

AUTOMOTIVE INDUSTRY STANDARD

**Specific Exemptions for Armoured
Vehicles from the notified provisions
under the Central Motors Vehicles Rules,
1989**

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ON BEHALF OF
AUTOMOTIVE INDUSTRY STANDARDS COMMITTEE

UNDER
CENTRAL MOTOR VEHICLE RULES – TECHNICAL STANDING COMMITTEE

SET-UP BY
MINISTRY OF ROAD TRANSPORT and HIGHWAYS
(DEPARTMENT OF ROAD TRANSPORT and HIGHWAYS)
GOVERNMENT OF INDIA

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under the Central Motors Vehicles Rules, 1989**

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INTRODUCTION

The Government of India felt the need for a permanent agency to expedite the publication of standards and development of test facilities in parallel when the work on the preparation of the standards is going on, as the development of improved safety critical parts can be undertaken only after the publication of the standard and commissioning of test facilities. To this end, the erstwhile Ministry of Surface Transport (MOST) has constituted a permanent Automotive Industry Standards Committee (AISC) vide order No. RT-11028/11/97-MVL dated September 15, 1997. The standards prepared by AISC will be approved by the permanent CMVR Technical Standing Committee (CTSC). After approval, the Automotive Research Association of India, (ARAI), Pune, being the Secretariat of the AIS Committee, has published this standard. For better dissemination of this information ARAI may publish this standard on their web site.

As per directions of MoRTH, it was proposed to have deliberation on the exemptions needed for armoured vehicles from certain CMVR requirements, due to their nature of use and construction. Ministry has been receiving request for granting exemptions on case to case basis and it was felt that the subject is required to be discussed in detail and a simpler process could be formulated to facilitate such exemptions comprehensively without having the need to review each case separately.

The AISC panel and the Automotive Industry Standards Committee responsible for preparation of this standard is given in Annex-1 and Annex-2 respectively.

**Specific Exemptions for Armoured Vehicles from the notified provisions
under the Central Motors Vehicles Rules, 1989**

1.0 SCOPE: Requirement of this standard shall be applicable to Armoured Vehicles of Category M and N, as defined in IS 14272:2011, as amended from time to time.

2.0 REFERENCE:

2.1 Regulation (EU) 2018/858: approval and market surveillance of motor vehicles and their trailers, and of systems, components and separate technical units intended for such vehicles, amending Regulations (EC) No 715/2007 and (EC) No 595/2009 and repealing Directive 2007/46/EC.

2.2 Central Motor Vehicle Rules (CMVR) 1989.

3.0 DEFINITIONS:

3.1 Armoured Vehicles means a special purpose vehicle of category M and N which is intended for the protection of conveyed persons or goods with anti-bullet armour plating.

4.0 CMVR REQUIREMENTS FOR ARMoured VEHICLES:

Armoured vehicles shall comply with the requirements of CMVR, as amended from time to time, for the purpose of type approval after taking into consideration the exemptions in Table 1.

Table 1

Provisions for consideration for CMVR requirements exemption of Armoured Vehicles.

| Item | Subject | M1 | M2 | M3 | N1 | N2 | N3 |
|-------------|--|-----------|-----------|-----------|-----------|-----------|-----------|
| 1 | Installation of tyres as per AIS-051. | A | A | A | A | A | A |
| 2 | Pneumatic tyres for motor vehicles and their trailers (Class C1) as per IS 15633:2005. | A | - | - | - | - | - |
| 3 | Pneumatic tyres for commercial vehicles and their trailers (Classes C2 and C3) as per IS 15636:2005. | - | A | A | A | A | A |
| 4 | Tyre rolling sound emissions, adhesion on wet | A | A | A | A | A | A |

| | | | | | | | |
|----|--|-----|-----|-----|-----|-----|-----|
| | surfaces and rolling resistance (Classes C1, C2 and C3) as per AIS-142. | | | | | | |
| 5 | Temporary-use spare unit, run-flat tyres/system as per AIS-110 and tyre pressure monitoring system as per AIS-154. | A+C | - | - | A+C | - | - |
| 6 | Protection of occupants in the event of a frontal collision as per AIS-096. | A | - | - | - | - | - |
| 7 | Requirement for the protection of occupants in the event of an offset frontal collision as per AIS-098. | B | - | - | - | - | - |
| 8 | Protection of occupants in the event of lateral collision as per AIS-099. | A | - | - | A | - | - |
| 9 | Pedestrian protection as per AIS-100. | A | - | - | A | - | - |
| 10 | Safety glazing materials as per IS 2553 (Part 2):1992 and their installation on vehicles. | A | A | A | A | A | A |
| 11 | Windscreen wiper and washer systems as per IS 15802:2008 or IS 15804:2008 as applicable. | A | D | D | D | D | D |
| 12 | Audible warning devices and signals as per IS 1884 or IS 15796:2008. | A+H | A+H | A+H | A+H | A+H | A+H |
| 13 | External Projection as per AIS-120 or IS 13942:1994 as applicable. | A | A | A | A | A | A |
| 14 | Installation of lighting and light-signaling devices on vehicles as per AIS-008 (Rev.1). | A+I | A+I | A+I | A+I | A+I | A+I |
| 15 | Forward field of vision as AIS-021. | J | | | | | |

