|  |  |  |
| --- | --- | --- |
| **TECHNICAL INFORMATION TO BE SUBMITTED BY THE ROAD AMBULANCE BODY BUILDER** | | |
| **1.0** | **Details of Ambulance manufacturer** |  |
| 1.1 | Name and Address : |  |
| 1.2 | Telephone No : |  |
| 1.3 | Fax. No. : |  |
| 1.4 | E mail address : |  |
| 1.5 | Contact person : |  |
| 1.6 | Name of model : |  |
| 1.7 | Category of Ambulance A/B/C/D |  |
| 1.8 | Name of variants, if any: |  |
| 1.9 | Type and General commercial description (s) : |  |
| 1.10 | Plant/(s)of manufacture : |  |
| **2.0** | **Vehicle Chassis Characteristics** |  |
| 2.1 | Chassis types approved for Body installation : |  |
| 2.2 | Type of Control (normal control/Full forward control etc.) : |  |
| 2.3 | Number of Axles and wheels : |  |
| 2.4 | Chassis (overall drawing) : |  |
| 2.5 | Valid CMVR certificate for the base Vehicle  ( If available ) |  |
| 2.6 | Frame Type : |  |
| 2.7 | Cross sectional view : |  |
| 2.8 | Position and arrangement of engine: |  |
| 2.9 | Category of Base vehicle : |  |
| **3.0** | **Body :** |  |
| 3.1 | Dimension drawing and photograph of the vehicle with representative body : |  |
| 3.2 | Range of vehicle dimension (overall): |  |
| 3.3 | Dimension drawing of the body depicting chassis connecting members : |  |
| 3.4 | Material used for construction : |  |
| 3.4.1 | Structural Material : |  |
| 3.4.2 | Size of sections : |  |
| 3.5 | Method of construction : |  |
| 3.5.1 | (Brief construction method) |  |
| 3.6 | Patient Handling Equipment |  |
| 3.6.1 | Main Stretcher / Undercarriage |  |
| 3.6.1.1 | Make |  |
| 3.6.1.2 | Model |  |
| 3.6.1.3 | Type |  |
| 3.6.1.4 | ID/Part Number |  |
| 3.6.1.5 | Dimensions of Stretcher |  |
| 3.6.1.6 | Loading Angle |  |
| 3.6.1.7 | Loading Height |  |
| 3.6.1.8 | Stretcher loading capacity |  |
| 3.12 | Recognition of Ambulance |  |
| 3.12.1 | Engineering drawing indicating arrangement for the external visibility for recognition and emblems. |  |
| **4.0** | **Vehicle Dimensions and weights** |  |
| 4.1 | Dimension (in mm) (Specify drawing reference) : |  |
| 4.1.1 | Length (mm) : |  |
| 4.1.2 | Width (mm) : |  |
| 4.1.3 | Height (Unladen) (mm) : |  |
| 4.1.4 | Wheel base (mm) : |  |
| 4.1.5 | Wheel track (mm) : |  |
| 4.1.5.1 | Front : |  |
| 4.1.5.2 | Rear : |  |
| 4.1.6 | Body overhang (mm) : |  |
| 4.1.6.1 | Front end : |  |
| 4.1.6.2 | Rear end : |  |
| 4.2 | Clearance |  |
| 4.3 | Minimum ground clearance : |  |
| 4.4 | Road clearance from floor : |  |
| 4.5 | Approach angle : |  |
| 4.6 | Departure Angle : |  |
| 4.7 | Ramp-over Angle : |  |
| 4.8 | Weights |  |
| 4.8.1 | Vehicle kerb weight (kg) : |  |
| 4.8.1.1 | Front axle : |  |
| 4.8.1.2 | Rear axle : |  |
| 4.8.1.3 | Total : |  |
| 4.8.2 | Gross vehicle weight (kg) : |  |
| 4.8.3 | Maximum permissible axle weights (kg) |  |
| 4.8.3.1 | Front axle: |  |
| 4.8.3.2 | Rear axle: |  |
| 4.9 | Tyres |  |
