

Table 3 of AIS-007 (Revision 5)

TECHNICAL SPECIFICATION – FOUR WHEELERS AND ABOVE PART B – VEHICLE OVERALL		
Clause No.	Description	
B1.0	Vehicle Dimensions :	
B1.1	Length mm	
B1.1.1	Total length (mm) (for articulated/combination vehicles)	
B1.2	Width mm	
B1.3	Height (Unladen) (mm)	
B1.4	Wheel base (mm)	
B1.4.1	Axle spacing in case of multi axle vehicles.	
B1.5	Wheel track (mm)	
B1.5.1	Front	
B1.5.2	Rear	
B1.5.3	Other axles (for articulated/combination vehicles)	
B1.6	Body overhang (mm)	
B1.6.1	Front end	
B1.6.2	Rear end	
B1.7	Frame overhang mm (in case of vehicles without complete body)	
B1.7.1	Front end	
B1.7.2	Rear end	
B1.8	Inner dimensions of room or platform (For goods carriage vehicles only)	
B1.8.1	Length	
B1.8.2	Width	

Manufacturer	Sheet No :	Test Agency :
	Document No:	
Name: Designation :	Date :	Name: Designation :

Table 3 of AIS-007 (Revision 5)

B1.8.3	Height					
B1.9	Lateral projection					
B2.0	Weights :	Base	Variant 1	Variant 2	V a r i a n t 3	Variant 4
B2.1	Vehicle kerb weight kg					
B2.1.1	Front axle 1					
B2.1.2	Front axle 2					
B2.1.3	Rear Axle					
B2.1.4	Trailer axle (applicable for articulated/combination vehicles)					
B2.1.5	Total					
B2.2	Gross vehicle weight kg (for rigid vehicles) (Front, Rear & Total)					
B2.2.1	Maximum permissible axle weights (kg)					
B2.2.2	Front axle					
B2.2.3	Rear axle					
B2.2.4	Other axle					
B2.3	Gross combination weight kg (applicable for articulated / Tractor Trailer combination vehicles)					
B2.3.1	Front axle					
B2.3.2	Rear axle					

Manufacturer	Sheet No :	Test Agency :
	Document No:	
Name: Designation :	Date :	Name: Designation :

Table 3 of AIS-007 (Revision 5)

B2.3.3	Trailer axle / other axles			
B 2.3.4	If applicable, maximum mass of trailer which may be coupled			
B 2.3.5	Unbraked trailer			
B2.4	Reference mass (for vehicles with GVW less than or equal to 3.5 ton) (kg.)			
B2.5	Seating capacity			
B2.5.1	Maximum (Including driver) for completely built vehicles			
B3.0	Tyres :			
B3.1	Make			
B3.1.1	Brand(s) name(s) and/or Trade description(s)	This information shall be requested only after implementation of AIS-142		
B3.1.2	Tyres - Rolling Sound Emissions, Adhesion on Wet Surfaces, Rolling Resistance as per AIS:142	Compliance (Yes / No)		
B3.1.3	Tyre rolling Resistance			
B3.1.4	Tyre Class (C1 / C2 / C3) as per AIS:142	Front	Rear	
B3.1.5	Category of use (Normal / Special / Snow/Severe Snow)			
B3.1.7	Tyre Tread Pattern along with Drawing			
B3.2	No. and arrangement of wheels			
B3.2.1	Front			
B3.2.2	Rear			
B3.2.3	Spare wheel			

Manufacturer	Sheet No :	Test Agency :
	Document No:	
Name: Designation :	Date :	Name: Designation :

Table 3 of AIS-007 (Revision 5)

B3.2.4	Others (for articulated/combination vehicles)	
B3.3	Tyre type (Radial/cross ply), (with Tube / Tube less), (Normal / Reinforced), size designation including ply rating, speed rating, Load rating or Load index. Use symbols as per IS 15633 / IS 15636 as may be applicable.	
B3.3.1	Front wheel	
B3.3.2	Rear wheel	
B3.3.3	Spare wheel (Other than temporary use spare wheel)	
B3.3.4	Other (for articulated/combination vehicles)	
B 3.4	Rolling Radius	
B 3.4.1	Static rolling radius (only applicable for M2, M3, N and T category of vehicles.)	
B 3.4.2	Dynamic rolling radius, mm, as per IS 15633 / IS 15636	
B3.5	Inflation pressure – Unladen (kg/cm ² / kPa / psi)	
B3.5.1	Front	
B3.5.2	Rear	
B3.5.3	Other	
B3.6	Inflation pressure – Laden (kg/cm ² / kPa / psi)	
B3.6.1	Front	
B3.6.2	Rear	
B3.6.3	Other	
B3.7	Tyre Pressure Monitoring System (TPMS) as per AIS-154/ Run Flat Warning System as applicable for Run-Flat tyres - as per AIS-110 (If Provided)	
B3.7.1	Make (For direct TPMS)	

Manufacturer	Sheet No :	Test Agency :
	Document No:	
Name: Designation :	Date :	Name: Designation :

Table 3 of AIS-007 (Revision 5)

B 3.7.2	Brief Description of the system (For indirect TPMS)	
B 3.7.3	Sensor Part No. (For direct TPMS)	
B3.8	Temporary Spare Wheel / RFT- as per AIS-110 (If Provided)	
B3.8.1	Type as per AIS-110	
B3.8.2	Make	
B3.8.3	Size	
B3.8.4	Load and speed rating	
B3.8.5	Recommended max speed in Unladen condition	
B3.8.6	Recommended max speed Laden condition	
B4.0	Transmission :	
B4.1	Type (Manual/Automatic/semi-automatic) (Note: If automatic give all pertinent data)	
B4.2	Clutch Type (wet/Dry/Single plate/ Multi plate / Hydraulic)	
B4.3	Gear box	
B4.3.1	Type	
B4.3.2	Model name (if any)	
B4.3.3	Gear shifting control system (Sketch showing gear shifting arrangement)	
B4.3.4	No. of gears	
B4.4	Stall ratio of torque converter	
B4.5	Sub transmission	
B4.5.1	Type	
B4.5.2	Control system	

