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भारतीय मानक प्रारूप

दो पहिया मोटर वाहन - स्थान, नियंत्रण की पहचान और संचालन टेल-टेल्स और संकेतक

Draft Indian Standard

TWO WHEELED MOTOR VEHICLES - LOCATION, IDENTIFICATION AND OPERATION OF CONTROLS, TELL-TALES AND INDICATORS

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Automotive Body, Chassis, Accessories and Garage Equipments Sectional Committee, TED 6

FOREWORD

(Formal Clause to be added later)

This draft Indian Standard shall be adopted by Bureau of Indian Standards, after the draft finalized by the Automotive Body, Chassis and Accessories Sectional Committee is approved by the Transport Engineering Division Council.

This standard is prepared based on requirements of AIS-126 and UN GTR 12 for Two Wheeler Tell-tales.

The following modification has been done in this version of standard as compared to UN GTR 12

~~i~~) Inclusion of provisions related to~~,~~ State of Charge indication in caser of electric vehicles,
ii) Additional inclusion of L1 category vehicles in the scope.
iii) Addition of clarity on mandatory indicator requirements e.g. fuel indicator
iv) Addition of Annexure on Technical Information to be Submitted by manufacturer
v) Detailed extension criteria for approval

The composition of the Committee responsible for the formulation of this standard is given in Annex B (will be added later)

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of test or analysis, shall be rounded off in accordance with IS 2:2022 'Rules for rounding off numerical values (*second revision*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

Draft Indian Standard

TWO WHEELED MOTOR VEHICLES - LOCATION, IDENTIFICATION AND OPERATION OF CONTROLS TELL-TALES AND INDICATORS

1 SCOPE

This standard applies to power-driven vehicles of category L1 and L2 as defined in IS 14272: 2011

2 REFERENCES

The following standards contain provisions which, through reference in this text, constitute provisions of this standard. At the time of publication the editions indicated were valid. All standards are subject to revision and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below:

IS No./Other Standards	*Title*
IS 14272 : 2011	Automotive Vehicles -Types - Terminology
AIS-009 (Rev 1):2011	Installation requirements of lighting and light signalling devices for L category vehicles
AIS 126: 2014	Two Wheeled Motor Vehicles - Location, Identification and Operation of Controls, Tell-tales and Indicators
AIS 000: 2013	Administrative Procedure to deal with Corrigendum, Amendments or Revisions to AIS, TAP 115/116, CMVR Notifications, IS and ISO standards, which are notified under CMVR
AIS-038 (Rev.1):2015	Electric Power Train Vehicles- Construction and Functional Safety Requirements
AIS 156: 2020	Specific Requirements for L Category Electric Power Train Vehicles Part I: Requirements of a Vehicle with Regard to its Electrical Safety Part II: Requirements of a Rechargeable Electrical Energy Storage System (REESS) with Regard to its Safety

3 DEFINITIONS

For the purposes of this standard, the following definitions apply.

3.1 Adjacent — With respect to a symbol identifying a control, tell-tale or indicator, means that the symbol is in close proximity to the control, tell-tale or indicator and no other control, tell-tale, indicator, identification symbol or source of illumination appears between an identification symbol and the control, tell-tale, or indicator which that symbol identifies.

3.2 Common Space — An area on which more than one tell-tale, indicator, identification symbol, or other message may be displayed but not simultaneously.

3.3 Control — Any part of the vehicle or a device directly actuated by the driver which changes the state or functioning of the vehicle or any part thereof.

3.4 Device — An element or an assembly of elements used to perform one or more functions.

3.5 Handlebars — Any part of the bar or bars connected to the head of the forks (steering head) by means of which the vehicle is steered.

3.6 Handlebars: Right Side — Any part of the handlebars which, when facing the direction of forward movement, lies on the right side of the longitudinal median plane of the vehicle.

3.7 Handlebars: Left Side — Any part of the handlebars which, when facing the direction of forward movement, lies on the left side of the longitudinal median plane of the vehicle.