| 4.9.1 | Tyre type (Radial/cross ply) (with Tube / Tube less), size designation including ply rating, speed rating, Load rating or Load index. Use symbols as per IS 15633 / IS 15636 as may be applicable. |  |
| 4.9.1.1 | Front wheel |  |
| 4.9.1.2 | Rear wheel |  |
| 4.9.1.3 | Spare wheel (Other than temporary use spare wheel) |  |
| 4.9.1.4 | Other (for articulated/combination vehicles) |  |
| 4.9.1.5 | Dynamic rolling radius, (mm), as per IS 15633 / IS 15636 |  |
| 4.9.2 | No. and arrangement of wheels : |  |
| 4.9.2.1 | Front : |  |
| 4.9.2.2 | Rear : |  |
| 4.9.2.3 | Other : |  |
| 4.9.3 | Inflation pressure – Un laden : |  |
| 4.9.3.1 | Front : |  |
| 4.9.3.2 | Rear : |  |
| 4.9.3.3 | Other |  |
| 4.9.4 | Inflation pressure –Laden : |  |
| 4.9.4.1 | Front : |  |
| 4.9.4.2 | Rear : |  |
| 4.9.4.3 | Other : |  |
| **5.0** | **Body Panels** |  |
| 5.1 | Outer Panels : |  |
| 5.1.1 | Material : |  |
| 5.1.2 | Thickness : |  |
| 5.2 | Inner Panels : |  |
| 5.2.1 | Material : |  |
| 5.2.2 | Thickness : |  |
| 5.3 | Roof Panels : |  |
| 5.3.1 | Material : |  |
| 5.3.2 | Thickness : |  |
| 5.4 | Floor Panels : |  |
| 5.4.1 | Material : |  |
| 5.4.2 | Thickness : |  |
| 5.4.3 | Type of anti-slip coating : |  |
| **6.0** | **Service Doors** |  |
| 6.1 | No. of Service Doors : |  |
| 6.2 | Position of Service Doors : |  |
| 6.3 | Dimension of Service Door : |  |
| 6.3.1 | Front Height : |  |
| 6.3.2 | Width : |  |
| 6.3.3 | Rear Height : |  |
| 6.3.4 | Width : |  |
| 6.3.5 | Middle Height : |  |
| 6.3.6 | Width : |  |
| **7.0** | **Window** |  |
| 7.1 | Type of window |  |
| 7.3 | Area (H x W in sq. m) : |  |
| **8.0** | **Seat anchorage layout drawing**  **(with anchorage cross section and hardware used details)** |  |
| **9.0** | **Driver Partition :** |  |
| 9.1 | Dimension of partition with respect to rear edge of driver seat : (rear most position of driver seat) |  |
| **10.0** | **External Projections (Compliance established to IS:13943 -1994 ------ Yes / No)** |  |
| **11.0** | **Door locks and hinges** |  |
| 11.1 | Door lock / latch |  |
| 11.1.1 | Front |  |
| 11.1.1.1 | Make |  |
| 11.1.1.2 | Identification No. / Part No. |  |
| 11.1.2 | Rear |  |
| 11.1.2.1 | Make |  |
| 11.1.2.2 | Identification No. / Part No. |  |
| 11.2 | Door hinge |  |
| 11.2.1 | Front |  |
| 11.2.1.1 | Make |  |
| 11.2.1.2 | Identification No. / Part No. |  |
| 11.2.2 | Rear |  |
| 11.2.2.1 | Make |  |
| 11.2.2.2 | Identification No. / Part No. |  |
| 11.3 | Safety glass |  |
| 11.3.1 | Front wind shield (laminated) |  |
| 11.3.1.1 | Make |  |
| 11.3.1.2 | Identification: TAC No. / BIS License No. / E- Marking |  |
| 11.3.1.3 | Type (flat/curved, clear/tinted) |  |
| 11.3.1.4 | Thickness (mm) |  |
| 11.3.1.5 | No. of pieces |  |
| 11.3.1.6 | Radius of curvature (if curved) |  |
| 11.3.1.7 | Method of fixing (for approval of Demisting / Defrosting system) |  |
| 11.3.2 | Side Windows (Left & Right) |  |
| 11.3.2.1 | Make |  |