Manufacturer	Sheet No :	Test Agency :
	Document No:	
Name: Designation :	Date :	Name: Designation :

Table 3 of AIS-007 (Revision 5)

B4.5.3	Gear High Low	ratio	
B4.6	Final Drive		
	Front / Rear / Both		
B4.6.1	Type		
B4.6.2	Reduction ratio		
B4.6.3	Differential type		
B4.6.4	Final Drive ratio		
B4.7	Gear ratio Gear box ratio Overall ratio		
	1 st		
	2 nd		
	3 rd		
	4 th		
	5 th		
	6 th		
	Over drive		
	Reverse		
B4.8	Hydraulic transmission		
B4.8.1	Type		
B5.0	Number of axles :		
	Steered	Non-steered	

Manufacturer	Sheet No :	Test Agency :
	Document No:	
Name: Designation :	Date :	Name: Designation :

Table 3 of AIS-007 (Revision 5)

	Driven Non-driven	
B6.0	Front axle :	
B6.1	Type (Single / Multi / Retractable)	
B6.2	Toe-in / Toe out (mm)	
B6.3	Camber angle	
B6.4	Caster angle	
B6.5	King pin angle	
B7.0	Rear axle :	
B7.1	Type (Single / Tandem / Tridem / Multi/ Retractable)	
B7.2	Toe-in/ Toe out mm, if applicable	
B7.3	Camber angle, if applicable	
B7.4	Caster angle, if applicable	
B7.5	King pin angle, if applicable	
B8.0	Steering system :	
B8.1	Make	
B8.1.1	Type (Manual / Power assisted – Hydraulic / Power assisted – Electric / Other)	
B8.2	Steering wheel	
B8.2.1	Identification Mark / Part No./Drawing No.	
B8.2.2	Position (center/offset)	
B8.2.3	Outside dia. (mm)	
B8.2.4	Steering column	

Manufacturer	Sheet No :	Test Agency :
	Document No:	
Name:	Date :	Name:
Designation :		Designation :

Table 3 of AIS-007 (Revision 5)

B8.2.4.1	Make	
B8.2.4.2	Type / Model	
B8.2.4.3	Detailed drawing with material specifications	
B 8.2.4.4	Air Bag – Part No/ID No/Drawing No, Make	
B 8.2.4.5	Air Bag deployment time as per IS 11939/AIS 96/AIS 98 for steering impact	
B8.2.5	Intermediate shaft	
B8.2.5.1	Make	
B8.2.5.2	Type / Model	
B8.2.5.3	Detailed drawing with material specifications	
B8.3	Maximum No. of rotation of steering wheel from lock to lock	
B8.4	Details of single / multiple combinations to be given in the form of an Annexure with reference to IS 11939:1996	
B8.5	Detailed drawing of the mounting arrangement of Steering control assembly showing vertical / tilt / actual angle.	
B8.6	Offset of the steering column with respect to the seat	
B8.7	Steering Gear	
B8.7.1	Type of steering gear (Re-circulating ball / Worm & Roller / Rack & Pinion / Others)	
B8.7.2	Make	
B8.7.3	Steering gear ratio	
B8.8	Wheel lock angle (deg.)	
	Inner	Outer
B8.8.1	Left	

Manufacturer	Sheet No :	Test Agency :
	Document No:	
Name:	Date :	Name:
Designation :		Designation :

Table 3 of AIS-007 (Revision 5)

B8.8.2	Right	
B8.9	Power Assistance	
B8.9.1	Type of assistance	
B8.9.2	Make	
B8.9.3	Identification No./ Part No.	
B8.9.4	Pressure setting (kg/cm ² / bar / kPa)	
B8.10	Min turning circle diameter (mm) (as per IS 12222)	
B8.11	Min. turning circle clearance diameter (mm)	
B8.12	Coordinates of point defining test turning circle. (Applicable in case of vehicles without complete body which does not cover this point)	
B9.0	Clearance (Requirement as per AIS-053, If applicable):	
B9.1	Minimum ground clearance(For other than M1)	
B9.2	Road clearance from floor (for buses)	
B9.3	Approach angle	
B9.4	Departure angle	
B9.5	Ramp-over angle	
B9.6	Minimum Ground Clearance as per IS 9435:2004	
B10.0	Max. stable inclination (For buses as per AIS-031) :	
B10.1	Left	
B10.2	Right	
B11.0	Suspension :	

Manufacturer	Sheet No :	Test Agency :
	Document No:	
Name: Designation :	Date :	Name: Designation :

Table 3 of AIS-007 (Revision 5)

B11.1	Type and description (Leaf / Coil / Air / Semi-pneumatic / Torsion bar)	
B11.1.1	Front	
B11.1.2	Rear	
B11.2	Make	
B11.2.1	Front	
B11.2.2	Rear	
B11.3	Type of spring	
B11.4	If leaf spring	
B11.4.1	Main spring	
B11.4.1.1	Stack height, at center	
B11.4.1.2	Width at the center point / stack point	
B11.4.1.3	Flat length	
B11.4.1.4	Free camber	

B11.4.1.5	No. of leaves		
	Left	Right	
	No. of leaves		
	No. of spacers		
B11.4.2	Auxiliary Spring		

Manufacturer	Sheet No :	Test Agency :
	Document No:	
Name:	Date :	Name:
Designation :		Designation :

Table 3 of AIS-007 (Revision 5)