3.8 Handlebars: Forward — Any part of the handlebars lying on the side furthest from the driver when seated in a driving position.

3.9 Handgrip — Part of the handlebars, furthest from the centre, by which the handlebars are held by the driver of the vehicle.

3.10 Rotating Handgrip — Handgrip, operating some functional mechanism of the vehicle, which is free to rotate around the handlebar when so turned by the driver of the vehicle.

3.11 Frame — Any part of the frame, chassis or cradle of the vehicle, to which is attached the engine and/or transmission unit, and/or the engine and transmission unit itself.

3.12 Frame Left Side — Any part of the frame which, when facing the direction of forward movement, lies on the left side of the longitudinal median plane of the vehicle.

3.13 Frame Right Side — Any part of the frame which, when facing the direction of forward movement, lies on the right side of the longitudinal median plane of the vehicle.

3.14 Lever — Any device consisting of an arm turning on a fulcrum, by means of which some functional mechanism of the vehicle is operated.

3.15 Hand Lever — Lever operated by the hand of the driver.

> NOTE — Unless otherwise stated, a hand lever is operated by compression, (that is, movement of the apex of the lever towards the supporting structure), e.g. to engage a brake mechanism or to disengage the clutch mechanism.

3.16 Foot Lever — Lever operated by contact between the foot of the driver and a spur projecting from the arm of the lever.

3.17 Pedal — Lever operated by contact between the foot of the driver and a pad on the lever, so placed as to allow pressure to be applied to the arm of the lever.

NOTE — Unless otherwise stated, a pedal is operated by depression, for example to engage a brake mechanism.

3.18 Rocker Arm — Lever, pivoted at or near its centre and having a pad or spur at each end, operated by contact between the foot of the driver and the said pads or spurs.

3.19 Clockwise — Direction of rotation around the axis of the part considered, following the motion of the hands of a clock when viewed from the upper or the outer side of the part considered.

3.20 Anti-Clockwise — The inverse meaning of Clockwise.

3.21 Combined Brake — A system of operation (by hydraulic action or mechanical linkage, or both) whereby both the front and the rear brakes of the vehicle are brought into operation at least partially by the use of only one control.

3.22 Indicator — A device which presents information on the functioning or situation of a system or a part of a system, for example a fluid level.

3.23 Tell-Tale — Optical signal which indicates the actuation of a device, correct or defective functioning or condition, or failure to function.

3.24 Symbol — Diagram from which to identify a control, a tell-tale or an indicator.

3.25 Optical Warning Device — Headlamp where the beam can be flashed to give signals to the oncoming or preceding traffic, e.g., when a vehicle is about to overtake a slower preceding vehicle.

3.26 Master Lighting Switch — Switch connecting or cutting off supply of current to circuits of lighting devices referred to in *clause* **5.10** and **5.11** of AIS-009 (Rev 01)-2011.

4 REQUIREMENTS

4.1 General

A vehicle, if fitted with a control, tell-tale or indicator identified in Table 1, shall comply with the requirements of this standard with respect to the location, identification, operation, illumination, and colour of that control, tell-tale or indicator.

For functions for which no symbol is available in Table 1, the manufacturer may use a symbol following the appropriate standards. Where no symbol is available, the manufacturer may use a symbol of its own conception. Such a symbol shall not cause confusion with any symbol specified in Table 1.

4.2 Location

4.2.1 The controls, listed in Table 1, shall be located so that they are operable and within reach of the driver when seated in the driving position. However, the controls for Manual Choke and Manual Fuel Tank Shutoff Valve shall be so located that they are operable and within reach of the driver when seated.

4.2.2 The tell-tales and indicators listed in Table 1, and their identification symbols shall be located so that they are visible to a driver when seated in the driving position, during daylight and night-time driving. Tell-tales, indicators and their identification symbols need not be visible when not activated.

