be sent to the Registering Authority by registered post acknowledgement due.....

OFFICE ENDORSEMENT

Ref. No..... Office of the..... The ownership of the vehicle has been transferred to the name of..... with the note of the above said agreement with effect from..... (date)
Date.....

Signature of the Registering Authority
with Office Seal.

*Strike out whichever is inapplicable.

FORM 30

[See rule 55(2) and (3)]

APPLICATION FOR INTIMATION AND TRANSFER OF OWNERSHIP OF A MOTOR VEHICLE

(To be made in duplicate if the vehicle is held under an agreement of hire-purchase/lease/hypothecation. The duplicate copy with the endorsement of the Registering Authority to be returned to the Financier simultaneously on making the entry of the transfer of ownership in the certificate of registration and registration record in Form 24).

To

The Registering Authority.....

PART I-FOR THE USE OF THE TRANSFEROR

Name of the Transferor..... son/wife/daughter of..... Full address..... I/We hereby, declare that I/We have on this..... day of the year..... sold my/our motor vehicle bearing Registration mark..... to Shri/Smt..... son/wife/daughter of..... residing at..... (full address) and handed over the Certificate of Registration and the Certificate of Insurance to him/her/them.

I/We hereby declare that to the best of my/our knowledge the Certificate of Registration of the vehicle has not been suspended* or cancelled.

*I enclose the "No objection certificate" issued by the Registering Authority.

**If the "No objection certificate" issued from the Registering Authority is not enclosed, the transferor should file along with this application a declaration as required under sub-section (1) of section 50.

Date.....

Signature or thumb-impression of the Transferor

*Details of suspension or cancellation.

**Strike out whichever is inapplicable.

PART II-FOR THE USE OF THE TRANSFeree

Name of the Transferee.....
son/wife/daughter of..... Age..... Full address..... (Proof
of address to be enclosed) ***[Mobile number].

I, hereby declare that I/We have on this..... day of the year.....
purchased the motor vehicle bearing registration number.....
from..... (name and full address) and request that necessary entries
regarding the transfer of ownership of the vehicle in my/our case may be recorded in the
certificate of registration/certificate of fitness of the vehicle, which is enclosed.

The Certificate of Insurance is also enclosed. To the best of my knowledge and belief
I/We have not suppressed any facts and information furnished is true. The vehicle is not
superdari and free from all encumbrances. I/We undertake to hold myself/ourselves
responsible for any inaccuracy of the information.

Date.....

Signature or thumb-impression of the Transferee

CONSENT OF THE FINANCIER IN THE CASE OF MOTOR VEHICLE SUBJECT TO AN AGREEMENT OF HIRE-PURCHASE/LEASE/HYPOTHECATION

I/We being a party to an agreement of hire-purchase/lease/hypothecation in respect of
motor vehicle specified above, give consent to the transfer of ownership of the said
motor vehicle in the name of the Transferee named above, with whom I/We have
entered into an agreement of hire-purchase/lease/hypothecation.

(Full name and address of the Financier)

Signature of the Financier

Date.....

Date.....

OFFICE ENDORSEMENT

Ref. No..... Office of the..... The transfer of ownership of
vehicle under continuation of an endorsement of hire-purchase/lease/hypothecation
agreement has been recorded with effect from..... in the
Registration Certificate of the vehicle..... and in the Registration
record of this office in Form 24.

Date.....

Signature of the Registering Authority

To

The Transferor.....

The Financier

(To be sent to both the above parties by registered post acknowledgement due)

Specimen signature or thumb-impression of the Registered Owner and the Financier are to be obtained in the original application for affixing and attestation by the Registering Authority with the office seal in Forms 23 and 24, in such manner that the part of impression of seal or stamp and attestation shall fall upon each signature.

Specimen signature of the Financier	Specimen signature of the Registered Owner
1.	1.
2.	2.

*** Inserted vide G.S.R No. 178(E) dated 16-03-2020, (w.e.f 01-04-2020)

FORM 31

[See rule 56(2)]

APPLICATION FOR TRANSFER OF OWNERSHIP IN THE NAME OF THE PERSON SUCCEEDING TO THE POSSESSION OF THE VEHICLE

(To be made in duplicate if the vehicle is held under an agreement of hire-purchase/lease/hypothecation and duplicate copy with the an endorsement of the Registering Authority to be returned to the Financier simultaneously on making the entry of Transfer of ownership in the certificate of registration and office record in Form 24).

To

The Registering Authority,

1.	Vehicle Registration No.
	Make and model
	Chassis No.
	[Engine number or motor number in the case of Battery Operated Vehicles]
	Type of vehicle
2.	Name of the deceased registered owner
3.	Name and age of the person succeeding to the possession of the vehicle son/wife/daughter of
	Full postal address (proof of address to be enclosed)

4.	Relationship with the deceased registered owner
5.	Proof of his succession
**[6]	Mobile number of the new owner

Certificate of registration is enclosed herewith. Kindly transfer the ownership of the vehicle in my name.

Date.....

Signature of the Applicant

CONSENT OF THE FINANCIER IN THE CASE OF MOTOR VEHICLE HELD UNDER ANY OF THE AGREEMENTS

I/We being a party to an agreement of hire-purchase/lease/hypothecation in respect of the motor vehicle specified above, consent to the transfer of ownership of the said motor vehicle in the name of the applicant named above, with whom I/We have entered into an agreement of hire-purchase/lease/hypothecation.

.....
.....
.....

(Full name and address of the Financier)

Signature of the Financier

Date.....

OFFICE ENDORSEMENT

Ref. Number..... Office of the.....

The transfer of ownership of the motor vehicle under continuation of an endorsement of hire-purchase/lease/hypothecation agreement has been recorded with effect from.....in the certificate of registration of the vehicle and the registration record of this in office Form 24.

Date.....

Signature of the Registering Authority

*Strike out whichever is inapplicable.

To

The Financier

.....

(To be sent by registered post acknowledgement due)

Specimen signature or thumb-impression of the Registered Owner and Financier are to be obtained in original application for affixing and attestation by the Registering Authority with office seal in Forms 23 and 24, in such a manner that the part of impression of seal or stamp and attestation shall fall upon each signature:

Specimen signature of the Financier	Specimen signature of the Registered Owner
1.	1.
2.	2.]

** Inserted vide G.S.R No. 178(E) dated 16-03-2020, (w.e.f 01-04-2020)

FORM 32

[See rule 57(1)]

APPLICATION FOR TRANSFER OF OWNERSHIP IN CASE OF A MOTOR VEHICLE PURCHASED OR ACQUIRED IN PUBLIC AUCTION

To

The Registering Authority,

.....
I/We..... son/wife/daughter
of.....
have..... (full address along with proof)
purchased or acquired the Vehicle No..... bearing Chassis
No..... [Engine number or motor number in the case of Battery
Operated Vehicles]..... make..... model..... type of
vehicle. in public auction conducted by or on behalf of the Government.

I/We enclose the documents required to be submitted by me/us under sub-rule (1) of rule 57.

*[My/Our mobile number is,]

The ownership of the motor vehicle may kindly be transferred to my/our name.

Date.....

[Signature or thumb-impression of the applicant]

* Inserted vide G.S.R No. 178(E) dated 16-03-2020, (w.e.f 01-04-2020)

FORM 33

[See rule 59]

INTIMATION OF CHANGE OF ADDRESS FOR RECORDING IN THE CERTIFICATE OF REGISTRATION AND OFFICE RECORDS

(To be made in triplicate if the vehicle is held under an agreement of hire-purchase/lease/hypothecation, the duplicate copy and the triplicate copy with the endorsement of the Registering Authority to be returned to the Financier and the

Registering Authority (from whose jurisdiction the vehicle is removed) simultaneously, on making the entry of change of address in the Certificate of Registration and Form 24).

To

THE REGISTERING AUTHORITY,

.....
I/We..... Son/wife/daughter of..... (full address) Registered Owner of motor vehicle No..... have ceased to reside, do not have the place of business at the address recorded in the Certificate of Registration with effect from..... The present address is given below (evidences to be enclosed).....

****[My/Our mobile number is**

The vehicle is not held under any agreement of hire-purchase/lease/hypothecation.

The vehicle is held under an agreement of hire-purchase/lease/hypothecation with.....

The certificate of registration is enclosed. I/We request that the change of address may be recorded in the certificate of registration and Form 24.

Date.....

Signature or thumb-impression of the
Registered Owner of the vehicle

*Strike out whichever is inapplicable.

CONSENT OF THE FINANCIER IN THE CASE OF MOTOR VEHICLE HELD UNDER AN AGREEMENT

I/We being a party to an agreement of hire-purchase/lease/hypothecation in respect of the above said vehicle, hereby:

1. Give consent for effecting the above change of address with the note of an agreement in my/our favour in Forms 23 and 24 by the Registering Authority.
 2. Refuse to give consent for effecting the above change of address by the Registering Authority, due to the reasons furnished hereunder:
-

Date.....

Signature of the Financier

OFFICE ENDORSEMENT

Ref. Number.....

Office of the.....

The above change of address has been entered with the note of agreement of hire-purchase/lease/hypothecation in favour of the Financier in the certificate of registration and in Form 24.

Date.....

Signature of the Registering Authority

To

The Financier.....

The Registering Authority.....

(To be sent to both the parties by registered post acknowledgement due)

Specimen signature or thumb-impression of the Registered Owner and the Financier are to be obtained in original application for affixing and attestation by the Registering Authority with official seal in Forms 23 and 24 in such a manner that the part of impression of the seal or a stamp and attestation shall fall upon each signature:

Specimen signature of the Financier	Specimen signature of the Registered Owner
1.	1.
2.	2.

** *Inserted vide G.S.R No. 178(E) dated 16-03-2020, (w.e.f 01-04-2020)*

FORM 34

[See rule 60]

APPLICATION FOR MAKING AN ENTRY OF AN AGREEMENT OF HIRE-PURCHASE/LEASE/HYPOTHECATION SUBSEQUENT TO REGISTRATION

(To be made in duplicate and in triplicate where the Original Authority is different, the duplicate copy and the triplicate copy with the endorsement of the Registering Authority to be returned to the Financier and the Registering Authority simultaneously on making the entry in the certificate of registration and Form 24).

To

The Registering Authority,

.....
The motor vehicle bearing registration number..... is the subject of an agreement of hire-purchase/lease/hypothecation between..... the registered owner/person to be registered as owner *and.....

(fill the name and full address of the financier)

We request that an entry of the agreement be made in the certificate of registration and the relevant records in your office.

***[My/Our mobile number is]**

The certificate of registration together with the fee is enclosed.

Date.....

Signature or thumb-impression of the Registered owner

Date..... Signature of the Financier

*Strike out whichever is inapplicable.

OFFICE ENDORSEMENT

Ref. Number..... Office of the.....

The entry of the agreement of hire-purchase/lease/hypothecation as requested above is recorded in this office registration record in Form 24 and certificate of registration on..... (date).

Date.....

Signature of the Registering Authority

To

The Financier.....

The Registering Authority.....

(To be sent to both the above parties by registered post acknowledgement due)

Specimen signature or thumb-impression of the Registered Owner and the Financier are to be obtained in original application for affixing and attestation by the Registering Authority with his office seal in Forms 23 and 24 in such a manner that the part of impression of the seal or a stamp and attestation shall fall upon each signature:

Specimen signature of the Financier	Specimen signature of the Registered Owner
1.	1.
2.	2.]

** Inserted vide G.S.R No. 178(E) dated 16-03-2020, (w.e.f 01-04-2020)

FORM 35

[See rule 61(1)]

NOTICE OF TERMINATION OF AN AGREEMENT OF HIRE-PURCHASE/LEASE/HYPOTHECATION

(To be made in duplicate and in triplicate where the original Registering Authority is different, the duplicate copy and the triplicate copy with the endorsement of the Registering Authority to be returned to the Financier and the Registering Authority simultaneously on making the termination entry in the certificate of registration and Form 24).

To

The Registering Authority,

.....

We hereby declare that the agreement of hire-purchase/lease/hypothection entered into between us has been terminated. We, therefore, request that the note endorsed in the certificate of registration of vehicle No..... in respect of the said agreement between us be cancelled.

****[My/Our mobile number is**

The certificate of registration together with the fee is enclosed.

Date..... Signature or thumb-impression of the Registered Owner

Date..... Signature of the Financier with official seal and address

*Strike out whichever is inapplicable.

OFFICE ENDORSEMENT

Ref. Number.....

Office of the.....

The cancellation of the entry of an agreement as requested above is recorded in this office registration record in Form 24 and registration certificate on.....
(date).

Date..... Signature of the Registering Authority

To

The Financier.....

The Registering Authority.....

(To be sent to both the above parties by registered post acknowledgement due)

Specimen signature or thumb-impression of the Registered Owner and the Financier are to be obtained in original application for affixing and attestation by the Registering Authority with his office seal in Forms 23and 24 in such a manner that the part of impression of seal or stamp and attestation shall fall upon each signature.

*** Inserted vide G.S.R No. 178(E) dated 16-03-2020, (w.e.f 01-04-2020)*

FORM 36

[See rule 61(2)]

APPLICATION FOR ISSUE OF A FRESH CERTIFICATE OF REGISTRATION IN THE NAME OF THE FINANCIER

To

The Registering Authority,

.....

I/We.....(Financier)

taken possession of motor vehicle no..... make..... model

..... owing to the default of the registered owner.....

(name).....(full address)

under the provisions of the agreement of hire-purchase/lease/hypothecation:

*(1) The certificate of registration of the said vehicle is surrendered herewith.

*(2) The registered owner has refused to deliver the certificate of registration to me/us.

*(3) The registered owner is absconding.

I/We request you to cancel the certificate and issue a fresh certificate of registration in my/our name.

I/We enclose a fee of Rs.....

Date.....

Signature of the Financier

Specimen signatures of the Financier:

1.....

2.....

****[My/Our mobile number is]**

Copy to the original registering authority

*Strike out whichever is inapplicable.

*** Inserted vide G.S.R No. 178(E) dated 16-03-2020, (w.e.f 01-04-2020)*

FORM 37

[See rule 61(3)]

NOTICE TO THE REGISTERED OWNER OF THE MOTOR VEHICLE TO SURRENDER THE CERTIFICATE OF REGISTRATION FOR CANCELLATION AND ISSUE OF FRESH REGISTRATION CERTIFICATE IN THE NAME OF THE FINANCIER

(To be made in duplicate and duplicate copy to be sent to the Financier simultaneously on issue of notice) Office of the Registering Authority.....

Ref. Number.....

Date.....

Shri/Smt./Kumari..... (Regd. Owner) is/are hereby informed that..... (Financier) has/have reported that he/they have taken possession of the motor vehicle bearing registration number..... covered by an agreement of hire-purchase/lease/hypothecation, owing to your default under the provisions of the said agreement and that

*(1) You have refused to deliver the certificate of registration to him/her/them.

*(2) You have absconded.

He/she/they have requested to cancel the certificate of registration and issue a fresh certificate of registration in his/her/their name.

You are, therefore, directed to surrender the certificate of registration of the said motor vehicle which has been retained by you inspite of your having lost the possession and thereby the ownership of the motor vehicle under section 2(30) and to send your representation in this regard, if any, to this office within seven days from the date of receipt of this notice by you, failing which a fresh certificate of registration will be issued in the name of the Financier, cancelling the certificate of registration held by you, in accordance with section 51(5).

Date.....

Signature of the Registering Authority

*Strike out whichever is inapplicable

To

The Financier.....

To be sent by registered post acknowledgement due)

FORM 38

[See rule 62(1)]

CERTIFICATE OF FITNESS (APPLICABLE IN THE CASE OF TRANSPORT VEHICLES ONLY)

Vehicle No..... is certified as complying with the provisions of the Motor Vehicles Act, 1988, and the Rules made thereunder. The certificate will expire on.....

Date..... 20.....

Signature and designation of Inspecting Authority
or holder of the letter of authority of the authorized
testing station.

The certificate of fitness is hereby renewed:-

From..... to..... 20.....

From..... to..... 20.....

From..... to..... 20.....

Signature of Inspecting Authority or the holder
of the letter of authority of the authorized testing
station.

FORM 38A

[See rule 62(1)]

Report of inspection conducted on a transport vehicle by an Inspecting Officer or authorised testing station, other than the Inspecting Officer in the office of the registering authority

Vehicle bearing registration number has been inspected by the undersigned today and it is certified that it complies with the provisions of the Motor Vehicles Act, 1988 (59 of 1988) and the Central Motor Vehicles Rules, 1989 and is fit for issue of a Fitness Certificate by the registering authority.

This report will be uploaded at the portal <http://parivahan.gov.in/vahan> and the inspection report signed under my hand and seal will be sent to the registering authority by speed post either today or on the next working day for processing the application for issue of certificate of fitness in respect of the vehicle by the registering authority.

Date

Signature, name and designation of

Place

the Inspecting Officer or Sign of holder of

Authority letter of authorised testing station

Road Transport Office in which posted. -

District -

State -

Official seal.

FORM 39

[See rule 63(1) and (5)]

FORM OF LETTER OF AUTHORITY ISSUED TO AN AUTHORISED TESTING STATION

Letter of authority No.....

Dated.....

The letter of authority is hereby granted to.....

(Name and full address)

for the establishment of a testing station under sub-section (2) of section 56 of the Act at the premises

(Address of the premises in full)

for the purpose of issue and renewal of certificate of fitness to transport vehicles, subject to the provisions of the Motor Vehicles Act, 1988, and the Central Motor Vehicles Rules, 1989, made thereunder.

This letter of authority is valid from..... to.....

Date.....

Registering Authority

This letter of authority is renewed from..... to.....

Date.....

FORM 40

[See rule 63(2)]

APPLICATION FORM FOR GRANT OR RENEWAL OF LETTER OF AUTHORITY

To

The Registering Authority,

I/We..... address..... hereby submit the following information, namely:

1.	Name of the applicant
2.	Son/wife/daughter of
3.	Address(proof to been closed)
4.	Qualification of the applicant
5.	Experience in automobile workshop
6.	Whether involved/connected directly or indirectly in transport business
7.	Machinery and equipment
8.	Staff engaged in different cadres:-
	(i) Manager
	(ii) Foreman
	(iii) Mechanic
	(iv) Helpers
9.	Particulars of a person as required under clause (a) of sub-rule (3) of rule 63 of the Central Motor Vehicles Rules, 1989
	(a) Name
	(b) Age
	(c) Qualification in automobile engineering
	(d) Actual experience in automobile work shop
	(e) Name of firm with full address
	(f) Driving experience of various types of transport vehicles:-

	(i) Driving license number
	(ii) Issued by
	(iii) Date of issue
	(iv) Type of vehicle
	(v) Period of validity of driving license
	(vi) Endorsement on driving license, if any
10	Proof of land owned by or hired by the applicant
11	Whether garage is equipped with following facilities:
	(i) Water supply
	(ii) Electricity
	(iii) Toilet
	(iv) Rest room
12	Sources of finance
13	If application is for the renewal of letter of authority, furnish following particulars, namely:
	(i) Number of existing letter of authority
	(ii) Date of issue
	(iii) Period of validity
	(iv) If application is not submitted within time, state the reasons
	(v) Whether letter of authority suspended/cancelled/surrendered earlier. Furnish details

14. I hereby solemnly declare that the information given above is true and correct. Further, I hereby declare that I shall abide by the rules, regulations and conditions attached to the letter of authority and as prescribed in the Motor Vehicles Act, 1988, and the Central Motor Vehicles Rules, 1989.

Dated.....

Signature of the Applicant

FORM 41

[See rule 75]

STATE REGISTER OF MOTOR VEHICLES

1.	Registration No.
2.	Previous registration number, if any
3.	Whether the motor vehicle is-

	(a) New vehicle
	(b) Imported vehicle
	(c) Ex-army vehicle
4.	Maker's name
5.	Year of manufacture
6.	[Engine number or motor number in the case of Battery Operated Vehicles]
7.	Chassis No
8.	Number of cylinders
9.	Cubic capacity/horse power
10.	Type of fuel used
11.	Class of motor vehicle
12.	Name and full address of the registered owner
13.	Seating capacity
14.	Gross vehicle weight
15.	Unladen weight

FORM 42

[See rule 76(1)]

FORM OF APPLICATION FOR REGISTRATION OF MOTOR VEHICLE BY OR ON BEHALF OF A DIPLOMATIC/CONSULAR OFFICER

(To be forwarded through the competent authority in triplicate)

To

The Registering Authority,

.....

1.	Full name, designation and address of the diplomatic officer/consular officer/full name, address and station of the diplomatic mission/consular office or post
2.	Age of the person to be registered as registered owner
*[2a.]	Mobile number of the person to be registered as registered owner]
3.	Name and address of the person from whom the vehicle was

	purchased/name of the port through which the vehicle was imported/name of the person or company from whose bonded stocks the vehicle was purchased and the name of the port	
4.	Country from which imported
5.	Class of vehicle
6.	Type of body
7.	Maker's name
8.	Year of manufacture
9.	Number of cylinders
10.	Horse power
11.	Maker's classification or, if not known, wheel base
12.	Chassis No.
13.	[Engine number or motor number in the case of Battery Operated Vehicles]
14.	Seating capacity (including driver)
15.	Unladen weight
16.	Particulars of previous registration and registered number (if any)
17.	I hereby declare that the vehicle has not been registered in any other State in India
18.	Colour or colours of body, wings and front end
19.	Number, description and size of tyres:-
	(a) Front axle
	(b) Rear axle
	(c) Any other axle
20.	Maximum laden weight
21.	Maximum axle weight (To be furnished in the case of heavy motor vehicles only):-
	(a) Front axle

(b) Rear axle
(c) Any other axle

The above particulars are to be filled in for a rigid frame motor vehicle of tow or more axles.

Signature of the Applicant

For use in the Ministry of External Affairs (Protocol Division) or in the office of the Chief Secretary of the State Government concerned

Certified that..... (name and designation) is a diplomatic officer/consular officer recognised by the Government of India and that he/she is not entitled to exemption from payment of registration fees.

Place.....

Date.....

Signature of the Officer.....

Designation.....

* Inserted vide G.S.R No. 178(E) dated 16-03-2020, (w.e.f 01-04-2020)

FORM 43

[See rule 76(4)]

CERTIFICATE OF REGISTRATION OF A MOTOR VEHICLE BELONGING TO A DIPLOMATIC OR CONSULAR OFFICER

Registered No.....	
Brief description of vehicle, (e.g., Fiat 1100 or Hindustan Landmaster car, Willys jeeps, Dodge/ Desoto/Gadga petrol/diesel truck, Leyland 36 seater diesel bus, trailer, etc.)	

Full name, designation and address of the diplomatic officer/consular officer/full name, address and Station of the Diplomatic Mission/Consular officer or post.....

Transferred to.....

Signature of the Registering Authority

Detailed description:

1.	Class of vehicle
2.	Maker's name
3.	Type of body
4.	Year of manufacture

5.	Number of cylinders
6.	Chassis number
7.	[Engine number or motor number in the case of Battery Operated Vehicles],
8.	Horse power
9.	Maker's classification, or if not known, wheel base
10.	Seating capacity (including driver)
11.	Unladen weight

ADDITIONAL PARTICULARS IN THE CASE OF ALL TRANSPORT VEHICLES

12.	Colour or colours of body, wings and front end
13.	Registered laden weight
14.	Number, description and size of tyres-
	(a) Front axle
	(b) Rear axle
	(c) Any other axle
15.	Registered axle weight (in the case of heavy motor vehicles only):-
	(a) Front axle
	(b) Rear axle
	(c) Any other axle

Date.....20....

(Signature of Registering Authority)

FORM 44

[See rule 78(1)]

**INTIMATION OF CHANGE OF STATE OF RESIDENCE AND APPLICATION FOR
ASSIGNMENT OF FRESH REGISTRATION MARK BY OR ON BEHALF OF A
DIPLOMATIC OR CONSULAR OFFICER**

(To be submitted in triplicate)

To

The Registering Authority,

I.....of that (Name and designation)..... being the owner of..... motor vehicle No..... registered at..... under section 42 of the Motor Vehicles Act, 1988 hereby

declare that I have, since the..... day of.....19..... kept the said vehicle in the State of..... and hereby apply for assignment to the motor vehicle of a fresh registration mark.

****[My mobile number is**

I enclose the certificate of registration and the certificate of fitness* of the vehicle.

Date.....

Signature of the Owner

*Strike out the words "and the certificate of fitness" if inapplicable.

For use in the Ministry of External Affairs (Protocol Division) or in the Office of the Chief Secretary of the State Government concerned Certified that.....

(Name and designation) continues to hold the status of a Diplomatic Officer/Consular Officer.

He/She is at present stationed at.....

Place.....

Designation.....

Date.....

Signature of the Officer

*** Inserted vide G.S.R No. 178(E) dated 16-03-2020, (w.e.f 01-04-2020)*

FORM 45

[See rule 82(l)]

APPLICATION FOR GRANT OF PERMIT IN RESPECT OF TOURIST VEHICLE

To

The State Transport Authority,

.....

I/We, the undersigned hereby apply for the grant of permit for tourist vehicle valid throughout the territory of India/in the State of.....

(specify the names of the States)

1.	Name of the applicant (s) in full
2.	Status of the applicant, whether individual, company or partnership firm, co-operative society, etc
3.	Name of father or husband (in case of individual) and in case of firm or company the particulars of managing partner or managing director, as the case may be
4.	Full address (to be supported by attested copy of ration card, electricity bill, etc., in the case of individual or any other valid documentary proof of the satisfaction of State Transport Authority and in case of company or firm, certified copy of the Memorandum of Association or copy of partnership deed)
5.	(a) Whether the applicant himself intends to drive the vehicle?
	(b) If so, whether the applicant-
	(i) Holds heavy passenger motor vehicle driving license
	(ii) The number, date and validity period of driving license
	(iii) Name and address of the licensing authority
6.	Registration certificate alongwith the date of first registration, insurance certificate number
7.	Details of other permits, if any, held in respect of a particular vehicle
8.	Details of total number of tourist permits held by the applicant

9.	Type of vehicle
10.	Make of motor vehicle
11.	Particulars of convictions/suspensions/cancellation, if any, during the past three years in respect of the vehicle/permit held by the applicant (s)
12.	I/We forward herewith the certificate of registration of the vehicle or I/We will produce the certificate of registration of the vehicle before the permits are issued
13.	I/We hereby declare that the above statements are true and that I/We am/are resident(s) of this State having principal place of business in this State at
14.	I/We have paid the fee of Rs.....

Date.....

Signature or thumb-impression of the Applicant

FORM 46

[See rules 83(1) and 87(1)]

FORM OF APPLICATION FOR GRANT OF AUTHORISATION FOR TOURIST PERMIT OR NATIONAL PERMIT

To

The Regional/State Transport Authority,

I/We the undersigned hereby apply for the grant of authorisation valid throughout the territory of India/in the State of.....

.....(specify the names of the States)

1.	Name of the applicant(s) in full
2.	Son/wife/daughter of

3.	Address			
4.	Registration mark and year of manufacture and date of registration of the motor vehicle			
5.	[Engine number or motor number in the case of Battery Operated Vehicles]			
6.	Chassis number of the motor vehicle			
7.	Permit number, the authority which had issued the permit and date of issue and date of expiry of the permit			
8.	Unladen weight of the motor vehicle			
9.	Gross vehicle weight of the motor vehicle			
10.	Pay load of the motor vehicle (seating capacity in the case of tourist vehicle)			
11.	Period for which the authorization is sought for			
12.	I/We enclose the certificate of registration and permit of the vehicle			
68[***]			
[13.]	(a) For Tourist Permit			
	I/We enclose bank draft (S) as described hereunder towards payment of the authorization fee (in case of tourist permit)			
Sl.No.	Name of the States	Amount paid	Particulars of bank draft(s) and date	Date of payment
1	2	3	4	5
	(b) For National Permit		
	I/We enclose the receipt towards payment of Rs. 15000/- as consolidated fee for National Permit]		

FORM 47

[See rules 83(2) and 87(2)]

AUTHORISATION FOR TOURIST PERMIT OR NATIONAL PERMIT

No.....

Office of the Secretary, Regional/State Transport Authority

Authorisation No.....

Dated.....

This authorisation is valid throughout the territory of India/in the State(s) of:

1.....	2.
3.	4.
5.	6.
7.	8.
9.	10.

(Here write the names of the States applicable)

1.	Name in full and complete address of holder of the permit
2.	Registration mark of the motor vehicle and make Year of manufacture
3.	Year of manufacture
4.	[Engine number or motor number in the case of Battery Operated Vehicles]
5.	Chassis number of the motor vehicle
6.	Permit number of the motor vehicle
7.	Name of the permit issuing authority
8.	Date of expiry of the permit
9.	Gross vehicle weight of the motor vehicle
10.	Unladen weight of the motor vehicle
11.	Seating capacity in the case of tourist vehicle
12.	Period of validity of the authorisation	From.....to.....
[13.]	The authorization for the following

State (s) is subject to payment of taxes by their permit holder to the respective State(s)	..
1.
2.
3.
4.

Signature and designation with seal of the
Transport Authority

[Certificate of payment of composite fee/taxes]

Sl No.	Name of the States for which payment made	Amount paid Rs.P.	No. and date of bank draft and name of bank	Date of receipt of bank draft	Payable to	Period for which paid	Registration mark of the vehicle	Signature and seal of the authority
1	2	3	4	5	6	7	8	9

Certified that the National Permit holder has paid the consolidated fee of Rs. 15,000 vide receipt numberdated.....]

Signature and seal of the Transport Authority

[Note:-This Form shall be security printed watermark paper and shall carry such hologram emblem, as may be specified by the State Government.]

Dated.....

Signature or thumb-impression of Applicant(s)

*Strike out whichever is inapplicable.

FORM 48

[See rule 86]

APPLICATION FOR THE GRANT OF NATIONAL PERMIT

To

The Regional/State Transport Authority,

.....
I/We, the undersigned, hereby apply for the grant of national permit valid throughout the territory of India/in the State of..... (here write the names of the States desired)

1.	Name of the applicant (s) in full
2.	Status of the applicant, whether individual, company or partnership firm, co-operative society,etc.	
3.	Name of father or husband (in case of individual) and in case of company or firm the particulars of managing partner of managing director, as the case may be
4.	Full address (to be supported by attested copy of ration card, electricity bill, etc. in case of individual or any other valid documentary proof to the satisfaction of the State Transport Authority/Regional Transport Authority and in case of company or firm, the certified copy of the Memorandum of Association or copy of the deed of partnership, as the case may be)
5.	(a) Whether the applicant himself intends to drive the vehicle?
	(b)(i) If so, whether the applicant holds heavy goods vehicle driving license
	(ii) The number, date and validity period of the driving license
	(iii) Name and address of the licensing authority

6.	Registration certificate alongwith the date of first registration, insurance certificate
7.	Details of any other permits if held in respect of a particular vehicle
8.	Details of number of national permits held by the applicant
9.	Type of vehicle, whether two-axle truck or articulated vehicle or multi-axle vehicle or tractor-trailer combination
10.	Make of motor vehicle
11.	Particulars of convictions/susensions/cancellation, if any, during the past three years in respect of the vehicle/permit held by the applicant (s)
12.	I/We forward herewith the certificate of registration of the vehicle or I/We will produce the certificate of registration of the vehicle before the permits are issued
13.	I/We hereby declare that the above statements are true and that I/We am/are the resident(s) of this State having principal place of business in this State at
14.	I/We have paid the fee of Rs.....

Date.....

Signature or thumb-impression of the Applicant

FORM 49 - Omitted

FORM 50

[See rule 90(3)]

BILL OF LADING

Bill No.....

Dated.....

Name and address of the

national permit holder				
Registration number of the motor vehicle				
		Dated.....			
Name of the consignor				
Name of the consignee				
Point of origin				
Point of destination				
Number of articles	Description of goods	Kilogram	Freight charges paid	Freight charges to pay	Total
			Rs.P.	Rs.P.	

Bill No.....

Dated.....

Received.....

Package.....

From.....

(Truck No.....)

Signature of Consignee

Signature of the Carrier

Signature of Consignor

*At carrier's risk

At owner's risk

Value of the goods Rs.....

Delivery at.....

Note:-The bill of lading shall be in the proforma given above and shall be in quadruplicate, the original (white) to be carried in the motor vehicle, the duplicate (light green) for the consignor, the triplicate (pink) for the consignee and the fourth copy (cream yellow) for record of the national permit holder.

*Strike out whichever is inapplicable.

FORM 51

[See rule 141]

Certificate of insurance in respect of.....

Certificate No	Policy No.....	
1.	Registration mark of the vehicle insured	
2.	Description of the vehicle	
3.	Make an year of manufacture	
4.	[Engine number or motor number in the case of Battery Operated Vehicles]	
5.	Carrying capacity	
6.	Name and address of the insured	
7.	Effective date and time of commencement of insurance	
8.	Date of expiry of insurance	
9.	Persons or classes of persons entitled to drive:-	
	Stage carriage/contract carriage/private service vehicle	Any person including insured: Provided that a person driving holds an effective driving license at the time of the accident and is not disqualified from holding or obtaining such a license: Provided also that the person holding an effective learner's license may also drive the vehicle when not used for the transport of passengers at the time of the accident and that such a person satisfies the requirement of rule 3 of the Central Motor Vehicles Rules, 1989.
	Goods carriage	Any person including insured: Provided that a person driving holds an effective driving license at the time of the accident and is not disqualified from holding or obtaining such a license: Provided also that the person holding an effective learner's license may also drive

		the vehicle when not used for the transport of passengers at the time of the accident and that such a person satisfies the requirement of rule 3 of the Central Motor Vehicles Rules, 1989.
	Non-transport vehicles	<p>Any person including insured:</p> <p>Any person including insured: Provided that a person driving holds an effective driving license at the time of the accident and is not disqualified from holding or obtaining such a license: Provided also that the person holding an effective learner's license may also drive the vehicle when not used for the transport of goods at the time of the accident and that such a person satisfies the requirement of rule 3 of the Central Motor Vehicles Rules, 1989.</p>
10.	Limitations as to use:- Stage carriage/goods service vehicle	<p>The policy covers uses only under a permit within the meaning of the Motor Vehicles Act, 1988, or such a carriage falling under sub-section (3) of section 66 of the Motor Vehicles Act, 1988.</p> <p>The policy does not cover use for</p> <ul style="list-style-type: none"> (a) Organized racing, or (b) Speed testing
11.	Private service vehicle and non-transport vehicle	<p>The policy covers use for any purpose other than-</p> <ul style="list-style-type: none"> (a) Hire or reward, (b) Organized racing, or (c) Speed testing

We hereby certify that the policy to which this certificate relates as well as this certificate of insurance are issued in accordance with the provisions of Chapter X or XI of the Motor Vehicles Act, 1988.