B11.4.2.1	Stack height at, at center		
B11.4.2.2	Width at the center point / stack point		
B11.4.2.3	Flat length		
B11.4.2.4	Free camber		
B11.4.2.5	No. of leaves		
	Left	Right	
	No. of leaves		
	No. of spacers		
B12.0	Suspension- Shock absorber :		
B12.1	Type and Number		
B12.1.1	Front		
B12.1.2	Rear		
B13.0	Suspension- Stabilizer :		
B13.1	Front		
B13.2	Rear		
B14.0	Chassis frame :		
B14.1	Type		
B15.0	Displays and tell tales : Indicate the type and if the tell tales provided and whether they are symbols or letter. (AIS-071 part 1 and 2 or corresponding Indian Standard))		
B15.1	Head lamp – upper / lower control		
B15.2	Ignition cut-off		

Manufacturer	Sheet No :	Test Agency :
	Document No:	
Name: Designation :	Date :	Name: Designation :

Table 3 of AIS-007 (Revision 5)

B15.3	Turn signal	
B15.4	Fuel Gauge	
B15.5	Engine coolant temperature	
B15.6	Engine low oil pressure	
B15.7	High beam indicator	
B15.8	Electrical charge indicator (Battery charge)	
B15.9	Brake failure	
B15.10	Front fog light	
B15.11	Rear fog light	
B15.12	Horn	
B 15.13	ABS	
B 15.14	Seat Belt Reminder	
B 15.15	Others (such as, Airbag, HVAC, Content gauge, LPG / CNG changeover switch etc.,)	
B16.0	Hood latch :	
B16.1	Make	
B16.2	Type	
B16.3	Identification No. / Part No.	
B17.0	Wheel guard (IS 13943 for passenger cars)	
B17.1	Dimension C	
B17.2	Dimension p	
B17.3	Dimension q	

Manufacturer	Sheet No :	Test Agency :
	Document No:	
Name:	Date :	Name:
Designation :		Designation :

Table 3 of AIS-007 (Revision 5)

B18.0	External Projections	
B18.1	Ornaments	
B18.2	Projection for head light	
B18.3	Radiator grills (Applicable of on external surface)	
B18.3.1	Gap between individual elements	
B 18.3.2	Radius of curvature of individual element	
B18.4	Body Panel (In case of radius of curvature of folds in body panels are less than 2.5mm the scaled drawing of folds contour and H value as per IS 13942 is required to be submitted) & relevant drawings as per IS 13942 / AIS 120	
B18.5	Radius of curvature of lateral Rain/Air deflector	
B19.0	Speedometer:	
B19.1	Type	
B19.2	Make, and Identification No. / Part No./ Drawing No.	
B19.3	Range	
B19.4	Major marking	
B19.5	Minor marking	
B19.6	Speedometer ratio	
B19.7	Ratio of Speedo drive	
B20.0	Odometer : (only in case of CNG buses)	
B20.1	Make	
B20.2	Type and Identification No. / Part No.	
B21.0	Safety belt anchorages – specifications	

Manufacturer	Sheet No :	Test Agency :
	Document No:	
Name:	Date :	Name:
Designation :		Designation :

Table 3 of AIS-007 (Revision 5)

B21.1	Design of the type of belts and retractors authorized for fit to the anchorages with which vehicle is equipped :					
B21.2	Section views of all the seat belt anchorages.					
	Anchorage Position				Anchorage on (*)	
					Vehicle Structure	Vehicle Structure
	Front	Right-hand seat	Lower anchorage	Outboard Inboard		
			Upper anchorage			
		Middle seat	Lower anchorage	Right Left		
			Lower anchorage			
		Left-hand seat	Lower anchorage	Outboard Inboard		
			Upper anchorage			
	Rear					
B21.3	Reference point on body used for vehicle and seat co-ordinate measurement, X, Y, Z co-ordinates of all the seat belt anchorage points.					
B21.4	Weight of seats					
B21.5	C.G. of seats (Sketch, showing the C.G. location form reference point or from seat anchorage point).					
B22.0	Seats, their anchorages and head restraints					
B22.1	Seats, their anchorages and head restraints-specifications for M1 category.					
B22.1.1	Description of seats					

Manufacturer	Sheet No :	Test Agency :
	Document No:	
Name: Designation :	Date :	Name: Designation :

Table 3 of AIS-007 (Revision 5)

B22.1.1.1	Make	
B22.1.1.2	Number of seats fitted or capable of being fitted with head restraints, adjustable or not adjustable.	
B22.1.1.3	Description of the adjustment, displacement and locking systems of the seat or of its parts and a description of occupant protection system against displacement of luggage.	
B22.1.2	Description of seat anchorage	
B22.1.2.1	Longitudinal / Vertical (If applicable) position of the seats during the tests.	
B22.1.2.2	Drawings, diagrams and plans of the seats, their anchorages on the vehicle, the floor layout, the adjustment and displacement system of the seats and their parts, and their locking devices and of additional occupant protection system against displacement of luggage.	
B22.1.2.3	In the case of seats fitted with head restraints, the head restraint shall be shown on all drawings, diagrams and photographs.	
B22.1.3	Seat Drawings showing 'H point co-ordinates with respect to reference point on body shell	
B22.1.4	All designed positions i.e. Slider, Height Adjuster, Manikin settings, Torso Angle etc.	
B22.1.5	Seat anchorage co-ordinates with respect to reference point on body shell to be shown on floor drawing.	