4.2.3 The identification symbols for controls, tell-tales, and indicators shall be placed on or adjacent to the controls, tell-tales or indicators that they identify except as provided in *clause* **4.2.5**.

4.2.4 Controls for hazard warning lamps, passing and driving beam headlamps, direction indicators, supplemental engine stop, audible warning device, brakes and clutch shall be always accessible to the driver as primary function of the corresponding control without the removal of the driver's hands from the respective handgrips.

4.2.5 Requirement of *clause* **4.2.3** does not apply to multi-function controls, if the control is associated with a multi-task display the following:

a) Is visible to the driver; and
b) Identifies the control with which it is associated; and
c) Identifies all of the vehicle systems for which control is possible from the multi-function control. Sub-functions of those systems need not be shown on the top-most layer of the multi-task display, and
d) Does not display tell-tales listed in Table 1.

4.3 Identification

4.3.1 Each control, tell-tale and indicator listed in Table 1, shall be identified by the relevant specified symbol.

4.3.2 Supplementary symbols, words or abbreviations may be used at the manufacturer's discretion in conjunction with any symbol, word or abbreviation specified in Table 1.

4.3.3 Each additional or supplementary symbol, word or abbreviation used by the manufacturer shall not cause confusion with any symbol specified in this global technical regulation.

4.3.4 If the control, indicator or tell-tale for the same function are combined, one symbol may be used to identify that combination.

4.3.5 All identification symbols for the tell-tales, indicators and controls provided on handle bar or instrument cluster shall be positioned so as to appear to the driver to be perceptually upright

except the symbol for an audible warning device control. For rotating controls that have an "off" position, this requirement applies to the control in the "off" position.

4.3.6 When fitted, each control that regulates a system function over a continuous range shall have identification provided for the limits of the adjustment range.

4.4 Illumination

4.4.1 At the manufacturer's option, any control, indicator and their respective identification symbols may be capable of being illuminated.

4.4.2 A tell-tale shall emit light when the malfunction or vehicle condition it is meant to indicate occurs. It shall not emit light at any other time, except during a bulb check.

4.5 Colour

4.5.1 The light of each tell-tale shall be of the colour as specified in Table 1.

4.5.2 The colour of tell-tales not listed in Table 1 can be selected by the manufacturer in accordance with *clause* **4.5.3**. The colour selected shall not mask or interfere with the identification of any tell-tale, control or indicator specified in Table 1.

4.5.3 Colours are recommended in accordance with the following colour code:

4.5.3.1 Red: danger to persons or very serious damage to equipment is immediate or imminent;

4.5.3.2 Amber (yellow): caution, outside normal operating limits, vehicle system malfunction, damage to vehicle likely, or other condition which may produce hazard in the longer term;

4.5.3.3 Green: safe, normal operating condition (except if blue or amber is required by Table 1).

4.5.4 Each symbol used for the identification of a tell-tale, control or indicator shall be in a colour that stands out clearly against the background.

4.5.5 The filled-in part of any symbol may be replaced by its outline and the outline of any symbol may be filled in.

4.6 Common Space for Displaying Multiple Messages

A common space may be used to show information from any source, subject to the following requirements:

4.6.1 The tell-tales and indicators displayed in the common space shall meet the requirements of *clause* **4.3**, **4.4** and **4.5** and shall illuminate at the initiation of the condition they are designed to identify.

4.6.2 The tell-tale and indicators that are listed in Table 1 and are shown in the common space shall illuminate at the initiation of any underlying condition.

4.6.3 Except as provided in *clause* **4.6.4**, **4.6.5** and **4.6.6**, when the condition exists for actuation of two or more tell-tales, the information shall be either

a) Repeated automatically in sequence; or
b) Indicated by visible means and capable of being selected by the driver when seated in the driving position.

4.6.4 The tell-tales for the brake system malfunction, headlamp driving beam and direction indicator shall not be shown in the same common space.

4.6.5 If condition of activation exists for the following tell-tales: brake system malfunction, headlamp driving beam and direction indicator are displayed on a common space with other tell-tale, they shall have priority over anything else in the common space.