Authorized Insurer

FORM 52

[See rule 42(1)]

COVER NOTE

1.	Registration mark, number and description of the vehicle insured
2.	Name and address of insured
3.	Effective date and time of commencement of insurance for the purpose of this Act
4.	Date of expiry of insurance
5.	Persons or classes of persons entitled to drive
6.	Any limitations as to use of motor vehicle
7.	The period of validity of this cover note will expire on

I/We hereby certify that this cover is issued in accordance with the provisions of Chapter XI of the Motor Vehicles Act, 1988

Authorized Insurer

FORM 53

[See rule 148(1)]

CERTIFICATE IN RESPECT OF EXEMPTION OF MOTOR VEHICLE FROM INSURANCE

Certified that the motor vehicles of the following description:

(a)	Registration number
(b)	Make
(c)	Class, i.e., motor cycle, motor car, stage carriage, goods carriage, contract carriage or other class (to be described)
(d)	Colour of body
	Is the property of-	
	(i) The Government of
	The local authority/State transport undertaking, namely.....the vehicles of which have been exempted

under section 146 of the Motor Vehicles Act, 1988, by the Government
of.....by their order No.....dated.....

This certificate is valid up to.....unless cancelled in the meanwhile.

Dated.....

Signed on behalf of.....

Designation:

FORM 54

[See rule 150(a) and (2)]

ACCIDENT INFORMATION REPORT

1.	Name of the police station
	CR No./Traffic accident report
	Date, time and place of the accident
	Name and full address of the injured/deceased
	Name of the hospital to which he/she was removed
	Registration number of vehicle and the type of the vehicle
	Driving license particulars
	(a) Name and address of the driver
	(b) Driving license number and date of expiry
	(c) Address of the issuing authority
	(d) Badge No. in case of public service vehicle
8.	Name and address of the owner of the vehicle at the time of the accident
9.	Name and address of the insurance company with whom the vehicle was insured and the particulars of the Divisional Officer of the said insurance company

10.	Number of insurance policy/insurance certificate and the date of validity of the insurance policy/insurance certificate
11	Registration particulars of the vehicle (class of vehicles)
	Registration No.
	[engine number or motor number in the case of Battery Operated Vehicles]
	Chassis No.
12.	Route permit particulars
13.	Action taken, if any, and the result thereof

FORM 55

[See rule 160(1)]

APPLICATION FOR THE APPROVAL OF A FOREIGN INSURER

I/We hereby apply for the inclusion of..... of..... (Name of foreign insurer) constituted/incorporated/domiciled at..... in the approved list maintained under rule 159 of the Central Motor Vehicles Rules, 1989, of the Central Government and for the inclusion of my/our name as the guarantor of the said.....(name of foreign insurer) for the purpose of Chapter XI of the Motor Vehicles Act, 1988, and the said Rules. I/We hereby certify that I/We have entered into an arrangement for the purposes of the said Act and the said Rules with the said foreign insurer and I/We hereby agree to act as guarantor in India in respect of the said foreign insurer for the purposes of the said Act and the said Rules..

Dated.....20.....

Signature of Authorized Insurer

Address.....

FORM 56

[See rule 160(3)]

NOTICE TO CEASE TO ACT AS GUARANTOR

This is to give notice that I/We desire to cease acting as guarantors in India of.....

..... of.....(Name of foreign insurer)..... (Address of foreign insurer)..... after..... or from..... the expiry of two months from the date on which this notice is delivered to the Central Government, whichever is later, for the purposes of Chapter X I of the Motor Vehicles Act, 1988 and the Central Motor Vehicles Rules, 1989.

Dated the.....day of.....20....

(Authorized Insurer)

FORM 57

[See rules 140(v) and 161(1)]

CERTIFICATE FOR FOREIGN INSURANCE

Certificate No..... Policy No.....(Optional)

1. Name and address of approved foreign insurer
2. Name and address of guarantor
3. Registration mark and number of the motor vehicle
4. Name and address of visitor
5. Date of commencement of the policy
6. Date of expiry of the policy
7. Persons or classes of persons entitled to drive in India
8. Any limitations as to use of motor vehicle in India
9. Particulars of any other vehicle(s) which the foreign visitor is entitled to drive in India and any limitations as to use of such vehicle in India.

I/We hereby certify that this certificate of foreign insurance has been issued in accordance with the provisions of Chapter XI of the Motor Vehicles Act, 1988, and the Central Motor Vehicles Rules, 1989.

(Approved foreign insurer)

FORM-58

[Rule 161(2)]

ENDORSEMENT ON CERTIFICATE OF FOREIGN INSURANCE

Certified that I have today examined this certificate of foreign insurance and that I am satisfied that this certificate complies with the requirements of Chapter XI of the Motor Vehicles Act, 1988, and the Central Motor Vehicles Rules, 1989.

The period of validity of this endorsement will expire on..... unless cancelled before the expiry of the period of its validity in accordance with the provisions of the Motor Vehicles Act and Rules made thereunder.

Date Signature and designation of competent authority

The period of validity of this endorsement is hereby renewed-

Up to

Up to

Up to

Unless cancelled in the meanwhile, (Signature and designation of competent authority)

ANNEXURES

¹[ANNEXURE I [See sub-rule 115 (3)]]

MASS EMISSION STANDARDS FOR PETROL DRIVEN VEHICLES

1. Type approved Tests:

Two and three-wheeler vehicles:

Reference Mass, R (kg)	CO (g/km)	HC(g/km)
(1)	(2)	(3)1
R<150	12	8
150≤R≤350	12+18(R-150)	8+4(R-150)
	200	200
R>350	30	12

Light duty vehicles:

Reference Mass, rw(Kg)	CO(g/km)	HC(g/km)
(1)	(2)	(3)
rw < 1020	14.3	2.0
1020≤rw≤51250	16.5	2.1
1250≤rw≤1470	18.8	2.1
1470≤ rw ≤1700	20.7	2.3
1700≤ rw ≤1930	22.9	2.5
1930≤ rw≤2150	24.9	2.7
rw > 2150	27.1	2.9

2. Conformity of Production Tests:

Two and three-wheeler vehicles:

Reference Mass, R (kg)	CO (g/km)	HC (g/km)
(1)	(2)	(3)
R < 150	15	10
150 < R < 350	15 + 25 (R-150)	10 + 5 (R-150)
	200	200
R > 350	40	15

Light duty vehicles:

Reference Mass, rw (kg)	CO (g/km)	HC (g/km)
(1)	(2)	(3)
$rw > 1020$	17.3	2.7
$1020 \leq rw \leq 1250$	19.7	2.7
$1250 \leq rw \leq 1470$	22.5	2.8
$1470 \leq rw \leq 1700$	24.9	3.0
$1700 \leq rw \leq 1930$	27.6	3.3
$1930 \leq rw \leq 2150$	29.9	3.5
$rw > 2150$	32.6	3.7

Explanation.- Mass emission standards refers to the gm. of pollutants emitted per km. run of the vehicle, as determined by a Chassis Dynamometer Test using the Indian Driving Cycle.]

ANNEXURE II

[See rule 115(3)]

BREAKDOWN OF THE OPERATING CYCLE USED FOR THE TEST

No. of operation	Acceleration (m/sec)²	Speed (km/h)	Duration of each operation(s)	Cumulative time (s)
(1)	(2)	(3)	(4)	(5)
01. Idling	-	-	16	16
02. Acceleration	0.65	0-14	6	22
03. Acceleration	0.56	14-22	4	26
04. Deceleration	-0.63	22-13	4	30
05. Steadyspeed	-	13	2	32
06. Acceleration	0.56	13-23	5	37
07. Acceleration	0.44	23-31	5	42
08. Deceleration	-0.56	31-25	3	45
09. Steadyspeed	-	25	4	49
10. Deceleration	-0.56	25-21	2	51
11. Acceleration	0.45	21-34	8	59
12. Acceleration	0.32	34--112	7	66
13. Deceleration	-0.46	42-37	3	69
14. Steadyspeed	-	37	7	76
15. Deceleration	-0.42	[37-34]	2	78
16. Acceleration	0.32	34-42	7	85
17. Deceleration	-0.46	42-47	9	94
18. Deceleration	-0.52	27-14	7	101
19. Deceleration	-0.56	14-00	7	103

ANNEXURE III
[See rule 115(3)]

REFERENCE FUEL FOR TYPE AND PRODUCTION CONFORMITY TESTS

Serial No.	Characteristic	Requirements		Method of (ref. of/or test (Ref. of P: or 18:14)*
		87 Octane	93 Octane	
(1)	(2)	(3)	(4)	(5)
1.	Colour, visual	Orange	Red	
2.	Copper-strip corrosion for 3 hours at 50°C.	Not worse than No.1		P:15 (1968)
3.	Density at 15°C.	Not limited but to be reported		P:16 (1967)
4.	Distillation-			
	(a) Initial boiling point	Not limited but to be reported		P:18 (1967)
	(b) Recovery up to 20°C per cent by volume, min.	10	10	
	(c) Recovery up to 125°C per cent. by volume, min.	50	50	
	(d) recovery up to 130°C per cent. by volume, min.	90	90	
	(e) Final boiling point, max.	215°C	215°C	
	(f) Residue per cent by volume, max.	2	2	
5.	Octane number (research method) max.	87	94	P : 27 (1960)
6.	Oxidation stability, in minutes, min.	360	360	P : 28 (1966)
7.	Residue on evaporation mg/100 ml, max	4.0	4.0	P : 29 (1960)
8.	Sulphur, total per cent, by weight, max	0.25	0.20	P : 34 (1966)
9.	Lead content (as Pb), g/l max.	0.56	0.80	P : 37 (1967) or
10.	Reid vapour pressure at 38 degree C, kgf/cm ³ .max.	0.70	0.70	P : 39 (1967)

ANNEXURE IV

[See rule 115(4)]

LIMIT VALUES OF EXHAUST GAS OPACITY APPLICABLE FOR DIESEL-DRIVEN VEHICLES

The engine tests at steady speed

Nominal Flow G(1/s)	Absorption Coefficient [K(1/m)]	Nominal Flow G(1/s)	Absorption Coefficient [K(1/m)]
(1)	(2)	(3)	(4)
42	2.00	120	1.20
45	1.91	125	1.17
50	1.82	130	1.15
55	1.75	135	[1.13]
60	1.68	140	1.11
65	1.61	145	1.09
70	1.56	150	1.07
75	1.50	155	1.05
80	1.46	160	1.04
85	1.41	165	1.02
90	1.38	170	1.01
95	1.34	175	1.00
100	1.31	180	0.99
105	1.27	185	0.97
110	1.25	190	0.96
115	1.22	195	0.95
-	-	<200	0.93

[The above standards shall not be applicable to agricultural tractors and the same for the agricultural tractors shall be notified at a later date.]

[ANNEXURE IV-A

[See rule 115(5)]

TEST CYCLE

The following 13-mode cycle shall be followed in dynamometer operation on the test engine:-

Mode No.	Engine Speed	% Load
(1)	(2)	(3)
1.	Idle	-
2.	Intermediate	10
3.	Intermediate	25
4.	Intermediate	50
5.	Intermediate	75
6.	Intermediate	100

7.	Idle	-
8.	Rated	100
9.	Rated	75
10.	Rated	50
11.	Rated	25
12.	Rated	10
13.	Idle	-]

[ANNEXURE IV-B

[See rule 115(10)]

DRIVING CYCLES AND COLD START

A. For all 2 and 3-wheelers except diesel vehicles:

Cold Start Procedures:-

Test Cell condition	-
Soak Temperature	20-30C
Soak Period	6.30 hrs
Preparatory running before sampling	Idling of 40 seconds and 4 cycles
Number of test cycles	6
Break down of cycles	As per Annexure II to principal rules

B. For all other vehicles including diesel 2, 3 and 4-wheelers:

Cold Start Procedures:-

Soak Temperature	20-30C
Soak Period	6.30 hrs
Preparatory running before sampling	Idling of 40 seconds
Number of test cycles*	4 cycles of Part one and 1 cycle of Part two
Break down of cycles*	Modified Indian driving cycle as per Tables I and II

*For diesel, 2 & 3-wheelers

Number of test cycles	6
Break down of cycles	Indian driving cycles. As per Annexure II to principal rules.

MODIFIED INDIAN DRIVING CYCLE FOR YEAR 2000

Table I: Operating cycle on the Chassis Dynamometer (Part one)

No of Operation	Operation	Phase	Acceleration (m/s ²)	Speed (Km/h)	Duration of each		Cumulative time(s)	Gear to be used in the case of manual box
					Operations	Phase s		
1	Idling	1			11	11	11	
2	Acceleration	2	1.04	0-15	4	4	15	1
3	Steady Speed	3		15	8	8	23	1
4	Deceleration		-0.69	15-10	2		25	1
5	Declaration, clutch	4				5		
	disengaged		-0.92	10-0	3		28	K _i (*)
6	Idling	5			21	21	49	16 ₅ PM+5 ₅ K ₁ (*)
7	Acceleration		0.83	0-15	5		54	1
8	Gear Change	6			2	12	56	
9	Acceleration		0.94	15-32	5		61	2
10	Steady Speed	7		32	24	24	85	2
11	Deceleration		-0.75	32-10	8		93	2
12	Declaration, clutch disengaged	8	-0.92	10-0	3	11	96	K ₂ (*)
13	Idling	9			21	21	117	16 ₅ PM+5 ₅ K ₁ (*)
14	Acceleration		0.83	0-15	5		122	1
15	Gear Change				2		124	
16	Acceleration	10	0.62	15-35	9	26	133	2
17	Gear Change				2		135	
18	Acceleration		0.52	35-50	8		143	3
19	Steady Speed	11		50	12	12	155	3
20	Deceleration	12	-0.52	50-35	8	8	163	3
21	Steady Speed	13		35	13	13	176	3
22	Gear Change				2		178	
23	Deceleration	14	-0.86	32-10	7	12	185	2
24	Deceleration, clutch							
	disengaged		-0.92	10-0	3		188	K _z (*)
25	Idling	15			7	7	195	7 ₅ PM(*)

MODIFIED INDIAN DRIVING CYCLE FOR YEAR 2000

Table II: Operating cycle on the chassis Dynamometer (Part two)

No of Operation	Operation	Phase	Acceleration (m/s^2)	Speed (Km/h)	Duration of each		Cumulative time(s)	Gear to be used in the case of manual box
					Operations	Phase s		
I	Idling	1			20	20	20	Kt(*)
2	Acceleration		0.83	0-15	5		25	1
3	Gear Change				2		27	-
4	Acceleration		0.62	15-35	9		36	2
5	Gear Change	2			2	41	38	-
6	Acceleration		0.52	35-50	8		46	3
7	Gear Change				2		48	-
8	Acceleration		0.43	50-70	13		61	4
9	Steady Speed	3		70	50	50	111	5
10	Deceleration	4	-0.69	70-50	8	8	119	4,, 5+4,,4
11	Steady Speed	5		50	69	69	188	4
12	Acceleration	6	0.43	50-70	13	13	201	4
13	Steady Speed	7		70	50	50	251	5
14	Acceleration	8	0.24	70-90	24	24	275	5
15	Steady Speed	9		90	83	83	358	5
16	Deceleration		-0.69	90-80	4		362	5
17	Deceleration	10	-1.04	80-50	8	22	370	5
18	Deceleration		-1.39	50-00	10		380	Ks(*)
19	Idling	11			20	20	400	PM(*)

(*) PM=gearbox in neutral, clutch engaged.

K1K2=First or fifth gear engaged, clutch disengaged

ANNEXURE IV-C

[See rule 115(10)]

Reference fuel petrol

			ASTM Method
	Minimum	Maximum	
Research Octane Number	95.0		D 2699
Motor Octane Number	85.0		D 2700
Density at 15°C (kg/l)	0.748	0.762	D 1298
Reid Vapour pressure	0.56 bar	0.64 bar	D323
Distillation :			
Initial boiling point	24°C	40°C	D 86
10% vol. point	42°C	58°C	
50% vol. point	90°C	110°C	
90% vol. Point	155°C	180°C	
Final boiling point	190°C	215°C	
Residue		2%	D86
Hydrocarbon Analysis:			
Olefins		20%vol.	D1319
Aromatics	(including max. 5%	45% vol.	(*) D 3606/D 2267
Saturates	vol. benzene)* balance		D1319
Oxidation Stability—	480 Minutes		D 525
Existent Gum		4mg/100m1	D381
Sulphur content		0.04%, mass	D 1266/D 2622/D 2785
Copper Corrosion at 50°C			D 130
Lead content		0.0058/ltr	D3237
Phosphorous content		0.00138/ltr	D3231
* Addition of oxygenates prohibited.]			

ANNEXURE IV-D

[See rule 115(10)]

Reference fuel diesel

			ASTM Method
	Minimum	Maximum	
Cetane Number	49	53	D 613
Density at 15°C (kg/l)	0.835	0.845	D 1298
Distillation:			D86
50% point	245°C		

911% point	320°C	340°C	
Final boiling point	-	370°C	
Flash point	55°C		D93
CFI'I'		(-) 5°C	EN 116 (CEN)
Viscosity at 40°C	2.5 mm ⁰ /s	3.5mm ² /s	D445
Sulphur content	to be reported	0.3%mass	D1266/D2622/D2785
Copper Corrosion		1	D 130
Conradson carbon residue (10%, DR)		0.2% mass	D 189
Ash content		0.01% mass	D 482
Water content		0.05% mass	D95/DI744
Neutralization (strong acid) No.		0.20 mg/KOH/g 2.5 mg/l00ml	D2274]
Oxidation stability			
Additives	*		

* It must not contain any metallic additives or cetane improver additives.]

[ANNEXURE IV-E

[See rule 115(14)]

Driving cycles and coldstart for four-wheeled vehicles:as described in (a), (b) and (c)

Soak Temperature	20°C-30°C
Soak Period	6-30 hours
Preparatory running before sampling	Nil
Number of test cycles	4 cycles of Part one and one cycle of Part two
Break down of cycles	Modified Indian Driving Cycle as per Table 1 and 2 of Annexure IV-B of sub-rule (10)]

ANNEXURE IV-F

[See rule 115(14)]

Technical characteristic of reference fuel prescribed for approval tests and to verify conformity of production

Parameter	Unit	Limits ⁽¹⁾		Test Method
		Minimum	Maximum	
Cetane Number(2)		52.0	54.0	EN-ISO 5165
Density at15°C	Kg/m ³	833	837	EN-150 3675
Distillation:				
-50%point	OC	245	350	EN-ISO 3405
95% point	°C	345	370	EN-ISO 3405
- final boiling point	°C	--		EN-ISO 3405
Flash point	°C	55	--	EN 22719
CFPP	°C	--	-5	EN 116

Viscosity at 400C	mm ² /s	2.5	3.5	EN-ISO 3104
Polycyclic aromatic hydrocarbons	% m/m	3	6.0	IP 391
Sulphur content(3)	mg/kg	--	300	Pr. EN-ISO/DIS 14596
Copper corrosion		--	1	EN-IS02160
Conradson carbon residue (10% DR)	% m/m	--	0.2	EN-ISO 10370
Ash content	%m/m	--	0.01	EN-ISO 6245
Water content	%m/m	--	0.05	EN-ISO 12937
Neutralization (strong acid) number	MgKOH/g	--	0.02	ASTM D 974-95
Oxidation stability ⁽⁴⁾	mg/ml	--	0.025	EN-ISO 12205
New and better method for polycyclic aromatics under development	% m/m	--	--	EN 12916

(1) Values quoted in the specification are "true values". In establishment of their limit values the terms of ISO 4259 Petroleum Products-Determination and application of precision data in relation to methods of test have been applied and in fixing a minimum value, a minimum difference of 2R above zero has been taken into account, in fixing a maximum and minimum value, the minimum difference is 4R (R=Reproducibility).

Not notwithstanding this measure, which is necessary for technical reasons, the manufacturer of fuels should nevertheless aim at a zero value where the stipulated maximum value is 2R and at the mean value in the case of quotations of maximum and minimum limits. Should it be necessary to clarify the questions as to whether a fuel meets the requirements of the specification, the terms of ISO 4259 should be applied.

(2) The range of cetane number is not in accordance with the requirements of a minimum range of 4R, however, in the case of a dispute between fuel supplier and fuel user, the terms of ISO 4259 may be used to resole, such dispute provided replicate measurements, of sufficient number to archive the necessary precision, are made in preference to single determinations.

(3) The actual sulphur content of the fuel used for the Type I test shall be reported.

(4) Even though oxidation stability is controlled, it is likely that shelf life will be limited. Advice should be sought from the supplier as to storage conditions and life.

ANNEXURE IV-G

[See rule 115(14)]

Technical characteristics of reference fuel prescribed for approval tests and to verify conformity of production

Type: Unleaded petrol

Parameter	Unit	Limits(n)		Test Method
		Minimum	Maximum	
Research Octane number, RON		95.0	--	EN 25164
Motor octane number, MON		85.0	--	EN 25163
Density at 15°C	Kg/m ³	748	762	ISO 3675
Reid vapour pressure	kPa	56.0	60.0	EN 12
Distillation: initial boiling point evaporated at 100°C evaporated at 150°C final boiling point	°C % v/v %v/v °C	24 49.0 81.0 190	40 57.0 87.0 215	EN-ISO 3405 EN-ISO 34115 EN-ISO 3405 EN-ISO 3405
Residue	% volume	--	2	EN-ISO 3405
Hydrocarbon analysis Olefins Aromatics -benzene - saturates	%v/v %v/v % v/v % v/v	-- 28.0 -- --	10 40.0 1.0 Balance	ASTMD1319 ASTMD1319 Pr, EN 12177 ASTM D 1319
Carbon/hydrogen ratio		Report	Report	
Oxidation Stability ²	minutes	480	--	EN-ISO 7536
Oxygen content	%m/m	--	2.3	EN 1601
Existent	mg/ml	--	0.04	EN-ISO 6246

gum				
Sulphur content(3)	mg/kg	--	100	Pr. EN ISO/ DIS 14596
Copper corrosion for 3 hours at 50°C		-	1	EN-ISO 2160
Lead content	mg/l	--	5	EN 237
Phosphorous content	mg/l	-	1.3	ASTM D 3231

(1) The value quoted in the specification are "true value". In establishment of their limit values the terms of ISO 4259 "Petroleum products - Determination and application of precision data in relation to methods of test" have been applied and in fixing a minimum value, a minimum difference of 2R above zero has been taken into account; in fixing a maximum and minimum value, the minimum difference is 4R (R=reproducibility).

Notwithstanding this measure, which is necessary for statistical reasons, the manufacturer of fuels should nevertheless aim at a zero value where the stipulated maximum value is 2R and at the mean value in case of quotations of maximum and minimum limits. Should it be necessary to clarify the question as to whether a fuel meets the requirements of the specifications, the terms of ISO 4259 should be applied.

(2) The fuel may contain oxidation inhibitors and metal deactivators normally used to stabilise refinery gasoline streams, but detergent/dispersive additives and solvent oils must not be added.

(3). The actual sulphur content of the fuel used for the Type I test shall be reported.

Annexure IV-H
 [See rule 115(14)]

Liquefied Petroleum Gas (LPG)

Parameter	Unit	Limits Fuel A		Limits Fuel B		Test Method
		Minimum	Maximum	Minimum	Maximum	
Motor octane number		93.5		93.5		EN 589 Annex B
Composition:						
C ₃ content	%vol.	48	52	83	87	IS07941
C ₄ content	% vol.	48	52	13	17	ISO 7941
Olefins	%vol.	0	12	9	15	IS07941
Evaporation residue	mg/k g		50		50	NFM 41-015
Total sulphur content	ppm					
	weigh t		50		50	EN 24261)
	(1)					
Hydrogen sulphide	--		None		None	IS08819
Copper strip corrosion	Ratin g		Class I		Class I	ISO 6251 ⁽²⁾
Water at 0°C			Free		Free	Visual inspection

(1) Value to be determined at standard conditions 293.2K (20°C) and 101.3 kPa.

(2) This method may not accurately determine the presence of corrosive materials if the sample contains corrosion inhibitors or other chemicals, which diminish the corrosivity of the sample to the copper strip. Therefore, the addition of such compounds for the sole purpose of biasing the test method is prohibited.

Note.-Fuel A and Fuel B are two types of LPG fuels used for testing of vehicles/engines, to take care of the variation in commercial LPG fuel.

ANNEXURE IV-I
 [See rule 115(14)]

Natural gas (NG)

Reference Fuel G 20

Characteristics	Units	Basis	Limits		Test Method
			Minimum	Maximum	
Composition:					
Methane	%mole	11A1	99	100	IS06974
Balance					
[Inerts+C ₂ /C ₂ +I]	%mole	--	--	I	IS06974
N ₂	%mole	--	--	--	ISO 6974
Sulphur content	mg/M3(1)	---	---	50	IS06326-5

(1) Value to be determined at standard conditions 293,2K (20C) and 101, 3 k Pa.

Characteristics	Units	Basis	Limits		Test Method
			Minimum	Maximum	
composition:					
Methane	%mole	92.5	91.5	93.5	IS06974
Balance					
[inerts+C ₂ /C ₂ +I]	%mole	--	-	1	ISO6974
N ₂	%mole	7.5	6.5	8.5	ISO6974
Sulphur content	m'/m3 (1)	--	--		

(1) Value to be determined at standard conditions 293, 2K (20C) and 101, 3k Pa.

Reference Fuel G25

Characteristics	Units	Basis	Limits		Test Method
			Minimum	Maximum	
Composition:					
Methane	%mole	86	84	88	ISO 6974
Balance					
[Inerts+C ₂ /C ₂ +I]	%mole	---	---	I	IS06974
N ₂	% mole	14	12	16	ISO 6974
Sulphur content		--	--	50	ISO6326-5

(1) Value to be determined at standard conditions 293, 2K (20C) and 101, 3 k Pa.

Note: G-20, G-23 and G-25 are three type of CNG fuels, out of which any two is selected for testing of vehicles/engines to take care of the variation in the commercial NG Fuel. The nomenclatures G-20, G-23 and G-25 are as used in EEC.

[ANNEXURE IV-J]

[See rule 115(15)]

Technical Specification of the Reference Fuel to be used for testing vehicles equipped with Gasoline engines.

Parameter	Unit	Limits⁽¹⁾		Test Method
		minimum	Maximum	
Research octane number, RON		95.0	-	EN 25164
Motor octane number, MON		85.0	-	EN 25163
Density at 15 degreesC	kg/m ³	740	754	ISO 3675
Reid vapour pressure	kPa	56.0	60.0	Pr.EN ISO;13016-1; (DVPE)
Distillation:				
--evaporated at 70 degrees C	% v/v	24.0	40.0	EN- ISO 3405
-evaporated at 100 degrees C	%v/v	50.0	58.0	EN-ISO 3405
--evaporated at 150 degrees C	% v/v	83.0	89.0	EN- ISO 3405
-final boiling point,	degreeC	190		
Residue	% v/v -		2.0	EN-ISO 3405
Hydrocarbon analysis :				
-olefins	%v/v -		10.0	ASTM D 1319
-aromatics	% v/v	29.0	35.0	ASTM D 1319
-benzene	% v/v -		1.0	ASTM D 1319
-saturates	%v/v	Report	Report	Pr. EN 12177
Carbon/Hydrogen ratio			Report	ASTM D 1319
Induction period (2)	minutes	480	-	EN-ISO 7536
Oxygen content	% m/m -	-	1.0	EN 1601
Existent gum	mg/ml -	-	0.04	EN-ISO6246
Sulphur content (3)	mg/kg -	-	10	ASTM D 5453

Copper corrosion	-	-	Class 1	EN-ISO 2160
Lead content	mg/1 -	-	5	EN 237
Phosphorus content	mg/1 -	-	1.3	ASTM D 3231

(1) The values quoted in the specifications are "true values". In establishment of their limit values the terms of ISO 4259 Petroleum products-Determination and application of precision data in relation to methods of test have been applied and in fixing a minimum value, a minimum difference of 2R above zero has been taken into account; in fixing a maximum and minimum value, the minimum difference is 4R (R=reproducibility). Notwithstanding this measure, which is necessary for technical reasons, the manufacturer of fuels should nevertheless aim at a zero value where the stipulated maximum value is 2R and at the mean value in the case of quotations of maximum and minimum limits. Should it be necessary to clarify the questions as to whether a fuel meets the requirements of the specifications, the terms of ISO 4259 should be applied.

(2) The fuel may contain oxidation inhibitors and metal deactivators normally used to stabilize refinery gasoline streams, but detergent/dispersive additives and solvent oils must not be added.

(3) The actual sulphur content of the fuel used for the Type I test shall be reported.]

ANNEXURE IV-K

[See rule 115(15)]

Technical Specification of the Reference Fuel to be used for testing vehicles equipped with Diesel engines.

Parameter	Unit	Minimum	Maximum	Test Method
Cetane number ⁽²⁾		52.0	54.0	EN-ISO 5165
Density at 15 degrees C	Kg/m ³	833	837	EN-ISO 3675
Distillation:				
-50% point	Degree C	245	-	EN-ISO 3405
-95% point	Degree C	345	350	EN-ISO 3405
-final boiling point	Degree C	-	370	EN-ISO 3405
Flash point	Degree C	55	-	EN 22719
CFPP	Degree C	-	-5	EN 116
Viscosity at 40 degrees C	mm ² /s	2.3	3.3	EN-ISO 3104
Polycyclic aromatic hydrocarbons	%m/m	3.0	6.0	IP 391
Sulphur content ⁽³⁾	Mg/kg	-	10	ASTM D 5453
Copper corrosion		-	Class 1	EN-ISO 2160

Conradson carbon residue (10% DR)	%m/m	-	0.2	EN-ISO 2160
Ash content	%m/m	-	0.01	EN-ISO 6245
Water content	%m/m	-	0.02	EN-ISO 12937
Neutralisation (strong acid) number	Mg KOH/g	-	0.02	ASTM D 974
Oxidation stability ⁴	Mg/ml	-	0.025	EN-ISO 12205
Lubricity (HFRR wear scan diameter at 60 degrees C)	Micrometer um	-	400	CEC F-06-A-96
FAME	Prohibited			

(1) The values quoted in the specifications are "true values". In establishment of their limit values the terms of ISO 4259 Petroleum products-Determination and application of precision data in relation to methods of test have been applied and in fixing a minimum value, a minimum difference of 2R above zero has been taken into account; in fixing a maximum and minimum value, the minimum difference is 4R (R=reproducibility). Notwithstanding this measure, which is necessary for technical reasons, the manufacturer of fuels should nevertheless aim at a zero value where the stipulated maximum value is 2R and at the mean value in "the case of quotations of maximum and minimum limits. limits. Should it be necessary to clarify the questions as to whether a fuel meets the requirements of the specifications, the terms of ISO 4259 should be applied.

(2) The range for cetane number is not in accordance with the requirements of a minimum range of 4R. However, in the case of a dispute between fuel supplier and fuel user, the terms of ISO 4259 may be used to resolve such disputes provided replicate measurements, of sufficient number to archive the necessary precision, are made in preference to single determinations.

(3) The actual sulphur content of the fuel used for the Type I test shall be reported.

(4) Even though oxidation stability is controlled, it is likely that shelf life will be limited. Advice should be sought from the supplier as to storage conditions and life.

ANNEXURE IV-L

[See rule 115(15)]

Specification of reference fuel for CNG

CNG Reference Fuel for Category M and Category N Vehicles not exceeding 3.500 Kgs GVW and two and three wheelers.

Characteristic	Units	Basis	Limits		Test method			
			minimum	maximum				
Reference fuel G20								
Composition:								
Methane	% mole	100	99	100	ISO 6974			
Balance ⁽¹⁾	% mole	-	-	1	ISO 6974			
N2	% mole				ISO 6974			
Sulphur content	mg/m ³ ⁽²⁾	-	-	10	ISO 6326-5			
Wobbe Index (net)	MJ/m ³ ⁽³⁾	48.2	47.2	49.2				
Reference fuel G25								
Composition:								
Methane	% mole	86	84	88	ISO 6974			
Balance ⁽¹⁾	% mole	-	-	1	ISO 6974			
N2	% mole	14	12	16	ISO 6974			
Sulphur content	mg/m ³ ⁽²⁾	-	-	10	ISO 6326-5			
Wobbe Index (net)	MJ/m ³ ⁽³⁾	39.4	38.2	40.6				

(1) Inerts (different from N2) + C2+C2+.

(2) Value to be determined at 293,2 K (20°C) and 101.3 kPa.

(3) Value to be determined at 273,2 K (0°C) and 101.3kPa.

The above type of vehicles should be tested with both types of Reference Fuels CNG Reference Fuel for Vehicles above 3.500 Kgs GVW

Characteristic	Units	Basis	Limits		Test method			
			Minimum	Maximum				
Reference Fuel G⁸								
Composition:								
Methane		87	84	89				
Ethane		13	11	15				
Balance ⁽¹⁾	% - mole	-	-	1	ISO 6974			
Sulphur content	mg/m ³ ⁽²⁾			10	ISO 6326-5			

(1)Inerts + C2.

(2) Value to be determined at standard conditions (293.2 K (20°C) and 101.3 kPa).

Characteristic	Units	Basis	Limits		Test method
			minimum	maximum	
Reference fuel G₂₃					
Composition:					
Methane		92.5	91.5	93.5	
Balance ⁽¹⁾	% - mole	-	-	1	ISO 6974
N ²		7.5	6.5	8.5	
Sulphur content	mg/m ³ ⁽²⁾	-	-	10	ISO6326-5

(1) Inerts (different form N₂) + C₂ + C₂₊.

(2) Value to be determined at standard conditions (293.2 K (200C) and 101.3 kPa).

Characteristic	Units	Basis	Limits		Test method
			minimum	maximum	
Reference fuel G₂₅					
Composition:					
Methane		86	84	89	
Balance ⁽¹⁾	% - mole	-	-	1	ISO 6974
N ₂		14	12	16	
Sulphur content	mg/m ³ ⁽²⁾	-	-	10	ISO 6326-5

(1) Inerts (different from N₂ + C₂ + C₂)

(2) Value to be determined at standard conditions (293.2 KL 200) and 101.3 kPa).

Annexure IV-LA

(see the proviso to sub-rule (3) of rule 115B)

Technical specifications of the reference LNG fuel

Sr. No	Component	Concentration
1.	Methane %	87.33-99.71
2.	Ethane %	0.09-10.26
3.	Propane %	0.03-3.56
4.	Butane + %	0-1.48
5.	Sulphur	<10 ppm
6.	LNG Density kg/m ³	421.39-467.35
7.	Expansion ratio m ³ (n)/m ³ liq	558-600.0
8.	Gas GCV MJ/m ³ (n)	39.91-46.24
9.	Wobbe Index MJ/m ³ (n)	53.51-56.77".

ANNEXURE IV-M

[See rule 115(15)]

(Specification of reference fuel for LPG)

LPG Reference Fuel for Category M and Category N vehicles not exceeding 3,500 kgs GVW and two and three wheelers

Parameter	Unit	Fuel A	Fuel B	Test method
Composition				ISO 7941
C ₃ -content	%vol.	30±2	85±2	
C ₄ -content	% vol.	balance	balance	
<C ₃ >C ₄	% vol.	maximum 2	maximum 2	
Olefins	% vol.	maximum 12	maximum 15	
Evaporation residue	mg/kg	Maximum 50	Maximum 50	ISO 13757
Water at 0°C		Free	Free	Visual inspection
Total sulphur content	Mg/kg	Maximum 10	Maximum 10	EN 24260
Hydrogen Sulphide		none	none	ISO 8819
Copper strip corrosion	Rating	Class 1	Class 1	ISO 6251 ⁽¹⁾
Odour		Characteristic	Characteristic	
Motor octane number		Minimum 89	Minimum 89	EN 589 Annex B

(1) This method may not accurately determine the presence of corrosive materials if the sample contains corrosion inhibitors or other chemicals which diminish the corrosivity of the sample to the copper strip. Therefore, the addition of such compounds for the sole purpose of biasing the test method is prohibited.

