



**The Federation of Motor Sports Clubs of India**

National Sports Federation recognized by the Government of India

**2022 Technical Regulations for  
SUPER STOCK CARS  
(SSC)**

Member of



Federation Internationale de l' Automobile

**2022 Technical Regulations for Super Stock Cars – SSC**

The Following Articles of 2021 FMSCI Appendix J is applicable

Art.251 – Classification and Definitions

Art.252 – General Prescriptions for Production Cars(Group N), Touring Cars(Group A)

Art.253 – Safety Equipment (Groups N, A)

Any modifications are forbidden unless expressly authorized by the regulations specific to the group as mentioned below.

**Art.1 - Eligible Vehicles**

Any large-scale series production Touring car manufactured / assembled and sold in India. Only vehicles with Homologation / TDF (Technical Data Form) are allowed.

Normally aspirated Petrol.

OE Factory fitted Petrol Turbo vehicles.

**Art.2 - Classes**

Naturally aspirated Upto 2000 cc

Turbo Upto 1176cc

**Art.3 - Minimum Weight & Ballast**

The minimum weight of the cars will be cc divided by a constant which is **1.5 for cars up to 1250cc.**

The minimum weight of the cars will be cc divided by a constant which is **1.4 for cars from 1250cc up to 2000cc.**

**Turbo cars will have a multiplication factor of 1.7 times for equalization (eg. 1176cc x 1.7 = 2000cc. minimum weight will be 1428 Kgs)**

In order to maximize equality of performance, the FMSCI reserves the right to change the minimum weights at any point of time as deem fit.

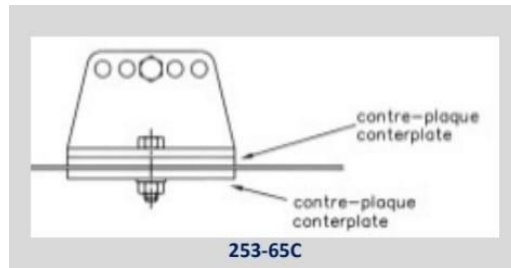
This is the real weight of the car WITH DRIVER(wearing racing gear and Helmet).

All the liquid tanks (lubrication, cooling, braking, heating where applicable) must be at the normal level foreseen by the manufacturer, with the exception of the wind screen wiper.

It is permitted to complete the weight of the car by one several ballast provided that they are strong and unitary blocks, fixed by means of tools with the possibility to fix seals, placed on the floor of the cockpit, visible and sealed by the scrutineers.

The ballast must be attached to the bodyshell/chassis at least at two fixing points by bolts of at least grade 8.8 with a minimum diameter of 10mm, with counter plates, according to the principle of Drawings 253-65C

No ballast should have sharp edges and all the edges must have a radius of minimum 5mm.



The minimum area of contact between bodyshell /chassis and counter plate is 40cm<sup>2</sup> for each fixing point.

Any movable ballast system is forbidden.

#### **Art.4 - Engine**

Modification to the Engine is not permitted.

Reboring the block to accommodate a piston which is 0.5mm max over the standard piston's original diameter – (Homologation/TDF details) ALL OTHER DIMENSIONS/SHAPE REMAINING THE SAME is allowed even if the class capacity limit is exceed (crossing the limit of 2000cc is permitted, provided that this limit was crossed only by means of reboring to accommodate a piston than is larger (ONLY) in diameter by a maximum of 0.5mm.

#### **Art.4.1-Radiator**

**No other medium other than water is allowed as coolant.**

#### **Art.5 - Ignition System**

Spark plugs, plug wire, coil and trigger wheel and rotor are free provided they are mechanically interchangeable with the original part.(Electronic additional ignition system AEM / MSD6AL / Apcel are not permitted)

#### **Art.6 - Throttle Body**

Throttle Body / Inlet manifold must be OE (TDF / Homologated)

#### **Art.7 - Exhaust System**

The exit of the exhaust maybe on the right or left side of the car, behind the mid-point of the wheelbase and below the door sill, or exit at the rear of the car.

Catalytic converter to be removed, and diameter of Inlet pipe and Outlet pipe of the catalytic converter to be maintained as OE.

No part of the car must touch the ground when all the tyres on one side are deflated. This test shall be carried out on a flat surface under race conditions (occupants on board).

#### **Art.8 – Gearbox & Differential**

Modification to the Gearbox is not permitted, as well as the differential.

#### **Art.9 - Braking System**

No modifications permitted.

Brake Pads are Free but original shape and Dimension to be maintained.

Brake Fluid Free, Brake lines, Braided hoses are allowed.

Fly off Hand brakes permitted

If the car is fitted with ABS it can be made inoperative or removed.

### Art.10 - Suspension

OE Shock absorbers to be used.

Shock absorber can be re-valved or higher density shock absorber oil can be used.

Springs are free provided they fit into the original top mount and bottom seating area of the shock absorber.

No alteration are permitted to the bottom spring seat mount or the top mount by the way of extra spring seats.

The reinforcing of the structural parts of the suspension (with the exception of anti-roll bars)and its anchorage points by the addition of material is allowed.

The Antiroll bar may be removed if required. The balance rod link height is FREE.

Ride height free.

Bushings and Mountings should conform to original design and size, uprated material is allowed.