4.6.6 Information displayed in the common space may be capable of being cancelled automatically or by the driver, except the tell-tales for brake system malfunction, headlamp driving beam, direction indicator and those for which the colour red is required by Table 1 shall not be capable of being cancelled if the condition exists for their activation.

5 TYPE APPROVAL

5.1 The manufacturer shall submit following for type approval of a vehicle.

a) Application for type approval;
b) Technical specification of the vehicle which shall include at least the details given in **Annex A**. As an alternate to information in **Annex A**, the manufacturer may submit a drawing or information in tabular format, indicating these details; and
c) Prototype of vehicle for verification.

5.2 Modifications/Changes in Technical Specification

5.2.1 Every functional modification in technical specifications pertaining to controls, tell-tales and indicators declared in accordance with *clause* **5.1(b)** shall be intimated to the testing agency. Testing agency may then consider, whether;

5.2.1.1 Vehicle with modifications complies with specified requirements, or;

5.2.1.2 Any verification is required.

5.2.2 For considering whether verification is required or not, guidelines given in Table 2 shall be followed.

TABLE 2

Sl. No.	Parameter and Change	Verification to be conducted
1)	Addition of a variant having no additional control, tell-tale or indicator and no change in the location, identification or operation of any control, tell-tale or indicator with respect to the base model.	No verification required, if manufacturer declares so.
2)	Addition of a variant having additional control, tell-tale or indicator.	Verification is required only for additional control, tell-tale or indicator.
3)	Addition of a variant having change in location, identification or operation of control, tell-tale or indicator with respect to the base model.	Verification is required only for changed location, identification or operation of control, tell-tale or indicator.
4)	Addition of control, tell-tale or indicator in approved model / variant (s).	Verification is required only for additional control, tell-tale or indicator.
5)	Change in location, identification or operation of control, tell-tale or indicator in approved model / variant (s).	Verification is required only for Changed location, identification or operation of control, tell-tale or indicator.
6)	Deletion of control, tell-tale or indicator in above cases.	To verify whether the requirements of standard are complied after that deletion.

NOTE — Changes other than those listed in Table 2 are considered to have no adverse effect on the requirements of this standard.

5.2.3 In case of *clause* **5.2.1.2**, verification for those parameters which are affected by the modifications only need to be carried out.

5.2.4 In the event of *clause* **5.2.1.1** or in the case of *clause* **5.2.1.2** after successful compliance to requirements, the certificate of compliance shall be validated for the modified version.

6 EXTENSION OF TYPE APPROVAL

The details of selection of model / variant (s) for verification and verifications to be done in case of change in Technical Specifications of approved model / variant (s) are given in Table 2.

7 CONFORMITY OF PRODUCTION

Conformity of Production procedure as and when mandated by the Ministry of Road Transport and Highways (MoRTH) shall be applicable.

8 TRANSITIONAL PROVISIONS

8.1 At the request of the applicant, type approvals of vehicles for compliance to AIS 126shall be granted by test agencies Such type approvals shall be deemed to be compliance to AIS-126 as amended from time to time.

8.2 At the request of applicant, type approval to the compliance to AIS 126 as amended from time to time shall be granted up to the notified date of implementation of this standard in official gazette of Ministry of Road Transport and Highways.

8.3 Type approvals granted to vehicles as per AIS 126 as amended from time to time shall be extended for compliance to this standard without any further verification.

9 ACCEPTANCE OF CHANGES IN UN GTR 12

Acceptance of changes in UN GTR 12 after the level described in *clause* **0.3** of introduction shall be as per AIS-000, as amended form time to time, as applicable, unless otherwise stated in this standard.