LPG Reference Fuel for Vehicles above 3,500 Kgs GVW

Parameter	Unit	Fuel A	Fuel B	Test method
Composition:				1507941
C ₃ content	% vol	50+2	85+2	
C ₄ content	% vol	balance	balance	
<C ₃ >C ₄	%vol	max. 2	max. 2	
Olefins	%vol	max. 12	max. 14	
Evaporation residue	mg/kg	max. 50	max. 50	IS013757
Water at 0°C		Free	free	Visual inspection
Total sulphur content	mg/kg	max. 10	max. 10	EN 24260
Hydrogen sulphide		none	none	ISO 8819
Copper strip corrosion	rating	Class 1	Class 1	ISO 6251 ⁽¹⁾
Odour		Characteristic	Characteristic	
Motor octane number		min. 92.5	min. 92.5	EN 589 Annex B

(1) This method may not accurately determine the presence of corrosive materials if the sample contains corrosion inhibitors or other chemicals which

diminish the corrosivity of the sample to the copper strip. Therefore, the addition of such compounds for the sole purpose of biasing the test method is prohibited.

ANNEXURE IV-N

[See rule 115(15)]

Specification of commercial gasoline fuel

Characteristics	Unit	Requirements	
		Unleaded regular	Unleaded premium
Color, visual		Orange	Red
Density @ 150C	Kg/m3	720-775	720-775
Distillation :			
(a) Recovery up to 70°C (E 70)	% volume	10-45	10-45
(b) Recovery up to 100°C (E 100)	% volume	40-70	40-70
(c) Recovery up to 150°C (E 150)	% volume	75 min	75 min
(d) Final Boiling Point (FBP), max	°C	210	210
(e) Residue, max.	% volume.	2	2
Research Octane Number (RON) min		91	95
Motor Octane Number (MON). min		81	85
Gum content (solvent washed), max	mg/100 ml	5	5
Oxidation Stability min	minutes	360	360
Sulphur, total, max	mg/kg	50	50
Lead content (as Pb), max	g/l	0.005	0.005
Reid Vapour Pressure (RVP), max	kPa	60	60
Vapour Lock Index (VU)			
(a) Summer, max		750	750
(b) Other months max		950	950
Benzene Content, max	% volume	1	1
Copper strip corrosion for 3 hrs @ 50°C, Max	Rating	Class 1	Class 1
Olefin content, max	% volume	21	18
Aromatics content max	% volume	35	35
Oxygen content max	% mass	2.7	2.7
Oxygenates Content			
(a) Methanol, max	% volume	3	3
(b) Ethanol, max	% volume	5	5
(c) Iso-propyl alcohol, max	% volume	10	10
(d) Iso-Butyl alcohol max	% volume	10	10
(e) Tertiary-butyl alcohol. max	% volume	7	7
(f) Ethers containing 5 or more carbon atoms per molecule, max	% volume	15	15
(g) Other oxygenates, max	% volume	8	8

1. Test methods and other provisions details along with the requirements as given above shall be issued by Bureau of Indian Standards.

2. Petrol of 89 RON and 79 MON and having all other properties as the unleaded regular grade indicated above shall also be available for meeting requirements of the older vehicles which will be conforming to pre-Euro III equivalent vehicular emission norms.

3. Type test for Phosphorous content in petrol shall be introduced.

4. These standards specifications have been finalized by the Expert Committee after discussions with the automobile and oil industry as per Auto Fuel Policy.

ANNEXURE IV-O

[See rule 115(15)]

Specification of commercial diesel fuel

Characteristics	Unit	Requirements
Ash, max	% mass	0.01
Carbon Residue (Ramsbottom) on 10 % residue max	% mass	0.3 without additives
Cetane number (CN), min		51
Cetane Index (CI), min		46
Distillation:		
95% vol. recovery at °C, max	°C	360
Flash point:		
(a) Abel, min	°C	35
Kinematic viscosity @ 40°C	Cst	2.0-4.5
Density @15 °C	kg/m ³	820-845
Total Sulphur max	mg/kg	50
Water content, max	mg/kg	200
Cold filter Plugging point (CFPP)		
(a) Summer, max	°C	18
. (b) Winter, max	°C	6
Total contaminations, max	mg/kg	24
Oxidation stability, max	g/m ³	25
Polycyclic Aromatic Hydrocarbon (PAH), max	% mass	11

Lubricity, corrected wear scar diameter (wsd 1, 4) @ 60°C, max	µm (microns)	460
Copper strip corrosion for 3 hrs @ 50°C	Rating	Class 1

1. These density and 95 per cent distillation recovery temperature limits shall be company pool average values. However, all samples shall meet the density @ 15°C limit of 820-860 kg/m³ and 95 per cent. minimum distillation recovery at 370°C.

2. For diesel processed from Assam crude, relaxation of CN & CI by 3 units and density shall be applicable as provided in the present BIS specification.

3. Test methods and other provisions/details along with the requirements as given above shall be issued by Bureau of Indian Standards.

4. These standards specifications have been finalized by the Expert Committee after discussions with the automobile and oil industry as per Auto Fuel Policy.

Annexure IV-P

(See Rule 115A (7))

Diesel Fuel Specifications

Characteristics	Minimum	Maximum	Test Method
Cetane Number	52	54	EN-ISO 5165
Density at 15°C (kg/m ³)	833	837	EN-ISO 3675
Distillation : in °C			
50% point (OC)	245		
95% point (°C)	345	350	EN- ISO 3405
Final boilingpoint (°C)	-	370	
Flash point (°C)	55		EN 22719
CFPP (°C)		(-) 5	EN 116
Viscosity at 40°C (mm ² /s).	2.5	3.5	EN-ISO 3104
Polycyclic aromatic hydrocarbons (% m/m)	3.0	6.0	IP 391
Sulphur Content (mg/kg)	-	300	ASTM D 5453
Copper Corrosion	-	Class 1	EN-ISO 2160
Conradson carbon residue (10%DR) (%m/m)	-	0.2	EN-ISO 10370
Ash Content (% m/m)	-	0.01	EN-ISO 6245
Water Content (% m/m)	-	0.05	EN-ISO 12937

Neutralisation (strong acid) No. (mg KOH/g)	-	0.02	ASTM D 974
Oxidation Stability (mg/mI)	-	0.025	EN-ISO 122051

Annexure IV-Q
(See Rule 115 E)
Technical specifications of the reference fuel E85

Characteristics	Unit	Minimum	Maximum	Test Method
Research Octane No, RON		95.0	-	EN-ISO 5164
Motor Octane No., MON		85.0		EN-ISO 5163
Density at 15°C	(kg/m ³)	Report		
Vapour Pressure	kPa	40.0	60.0	EN ISO 13016-1(DVPE)
Sulphur Content	'mg/kg	-	10	EN ISO 20846 EN ISO 20844
Oxidation Stability	Minutes	360	-	EN ISO 7536
Existent gum content (Solvent washed)	'mg/100 ml	-	5	EN ISO 6246
Appearance This shall be determined at ambient temperature or 15°C whichever is higher		Clear and bright, visibility free of suspended or precipitated contaminants		
Ethanol and Higher Alcohols	%v/v	83	85	EN 1601 EN 13132 EN 14517
Higher alcohols	%v/v		2.0	
Methanol	%v/v		0.5	

Petrol	%v/v	Balance		EN 228
Phosphorus	Mg/l	0.3 ⁶		ASTM D 3231
Water content	%v/v	0.3		ASTM E 1064
In organic Chloride content	Mg/l	1		ISO 6227
P ^{He}		6.5	9.0	ASTM D 6423
Copper strip corrosion (3h at 50°C)	Rating	Class I		EN ISO 2160
Acidity, (as acetic acid)	% m/m (mg/l)		0.005 (40)	ASTM D 1613
Carbon / Hydrogen ratio		Report		
Carbon / oxygen ratio		Report		

1. The values quoted in the specifications are "True values" In establishment of their limit values the terms of ISO 4259 petroleum products – Determination and application of precision data in relation to methods of test have been applied and in fixing a minimum value, a minimum difference of 2R above zero above zero has been taken in to account; in fixing a maximum and minimum value, the minimum difference is 4R (R=reproducibility). Notwithstanding this measure, which is necessary for technical reasons, the manufacturers of fuels shall nevertheless aim at a zero value where the stipulated maximum value is 2R and at the mean value in the case of quotations of maximum and minimum limits. Should it be necessary to clarify whether a fuel meets the requirements of the specifications, the terms of ISO 4259 shall be applied
2. In case of dispute, the procedure for dissolving the dispute and interpretations of the results based on test method precision, describe in EN ISO 4259 shall be used.

3. In case of national dispute concerning sulphur content, either EN ISO 20846 or EN ISO 20884 shall be called up similar to the reference in the National annex of EN 228.
4. The actual sulphur content of the fuel used for the Type I Test shall be reported.
5. The unleaded petrol content can be determined as 100- minus the sum of the per cent content of water and alcohol.
6. There shall be no intentional addition of compounds containing phosphorus, iron, manganese, or lead to this reference fuel.
7. Ethanol to meet the specification of EN 15376 is the only oxygenate that shall be intentionally added to this reference fuel.

Annexure IV-R

(See Rule 115 E)

Technical specifications of the reference fuel E95

Parameter	Unit	Minimum	Maximum	Test Method
Total alcohol (Etanol including content on higher saturated alcohols)	%m/m	92.4		EN 15721
Other higher saturated mono alcohols (C3-C5)	%m/m		2.0	EN 15721
Methanol	%m/m		0.3	EN 15721
Density at 15°C	(kg/m ³)	793.0	815.0	EN ISO 12185
Acidity, calculated as acetic acid	%m/m		0.0025	EN 15491
Appearance		Bright and clear		
Flash point	°C	10		EN3679
Dry residue	Mg/kg		15	EN 15691
Water content	%m/m		6.5	EN 15489 EN ISO 12937 EN 15692
Aldehydes calculated as acetaldhyde	%m/m		0.1	ASTM D 1617
Sulphur content	Mg/kg		10.0	EN 15485 EN 15486
Sulphates	Mg/kg		4.0	EN 15492
Particulate contamination	Mg/kg		24	EN 12262
Phosphorus	Mg/l		0.20	EN 15487
Inorganic Chloride	Mg/kg		1.0	EN 15484 or EN 15492

Copper	Mg/kg		0.100	EN 15488
Electrical conductivity	$\mu\text{S}/\text{cm}$		2.50	DIN 51627-4 or prEN 15938

1. Additives necessary to fulfil the ED95 fuel specification such as cetane improver as specified by the engine manufacturer, shall be added to the ethanol fuel, as long as no negative side effects are known. If these conditions are satisfied, the maximum allowed amount is 10 % m/m.

Denaturants for ED95 fuel, if required, shall be approved by the vehicle manufacturer or shall be either Ethyl Tert Butyl Ether (ETBE); or Iso butanol; or Methyl Ethyl Ketone (MEK); or Tert butanol or Iso Propanol

2. The values quoted in the specifications are "true values". In establishment of their limit values the terms of ISO 4259 Petroleum products — Determination and application of precision data in relation to methods of test have been applied and in fixing a minimum value, a minimum difference of 2R above zero has been taken into account; in fixing a maximum and minimum value, the minimum difference is 4R (R =reproducibility). Notwithstanding this measure, which is necessary for technical reasons, the manufacturer of fuels shall nevertheless aim at a zero value where the stipulated maximum value is 2R and at the mean value in the case of quotations of maximum and minimum limits. Should it be necessary to clarify whether a fuel meets the requirements of the specifications, the terms of ISO 4259 shall be applied.
3. Equivalent EN/ISO methods will be adopted when issued for properties listed above.
4. Should it be necessary to clarify whether a fuel meets the requirements of the specifications, the terms of EN 15489 shall be applied".

ANNEXURE IV-S

[See rule 115(E)]

Technical specifications of the reference fuel E100

(As per IS 15464:2004)

Sl.No	Characteristics	Requirement
1	Relative density at 15.6/15.6 °C, max	0.7961
2	Ethanol content percent by volume at 15.6/15.6 °C min (excluding denaturant)	99.5
3	Miscibility with water	Miscible
4	Alkalinity	Nil
5	Acidity (as CH ₃ COOH) mg/l, max	30
6	Residue on evaporation percent by mass, Max	0.005
7	Aldehyde content (as CH ₃ CHO) mg/l, max	60
8	Cooper mg/kg, max	0.1
9	Conductivity, µS/m, max	300
10	Methyl alcohol, mg/litre, max	300
11	Appearance	Clear and bright

ANNEXURE IV-S

[See rule 115F]

Technical specifications of the reference fuel B100

Sl.No	Characteristics	Requirement	Method of Test, reference to	
			ISO/ASTM/ EN	[P:] of IS 1448
1	Density@ 150C, kg/m ³	860-900	ISO 3675 ISO 12185 D 4052	[P:16/P:32]
2	Kinematic Viscosity @ 40 0C,cSt	2.5-6.0	ISO 3104	[P:25]
3	Flash Point, Pensky-Martens Closed – Cup test(PMCC)0C minimum	120	ISO 3679	[P:21]
4	Sulphur, mg/kg, maximum	10.0	D 5453	[P:83]
5	Carbon residue (Ramsbottom)(1) per cent by mass, maximum	0.05	D 4530 SO 10370	----
6	Sulphated ash, per cent by mass, maximum	0.02	ISO 6245	[P:4]
7	Water content, mg/kg, maximum	7 500	D 2709 ISO 3733 ISO 6296	[P:40]
8	Total contamination, mg/kg,	24	EN 12662	--

	maximum			
9	Copper corrosion 3 hours @ 50°C maximum	1	ISO 2160	[P:15]
10	Cetane No., minimum	51	ISO 5165	[P:9]
11	Acid value, mg KOH/g, maximum	0.50	EN 14101	[P:1/sec 1]
12	Methanol(2), per cent by mass, maximum	0.20	EN 14110	----
13	Ethanol(3) per cent by mass, maximum	0.20	-----	-----
14	Ester content, per cent by mass, minimum	99.5	EN 14103	-----
15	Free Glycerol, per cent by mass, maximum	0.02	D 6584	----
16	Total Glycerol, per cent by mass, maximum	0.25	D 6584	----
17	Phosphorus, mg/kg, maximum	10.0	D 4951	--
18	Sodium and Potassium , mg/kg, maximum	To report	EN 14108 and EN 14109	---
19	Calcium and Magnesium, mg/kg, maximum	To report	(4)	
20	Iodine value	To report	EN 14111	--
21	Oxidation stability at 110 °C, h, minimum	6	EN 14112	---
22	Mono-glyceride content, per cent by mass, maximum	0.05	EN 14105	--
23	Di-glyceride content, per cent by mass, maximum	0.01	EN 14105	--
24	Tri-glyceride content, per cent by mass, maximum	0.01	EN 14105	--

- (1) Carbon residue shall be run on 100 per cent sample.
- (2) Applicable for fatty acid methyl ester.
- (3) Applicable for fatty acid ethyl ester.
- (4) European method is under development.”.

ANNEXURE IV-T

[See Rule 115 (18)]

Technical specifications of the reference Diesel Fuel (B7)

Parameter	Unit	Limits ¹		Test method
		Minimum	Maximum	
Cetane Index		46.0		EN ISO 4264
Cetane number ²		52.0	56.0	EN ISO 5165
Density at 15 °C	kg/m3	833.0	837.0	EN ISO 12185
Distillation:				
- 50% point	°C	245.0	—	EN ISO 3405
- 95% point	°C	345.0	360.0	EN ISO 3405
- final boiling point	°C	—	370.0	EN ISO 3405
Flash point	°C	55	—	EN ISO 2719
Cloud point	°C	-	-10	EN 23015
Viscosity at 40 °C	mm2/s	2.30	3.30	EN ISO 3104
Polycyclic aromatic hydrocarbons	% m/m	2.0	4.0	EN 12916
Sulphur content	mg/kg	—	10.0	EN ISO 20846 EN ISO 20884
Copper corrosion 3hrs, 50 °C		—	Class 1	EN ISO 2160
Conradson carbon residue (10 % DR)	% m/m	—	0.20	EN ISO 10370
Ash content	% m/m	—	0.010	EN ISO 6245
Total contamination	mg/kg	-	24	EN 12662
Water content	mg/kg	—	200	EN ISO 12937
Acid number	mg KOH/g	—	0.10	EN ISO 6618
Lubricity (HFRR wear scan diameter at 60 °C)	µm	—	400	EN ISO 12156
Oxidation stability @ 110 °C ³	h	20.0		EN 15751
FAME ⁴	% v/v	6.0	7.0	EN 14078

¹ The values quoted in the specifications are 'true values'. In establishment of their limit values the terms of ISO 4259 Petroleum products – Determination and application of precision data in relation to methods of test have been applied and in fixing a minimum value, a minimum difference of 2R above zero has been taken into account; in fixing a maximum and minimum value, the minimum difference is 4R (R = reproducibility). Notwithstanding this measure, which is necessary for technical reasons, the manufacturer of fuels shall nevertheless aim at a zero value where the stipulated maximum value is 2R and at the mean value in the case of quotations of maximum and minimum limits. Should it be necessary to clarify whether a fuel meets the requirements of the specifications, the terms of ISO 4259 shall be applied.

² The range for cetane number is not in accordance with the requirements of a minimum range of 4R. However, in the case of a dispute between fuel supplier and fuel user, the terms of ISO 4259 may be used to resolve such disputes provided replicate measurements, of sufficient number to archive the necessary precision, are made in preference to single determinations.

³ Even though oxidation stability is controlled, it is likely that shelf life will be limited. Advice shall be sought from the supplier as to storage conditions and life.

⁴ FAME content to meet the specification of EN 14214.

ANNEXURE - IV U
[See rule 115(19)]

Specification of Commercial Gasoline Fuel

Characteristics	Unit	Requirements	
		Regular	Premium
Color, visual		Orange	Red
Density @ 150C	Kg/m ³	720-775	720-775
Distillation :			
a) Recovery up to 70 °C (E 70)	% volume	10-55 (summer) 10-58 (other month)	10-55 (summer) 10-58 (other month)
b) Recovery up to 100 0C (E 100)	% volume	40-70	40-70
c) Recovery up to 150 0C (E 150)	% volume	75 min	75 min
d) Final Boiling Point (FBP), max	°C	210	210
e) Residue, max	% volume	2	2
Research Octane Number (RON) min		91	95
Motor Octane Number (MON), min		81	85
Gum content (solvent washed), max	mg/100ml	4	4
Oxidation Stability, min	minutes	360	360
Sulphur, total, max	mg/kg	10	10
Lead content (as Pb), max	g/l	0.005	0.005
Reid Vapour Pressure (RVP) @ 380C, max	kPa	67	67
Vapour Lock Index (VLI)			
a) Summer, max		1050	1050
b) Other months, max	1100	1100	
Benzene Content, max	% volume	1	1
Copper strip corrosion for 3 hrs @ 50°C, max	rating	Class 1	Class 1
Olefin content, max	% volume	21	18
Aromatics content, max	% volume	35	35
Oxygen content, max	% mass	3.7	4.5
Oxygenates Content			
a) Methanol, max	% volume	3	3
b) Ethanol, max	% volume	10	10
c) Iso-propyl alcohol, max	% volume	10	10
d) Iso-Butyl alcohol, max	% volume	10	10
e) Tertiary-butyl alcohol, max	% volume	7	7
f) Ethers containing 5 or more carbon atoms per molecule, max	% volume	15	15
g) Other oxygenates, max	% volume	8	8
Note:			

1. Test methods and other provisions and details along with the requirements as given above shall be issued by Bureau of Indian Standards.
2. The Aromatics content, (max) shall be permitted up to 40% in North Eastern States till 01.04.2023

ANNEXURE - IV V
[See rule 115(19)]

Specification of Commercial Diesel Fuel

Characteristics	Unit	Requirements
Ash, max	% mass	0.01
Carbon Residue (Ramsbottom) on 10 % residue, max	% mass	0.3 without additives
Cetane number (CN), min		51
Cetane Index (CI), min		46
Distillation :		
95% vol. recovery at $^{\circ}\text{C}$, max	$^{\circ}\text{C}$	360
Flash point :		
a) Abel, min	$^{\circ}\text{C}$	35
Kinematic Viscosity @ $40\ ^{\circ}\text{C}$	cst	2.0-4.5
Density @ $15\ ^{\circ}\text{C}$, max	kg/m ³	845
Total Sulphur, max.	mg/kg	10
Water content, max	mg/kg	200
Cold filter Plugging point (CFPP)		
a) Summer, max	$^{\circ}\text{C}$	18
b) Winter, max	$^{\circ}\text{C}$	6
Total contaminations, max	mg/kg	24
Oxidation stability, max	g/m ³	25
Polycyclic Aromatic Hydrocarbon (PAH), max	% mass	8
Lubricity, corrected wear scar diameter @ $60\ ^{\circ}\text{C}$, max	$\mu\text{m}(\text{microns})$	460
Copper strip corrosion for 3 hrs @ 500C rating Class - 1		
FAME content max.	% v/v	7.0

Note :

1. Test methods and other provisions / details along with the requirements as given above shall be issued by Bureau of Indian Standards.
2. The Cetane number (CN),(min) shall be permitted up to 48 in North Eastern States till 01.04.2023

ANNEXURE - IV W
[See rule 115(18)]

Technical Specification of Reference Hydrogen Fuel.

Characteristics	Units	Limits		Test Method
		Minimum	Maximum	
Hydrogen Purity	% mole	98	100	ISO 14687-1
Total Hydrocarbon	$\mu\text{mol/mol}$	0	100	ISO 14687-1
Water ¹	$\mu\text{mol/mol}$	0	2	ISO 14687-1
Oxygen	$\mu\text{mol/mol}$	0	2	ISO 14687-1
Argon	$\mu\text{mol/mol}$	0	2	ISO 14687-1
Nitrogen	$\mu\text{mol/mol}$	0	2	ISO 14687-1
CO	$\mu\text{mol/mol}$	0	1	ISO 14687-1
Sulphur	$\mu\text{mol/mol}$	0	2	ISO 14687-1
Permanent Particulates ³				ISO 14687-1

⁽¹⁾Not to be condensed

⁽²⁾Combined water, oxygen, nitrogen, argon: 1.900 $\mu\text{mol/mol}$.

(3)The hydrogen shall not contain dust, sand, dirt, gums, oils or other substances in an amount sufficient to damage the fuelling station equipment of the vehicle (engine) being fuelled.

Annexure-IV X
[See Rule 115]

Technical specification for Reference fuel E-5

Parameter	Unit	Limits¹		Test method
		Minimum	Maximum	
Research octane number, RON		95.0	-	EN25164/prENISO5164
Motor octane number, MON		85.0	-	EN25163/prENISO5163
Density at 15°C	kg/m ³	743	756	ENISO 3675/ENISO12185
Vapour pressure	kPa	56.0	60.0	ENISO 13016-1(DVPE)
Water content	%v/v		0.015	ASTME 1064
Distillation:				
-Evaporated at 70°C	%v/v	24.0	44.0	ENISO3405
-Evaporated at 100°C	%v/v	48.0	60.0	ENISO 3405
-Evaporated at 150°C	%v/v	82.0	90.0	ENISO 3405
-Final boiling point	°C	190	210	ENISO 3405
Residue	%v/v	—	2.0	ENISO 3405
Hydro-carbon analysis:				
-Olefins	%v/v	3.0	13.0	ASTMD1319
-Aromatics	%v/v	29.0	35.0	ASTMD1319
-Benzene	%v/v	-	1.0	EN12177
-Saturates	%v/v		Report	ASTM1319
Carbon/hydrogen ratio			Report	
Carbon/oxygen ratio			Report	
Induction period ²	minutes	480	-	ENISO 7536
Oxygen content 4 %	m/m		Report	EN1601
Existent gum	mg/m	1 -	0.04	ENISO 6246
Sulphur content ³	mg/kg	-	10	ENISO 20846/ENISO20884
Copper corrosion		-	Class 1	ENISO 2160
Lead content	mg/l	-	5	EN237
Phosphorus content	mg/l	-	1.3	ASTMD3231
Ethanol 5	%v/v	4.7	5.3	EN1601/EN 13132

¹ The values quoted in the specifications are "truevalues". For establishing the limit values, the terms of ISO4259:2006 (Petroleum products— Determination and application of precision data in relation to methods of test) have been applied and for fixing a minimum value, a minimum difference of 2 R above zero has been taken into account; for fixing a maximum and minimum value, the minimum difference is 4R (R=reproducibility).

Notwithstanding this measure, which is necessary for technical reasons, the fuel manufacturer shall nevertheless aim at a zero value where the stipulated maximum value is 2R and at the mean value when quoting maximum and minimum limits. Should it be necessary to clarify whether a fuel meets the requirements of the specifications, the terms of ISO4259:2006 shall be applied.

²The fuel may contain oxidation inhibitors and metal deactivators normally used to stabilize refinery petrol streams, but detergent/dispersive additives and solvent oils shall not be added.

³The actual sulphur content of the fuel used for the type I test shall be reported.

⁴Ethanol meeting the specification of prEN15376 is the only oxygenate that shall be intentionally added to the reference fuel.

⁵There shall be no intentional addition to this reference fuel of compounds containing phosphorus, iron, manganese or lead.

Annexure IV-XA

[See Rule 115]

Technical specification for Reference Gasoline fuel (E10)

SI.No	Parameter	Unit	Limits1		Test method
			Min	Max	
(1)	(2)	(3)	(4)	(5)	(6)
1.	Research octane number, RON ⁶		95.0	98.0	EN ISO 5164
2.	Motor octane number, MON ⁶		85.0	89.0	EN ISO 5163
3.	Density at 15° C	kg/m ³	743.0	756.0	EN ISO 12185
4.	Reid Vapor Pressure (RVP)	kPa	56.0	60.0	EN 13016-1
5.	Water content	% v/v	Max 0.05 [Appearance at - 7°C : Clear and Bright]		EN 12937
6.	Distillation:				
7.	- evaporated at 70o C	% v/v	34.0	46.0	EN ISO 3405
8.	- evaporated at 100o C	% v/v	54.0	62.0	EN ISO 3405
9.	- evaporated at 150o C	% v/v	86.0	94.0	EN ISO 3405
10.	- final boiling point	oC	170	195	EN ISO 3405
11.	Residue	% v/v	---	2.0	EN ISO 3405
12.	Hydrocarbon analysis:				
13.	- olefins	% v/v	6.0	13.0	EN 22854
14.	- aromatics	% v/v	25.0	32.0	EN 22854
15.	- benzene	% v/v	---	1.00	EN 22854 EN 238
16.	- saturates	% v/v	report		EN 22854
17.	Carbon/hydrogen ratio		report		
18.	Carbon/oxygen ratio		report		
19.	Induction period 2	minutes	480	---	EN ISO 7536
20.	Oxygen content 4	% m/m	3.3	3.7	EN 22854
21.	Solvent washed gum (Existent gum content)	mg/100ml	---	4	EN ISO 6246
22.	Sulphur content 3	mg/kg	---	10	EN ISO 20846 EN ISO 20884
23.	Copper corrosion 3 hrs, 50°C		---	Class 1	EN ISO 2160
24.	Lead content	mg/l	---	5	EN 237
25.	Phosphorus content 5	mg/l	---	1.3	ASTM D 3231
26.	Ethanol 4	% v/v	9.0	10.0	EN 22854

Notes:- The values quoted in the specifications are "true values". For establishing the limit values the terms of ISO 4259 (Petroleum products. Determination and application of precision data in relation to methods of test) have been applied and in fixing a minimum value, a minimum difference of 2 R above zero has been taken into account; in fixing a maximum and minimum value the minimum difference is

4R (R= reproducibility).

Notwithstanding this measure, which is necessary for technical reasons, the fuel manufacturer shall nevertheless aim at a zero value where the stipulated maximum value is 2R and at the mean value when quoting maximum and minimum limits.

Should it be necessary to clarify whether a fuel meets the requirements of the specifications the terms of ISO4259 shall be applied.

- 1 The fuel may contain oxidation inhibitors and metal deactivators normally used to stabilize refinery petrol streams, but detergent/dispersive additives and solvent oils shall not be added.
- 2 The actual sulphur content of the fuel used for the type I test shall be reported.
- 3 Ethanol meeting the specification of EN15376 is the only oxygenate that shall be intentionally added to the reference fuel.
- 4 There shall be no intentional addition of compounds containing phosphorus, iron, manganese lead to this reference fuel.
- 5 A correction factor of 0.2 for MON and RON shall be subtracted for the calculation of the final result in accordance with EN 228:2008.

Annexure IV-Y

[See Rule 115H]

Technical specification for Reference fuel M 15*

Parameter	Unit	Limits ¹		Test method ²
		Minimum	Maximum	
Research octane number, RON		91	-	EN ISO 5164
Motor octane number, MON		81	-	EN ISO 5163
Density at 15° C	kg/m ³	Report		ISO 3675
Vapor Pressure (VP)	kPa	-	60.0	EN ISO 13016- (DVPE)
Sulphur content ^{3,4}	Mg/kg	-	50	EN ISO 20846 EN ISO 20884
Oxidation stability	Minutes	360		EN ISO 7536
Existent gum content (solvent washed)	mg/(100 ml)	-	5	EN ISO 6246
Appearance This shall be determined at ambient temperature or 15° C whichever is higher		Clear and bright visibly free of suspended or precipitated contaminants		Visual inspection

Methanol	%v/v	-	15	EN 1601 EN 13132 EN 14517
Vapour Lock Index		750	950	
Distillation residue	%v/v	2		
Phosphorus	mg/l	0.3 ⁶		ASTM D 3231
Water content	%v/v		0.1	ASTM E 1064
Other oxygenates	%(m/m)		10	
Copper corrosion 3 hrs, 50°C	Rating	Class I		EN ISO 2160
Acidity, (as aceitic acid CH ₃ COO ₄)	%m/m (mg/l)	-	0.005(40)	ASTM D 1613
Carbon/hydrogen or carbon/oxygen ratio		Report		
Additive	%v/v	2		

(*To be replaced by BIS Specifications when published)

Notes.-.

1. The values quoted in the specifications are "true values". In establishment of their limit values the terms of ISO 4259 Petroleum products - Determination and application of precision data in relation to methods of test have been applied and in fixing a minimum value. a minimum difference of 2R above zero has been taken into account: in fixing a maximum and minimum value. the minimum difference is 4R (R = reproducibility). Notwithstanding this measure. which is necessary for technical reasons. the manufacturer of fuels shall nevertheless aim at a zero value where the stipulated maximum value is 2R and at the mean value in the case of quotations of maximum and minimum limits. Should it be necessary to clarify whether a fuel meets the requirements of the specifications. the terms of ISO 4259 shall be applied

2. In case of dispute, the procedure for dissolving the dispute and interpretations of the results based on test method precision. Described in EN ISO 4259 shall be used.

3. In case of national dispute concerning sulphur content, either EN ISO 20846 or EN IS 20884 shall be called up similar to the reference in the National annex of EN 228.

4. The actual sulphur content of the fuel used for the Type I Test shall be reported.

5. The unleaded petrol content can be determined as 100 minus the sum of the percent content of water and alcohol.

6. There shall be no intentional addition of compounds containing phosphorus. iron. manganese. or lead to this reference fuel.

Annexure IV-Z

[See Rule 115H]

Technical specifications of the reference fuel M100*

Parameter	Unit	Limits	Test method²
Appearance		Bright and Clear	Visual Inspection
Purity on dry basis	%v/v	Min 99.85	IMPCA 001-14
Acetone	mg/kg	Max 30	
Ethanol	mg/kg	Max 50	
Colour	Pt-Co	Max 5	ASTM D1209-11
Water Content	%v/v	Max 0.1	ASTMEI064-11
Distillation Range at 760 mm Hg	°C	Max 1	ASTM D1078-II
Specific Gravity	20°/20°	0.791-0.793	ASTM D-4052-11
Potassium Permanganate Time Test at 15°C	Min	Min 60	ASTM D I363-II
Chloride	mg/kg	Max 0.5	IMPCA 002-98
Sulphur	mg/kg	Max 0.5	ASTM D3961—98
Hydrocarbons		Pass test	ASTM D 1722-09
Acidity	mg/kg	Max 30	ASTMD 1613—12
Iron content	mg/kg	Max 0.1	ASTM E 394-09
Non volatile Matter	Mg/1000 ml	Max8	ASTMD1353-13
Carbonizable Substances		mg/kg	Max 30
Additives	%v/v	Max2	
Aromatics		Optional	

(*To be replaced by BIS Specifications when published)

Annexure IV-ZA

[See Rule 115H]

Technical specifications of the reference fuel [MD95]¹

Parameter	Unit	Limits¹		Test method²
		Minimum	Maximum	
Total alcohol (Methanol including come on higher saturated alcohols)	%m/m	92.4		EN 15721
Other higher saturated monoalcohols (C3-C5)	%m/m		2.0	EN 15721
Density 15°C	Kg/m ³	793.0	815.0	EN ISO 12185
Acidity. calculated as acetic acid	%m/m		0.0025	EN15491
Appearance		Bright and Clear		
Flashpoint	°C	10		EN 3679

Dry residue	mg/kg		15	EN 15691
Dry residue	mg/kg		15	EN 15691
Water content	%m/m		6.5	EN 15489 ⁴ EN-ISO 12937 EN15692
Aldehydes calculated as acetaldhyde	%m/m		0.0050	ISO I388-4
Esters calculated as cthylacetat	%m/m		0.1	ASTM D1617
Sulphur content	mg/kg		10.0	EN 15485 EN 15486
Sulphates	mg/kg		4.0	EN 15492
Particulate contamination	mg/kg		24	EN 12662
Phosphorus	mg/l		0.20	EN 15487
Inorganic chloride	mg/kg		1.0	EN 15484 or EN 15492.
Copper	mg/kg		0.100	EN 15488
Electrical Conductivity	uS/cm		2.50	DIN 51627-4 or pr EN 15938

Notes-

1. Additives are necessary to fulfil the MD95 fuel specification such as octane improver as specified by the engine manufacturer, shall be added to the methanol fuel, as long as no negative side effects are known. If these conditions are satisfied, the maximum allowed amount is 10 % m/m.
2. The values quoted in the specifications are "true values". In establishment of their limit values the terms of ISO 4259 Petroleum products — Detennination and application of precision data in relation to methods of test have been applied and in fixing a minimum value, a minimum difference of 2R above zero has been taken into account; in fixing a maximum and minimum value, the minimum difference is 4R (R=reproducibility). Notwithstanding this measure, which is necessary for technical reasons. The manufacturer of fuels shall nevertheless aim at a zero value where the stipulated maximum value is 2R and at the mean value in the case of quotations of maximum and minimum limits. Should it be necessary to clarify whether a fuel meets the requirements of the specifications, the terms of ISO 4259 shall be applied.
3. Equivalent EN/ISO methods will be adopted when issued for properties listed above.
4. Should it be necessary to clarify whether a fuel meets the requirements of specifications the tenns of EN 15489 shall be applied."