| 11.3.2.2 | Identification: TAC No. / BIS License No. / E- Marking |  |
| 11.3.2.3 | Type(flat/curved, clear/tinted, toughened/laminated) |  |
| 11.3.2.4 | Thickness (mm) |  |
| 11.3.3 | Rear Window |  |
| 11.3.3.1 | Make |  |
| 11.3.3.2 | Identification: TAC No. / BIS License No. / E- Marking |  |
| 11.3.3.3 | Type(flat/curved, clear/tinted, toughened/laminated) |  |
| 11.3.3.4 | Thickness (mm) |  |
| 11.3.3.5 | Radius of curvature (if curved) |  |
| 11.3.4 | Wind Screen Wiper |  |
| 11.3.4.1 | Type (Manual/power) |  |
| 11.3.4.2 | No. of wipers |  |
| 11.3.5 | Wiper motor : |  |
| 11.3.5.1 | Make: |  |
| 11.3.5.2 | Type and identification : |  |
| 11.3.5.3 | Rated voltage : |  |
| 11.3.5.4 | Frequency of wiping : |  |
| 11.3.6 | Wiper arm : |  |
| 11.3.6.1 | Length : |  |
| 11.3.6.2 | Make : |  |
| 11.3.6.3 | Identification Mark: |  |
| 11.3.7 | Wiper blade : |  |
| 11.3.7 .1 | Length : |  |
| 11.3.7 .2 | Make : |  |
| 11.3.7 .3 | Identification Mark: |  |
| 11.3.8 | Rubber material : |  |
| 11.3.8.1 | Type of fixing (As per IS:7827) |  |
| 11.3.9 | Wind Screen Washer |  |
| 11.3.9.1 | Make : |  |
| 11.3.10 | Type : |  |
| 11.3.10.1 | Number of nozzles : |  |
| 11.3.10.2 | Spray Area : |  |
| 11.3.10.3 | Identification Number: |  |
| **12.0** | **Equipment for occupant's safety** |  |
| 12.1 | Driver Seat belt : |  |
| 12.1.1 | Make : |  |
| 12.1.2 | Type : |  |
| 12.1.3 | Number : |  |
| 12.1.4 | Identification Number: |  |
| 12.2 | Driver Seat belt anchorage : |  |
| 12.2.1 | Make : |  |
| 12.2.2 | Type : |  |
| 12.2.3 | Number : |  |
| 12.3 | Head restraint : |  |
| 12.3.1 | Make : |  |
| 12.3.2 | Type : |  |
| 12.4 | Seat : |  |
| 12.4.1 | Number of Patients and attendant seats |  |
| 12.4.2 | Position |  |
| 12.4.3 | Make : |  |
| 12.4.4 | Type : |  |
| 12.4.5 | Frame structure Material : |  |
| 12.4.6 | Section size: |  |
| 12.4.7 | Pad material: |  |
| 12.4.8 | Upholstery : |  |
| 12.4.9 | Identification Number: |  |
| **13.0** | **Bumper** |  |
| 13.1 | Front Size: |  |
| 13.2 | Rear Size: |  |
| 13.3 | Clearance between bumper and body: |  |
| **14.0** | **Fire Extinguisher :** |  |
| 14.1 | Number : |  |
| 14.2 | Type : |  |
| 14.3 | Capacity : |  |
| 14.5 | Make : |  |
| **15.0** | **Towing devices :** |  |
| 15.1 | Type : |  |
| 15.2 | Make : |  |
| 15.3 | Capacity : |  |
| 15.4 | Identification Number / Part No |  |
| **16.0** | **Automotive bulbs ( To be filled , if different from the valid CMVR Compliance certificate )** |  |
| 16.1 | Head lamp bulb (main and dip) |  |
| 16.1.1 | Make |  |
| 16.1.2 | Category as per AIS-034 |  |
| 16.1.3 | Identification: TAC No./BIS License No./E-Marking/ |  |
| 16.2 | Parking Lamp bulb – Front : |  |
| 16.2.1 | Make |  |
| 16.2.2 | Category as per AIS-034 |  |
| 16.2.3 | Identification: TAC No./BIS License No./E-Marking/ |  |
| 16.3 | Parking Lamp bulb – Rear : |  |
| 16.3.1 | Make |  |
| 16.3.2 | Category as per AIS-034 |  |