B22.1.6	Seat Identification No. / Part No/Drawing Number.:			
	Description	Make	ID Number/ Part Number/Drawing number (Seat Manufacturer/ Vehicle Manufacturer)	Weight (kg)

Manufacturer	Sheet No :	Test Agency :
	Document No:	
Name:	Date :	Name:
Designation :		Designation :

Table 3 of AIS-007 (Revision 5)

B22.2	Seats, their anchorages and head restrains (for passenger vehicles of categories other than M1 and goods vehicles of category N).			
B22.2.1	Make			
B22.2.2	Brief description and drawings of the seat type, its attachment fittings and its adjustment, displacement and locking systems including the minimum distance between fitting points.			
B22.2.3	Position and arrangement of seats including seat layout.			
B22.2.4	Seats if any which incorporate a safety belt anchorage.			
B22.2.5	Driver Seat and Front Passenger Seat drawings, their anchorages on the vehicle, the floor layout, the adjustment and displacement system of the seats and their parts, and their locking devices, drawings showing 'H point co-ordinates and seat anchorage co-ordinates with respect to reference point on vehicle			
B22.2.6	Seat Identification No. / Part No/Drawing Number.:			
	Description	Make	ID Number/ Number/Drawing number Manufacturer/ Manufacturer)	Part (Seat Vehicle Weight (kg)
B23.0	Rear Under run Protective device			
B23.1	Height of lower edge of the device from the ground (mm).			
B23.2	Width of the device (mm).			
B23.3	Drawing of the rear under-run protective device with dimensions , RUPD cross section, material details etc.			
B23.4	Installation drawing showing rear extremity of vehicle, chassis rear overhang, chassis cross section details, tyre details (size, make, unladen pressure) etc., distance between tyre & RUPD RH & LH, frame rear width, P1, P2 points.			
B23.5	RUPD Material with specific grade			

Manufacturer	Sheet No :	Test Agency :
	Document No:	
Name:	Date :	Name:
Designation :		Designation :

Table 3 of AIS-007 (Revision 5)

B24.0	Lateral Protection (Side Guards)	
B24.1	Height of the lower edge of the Side Guard from the ground (mm).	
B24.2	Drawing of the lateral protection device with dimensions. LPD cross section, material details with grade etc.	
B24.3	Distance between tyre & LPD front, rear, RH & LH, distance between supports of LPD, distance between device & load body.	
B24.4	Material (Metal / Fiber / etc.)	
B25.0	Controls - Specify method of operation, hand operated - left / right, foot operated - left / right Ref. SS 12.1 or corresponding Indian Standard).	
B25.1	Ignition	
B25.2	Horn	
B25.3	Lamps (Head lamp, Tail lamp, Parking lamp and Number plate lamp)	
B25.4	Turn signal	
B25.5	Transmission shift lever	
B25.6	Wind shield wiper	
B25.7	High beam/low beam	
B25.8	Parking brake	
B25.9	Master switch for electrical	
B25.10	Hazard warning signal	
B25.11	Service Brake	
B25.12	Accelerator Pedal (Floor hinged/hanging type)	
B25.13	Others	
B26.0	Safety glass	

Manufacturer	Sheet No :	Test Agency :
	Document No:	
Name: Designation :	Date :	Name: Designation :

Table 3 of AIS-007 (Revision 5)

B26.1	Front wind shield (laminated)	
B26.1.1	Make	
B26.1.1.1	BIS License number	
B26.1.2	Identification: TAC No. / BIS License No. / E- Marking	
B26.1.3	Type (flat/curved, clear/tinted)	
B26.1.4	Thickness (mm)	
B26.1.5	Rake Angle	
B26.1.6	Method of fixing (for approval of Demisting / Defrosting system)	
B26.2	Side Windows (Left & Right)	
B26.2.1	Make	
B26.2.1.1	BIS License Number	
B26.2.2	Identification: TAC No. / BIS License No. / E- Marking	
B26.2.3	Type (Toughened / Laminated)	
B26.2.4	Thickness mm	
B26.3	Rear Window	
B26.3.1	Make	
B26.3.1.1	BIS License Number	
B26.3.2	Identification: TAC No. / BIS License No. / E- Marking	
B26.3.3	Type (Toughened / Laminated)	
B26.3.4	Thickness mm	
B26.3.5	Radius of curvature (if curved)	

Manufacturer	Sheet No :	Test Agency :
	Document No:	
Name:	Date :	Name:
Designation :		Designation :

Table 3 of AIS-007 (Revision 5)

B27.0	Rear view mirror : [As applicable to the category of vehicle]	
B27.1	Interior mirror (Class-I)	
B27.1.1	Make	
B27.1.2	Identification: TAC No. / BIS License No. / E- Marking	
B27.1.3	Area of mirror and radius of curvature of reflecting surface	
B27.2	Main mirror (Large) (Class-II)	
B27.2.1	Make	
B27.2.2	Identification: TAC No. / BIS License No. / E- Marking	
B27.2.3	Area and radius of curvature of the mirror glass reflecting surface	
B27.3	Main mirror (Small) (Class-III)	
B27.3.1	Make	
B27.3.2	Identification: TAC No. / BIS License No. / E- Marking	
B27.3.3	Area and radius of curvature of the mirror glass reflecting surface	
B27.4	Wide angle mirror (Class-IV)	
B27.4.1	Make	
B27.4.2	Identification: TAC No. / BIS License No. / E- Marking	
B27.4.3	Area and radius of curvature of the mirror glass reflecting surface	
B27.5	Close proximity mirror (Class-V)	
B27.5.1	Make	
B27.5.2	Identification: TAC No. / BIS License No. / E- Marking	
B27.5.3	Area and radius of curvature of the mirror glass reflecting surface	

Manufacturer	Sheet No :	Test Agency :
	Document No:	
Name: Designation :	Date :	Name: Designation :

Table 3 of AIS-007 (Revision 5)

B27.6	Front mirror (Class-VI)	
B27.6.1	Make	
B27.6.2	Identification: TAC No. / BIS License No. / E- Marking	
B27.6.3	Area and radius of curvature of the mirror glass reflecting surface	
B27.7	Devices for indirect vision other than mirrors:	
B27.7.1	Make	
B27.7.2	Identification: TAC No. / BIS License No. / E- Marking	
B27.7.3	Area and radius of curvature of the mirror glass reflecting surface	
B27.8	Brief drawing showing installation dimensions of all mirrors provided on the vehicle and drivers ocular point angle with RH mirror	
B28.0	Information on safety belt / restraint system :	
B28.1	Safety belt	
B28.1.1	Make of seat belt	
B28.1.2	Type and configuration	
B28.1.3	Identification No. / Part No.	
B28.2	Restraint system	
B28.2.1	Make	
B28.2.2	Type and configuration	
B28.2.3	Identification No. / Part No.	
B28.2.4	Drawings of the relevant parts of the vehicle structure and any seat anchorage reinforcements	
B28.2.5	Drawings of the seat, showing its structure, adjustment system and fixing components, with an indication of the materials used.	
B28.2.6	Drawing or photograph of the restraint system as installed.	