ANNEXURE IV-ZB
[Refer rule 115 H]
TECHNICAL SPECIFICATIONS OF THE REFERENCE FUEL M85

Sl. No.	Parameter	Unit	Limits ¹		Test method ²
			Minimum	Maximum	
(1)	(2)	(3)	(4)	(5)	(6)
1.	Research octane number, RON		107.0	109.0	EN ISO 5164
2.	Motor octane number, MON		99.0	104.0	EN ISO 5163
3.	Density at 15 °C	kg/m ³	Report		ISO 3675
4.	Vapour pressure	kPa	48.0	62.0	EN ISO 13016-1(DVPE)
5.	Sulphur content ^{3,4}	mg/kg	-	160	EN ISO 20846 EN ISO 20884
6.	Oxidation stability	minutes	360		EN ISO 7536
7.	Existent gum content (solvent washed)	mg/(100 ml)	-	20	EN-ISO 6246
8.	Ethanol and higher alcohols ⁷	% V/V	80	84	EN 1601, EN 13132 EN 14517
9.	Higher alcohols (C3-C8)	% V/V	-	2.0	ASTM D 5797
10.	Petrol ⁵	% V/V	Balance		EN 228
11.	Phosphorus	mg/l	0.26		ASTM D 3231
12.	Water content	% V/V	0.5		ASTM E 1064
13.	Inorganic chloride content	mg/l	1		ISO 6227
14.	pHe		3.0	6.0	ASTM D 6423
15.	Copper strip corrosion (3h at 50 °C)	Rating	Class 1		EN ISO 2160
16.	Acidity, (as acetic acid CH ₃ COOH)	% m/m(mg/l)	-	0.006(50)	ASTM D 1613
17.	Carbon/hydrogen ratio		report		
18.	Carbon/oxygen ratio		report		

Notes:-

1. The values quoted in the specifications are nominal values and tolerances are specified in ISO 4259.
2. In case of dispute, the procedure for dissolving the dispute and interpretations of the results based on test method precision, as described in EN ISO 4259 shall be used.
3. In case of national dispute concerning sulphur content, either EN ISO 20846 or EN IS20884, as the case may be, shall be called up.
4. The actual sulphur content of the fuel used for the Type I Test shall be reported.
5. The unleaded petrol content can be determined as hundred minus the sum of the percent content of water and alcohol.
6. There shall be no intentional addition of compounds containing phosphorus, iron, manganese or lead to this reference fuel.

ANNEXURE IV-ZC

[Refer rule 115 I]

Technical specifications of the reference fuel DME or D100

Sr.No.	Characteristic	Requirement (Maximum)	Units	Test Method
(1)	(2)	(3)	(4)	(5)
1	DME Purity	98.5	% by mass	ISO 16861: 2015
2	Methanol	0.05	% by mass	ISO 17196:2014.
3	Water	0.03 %	by mass	ISO 17197:2014.
4	Hydrocarbons upto C4	1.00	% by mass	ISO 17196:2014
5	Carbon Dioxide	0.10 %	by mass	ISO 17196:2014
6	Carbon Monoxide	0.010	% by mass	ISO 17196:2014
7	Methyl Formate	0.05	% by mass	ISO 17196:2014
8	Ethyl Methyl Ether	0.20	% by mass	ISO 17196:2014
9	Evaporation Residues	0.0070	% by mass	ISO 17786:2015
10	Total Sulphur	3.0	mg/kg	ISO 7198:2014.I.

Annexure V

[See rule 132(2)]

Transport emergency card (road)

Cargo	Mention chemical identity of the dangerous and hazardous goods
Nature of hazard
Protective devices
Emergency action	Notify police and fire brigade immediately
Spillage
Fire
First-aid-	Additional information provided by the manufacturer or sender.
	Telephone

[ANNEXURE VI

[See rule 1-A]

Specimen Of Objective Examination of a Driver

1. You are driving upto an intersection where there is no signal, people are crossing in front of your car, you should
 - (a) continue into the intersection without reducing speed
 - (b) slow down and be careful
 - (c) stop and allow persons to cross the road.

2. You wish to take a "U" turn at an intersection controlled by a traffic light, you should

- (a) drive to another intersection that has no traffic light
- (b) wait until the light turns green before making the "U" turn
- (c) make the "U" turn if there is a policeman at the intersection.

3. You are driving towards an intersection where flashing yellow traffic light is displayed, you should

- (a) slow down and proceed with caution
- (b) stop, if possible to do so safely
- (c) continue at the same speed.

4. You are driving on a two-lane street, the vehicle in front of you is moving very slowly, and the road ahead is clear for overtaking, you should

- (a) pass the vehicle from the left hand side
- (b) pass the vehicle from the right hand side
- (c) pass the vehicle from any convenient side.

5. Your car is involved in an accident hurting people, you should

- (a) report to the nearest police station and take the persons to the hospital
- (b) need not report to the police station
- (c) need not report to the police station but should take the persons to the hospital.

6. While driving, to make a right turn, the proper hand signal is

- (a) extend right palm in a horizontal position outside of and to the right of vehicle with palm of the hand turned to the front
- (b) extend right arm and rotate in anti-clockwise direction
- (c) extend right arm with palm downward and move up and down several times.

7. A pedestrian is crossing the street at an intersection in an unmarked cross-walk, you should

- (a) yield to the pedestrian the "right of way"
- (b) proceed with care as pedestrian is "Jay-walking"
- (c) reduce speed and warn pedestrian.

8. While driving, you wish to change from one lane to another, you should

- (a) give the proper turn signal
 - (b) change lanes only when it is safe to do so by giving the proper turn signal
 - (c) never change lanes as it is against the law.
9. You approach an intersection that does not have traffic lights, a policeman or traffic signs, you should
- (a) slow down and use caution
 - (b) come to a full stop
 - (c) not change speed if the way is clear.
10. You have a valid learner's license to drive a car, you should
- (a) drive only in daylight hours
 - (b) have someone with a valid driver's license on the seat beside you when you drive
 - (c) practice driving only on streets that have very little traffic.]

[ANNEXURE VII]

[See Table below rule 62(1)]

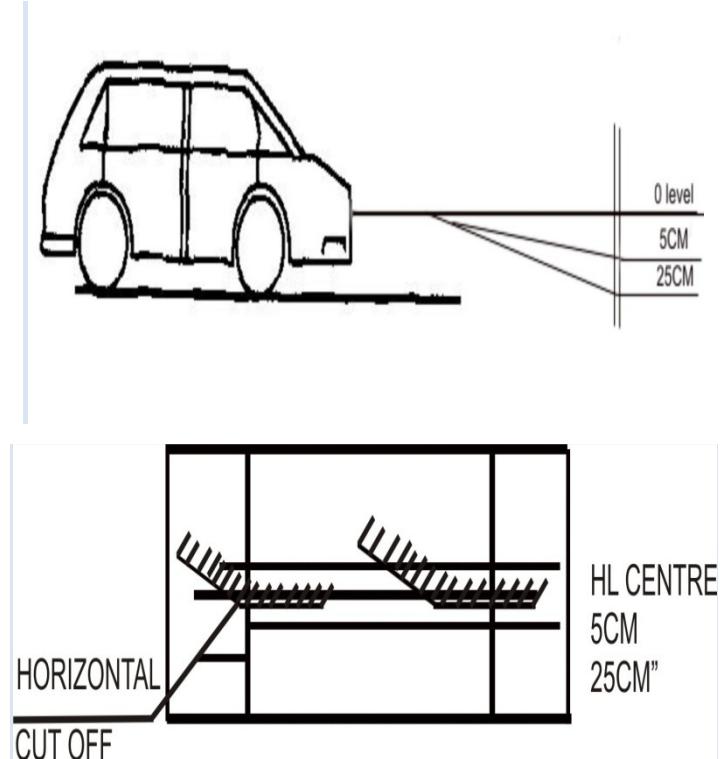
CHECK HEAD LAMP BEAM

The Horizontal cut off of the passing beam when tested at 10 metres.

Distance in an unladen condition of the vehicle shall be always below the head lamp center line and the difference shall be within 5 cm to 25 cm.

Note- Each head lamp shall be checked individually by blocking the other lamp.]

FIGURE



ANNEXURE VIII

[See clause (c) of sub-rule (4) and sub-rule (9) of rule 115-C]

Safety checks for use of lpg fuel in four-wheeled vehicles and above (as per AIS 026)and two-wheeled and three-wheeled vehicles (as per) AIS 027) and indian gas cylinder rules, 1981

(as amended from time to time)

LPG Kit Component	[Approving/Certifying/Verifying Authority]	Clause of AIS 026/027/Other Rules, Standards, etc.
⁸⁶ [(1)(a) Cylinder for four-wheelers and above	*Department of Explosives, Nagpur to approve/endorse in case of foreign make	*ECE-R-67-01 or IS:14899-2000 or as approved under Gas Cylinder Rules, 1981
(b) Cylinder for two-wheelers and three-wheelers	*Department of Explosives, Nagpur to approve/endorse in case of foreign make	*ECE-R-67-01 or IS:14899-2000 or as approved under Gas Cylinder Rules, 1981
(2) Cylinder Valves/Multi Function Valve	*Department of Explosives, Nagpur to approve/endorse in case of foreign make	*ECE-R-67-01 or IS:15100-2001 or as approved under Gas Cylinder Rules, 1981]
(3) Regulator/vaporizer*	Testing or verification of certificate with test report by Test Agency as per United Nations Economic Commission for Europe Regulation No. 67 Rev.1	United Nations Economic Commission for Europe Regulation No. 67 Rev.I Note:-Regulator/vaporizer is to be tested, as per Economic Commission for Europe Regulation No. 67(Rev.1), including endurance test for 6,000 number of cycles
(4) Gas-Air Mixer*	Testing/verification of certificate with test report by Test Agency as per United Nations Economic Commission for Europe Regulation No. 67 Rev.1	United Nations Economic Commission for Europe Regulation No. 67 Rev.1
(5) Petrol and Gas Solenoid Valves*	Testing/verification of certificate with test report by Test Agency as per United Nations Economic Commission for Europe Regulation No. 67 Rev.1	United Nations Economic Commission for Europe Regulation No. 67 Rev.1 or equivalent standard. Note:-Petrol solenoid valve is to be tested, as per Economic Commission for Europe Regulation No. 67 (Rev. 1), for endurance only at a pressure 1.5 times the working pressure for 6,000 number of cycles.
(6) Inspection, Testing and Commissioning Certificate (a) Leak testing (b) Excess flow valve test* (c) Automatic fill limiter* (d) Compartment/sub-compartment	To be tested by Test Agency	Clause 14 of AIS 026/AIS 027
(7) Filling Connection	Installation on vehicle to be checked by Test	As per Appendix A, Clause (d) of

	Agency	AIS 026/AIS 027
(8) Ventilation	Test agency to verify	Clause 8(E) of AIS 026/AIS 027
(9) Testing of Conduit*	Testing/Verification of Certificate with Test Report by Test Agency as per equivalent standard	Clause 8(F)(iii) of AIS 026/AIS 027
(10)(a) LPG Fuel line exceeding 4.5 kg/cm ²		Clause 9 of AIS 026/AIS 027
*Pressure testing	Testing/Verification of Certificate with Test Report by Test Agency as per equivalent standard	Clause 9(i) of AIS 026/AIS 027
*Size of tube as per engine capacity	Manufacturer's declaration to be verified by Test Agency	Clause 9(ii) of AIS 026/AIS 027
*Fitment on vehicle	Verification by Test Agency as per Safety Code of Practice	Clause 9(v)f of AIS 026/AIS 027
(b) Flexible Hose/fuel line not exceeding* 4.5 kg/cm ²		Clause 10 of AIS 026/AIS 027
*Material	Testing/Verification of Certificate with Test Report by Test Agency as per equivalent standard	Clause 9(ii)(a) of AIS 026/AIS 027
*Fitment on vehicle	Verification by Test Agency as per Safety Code of Practice	Clause 10(b), 9(v) of AIS 026/AIS 027
*Pressure	Testing/Verification of certificate with Test Report by Test Agency as per Equivalent standard	Clause 10(A)(i) of AIS 026/AIS 027
(c) Joints and connections to withstand Pressure without any leakage	Verification by Test Agency	Clause 9(iv) and 10(A) of AIS 026/AIS 027
(11) Compartment/Sub-compartment*	Test to be carried out by Test Agency as per Safety Code of Practice	Clause 8D of AIS 026/AIS 027
(12) Safety check for installation of LPG system	Safety checks to be carried out by Test Agency as per Safety Code of Practice	Relevant clauses of AIS 026/AIS 027

*Certificate issued conforming to equivalent prescribed standards by accredited testing agency of the country of origin or a report issued by internationally accredited test laboratory may also be accepted.

Note:-Only the latest version of all the standards as mentioned, shall be referred for compliance.

[ANNEXURE IX]

[See para E of rule 115-B]

Safety Checks for use of CNG/ Bio-CNG/ LNG Fuels in internal combustion engined vehicles (as per AIS 028) and Indian Gas Cyclinder Rules, 2004
(as amended from time to time)

Sr. No.	CNG/ BIO-CNG/ LNG Kit Component	Certifying/ Verifying Authority	Clause of AIS-028/ Other Rules and Standards
1	CNG/ BIO-CNG/ LNG Cylinder*	PESO, Nagpur to certify or endorse in case of foreign make	Gas Cylinder Rules, 2016 or International standards as endorsed by PESO
1.1	Fitment of cylinder on vehicle	Test agency to verify as per AIS-028	Clause no. 2.3, 2.5 and 2.6 of AIS-028
2	CNG/ LNG (Shut off valve) Cylinder valves*	PESO, Nagpur to certify or endorse in case of foreign make	IS: 3224 (for CNG valves) or Gas Cylinder Rules, 2016 or International standards as endorsed by PESO
3	Regulator (CNG)/ Regulator Vaporiser/ exchanger (LNG)*	Testing of the component as per IS: 15713 or ISO- 15500 by test agency. Alternatively, test agency to verify the test certificate or report conforming to the above standard issued by accredited testing laboratory.	IS: 15713 or ISO-15500
		LNG regulator and Vaporiser/ heat exchanger	ECE R110 or equivalent standard
4	Gas-Air Mixer*	Testing of the component as per IS :15714 or ISO-15500 by test agency. Alternatively, test agency to verify the test certificate or report conforming to the above standard issued by accredited testing laboratory.	IS: 15714 or ISO-15500
5	Gas Injector*	Testing of the component as per ISO-15500 by test agency. Alternatively, test agency to verify the test certificate or report conforming to the above standard issued by accredited testing laboratory.	ISO-15500
6	Petrol Solenoid Valve*	Testing of the component as per IS: 15717 by test agency. Alternatively, test agency to verify the test certificate or report conforming to the above standard issued by accredited testing laboratory.	IS: 15717
6.1	Gas Solenoid Valve*	Testing of the component as per IS: 15712 or ISO- 15500 by test agency. Alternatively, test agency to verify the test certificate or report conforming to the above standard issued by	IS: 15712 or ISO-15500

		accredited testing laboratory.	
		Automatic valve of LNG System shall meet requirements of ECE R110 or equivalent standard.	Automatic Valve for LNG System : ECE R110 or equivalent standard
7	Filling Connection (NZS & NGV-1 type) for CNG/LNG receptacle	Installation on vehicle to be checked by test agency as per AIS-028	Clauses 2.2.2, 2.2.3, 2.2.4, 2.2.5 and 2.2.6 of AIS-028
8	Ventilation	Test agency to verify.	Clause 2.4.2 of AIS-028
9	Testing of Conduit*	Testing of the component or verification of certificate or test report as per IS: 15715 by test agency.	IS: 15715
10	CNG/ BIO-CNG/ LNG fuel line		
10.1	High pressure - exceeding 100 kPa*		
10.1.1	Exceeding 2.15 MPa		
	- Rigid pipe.	Testing of the component or verification of certificate or test report as per IS: 15716 by test agency.	IS: 15716
		LNG rigid pipeline shall meet requirements of ECE R110 or equivalent standard	ECE R 110 or equivalent standard
	- Flexible hose	Testing of the component or verification of certificate or test report as per IS 15718 by test agency.	IS 15718
		LNG pipeline shall meet requirements of ECE R110 or equivalent standard	ECE R110 or equivalent standard
10.1.2	Pressure upto 2.15 Mpa	Testing of the component or verification of certificate or test report as per IS: 15722 by test agency.	IS: 15722 with amendments
		LNG pipeline shall meet requirements of ECE R110 or equivalent standard	ECE R110 or equivalent standard
10.2	Joints and connections*	Testing by test agency.	Clause 3.1.4.1, 3.2.1 (b) of AIS-028
		LNG joints & connection shall meet requirements of ECE R110 or equivalent standard.	ECE R110 or equivalent standard
11	Compartment or Sub-compartment*	Testing of the component or verification of certificate or test report as per IS: 15720 by test agency.	IS: 15720
12	Specific components	<p>LNG</p> <p>(a) Following specific components, as applicable shall meet requirements of ECE R 110 or other International standards</p> <p>(b) Electronic Control Unit, Pressure and/ or temperature sensor (if not part of LNG cylinder)</p>	ECE R 110 or equivalent standard
13	Safety check for installation of CNG/	Safety checks to be carried out by test agency as per AIS-028.	Relevant clauses of AIS-028

BIO-CNG/ LNG system	
---------------------	--

* Certificate issued by accredited testing agency of the country of origin or a report issued by internationally accredited test laboratory may also be accepted.

Note 1 - Only the standards, as amended from time to time, as mentioned above, shall be referred for compliance.

Note 2 – Approvals issued prior to implementation of these rules shall be extended for compliance to above requirements without

Note 3 - Test agency to conduct applicable CMVR test as applicable with commercial available LNG fuel.

Note 4 - For Sl.No. 5 above, the CNG/ BIO-CNG components (except LNG components), shall confirm to the requirements of ISO 15500 with effect from 1st day of October, 2018.".

ANNEXURE X

[(See Item F of rule 115-B and sub-rule (10) of rule 115-C)]

SAFETY AND PROCEDURAL REQUIREMENTS FOR TYPE APPROVAL OF CNG AND LPG OPERATED VEHICLES

Ministry of Road Transport and Highways has prescribed Safety Code of Practice and Procedure to be followed by the test agencies prescribed under CMVR for the purposes of issuing type approval certificates for CNG and LPG operated vehicles. The safety code of practice and type approval procedure to be followed for CNG and LPG operated vehicles is given in AIS 024 (Safety and Procedural Requirements for Type Approval of CNG Operated Vehicles) and AIS 025 (Safety and Procedural Requirements for Type Approval of LPG Operated Vehicles) standards respectively. These documents contain safety code of practice and procedure to be followed for installation of CNG/LPG kits by vehicle manufacturers (OE), kit installers or kit manufacturers or kit suppliers or kit importers. These standards also contain technical specifications of vehicle and kit, checklist for fitness tests of in-use converted vehicles, criteria to authorise kit installer and details about installation.

Role and responsibility of each agency concerned is given in the above referred documents, salient features of which are described below:

Role of Test Agency (Page No. 3 to 6 of AIS 024 and Page Nos. 3 and 4 of AIS 025). - Type Approval of CNG and LPG vehicles is carried out by the test

agencies according to the Safety and Procedural Requirements for Type Approval of CNG/LPG Operated Vehicles. The test agencies carry out type approval certification trials on the vehicles and components submitted by vehicle/kit manufacturers/kit suppliers. Type Approval certification trials basically involve testing and evaluation of vehicles and components for performance and safety and installation checks on the vehicle. If the vehicle meets the type approval norms and prescribed testing for components, type approval certificate is awarded to the vehicle/kit manufacturers/kit suppliers and the vehicle/kit manufacturers/kit suppliers are supposed to manufacture and market the vehicles fitted with kits conforming to those specifications. Necessary owner's manual, service manual, periodical inspection and maintenance instruction and adequate infrastructure to offer after sales service is the responsibility of vehicle/kit manufacturers/kit suppliers.

Responsibility of vehicle/kit manufacturer/kit supplier (Page Nos. 3 and 4 of AIS 024 and Page 3 of AIS 025).-Prime responsibility of the vehicle/kit manufacturers/kit suppliers, as the case may be, is to manufacture and supply the vehicles fitted with CNG/LPG kits conforming to the specifications declared at the time of type approval. Necessary owner's manual giving the instructions about periodical maintenance, safety checks and do's and don'ts is to be prepared by vehicle/kit manufacturers/kit suppliers and provided to the vehicle owners. Necessary tools and gadgets to carry out installation, periodical inspection and maintenance of the vehicle shall be provided. If the kit manufacturer/supplier feels that additional safety instructions need to be provided in the vehicle, then it should be displayed at an appropriate location inside and outside the vehicle. During warranty period vehicle/kit manufacturers/kit suppliers should strictly adhere to the maintenance schedule and give appropriate training to the users. If the vehicle/kit manufacturers/kit suppliers feel that normal training is not sufficient, they should arrange comprehensive training to the users, drivers and other technicians on inspection, operation and maintenance. Vehicle/kit manufacturers/kit suppliers shall establish necessary infrastructure while establishing/appointing service centres/kit installers as per Annexure V of AIS 024 and AIS (15 standards).

Responsibility of Owners/ Users (Clause Nos. 12 and 15 of Annexure V of AIS 024/AIS 025)

- The owner/ driver shall be instructed in the correct way that the gas system and controls function alongwith owner's operation manual for the gas system outlining the following:
 - * Basic gas system explanation with a diagram
 - * Fuel change over switch operation if bi-fuel system is fitted
 - * Starting procedure for cold and hot start
 - * How the vehicle is refueled
 - * In the event of backfiring check procedure and compliance
 - * In the event of gas leak shut off procedure and compliance
 - * Emergency or information contact numbers in the event of emergency
 - Users should comply with all the instructions given by the vehicle manufacturers/ kit installers. Necessary periodic inspection, as listed in owner's manual, shall be carried out by the users.
 - Users should follow the instructions while filling gas and carry out leakage test periodically.
 - Users to insist on appropriate training to be given to the drivers and technicians by vehicle manufacturers/ kit installers/ suppliers. Periodic inspection of valves, pipelines, cylinders and regulator/ vaporizer shall be carried out.
 - In case of malfunctioning of any component, necessary repair and maintenance to be carried out at authorized service station under the assistance/ guidance of installers, vehicle/ kit manufacturers/ suppliers.
 - The vehicle owner shall apply to the concerned registering authority within 14 days of undertaking the alteration for endorsement of particular alteration in the registration certificate mentioning place and date of installation and installation certificate number.
- Statutory Requirements for Registration of Vehicle.-Enhancement of safety can be ensured taking the following measures:-
- While register in every converted bus, vehicle manufacturers/kit installers along with bus body buyers and transport authority shall jointly examine the bus prior to registration. The registration of such a vehicle; half be

done only after signing the report jointly by all the concerned along with the transport authority.

- Details of training module and frequency of training shall be communicated to the users/competent authority such as transport authority/registration authority by vehicle manufacturers/kit installers. User-friendly approach from vehicle manufacturers and kit installers for servicing, maintenance and supply of spare parts is essential. The details shall be worked out prior to placement of order.

- Additional safety features such as 2 Nos. of dry powder type fire extinguishers of 2 kg each shall be provided one in driver's cabin and another in passenger compartment. Gas leakage detector will further enhance safety.

- For electrical installation, flameproof cables shall be used, especially positive terminals shall be locked firmly with all cables and pipes with proper loomng to take care of vibrations; tire retardant material shall be used for seat/upholstery/root and side lining. Safety instructions about alertness in case of gas leakage and Tire hazard shall be displayed.

Note:-The AIS standards referred to in this Annexure are available with the Automotive Research Association of India (ARAD), P.B. No. 832, Pune 411004, India (Fax-91-20-5434190, Website <http://www.araiindia.com>). Copies of this document are also available with the other testing agencies, as referred to in rule 126 of the Central Motor Vehicles Rules, 1989.

[ANNEXURE XI]

[See clause (s) of rule 2, rule 16 and rule 48]

I. Specifications of laminated card type without chip or Smart Card type Driving Licence and Registration Certificate. -

(a) Integrated Circuit Card (ICC, commonly known as contact smart card) or Proximity Integrated Circuit Card (PICC, commonly known as contactless smart card).

(b) ICC shall be compliant to ISO/IEC 7816-1, 2 and 3 while PICC shall be compliant to ISO/IEC 14443-1, 2, 3 and 4.

(c) Both ICC and PICC shall also be compliant to ISO/IEC 7816-4, 8 and 9, IS-16695 Part I, 2018 (commonly known as SCOSTA).

(d) Minimum 10 years data retention for the non-volatile memory in the form of EEPROM or FLASH.

(e) Minimum 300,000 write cycles endurance for the non-volatile memory.

(f) The hardware (controller) shall be in compliance and certified to be EAL4+ (or higher) common criteria certificate along with security target of evaluation of microcontroller (in case of ROM based OS implementation) or of the microcontroller along with Boot loader/Flash loader/Smart Program/Boot Program (in case of Flash based OS implementation) under the Common Criteria Certificate. The common Criteria Certificate refers to BSI-CC-PP-0035-2007/BSI-CC-PP-0084- 2014 (or newer) Protection profile.

(g) The operating system shall be loaded in the Flash Memory or in the ROM with the chip at wafer level in the facility fully owned by the chip manufacturer and shall be locked at that facility in a way that it cannot be altered, modified, erased or deleted either selectively or wholly.

(h) Operating ambient temperature range -25C to +55C.

(i) For Poly Vinyl Chloride (PVC): Glossy surface, Poly Vinyl Chloride (PVC)/Acrylonitrile Butadiene Styrene (ABS)/PetG plastic construction, with overlay to allow colour dye sublimation printing.

(j) For Polycarbonate Card: Multi-layered card construction using pure polycarbonate layer, fused (laminated) together with heat and pressure without any kind of glue or adhesive. Card Body material including outer overlay shall be capable of personalisation through Laser engraving.

II. Material Specifications for Driving License and Registration Certificate. -

(a) Dimension of the Card.- The cards used for the Driving License and Registration Certificate shall be compliant to ISO/IEC 7810 standard as defined for ID-1 unused and returned cards. The tolerances, edge burrs etc. shall be as defined for the ID-1 cards in ISO/IEC 7810 section 5. All dimensions of the card shall be measured as per the ISO/IEC 10373-1 standard as defined in section 5.2 under the standard testing conditions as defined in ISO/IEC 10373-1.

(b) Card Warpage and Surface Distortion. - The maximum distance from a flat rigid plate to any portion of the convex surface of the card shall not be greater than 1.5 mm including the card thickness. Further, the difference between the maximum and minimum thickness of the finished card shall not be more than 0.10 mm. For measuring the maximum and minimum thicknesses, the contact chip shall also be considered. Thus, no point of the entire IC contact surface shall be higher than 0.10 mm above or lower than 0.10 mm below the

adjacent surface of the card. The test shall be carried out using the standard measurement method as described in ISO/IEC10373-1.

(c) Card Material and Construction. - The cards shall be made of Polyvinyl Chloride (PVC), Acrylonitrile Butadiene Styrene (ABS) or PetG or Poly Carbonate (PC) plastic material unless specified otherwise. The card construction shall be made of bonded materials with inserts of the ISO7816-2 compliant contact chip (for ICC) if provided, or with inserts of the ISO144443 compliant contactless chip with associated antenna (for PICC), if provided.

(d) Card Characteristics. - The card characteristics shall be as defined in ISO/IEC 7810 standard as outlined here:-

(i) Bending Stiffness. - (1). The bending stiffness shall be as defined in ISO/IEC 7810. The test procedures shall be as described in ISO/IEC 10373-1 section 5.7. For carrying out the bending stiffness test, the cards shall be exercised in the following four configurations,namely:-

(a) With the embedded chip facing upward and the edge of the card closer to the chip placed towards the clamping device.

(b) With the embedded chip facing upward and the edge of the card closer to the chip placed away from the clamping device.

(c) With the embedded chip facing downward and the edge of the card closer to the chip placed towards the clamping device.

(d) With the embedded chip facing downward and the edge of the card closer to the chip placed away from the clamping device.

(2). The maximum permitted bending deformation shall be identical in all the four configurations.

(ii) Resistance to chemicals. - Cards shall be resistant to the chemicals as described in ISO/IEC 7810 section 8.4. The chemical resistance shall be tested as per the procedure outlined in ISO/IEC 10373-1 section 5.4, using reagents both for short-term and long-term contamination.

(iii) Storage Requirements. - (1). The card characteristics as defined in this section of the document shall remain unaltered for the following range of temperature and humidity as storage requirements, namely:-

(a) Temperature range of 5-40°C.

(b) Relative humidity range of 10-85%.

(2). The cards shall be tested for the bending stiffness after exposing it to the following two environment conditions, namely:-

- (I) 5°C at 10%RH, and
- (II) 40°C at 85%RH.

(3). The exposure for each of these two conditions shall be for one hour in the environment. This test only establishes the card characteristics and does not establish any print quality characteristics, which are defined later.

(iv) Peel Strength. - The peel strength of the component layers of the card material shall be as per the minimum specified in ISO/IEC 7810 section 8.8. The peel strength shall be tested as per the procedure outlined in ISO/IEC 10373-1 section 5.4 with a peeling angle of 90°.

(v) Adhesion Resistance. – (a) When finished cards are stacked together in a stock of 5 cards and applied 1.5 Kg dead weight from the top, kept for 7 days at $40 \pm 3^\circ\text{C}$, 80%RH, no card shall show any adverse effect such as delamination, discolouration or colour transfer to adjacent cards, changes to surface finish, transfer of material from one card to another and deformation. The physical dimension of the all cards shall remain as described in section 5 of this document.

(b) The cards shall be tested for easy separation by hand for randomly chosen cards in the middle of the stack and will be inspected visually for the colour transfer, discolouration, changes in the surface finish etc. The dimension of the cards, card warpage and surface distortion after each test shall be tested to be within the limits as described in this document.

(e) Dynamic Bending. - The cards shall be tested for dynamic bending as per the procedure outlined

in ISO/IEC 10373-1 section 5.8. The hv and hw parameters shall be used as defined in ISO/IEC 10373-1 (i.e. 2mm and 20mm for bending along axis B, and 1mm and 10mm for bending along axis A). The cards shall continue to work electronically after the test is performed with 250 bending each along axis A and axis B and with card contacts facing upwards as well as downwards. The cards shall be tested after the cycle of 1000 bending tests for the following, namely:-

- (i) The dimensions of the card.
- (ii) Card warpage and surface distortion.

(iii) The presence of Answer to Reset (ATR) or Answer to Select (ATS) sequence after insertion in the ISO7816-3 compliant interface device (IFD) or ISO14443-4 compliant proximity coupling device (PCD), as the case may be.

(iv) The contact resistance being within the limits for all contact pads for an ICC.

(f) Dynamic Torsional Stress.-The cards shall be subjected to dynamic torsional stress test as outlined in ISO/IEC 10373-1 section 5.9. The parameters shall be as defined in ISO/IEC 10373-1. After the cycle torsional stress application, the cards shall be tested for the following, namely:-

(i) The dimension of the card.

(ii) Card warpage and surface distortion.

(iii) The presence of Answer to Reset (ATR) or Answer to Select (ATS) sequence after insertion in the ISO7816-3 compliant interface device (IFD) or ISO14443-4 compliant proximity coupling device (PCD), as the case may be.

(iv) The contact resistance being within the limits for all contact pads for an ICC.

(g) Stability against UV Exposure.-The pre-printed layers of the card material shall show no visible degradation of the print quality under the following conditions, namely:-

(i) Exposure to UV lighting for 21 minutes at UV irradiance of 0.12 mW/mm² at 254nm wavelength.

(ii) The cards shall be exposed to such UV light source as per the testing procedure defined in ISO/IEC 10373-1 section 5.11. After the exposure cycle, the cards shall be tested for the following, namely:-

(a) The dimension of the card.

(b) Card warpage and surface distortion.

(c) Bending stiffness test.

(d) The contact resistance being within the limits for all contact pads for an ICC.

(e) Visual print quality for the pre-printed layers, which shall not show any visible degradation, discolouring, change of surface finish or delamination.

(h) Print Quality. – (a) The print shall be verified for the visual appearance of the pre-printed layers, which must not show any visible degradation, discolouring, change of the surface finish, change of the surface colours, and presence of visible unwanted colour marks under the following conditions, namely:-

- (i) Temperature of 0°C with a relative humidity of 10%.
- (ii) Temperature of 46°C with a relative humidity of 90%.

(b) The temperature and relative humidity shall be established in the environment control chambers and the cards shall be exposed for 20 minutes in the corresponding environment condition. After the exposure, the card shall be visually inspected for the print quality on the pre-printed layers of the card material.

(i) Electrical Contacts (applicable for ICC, or contact smart cards only). –

(1). The cards shall

provide the following contacts at location as defined in ISO/IEC 7816-2, namely:-

- (i) C1: supply power input (VCC).
- (ii) C2: reset signal input (RST).
- (iii) C3: clock signal input (CLK).
- (iv) C5: ground (GND).
- (v) C7: bidirectional serial data (I/O).

(2). The maximum and minimum currents and potential on each of these contacts are as defined in ISO/IEC 7816-3.

(j) Mechanical Strength of Card Contacts (applicable for ICC, or contact smart cards only). –

(i) The card should resist damage to its surface, to any components contained in it, and should remain intact during normal use, storage and handling.

(ii) Each contact surface and contact area (entire galvanic surface) shall not be damaged by a working pressure equivalent to a steel ball of diameter 1 mm applying a force of 1.5 N.

(iii) The test shall be carried out by applying the pressure as mentioned above for 5 minutes and checked for card being functional for the presence of ATR in an ISO7816-3 compliant reader.

(k) Electrical Resistance of Card contacts (applicable for ICC, or contact smart cards only). -

The contact resistance of a card contact pad as defined in ISO/IEC 7816-2 should be less than 0.5 _between two points on the same contact pad at a distance of 1.5mm. The card shall be tested for all the five contacts as specified in section 13 of this document at random locations within the contact.

III. Specifications for Printing on the finished card surface. -

(a) Printing Requirements on finished cards. - The finished cards shall be as per the specifications outlined in this document. The finished cards shall then be subjected to personalisation – electronic as well as visual on the card surfaces. Typically, dye sublimation printing is used for visual personalisation. These tests shall be performed after printing on the card surfaces – both bottom as well as top, using the standard card printers being used in the field for visual personalisation. The printing of text and photograph for the testing shall be as typical of any driving license and vehicle registration certificate and as specified in the visual layout for the same.

(b) Ink Adhesion. - (i) The personalised printing on the cards shall show good quality ink adhesion as indicated below. (Ref: IPC-TM-650 Test Method Number 2.4.1 for Adhesion Tape testing).

