



The Federation of Motor Sports Clubs of India

National Sports Federation recognized by the Government of India

**2019 Technical Regulations for
SUPER STOCK (SS)
(TC-3)**

Member of



Federation Internationale de l' Automobile



Federation Internationale de Motocyclisme

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2019 Technical Regulations for Super Stock (TC3)

The following Articles of 2019 FMSCI racing regulations 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)

Art.254 – Specific Regulations for Production Cars (Group N)

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

Eligible Vehicles

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

Classes

Upto 1625 cc

Weight

The minimum weight of the cars will be cc divided by a constant which is **1.65 for 1625cc** WITH DRIVER. This is the real weight of the car WITH DRIVER.

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 windscreen wiper.

1.1 Engine

Modification to the Engine is not permitted.

1.2 Ignition System

Spark plugs, plug wire, coil and trigger wheel and rotor are free provided they are mechanically interchangeable with the original part.

2.1 Engine & Gearbox Mounting

Engine and Gearbox Mount materials Free Not their Numbers

3.1 Throttle Body

Throttle Body OE (TDF / Homologated) upstream of throttle body is free. For eg resonator plumbing, airfilter free.

4.1 Exhaust system

Free

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.

5.1 Gearbox

Modification to the Gearbox is not permitted. Clutch and Pressure Plate is free. Clutch must be mechanically interchangeable with the original part.

6.1 Differential

Removal of material on the inside of the casing to accommodate fitment of LSD is permitted.

7.1 Braking System

No modification permitted.

Hand brake: Fly-off hand brake is permitted

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

Brake lines, Braided hoses are allowed.

8.1 Suspension

Shock absorbers and Springs free, External shock canisters allowed. Location is free.

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.

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 car touches the ground when two tyres on the same side of the car are deflated, WITH DRIVER

Front and Rear suspension top mount - fitting of uniball joint is permitted and modifications required in the strut tower to accommodate the uniball joint may be allowed.

Front and Rear Suspension Top mounts Free

Camber and Caster can be modified - (camber/caster change only through top mounts) 3 way dampers are permitted - (One way, two way and three way dampers are allowed)

In case of a torsion beam assembly the hub, the spindle including, flange of the torsion beam can be machined and/or shimmed to achieve the required geometrical change.

9.1 Wheels & Tyres

Homologated / TDF wheel rim size is only permitted

Rim width can be maximum 1" (one inch) more than Homologated / TDF size

Maximum Track width as per Art 207 as per homologation data / TDF may be increased by 50mm

Wheel rim offset is free

Spare wheel must be removed

10.1 ECU

FREE

Modifications to the wiring harness must be within 10 inches from ECU connector. Additional Sensors and Actuators not permitted.

11.1 Fuel Pump

Additional fuel pump CANNOT be fitted.

12.1 Interior

Dashboard: The dashboard MAY BE REMOVED. Floor: Carpets are free and must be removed.

13.1 Exterior

A fabricated shield may be incorporated in place of an AC condenser. Hubcaps must be removed.

Only the front bonnet, front fenders and the rear boot/ Tail gate may be made of fiberglass ,metal or composite or a combination. The fibre glass must replicate the original shape.

Front passenger door must be openable

Headlights can be removed. However the opening must be covered with a fiberglass / metal plate and be safely secured.

Original Grill should be there.

Fiberglass Specification

Recommended to be minimum of 3mm thickness.

Ribs in the Fiberglass bonnet is recommended.

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

14.1 Door

Must be original as supplied by the manufacturer.

Door pads and all insulation materials may be removed.

15.1 Side and Rear Windows

The use of transparent or colorless anti shatter film on the side windows is mandatory.

16.1 AC and Heating

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

17.1 Safety

2019 FMSCI Safety Regulations (Article 253)

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

Reward visibility must be ensured by two external rear-view mirrors (one on the right and one on the left).

An inside rear view mirror is optional

18.1 Fire Extinguisher Systems Mounted

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

Manual Extinguishers

Minimum Quantity of Extinguishant: AFFF 2.4 liters

| | |
|----------|--------|
| FX G-TEC | 2.0 kg |
| Viro 3 | 2.0 kg |
| Zero 360 | 2.0 kg |
| Powder | 2.0 kg |

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

19.1 Roll Cage Basic Structure

As per FMSCI Regulations- RACING REGULATIONS

The basic structure must be made according to one of the following designs :

1 main rollbar + 1 front rollbar + 2 longitudinal members + 2 backstays + 6 mounting feet (Drawing 253-1)

or

1 lateral rollbars + 2 transverse members + 2 backstays + 6 mounting feet (Drawing 253-2)

or

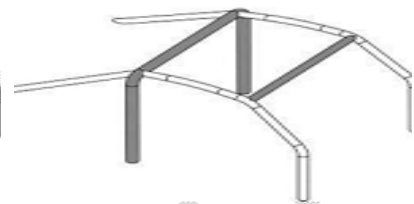
1 main rollbar + 2 lateral half-rollbars + 1 transverse member + 2 backstays + 6 mounting feet (Drawing 253-3)



253-1



253-2



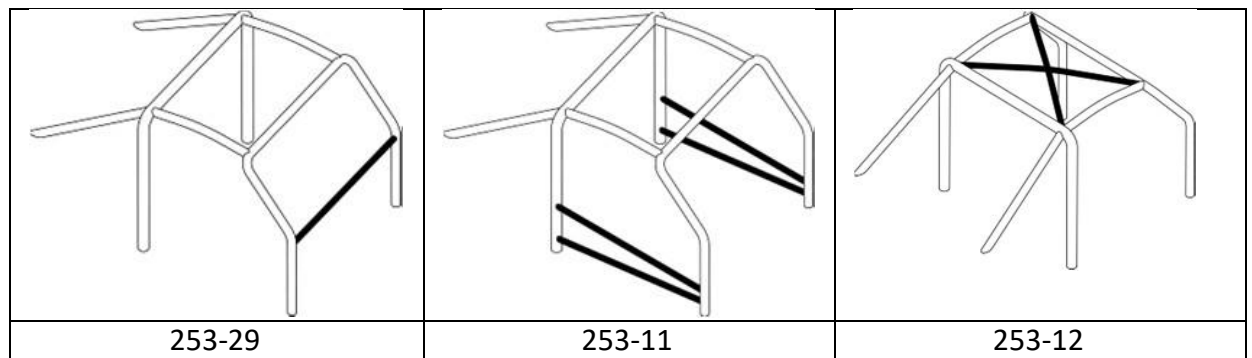
253-3

Compulsory members and reinforcements

Cold drawn seamless unalloyed carbon steel tube (Containing a maximum of 0.3% of carbon) with a minimum tensile strength of 350 N/mm²

The minimum dimensions being 45mm X 2.5mm or 50mm X 2mm.

The basic minimum structural requirement as per Drawing 253-29 with side impact bars as in Drawing 253-11 and roof reinforcement Drawing as in 253-12. (Single Cross member is also allowed in Drawing 253-12).



20.1 Ballast

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.

21.1 Reinforcement of Aprons (Front)

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

** END **