Manufacturer	Sheet No :	Test Agency :
	Document No:	
Name: Designation :	Date :	Name: Designation :

Table 3 of AIS-007 (Revision 5)

B28.2.7	Drawing showing the installation of belts on the vehicle.					
B28.3	Safety belts and / or other restraint systems :					
B28.3.1	Number and position of safety belts and restraint systems and seats on which they can be used					
	Row of Seat	Location*	Type of seat belt	Variant (if applicable)	Belt adjustment device for height (indicate yes/no/optional)	
	First row of seats	L				
		C				
		R				
	Second row of seats	L				
		C				
		R				
	The table may be extended as necessary for vehicles with more than two rows of seats there are more than three seats across the width of the vehicle. *(L = left-hand side, R= right-hand side, C = Centre)					
B28.4	Emergency exit					
B28.4.1	Position					
B28.4.2	Size					
B29.0	Fuel tank :					
B29.1	Make					
B29.2	Material (Metallic / Plastic etc.)					
B29.3	Nominal thickness mm					
B29.4	Capacity, litre					
B29.5	Detailed drawing of the fuel tank assembly with material specifications					

Manufacturer	Sheet No :	Test Agency :
	Document No:	
Name:	Date :	Name:
Designation :		Designation :

Table 3 of AIS-007 (Revision 5)

B29.6	Detailed drawing indicating the position / location of the fuel tank (s) in the vehicle.	
B29.7	Identification No. / Part No.	
B 30.0	Wheel Rim	
B 30.1	Front	
B 30.1.1	Make	
B 30.1.1.1	BIS license Number	
B 30.1.2	Part number of wheelrim supplier	
B 30.1.3	Size	
B 30.1.4	Type (Alloy / Sheet metal / spoke)	
B 30.2	Rear	
B 30.2.1	Make	
B 30.2.1.1	BIS license Number	
B 30.2.2	Part number of wheelrim supplier	
B 30.2.3	Size	
B 30.2.3	Type (Alloy / Sheet metal / spoke)	
B 30.3	Other	
B 30.3.1	Make	
B 30.3.1.1	BIS license Number	
B 30.3.2	Part number of wheelrim supplier	
B 30.3.3	Size	
B 30.3.4	Type (Alloy / Sheet metal / spoke)	

Manufacturer	Sheet No :	Test Agency :
	Document No:	
Name:	Date :	Name:
Designation :		Designation :

Table 3 of AIS-007 (Revision 5)

B31.1.1	No. of doors	
B31.1.2	Position and type of door	
B31.1.3	Detailed drawing of the door including location of the door strengthening bars, Dimensions of door reinforcements from door lower edge, cross section of the bars, material specification of the bar and door sheet metal, number of reinforcements and details of welding / bolting etc.,(for side door impact test)	
B31.2	Door lock / latch	
B31.2.1	Front	
B31.2.1.1	Make	
B31.2.1.2	Identification No. / Part No.	
B31.2.2	Rear	
B31.2.2.1	Make	
B31.2.2.2	Identification No. / Part No.	
B31.3	Door hinge	
B31.3.1	Front	
B31.3.1.1	Make	
B31.3.1.2	Identification No. / Part No.	
B31.3.2	Rear	
B31.3.2.1	Make	
B31.3.2.2	Identification No. / Part No.	
B32.0	Wheel Fastener(s) and Hub cap :	
B32.1	Wheel Nut (s) / Bolt (s)	
B32.1.1	Make	

Manufacturer	Sheet No :	Test Agency :
	Document No:	
Name: Designation :	Date :	Name: Designation :

Table 3 of AIS-007 (Revision 5)

B32.1.2	Size	
B32.1.3	No. per wheel	
B32.1.4	Tightening torque on vehicle (recommended by Vehicle Manufacturer)	
B32.1.5	Detailed dimensional drawing along with material specifications	
B32.2	Wheel cap (if provided)	
B32.2.1	Detailed dimensional drawing along with press fit diameter as applicable	
B32.3	Hub cap	
B32.3.1	Make	
B32.3.2	Method of fitment (Press/bolted/others)	
B32.3.3	Brief dimensional drawing along with press fit diameter as applicable	
B33.0	Towing devices :	
B33.1	Type	
B33.2	Make	
B33.3	Capacity	
B34.0	Coupling devices (for trailers) :	
B34.1	Make	
B34.2	Identification mark	
B34.3	Type of coupling device for mechanical	
B34.4	Type of coupling device for electrical	
B34.5	Type of coupling device for brake	
B34.6	Dia. Of king pin (mm)	

Manufacturer	Sheet No :	Test Agency :
	Document No:	
Name: Designation :	Date :	Name: Designation :

Table 3 of AIS-007 (Revision 5)