(ii) With the tape and procedure as described in the test method, the evaluation shall be carried out. The visual examination of the tape used for the testing and the test area of the substrate will be carried out for the ink adhesion performance of the specimen in the following grades, namely:-

Grade 1: No removal of ink (tape will not show any marking of the ink when peeled off).

Grade 2: Slight removal of ink (tape will show markings of the ink but the ink impressions on tape adhesive side will not be readable) amounting to <10% of ink removal.

Grade 3: High removal of ink (the ink impression on the tape adhesive side will be readable) amounting to more than 10% of ink removal.

(c) Exposure to the environmental parameters. - (i) The visually personalized cards shall be tested for ink adhesion after exposing it to the following two environment conditions, namely:-

- (A) 5°C at 10%RH; and
- (B) 40°C at 85%RH.

(ii) The exposure for each of these two conditions shall be for one hour in the environment and the ink adhesion test will be performed immediately after the exposure. The specimen shall show Grade 1 quality for both tests.

(d) Exposure to UV. - The visually personalised cards shall be exposed to UV lighting for 21 minutes at UV irradiance of 0.12 mW/mm² at 254nm wavelength as per the testing procedure defined in ISO/IEC 10373-1 section 5.11. Immediately after the exposure cycle, the visual personalisation shall be tested for the ink adhesion. The specimen shall show Grade 2 or Grade 1 quality for the test.

(e) Stacking and layering. – When visually personalised cards are stacked together in a stock of 5 cards and applied 1.5 Kg dead weight from the top, kept for 2 days at 40 ± 3°C, 80% RH, no printing on the card surfaces shall show any adverse effect discolouration or colour transfer to adjacent cards. The cards after subjecting to this test shall be tested for ink adhesion. The specimen shall show Grade 1 quality for the test.”.

(Substituted vide G.S.R. 174(E) dated 01-03-2019, (w.e.f 01-10-2019)

THE DRIVING LICENCE (CONDITIONS FOR EXEMPTION) RULES, 1992¹

[G.S.R.791(E) Dated 30-09-1992 *Extra., Pt. II, Sec. 3(i), dated 30th September, 1992.*]

In exercise of the powers conferred by section 3(2) of the Motor Vehicles Act, 1988 (59 of 1988), Central Government hereby makes the following Rules, namely:-

1 Short title and commencement. —These rules may be called the Driving Licence (Conditions for Exemption) Rules, 1992.

2. Conditions for grant of exemption. —A person receiving instructions in driving a motor vehicle shall be exempted during training, from the provisions of sub-section (1) of section 3 of the Motor Vehicles Act, 1988 (59 of 1988), subject to the following conditions, that:—

(a) Such person is a trainee undergoing training in an Industrial Training Institute approved by Central or State Government and driving a light motor vehicle with a written permission of the head of an Industrial Training Institute;

(b) Such person is driving a motor vehicle under the supervision of a duly appointed instructor holding a valid driving licence;

(c) Such person shall not give any vehicle other than light motor vehicle of the Industrial Training Institute, specially acquired for such training purposes;

(d) Such person is medically fit to drive;

(e) The speed of the vehicle shall not exceed 15 kms. per hour during the training;

(f) The training shall be imparted only between 10 a.m. and 5 p.m.;

(g) The training shall be imparted only on a light motor vehicle.

RENT A CAB SCHEME, 1989¹

[No. S.O. 437(E) Dated 12-06-1989]

(as subsequently amended)

In exercise of the powers conferred by sub-section (1) of section 75 of Motor Vehicles Act, 1988 (59 of 1988), the Central Government hereby makes the following scheme for regulating the business of renting of motor cabs to persons desiring to drive the cabs for their own use and matters connected therewith, namely:—

1. Short title, commencement and application.—(1) This scheme may be called Rent a Cab Scheme, 1989.

(2) It shall come into force on the first day of July, 1989.

(3) It shall apply to all motor cabs to which tourist permits have been issued under sub-section (9) of section 88 of the Act and operating under a licence granted in terms of para 6.

2. Definitions.—In this section unless the context otherwise requires:

(a) “**Act**” means Motor Vehicles Act, 1988 (59 of 1988);

(b) “**Form**” means of Form appended to this scheme;

(c) “**licence**” means a licence granted or renewed under paragraph 6 to engage in the business of renting of motor cabs to persons desiring to drive the cabs²[***] for their own use;

(d) “**licensing authority**” means the State Transport Authority constituted under sub-section (1) of section 68 of the Act;

(e) “**operator**” means the holder of a permit issued under sub-section (9) of section 88 of the Act in respect of not less than 50 motor cabs.

3. Licensing of operator.—No person shall engage himself in the business of renting a motor cab under this scheme without licence.

4. Application for grant or renewal of licence.—(1) An application for the grant or renewal of a licence under paragraph 6 shall be made in Form 1 to the licensing authority having jurisdiction in the area in which he resides or has his

¹. Vide S.O. 437 (E), dated 12th June, 1989, published in the Gazette of India, Extra. Pt. II, Sec. 3(ii), dated 12th June, 1989.

². Omitted by S.O. 808 (E), dated 28th November, 1991 (w.e.f. 28-11-1991).

principal place of business (hereinafter referred to as main office) and shall be accompanied by a fee of rupees five thousand.

(2) Where the applicant has, besides the main office, branch office within the jurisdiction of the licensing authority referred to in clause (1), the application shall indicate such place with the number of motor cabs proposed to be stationed at each such place.

(3) Where the applicant has branch offices outside the jurisdiction of the licensing authority, the application shall be made to the licensing authority in whose jurisdiction the branch office is situated, in Form 2 accompanied by a fee of rupees one thousand in respect of each such branch offices.

5. Scrutiny of application.—A licensing authority shall, before granting or renewing a licence take into consideration the following namely:—

(i) That applicant has a good moral character and has intimate knowledge of passenger transport business;

(ii) That the main office or the branch office of the applicant is either owned by the applicant or is taken on lease by him or is hired his name and it has adequate space for reception room, administrative section, clock room with locker facilities, sanitary blocks, ³[adequate parking space] for the motor cabs;

(iii) That the applicant has necessary facilities for the housing, maintenance and repair of his vehicles;

(iv) That the applicant has at least one telephone which is accessible throughout day and night;

(v) That the applicant has ⁴[branch offices or sub-licensee offices] with telephones, in not less than 5 cities of tourist importance with facilities for housing, maintenance and repair of vehicles;

(vi) That the financial resources of the applicant are sufficient to provide for the continued maintenance of motor cabs and for the efficient management of the establishment;

(vii) That the applicant maintains not less than 50 motor cabs of which 50 per cent. are airconditioned duly covered by permits issued under sub-section

³. Subs. by S.O. 808 (E), dated 28th November, 1991 (w.e.f. 28-11-1991).

⁴. 6666666666666666

(9) of section 88 of the Act, with comprehensive insurance, fitness certificate, motor vehicles tax paid up to date:

Provided that in the case of licence for a branch office situated in a place outside the jurisdiction of the licensing authority, it shall be sufficient, if such branch office maintains not less than five motor cabs.

6. Grant of licence.—The licensing authority may, on receipt of an application under paragraph 4 and after satisfying himself that the applicant has complied with the requirements of paragraph 5, grant or renew the licence in Form 3 or, as the case may be, in Form 4:

Provided that no application for a licence shall be refused by the licensing authority unless the applicant is given an opportunity of being heard and reasons for such refusal are given in writing by the licensing authority.

7. Duration of licence.—A licence granted or renewed under paragraph 6 shall be valid for a period of five years from the date of grant or renewal:

Provided that in the case of the licence in respect of branch offices referred to under clause (3) of paragraph 4, the validity of such licence shall be restricted to the validity of the licence granted in respect of main office.

8. General conditions to be observed by the holder of the licence.—The holder of a licence shall,—

(i) maintain a register with a separate page for such vehicle containing the particulars specified, in Form 5 and where a motor cab is hired by a foreign national shall maintain a register in Form 6;

(ii) not shift the principal place of business mentioned in the licence without the prior approval in writing of the licensing authority which granted the licence;

(iii) keep the premises and all the records and register maintained and the motor cabs open for inspection at all reasonable times by the licensing authority or by any person not below the rank of motor vehicle inspector as may be authorised in this behalf by the licensing authority;

(iv) submit from time to time, to the licensing authority such information and return as may be called for by it;

(v) display at a prominent place in its main office and its branch offices, the licence issued in original and certified copies thereof, attested by its licensing authority;

(vi) maintain in their main office and branch offices at a conspicuous place a "complaint book" in the Form 7 with serially numbered pages in triplicate. The licensees shall despatch the duplicate copy of complaint if any, to the licensing authority by registered post expeditiously and in any case not later than 3 days;

(viii) maintain a suggestion box in the main office and branch offices and forward their suggestions received with their comments, if any, to the licensing authority, once a month;

(ix) where he is having a foreign collaboration with the approval of the Government, this fact should be displayed in the office premises, with the specific approval of Department of Tourism of the Central Government.

9. Collection of hire charges.—The holder of a licence shall collect the hire charges from a foreign national or a non-resident Indian only in foreign exchange and shall hold for the purpose a licence to transact in foreign exchange.

10. Duties and responsibilities of hirers of motor cabs.—(1) It shall be the duty of every hirer, to keep the holder of the licence, informed of his movements from time to time.

(2) If an individual or company has hired the vehicles as a leader of the tourist party, it shall be the duty of such leader of the party to keep the holder of the licence informed of the movement of each vehicle, from time to time.

⁵[(3) If a hirer so desires, he may engage a person possessing a valid driving licence to drive the vehicle so hired during the period of the hire agreement.]

11. Power of licensing authority to suspend or cancel the licence.—(1) If the Licensing Authority is satisfied after giving the holder of the licence, an opportunity of being heard, that he has —

- (a) failed to comply with the provisions of paragraph 8 or 9; or
- (b) failed to maintain the motor cab in compliance with the provisions of the Act and rules; or
- (c) any one of his employees has misbehaved with the customers; or

⁵. Ins. by S.O. 808 (E), dated 28th November, 1991 (w.e.f. 28-11-1991)

(d) any complaint against the licensee by any hirer has been proved beyond reasonable doubt;

- (i) suspend the licence for a specified period, or
- (ii) cancel the licence.

(2) Where the licence is liable to be cancelled or suspended and the licensing authority is of opinion that having regard to the circumstances of the case, it would not be necessary or expedient to cancel or suspend the licence, if the holder of the licence agrees to pay the fine that may be imposed by the Licensing Authority, then notwithstanding anything contained in clause (1) the Licensing Authority may instead of cancelling or suspending the licence, as the case may be, recover from the holder of the licence, the said fine.

(3) For the purpose of recovery of the sum of money agreed upon, the State Government may, by notification in the Official Gazette, specify the amount recoverable for each day of suspension and the amount recoverable in lieu of cancellation of the licence and specify the time within which the sum of money agreed upon is payable failing which the order passed under clause (1) shall be implemented.

(4) When the licence is suspended or cancelled under clause (1), the holder of the licence shall surrender the licence to the Licensing Authority.

12. Appeal.—Any person aggrieved by any order of the Licensing Authority under paragraph 6 or paragraph 11, may within 30 days of the receipt of the order, appeal to the State Transport Appellate Tribunal.

13. Procedure for appeal.—(1) An appeal under Rule 12 shall be preferred in duplicate in the form of a memorandum setting forth the ground of objections to the order of the Licensing Authority and shall be accompanied by a fee as may be specified by the State Government, by notification, in the Official Gazette.

(2) The State Transport Appellate Tribunal may after giving an opportunity to the parties to be heard and after such enquiry as it may deem necessary, pass appropriate orders.

14. Voluntary surrender of the licence.—The holder of a licence may at any time surrender the licence issued to him to his Licensing Authority which granted the licence and, on such surrender, the Licensing Authority shall cancel the licence. The holder of the licence before surrendering the licence shall clear the dues referred to in clause (2) of paragraph 11.

FORM 1

[See paragraph 4 (1)]

Application for grant or renewal of licence for renting motor cabs in respect of main office

To

The State Transport Authority

..... State/UT

I, the undersigned, hereby apply for a licence for renting motor cabs in the State of
.....

1. Full name
Son/wife/daughter of
2. (a) Full Address:
(b) Telephone No.
3. Age
4. (a) Experience in the management of transport business.
(b) No. of motor cabs held with valid permits.
5. Particulars of Licence, if already held.
6. (a) Place where the applicant has his main office with detailed address.
(b) Place where the applicant has his branch office with detailed address.
Name of Town(s)
(c) The number of motor cabs to be stationed in each branch office.
7. Nature and extent of financial resources of the applicant.
8. Particulars of motor cabs owned alongwith details of Registration Mark.
9. Full description of the place where the business is to be carried on—
(a) Location, open area, covered area.
(b) Any other particulars.
10. I am conversant with the conditions for carrying the business for renting of motor cabs.
11. I hereby declare that to the best of my knowledge and belief the particulars given above are correct and true.

The prescribed fee of rupees five thousand is paid by*.....

Place:

Signature of Applicant

Date:

(*Here indicate mode of payment).

FORM 2

[See paragraph 4 (3)]

Application for grant or renewal of licence for renting of motor cabs in respect of Branch Office, in another State

To

The State Transport Authority

..... State/UT

I, the undersigned, hereby apply for a licence for renting motor cabs in a Branch Office in the

State of.....

1. Full Name

Son/wife/daughter of

2. Full address (Branch Office)

Telephone No.

3. Age

4. (a) Experience in the management of transport business.

(b) Number of motor cabs held with valid permits in the proposed Branch Office.

5. Particulars of Licence, held for Main Office—

(a) Authority which granted the licence.

(b) Date of issue.

(c) Date of expiry.

6. Place where the applicant has Main Office—

7. Nature and extent of financial resources of the applicant.

8. Particulars of motor cabs owned with details of permits, registration number etc.

9. Full description of branch office where the business is to be carried on—

(a) Location, open area, covered area.

(b) Any other particulars.

10. I hereby declare that to the best of my knowledge and belief the particulars given above are correct and true.

The prescribed fee of rupees one thousand is paid by*.....

Place:

Signature of applicant

Date:

(*Indicate the mode of payment).

FORM 3

[See paragraph 6]

Licence for Renting Motor Cabs—Main Office

Name of the operator:

Son/wife/daughter of

Full address of the place of business:

Registration Mark of motor cabs authorised for renting

Main Office

Branch Office

1.

2.

3.

4.

5.

6.

7.

8.

9.

10.

11.

12.

is licensed to rent motor cab.

This licence is issued on.....and is valid up to.....

State Transport Authority
..... State/UT

Renewal

Renewed

from.....to.....

State Transport Authority
..... State/UT

FORM 4
[See paragraph 6]
Licence for Renting Motor Cabs—Branch Office

Name of the operator:

Son/wife/daughter of

Full address of the Branch Office.....

Address where the Main Office is situated.....

Licence number and the Authority which issued the licence with its date of expiry.....

Registration mark of motor cabs authorised for renting in the Branch Office licensed to rent motor cabs.

The licence is issued on.....and is valid up to.....

State Transport Authority
..... State/UT

Renewal

Renewed from.....to.....

State Transport Authority
..... State/UT

FORM 5
[See paragraph 6]
Register to be maintained by Rent a Motor Cab Licensee

Si . No	Name of Hirer	Full Address	Telephone No. if any	Motor Driving Licence No
1	2	3	4	5

Issued by (Authority)	Class of vehicle	Date of issue	Date of Expiry	Date and Time of hire
6	7	8	9	10

Date and Time of returning vehicle	Motor vehicle used for total kilometers	Signature of Hirer	Remarks
11	12	13	14

FORM 6
[See paragraph 8(i)]

Register to be maintained by Rent a Motor Cab Licensee in case where the motor cab is hired to a foreigner

Sl. No.	Name of Hirer	Full Address	Telephone No. if any	Motor Driving Licence No.	Issued by (Authority)	Class of vehicle
1	2	3	4	5	6	7

Date of issue	Date of Expiry	Passpo rt No.	Issued by Authority and State/Nation	Date of issue of Passport	Date of Expir y	Date of birth as per passport
8	9	10	11	12	13	14

Driving permit No. if any	Date of issue of Driving permit	Class of vehicle Authorised to drive	Date and Time of Hire	Date and time of returning vehicle	Motor vehicle used for total km	Signature of Hirer	Remarks
15	16	17	18	19	20	21	22

FORM 7
[See paragraph 8(vi)]
Complaint Book
(with pages serially numbered in triplicate)

1. Name of the complainant:
2. Full address:
3. The name and address of the holder of the licence for 'Rent a Cab'
4. Licence number, and the authority which issued the licence
5. The date and time of hiring the vehicle and date and time when the vehicle was returned
6. Vehicle number

Complaint in brief:

Date:

Place:

Signature

1. The State Transport Authority by Registered Post(Duplicate copy)
2. The complainant(Triplicate copy)

RENT A MOTOR CYCLE SCHEME, 1997¹

[No. S.O. 375(E) Dated 12-05-1997]

(as subsequently amended)

In exercise of powers conferred by section 75 of the Motor Vehicles Act, 1988 (59 of 1988), Central Government hereby makes the following scheme for regulating the business of renting of Motor Cycles to persons desiring to drive the motor cycles for their own use and matters connected therewith, namely:—

1. Short title, commencement and application.—(i) This scheme may be called Rent a Motor Cycle Scheme, 1997.

(ii) It shall come into force on the date of its publication in the Official Gazette.

(iii) It shall apply to motor cycles to which permits have been issued under sub-section (1) of section 74 of the Act and operating under a licence granted in terms of para 6.

2. Definitions.—In this scheme unless the context otherwise requires:—

(i) “**Act**” means Motor Vehicles Act, 1988 (59 of 1988);

(ii) “**Form**” means a form appended to this scheme;

(iii) “**licence**” means a licence granted or renewed under paragraph 6 to engage in the business of renting of motor cycles to persons desiring to drive the motor cycles themselves for their own use;

(iv) “**licensing authority**” means the State Transport Authority constituted under subsection (1) of section 68 of the Act;

(v) “**operator**” means the holder of permit issued under sub-section (1) of section 74 of the Act in respect of not less than 5 motor cycles;

(vi) “**scheme**” means the Rent a Motor Cycle Scheme, 1997.

3. Licensing of operator.—No person shall engage himself in the business of renting a motor cycle under this scheme without a licence.

4. Application for grant or renewal of licence.—An application for the grant or renewal of a licence under paragraph 6 shall be made in Form 1 to the licensing

¹. Vide S.O. 375 (E), dated 12th May, 1997, published in the Gazette of India, Extra., Pt. II, Sec. 3(ii), dated 12th May, 1997.

authority having jurisdiction in the area in which he resides or has his principal place of business and shall be accompanied by a fee of rupees one thousand.

5. Scrutiny of application.—A licensing authority shall, before granting or renewing a licence take into consideration the following, namely:—

(i) That the applicant has a good moral character and has intimate knowledge of passenger transport business;

(ii) That the applicant has necessary facilities for the housing, maintenance and repair of his vehicles, sanitary block and reception room;

(iii) That the applicant has at least one telephone which is accessible throughout day and night;

(iv) That the financial resources of the applicant are sufficient to provide for the continued maintenance of motor cycle and for the efficient management of the establishment;

(v) That the applicant maintains not less than 5 motor cycles duly covered by permits issued under sub-section(1) of section 74 of the Act, with comprehensive insurance, fitness certificates, motor vehicle tax paid upto date.

6. Grant of licence.—The licencing authority may, on receipt of an application under paragraph 4 and after satisfying himself that the applicant has complied with the requirements of paragraph 5, grant or renew the licence in Form 2:

Provided that no application for licence shall be refused by the licensing authority unless the applicant is given an opportunity of being heard and reasons for such refusal are given in writing by the licensing authority.

7. Duration of licence.—A licence granted or renewed under paragraph 6 shall be valid for a period of five years from the date of grant or renewal.

8. General conditions to be observed by the holder of the licence.—The holder of the licence shall,—

(i) maintain a register with a separate page for each vehicle containing the particulars specified in Form 3 and where a motor cycle is hired by a foreign national, shall maintain a register in Form 4;

(ii) not shift the principal place of business mentioned in the licence without the prior approval in writing of the licensing authority which granted the licence;

(iii) keep the premises and all the records and registered maintained and the motor cycles open for inspection at all reasonable times by the licensing authority or by any person not below the rank of motor vehicle inspector as may be authorized in this behalf by the licencing authority;

(iv) submit from time to time, to the licensing authority such information and return as may be called for by it;

(v) display at prominent place in its main office and its branch office, the licence issued in original and certified copies thereof, attested by the licensing authority;

(vi) maintain in their main office and branch offices at a conspicuous place a "Complaint Book" in the Form 5 with serially numbered pages in triplicate. The licensee shall despatch the duplicate copy of complaint, if any, to the licensing authority by registered post expeditiously and in any case not later than 3 days;

(vii) maintain a suggestion box in the main office and branch offices and forward their suggestion received with their comments, if any, to the licensing authority once a month.

9. Collection of hire charges.—The holder of a licence shall collect the hire charges from a foreign national or non-resident Indian only in foreign exchange and shall hold for the purpose a licence to transact in foreign exchange.

10. Duties and responsibilities of the hirer of motor cycles.—(1) It shall be the duty of every hirer to keep the holder of the licence, informed of his movements from time to time.

(2) If an individual or company has hired the vehicle, as leader of the tourist party, it shall be the duty of such leader of the party to keep the holder of the licence informed of the movements of each vehicle, from time to time.

11. Power of licensing authority to suspend or cancel the licence.—(1) The licensing authority shall, on being satisfied after giving the holder of the licence, an opportunity of being heard, that he has—

(i) failed to comply with the provisions of paragraph 8 or 9; or

(ii) failed to maintain the motor cycle in compliance with the provisions of the Act and rules; or

(iii) any one of his employees has misbehaved with customers; or

(iv) any complaint against the licences by any hirer has been proved beyond reasonable doubt, suspend the licence for specified period or cancel the licence.

(2) Where the licence is liable to be cancelled or suspended and the licensing authority is of opinion that having regard to the circumstances of the case, it would not be necessary or expedient to cancel or suspend the licence; if the holder of the licence agrees to pay the fine that may be imposed by the licensing authority, then notwithstanding anything contained in clause (1), the licensing authority may, instead of cancelling or suspending the licence as the case may be, recover from the holder of the licence, the said fine.

(3) For the purpose of recovery of the sum of money agreed upon, the State Government may, by notification in the Official Gazette, specify the amount recoverable for each day of suspension of the licence and specify the time within which the sum of money agreed upon is payable, failing which the orders passed under clause (1) shall be implemented.

(4) When the licence is suspended or cancelled under clause (1), the holder of the licence shall surrender the licence to the licensing authority.

²[12. Appeals.]—Any person aggrieved by any order of the licensing authority under Paragraph 6 or Paragraph 11, may within thirty days of the receipt of the order, appeal to the State Transport Appellate Tribunal].

13. Procedure for appeal.—(1) An appeal under rule 12 shall be preferred in duplicate in the form of a memorandum setting forth the ground of objection, to the order of the licensing authority and shall be accompanied by a fee as may be specified by the State Government, by notification in the Official Gazette.

²[(2) The State Transport Appellate Tribunal may after giving an opportunity to the parties to be heard and after such enquiry as it may deem necessary, pass appropriate orders.]

(3) The State Transport Appellate Tribunal shall dispose of an appeal under Paragraph 12 within a period of ninety days from the date on which such appeal is filed;].

². Subs. by S.O. 257 (E), dated 26th March, 1998 (w.e.f. 26-3-1998).

14. Voluntary surrender of the licence.—The holder of a licence may at any time surrender the licence issued to him by the licensing authority which granted the licence and, on such surrender the licensing authority shall cancel the licence. The holder of the licence before surrendering the *licence shall clear the dues referred to in clause (2) of paragraph 11.*

FORM 1

[See paragraph 4]

Application for grant or renewal of licences for renting motor cycles

To

The Transport Authority

..... State/UT

I, the undersigned, hereby apply for a licence for renting motor cycles in the State of

.....

1. Full Name
Son/Wife/Daughter of.....
2. (a) Full Address
- (b) Telephone No. Age
3. Age
4. (a) Experience in management of transport business
(b) Number of motor cycles held with valid permits
5. Particulars of licence, if already held
6. (a) Place where the applicant has his main office with detailed address
(b) Place where the applicant has his branch office with detailed address
(c) The number of motor cycles to be stationed in each branch office
7. Nature and extent of financial resources of the applicant
8. Particulars of motor cycles owned alongwith details of registration mark.....
9. Full description of the place where the business is to be carried on
- (a) Location, open area, covered area.
(b) Any other particulars.
10. I am conversant with the conditions for carrying the business for renting of motor cycles.
11. I hereby declare that to the best of my knowledge and belief the particulars given above are correct and true.

The prescribed fee of rupees one thousand is paid*

Place :

Signature of Applicant

Dated :

*(Here indicate the mode of payment)

FORM 2

[See paragraph 6]

Licence of renting motor cycles

1. Name of the operator
2. Son/Wife/Daughter of
3. Full address of the place of business
4. Registration mark of motor cycles authorised for renting

Main Office

- 1.
- 4.
- 7.
- 10.

Branch Office

- 2.
- 5.
- 8.
- 11.
- 3.
- 6.
- 9.
- 12.

is licensed to rent motor cycle.

This licence is issued on and is valid upto

State Transport Authority
..... State/UT

Renewal

Renewed fromto

State Transport Authority
..... State/UT

FORM 3

[See paragraph 8(i)]

Register to be maintained by Rent a motor cycle Licensee

Si . No	Name of Hirer	Full Address	Telephone No. if any	Motor Driving Licence No
1	2	3	4	5

Issued by (Authority)	Class of vehicle	Date of issue	Date of Expiry	Date and Time of hire
6	7	8	9	10

Date and Time of returning vehicle	Motor vehicle used for total kilometers	Signature of Hirer	Remarks
11	12	13	14

FORM 4

[See paragraph 8(i)]

Register to be maintained by rent a motor cycle licensee in case where the motor cycle is hired to a foreigner

Sl. No.	Name of Hirer	Full Address	Telephone No. if any	Motor Driving Licence No.	Issued by (Authority)	Class of vehicle
1	2	3	4	5	6	7

Date of issue	Date of Expiry	Passport No.	Issued by Authority and State/Nation	Date of issue of Passport	Date of Expiry	Date of birth as per passport
8	9	10	11	12	13	14

Driving permit No. if any	Date of issue of Driving permit	Class of vehicle Authorised to drive	Date and Time of Hire	Date and time of returning vehicle	Motor vehicle used for total km	Signature of Hirer	Remarks
15	16	17	18	19	20	21	22

FORM 5
[See paragraph 8(vi)]
(With pages serially numbered in triplicate)

1. Name of complainant
 2. Full address
 3. The name and address of the holder of the licence for rent a motor cycle
 4. Licence number, and authority which issued the licence
 5. The date and time of hiring the vehicles and date and time when the vehicle was returned
 6. Vehicle number
- Complaint in brief

Date :

Place :

Signature

1. The licensing authority by registered post (duplicate Copy)
2. The complainant (triplicate Copy)

MOTOR VEHICLES (ALL INDIA PERMIT FOR TOURIST TRANSPORT OPERATORS) RULES, 1993¹

[No. G.S.R 541 (E) Dated 10.08.1993]
(as subsequently amended)

In exercise of the powers conferred by sub-section (14) read with sub-section (9) of section 88 of the Motor Vehicles Act, 1988 (59 of 1988), the Central Government hereby makes the following rules, namely:—

1. Short title, extent, commencement and exemption.—(1) These rules may be called the Motor vehicles (all india permit for tourist transport operators) rules, 1993.

- (2) They shall extend to the whole of India.
- (3) They shall come into force with effect from the date of publication.
- (4) The conditions prescribed in rules 82 to 85-A of the Central Motor Vehicles Rules, 1989 shall not apply to the permits granted under this scheme.

2. Definitions.—In these rules, unless the context otherwise requires,—

- (a) “**Act**” means the Motor Vehicles Act, 1988 (59 of 1988),
- (b) “**Authorisation Certificate**” means a certificate issued by an appropriate authority to a recognised Tourist Operator authorising him to operate throughout the territory of India or in such continuous States, not being less than three in number including the State in which the permit is issued, on recognised tourist circuits, as are specified in the All India Permit for a tourist vehicle granted to him;

- (c) “**Appropriate Authority**” means the authority which is authorised under the Act to grant a permit in respect of a tourist vehicle;

- (d) “**rule**” means the rule of the Central Motor Vehicles Rules, 1989;
- (e) “**section**” means section of the Act;
- (f) “**Schedule**” means a Schedule appended to these rules;

²[(g) “**Tourist Transport Operator**” means,—

- (a) a company or an individual engaged in a business of promotion of tourism by providing tourist transport vehicles on tourist circuits; or

¹. Vide GSR 541 (E), dated 10th October, 1993

². Subs by GSR 286(E), dated 22nd March, 1995.

(b) any travel agency (who possesses his own vehicle or have taken a vehicle on lease for this purpose for a period of at least one year) run by a company or an individual provides all tickets for travel by air, rail, ship, passport, visa and also arrange accommodation, tours, entertainment and other tourism related services; or

(c) the tour operator (company or individual) who provides for transport, accommodation, sight-seeing, entertainment and other tourist related services for tourist, and who possesses his own vehicle or has taken a vehicle on lease for this purpose for period of atleast one year and is recognised by the Department of Tourism of the Government of India;

³[(h) “**Tourist Circuit**” means all places of tourist interest situated in a State for which package tours are prepared and sold by the recognised tourist transport operator.

Explanation.—For the purpose of removal of doubts, it is clarified that the permit covering such tourist circuits shall be valid throughout the State.]

3. Authorisation Certificate shall be issued only to a Tourist Transport Operator recognised by the Department of Tourism of the Central Government.

4. Form, contents and duration, etc., of the Authorisation Certificate.—(1) Every application for the issue of an Authorisation Certificate shall be made to the concerned State Transport Authority, in the Form as set forth in the First Schedule.

(2) Every Authorisation Certificate shall be in the Form as set forth in the Second Schedule.

(3) The period of validity of an Authorisation Certificate shall not exceed one year at a time.

(4) The Authorisation Certificate may be renewed on an application made not less than fifteen days before the date of its expiry.

5. Procedure of applying for and issue of Authorisation Certificate.—(1) An applicationfor an Authorisation Certificate may be made on any working day to the State Transport Authority concerned.

(2) A State Transport Authority shall not ordinarily refuse to issue an Authorisation Certificate applied for under these rules.

³. Ins by GSR 286 (E), dated 22nd March,1995

(3) Transport Authority may reject the application made under sub-rule (1) for good and sufficient reasons to be recorded in writing, or where the Authority is of the opinion that this would have the effect of increasing the number of Authorisation Certificates limited in terms of section 74(3):

Provided that the Authorisation Certificate applied for shall be issued or refused within a period of thirty days from the date of receipt of application by the State Transport Authority.

6. Transfer of permit.—(1) Save as otherwise provided in sub-rule (2), an Authorisation Certificate shall not be transferable from one person to another except with the permission of the State Transport Authority which issued the Authorisation Certificate and shall not, without such permission, confer on any person to whom a vehicle covered by the Authorisation Certificate is transferred, any right to use that vehicle in the manner authorised by the Authorisation Certificate.

(2) Where the holder of an Authorisation Certificate dies, the person succeeding to the possession of the vehicle covered by the Authorisation Certificate may, for a period of three months, use the Authorisation Certificate from the date of death of the holder and on his own intention to use the Authorisation Certificate:

Provided further that no Authorisation Certificate shall be so used, except after its renewal, after the date on which it would have ceased to be effective in the hands of the deceased holder.

(3) The State Transport Authority may, on an application made to it within three months of the death of the holder of an Authorisation Certificate, transfer the said certificate to the person succeeding to the possession of the vehicle covered by the Authorisation Certificate:

Provided that the State Transport Authority may entertain an application made after the expiry of the said period of three months if it is satisfied that the applicant was prevented for good and sufficient cause from making an application within the specified time.

7. Replacement of vehicle.—The holder of an Authorisation Certificate may, with the permission of the State Transport Authority by which the Authorisation Certificate was issued, replace any vehicle covered by the Authorisation Certificate by any other vehicle of the same nature.

Explanation.—The vehicle of same nature would mean having the same seating capacity for which permit has been granted and composite fee paid and such a replacement vehicle could be of any other make or model.

8. Appeals.—(1) Any person aggrieved by—

(a) the refusal of the State Transport Authority to issue an Authorisation Certificate or by any condition attached to, an Authorisation Certificate issued to him; or

(b) the order of revocation or suspension of the Authorisation Certificate or by any variation of the conditions thereof; or

(c) the order of refusal to transfer the Authorisation Certificate under rule 6 of these rules or section 82; or

(d) the order of refusal to renew an Authorisation Certificate; or

(e) any other order which may be made, may within a period of thirty days from the date on which the said order is communicated to the applicant, appeal to the State Transport Appellate Tribunal constituted under sub-section (2) of section 89 of the Motor Vehicles Act, 1988, who shall after giving such person and the State Transport Authority an opportunity of being heard, give a decision thereon, which shall be final.

9. Authorisation fee.—The fee for the issue of an Authorisation Certificate shall be Rs. 500 per annum and every application for the issue or renewal of the same shall be accompanied by a bank draft for the said amount in favour of the appropriate authority.

10. Seating capacity.—An All India Permit for Tourist Transport Operators shall be issued only in respect of vehicles with a seating capacity of not more than 39 seats, excluding the driver and the conductor. Besides, provision of rule 128 of the Central Motor Vehicles Rules, 1989, except for sub-rule (11) of the said rules, shall also apply to the tourist vehicles.

11. Age of the tourist coaches.—An All India Permit for Tourist Transport Operators shall be deemed to be invalid from the date on which the vehicle covered by the said permit completes nine years, in the case of a motor cab and eight years in the case of a vehicle other than a motor cab.

Explanation.—For the purpose of this rule, the period of nine or eight years shall be computed from the date of initial registration of the tourist vehicle concerned.

⁴[**12.** Every motor vehicle or motor cab under the Authorisation Certificate issued under these rules shall exhibit the words "All India Tourist Permit" on the back of the motor vehicle in contrasting colours, so as to be clearly visible.]

13. List of tourists.—A tourist vehicle, other than a motor cab plying under an All India Permit for a Tourist Transport Operator shall at all times carry a list of tourist passengers in respect of each trip, and the list shall be produced on demand by the officers authorised to demand production of documents by or under the Act or the rule made thereunder.

14. Quarterly return to be filed by an All India Tourist Permit Holders.—An All India Tourist Permit Holder shall file a quarterly return, in respect of the motor vehicle covered by these rules, in the Form set forth in the Third Schedule to the appropriate authority of the State by which the All India Permit is granted and the said authority, in turn, shall forward copies thereof to the appropriate authorities of other States concerned.

15. Certificate of Recognition.—(1) The eligibility conditions for a Certificate of Recognition shall be as set forth in the Fourth Schedule.