Ground clearance must be such that no part of the cartouches the ground when two tyres on the same side of the car are deflated, WITH DRIVER

### Art.11 - Wheels & Tyres

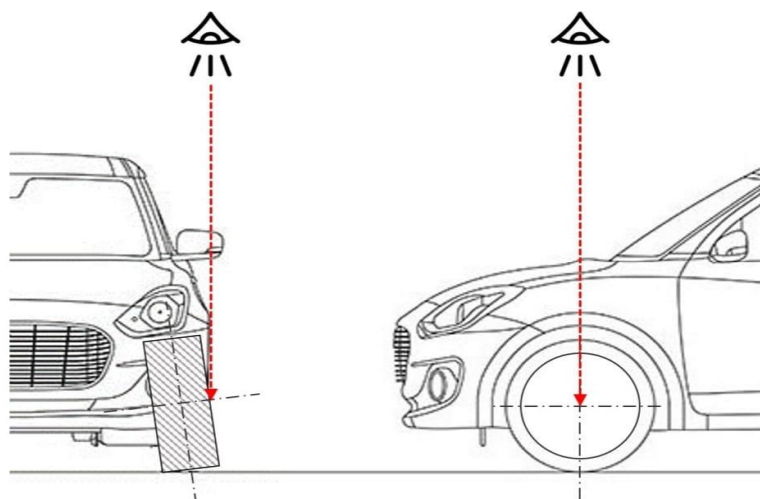
Wheel rim size is free. The competitor has the right to choose the rim size based on the tyre size provided / supplied by the Organizer.

Maximum Track width as per Art 207 as per homologation data / TDF may be increased by **maximum of 50mm overall.**

Wheel rim offset is free, **provided that it complies with Maximum Track Allowed.**

Spare wheel must be removed

No portion of the tyre above the centre line must be visible when viewed from the top(see drawing 11-1)



11-1

**Art.12 - ECU**

Flashing of OE ECU is allowed

**Additional Sensors and Actuators not permitted.**

**Wiring harness must be original and any kind of modification is forbidden.**

**Art.13 - Fuel Pump**

Additional fuel pump CANNOT be fitted.

**Art.14 - Interior**

Floor carpets must be removed

All sound proofing material may be removed.

**Art.15 - Exterior**

Hubcaps must be removed.

Only the front bonnet, the rear boot/ Tail gate may be made of fiberglass, metal or composite or a combination.

The fibre glass must replicate the original shape(**The Moulded/Fabricated/Tinkered component should be replicate the original shape and dimensions in all respects**). **Failure to adhere this will result in DISQUALIFICATION FROM THE RACE.**

It is permitted to replace the OE Bumpers with Fibre glass replicas, provided the shape is identical to the OE component. Failure to adhere this will result in DISQUALIFICATION FROM THE RACE.

*The Frame/Cowl which houses the radiator assembly, if made of plastic, may be made/repaired/strengthened with metal, so long as the original position of the components, it houses remains the same as provided by the manufacturer. Any change in position is permitted if a specific regulation allows it.*

Front passenger door must be openable

Headlights can be removed. However, the opening must be covered with a fiberglass / metal plate and of same shape/profile and size as OE Headlights and be safely secured.

**However, headlights must be fixed and working for night racing and need not be OE**

The front grill is free and can be fabricated.

Fiberglass Specification

Recommended to be minimum of 3mm thickness.

Ribs in the Fiberglass bonnet is MANDATORY.

The TECHNICAL DELEGATE (in his absence the Chief Scrutineer) IS THE FINAL AUTHORITY ON THE CONDITION, STRUCTURE AND SAFTY OF THE MODIFIED PARTS.

**Art.16 - Door**

**The doors** must be original as supplied by the manufacturer.

Door pads and all insulation materials may be removed.

All sound proofing material may be removed.

### Art.17 - Side and Rear Windows

The use of transparent or colour less anti-shatter film on the side windows is mandatory if the original glass is used.

Rear door window glasses and the rear windshield, may be replaced with Polycarbonate of minimum 3mm thick and provided it is properly riveted or bolted.

**Front doors** winder mechanism may be changed to manual or vice versa.

Rear doors winder mechanism may be removed.

### Art.18 - AC and Heating

The components relating to the A/C and Heating may be removed.

### Art.19 - Safety

As per FMSCI Regulations Art 253 Safety Equipment & 2022 FMSCI Safety Requirements for 4W.

#### Protective Padding

Where the occupant's bodies could come into contact with the safety cage, flame retardant padding must be provided for protection.

#### Rear View

Rear view visibility must be ensured by two external rear-view mirrors (one on the right and one on the left).The rear-view mirrors may be replaced with any aftermarket replacements, as long as the viewing area is equal to or more than the OE part.

An inside rear-view mirror is mandatory

### Art.20 - Fire Extinguisher

The minimum Quantity of Extinguishant for plumped system mounted must be 3kg.

Manual Extinguishers

#### Minimum Quantity of Extinguishant:

- AFFF            2.4liters
- FX G-TEC      2.0 kg
- Viro 3          2.0kg
- Zero360        2.0kg
- Powder         2.0kg

Fire Extinguishers to be rigidly fastened with a quick release clamps (minimum 2 nos.) fitted in an easily accessible and a visible position. The mounting bracket of the fire extinguisher must be bolted to the floor with a bolt of minimum 10 mm diameter. The bracket thickness–2MM MS SHEET METAL

### Art.21 - Roll Cage Basic Structure

As per FMSCI Racing Regulations **Article-253 – Art-8.Safety Cages**

**Art.22 - Reinforcement of Aprons (Front)**

It is permitted to add a member between the aprons (Strut Brace), mounted only by means of bolt & nuts.

**\*\*END\*\***