TABLE 1
(*See* 4.1)

Sl No.	Item	Symbol	Function	Location	Colour	Definition	Operation	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1.	Supplemental engine stop control (OFF)		Control	Located on -handle bar: Right side.			As a means of stopping the engine, alternative to the main switch or a decompression valve control, the vehicle may be equipped with an engine electrical power supply cut-out (Supplemental engine stop).	
2.	Supplemental engine stop control (RUN)							
3.	Ignition Switch		Control			The device that enables the engine to run, and may also allow operation of other electrical systems on a vehicle.	In the case of a rotary switch, the direction of motion shall be clockwise from the ignition “off” position to the ignition “on” position.	
4.	Electric Starter		Control					
5.	Manual Choke		Control	The control need not be visible from the rider’s position				
			Tell-tale		**Amber**			

Sl No.	Item	Symbol	Function	Location	Colour	Definition	Operation	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
6.	Neutral – (Gearbox Selection)		Tell-tale		Green		The tell-tale is illuminated when the gear selector is in neutral position.	
7.	Manual Fuel Tank Shutoff Valve (OFF)		Control	The control need not be visible from the rider's position.			The control shall have separate positive positions for "OFF", "ON" and "RESERVE" (where a reserve supply is provided). The control shall be in the ON position when it is in the direction downstream of the flow of fuel from the tank to the engine: in the OFF position when it is in a direction perpendicular to the flow of fuel, and in the RESERVE position (where applicable) when it is in the direction upstream of the flow of fuel. In case of a system in which the fuel flow is stopped when the engine is switched off,	
8.	Manual Fuel Tank Shutoff Valve (ON)							
9.	Manual Fuel Tank Shutoff Valve (RES)							

Sl No.	Item	Symbol	Function	Location	Colour	Definition	Operation	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
							and if equipped with a control, the symbols and control positions shall be the same as identified for Manual Fuel Shut-Off Control.	
10.	Speedometer		Indicator				The display shall be illuminated whenever the position lamp (if available) or headlamp is activated.	Mandatory: As per CMVR rule no 117.
11.	Audible warning device (Horn)		Control	On handlebars: Left side for vehicles with a gear selection control operated independently of a hand operated clutch or for vehicles without gear selection control. Alternatively, on handlebars : right side for vehicles with gear selection located on handlebars: left side and operated in			Push to activate	Mandatory: Fitment of Horn is mandatory as per CMVR rule No 119.

Sl No.	Item	Symbol	Function	Location	Colour	Definition	Operation	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
				conjunction with the hand operated clutch.				
12.	Driving beam (Main, high or upper beam), (Hi)		Control	On handlebars: left side for vehicles with a gear selection control operated independently of a hand operated clutch. or for vehicles without gear selection control. Alternatively, on handlebars right side for vehicles with gear selection located on handlebars : left side and operated in conjunction with the hand operated clutch.				Mandatory : For L2 Optional: For L1 As per AIS-009
			Tell-tale		Blue			

Sl No.	Item	Symbol	Function	Location	Colour	Definition	Operation	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
13.	Passing Beam (Dipped, low or lower Beam) - (Lo)		Control	On handlebars: left side for vehicles with a gear selection control operated independently of a hand operated clutchor for vehicles without gear selection control. Alternatively, on handlebars: right side for vehicles with gear selection located on handlebars; left side and operated in conjunction with the hand operated clutch.				
			Tell-tale		Green			
14.	Optical warning device		Control	Adjacent to the Driving Beam / Passing Beam Control			May be an additional function of the Driving Beam /Passing Beam Control When control is released, the beam	

Sl No.	Item	Symbol	Function	Location	Colour	Definition	Operation	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
							shall go back to the previous state.	
15.	Fog Lamps – Front		Control					
			Tell-tale		Green			
16.	Fog Lamps - Rear		Control					
			Tell-tale		Amber			
17.	Direction indicators		Control	Control(s) is/are to be located on the handlebar in clear view from the operator's seat and shall be marked clearly.			The control shall be so designed that, when viewed from the rider's seat, operation of the left hand portion or movement to the left of the control actuates the left side indicators and vice versa for the right side indicators.	Mandatory: As per CMVR rule No. 102, 103.
			Tell-tale		Green		The pair of arrows is a single symbol. When the controls or telltales for left and right turn operate independently, however, the two arrows may be considered separate	