(2) Every application for a Certificate of Recognition by the Department of Tourism, Government of India, shall be submitted in the Form prescribed in the Fifth Schedule to the Director General of Tourism, Department of Tourism, Government of India, New Delhi - 110001.

(3) The Certificate of Recognition shall be granted in the Form prescribed in the Sixth Schedule.

⁵[**16. Conformity to mass emission standards.**—The Tourist Transport Operator shall not engage or use any vehicle for the purpose of journey, the origin and destination of which falls within the National Capital Region, unless such vehicle conforms to the mass emission standards (Bharat Stage-III) specified in sub-rule (14) of rule 115 of the Central Motor Vehicles Rules, 1989.]

⁴. Subs by G.S.R. 444(E), dated 26th June,2007

⁵. Ins by G.S.R. 58 (E), dated 30.01.2009

THE FIRST SCHEDULE
[See rule 4 (1)]
Form of application for issue of an authorization Certificate

To
The State Transport Authority

.....
.....
I/We, the undersigned, hereby apply for the issue of an Authorisation Certificate valid throughout the

territory of India/in the State of.....

(Here, write the names of the States applicable)

1. Name of the applicant(s) in full
(starting with surname, if any) or Company
 2. Name of father or husband
(in the case of an individual)
 3. Complete address
 4. Registration mark of the motor vehicle
 5. Engine number of the motor vehicle
 6. Chassis number of the motor vehicle
 7. Original permit number of the motor vehicle.....
 8. Permit issuing authority of the motor vehicle.....
 9. Make of the motor vehicle
 10. Registered laden weight of the motor vehicle.....
 11. Unregistered laden weight of the motor vehicle
 12. Particulars of the Certificate of Recognition issued by Deptt. Of Tourism,
Government of India.....
- (Copy to be attached).
13. Year of manufacture of the motor Vehicle
 14. Period for which the Authorisation Certificate is applied for
.....From _____ to _____
 15. I/We enclose Bank Drafts as described hereunder towards payment of the
Authorisation Fee:—

Sl.No	Name of the State	Amount paid	Particulars of Bank Draft	Date of Payment
	(1)	(2)	(3)	(4)
1				
2				
3				

Sd/-

Signature or thumb impression of
applicant(s) OR of the authorised
signatory with official rubber stamp

Date_____

*Strike out whichever is not applicable.

THE SECOND SCHEDULE
[See rule 4(2)]
AUTHORISATION CERTIFICATE

This Authorisation Certificate is valid throughout the States of _____
(On the recognised tour circuits given below)

1. Name in full of the individual or Company
(Starting with surname, if any),
2. Complete address
3. Registration mark of the motor vehicle
4. Engine number of the motor vehicle
5. Chassis number of the motor vehicle
6. Permit number of the motor vehicle
7. Name of the permit issuing authority
8. Make of the motor vehicle
9. Registered laden weight of the motor vehicle
10. Unladen weight of the motor vehicle
11. Year of manufacture of the motor vehicle
12. Period of validity of the Authorisation Certificate From _____ to _____

(Seal of the Appropriate Authority) (Signature of the Appropriate Authority)
(on the Reverse)

(Certificate of payment of composite fee)

S. No.	Name of the State	Amount Paid	Particulars of Bank Draft & Date	Date of payment	Period of for which paid
(1)	(2)	(3)	(4)	(5)	(6)

Place _____
Date _____

Signature and seal of the
Appropriate Authority

THE THIRD SCHEDULE
[See rule 14]
QUARTERLY RETURN

1. Name and complete address of the permit Holder
2. Registration mark of the motor vehicle
3. Registration Number of All India Permit for Tourist Transport Operator as given by Department of Tourism, Government of India.

Summary of trips made during the quarter

Month	Total distance covered in the State of*	Total distance of operation	Remarks
(1)	(2)	(3)	(4)

Date _____ Signature of the
All India Permit holder

*Mention the names of the States applicable.

Note.—In the remarks column, state reasons for low or high running in any particular State or States and any other factors which caused low or high operations.

¹[FOURTH SCHEDULE

[See rule 15(1)]

A. ELIGIBILITY CONDITION FOR RECOGNITION AS APPROVED TOURIST TRANSPORT OPERATOR

1. All applications for recognition shall be addressed to the Director-General of Tourism, Transport Bhawan, No. 1, Parliament Street, New Delhi-110001.

2. (i) The applications for grant of recognition shall be in the prescribed form.

(ii) The applicant has been in the tourist transport hire business for a minimum period of 2 years at the time of application.

(iii) The Tourist Transport Operator has operated in the above 2 years period a minimum number of 3 tourist permits issued by the concerned State Transport Authority/Road Transport Authority for tourist vehicles. Out of these three tourist vehicles at least one must be a car.

(iv) The applicant has adequate knowledge of handling the tourist transport vehicles for transferring tourist from the Airport, Railway Stations, etc. and for sight-seeing of tourists both foreign and domestic.

(v) The drivers of the tourist vehicles have proper uniform and adequate knowledge of taking the tourist for sight-seeing,

(vi) The applicant has proper parking space for the vehicles.

(vii) The Tourist Transport Operator is registered with the appropriate authority for carrying on the business of operating tourist transport vehicles.

3. (a) The two years period of operating the Tourist Transport business may be relaxable to 1 year in the case of those applicants who have operated 5 tourist vehicles with the proper State Transport Authority/Road Transport Authority permits for 1 year. These 5 tourist vehicles should be in any combination of cars/Air-conditioned Coaches/Mini Coaches provided there are minimum of at least 2 cars in the fleet of tourist vehicles.

¹. *Schedules Fourth, Fifth and Sixth subs. by G.S.R. 286 (E), dated 22nd March, 1995 (w.e.f. 22-3-1995).*

(b) For Ex-Defence personnel the condition of being in the business of tourist transport vehicles for two years and having 3 vehicles is relaxable provided the candidate is sponsored by the Director General of Resettlement, Ministry of Defence, New Delhi. In the case of such personnel they can operate the tourist transport business with 1 tourist vehicle only. However, the Ex-Defence personnel who apply under this scheme must themselves operate the tourists transport business and should not be hiremen of other Financiers.

(c) The condition of being in operation for 2 years' period for tourist transport operator's approval may also be relaxable in the case of those applicants who have located their business at the cities mentioned below:—

- (i) Amritsar (Punjab)
- (ii) Bodhgaya (Bihar)
- (iii) Bhopal (Madhya Pradesh)
- (iv) Bhubaneshwar (Orissa)
- (v) Chandigarh
- (vi) Goa
- (vii) Hyderabad (Andhra Pradesh)
- (viii) Hardwar (Uttar Pradesh)
- (ix) Khajuraho (Madhya Pradesh)
- (x) Port Blair (The Andaman and Nicobar Island)
- (xi) Pathankot (Punjab)
- (xii) Srinagar (Jammu & Kashmir)
- (xiii) Tiruchirapalli (Tamil Nadu)
- (xiv) Udaipur (Rajasthan)
- (xv) Visakhapatnam (Andhra Pradesh)

4. The Tourist Transport Operation will be required to pay a non-refundable one time fee of Rs. 500 while applying for the recognition. The fee will be made payable to the Pay and Accounts Officer, Department of Tourism in the form of a Bank Draft.

5. The applicant should be income-tax assessee and should submit copy of acknowledgment Certificate as proof having filed income-tax return for current assessment year.

²[6. The decision of the Department of Tourism, Government of India, in the matter of recognition shall be final. The Government of India may in its

discretion refuse to recognise any Tour Operator or withdraw or withhold at any time recognition granted to any Tour Operator, but before applying such discretion, it shall be lawful for the Government of India to issue show cause notice to the aggrieved Tour Operator and to consider his reply on merit and to communicate him the decision taken on such consideration.]

7. Recognition once granted shall continue unless revoked and subject to their continuance in this business and their submitting the requisite return of Income-tax and other particulars.

8. Tourist Transport Operator granted recognition shall be entitled to such incentives and concessions as may be granted by Government from time to time and shall abide by the terms and conditions of recognition as prescribed from time to time.

B. ELIGIBILITY CONDITIONS FOR RECOGNITION AS APPROVED TRAVEL AGENCY

1. All applications for recognition shall be addressed to the Director General of Tourism, Transport Bhavan, No. 1, Parliament Street, New Delhi-110001.

2. The following conditions must be fulfilled by the Travel Agency for grant of recognition by Department of Tourism:—

(i) The application for grant of recognition shall be in the prescribed form.

(ii) The Travel Agency has a minimum paid-up capital of Rs. 2.00 lakh duly supported by the audited balance sheet/Chartered Accountant's certificate.

(iii) The Travel Agency should be approved by International Air Transport Association (IATA) or General Sales Agent (GSA) of an International Air Transport Association member Airlines.

(iv) The Travel Agency has an office under the charge of a full time member of their staff, who is adequately trained/experienced in matters regarding ticketing, itineraries, accommodation facilities, currency, customs relations and other travel and tourism related services.

² Subs. by G.S.R. 83(E), dated 23rd February, 1998 (w.e.f. 23-2-1998).

(v) The Travel Agency has been in operation for a period of one year before the date of application.

(vi) The Travel Agency is an income-tax assessee and has filed Income-tax Return for the current assessment year.

3. Recognition as Travel Agency once granted shall continue unless withdrawn and subject to their continued membership of International Air Transport Association or continuance as General Sales Agent of an International Air Transport Association member airlines, as the case may be, and their submitting the requisite annual return of Income-tax and other particulars.

4. The Travel Agency will be required to pay a non-refundable one time fee of Rs.1000/- while applying for the recognition. The fee will be payable to the Pay and Accounts Officer, Department of Tourism, in the form of a Bank Draft. Fee for recognition of each Branch Office will be Rs. 500/-.

5. Recognition will be granted to the Headquarters office of the Travel Agency. Branch Offices will be approved alongwith the contractors office or subsequently, provided the particulars of Branch Offices are submitted to Department of Tourism and accepted by it.

6. The decision of the Department of Tourism, Government of India, in the matter of recognition shall be final. The Government of India may, in their discretion refuse to recognize any time or withdraw/withhold at any time recognition already granted without assigning any reason.

7. Travel Agency granted recognition shall be entitled to such incentives and concessions as may be granted by the Government of India from time to time and shall abide by the terms and conditions of recognition as prescribed from time to time.

C. ELIGIBILITY CONDITIONS FOR RECOGNITION AS APPROVED TOUR OPERATOR

1. All applications for recognition shall be addressed to the Director-General of Tourism, Transport Bhawan, No. 1, Parliament Street, New Delhi-110001.

2. (i) The application for grant of recognition shall be in the prescribed form.

(ii) The Tour Operator should have a minimum paid-up capital of Rs. 1.00 lakh fully supported by the latest audited balance sheet/Chartered Accountant's Certificate.

(iii) The turn-over in terms of foreign exchange or Indian rupees by the firm from tour operation only should be a minimum of Rs. 5.00 lakh duly supported by Chartered Accountant's Certificate.

(iv) The Tour Operator has an office under the charge of a full time member of their staff, who is adequately trained/experienced in matters regarding transport, accommodation, currency, customs regulations and General information about travel and tourism related services.

(v) The Tour Operator should have been in operation for a minimum period of one year before the date of application.

(vi) The Tour Operator will have to be Income-tax assessee and should have filed Income-tax return for the current assessment year.

3. The recognition as approved Tour Operator once granted shall continue unless withdrawn subject to their continuance in this business and their submitting the requisite annual return of Income-tax particulars.

4. The Tour Operator will be required to pay a non-refundable one time fee of Rs. 1,000 while applying for the recognition. The fee will be made payable to the Pay and Accounts Officer, Department of Tourism in the form of a Bank Draft. The fee for recognition of each Branch Office will be Rs. 500.

5. Recognition will be granted to the Headquarters Office of Tour Operators. Branch Offices will be approved alongwith the Head-Quarters office or subsequently, provided the particulars of the Branch Offices submitted to Department of Tourism and accepted by it.

³[6. The decision of the Department of Tourism, Government of India, in the matter of recognition shall be final. The Government of India may, in its discretion, refuse to recognize any Tour Operator or withdraw or withhold at any time recognition granted to any Tour Operator, but before applying such discretion, it shall be lawful for the Government of India to issue show cause notice to the aggrieved Tour Operator and to consider his reply on merit and to communicate him the decision taken on such consideration.]

7. Tour Operator granted recognition shall be entitled to such incentives and concessions as may be granted by Government from time to time and shall abide by the terms and conditions of recognition as prescribed from time to time by the Department of Tourism, Government of India.

³. Subs. by G.S.R. 83(E), dated 23rd February, 1998 (w.e.f. 23-2-1998).

FIFTH SCHEDULE

[See rule 15(2)]

A. APPLICATION FORM FOR RECOGNITION AS APPROVED TOURIST TRANSPORT OPERATOR

1. Name of the firm with address, telephone, telex and fax number.
2. Nature of the firm and date of registration/commencement of business with documentary proof.
3. Whether the office is located in residential/commercial/industrial area.
4. Name, experience, qualifications of the proprietor/Managing Director.
5. Total number of staff including drivers.
6. Name of the Travel Agents/Tour Operators/Hotels/Airlines with whom most business is transacted.
7. Please attach a copy of the audited balance sheet and profit and loss statement duly certified by the Chartered Accountant for the year preceding the date of application alongwith copy of acknowledgement certificate, in respect of Income-tax Return for current assessment year.
8. Please indicate the loans and mortgages as on the date of application.
9. Number of vehicles viz., Air-conditioned coaches, non-Air conditioned Coaches, Mini Coaches, Cars and Boats operated as tourist vehicles with their make, model and registration.
10. Attested copies of valid permits issued by Road Transport Authority/State Transport Authority for tourist vehicles and Registered Certificate Books of Tourist vehicles should be furnished.
11. Number and date of Bank Demand Draft for Rs. 500/- in favour of Pay and Accounts Officer, Department of Tourism, New Delhi.

Signature.....

Designation.....

Rubber stamp of company.....

B. APPLICATION FORM FOR RECOGNITION AS APPROVED TRAVEL AGENCY

1. Name and address of Head Office and Branch Offices.
2. Nature of the firm and the year when the firm was registered or commenced business with documentary proof.
3. Name of Directors/Partners etc. The details of their interests, if any, in other business may also be indicated.
4. Give particulars of staff employed, their qualifications, experience, salary and length of service with the firm.
5. Name of Bankers (Please attach a reference from your bankers).

6. Name of Auditors. A balance-sheet and profit and loss statement pertaining to the travel business, as prescribed under Company Law, must be submitted by each applicant. These audited statements should be in respect of your establishment for the last completed financial year or for the calendar year immediately preceding the date of submission of your application. Also furnish details of your turnover in the following statement:—

Name and particulars of the Travel Agency concerned

- (a) Paid up capital
- (b) Loans
 - (i) Secured
 - (ii) Unsecured
- (c) Reserves
- (d) Current liabilities and provision
- (e) Fixed Assets (excluding Intangible assets)
- (f) Investment
- (g) Current Assets
- (h) Intangible assets.

Total.....

Notes.—(i) Reserves would include balance of Profit and Loss Account and would exclude Taxation reserve.

- (ii) Current liabilities and provisions would include taxation reserve.
- (iii) Current assets would include sundry debts, loans and advances, cash and bank balance.
- (iv) Intangible assets would include goodwill, preliminary expenses, tendency and business rights, deferred Revenue expenditure accumulated loss, etc.

7. Copy of acknowledgement certificate in respect of Income-tax return for the current assessment year should be enclosed.

8. Whether any other activities are undertaken by the firm besides travel related activities.

9. Please indicate the air/shipping/railway ticketing held by the firm.

10. Please indicate membership of International Travel Organisation, if any.

11. Letter of approval of International Air Transport Association and certificate of endorsement for current year should be enclosed. General Sales Agents of any International Air Transport Association Airlines should enclose documentary proof in this regard.

12. Please enclose a Demand Draft of Rs. 1000 for Head Office and Rs. 500 for each Branch Office as fee for recognition, and mention the Demand Draft number, date and amount in this column.

Signature of the Proprietor/Partner/Managing Director.....

Rubber Stamp.....

C. APPLICATION FORM FOR RECOGNITION AS APPROVED TOUR OPERATOR

1. Name and address of Head Office and Branch Office.
2. Nature of the firm and the year when the firm was registered or commenced business, with documentary proof.
3. Name of Directors/Partners, etc. The details of their interests, if any, in other business may also be indicated.
4. Give particulars of staff employed, their qualifications, experience, salary and length of service with the firm.
5. Name of Bankers (Please attach a reference from your bankers).
6. Name of Auditors. A balance-sheet and Profit and Loss statement pertaining to tour operation business, as prescribed under Company Law, must be submitted by each applicant. These audited statements should be in respect of your establishment for the last completed financial year or for the calendar year immediately preceding the date of submission of your application. Also furnish details of your turnover in the following statement:—

Name and particulars of the operator concerned:

- (a) Paid up capital
- (b) Loans
 - (i) Secured
 - (ii) Unsecured
- (c) Reserves
- (d) Current liabilities and provisions
- (e) Fixed assets (excluding intangible assets)
- (f) Investment
- (g) Current Assets
- (h) Intangible assets

Total:

Notes.—(i) Reserves would include balance of Profit and Loss Account and would exclude taxation reserve.

- (ii) Current liabilities and provisions would include taxation reserve.
- (iii) Current assets would include sundry debts, loans and advances, cash and bank balance.

(iv) Intangible assets would include goodwill, preliminary expenses, balance and business rights, deferred revenue expenditure, accumulated loss, etc.

7. Copy of acknowledgement certificate in respect of income-tax return for the current assessment year should be enclosed.

8. Whether any other activities are undertaken by the firm besides Tour Operation.
9. Member of International Travel Operations.
10. (a) Give details of volume of tourist traffic handled upto the date of application showing foreign and internal tourist traffic separately. Please submit a certificate from Chartered Accountant. This certificate should show the receipts from tour operation only during the financial year or the calendar year immediately preceding the date of submission of your application.
- (b) Clientale : Special tourist groups handled, if any, their size, frequency, etc.
- (c) Steps taken to promote domestic tourist traffic and details of groups handled if any.
- (d) Special programmes, if any, arranged for foreign tourists.
11. Number of Conferences handled, if any, and the total number of passengers for such Conferences with details of location, etc.
12. Number of incentive tours handled.
13. Please enclose a Demand Draft of Rs. 1,000 for Head Office and Rs. 500 for each Branch office as fee for recognition and mention the Demand Draft Number, date and amount in this column.

Signature of Proprietor/Partner/Managing Director

Rubber Stamp of the firm:

THE SIXTH SCHEDULE
[(See rule 15 (3)]
CERTIFICATE OF RECOGNITION

Number _____ Date _____

Certified that _____

(Name and address of the Applicant)

is recognised by the Department of Tourism, Government of India, New Delhi as an
approved _____ Place _____

Director General (Tourism).]

ANNEXURE I



OVERALL DIMENSIONS OF MOTOR VEHICLES (PRESCRIPTION OF CONDITIONS FOR EXEMPTION) RULES, 1991¹

[No. G.S.R 583 (E) Dated 12-09-1991]

(as subsequently amended)

In exercise of the powers conferred by section 110(3)(b) of the Motor Vehicles Act, 1988, the Central Government hereby makes the following rules, namely:—

1. Short title and commencement.—(1) These rules may be called the overall Dimensions of motor vehicles (prescription of conditions for exemption) rules, 1991.

(2) They shall come into force on the date of their publication in the Official Gazette.

2. Conditions for the grant of exemption from rule 93.—The State Government may exempt any motor vehicle or any class of description of motor vehicles from the provisions of rule 93 of the Central Motor Vehicles Rules, 1989, subject to the fulfilment of any or all of the conditions specified in these rules which that Government may deem fit to impose, namely:—

(1) Such motor vehicle or class of description of motor vehicles shall—

(a) observe such load restrictions as the State Government may by order specify in this behalf,

(b) obtain the previous permission of such authority as may be specified by the State Government in this behalf before putting such vehicles on the load;

(c) not, if they are loaded, travel over such bridges and cross-drainage structures on the road, which the State Government may having regard to the safety of the road structures specify;

(d) where prohibited under clause (c) to travel over the structure referred to in that clause, the owner or transporter shall at his cost make arrangements to cross the rivers in accordance with the directions given by the authority specified by the State Government in this behalf;

(e) give advance intimation to such authority or officer specified in this behalf by the State Government regarding the movement of such vehicle;

(f) equip with necessary warning signals such as red flags in the

¹. Vide GSR 583(E), dated 12 th September, 1991.

day time, red light and reflectors in the night so as to indicate the extreme positions of the vehicle clearly;

- (g) move without any hindrance to the normal flow of traffic;
- (h) not exceed the speed limit of 16 kms. per hour.

(2) Where any damage is caused to the roads or road structures directly or indirectly due to the movement of such vehicles, the operator of the vehicle or the transporter shall be liable to pay such amount to the State Government as may be assessed by the authorities in this behalf.

(3) The State Government shall not be liable for any damage that may be caused to such vehicles or their contents through their transits;

(4) Any grant of exemption under these rules shall be without prejudice to the right of the authorities specified in this behalf by the State Government to regulate or stop the movement of such vehicles having regard to the safety of roads, bridges, structures and other road users;

(5) The State Government may, in consultation with the operator of the vehicle or the owner conduct route survey to assess the fitness of the roads for movement of such vehicles, feasibility of negotiating the curves more particularly in built-up areas, sufficiency of road width, adequacy of vertical clearance and any deficiencies identified in the assessment shall be rectified by the operators or owners of the vehicles;

(6) Exemption granted under these rules shall be applicable only for operating such vehicles on roads lying in the jurisdiction of the Public Works Department of the respective State Government and operators of the vehicles or their owners thereof shall make their own arrangements to obtain the approval of the other Departments of local body authorities for plying on the roads lying within their jurisdiction.

²[3. Removal of doubts.]—For removal of doubts, it is hereby declared that any exemption

granted under these rules in any State shall be valid throughout India.

². Subs by GSR 634 (E), dated 23rd June, 1992.

RULES OF THE ROAD REGULATIONS, 1989

[G.S.R.634(E) Dated 23-06-2017]

(as subsequently amended)

In exercise of the powers conferred by section 118 of the Motor Vehicles Act, 1988 (59 of 1988), and in supersession of the Rules of the Road Regulations, 1989, except as respects things done or omitted to be done before such supersession, the Central Government hereby makes the following regulations for the driving of motor vehicles, namely:-

1. Short title, extent and commencement. – (1) These regulations may be called the Motor Vehicles (Driving) Regulations, 2017.

(2) They shall come into force on the date of its publication in the Official Gazette.

2. Definitions.- (1) In these regulations, unless the context otherwise requires,-

- (a) "**Act**" means the Motor Vehicles Act, 1988 (59 of 1988);
- (b) "**carriageway**" means the part or parts of a road normally used by vehicular traffic, whether separated from one another by a dividing strip or a difference of level or not;
- (c) "**construction zone**" means a section of the roadway where the construction activity is in progress or declared to be undertaken and which may comprise of work space, traffic space or buffer space;
- (d) "**heavy vehicle**" means a heavy goods vehicle or heavy passenger motor vehicle as defined in clauses (16) and (17), respectively, of section 2 of the Act;
- (e) "**intersection**" means any level crossroad, junction or fork, including the open areas formed by such crossroads, junctions or forks;
- (f) "**longitudinal marking**" means the road marking which is provided along the movement of traffic on carriageway;
- (g) "**major district roads**" means the important roads within a district of a State notified as such by the State Government;
- (h) "**major road**" means the highway, road or street designated as such by any highway authority or local authority within its jurisdiction;

- (i) "**national highways**" means the highways specified in the Schedule to the National Highways Act, 1956 or any other highway declared as national highway under sub-section (2) of section 2 of the said Act;
- (j) "**parking**" means the bringing of a vehicle to a stationary position and causing it to wait for any purpose other than that of immediately taking up or setting down persons, goods or luggage, and includes stopping for more than three minutes;
- (k) "**rider**" or "**passenger**" means a person travelling on a motor vehicle otherwise than as a driver of that vehicle, whether for hire or reward or otherwise;
- (l) "**right of way**" means the right of a vehicle or any other road user to proceed in a lawful manner in preference to another vehicle or any other road user approaching under such circumstances of direction, speed and proximity as to give rise to danger or collision unless one grants precedence to one over the other;
- (m) "**road**" includes bridges, tunnels, lay-bys, ferry facilities, interchanges, roundabouts, traffic islands, road dividers, all traffic lanes, acceleration lanes, deceleration lanes, median strips, overpasses, underpasses, approaches, entrance and exit ramps, toll plazas, and a road under construction, but does not include any private road;
- (n) "**road marking**" means the lines, patterns, words except road signs which are applied or attached to the carriageway or kerbs or to objects within or adjacent to the carriageway for controlling, warning, guiding and informing the road users;
- (o) "**road user**" includes a person driving or travelling on the road in a vehicle or otherwise and a pedestrian;
- (p) "**silence zone**" means an area or locality notified by the competent authority where the use of sound signal is prohibited;
- (q) "**state highways**" means the arterial roads of a State notified as such by the State Government;
- (r) "**stopping**" means halting a vehicle for a very short duration out of free will, either to allow passengers to board or alight or for quick loading or unloading of goods;

- (s) "**traffic**" includes vehicles of every description and other carriages and conveyances, pedestrians, processions, ridden or herded animals, and all other forms of road traffic using any road or highway for the purpose of travel;
- (t) "**traffic island**" means a physical provision and road markings marked on a carriageway, at or near an intersection to regulate the vehicular traffic;
- (u) "**traversed marking**" means the road marking which is provided across the carriageway. (1) Any words or expressions used in these regulations, but not defined, shall have the same meaning as assigned to them in the Act.

3. Duty towards other road users and the general public.- No vehicle shall be driven, stopped or parked on a road or in a public place in such a manner as is likely to endanger the safety of, or cause inconvenience to, other road users.

4. Use of roads by vehicles. – (1) Every vehicle or combination of vehicles, while moving on a road, shall have a driver.

(2) A motor vehicle shall be driven on the carriageway:

Provided that on dual carriageways, the vehicle shall be driven on the left carriageway unless otherwise directed by the police officer in uniform for the time being on the duty or by appropriate road signs.

(3) Unless road signs or markings indicate otherwise, the driver shall keep the vehicle as far as possible to the left of the carriageway, and shall allow all traffic, which is proceeding in the opposite direction, to pass on his right side.

(4) The driver shall keep the vehicle to the left while being overtaken and when approaching a bend or a hill and when his view ahead is restricted.

(5) A heavy vehicle or speed restricted vehicle shall be driven in the left lane on a carriageway with several lanes in one direction, except when overtaking an obstruction or a slower moving vehicle:

Provided that the driver shall return to the left lane as soon as he is safely past the obstruction or the slower moving vehicle, as the case may be.

(6) A vehicle shall not be driven on a road declared "One Way", except in the direction specified by the signage.

(7) No driver shall pull, push or drive a vehicle against the flow of traffic, except when specifically directed to do so either through a traffic sign erected by an appropriate authority or by a police officer in uniform for the time being on duty.

(8) The driver shall keep at a safe distance from a reversing vehicle and not move toward it before the reversing

vehicle has completed its backward motion.

5. Duties of drivers and riders.- (1) Every driver shall at all times drive the vehicle with due care and caution.

(2) The driver shall ensure that at the time of driving a vehicle, he is in full control of his physical and mental abilities and physically and mentally fully fit to drive a vehicle.

(3) The driver shall at all times maintain a good lookout and concentrate on the road and the traffic and avoid any activity which distracts, or is likely to distract, his attention.

(4) The driver and the riders shall take special care and precautions to ensure the safety of the most vulnerable road users such as pedestrians, cyclists, children, the elderly and the differently abled persons.

(5) The driver shall ensure that his vehicle, while moving or when stationary, does not cause any hindrance or undue inconvenience to other road users or to the occupants of any properties.

(6) The driver shall ensure that his view is not obstructed and his hearing is not impaired by passengers, animals, the load, equipment in the vehicle or by the condition of the vehicle.

(7) The driver shall ensure that he and the other occupants of the vehicle wears seat belts, if provided in the vehicle .

(8) The driver shall ensure that a child up to twelve years of age is seated in an appropriate child restraint system, wherever provided.

(9) Wherever provided by or under the law, the rider of a motor cycle, with or without a side car, and the pillionrider and occupant of the side car shall wear protective head gear (helmet) or such other safety device as specified under any law for the time being in force.

(10) The driver shall ensure that loud music is not played in the vehicle.

(11) The driver shall not watch digital motion pictures or videos while driving, except where required for route navigation:

Provided that the driver shall use a device for route navigation in such a manner as not to distract his attention from driving.

(12) The driver shall strictly comply with the laws for the time being in force relating to prohibition on consumption of alcohol and drugs and smoking, and also ensure compliance thereto by the other crew, riders and passengers, if any.

(13) The driver shall take care of himself and the passengers of the vehicle, when getting into or out of a vehicle so as to ensure his own safety and the safety of the other staff, the passengers and other road users.

(14) The driver shall not, in any public place, drive a vehicle which, to his knowledge, has a defect, or which he could have discovered by exercising ordinary care, and on account of which defect the driving of the vehicle is likely to cause undue danger to the safety of the occupants of the vehicles or other road users.

(15) If a technical defect is discovered in a vehicle while it is being driven, the driver shall take the vehicle off the road in the quickest possible manner: Provided that powered two wheelers may be pushed to safety in a situation of discovery of a technical defect during driving.

(16) While riding or driving a motor cycle or a three wheeler, the driver or the rider shall not hold on to or push any other vehicle.

(17) The driver of a motor cycle or a three wheeler shall at all times hold the handle bar with both hands except when signalling the manoeuvre as specified in regulation 9.

(18) The driver may take his feet off the pedals or foot rests only if the road conditions so require or safely permit.

6. Lane traffic.- (1) Where any road is marked by lanes for movement of traffic, the driver shall drive within the lane, and change lanes only after giving a proper signal or road marking or signage.

(2) Where any lane is marked specially for a class of vehicles, a vehicle of that class shall drive in that lane only.

(3) Where a lane has been marked for a specified class of vehicles or for a special purpose, no other vehicle of any other class shall be driven in that lane.

(4) Where a road is divided by a longitudinal yellow or white solid line, the driver, proceeding in the same direction and trying to overtake another vehicle ahead, shall not cross the said yellow or white solid line.

(5) While approaching inter-sections, where turning lanes are marked with a single solid line, the driver shall ensure that the vehicle remains in the lane meant for the direction of manoeuvre.

(6) The driver shall not drive on or over a single or double longitudinal solid line, or on a painted traffic island except in case of obstructions on the road.

(7) On a road having a single broken line along with a solid line, the driver of the vehicle driving on the left of broken line may cross the broken line in order to overtake, but shall return to his lane after completing the manoeuvre, observing the safety precautions specified in regulation 12.

7. Right of way.- (1) Where a "STOP" sign is displayed on a road, the driver facing the sign shall-

(a) stop before crossing the transverse "STOP" line preceding the "STOP" sign;

(b) in case a "STOP" line is not marked, or is marked but is not visible, stop immediately before "STOP" sign;

(c) give way to traffic on the major road; and

(d) enter the major road only when the way ahead is clear.

(2) Where a "Give Way" sign is displayed on the road, supplemented by a single or double broken transverse "Give Way" road marking, the driver shall slowdown, give way to traffic on the road he is approaching, and proceed cautiously.

(3) If there is no pedestrian crossing marked before the "Give Way" sign or "STOP" sign, the driver shall give way to the pedestrians.

(4) the vehicle emerging onto a road from a property bordering thereon shall give way to the motor vehicles and other traffic already running on that road.

8. Left, right and 'U'turns.- The driver shall plan well in advance of a turn, move to the appropriate lane of the road and give signal for the intended turn in the following manner, namely:-

(1) **Taking a left turn,-**

(a) a driver who wishes to turn left shall clearly and in good time indicate his intention to turn left either by using direction indicator or giving appropriate hand signal;

(b) before turning left, the driver shall, in reasonable time, move to the left most lane or use a slip lane, where provided;

(c) while driving on a multi-lane road, where direction arrows pointing to the left are marked on the road, the driver shall use that lane while taking a left turn;

(d) before moving into the left lane, the driver shall keep in view the traffic to his left and behind him, and change the lane only after giving a left-turn signal;

- (e) before turning left, the driver shall give way to cyclists and other slow-moving traffic;
- (f) at uncontrolled pedestrian crossings, the driver shall give way to the pedestrians before turning left;
- (g) a vehicle, which is unable to negotiate a left turn due to large turning radius required for the vehicle from the extreme left lane, may use the next lane with the driver keeping a watch on the traffic on the left of the vehicle in the rear view mirror and exercising extreme caution while negotiating the turn.

(2) Taking a right turn,-

- (a) the driver who wishes to turn right shall clearly and in good time indicate his intention to turn right by using either the direction indicator or by giving a hand signal;
- (b) before turning right, the driver shall in good time move to the right most lane;
- (c) while driving on a multi-lane road, where direction arrows pointing to the right are marked on the road, the driver shall remain in that lane while taking right turn;
- (d) before moving into the right lane, the driver shall keep in mind the traffic on his right and behind him, and change the lane only after giving a right-turn signal;
- (e) at uncontrolled pedestrian crossings, the driver shall give way to pedestrians.

(3) Taking a 'U' turn.-

- (a) a vehicle shall not make a 'U' turn -
 - (i) where such 'U' turn is prohibited by a road sign or a traffic signal;
 - (ii) on a busy road with continuous flow of traffic;
 - (iii) on a major road, highway or expressway; and
 - (iv) across a continuous single or a double solid line;
- (b) the driver shall not take a 'U' turn if there are any blind spots around the vehicle and shall start taking a 'U' turn only if it is safe to take a 'U' turn, after closely observing the traffic in the opposite direction and observing the traffic on the sides and behind the vehicle in the side view mirrors and rear view mirror;
- (c) the driver shall negotiate the right turn only after giving way to the other road users who have the right of way, including pedestrians and cyclists;

(d) the driver shall ensure that he has a clear view of approaching traffic and shall not cause undue inconvenience to the other road users and also ensure safety of other road users;

(e) a large vehicle may take the 'U' turn from the left lane only where permitted.

9. Precautions to be taken at intersections.- (1) The vehicle shall invariably slow down when approaching a road intersection, a road junction, a pedestrian crossing or a road corner, and shall not enter any such intersection, junction or crossing if it is likely to endanger the safety of other road users moving onto, or already on, such intersection, road junction, pedestrian crossing or road corner.

(2) At intersections and junctions, vehicles approaching from the right side shall have the right of way:

Provided that this sub-regulation shall not apply,-

(a) when the junction or intersection is being regulated by manual signals by an unauthorised person, traffic lights or mandatory traffic signs; or

(b) when the vehicle is exiting a minor road and entering a major road.

(3) A motor vehicle shall not enter an intersection if the traffic on the intersection has come to a standstill even if it is on the main road or has a signal to proceed.

10. Precautions to be taken at roundabouts.- (1) While entering a roundabout, traffic already in the roundabout shall have the right of way.