B35.0	Spray Suppression System	
B35.1	Make	
B35.2	Type (Water separator / Pulveriser)	
B35.3	Identification No. / Part	
B35.4	Size	
B35.5	Detailed engineering drawing as specified in AIS-013 or photographs showing the mounting details with dimensions.	
B36.0	Interior Fittings as per IS 15223 or AIS-047, as applicable	
B36.1	Instrument Panel (Dash Board)	
B36.2	Make	
B36.3	Identification No. / Part No/Drawing No.	
B36.4	Drawing showing the mounting details, overall size and all control switches with dimensions	
B36.5	Additional details for interior fitting tests to be given (if test is already conducted, this information need not be submitted).	
B36.5.1	Drawing of Instrument Panel Variants (With / without Airbag, Music system, AC)	
B36.5.2	Material used for instrument Panel	
B36.5.3	Drawings	
B36.5.3.1	Instrument Panel mounting (With hardware details)	
B36.5.3.2	‘H’ point co-ordinates for each seating position	
B36.5.3.3	Cross sectional drawings for each projection more than 3.2	
B36.5.3.4	Cross sectional Drawing of Gear shift lever	
B36.5.3.5	Drawing of Grab handle with cross section	

Manufacturer	Sheet No :	Test Agency :
	Document No:	
Name:	Date :	Name:
Designation :		Designation :

Table 3 of AIS-007 (Revision 5)

B36.5.3.6	Drawing of Sun visor with details of metal wire used	
B36.5.3.7	Drawing of lamp assembly mounted at roof	
B36.5.3.8	Drawing of Cigarette lighter/ charging point	
B36.5.3.9	Any other fitment	
B37.0	Bumper (for M1 category vehicle) :	
B37.1	Make	
B37.2	Identification No. / Part No./Drawing No.	
B37.3	Installation drawing showing location of Bumper in the front and rear, fitment of the Bumper, dimensions of Bumper, mounting points, details of mounting fasteners and additional fitments on it.	
B37.4	Material of Bumper with details (metallic / non-metallic)	
B37.5	Test method to be adopted by the test agency (Pendulum impact test, Component level vibration test, or Vehicle level four poster test)	
B 38.0	Flammability requirements of interior materials as per IS 15061, as applicable.	
B 38.1	Seat Upholstery	
B 38.1.1	Make	
B 38.1.2	Material and Composition	
B 38.1.3	Identification No. / Part No./Drawing No.	
B 38.2	Roof lining	
B 38.2.1	Make	
B 38.2.2	Material and Composition	
B 38.2.3	Identification No. / Part No./Drawing No.	
B 38.3	Floor lining	

Manufacturer	Sheet No :	Test Agency :
	Document No:	
Name: Designation :	Date :	Name: Designation :

Table 3 of AIS-007 (Revision 5)

B 38.3.1	Make	
B 38.3.2	Material and Composition	
B 38.3.3	Identification No. / Part No./Drawing No.	
B 38.4	Side wall lining	
B 38.4.1	Make.	
B 38.4.2	Material and Composition	
B 38.4.3	Identification No. / Part No./Drawing No.	
B 38.5	Rear wall lining	
B 38.5.1	Make	
B 38.5.2	Material and Composition	
B 38.5.3	Identification No. / Part No./Drawing No.	
B 38.6	Interior lining of luggage racks	
B 38.6.1	Make	
B 38.6.2	Material and Composition	
B 38.6.3	Identification No. / Part No./Drawing No.	
B 38.7	Heating and ventilation pipe	
B 38.7.1	Make	
B 38.7.2	Material and Composition	
B 38.7.3	Identification No. / Part No./Drawing No.	
B 38.8	Curtain / Blinds / Hanging material	
B 38.8.1	Make	
B 38.8.2	Material and Composition	
B 38.8.3	Identification No. / Part No./Drawing No.	

Manufacturer	Sheet No :	Test Agency :
	Document No:	
Name: Designation :	Date :	Name: Designation :

Table 3 of AIS-007 (Revision 5)

B 38.9	Material for Luminaries	
B 38.9.1	Make	
B 38.9.2	Material and Composition	
B 38.9.3	Identification No. / Part No./Drawing No.	
B 38.10	Separation wall	
B 38.10.1	Make	
B 38.10.2	Material and Composition	
B 38.10.3	Identification No. / Part No./Drawing No.	
B39.0	Hand holds (as per AIS-046)	
B39.1	No. of hand holds	
B39.2	Details and dimension of hand hold indicating length, clearance between the hand hold and body and cross sectional area. Of every hand hold (if required , details may be provided as a separate Annexure)	
B39.2.1	Make	
B39.2.2	Identification No. / Part No./Drawing No.	
B39.2.3	Type (Grab handle / Strap / Hand Rail)	
B39.2.4	Material	
B39.2.5	Size	
B39.3	Installation drawing of hand hold, showing location of mounting for every seating position, passengers details of mounting fasteners and additional fitments on it	
B 40.0	Arrangement of foot controls (For M1 category as per AIS-035)	
B 40.1	Distance between the contour points of the orthogonal projections on to plane “P” of the accelerator pedal and service brake pedal bearing surfaces, “E” in mm.	

Manufacturer	Sheet No :	Test Agency :
	Document No:	
Name: Designation :	Date :	Name: Designation :

Table 3 of AIS-007 (Revision 5)

B 40.2	Distance between the projection of the service brake pedal on to the reference plane “P”, to the right, “H” in mm.	
B 40.3	Distance between the projection of the service brake pedal on to the reference plane “P”, to the left, “J” in mm.	
B 40.4	Drawing showing the parts and arrangement of the foot controls along with dimensions “E”, “H” and “J”	
B41.0	Statutory Plates – Vehicle Identification Number (As per AIS-065)	
B41.1	Drawings and/or photographs of the locations of the statutory plates and inscriptions and of the vehicle identification number	
B41.2	Drawings and / or photographs of the official part of the plates and inscriptions (completed example with dimensions)	
B41.3	Drawings and / or photographs of the Body Builder’s Plates and its location on the vehicle	
B41.4	World Manufacturer’s Identifier (WMI) code and its location in Vehicle Identification Number (VIN)	
B41.5	Location of Vehicle Descriptor Section (VDS) in Vehicle Identification Number (VIN)	
B41.6	Location of Vehicle Indicator Section (VIS) in Vehicle Identification Number (VIN)	
B41.7	Height of characters in VIN (mm)	
B42.0	Window retention and release for Buses as per IS 13944	
B42.1	Type (Toughened / Laminated) of the window glass and its Thickness	
B42.1.1	Method of Window Fixing (sliding or sealed or opening outside etc.)	
B42.1.2	Brief description of the Provision for emergency exit provided in case of sealed windows	
B42.1.3	Name of the Window Manufacturer	
B42.2	Drawing (including Drawing no. & Revision no.) including Plan view, Elevation, LH, RH view of Vehicle showing the dimensions of all windows, seating layout and location of emergency exit.	
B42.3	Detailed Brief dimensional drawing of emergency exit indicating its location(s)	