Sl No.	Item	Symbol	Function	Location	Colour	Definition	Operation	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
							symbols and be spaced accordingly.	
18.	Hazard warning signal		Control			Represented by either the direction indicator tell-tale(s) flashing (Simultaneously) , or by the given triangle symbol.		
			Tell-tale		Red			
			Tell-tale		Green			
			Tell-tale		Red			
19.	Position Lamp		Control			Represented by the given symbols for position lamps, master lamp control and parking lamp but if all lamps are automatically lit when vehicle is in operation, no position or master lamp control symbol need appear. The tell-tale function may be provided by means of	In the case of a rotary switch, operation of the switch in a clockwise direction shall engage, progressively, the vehicle's position lights and then the vehicle's main lights. This shall not prevent the inclusion of additional switch positions provided that they are clearly indicated. The light control switch may be combined with the	
			Tell-tale		Green			
20.	Master lamp		Control					
			Tell-tale		Green			
21.	Parking Lamp		Control					
			Tell-tale		Green			

Sl No.	Item	Symbol	Function	Location	Colour	Definition	Operation	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
						instrument cluster illumination.	ignition switch if so desired.	
						If the Parking Lamp function is incorporated in the ignition switch, identification is optional.		
22.	Fuel Indicator		Indicator					
			Tell-tale		Amber			
23.	Engine coolant temperature		Indicator					
			Tell-tale		Red			
24.	Electrical Charging		Indicator					
			Tell-tale		Red			
25.	Engine Oil		Indicator					
			Tell-tale		Red			

Sl No.	Item	Symbol	Function	Location	Colour	Definition	Operation	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
26.	Engine speed control		Control	On handlebars : right side			**Hand operated control** — Rotating Handgrip Anti-clockwise rotation increases speed. The control shall be self closing to idle in a clockwise direction after release of the hand unless a vehicle speed control device is activated.	
27.	Front wheel brake		Control	On handlebars : right side, forward			**Hand lever —** The front wheel brake may operate with the rear wheel brake in the case of a combined brake system.	Mandatory as per IS 14664
28.	Foot rear wheel brakes control		Control	On the frame : right side			**Pedal —** The rear wheel brake may operate with the front wheel brake in the case of a combined brake system.	

Sl No.	Item	Symbol	Function	Location	Colour	Definition	Operation	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
29.	Hand rear wheel brake control		Control	On handlebars : left side, forward			**Hand lever —** Not allowed for vehicles with hand operated clutch. The rear wheel brake may operate with the front wheel brake in the case of a combined brake system.	
30.	Parking brake		Control				Hand lever or pedal	
31.	Clutch		Control	On handlebars: left side			**Hand lever —** Squeeze to disengage clutch. Shall not prohibit the use of devices on the left side of the vehicle that combine operations of a clutch and gear selector.	
32.	Foot selector Manual gear shift Control		Control	On the frame: left side			**Foot lever or rocker arm —** Moving the forward part of the foot lever or rocker arm shall progressively select the gears: upward movement of the forward part for shifting to a higher gear position and	

Sl No.	Item	Symbol	Function	Location	Colour	Definition	Operation	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
							downward movement for shifting to a lower gear position. If a separate, positive "neutral" position is provided, it shall be in either the first or second position in the gear selection order (i.e: 1-N-2-3-4-…. or N-1-2-3-4-….). However, for vehicles with an engine capacity of less than 200 cm^3, transmissions with the following shift patterns may be fitted: 1) Rotary pattern (i.e: N-1-2-3-4-5-N-1.) 2) Reverse pattern, where moving the forward part of the foot lever or rocker arm shall progressively select the gears:	

Sl No.	Item	Symbol	Function	Location	Colour	Definition	Operation	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
							a) Upward movement of the forward part for shifting to a lower gear position; and b) Downward movement for shifting to a higher rear position.	
33.	Hand Selector Manual gear shift Control		Control	On handlebars : left side			If the operation of the control is through rotation of the handgrip, the Anti-clockwise rotation shall progressively select gears giving an increased forward speed and conversely for a reduced forward speed. If a separate, positive "neutral" position is provided it shall be either in the first position or in the second position in the gear selection order (i.e.: N-1-2-3-4-… or 1-N-2-3-4…).	