(2) A motor vehicle approaching a roundabout shall choose the lane relevant to the direction of its further movement.

(3) The driver shall use indicators when changing lanes within the roundabout.

(4) While exiting the roundabout, the driver shall follow the procedure specified in sub-regulation (2) of regulation

(6) for taking a left turn.

11. Indication of signals.- (1) The driver shall clearly indicate his intention to change course, turn left or right and before making any manoeuvre, using mechanical or electrical devices fitted in the vehicle or by hand signals.

(2) In case a mechanical or electrical device is not fitted in the vehicle for giving signals or, the said device is provided but not functioning, the driver shall give manual signals as specified below-

(i) to stop, a driver shall raise his right forearm vertically outside of, and to the right of, the vehicle, palm to the right;

(ii) to turn to the right or to drive to the right-hand side of the road in order to pass another vehicle or for any other reason, the driver shall extend his right arm in a horizontal position outside of, and to the right of, his vehicle with the palm of the hand turned to the front;

(iii) to turn to the left or to drive to the left-hand side of the road, the driver shall extend his right arm and rotate it in an anti-clockwise direction;

(iv) to indicate to the driver of a vehicle behind him that the latter may overtake, the driver shall extend his right arm and hand horizontally outside of, and to the right of, the vehicle and shall swing the arm backward and forward in a semi-circular motion.

12. Traffic control signals.- While approaching a traffic control signal, the vehicle shall slow down and follow the directions given by the traffic control signals in the following manner, namely:-

(1) Red traffic light, -

(a) a motor vehicle facing the red light of a traffic control signal at an intersection or at a place other than an intersection, shall stop the vehicle before the stop line preceding the pedestrian crossing;

(b) if the stop line is not marked or, if marked is not visible, the vehicle shall stop before the pedestrian crossing;

(c) if there is no marked pedestrian crossing, the vehicle shall stop before the primary traffic signal;

(d) the vehicle shall move with caution after the green traffic signal turns on;

(e) when, at an intersection or at a place other than an intersection, rapid intermittent flashes of red light are displayed by a traffic control signal, the vehicle facing the signal shall,-

(i) stop before the stop line preceding the pedestrian crossing;

(ii) stop before the pedestrian crossing if the stop line is not marked or, if marked is not visible;

(iii) stop before the primary traffic signal at the intersection if there is no marked pedestrian crossing;

(iv) drive past the signal or across the pedestrian crossing after giving the right of way to the pedestrians and the vehicles running at the major road;

(f) notwithstanding anything contained in clauses (a) to (d), a motor vehicle may take a left turn and proceed further after giving way to the traffic approaching the intersection from its right side and to the pedestrians and cyclists crossing the intersection on its left side unless a traffic control device or a road sign prohibits a left turn when the red light is on.

(2) Green traffic light, -

(a) when, at an intersection or at a place other than an intersection, a green light is on at a traffic control signal, a motor vehicle facing the green light shall,-

(i) drive the vehicle into the intersection or pedestrian crossing only if the way ahead is clear;

(ii) move only in the direction indicated by the green directional arrow in case a green directional arrow signal is also displayed by a traffic control signal;

(iii) give way to any pedestrian, who is within the intersection or at an adjacent pedestrian crossing, and to any other vehicle which is within the intersection at the time when the green light turns on;

(b) when, at an intersection, rapid intermittent flashes of green arrow signal are displayed by a traffic control signal, a motor vehicle facing the flashes of the green arrow signal shall turn only in the direction of the arrow after giving the right of way to pedestrians, cyclists and the vehicles merging in the path which the driver is approaching.

(3) Amber traffic light, -

(a) when, at an intersection or at a place other than an intersection, an amber light is on at a traffic control signal, the vehicle facing the amber light shall stop before the stop line preceding the pedestrian crossing;

(b) if a stop line is not marked or, if marked is not visible, the vehicle shall stop before the pedestrian crossing:

Provided that if there is no marked pedestrian crossing, the vehicle shall stop before the primary traffic light signal unless it has either crossed the stop line or is so close to the stop line that abrupt stopping may result in a collision with the following vehicle;

(c) a motor vehicle facing rapid intermittent flashes of amber light from a traffic control signal at an intersection or at a place other than an intersection shall slow down and may drive into the intersection or pedestrian crossing with caution after giving way to the pedestrians and vehicles which are already within the intersection.

13. Manual traffic control. – (1) Where a police officer in uniform or any other authorised person is regulating the traffic at an intersection or at a place other than an intersection, the driver shall slowdown the vehicle and follow the directions of the said officer or person.

(2) When a “STOP” signal is shown by the police officer in uniform or any other authorised person, the driver shall stop the vehicle before the stop line preceding the pedestrian crossing.

(3) In case the stop line is not marked or, if marked is not visible, the driver shall stop the vehicle before the pedestrian crossing.

(4) In case there is no marked pedestrian crossing, the driver shall stop the vehicle before the approaching road at the junction.

(5) When a vehicle has stopped in compliance to a “STOP” signal given by the police officer in uniform or any other authorized person, it shall not move further until a signal to proceed is given by the said officer or person.

14. Overtaking.– (1) A motor vehicle shall not overtake any other road user unless it is safe and not in violation of the provisions of the Act or the rules made thereunder or any other law for the time being in force.

(2) A vehicle shall be overtaken only from the right side:

Provided that a vehicle may be overtaken from the left, if-

(a) the vehicle which is to overtake and the vehicle which is to be overtaken are both driving on a multi-lane road and the vehicle ahead can be safely overtaken in a marked lane to the left of the vehicle being overtaken;

(b) the vehicle to be overtaken is either turning right or making a ‘U’ turn from the centre of the road and is giving a signal to turn and it would be safe to overtake it from the left; or

(c) the vehicle to be overtaken is stationary and it is safe to pass it from the left.

(3) No vehicle shall be overtaken if such overtaking is likely to impede the oncoming traffic.

(4) While overtaking, the vehicle shall be driven at a speed higher than that of the vehicle to be overtaken, but the speed shall not exceed maximum speed limit specified by or under the Act or the rules made thereunder.

(5) No vehicle shall overtake-

(a) if the traffic situation is not clear;

(b) if prohibited by any mandatory traffic signs;

- (c) by crossing the continuous single or double solid longitudinal lane marking dividing the road;
- (d) on a bend or corner or at any obstruction of any kind resulting in the road ahead not being clearly visible;
- (e) at junctions, intersections and pedestrian crossings;
- (f) at a transit location where the road narrows or where lanes on the carriage way are reduced in width;
- (g) on a narrow culvert; or
- (h) on a road where 'School Zone' or 'Hospital Zone' or 'Construction Zone' is indicated by road signs.

(6) The driver shall use the direction indicators to show his intention to overtake and, after manoeuvring the overtaking, return to the left side of the road as quickly as possible.

(7) No driver shall give a right turn indicator to signal permission to the following vehicle to overtake him.

(8) Outside built up areas, the driver shall signal his intention to overtake the vehicle ahead of him by blowing the horn for a very short duration or by headlight flasher signal and may overtake the vehicle after getting a signal for overtaking from the driver in front or if the way ahead is clear.

(9) If a vehicle is overtaking another vehicle, the driver of the vehicle being overtaken shall not increase its speed or impede the overtaking vehicle's safe return to the left lane.

15. Merging in traffic.- (1) A motor vehicle entering a national highway or a state highway or a major district road shall give way to traffic on the highway or the major district road, as the case may be.

(2) At an intersection of two roads of same category, the driver of the motor vehicle on the right shall have the right of way.

(3) Wherever applicable, the driver shall use the acceleration for merging lane to build up speed of the vehicle before merging it in the traffic on the highway or on the major district road.

(4) Before and while merging in the traffic, the driver shall keep a close watch on the traffic through rear view mirror and side-view mirrors and signal his intention to merge.

(5) The driver shall not attempt to overtake a vehicle or vehicles ahead of him unless he has stayed long enough in the left-hand lane or the lane in which he had been driving.

16. Speed.- (1) A driver shall drive only at a speed which allows him control of the vehicle at all times, taking into account the driving conditions, including to the condition of the vehicle and its load, the road, other traffic, visibility and weather.

(2) The vehicle shall, during fog, rainfall, snowfall, storm or desert winds, be driven at a lower speed to enable the driver to stop the vehicle within the range of forward vision.

(3) A motor vehicle shall not be driven¹

i. at a speed exceeding or less than the maximum or minimum speed limit specified on the signages; and

ii. at a speed exceeding the maximum speed limit notified by the competent authority or authorities for that class of vehicles and for the class of roads on which it is for the time being driven.

(4) No driver shall, without good and sufficient reason, drive so slowly as to impede the normal traffic flow.

(5) No driver shall drive at a speed exceeding twenty-five kilometre per hour or such lower speed as may be specified on the road signage while passing by a construction site or a school or a hospital, wherever indicated by signage, or on roads without footpaths and soft shoulders where pedestrians use a part of the carriageway to walk.

17. Keeping safe distance.- (1) A driver driving behind another vehicle shall keep sufficient distance, commensurate with the traffic conditions, from the vehicle ahead, so as to be able to stop (pull up) safely if the vehicle ahead suddenly slows down or stops.

(2) When being followed by another vehicle, not suddenly brake without a compelling reason.

(3) The driver shall during rainfall, snow or storm or ice on the road due to severe weather conditions and during other adverse weather conditions, further increase the distance from the vehicle ahead.

18. Restrictions on driving backwards (in reverse direction).- (1) No driver of a motor vehicle shall drive the vehicle backwards (in the reverse direction) on a road or in a parking or any other public place:

Provided that the driver shall while driving backwards ensure that the backward movement of the vehicle does not in any manner endanger the safety of, or cause undue inconvenience to, the other road users and that such reverse movement is for a distance and duration that may be reasonably necessary to turn around the vehicle.

(2) No motor vehicle shall be driven on to a public road in the reverse direction.

(3) No motor vehicle shall be driven backwards into a road designated as "ONE WAY".

19. Level crossings.- (1) Rail-borne vehicles shall have over-riding priority at all unmanned level crossings.

(2) A driver shall slow down when approaching a railway crossing and shall

- i. not park the vehicle within the barriers of a railway crossing;
- ii. not overtake within the barriers of a railway crossing; and
- iii. keep to the left of the roadway.

(3) At a guarded railway crossing, no motor vehicle shall enter the crossing after the gates or barriers have been closed or have started to close or when the vehicular traffic is facing red light signal.

(4) At an unguarded railway crossing,-

(a) a motor vehicle shall enter the crossing only after ensuring that no rolling stock is in sight; and,

(b) the driver of a bus, including a school bus, a goods vehicle, a tractor trolley carrying farm labour or goods and a vehicle carrying hazardous, flammable or dangerous materials, shall stop at the approach of the railway crossing and the driver of the vehicle shall cause the attendant or any other person in the vehicle to walk up to the level crossing to ensure that no rolling stock is approaching from either side, and the attendant or such other person shall guide the driver across such level crossing:

Provided that where no such attendant or other person is available in the vehicle, the driver of the vehicle shall safely stop the vehicle on the roadside, a light from the vehicle and walk up to the crossing to see and ensure that no rolling stock is approaching from either side before starting to cross the level crossing.

20. Entering a tunnel.- (1) The driver shall switch on the dipped lights before entering a tunnel.

(2) No driver shall overtake, make a U-Turn or drive backwards inside a tunnel.

(3) No driver shall stop or park the vehicle within a tunnel unless absolutely unavoidable and, in such situation, switch on the hazard warning lights of the vehicle and also place reflective traffic warning triangles as specified in clause (c) of sub-rule (4) of rule 138 of the Central Motor Vehicles Rules, 1989, at a distance of twenty meters each from the vehicle in the front of, and behind, the vehicle.

21. Vehicles going uphill to be given precedence.- (1) On mountain roads and steep roads, where the road is not sufficiently wide to allow the motor vehicles to cross each other freely, the driver travelling downhill shall²⁴

- i. stop the vehicle on the left side of the road; and
- ii. allow the vehicle proceeding uphill to pass first.

22. Stopping and parking.- (1) A vehicle shall not be stopped

- i. at a place where the road is narrow or the view is obstructed;
- ii. near or on a sharp bend;
- iii. in an acceleration or a deceleration lane;
- iv. on, or five meters before, a pedestrian crossing;
- v. on a level crossing;
- vi. five meters or less before a traffic light signal or "Give Way" sign or "STOP" sign or if a stationary vehicle is likely to obstruct these signs from the view of other road users;
- vii. at designated bus stands if the vehicle is other than a bus;
- viii. on a yellow box marked on road; and
- ix. where prohibited by a mandatory "No Stopping" sign.

(2) A vehicle shall not be parked-

- (a) at a place where stopping a vehicle is prohibited under sub-regulation (1);
- (b) on a main road or at a stretch of a road where the notified maximum speed limit is fifty kilometers per hour or more;
- (c) on a footpath, cycle track and pedestrian crossing;
- (d) before or after an intersection or a junction up to a distance of fifty meters from the edge of the intersection or junction;

- (e) where it would block access to designated parking spaces;
- (f) near a bus stop, at the entrance to an educational institution or a hospital or if it is likely to block a traffic sign or a fire hydrant;
- (g) in a tunnel;
- (h) in a bus lane;
- (i) in front of the entrance or exit of a property;
- (j) where there is a continuous yellow line installed or painted on the carriageway on the kerb side;
- (k) away from the edge of the footpath;
- (l) opposite another parked vehicle;
- (m) if it is likely obstruct any other vehicle or cause inconvenience to any person;
- (n) alongside another parked vehicle;
- (o) beyond the specified durationat a place where parking is permitted for a specified duration only;
- (p) in a place where parking is permitted for a specified category or categories of vehicles and the vehicle does not belong to the specified category;
- (q) by a driver who is not differently abled in a parking space reserved for vehicles driven by differently abled drivers;
- (r) in a manner other than that specified in the parking bays in a designated parking lot or in such a manner as to occupy excessive space; and
- (s) where parking is prohibited by a "No Parking" sign.

23. Use of horns and silence zones.- (1) Unnecessary use of horn is prohibited.

- (2) As far as may be, the horn shall be sounded only when the driver apprehends danger to himself or to any other road user.
- (3) The driver shall sound the horn when directed by the mandatory sign.
- (4) The driver shall not-

- (a) sound the horn continuously or repeatedly or for a duration longer than necessary or in a residential areas or in a silence zone indicated by a mandatory sign;
 - (b) make use of a cut-out by which exhaust gases are released other than through the silencer;

(c) fit or use an air horn or a multi-toned horn giving a harsh, shrill, loud or alarming noise except as provided in sub-rule (3) of rule 119 of the Central Motor Vehicles Rules,1989; and

(d) drive a vehicle which creates undue noise or causes an alarming sound when in motion.

24. Mandatory orders.- (1) A police officer in uniform or an authorised officer of the State Government, may stop a motor vehicle by giving a signal by means of technical device on the vehicle or a signalling disc or a red light for verifying the certificate of fitness of the vehicle or for collecting required information in respect of the vehicle or the driver or other occupants the vehicle, and the vehicle owner or driver shall comply with the instructions given by such officer.

(2) Every driver shall obey the directions given by mandatory signages, road markings and signalling devices operated by an authority competent to do so or by a police officer in uniform or by an authorised person for the time being on duty.

(3) Notwithstanding any other rule for the time being in force or any order, road sign, marking or traffic light signal, and without prejudice to the duty of the driver to exercise due care and caution, the driver shall obey the signals or instructions of a police officer on duty in uniform in regard to movement of the vehicle.

(4) The driver shall obey the verbal directions or signals of a police officer for the time being on duty with regard to movement of the vehicle, including the directions to stop or reverse the vehicle or to slow down or to turn back or to move in the specified direction or to keep in such line of traffic as may be specified by the said police officer.

25. Passing along formations.- (1) While passing along formations such as funeral and other procession or a body of troops or police contingent on the march, or pack or saddle of animals or cattle, the driver shall reduce the speed of the vehicle, and pass by the formation slowly and cautiously, leaving adequate space between the formation and the vehicle.

(2) If the formation as described in sub-regulation (1) is crossing, or is about to cross, the road in front of the vehicle, the driver shall stop the vehicle and allow the formation to cross the road and not drive through the formation.

26. Bar on traffic impairment.- Unless validly permitted by the competent authority under the Act or the rules made thereunder, no driver shall -

- i. offer goods or services of any kind on the road; or
- ii. display any advertisement on the vehicle.

27. Vehicles designated for emergency duties.- (1) The driver of a vehicle designated by the State Government for emergency services under sub-rule (4) of rule 108 of the Central Motor Vehicles Rules, 1989 including a vehicle used as ambulance or for fire-fighting or for salvage purposes or a police vehicle, shall operate the multi-toned horn (siren) and the multi-coloured light with flasher only when the vehicle is responding to an emergency call or an alarm.

(2) An emergency vehicle, while its multi-toned horn and the flasher is on, shall have the right of way over all the other vehicles.

(3) In a case of utmost emergency like saving a human life, warding off serious damage to health of a person, prevent commission of a crime or damage to essential services or fight a fire, the driver of the emergency vehicle with the multi-toned horn and the multi-coloured flasher operating may, with utmost care, responsibility and caution

- i. cross a red traffic light;
- ii. exceed the specified speed limit;
- iii. drive on a highway hard shoulder; and
- iv. drive in either direction on a "NO ENTRY" or a "One Way" street.

(4) The priority within the emergency vehicles as referred in sub-regulation (1) shall be as follows

- v. first, a fire service vehicle;
- vi. second, an ambulance;
- vii. third, a police service vehicle; and
- viii. fourth, any other vehicle designated by the State Government as an emergency management vehicle such as for maintenance of essential public services like water and power supply or public transport.

(5) When an emergency vehicle, with its multi-toned horn and light flasher on, is overtaking, approaching or entering the path of any other vehicle, the person driving or riding such other vehicle shall, unless otherwise directed by a police officer-

(a) yield the right of way to the emergency vehicle, by driving to the left as close as practicable to the kerb or edge of the roadway in the shortest possible time;

(b) stop, if required, and remain stationary in that position until the emergency vehicle has passed.

(6) The driver shall, unless otherwise directed by the crew of the emergency vehicle, maintain a distance of at least fifty meters from the emergency vehicle on which multi-toned horn or flasher lights or both are operating.

(7) A road maintenance or public utility maintenance vehicle may be parked on the roadway, if necessary, after switching on the hazard warning lights and placing a warning device with necessary information at least fifty meters behind the parked vehicle, and take all other precautions to ensure safety of other road users.

28. Vehicle breakdown.- In case a vehicle with more than two wheels has broken down at a place where it can be recognised in time as a stationary obstacle,-

i. the hazard warning lights of the vehicle shall be switched on immediately;

ii. on highways and major roads with fast speed, reflective traffic warning triangles shall be placed at a distance of fifty meters behind the broken-down vehicle; and

iii. if there is a bend on the road where the vehicle is parked, reflective traffic warning triangles shall be placed before the bend.

29. Action in case of vehicular accident.- (1) The driver shall maintain absolute cool in case of an accident and do nothing that may harm the other driver or vehicle involved in the accident or any other person.

(2) Minor accidents, -

i. the driver or drivers, as the case may be, involved in the accident shall alight from the vehicle and take pictures of the vehicles, the occupants of the vehicles, any pedestrian or any other person or vehicle, whether motor vehicle or otherwise, and the accident scene, if possible;

ii. the drivers shall pull the vehicles out of the road immediately so that the vehicles are clear of on coming traffic;

iii. the driver or drivers shall place reflective traffic warning triangles near or around the vehicles to alert other drivers, and turn on hazard warning lights;

iv. the driver or the riders shall immediately call the police or ambulance or nearest hospital if anyone has been hurt;

v. The driver shall not leave the scene of an accident, even if it was a minor accident, until everything has been resolved to everyone's satisfaction.

(3) Major accidents,-

(a) every person involved in the accident shall check himself and other occupants of the vehicle or vehicles involved in the accident to see if anyone has been injured;

(b) if someone has been hurt, medical assistance and police shall be called immediately;

(c) once the condition of the driver and the passengers or riders has stabilised, the persons involved in the accident shall try to take pictures of the persons and vehicles involved in the accident, including the registration plates of the vehicles and the accident scene;

(d) the driver or drivers involved in the accident shall move the vehicles vehicle off to the side of the road, if possible, at the earliest;

(e) if it is not possible to move the vehicle or vehicles, the driver or drivers involved in the accident shall remain in the area of the incident until the police arrives unless the same is not possible due to injuries sustained in the accident;

(f) the driver and the other occupants shall cooperate with the police authorities in the investigation of the accident;

(g) if involved in an accident with another vehicle, the drivers shall exchange the following information with that driver: name, address, phone number, insurance company, policy number, driving license number and registration number of the vehicle.

(4) Interacting with the other driver,-

(i) once the initial shock wears off and it is apparent that no one has been seriously hurt, tempers may flare and all persons involved in the accident shall refrain from losing temper or provoking any other person or persons;

(ii) the driver or any other occupant shall get the other driver's name, address, contact information and insurance details, and provide the same to him;

(iii) if an amicable settlement cannot be made, call the police immediately;

(iv) if police has been informed, all persons involved in the accident shall remain at the scene until the investigators arrive and permit them to leave.

30. Towing a vehicle.- (1) No two-wheeled motor vehicle shall be towed by another vehicle.

(2) The maximum speed while towing a vehicle shall not exceed twenty-five kilometres per hour.

(3) The distance between the towed vehicle and the towing vehicle shall not exceed five meters;

(4) The tow ropes or chains shall be prominently visible to other road users.

(5) A retro reflective "ON TOW" sign not less than ten centimetres in height and two centimetres in width with spacing of two centimetres between the letters on white background shall be displayed on the front of the towing vehicle and at the rear of the vehicle being towed and a driver shall not tow a vehicle at night, in darkness or in adverse weather conditions unless the hazard warning lights of both vehicles are switched on:

Provided that if the hazard warning lights of the vehicle being towed are not functional, it shall not be towed unless the hazard warning lights of the towing vehicle are switched on.

31. Vehicle lighting.- (1) The driver shall use the specified lighting devices at nightfall, at night and at dawn and at other times when visibility is poor:

Provided that the driver of a two-wheeled motor vehicle shall drive with dipped head lights switched on during the day time also.

(2) The lighting devices of a vehicle shall at all times be kept in good working condition and no lighting device shall be obscured by any object or dirt.

(3) No driver shall

i. drive the vehicle with parking lights only, unless so directed by a police officer in uniform or any other authorised person; and

ii. use high beam inappropriately or for long duration or on well-lit roads.

(4) High beam shall be dipped in good time on the approach of an oncoming vehicle or when driving close behind another vehicle.

(5) The driver shall switch on the fog light headlamps only when visibility is considerably affected due to fog, dust, storm, rain or snow and only with dipped head lamps.

32. Driving of tractors and goods vehicles.- (1)The driver of a tractor shall not carry, or allow any person to be carried, on the tractor.

(2) The number of persons in the driver's cabin of a goods carriage shall not be more than the number of persons specified in the certificate of registration of the vehicle.

(3) No person shall be carried in a goods carriage for hire or reward.

33. Lane splitting (lane within a lane).- In urban areas, on roads having a maximum speed limit of forty kilometres per hour, wherever specifically permitted by road signs, motor cyclists may filter between three and four wheeled vehicles when the speed difference between the motor cyclists and the other vehicles does not exceed fifteen kilometres per hour.

34. Restriction to carriage of dangerous substances.- No driver of a public service vehicle shall carry, or allow any other person to carry, any explosive or highly inflammable or otherwise dangerous substance except the fuel and lubricants required for the vehicle.

35. Projection of loads.- (1) The driver shall at all times ensure that loads, including load restraints and loading equipment, in the vehicle are stowed and restrained in such manner that these cannot slip, fall over, roll around, fall off the vehicle or produce avoidable noise, even in an emergency braking situation or if the vehicle swerves suddenly.

(2) No driver shall drive in any public place a motor vehicle which is loaded in a manner which is likely to cause danger to any person.

(3) The load or any part thereof, or any other object in the vehicle shall not extend laterally beyond the sides of the body or to the front or to the rear, or exceed in height or weight the limits specified in the certificate of registration of the vehicle.

36. Registration plates.- (1) No vehicle shall be driven or parked on a public road without displaying registration plates as prescribed by the Act and the rules made thereunder.

(2) The registration plates on the front and at the rear of the vehicle shall be clearly visible and legible and no object whatsoever or dirt shall obstruct clear view of the entire registration place.

(3) No letter, word, figure, picture or symbol other than the registration number shall be displayed or inscribed or written on the registration plates.

(4) No load or other goods shall be placed on a motor vehicle in such manner as to fully or partly hide the registration plate.

37. Use of mobile telephones and communication devices.- (1) The driver shall not use any hand held mobile phone or other communication device.

(2) No trainer or supervisor shall use a mobile phone or other communication device while training or supervising a learner driver.

38. Production of documents.- (1) The driver of a transport vehicle shall always carry with him the following documents in original, except for a document that might have been seized by an authorised person or authority, namely:-

- (a) driving license;
- (b) certificate of taxation;
- (c) certificate of registration;
- (d) certificate of insurance;
- (e) fitness certificate; and
- (f) pollution under control certificate.

(2) The driver of a vehicle transporting hazardous or dangerous goods shall carry documents specified in rules 132 and 133 of the Central Motor Vehicles Rules, 1989.

(3) The driver of a non-transport vehicle shall always carry with him-

- (a) the driving license and pollution under control certificate; and
- (b) certificate of registration and certificate of insurance or photocopies thereof.

(4) The driver shall, on demand by police officer in uniform or an officer of the Motor Vehicles Department or any other officer authorised by the State Government in this behalf, produce the documents for inspection:

Provided that a driver may, if any of the documents has been submitted to or has been seized by any officer or authority under the Act or the rules made thereunder or any other law for the time being in force, produce, in lieu of the document, a receipt or other acknowledgement issued by such officer or authority in respect thereof:

Provided further that where the original certificate of registration or the certificate of insurance specified in clause (b) of sub-regulation (3) is not available with the driver, the owner or driver shall produce

such documents before the competent authority, which had directed their production, within fifteen days, if required by that authority.

39. Pedestrian crossings, footpaths and cycle tracks.- (1) While approaching an uncontrolled pedestrian crossing, the driver shall slowdown, stop and give way to pedestrians, users of invalid carriages and wheelchairs.

(2) If traffic has come to a standstill, the driver shall not drive the vehicle on the pedestrian crossing if he is unlikely to be able to move further and thereby block the pedestrian crossing.

(3) When any road is provided with a footpath or cycle track, no vehicle shall drive on such footpath or track, except on the directions of a police officer in uniform or where traffic signs permitting such movement have been displayed.

40. Knowledge and understanding of road signs, markings, traffic control signals, the Act and the Rules.-

Every driver shall be conversant with and possess adequate knowledge and understanding of the following, namely:-

- (a) road signs, markings and traffic control signals;
- (b) Provisions of the following sections of the Motor Vehicles Act, 1988, namely:-
 - (i) section 19: Grounds for disqualification or revocation of driving license;
 - (ii) section 112: Limits of speed;
 - (iii) section 113: Limit of weight and limitations on use;
 - (iv) section 121: Signals and signalling devices;
 - (v) section 122: Leaving vehicles in dangerous positions;
 - (vi) section 125: Obstruction of a driver;
 - (vii) section 132: Duty of a driver to stop in certain cases;
 - (viii) section 133: Duty of owner of motor vehicle to give information;
 - (ix) section 134: Duty of a driver in case of an accident and injury to a person;
 - (x) section 185: Driving by a drunken person or under the influence of drugs;
 - (xi) section 186: Driving when mentally or physically unfit to drive;
 - (xii) section 187: Punishment for offences relating to accident;

(xiii) section 194: Driving vehicle exceeding permissible weight;
(xiv) section 200: Composition of certain offences; and
(xv) section 207: Power to detain vehicles without Certificate of Registration or Permit;

(c) provisions of the Central Motor Vehicles Rules, 1989-

(i) rule 21: Acts which constitute nuisance or danger to the public for disqualifying a person from holding a driving license;

(ii) rule 133: Responsibility of the driver;

(iii) rule 136: Driver to report to the police station about accident;

(d) provisions of the notification of the Government of India in the Ministry of Road Transport and Highways No. 25035/101/2014-RS, dated the 21st January, 2016 published in the Gazette of India, Extraordinary, Part-I, Section 1 relating to the protection of good samaritans.

SOLATIUM SCHEME, 1989¹

In exercise of the powers conferred by sub-section (1) of Section 163 of the Motor Vehicles Act, 1988 (59 of 1988), the Central Government hereby makes the following scheme for the payment of compensation to the victims of hit and run motor accident, namely:—

1. Short title and commencement.—(1) This scheme may be called the Solatium Scheme, 1989.

(2) It shall come into force on the first day of July, 1989.

2. Definitions.—In the scheme unless the context otherwise requires,—

- (a) "**Act**" means the Motor Vehicles Act, 1988 (59 of 1988).
- (b) "**Claims Enquiry Officer**" means the Sub-Divisional Officer, Tahsildar, or any other officer in charge of the revenue sub-division of a Taluka in each revenue district of a State or such other officer not below the rank of Sub-Divisional Officer or a Tehsildar, as may be specified by the State Government.
- (c) "**Claims Settlement Commissioner**" means the District Magistrate, the Deputy Commissioner, the Collector or any other officer-in-charge of a revenue district in a State appointed as such by a State Government.
- (d) "**Clause**" means clause of this scheme.
- (e) "**District-level Committee**" means a Committee set up under Clause 11.
- (f) "**Form**" means a Form annexed to the Scheme.
- (g) "**Standing Committee**" means a Committee set up under Clause 3.
- (h) "**Transport Commissioner**" means an officer appointed as such by the State Government and includes the Director General of Transport, Director of Transport or the Controller of Transport, appointed by the State Government.

3. Standing Committee.—(1) There shall be a Standing Committee consisting of the following members, namely:—

- (a) Joint Secretary (Transport)Chairman
- (b) Joint Secretary (Insurance)Member
- (c) General Manager, General Insurance CorporationMember
- (d) General Manager of each of Insurance Companies for the time being carrying on general insurance business in IndiaMember
- (e) Transport Commissioners, one each from three States, nominated by the Central Government by rotationMember

(f) Director/Deputy Secretary (Finance Division) Ministry of Surface Transport.Member

(g) An officer of General Insurance Corporation, of the rank of Deputy General Manager (Accounts)Member Secretary

(2) The person nominated as member by virtue of an office shall cease to be a member when he ceases to hold that office.

(3) The term of office of the members nominated under sub-clause (a) of clause (1) shall be for a period of one year.

4. Remuneration of members of Standing Committee.—A member shall not be paid any remuneration, except travelling and daily allowance at the rates admissible to him and be paid from the source he draws salary.

5. Powers and functions of the Standing Committee.—The Standing Committee shall:

(i) periodically review the working of the scheme and its implementation and direct corrective steps, wherever necessary;

(ii) considering the issues raised in the report of the District-level Committee and provide guidance or directions, wherever called for.

(iii) framing regulations for conduct of business by Standing Committee and Districtlevel Committee.

6. Meeting of the Standing Committee.—The Standing Committee shall meet at such time, date and at such a place as a Chairman may, from time to time, appoint in this behalf:

Provided that the Committee shall meet at least twice a year.

7. Quorum.—Not less than three members shall form a quorum:

Provided that if at any meeting there is no quorum, the Chairman may adjourn the meeting to a date not less than seven days later, informing the members present and sending notices to other members that he proposes to dispose of the business at the adjourned meeting, whether there is a quorum or not and he may thereupon dispose of the business at such adjourned meeting.

8. Decision by majority.—Every matter shall be determined by the majority of votes of the members present and voting and in case of equality of votes, the Chairman shall have a casting vote.

9. Notice of meeting.—(1) Notice shall be given by the member-Secretary to every member of the time, date and place fixed for each such meeting at least seven days before such meeting and each member shall be furnished with a list of business to be disposed of at the said meeting:

Provided that when an urgent meeting is called by the Chairman, such notice shall not be necessary. However, member-Secretary shall send an intimation to each member.

(2) No business which is not on the list of business shall be considered at a meeting without the permission of the Chairman.

10. Minutes of the meeting.—The proceedings of each meeting of the Standing Committee shall be circulated to all members and thereafter recorded in a minutes book which shall be kept as permanent record. The record of the proceedings of each meeting shall be signed by the Chairman.

11. District Level Committee.—(1) There shall be a District Level Committee in each District consisting of the following members, namely:—

(a) Claims Settlement CommissionerChairman

(b) Claims Enquiry Officer, nominated by the State GovernmentMember

(c) The Regional Transport Officer or any other officer of Motor Vehicles Department as nominated by the State GovernmentMember

(d) Any member of the public or, a voluntary organization connected with the road safety aspects nominated by the Chairman.

(e) Divisional Manager of the Insurance CompanyMember-Secretary

(2) A person nominated as a member by virtue of an office shall cease to be member when he ceases to hold that office.

²[(3) The term of office of the members nominated under items (b), (c) and (d) of subclause (1) shall be determined by the State Government.]

12. Remuneration of Member of the District Level Committee.—A member shall not be paid any remuneration except travelling and daily allowance at the rate admissible to him in his respective Department and be paid from the source he draws salary. A member nominated under clause (d) shall be paid travelling allowance/dearness allowance by General Insurance Corporation, at the rate as may be decided by the General Insurance Corporation.

13. Powers and functions of District Level Committee.—The District Level Committee shall undertake all functions connected with the implementation of the scheme at the District Level. It shall also perform functions such as:

- (i) to evaluate the progress of implementation of the scheme in the concerned District and take corrective steps, wherever necessary;
- (ii) to submit a report on quarterly basis to the Standing Committee. The report shall inter alia include statistics month-wise, about the claim applications received, awarded, pending and reasons for pendency;
- (iii) to keep close liaison with other authorities in the district so as to ensure that scheme gets adequate publicity;
- (iv) to provide guidance/clarifications to concerned authorities wherever called for.

14. Meeting of the District Level Committee.—The District Level Committee shall meet at such time, date and at such place, within the concerned District itself, as the Chairman may, from time to time, appoint in this behalf:

Provided that the Committee shall meet at least once in each quarter.

15. Quorum.—Not less than two members shall form a quorum.

16. Decision by majority.—Every matter shall be determined by a majority of vote of the members present and voting. In case of equality of votes, Chairman shall have a casting vote.

17. Notice of meeting.—(1) Notice shall be given by member-Secretary to each member of the time, date and place fixed for the meeting at least seven days before such a meeting and each member shall be furnished with a list of business to be disposed of at the said meeting:

Provided that when an urgent meeting is called by the Chairman, such notice shall not be necessary. However, member-Secretary shall send an intimation to each member.

(2) No business which is not on the list of business shall be considered at a meeting without the permission of the Chairman.

18. Minutes of the meeting.—The proceedings of each meeting of the District Level Committee shall be circulated to all members and thereafter recorded in a minute book which shall be kept as a permanent record. The record of the proceedings of each meeting shall be signed by Chairman.