| 16.3.2 | Identification: TAC No./BIS License No./E-Marking/ |  |
| 16.4 | Direction indicator lamp bulb - front : |  |
| 16.4.1 | Make |  |
| 16.4.2 | Category as per AIS-034 |  |
| 16.4.3 | Identification: TAC No./BIS License No./E-Marking/ |  |
| 16.5 | Direction indicator lamp bulb – rear : |  |
| 16.5.1 | Make |  |
| 16.5.2 | Category as per AIS-034 |  |
| 16.5.3 | Identification: TAC No./BIS License No./E-Marking/ |  |
| 16.6 | Direction indicator lamp bulb – side : |  |
| 16.6.1 | Make |  |
| 16.6.2 | Category as per AIS-034 |  |
| 16.6.3 | Identification: TAC No./BIS License No./E-Marking/ |  |
| 16.7 | Front Position Lamp bulb : |  |
| 16.7.1 | Make |  |
| 16.7.2 | Category as per AIS-034 |  |
| 16.7.3 | Identification: TAC No./BIS License No./E-Marking/ |  |
| 16.8 | Rear Position Lamp ( tail lamp )Bulb : |  |
| 16.8.1 | Make |  |
| 16.8.2 | Category as per AIS-034 |  |
| 16.8.3 | Identification: TAC No./BIS License No./E-Marking/ |  |
| 16.9 | Stop lamp bulb : |  |
| 16.9.1 | Make |  |
| 16.9.2 | Category as per AIS-034 |  |
| 16.9.3 | Identification: TAC No./BIS License No./E-Marking/ |  |
| 16.10 | Number plate lamp bulb : |  |
| 16.10.1 | Make |  |
| 16.10.2 | Category as per AIS-034 |  |
| 16.10.3 | Identification: TAC No./BIS License No./E-Marking/ |  |
| 16.11 | End out Marker bulb : |  |
| 16.11.1 | Make |  |
| 16.11.2 | Category as per AIS-034 |  |
| 16.11.3 | Identification: TAC No./BIS License No./E-Marking/ |  |
| 16.12 | Reversing lamp bulb : |  |
| 16.12.1 | Make |  |
| 16.12.2 | Category as per AIS-034 |  |
| 16.12.3 | Identification: TAC No./BIS License No./E-Marking/ |  |
| 16.13 | Stop Lamp Bulb (S3) : |  |
| 16.13.1 | Make |  |
| 16.13.2 | Category as per AIS-034 |  |
| 16.13.3 | Identification: TAC No./BIS License No./E-Marking/ |  |
| 16.14 | Front Fog Lamp Bulb: |  |
| 16.14.1 | Make |  |
| 16.14.2 | Category as per AIS-034 |  |
| 16.14.3 | Identification: TAC No./BIS License No./E-Marking/ |  |
| 16.15 | Rear Fog Lamp Bulb : |  |
| 16.15.1 | Make |  |
| 16.15.2 | Category as per AIS-034 |  |
| 16.15.3 | Identification: TAC No./BIS License No./E-Marking/ |  |
| 16.16 | Side Marker Lamp Bulb : |  |
| 16.16.1 | Make |  |
| 16.16.2 | Category as per AIS-034 |  |
| 16.16.3 | Identification: TAC No./BIS License No./E-Marking/ |  |
| **17.0** | **Head Lamp ( To be filled if different from the valid CMVR Compliance certificate)** |  |
| 17.1 | Make |  |
| 17.2 | Type of Lens (Glass/Plastic) |  |
| 17.3 | Identification: TAC No. / BIS License No. / E- Marking |  |
| 17.4 | Number and colour of lens |  |
| **18.0** | **Tail lamp ( To be filled if different from the valid CMVR Compliance certificate)** |  |
| 18.1 | Make |  |
| 18.2 | Type of Lens (Glass/Plastic) |  |
| 18.3 | Identification: TAC No. / BIS License No. / E- Marking |  |
| 18.4 | Number and colour of lens |  |
| **19.0** | **Parking lamp ( To be filled if different from the valid CMVR Compliance certificate)** |  |