Manufacturer	Sheet No :	Test Agency :
	Document No:	
Name: Designation :	Date :	Name: Designation :

Table 3 of AIS-007 (Revision 5)

B42.4	Number of passenger compartment doors provided in addition to driver's door.	
B42.5	Dimensions Emergency exit identification	
B42.5.1	Number(s) and Dimensions of Roof Exit (if provided)	
B42.6	Dimensions of the instructions describing each motion necessary to unlatch and open the exit are provided from the release mechanism.	
B 43.0	Front Under run Protective devices as per AIS-069	
B 43.1	Drawing of the vehicle parts relevant to the front under run protection, i.e., drawing of the vehicle and/or chassis with position and mounting and/or fitting of the front under run protective device. Mentioning material details of FUPD & mounting hardware. If the under run protection is by no special device, the drawing should clearly show as how the required dimensions are met.	
B 43.2	In the case of special device, full description and/or drawing of the front under run protection (including mountings and fittings) & material details, distance of P1 & P2 points from center & tyres.	
B43.3	Installation drawing of the FUPD with dimensions like cross section, distance between tyre & FUPD RH side & LH side, distance between front extremity & FUPD, width of FUPD, ID marking of FUPD, Width measured from the outermost points of access steps to driver cabin etc.	
B 44.0	Coupling Device (for T Category)	
B 44.1	Trade name or mark / approval No(s):	
B 44.2	Type (Mechanical / Close):	
B 44.3	Class of coupling device	
B 44.4	Maximum permissible static mass on coupling ball (kg)	
B 44.5	Maximum permissible static vertical load on coupling ball (kgf)	
B 44.6	Drawing showing details of mounting points on the vehicle	
B 44.7	D.....kN Dc.....kN S.....kg	

Manufacturer	Sheet No :	Test Agency :
	Document No:	
Name: Designation :	Date :	Name: Designation :

Table 3 of AIS-007 (Revision 5)

	U.....tonnes V.....kN																																										
B 45.0	Make of the rear marking plate:																																										
B 45.1	Rear marking plate type:																																										
B 45.2	Rear marking plate class:																																										
B 45.3	Position and nature of the marking:																																										
B 46.0	Child Restraint system (CRS) ;																																										
B 46.1	Seating Positions for Child restraint system (As per AIS-072)																																										
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th rowspan="2" style="width: 25%;">Mass Group</th> <th colspan="5">Seating Position (or other site)</th> </tr> <tr> <th style="width: 15%;">Front Passenger</th> <th style="width: 15%;">Rear Outboard</th> <th style="width: 15%;">Rear Centre</th> <th style="width: 15%;">Intermediate Outboard</th> <th style="width: 15%;">Intermediate Centre</th> </tr> <tr> <td>Group 0 up to 10 kg</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Group 0+ up to 13 kg</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Group I 9 to 18 kg</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Group II 15 to 25 kg</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Group III 22 to 36 kg</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>		Mass Group	Seating Position (or other site)					Front Passenger	Rear Outboard	Rear Centre	Intermediate Outboard	Intermediate Centre	Group 0 up to 10 kg						Group 0+ up to 13 kg						Group I 9 to 18 kg						Group II 15 to 25 kg						Group III 22 to 36 kg					
Mass Group	Seating Position (or other site)																																										
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Group I 9 to 18 kg																																											
Group II 15 to 25 kg																																											
Group III 22 to 36 kg																																											
	<p>Key of letters to be inserted in the above table:</p> <p>U = Suitable for “Universal” category restraints approved for use in this mass group.</p> <p>UF = Suitable for forward-facing “Universal” category restraints approved for use in this mass group.</p> <p>L = Suitable for particular child restraints given on attached list. These restraints may be of the “Specific vehicle”. “Restricted” or “Semi-Universal” categories.</p> <p>B = Built in restraints approved for this mass group.</p>																																										

Manufacturer	Sheet No :	Test Agency :
	Document No:	
Name:	Date :	Name:
Designation :		Designation :

Table 3 of AIS-007 (Revision 5)

	X = Set position not suitable for children in this mass group.	
B 46.2	Details of CRS (To be provided if the CRS is not of Universal category (U/UF))	
B 46.3	Category of CRS(Semi Universal, Restricted or specific vehicle)	
B 46.4	Belt type: (adult) three-point belt (adult) lap belt/ special type belt/retractor;	
B 46.5	Trade name or mark	
B 46.6	Drawings, Diagrams and plans of the child restraint, including any retractor, chair assembly, impact shield fitted	
B 46.7	Drawings, Diagrams and plans of the child restraint, including any retractor, chair assembly, impact shield fitted;	
B 46.8	Drawings, Diagrams and plans of the vehicle structure and the seat structure, as well as of the adjustment system and the attachments, including any energy absorber fitted;	
B 46.9	Photographs of the child restraint and/or vehicle structure and seat structure;	
B 47.0	Head-On Collision as per AIS-096 and Off-set frontal collision as per AIS-098	
B 47.1	Brief description of the vehicle type as regards its structure, dimensions, lines and constituent materials:	
B 47.2	Description of the protective system installed in the vehicle:	
B 47.3	Description of interior arrangements or fittings that might affect the tests:	
B 47.4	(Photographs and/or diagrams and drawings permitting the basic identification of the type(s) of vehicle and its possible variants which are covered by the approval)	
B 48.0	Side-Impact resistance as per AIS-099	
B 48.1	A detailed description, including photographs and/or drawings, of the vehicle type with respect to the structure, the dimensions, the design and the constituent materials, the side walls of the passenger compartment (exterior and	