19. Nomination of insurance company.—General Insurance Corporation shall nominate any of its office or an insurance company in each District for settlement of claims under section 161 of the Act and of this scheme.

20. Procedure for making the claim application.—(1) The applicant shall submit an application seeking compensation under this scheme in Form I alongwith duly filled in discharge receipt in Form II and the undertaking in Form V to the Claims Enquiry Officer of the Sub-Division or Taluka in which the accident takes place.

(2) An application under clause (1) shall be made within a period of six months from the date of the accident:

Provided that an application made after six months but not after 12 months from the date of the accident may be accepted by the Claims Enquiry Officer, if he is satisfied that there are reasonable grounds to condone the delay.

(3) Where the Claims Enquiry Officer does not accept the grounds advanced by the applicant he shall record speaking orders and communicate to the applicant reasons for not accepting the claim application.

21. Procedure to be followed by the Claims Enquiry Officer.—(1) On receipt of claims application, the Claims Enquiry Officer shall immediately obtain a copy of the FIR, inquest report, post mortem report or certificate of injury, as the case may be, from the concerned authorities and hold enquiry in respect of claims arising out of hit and run motor accidents.

(2) It shall be the duty of the Claims Enquiry Officer—

(a) to decide as to who are the rightful claimants, where there are more than one claimants;

(b) to submit, as early as possible, and in any case within a period of one month from the date of receipt of application a report in Form III alongwith duly discharged receipt in Form II and the undertaking in Form V alongwith his own recommendation.

(3) Where the Claims Settlement Commissioner has returned any report to the Claims Enquiry Officer for further enquiry under sub-clause (2) of clause 22, the Claims Enquiry Officer shall make such additional enquiries as may be necessary and re-submit the report to the Claims Settlement Commissioner within 15 days for final order.

22. Sanctioning of claims.—(1) On receipt of report of the Claims Enquiry Officer, the Claims Settlement Commissioner shall sanction the claim, as far as possible, within a period not exceeding fifteen days from the date of receipt of such report and communicate the sanction order in Form IV alongwith duly discharge receipt in Form II and the undertaking in Form V to the nominated officer of the insurance company, with a copy to the following:—

- (a) the Claims Enquiry Officer.
- (b) the claimant.
- (c) the concerned Motor Accident Claim Tribunal.
- (d) the concerned Transport Commissioner.
- (e) General Insurance Corporation headquarters.

(2) Where the Claims Settlement Commissioner has any doubt in respect of the report submitted by the Claims Enquiry Officer, he shall return the report to the Claims Enquiry Officer for further enquiry, indicating the specific points on which the enquiry is to be made.

23. Payment of compensation.—(1) In the case of claims arising out of the death, the payment shall be made to the legal representatives of the deceased decided by the Claims Enquiry Officer.

(2) In the case of claims arising out of grievous hurt, the payment shall be made to the person injured.

(3) The nominated office of the insurance company, immediately on receipt of the sanction order in Form IV together with discharge receipt in Form II and undertaking Form V shall make the payment to the claimant and despatch cheque/demand draft to the claimant through registered post AD and simultaneously send intimation to all the concerned authorities to whom the copy of the sanctioned order is endorsed.

(4) The payment to the claimant by the insurance company shall be made within 15 days from the date of receipt of the sanction order together with discharge receipt and wherever delay occurs, reasons therefore shall be explained to the Claims Settlement Commissioner.

(5) Registered letters containing cheque/demand draft, if returned undelivered from claimants shall be placed before the Claims Settlement Commissioner for further directions.

(6) The nominated officer of the insurance company shall furnish money return giving number and the date of the sanction order, date of receipt of sanctioned order payments made, sanction order pending for payment, to the Claims Settlement Commissioner with a copy to Claims Enquiry Officer and General Insurance Corporation Headquarters, Bombay.

24. Annual report.—The General Insurance Corporation shall prepare to place an annual report on the working of the scheme before the Standing Committee and also forward a copy to the Central Government.

FORM I
[Clause 20 (1)]

Form of application for compensation from Solatium Fund

I,son*/daughter*/widow* of Shri
residing at having been grievously injured in motor vehicle accident

hereby apply for grant of compensation for the grievous injuries sustained. Necessary particulars in respect of the injury sustained by me are given below:—

I,son of/daughter of/widow of* Shri
residing at

..... hereby apply as a legal representative/agent for the grant of compensation on account of death/injuries sustained by Shri/Shrimati/Kumarison of/daughter of/widow* of Shri
.....who

died/had sustained injuries in a motor vehicle accident on at
Particulars in respect of accident and other information are given below:—

1. Name and father's name of person injured (husband's name in case of married woman or widow):
2. Address of the person injured/dead:
3. Age.....Date of Birth.....
4. Sex of the person injured/dead:
5. Place, date and time of the accident:
6. Occupation of the person injured/dead:
7. Nature of injuries sustained:
8. Name and address of Police Station in whose jurisdiction accident took place or was registered:
9. Name and address of the Medical Officer/Practitioner who attended on the injured/dead:
10. Name and address of the claimant/claimants:
11. Relationship with the deceased:
12. Any other information that may be considered necessary or helpful in the disposal of the claim:

I hereby swear and affirm that all the facts noted above are true to the best of my knowledge and belief.

*Strike out whichever is not applicable.

SIGNATURE OF THE CLAIMANT

FORM II
[Clause 20 (i)]
ANNEXURE

Sanction order no.
Dated:.....

Discharge Receipt

Received with thanks fromInsurance Co. Ltd. sum of Rs.....being the compensation under hit and run provisions of the Motor Vehicles Act in full and final settlement of my claim for the accident occurred to me/to the deceased person.....(name of deceased) on.....(date of accident) at.....(name of place).

Witness:

Signature on revenue stamp
by beneficiary/victim

FORM III
[Clause 21 (2) (b)]

Claims enquiry report to be submitted by the Claims Enquiry Officer to the Claims Settlement Commissioner

1. Name and address of the person dead/injured:
2. Place, time and date of the accident:
3. Particulars of the Police Station in which the accident was registered:
4. Particulars of the Medical Officer/Practitioner who examined the dead/injured:
5. Particulars of persons summoned and examined:
6. Whether the fact of death/injury by hit and run motor accident has been established or not and the reason for coming to that conclusion:
7. The name and address of claimant(s) eligible for payment of compensation:
8. The amount of compensation recommended for payment to the claimant. (In case of more than one claimant the amount each one of the claimants is eligible and the reasons thereof shall be specified).
9. Any other information or records relevant or useful for the settlement of the claim.

Signature, designation
of the Claims Enquiry Officer.

Seal:

Date:

FORM IV
[Clause 22 (1)]

Serial No.....
Claims Settlement Commissioner
District.....

ORDER

I hereby sanction Rs. 8500/2000 (Rupees Eight Thousand Five Hundred only)/(Rupees Two Thousand only) as compensation in respect of the death of(Name of deceased)/grievous hurt to.....(Name of the injured) resulting from hit and run motor accidents which took place at.....(Name of place) on.....(Date) to Shri/Shrimati/Kumari.....as legal representative of the deceased (.....) or to.....(Name of injured).

Claims Settlement Commissioner

CC to:—

1. Office of the Insurance Company:
2. The Claimant;
3. Motor Vehicles Accident Claims Tribunals;
4. Claims Enquiry Officer;
5. General Insurance Corporation of India, Churchgate, Bombay-400020.

FORM V
[Clause 20(1)]
(Under section 162 of the Motor Vehicles Act, 1988)

I/We.....as legal representative(s) of the deceased/injured.....hereby give undertaking that I/we shall refund the amount of compensation awarded to me/us under sanction order No.....dated..... by the Claims Settlement Commissioner.....to the insurer in case I/we am/are awarded any other compensation or amount in lieu of or by way of satisfaction of a claim for compensation in respect of death or grievous hurt to.....under any other provisions of the Motor Vehicles Act, 1988 or any other law for the time being in force or otherwise.

Signature of the legal representative
of the deceased/injured person.

1. Vide S.O. 440 (E), dated 12th June, 1989, published in the Gazette of India, Extra., Pt. II, Sec. 3 (ii), dated 12th June, 1989.
2. Subs. by S.O. 668 (E), dated 7th October, 1991 (w.e.f. 7-10-1991).

THE MOTOR VEHICLES (NEW HIGH SECURITY REGISTRATION PLATES) ORDER, 2019

[No. S.O. 1018(E) 25th February, 2019]

Whereas, the Central Government is of the opinion that it is necessary and expedient in the public interest to notify that the process used by a manufacturer in regard to a high security registration plate for a motor vehicle shall conform to certain standards with reference to the Central Motor Vehicles Rule, 1989;

Now, therefore, in exercise of the power conferred by the sub-section (3) of section 109 of the Motor Vehicles Act, 1988 (59 of 1988) and in supersession of the Motor Vehicles (New High Security Registration Plates) Order, 2001, except as respect things done or omitted to be done before such supersession, the Central Government hereby makes the following order to specify such standards, namely:—

ORDER

1. Short title and commencement:-

(1) This Order may be called as the Motor Vehicles (High Security Registration Plates),

Amendment, Order, 2019.

(2) It shall come into force on the date of its publication in the Official Gazette.

3. Application. —This Order shall apply to motor vehicles as defined in clause (28) of section 2 of the Motor Vehicles Act, 1988 (59 of 1988).

4. A vehicle manufacturer shall comply with the following procedure in regard to High Security Registration Plates (HSRP) for the vehicles manufactured on or after 1st April, 2019 namely:-

(a) The type approved High Security Registration Plates including the third registration mark, shall be supplied by the vehicle manufacturers to their dealers, who shall place a mark of registration on such plates and affix them on the automobiles.

(b) A manufacturer of the motor vehicles shall ensure that the requisite infrastructure required for placing the mark of registration on the security licence plates and printing the third registration plate are available with their dealers.

(c) The cost of high security registration plate and its affixture on the vehicle after placing the mark of registration shall be included in the price of the new vehicle and no additional or itemised cost shall be charged from the vehicle purchaser by the dealer for the same.

5. (i) For the affixation of HSRP on existing vehicles, the high security registration plate including the third registration mark may be supplied and affixed by the dealers of the vehicle manufacturers after placing the mark of registration thereon.

(ii) The manufacturers or suppliers of high security registration plates, if so authorised by the state concerned, may also supply the high security registration plate including the third registration mark on old vehicles after placing the registration mark.

6. A manufacturer of the motor vehicles and their dealers or the manufacturers or suppliers of high security registration plates shall comply with the following specifications, namely: —

(i) The high security registration plates shall have a certificate from the Central Road Research Institute, New Delhi or any one of the testing agencies authorised by the Central Government under rule 126 of the Central Motor Vehicles Rules, 1989.

(ii) The Registration Plate shall conform to the specifications spelt out in rule 50 of the Central Motor Vehicles Rules, 1989.

(iii) The Registration Plate shall be guaranteed for imperishable nature for a period mentioned in rule 50 of the Central Motor Vehicles Rules, 1989 and in case of damage or withering due to natural usage before such period, it shall be replaced by the motor vehicles manufacturer or their dealers in respect of vehicles mentioned under para 4 above, or the licence plate manufacturer or suppliers or their dealers, as the case may be, in other cases.

(iv) The replacement for any existing registration plate may be made by the motor vehicles dealers or the authorised high security registration plate manufacturer or supplier, only after ensuring that the old plate has been surrendered and destroyed.

(v) (a) To protect against counterfeiting, a chromium-based hologram of the size 20 mm x 20 mm shall be applied by hot stamping on the top left-hand corner of the plate in both front and rear plates.

(b) The hologram shall contain CHAKRA in blue colour as specified in the Annexure appended to this Order.

(vi) The permanent identification number of minimum 10 digits shall be laser branded into the reflective sheeting on the bottom left-hand side of the registration plate with the letter size being 5 mm:

Provided that the permanent consecutive identification number shall be preceded by two alphabets representing the name of the vendor or the manufacturer or the supplier, as the case may be, for whom the type approval certificate shall be issued by the test agencies:

Provided further that the test agencies specified in column (2) of the Table below shall use the alphabets specified in column (3) and (4) of the said Table as under:—

TABLE

Sl.No	Name of Test Agency	First Alphabets	Second Alphabets
(1)	(2)	(3)	(4)
1.	Automotive Research Association of India, Pune	A to H	A to Z
2.	Central Road Research Institute, New Delhi	I to P	A to Z
3.	Vehicles Research Development Establishment, Ahmednagar	Q to S	A to Z
4.	International Centre for Automotive Technology, Manesar	T to V	A to Z
5.	Central Institute of Road Transport, Pune	X	A to Z
6.	Global Automotive Research Centre, Chennai	Y	A to Z:

Provided also that the height of the digits shall be 5mm for the front and rear registration plates and shall be 2.5 mm for the third registration plate, which shall be in the form of a sticker.

(vii) (a) The hot stamping film to be applied on the letters or numerals of the licence number shall bear the inscription "INDIA".

(b) The letters "INDIA" shall be in blue colour with the font size of 10 (Ten) in Type Arial Bold script at 45 degrees' inclination with sequential lines being the mirror image of the other.

(viii) (A) The third registration plate in the form of a self-destructive type chromium based hologram sticker shall be of the size of 100 mm x 60 mm is to be affixed on the inner side of left hand corner of windshield of the vehicle.

(B) The sticker shall be required to be a diffraction foil film with high reflective index and shall have the chromium based hologram embedded.

(C) The details on the sticker shall be-

- (a) Name of registering authority;
- (b) registration number of the vehicle;
- (c) laser branded permanent identification number;

and

- (d) Date of first registration of the vehicle.

(D) On the bottom of the right corner of the sticker, the chromium based hologram of size of 10 mmx10 mm shall be embedded and in the said sticker the registration number of the vehicle shall be in the centre with a letter size of 10 mm in height.

(E) The laser branded permanent identification number shall come in the bottom left side of the sticker with numeral size being 2.5mm.

(F) A depiction of the sticker shall be as specified in the Annexure appended to this Order.

(ix) (a) The background colour for the self-destructive type chromium based hologram sticker for the Diesel vehicles shall be Orange and it shall be Light Blue for the Petrol and CNG vehicles.

(b) For all other vehicles, the background shall be of grey colour.

(x) A proper record of the registration plates issued should be maintained on a daily basis by manufacturer of motor vehicle or dealer.

(xi) The unique high security registration plate shall be linked electronically to the vehicle after its affixture on the vehicle on registration.

(xii) The complete record of all the security features in their possession shall be maintained by manufacturer of motor vehicle or dealer which may be audited by the concerned testing agencies from time to time.

(xiii) The manufacturer of a motor vehicle shall exercise complete control over all the security features in their possession and shall be responsible for the use of any of the security feature on registration plate in the open market either by themselves or by any other person on their behalf.

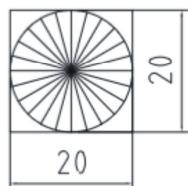
(xiv) The manufacturer of a motor vehicle shall not be authorized to sell incomplete plates or the security features separately to anyone:

Provided that they shall be authorised to replace the third number plate in form of the self-destructive tape sticker for the already registered vehicles as the case may be as per specification specified in subpara (ix).

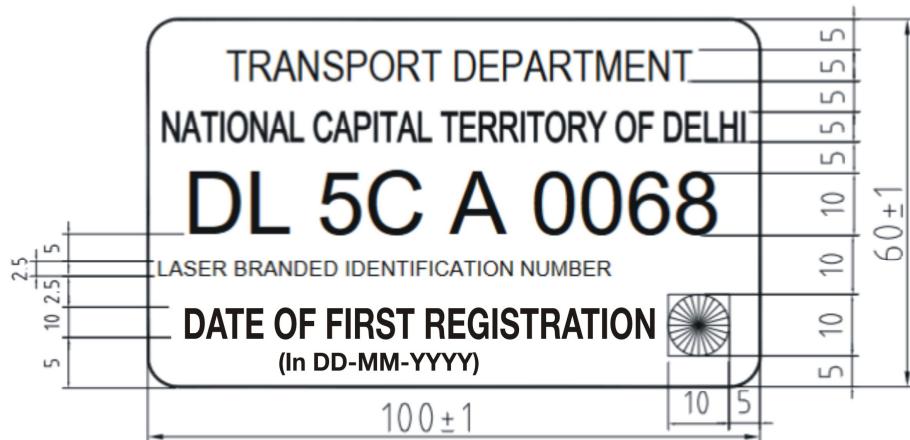
(xv) The type approval certificate issued shall be liable for suspension or cancellation by the concerned testing agency for failure to comply with these provisions.

ANNEXURE

1. HOLOGRAM (FRONT AND REAR REGISTRATION PLATE)



2. STICKER (THIRD REGISTRATION PLATE)



ALL DIMENSIONS ARE IN MM

SPECIFICATION OF TYPES OF MOTOR VEHICLES¹

[Section 41(4)]

No. S.O. 1248(E) dated 05-11-2004 - In exercise of the powers conferred by sub-section (4) of section 41 of the motor vehicles act, 1988 (59 of 1988) and in supersession of the notification of the government of india in the erstwhile ministry of surface transport number no. S.O. 451 (E), dated the 19th june, 1992, the central government hereby specifies the types of motor vehicles as mentioned in columns 1 and 2 of the table below for the purpose of said subsection (4).

TABLE

Transport Vehicle	Non-Transport Vehicle
(i) Motor cycle with side car for carrying goods.	i) Motor cycle with or without side car for personal use.
(ii) Motor cycle with trailer to carry goods.	(ii) Mopeds and motorised cycles (Engine capacity exceeding 25 cc).
(iii) Motor cycle used for hire to carry one passenger on pillion and motorised cycle-rickshaw for goods or passengers on hire.	(iii) Invalid carriage.
(iv) Luxury Cab.	(iv) Three-wheeled vehicles for personal use.
(v) Three wheeled vehicles for transport of passengers/goods.	(v) Motor car
(vi) Goods carrier trucks or tankers or mail carriers (N1-N3 category).	.(vi) Fork lift.
(vii) Power tiller and Tractors using public roads.	(vii) Vehicles or trailers fitted with equipments like rig, generator, compressor.
(viii) Mobile clinic or X-Ray van or library vans.	(viii) Crane mounted vehicle.
(ix) Mobile Workshops.	(ix) Agricultural Tractor and Power Tiller.
(x) Mobile canteens.	(x) Private service vehicle, registered in the name of an individual and if declared to be used by him solely for personal.
(xi) Private Service Vehicle.	(xi) Camper Van or Trailer for private use.
(xii) Public Service Vehicle such as maxi cab, motor cab, stage carriage and contract carriage including tourist Vehicles.	(xii) Tow Trucks, Breakdown Van and Recovery Vehicles.
(xiii) Educational Institution buses.	(xiii) Tower Wagons and tree trimming vehicles owned by Central, State and local authorities.
(xiv) Ambulances.	(xiv) Construction EquipmentVehicles as defined in rule 2(ca).*
(xv) Animal Ambulances.	(xv)
(xvi) Camper vans or trailers.	(xvi)
(xvii) Cash vans.	² [(xvii) Quadricycle].

(xviii) Fire tenders, snorked ladders, auxiliary trailers and fire fighting vehicles.	
(xix) Articulated vehicles.	
(xx) Hearses.	
(xxi) Omnibus*	
(xxii) Quadricycle	

(a) "**Ambulance**" means vehicle specially designed, constructed or modified and equipped and intended to be used for emergency transportation of persons who are sick, injured, wounded or otherwise incapacitated.

(b) "**Animal ambulance**" means a motor vehicle intended to be used for the emergency transportation of sick, injured, wounded or otherwise incapacitated animals.

(c) "**Camper van**" means a special purpose M 1 category vehicle constructed to include living accommodation which contains at least the following equipment:

- Seats and table
- Sleeping accommodation which may be converted for the seats
- Cooking facilities, and
- Storage facilities.

This equipment shall be rigidly fixed to the living compartment; however, the table may be designed to be easily removable.

*(d) The "**Omnibus**" has been kept in the category of transport vehicle with a view to bringing it under the purview of fitness regime as it is exhaustively used on road. However, the taxes to be levied on such vehicle would fall within the jurisdiction of State Governments.

*(e) Under rule 2(ca), use of public road by Construction Equipment Vehicles is incidental to the main off-road function. However, when the public road is being used regularly for carrying on commercial activities, then Construction Equipment Vehicles such as dumpers and excavators being used for such activities, shall be deemed as transport vehicles.

¹. Vide S.O. 1248 (E), dated 5th November, 2004, published in the Gazette of India, Extra., Pt. II, Sec. 3(ii), dated 5th November, 2004.

¹. Vide S.O. 5800 (E), dated 20th November, 2018, published in the Gazette of India, Extra., Pt. II, Sec. 3(ii), dated 20th November, 2018.

REGISTRATION MARK FOR EACH STATE¹

[Section 41(6)]

S.O. 444(E) dated 12-06-1989 as subsequently amended. - In exercise of the powers conferred by sub-section (6) of section 41 of the Motor Vehicles Act, 1988 (59 of 1988), the Central Government hereby allots to the States and Union Territories specified in column (1) of the Table below, the groups of letters specified in the corresponding entry in column (2) thereof, the use as registration mark for each State and Union territory to be followed by the code number of the Registering Authority to be allotted by the State Government or as the case may be, Administrator of the Union territory and not exceeding four figures to be used as registration mark.

TABLE

	State/Union Territories	Group of letters
	(1)	(2)
1	Andaman and Nicobar	AN
2	Andhra Pradesh	AP
3	Arunachal Pradesh	AR
4	Assam	AS
5	Bihar	BR
6	Chandigarh	CH
² [7]	Chhattisgarh	CG
8	Dadra and Nagar Haveli and Daman and Diu	DD]
9	Delhi	DL
10	Goa	GA
11	. Gujarat	GJ
12	Haryana	HR
13	Himachal Pradesh	HP
14	Jammu and Kashmir	JK
³ [14A]	Jharkhand	JH]
15	. Karnataka	KA
16	Kerala	KL
17	Lakshadweep	LD
⁶ [17a]	Ladakh	LA]
18	Madhya Pradesh	MP
19	Maharashtra	MH
20	Manipur	MN
21	. Meghalaya	ML
22	Mizoram	MZ
23	Nagaland	NL
24	Orissa	OR
25	Pondicherry	PY

26	Punjab	PN
27	Rajasthan	RJ
28	Sikkim	SK
29	Tamil Nadu	TN
⁵ [29a]	Telangana	TS]
30	Tripura	TR
31	Uttar Pradesh	UP
⁴ [31A.]	Uttaranchal	UA]
32	West Bengal	WB

¹. Vide S.O. 444 (E), dated 12th June, 1989, published in the Gazette of India, Extra., Pt. II, Sec. 3(ii), dated 12th June, 1989.

². Ins. by S.O. 295 (E), dated 20th January, 2020, (w.e.f 26th January, 2020).

³. Ins. by S.O. 14 (E), dated 5th January, 2001.

⁴. Ins. by S.O. 1080 (E), dated 30th November, 2000.

⁵. Ins. by S.O. 1486((E), dated 09th June, 2014.

⁶. Ins. by S.O. 4262 (E), dated 25th November, 2019.

MAXIMUM GROSS VEHICLE WEIGHT AND SAFE AXLE WEIGHT

[Section 58(1)]

S.O. 728(E), dated 18-10-1996. – In exercise of the powers conferred by sub-section (1) of section 58 of the Motor Vehicles Act, 1988 (59 of 1988) and in supersession of the notification of the Government of India in the Ministry of Surface Transport S.O. No. 479(E), dated the 4th July, 1996, the Central Government hereby specifies that in relation to the transport vehicles (other than motor cabs) of various categories detailed in the Schedule below, the maximum gross vehicle weight and the maximum safe axle weight of each axle of such vehicles shall, having regard to the size, nature and number of tires and maximum weight permitted to be carried by the tires as per rule 95 of the Central Motor Vehicles Rules, 1989, be-

(i) vehicle manufacturers rating of the gross vehicle weight and axle weight respectively for each make and model as duly certified by the testing agencies for compliance of rule 126 of the Central Motor Vehicles Rules, 1989, or

(ii) the maximum gross vehicle weight and the maximum safe axle weight of each vehicle respectively as specified in the Schedule below for the relevant category, or

(iii) the maximum load permitted to be carried by the tire(s) as specified in the rule 95 of the Central Motor Vehicles Rules, 1989, for the size and number of the tires fitted on the axle(s) of the relevant make and model, whichever is less:

Provided that the maximum gross vehicle weight in respect of all such transport vehicles, including multi-axle vehicles shall not be more than the sum total of all the maximum safe axle weight put together subject to the restrictions, if any, on the maximum gross vehicle weight given in the said Schedule.

SCHEDULE

Transport Vehicles Category	Max GVW (Tonnes)	Maximum Safe Axle Weight
(1)	(2)	(3)
I - Rigid Vehicles		
(i) Two Axle One tyre on front axle Two tyres on rear axle	9.0	3 tonnes on Front Axle . 6 tonnes on Rear Axle
(ii) Two Axle		

Two tyres on each axle.	12.0	6 tonnes on From Axle 6 tonnes on Rear Axle
(iii) Two Axle Two tyres on front axle four tyres on rear axle.	16.2	6 tonnes on Front Axle 10.2 tonnes on Rear Axle
(iv) Three Axle Two tyres on front axle Eight tyres on rear tandem axle	25.0	6 tonnes on front axle 19 tonnes on rear tandem axle
(v) Four Axle Four tyres on two front axle Eight tyres on rear tandem axle	31.0	12 tonnes on two front axle 19 tonnes on rear tandem axle
II - Semi Articulated Vehicles		
(i) Two axle Tractor single axle trailer Tractor Two tyres on front axle four tyres on rear axle. Trailer: four tyres on rear axle	26.4	6 tonnes on Front Axle 10.2 tonnes on Rear Axle 10.2 tonnes on single Axle
(ii) Two axle Tractor Tandem axle trailer Tractor Two tyres on front axle four tyres on rear axle. Trailer: Eight tyres on tandem axle	35.2	6 tonnes on Front Axle 10.2 tonnes on Rear Axle 19.0 tonnes on tandem Axle
(iii) Two axle Tractor Tandem axle trailer Tractor Two tyres on front axle four tyres on rear axle. Trailer: Twelve tyres on three axle	40.2	6 tonnes on Front Axle 10.2 tonnes on Rear Axle 24.0 tonnes on three Axle
(iv) Three axle Tractor Single axle trailer Tractor Two tyres on front axle Eight tyres on tandem axle. Trailer: Eight tyres on single axle	35.2	6 tonnes on Front Axle 19.0 tonnes on tandem Axle 10.2 tonnes on single Axle
(v) Three axle Tractor Tandem axle trailer Tractor Two tyres on front axle Eight tyres on rear tandem axle. Trailer: Eight tyres on tandem axle.	44.0	6 tonnes on Front Axle 19.0 tonnes on rear tandem axle 19.0 tonnes on tandem axle
(vi) Three axle Tractor Three axle trailer		

Tractor Two tyres on front axle Eight tyres on rear tandem axle. Trailer: Twelve tyres on three axle.	49.0	6 tonnes on Front Axle 19.0 tonnes on rear tandem axle 24.0 tonnes on rear three axle
III - Truck Trailler Combinations		
(i) Two axle Truck Two axle trailer Tractor Two tyres on front axle four tyres on rear axle. Trailer: Four tyres on front axle four tyres on rear axle.	36.6	6 tonnes on Front Axle 10.2 tonnes on Rear Axle 10.2 tonnes on front axle 10.2 tonnes on Rear Axle
(ii) Three axle Truck Two axle trailer Tractor Two tyres on front axle Eight tyres on rear tandem axle. Trailer: Four tyres on front axle four tyres on rear axle.	45.4 (restricted to 44.0)	6 tonnes on Front Axle 19.0 tonnes on rear tandem axle 10.2 tonnes on front axle 10.2 tonnes on Rear Axle
(iii) Two axle Truck Three axle trailer Tractor Two tyres on front axle Four tyres on rear axle Trailer: Four tyres on front axle Eight tyres on rear tandem axle	45.4 (restricted to 44.0)	6 tonnes on Front Axle 10.2 tonnes on Rear Axle 10.2 tonnes on front axle 19.0 tonnes on rear tandem axle
(iv) Three axle Truck Three axle trailer Tractor Two tyres on front axle Eight tyres on rear tandem axle Trailer: Four tyres on front axle Eight tyres on rear tandem axle	54.2 (restricted to 44.0)	6 tonnes on Front Axle 19.0 tonnes on rear tandem Axle 10.2 tonnes on front axle 19.0 tonnes on rear tandem axle

MAXIMUM SPEED OF MOTOR VEHICLES

[Section 112(1)]

S.O. 1522(E), Dated 06th April 2018 —In exercise of the powers conferred by the proviso to sub-section (1) of section 112 of the Motor Vehicles Act, 1988 (59 of 1988) and in suppression of the notification of the Government of India in the Ministry of Road Transport and Highways published in the Gazette of India, Extraordinary, Part II, Section 3, Sub-Section (ii) vide number S.O.1997(E) dated the 5th August, 2014, excepts as respect things done or omitted to be done before such supersession, Central Government hereby fixes the maximum speed in respect of the class of motor vehicles as specified in the table below

TABLE

Maximum speed per hour in kilometres on roads in India					
Sl. No.	Class of Motor Vehicles	Expressway with Access Control	4 lane and above divided carriageway (roads with Median strips/Dividers)	Road within Municipal Limits	Other Roads
(1)	(2)	(3)	(4)	(5)	(6)
1	Motor vehicles used for carriage of passengers comprising not more than eight seats in addition to the driver's seat (M1 category vehicles)	120	100	70	70
2	Motor vehicles used for carriage of passengers comprising nine or more seats in addition to the driver's seat (M2 and M3 category Vehicles)	100	90	60	60
3	More vehicles used for carriage of goods (All N category Vehicles)	80	80	60	60
4	Motor Cycles	80*	80	60	60
5	Quadricycle	-	60	50	50
6	Three wheeled vehicles	-	5-	50	50

* If permitted to ply on Expressway.

No cognizance of the violation of the speed limits shall be taken under section 183 of the Motor Vehicles Act, 1988, if the speed detected is within 5 per cent of the maximum speed specified in this notification

MOTOR VEHICLES (VEHICLE LOCATION TRACKING DEVICE AND EMERGENCY BUTTON) ORDER, 2018

[No. S.O. 5453(E) 25th October, 2018]

in exercise of the powers conferred under sub-section (3) of section 109 of Motor Vehicles Act, 1988 (59 of 1988), the Central Government hereby makes the following order to specify such standards, namely: -

This Order shall apply to all public service vehicles specified in sub-rule (1) of rule 125H of the Central Motor Vehicles Rules, 1989.

The overall approach for installation of Vehicle Location Tracking Device and Emergency Button (VLT) on public service vehicles shall be as follows:

(a) The VLT device manufacturers shall get their devices tested and certified from any of the testing agencies referred to in rule 126 of the Central Motor Vehicles Rules, 1989.

(b) The State or Union Territories shall ensure compliance to rule 125 H of Central Motor Vehicles Rules, 1989 and check fitment and functional status of the VLT device in the public service vehicles at the time of checking of the vehicles for fitness certification.

(c) The public service vehicle owner shall have freedom to choose or install the VLT device of his choice from any of the manufacturers as long as it is Type approved as per Central Motor Vehicles Rules, 1989.

(d) The Command and Control Centres or such other centre setup by the State or VLT manufacturers or any other agency authorised by the State Government shall be used to provide interface to various stakeholders such as State emergency response centre, the transport department or Regional Transport Offices, Ministry of Road Transport and Highways and its designated agency, device manufacturers and their authorised dealers, testing agencies, permit holders, etc. as per code of practice of AIS 140.

(e) The Command and Control Centre or such other centre shall also provide feed to the VAHAN data base or the relevant data base of the State with regard to the over speeding, device health status.

(f) The details of each VLT device as per annexure shall be uploaded on the VAHAN database by the VLT device manufacturer using its secured authenticated access. The VLT device manufacturers or their authorised

dealers shall install the VLT devices in public service vehicles and register the devices along with details of vehicle on the corresponding backend systems in real-time.

(g) The public service vehicle owners have to ensure that the VLT devices installed in their vehicles are in working condition and regularly send required data to the corresponding backend system through cellular connectivity.

(h) VLT device manufacturers shall get their devices tested for conformity of production every year after the first certification, from the testing agencies referred to in rule 126 of the Central Motor Vehicles Rules, 1989.

(i) The testing agencies shall upload the details of the VLT devices certified by them on the VAHAN data base. They shall also update the status relating to the Conformity of Production on the VAHAN data base.

(j) The State or Union Territories shall publish Internet Protocol address (IP address) and Short Message Service Gateway (SMS gateway) details of their respective emergency response system where VLT devices shall send the emergency alerts on press of emergency button.

(k) The VLT device manufacturers or their authorised dealers, at the time of installation of VLT device in public service vehicles, shall configure the Internet Protocol address (IP address) and Short Message Service Gateway (SMS gateway) details in the device for sending emergency alerts to the emergency response system of the State or Union Territory concerned.

(l) VLT device manufacturers or their authorised dealers shall provide comprehensive warranty/maintenance support for the VLT device and facilitate cellular connectivity for a minimum period of two years for new public service vehicles and one year for other vehicles.

(m) The VLT device manufacturers may offer value added services, in addition to the mandatory performance requirements to the public service vehicle owners as per the mutual agreement between them.

Annexure

Integration of the retro-fitted Vehicle Location Tracking Device and Emergency Button (VLT) on Public Service Vehicles with the VAHAN-database.

For the retro-fitment of Vehicle Location Tracking Device and Emergency Button (VLT) for the public service vehicles, the following be ensured with

respect to linking of approved VLT Devices with the specific vehicle model through VAHAN database.

1. VLT Devices fitted on the vehicle shall be type approved as per AIS:140.

2. After the type approval, NIC shall issue a unique username and password to each VLT Device manufacturer for uploading the Type approval data on VAHAN portal.

3. VLT Devices Manufacturers shall upload the following data for every device in VAHAN portal :

- a) VLT Device make and model
- b) Type Approval Certificate (TAC) and / or Conformity of Production Certificate (COP) as applicable
- c) IMEI Number
- d) Icc ID Number
- e) Unique identification number as per following format:

Four alphanumeric characters	Two alphanumeric character	One alphabetical character for Test Agency	Four numerical digits	Eight numerical digits
For name of Manufacturer	For name of the model	[A] - Automotive Research Association of India [C] - Central Institute of Road Transport [I] - International Centre for Automotive Technology [V]- Vehicle Research & Development Establishment [F] - Central Farm Machinery Training & Testing Institute [P] - Indian Institute of Petroleum [G] - Global Automotive Research Centre, Chennai	For month and year of manufacture in format MMYY	For Production Sr.No

4. The authorised dealer of the VLT manufacturer shall enter the Unique Identification number in VAHAN database for the purposes of linking the VLT device to the specific public service vehicle. In case the VLT device is installed by the public service vehicle manufacturer, then the above process shall be undertaken by the vehicle manufacturer.

5. Regional Transport Offices shall verify the unique identification number of VLT device at the time of fitness testing.