| | | | | | | | |
|----|--|-----|-----|-----|-----|-----|-----|
| 16 | Strength of the superstructure of large passenger vehicles as per AIS-031. | - | A | A | - | - | - |
| 17 | Spray Suppression System as per AIS-013 (Rev.1). | - | - | - | A | A | A |
| 18 | Interior fittings AIS-047 or IS 15223:2002. | A | A | A | A | A | A |
| 19 | Interior Noise as per IS 12832:2010. | A | A | A | A | A | A |
| 20 | Bumpers as per IS 15901:2010. | A | - | - | - | - | - |
| 21 | Windscreen defrosting and demisting systems as per AIS-084 (Part 1) and (Part 2). | A | F | F | F | F | F |
| 22 | Front Under Run Protection Devices as per AIS-069. | - | - | - | - | A | A |
| 23 | Rear Under Run Protection Device as per IS:14812:2005. | - | A | A | - | A | A |
| 24 | Vehicle Lateral Protection Side SUPD as per IS:14682:2004. | - | A | A | - | A | A |
| 25 | Devices for indirect vision and their installation as per AIS-001 (Rev.1) and AIS-002 (Rev.1). | A+G | A+G | A+G | A+G | A+G | A+G |
| 26 | Safety belt anchorages as per IS 15140:2003, Isofix anchorages systems and Isofix top tether anchorages. | A | A | A | A | A | A |
| 27 | Seats, their anchorages and any head restraints AIS-023 or IS 15546:2005 as applicable. | E | - | - | E | E | E |
| 28 | Seats of large passenger vehicles as per AIS-023. | - | E | E | - | - | - |
| 29 | Child restraint system as per AIS-072. | N/A | N/A | N/A | N/A | N/A | N/A |

| | | | | | | | |
|----|---|-----|-----|-----|-----|-----|-----|
| 30 | Additional Safety Features for M1 Category of vehicles as per AIS-145. | N/A | - | - | - | - | - |
| 31 | Speed Governor-Speed Limiting Function as per AIS-018. | - | A | A | A | A | A |
| 32 | Towing device. | A | A | A | A | A | A |
| 33 | M2 and M3 vehicles as per AIS-052 (Rev. 1) and AIS-153 as applicable. | - | A | A | - | - | - |
| 34 | Truck Body Code as per AIS-093 (Rev.1). | - | - | - | - | A | A |
| 35 | Recyclability as per AIS-129. | A | A | A | A | A | A |
| 36 | Hydrogen system as per AIS-157. | A | A | A | A | A | A |
| 37 | Vehicle Alarm system and immobilizer for M1 & N1 cat. having GVW less than 2 ton (Other category if fitted) as per AIS-076. | K | K | K | K | K | K |
| 38 | Provision of vehicle location tracking device and emergency button as per AIS-140. | N/A | N/A | N/A | N/A | N/A | N/A |
| 39 | ESC requirement as per AIS-150. | K | K | K | K | K | K |
| 40 | Approval of Retro-Reflecting Devices as per AIS-057 (Rev.1). | A | A | A | A | A | A |
| 41 | Window retention & release system for Buses as per IS 13944:1994. | A | A | A | A | A | A |
| 42 | Constant Speed Fuel consumption test as per IS 11921:1993. | M | M | M | M | M | M |
| 43 | Vehicle reverse parking alert system as per AIS-145. | A | A | A | A | A | A |
| 44 | Emission. | L | L | L | L | L | L |

| | | | | | | | |
|----|---|-----|---|---|-----|---|---|
| 45 | Door latches and hinges. | A | A | A | A | A | A |
| 46 | Protection of driver against the steering mechanism in the event of impact. | N/A | - | - | N/A | - | - |