Manufacturer	Sheet No :	Test Agency :
	Document No:	
Name:	Date :	Name:
Designation :		Designation :

Table 3 of AIS-007 (Revision 5)

	interior), including specific details of the protection system, where applicable:	
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B 49.0	Pedestrian protection as per AIS-100 :	
	The distance, measured longitudinally on a horizontal plane, between the transverse centerline of the front axle & the R point of the driver's seat is less than 1100 mm (Yes / No).	
B 49.1	Drawing of Bonnet & wings/ fender including material details	
B 49.2	Drawing / Images of position & arrangement of Engine	
B 49.3	Drawing/ Images of Under bonnet (Engine house) Components.	
B 49.4	Drawing mentioning ground levels for correct ride attitude of the vehicle.	
B 49.5	If lower bumper height is greater than, or equal to 425 mm and less than 500 mm, then test to be conducted with lower leg form or upper leg form	
B 49.6	Identified zones of the bonnet top where the HIC must not exceed 1,000 (HIC1000 Zone) & 1,700 (HIC1700 Zone) respectively with drawing of the complete test impact area with 1000 and 1700 HIC zones mark on it.	
B 50.0	Speed Governor (As applicable)	
B 50.1	Type of Speed Governor (SLD / SLF)	
B 50.2	Speed Limiting Device (SLD) [For vehicles with max. speed above 80 kmph in unladen condition as per AIS-018]	
B 50.3	Make	
B 50.4	Model	
B 50.5	Identification: TAC No. / BIS License No.	

Manufacturer	Sheet No :	Test Agency :
	Document No:	
Name: Designation :	Date :	Name: Designation :

Table 3 of AIS-007 (Revision 5)

B 50.6	SLD approved for speed/s (Annexure to be provided including information for every Vehicle Model / Variants indicating various SLD approved speeds contributed due to declared transmission options)	
B 51.0	Temporary Cabin for drive away chassis :	
B 51.1	Width of the temporary cabin (mm)	
B 51.2	Height of the temporary cabin (from seat top surface to canopy) (mm)	
B 51.3	Depth or Length of the temporary cabin (Clearance from the rear most back rest when the seat is taken at the rear-most position) (mm)	
B 51.4	Windshield type	
B 51.5	Drawing showing the mounting and relevant dimensions	
B 52.0	AIS-029 Survival Space for the Protection of the Occupants of the Cab of a Commercial Vehicle	
B 52.1	Drawing showing R-Point height for vehicle w.r.t ground & fiducial point on the vehicle for driver	
B 52.2	Cabin & Mounts Construction Details :	
B 52.3	Construction: Integrated / Attached with Mounts	
B 52.4	If attached with mounts: Number of cabin mounts: Cabin type: Tiltable / Fixed	
B 52.5	Cabin Size: Day / Sleeper / High-Roof / Low Roof / Extended Day Cab / Any combination	
B 52.6	Detailed drawings showing construction details of the cabin in sufficient details alongwith list of materials used in construction of the cabin	
B 52.7	Drawings of vehicle, showing the position of the cab on the vehicle and the manner of its attachment, and by sufficiently detailed drawings relating to the structure of the cab,	

Manufacturer	Sheet No :	Test Agency :
	Document No:	
Name: Designation :	Date :	Name: Designation :

Table 3 of AIS-007 (Revision 5)

B 52.8	Layout drawings for different types of cabin mounts available alongwith their position on chassis/frame, material properties of the mounts, attachment details, fastener details etc.	
B 52.9	Interior Space & Standard Fitments	
B 52.10	Layout drawings of the seating layout inside the cabin showing designated position of driver, co-driver, additional passengers, sleeper berths, second row seating positons etc.	
B 52.11	Individual drawings of the driver & other seats showing normal position of use along with adjustment positions clearly identified	
B 52.12	Layout drawings of the steering mechanism in mounted position along with normal position of use & adjustment positions clearly identified	
B 53.0	Information for Speed alert	
B 53.1	Details of audible alert (Alert above 80 km/h)	
B 53.2	Details of audible alert Continuous /intermittent.(Alert above 120 km/h)	
B 53.3.	if intermittent, Interval between Alerts	
B 54.0	Information for Safety belt reminder	
B 54.1.	Whether Visual warning for Safety belt reminder provided	
B 54.2.	Whether audible warning for Safety belt reminder provided	
B 55.0	Information for manual over-ride (Door, Door locks and hinges)(Yes/No):	
B 56.0	Information for Reverse Parking Alert System	
B 56.1.	Type of System (Sensor based / Camera based system)	
B 56.2.	Sensor based system (as applicable) information	
B 56.2.1	Make	

Manufacturer	Sheet No :	Test Agency :
	Document No:	
Name: Designation :	Date :	Name: Designation :

Table 3 of AIS-007 (Revision 5)

B 56.2.2	Identification No. / Part No.	
B 56.2.3	Number of sensors and mounting location	
B 56.3	Camera based System (as applicable)	
B 56.3.1	Make	
B 56.3.2	Identification No. / Part No.	
B 56.3.3	Camera mounting location	
B 56.3.4	Display Make	
B 56.3.5	Display Identification No. / Part No.	
B 56.3.6	Display location	

Manufacturer	Sheet No :	Test Agency :
	Document No:	
Name: Designation :	Date :	Name: Designation :