| 19.1 | Front : |  |
| 19.1.1 | Make |  |
| 19.1.2 | Type of Lens (Glass/Plastic) |  |
| 19.1.3 | Identification: TAC No. / BIS License No. / E- Marking |  |
| 19.1.4 | Number and colour of lens |  |
| 19.2 | Rear : |  |
| 19.2.1 | Make |  |
| 19.2.2 | Type of Lens (Glass/Plastic) |  |
| 19.2.3 | Identification: TAC No. / BIS License No. / E- Marking |  |
| 19.2.4 | Number and colour of lens |  |
| **20.0** | **Stop lamp ( To be filled if different from the valid CMVR Compliance certificate)** |  |
| 20.1 | Make |  |
| 20.2 | Type of Lens (Glass/Plastic) |  |
| 20.3 | Identification: TAC No. / BIS License No. / E- Marking |  |
| 20.4 | Number and colour of lens |  |
| **21.0** | **Reversing lamp ( To be filled if different from the valid CMVR Compliance certificate)** |  |
| 21.1 | Make |  |
| 21.2 | Type of Lens (Glass/Plastic) |  |
| 21.3 | Identification: TAC No. / BIS License No. / E- Marking |  |
| 21.4 | Number and colour of lens |  |
| **22.0** | **Direction indicator lamp ( To be filled if different from the valid CMVR Compliance certificate)** |  |
| 22.1 | Front : |  |
| 22.1.1 | Make |  |
| 22.1.2 | Type of Lens (Glass/Plastic) |  |
| 22.1.3 | Identification: TAC No. / BIS License No. / E- Marking |  |
| 22.1.4 | Number and colour of lens |  |
| 22.2 | Rear : |  |
| 22.2.1 | Make |  |
| 22.2.2 | Type of Lens (Glass/Plastic) |  |
| 22.2.3 | Identification: TAC No. / BIS License No. / E- Marking |  |
| 22.2.4 | Number and colour of lens |  |
| 22.3 | Side : |  |
| 22.3.1 | Make |  |
| 22.3.2 | Type of Lens (Glass/Plastic) |  |
| 22.3.3 | Identification: TAC No. / BIS License No. / E- Marking |  |
| 22.3.4 | Number and colour of lens |  |
| 22.3.5 | Type of flasher : |  |
| **23.0** | **Number Plate Lamp ( To be filled if different from the valid CMVR Compliance certificate)** |  |
| 23.1 | Make |  |
| 23.2 | Type of Lens (Glass/Plastic) |  |
| 23.3 | Identification: TAC No. / BIS License No. / E- Marking |  |
| 23.4 | Number and colour of lens |  |
| **24.0** | **Warning Lamp ( To be filled if different from the valid CMVR Compliance certificate)** |  |
| 24.1 | Make |  |
| 24.2 | Type of Lens (Glass/Plastic) |  |
| 24.3 | Identification: TAC No. / BIS License No. / E- Marking |  |
| 24.4 | Number and colour of lens |  |
| **25.0** | **Siren- Compliance to IS 1884 – Yes / No)** |  |
| 25.1 | Make : |  |
| 25.2 | Model : |  |
| 25.3 | ID / Part Number : |  |
| **26.0** | **Reflector ( To be filled if different from the valid CMVR Compliance certificate)** |  |
| 26.1 | Rear : |  |
| 26.2 | Make: |  |
| 26.3 | Type and Identification : |  |
| 26.4 | Number and colour : |  |
| 26.5 | Area (cm2): |  |
| 26.6 | Side : |  |
| 26.7 | Make : |  |
| 26.8 | Type and Identification : |  |
| 26.9 | Number and colour : |  |
| 26.10 | Area (cm2) : |  |
| **27.0** | **Top light ( To be filled if different from the valid CMVR Compliance certificate)** |  |
| 27.1 | Make : |  |