- (A) The Testing Agency may only grant exemption(s) if the manufacturer demonstrates that the vehicle cannot meet the requirements due to its special purpose. The exemptions granted are to be described on the vehicle type- approval certificate and the certificate of conformity.
- (B) If GVW of vehicle is more than 2.5 T then vehicle is exempted for this test.
- (C) Applies only where such vehicles are fitted with equipment covered by AIS-154.
- (D) Vehicles of categories other than M1 do not need to fully comply with CMVR but shall be fitted with a windscreen washing and wiping devices.
- (E) Application limited to seats designated for normal use where the vehicle is used on a public road. Seats that are not designated for use where the vehicle is used on the public road are to be clearly identified to users either by means of a pictogram or a sign with an appropriate text. The luggage retention requirements of UN Regulation No 17 do not apply.
- (F) Vehicles of categories other than M1 need not be fitted with a windscreen defrosting and demisting device. However based on the user demand such vehicles may be fitted with windscreen defrosting and demisting device as per the current provisions of CMV Rule 1989.
- (G) When the vehicle is fitted with rigid body structure instead of safety glazing at the rear end, fitment of interior mirror is not mandatory. In such case rear vision of vehicle shall be displayed with the help of rear-view camera. Then fitment of rear-view mirror is optional for M1 category vehicle as per clause No 15.2.2.10 of AIS 002 (Part-1) (Rev - 1).
- (H) Additional panic alarm devices are permitted.
- (I) Provided that all mandatory lighting devices are installed and that the geometric visibility is not affected.
- (J) The light transmission factor is at least 60 % and the 'A' pillar obstruction angle is not more than 10 degrees.
- (K) Applies only where vehicles are fitted with such equipment.
- (L) The vehicles used for Government purposes relating to the defence of the country which is registered under Section 60 of the Act and special purpose vehicles (armoured and other specialised vehicles used for operational purposes for the maintenance of law and order and internal security) shall meet minimum Bharat Stage III (BSIII) emission norms, in accordance with CMV Rule 115.
- (M) Test is mandatory & limit requirements are exempted.

| ANNEXURE 1 (See Introduction) | |
|---|-----------------------------|
| COMPOSITION OF AISC PANEL * | |
| Convener | |
| Mr. A. A. Badusha | ARAI |
| Members | Representing |
| Mr. K. C. Sharma | MORTH |
| Mr. K. S. Deswal | CRRF |
| Dr. A. V. Marathe | ARAI |
| Mr. Vikram Tandon | ARAI |
| Mr. Kamalesh Patil | ARAI |
| Mr. S. N. Dhole | CIRT |
| Ms. Shubhangi Dalvi | CIRT |
| Ms. Vijayanta Ahuja | ICAT |
| Mr. Mayak Sharma | ICAT |
| Mr. Muthukumar N. | Ashok Leyland Ltd. |
| Mr. Faustino V. | Ashok Leyland Ltd. |
| Mr. P. S. Gowrishankar | Tata Motors Ltd. |
| Mr. Sharad Bhole | Tata Motors Ltd. |
| Mr. Uday Salunkhe | Tata Motors Ltd. |
| Col. (Retd) Gurmeet Singh | Mahindra – Defense Services |
| Mr. Santosh Khollam | Mahindra – Defense Services |
| Mr. V. G. Kulkarni | Mahindra Truck & Bus Div. |
| Mr. Kulkarni Shailesh | Mahindra & Mahindra |
| Mr. Ram Mohan | DCM Shriram |
| Mr. Santosh Jadhav | VECV |
| Mr. Shrikant Joshi | Tata Advanced Systems Ltd. |
| Mr. Sujeetkumar Patel | ---- |

* At the time of approval of this Automotive Industry Standard (AIS)

ANNEXURE E
(See Introduction)

COMMITTEE COMPOSITION *
Automotive Industry Standards Committee

| | |
|--------------------------|--|
| Chairperson | |
| Dr. Reji Mathai | Director, The Automotive Research Association of India, Pune |
| Members | Representing |
| Representative from | Ministry of Road Transport and Highways (Dept. of Road Transport and Highways), New Delhi |
| Representative from | Ministry of Heavy Industries (Department of Heavy Industry), New Delhi |
| Shri S. M. Ahuja | Office of the Development Commissioner, MSME, Ministry of Micro, Small and Medium Enterprises, New Delhi |
| Shri Shrikant R. Marathe | Former Chairman, AISC |
| Shri R.R. Singh | Bureau of Indian Standards, New Delhi |
| Director | Central Institute of Road Transport, Pune |
| Director | Global Automotive Research Centre |
| Director | International Centre for Automotive Technology, Manesar |
| Director | Indian Institute of Petroleum, Dehra Dun |
| Director | Vehicles Research and Development Establishment, Ahmednagar |
| Director | Indian Rubber Manufacturers Research Association |
| Representatives from | Society of Indian Automobile Manufacturers |
| Shri R. P. Vasudevan | Tractor Manufacturers Association, New Delhi |
| Shri Uday Harite | Automotive Components Manufacturers Association of India, New Delhi |
| Shri K. V. Krishnamurthy | Indian Construction Equipment Manufacturers' Association (ICEMA), New Delhi |
| Member Secretary | |
| Shri Vikram Tandon | The Automotive Research Association of India, Pune |

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