Sl No.	Item	Symbol	Function	Location	Colour	Definition	Operation	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
34.	Anti-lock Brake System Malfunction		Tell-tale		Amber		If ABS Fitted	ABS will become mandatory with rule no 96 (4A) {GSR 310 (E) dated 16th March 2016 for specified category of vehicle.}
35.	Malfunction Indicator Lamp		Tell-tale		Amber	Shall be used to convey power-train related failures which may affect emissions.		Mandatory for vehicle with OBD
36.	State of Charge	As per *clause* **4.1** of this standard	Indicator					Mandatory for electric vehicles as per AIS-038 (Rev. 1) / AIS-156

ANNEX A
(*See* 5.1)

TECHNICAL INFORMATION TO BE SUBMITTED BY VEHICLE MANUFACTURER

Sl. No.	Parameter	Description
A.1	Name of vehicle manufacturer / importer	
A.2	Address of vehicle manufacturer / importer	
A.3	Vehicle model	
A.4	Variant (s)	
A.5	Control Locations and Identification (Please specify location, operation and symbol if provided, as applicable)	
A.5.1	Supplemental engine stop	
A.5.2	Ignition Switch	
A.5.3	Electric Starter	
A.5.4	Manual Choke	
A.5.5	Fuel Tank Shutoff Valve	
A.5.6	Audible warning device	
A.5.7	Head lamp Driving / Passing beam	
A.5.8	Optical warning device	
A.5.9	Fog Lamps - Front	
A.5.10	Fog Lamps - Rear	
A.5.11	Direction indicators	
A.5.12	Hazard warning signal	
A.5.13	Position Lamp	
A.5.14	Master lamp	
A.5.15	Parking Lamp	
A.5.16	Engine speed control	
A.5.17	Front wheel brake	
A.5.18	Foot rear wheel brakes control	
A.5.19	Hand rear wheel brake control	
A.5.20	Parking brake	
A.5.21	Clutch	
A.5.22	Foot selector Manual gear shift Control	
A.5.23	Hand Selector Manual gear shift Control	
A.5.24	Any other control	
A.5.3	Tell-tales	
A.5.3.1	Manual Choke	
A.5.3.2	Neutral – (Gearbox Selection)	
A.5.3.3	Head lamp Driving beam	
A.5.3.4	Head lamp Passing beam	

A.5.3.5	Fog Lamps - Front	
A.5.3.6	Fog Lamps - Rear	
A.5.3.7	Direction indicators	
A.5.3.8	Hazard warning signal	
A.5.3.9	Position Lamp	
A.5.3.10	Master lamp	
A.5.3.11	Parking Lamp	
A.5.3.12	Fuel indicator	
A.5.3.13	Engine coolant temperature	
A.5.3.14	Electrical Charging	
A.5.3.15	Engine Oil	
A.5.3.16	Anti-lock Brake System Malfunction	
A.5.3.17	Malfunction Indicator Lamp	
A.5.3.18	Any other tell-tale	
A.5.4	Indicators	
A.5.4.1	Speedometer	
A.5.4.2	Fuel Indicator	
A.5.4.3	Engine coolant temperature	
A.5.4.4	Electrical Charging	
A.5.4.5	Engine Oil	
A.5.4.6	Any other Indicator	

ANNEX B
(*Foreword*)

COMMITTEE COMPOSITION

AUTOMOTIVE BODY, CHASSIS, ACCESSORIES AND GARAGE EQUIPMENTS SECTIONAL COMMITTEE, TED 6

Will be added later