| 27.2 | Type and Identification : |  |
| 27.3 | Number and colour : |  |
| **28.0** | **Internal Lighting and Illumination** |  |
| 28.1 | Driver Cab lighting : |  |
| 28.1.1 | Type : |  |
| 28.1.2 | Make : |  |
| 28.1.3 | Number : |  |
| 28.1.4 | Illumination intensity ( Lux) : |  |
| 28 .2 | Patient Compartment Lighting : |  |
| 28.2.1 | Type : |  |
| 28.2.2 | Make : |  |
| 28.2.3 | Number : |  |
| 28.2.4 | Illumination intensity ( Lux) : |  |
| 28.3 | Other Area Lighting : |  |
| 28.3.1 | Type : |  |
| 28.3.2 | Make : |  |
| 28.3.3 | Number : |  |
| 28.3.4 | Illumination intensity ( Lux) : |  |
| **29.0** | **Electrical Circuit :** |  |
| 29.1 | Circuit Diagram (attach details): |  |
| 29.2 | Number of battery(ies) provided other than the vehicle battery : |  |
| 29.3 | Details of Alternator : |  |
| **30.0** | **Electrical Cables :** |  |
| 30.1 | Make : |  |
| 30.2 | Conductor Cross section : |  |
| 30.3 | Insulation Class : |  |
| **31.0** | **Fuse :** |  |
| 31.1 | Type: |  |
| 31.2 | Make : |  |
| **32.0** | **Master switch for electrical :** |  |
| 32.1 | Type: |  |
| 32.2 | Make : |  |
| **33.0** | **Flammability Test as per IS 15061: 2002 (as applicable ) :** |  |
| **34.0** | Instrument Panel (Dash Board) |  |
| **35.0** | Make |  |
| 35.1 | Identification No. / Part No. |  |
| 35.2 | Drawing showing the mounting details, overall size and all control switches with dimensions |  |
| 35.3 | Additional details for interior fitting tests to be given (if test is already conducted, this information need not be submitted). |  |
| 35.4 | Instrument Panel Variants with photographs (With / without Airbag, Music system, AC) |  |
| 35.5 | Material used for instrument Panel |  |
| 35.6 | Drawings |  |
| 35.7 | Instrument Panel mounting (With hardware details) |  |
| 35.8 | ‘H’ point co-ordinates for each seating position |  |
| 35.9 | Cross sectional drawings for each projection more than 3.2 |  |
| 35.10 | Cross sectional Drawing of Gear shift lever |  |
| 35.11 | Drawing of Grab handle with cross section |  |
| 35.12 | Drawing of Sun visor with details of metal wire used |  |
| 35.13 | Drawing of lamp assembly mounted at roof |  |
| **36.0** | **Air Conditioning and Heating Performance Tests(Clause 4.5.4) Compliance Established**  **–Yes / No** |  |
| **37.0** | **Acceleration Test (Clause 4.2.1 and IS:11851-2002) Compliance Established – Yes / No** |  |
| **38.0** | **Water Proofing Test (IS:11865-1995) – Compliance Established –Yes / No** |  |
| **39.0** | **Dust Ingress Test (IS:11739-1997) Compliance Established –Yes / No** |  |
| **40.0** | **Reflective tape (AIS-090)** |  |
| 40.1 | Make |  |
| 40.2 | Width of tape(s) in mm |  |
| 40.3 | Identification: TAC No. / BIS License No. / E- Marking |  |
| 40.4 | Dimensional Drawing indicating installation details of reflective Tapes at front, Rear & side of the vehicle / load body / container / Tanker etc., as per AIS-090 |  |