



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

**2018**

**Technical Regulation  
for  
Super Stock Cars (TC-3)**

Member of



Federation Internationale  
de l' Automobile



Federation Internationale  
de Motocyclisme



Indian Olympic Association

## 2018 Specific Technical Regulations for Super Stock Cars (TC-3)

The following Articles of 2018 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)**

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

**Art.255 – Specific Regulation for Touring Cars (Group A)**

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

### **Series Part (SP)**

Series Part being original parts or replacement parts identical to the original parts as fitted to the car / engine at the time of manufacture or subsequently replaced due to use or accident. All such parts shall be available through the original car manufacturer's dealer network. All relevant specifications shall be referenced from the manufacturers' official data or applicable FIA/FMSCI homologation form or TDF form.

### **Free Part (FP)**

Free Part being parts that may be freely sourced. Such parts may be removed or replaced with another part on condition that the substitute part has no additional function relative to the part it replaces. These parts may have other conditions imposed under these technical regulations.

### **Eligible Vehicles**

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

### **Classes**

Up to 1200cc  
Above 1201cc up to 1600cc

### **Weight**

The minimum weight of the cars will be cc divided by a constant which is **1.3 for 1200cc and 1.65 for 1600cc 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.

#### **2.1 Engine & Gearbox Mounting**

Engine and Gearbox Mount materials Free  
Not their Numbers

#### **3.1 Throttle Body**

Throttle Body OE (TDF / Homologated)

#### **4.1 Exhaust**

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

### 6.1 Differential

LSD is permitted.

The use of mechanical type Limited Slip Differential is authorized provided that it can be fitted in the series housing without any modification.

### 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 hose Braided hoses are allowed.

### 8.1 Suspension

Shock absorbers and Springs free, External shock canisters allowed.

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 the bodywork does not touch the ground when two tyres on the same side of the car are deflated.

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 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)

### 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 of Super Stock Cars Homologated / TDF will 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.

Removal of all elements between Air Filter Box and Resonator is permitted. Any ducting may be added to the front of the entry point of the air filter and must be within the Engine Compartment.

### 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 or carbon fiber.

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

#### Fiberglass Specification

Fiberglass must be minimum of 3mm thickness.

Fire Retardant Resin (FRR) must be used in Fiberglass making.

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

2018 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

**19.1 Roll Cage**

**Basic Structure**

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

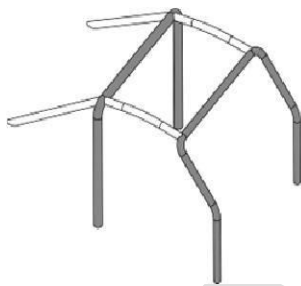
1 main rollbar + 1 front rollbar + 2 longitudinal members + 2 backstays + 6 mounting feet (Drawing 253-1)

or

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

or

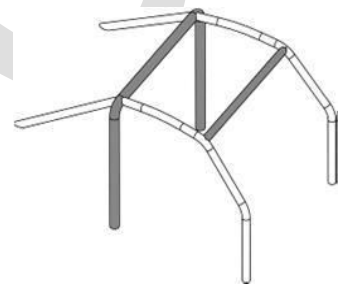
1 main rollbar + 2 lateral half-rollbars + 1 transverse member + 2 backstays + 6 mounting feet (Drawing 253-3)



253-1



253-2



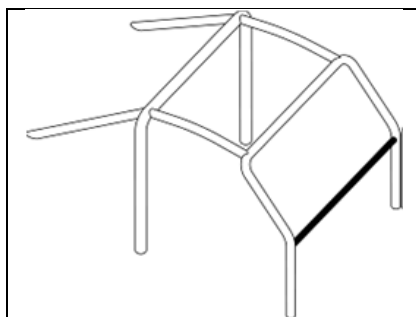
253-3

**Compulsory members and reinforcements**

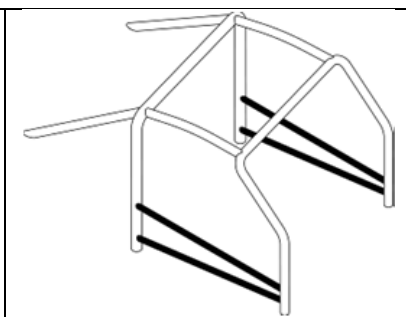
Cold drawn seamless unalloyed carbon steel tube (Containing a maximum of 0.3% of carbon) with a minimum tensile strength of 350 N/mm<sup>2</sup>

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

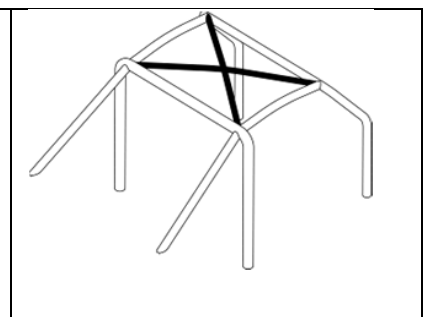
The basic minimum structural requirement as per Drawing 253-29 with side impact bars as in Drawing 253-11 and roof reinforcement Drawing as in 253-12. (Single Cross member is also allowed in Drawing 253-12).



253-29



253-11



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 front aprons above the front cross member (the front jacking point) provided it is removable and mounted only by means of bolt & nuts.

**22.1 Air Filter**

Air Filter Free

Plumbing for Air filter Free

Mounting of Air filter is Free

Location must be within the engine bay

Fitment does not entail the modification of other components and Body work

**Note:**

Other than the modifications permitted expressly above should follow Specific Regulations for Production Cars Group N 2018.