



The Federation of Motor Sports Clubs of India

2021
Specific Technical Regulation
For
INRC-2
(Rallying)



Federation Internationale de l'Automobile

Federation Internationale de Motocyclisme

Indian Olympic Association

Please Note- Changes for the 2021 Technical Regulations below are in **Bold, Italic and Underlined.**

The Following Articles of 2021 FMSCI Appendix J- RALLYING are applicable

Article.251 – Classification and Definitions

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

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

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

All modifications permitted in this Group will be in addition to the modifications permitted in INRC -3 regulations

It is permitted to use after-market replacement parts as long as such parts are in conformity with the homologated parts (including of Optional Variants in Group N) in ALL ASPECTS except the brand name. Such parts should have no additional functions relative to the original parts.

Eligible vehicles

Series production Indian vehicles sold on or after 01/01/2010 in India.

NA CARS UPTO 2050CC. For E.g. Mithubishi Cedia was sold from 2006 to 2011 so it is eligible for this class.

Only vehicles with Homologation / TDF (Technical Data Form) are allowed.

1.1 Engine

Re boring of 0.5mm maximum is allowed in relation to the original bore, even if the capacity class limit is exceeded (Crossing the limit of 2000cc, is permitted, provided that this limit was crossed only by means of re boring to a maximum of 0.5mm over the homologated bore).

Engine mounts free not the numbers and mounting point on the monocoque to remain as OE

2.1 Piston

Free

The distance between Gudgeon Pin centre to Top of the Piston should remain as per Homologation / TDF.

Forged Piston allowed.

Minimum weight of the piston remains as per Homologation / TDF.

3.1 Compression Ratio- FREE

4.1 Cylinder Head

Cylinder head Porting is allowed but adding of materials is not allowed.

Planning of the Cylinder head is allowed.

5.1 Connecting Rod

Modification of Connecting Rod / Cylinder Block is permitted to provide Oil Squirters

6.1 Gasket

Free

7.1 Camshaft

Standard as per Homologation / TDF

Adjustable CAM pulley is permitted.

8.1 Lubrication

The fitting of an oil radiator outside the ***Engine compartment is permitted so long (FRONT BUMPER) as*** it does not protrude beyond the general ***front*** perimeter of the car seen from above, without modifying the bodywork.

Fitting an oil radiator in this manner does not allow the addition of an enveloping aerodynamic structure.

The fitting of baffles in the oil sump is authorized.

9.1 Intake Manifold

Free

But the Mounting points of the Intake Manifold should be same as OE.

Fitment dose not entail the modification of other components, (Ex. Fire wall & Bonnet).

If the injectors are located in / through the inlet manifold, it is allowed to relocate the injectors in the inlet manifold.

10.1 Throttle Body

Numbers has to be same as Homologation / TDF. **Diameter of the throttle Valve is free**

Vehicle equipped with Motorized Throttle body may change to mechanical Throttle body wise versa.

11.1 Exhaust

Free

Fitment dose not entail the modification of other components.

The Exit of the Exhaust pipe shall be at the Rear of the Car below the Bumper.

There should be at least one muffler present in the system

12.1 Gear Box

Gear Box housing must be AS PER Homologation/TDF

Gear Ratios Free, Synchronized or Non Synchronized (Dog Box)

Final Drive Ratio Free

Mechanical type Limited Slip Differential (LSD) is authorized provide that it can be fitted in series Housing.

Gear selecting Grid pattern on series model ***must*** be retained.

Removal of material from the OE housing is permitted to accommodate fitment

12.2 Clutch Assembly - FREE

13. ECU and wiring system

Free

Modification of the Wiring Harness is permitted.

Addition of an oil pressure sensor in place of an oil pressure switch is permitted even though it may not be homologated.

The OE Lambda / Oxygen sensor may be replaced with a wider band sensor and is free

14. In addition, the following are permitted

1. Dashboard must remain but all accessories including glove box, centre console can be removed.
2. All plastic claddings inside the passenger compartment can be removed.
3. Suspension Top mount mounting on the chassis is free but point of articulation remains the same.
4. Radiator mounts free
5. Removal of the complete AC system is permitted, however **if** the engine pulley is a single unit which drives the AC as well as other components, it must be retained

6. The mechanical handbrake may be replaced with a hydraulic system but in this case a diagonal brake circuit (X shape) or the original system is mandatory. Dual rear handbrake(standard one and Hydraulic system)is permitted
It is permitted to modify the position of the hydraulic handbrake system, provided that it remains on the central tunnel.
7. Strengthening of knuckles and lower arms with addition of material with or without creating hollow section is allowed.
8. Suspension Top mount mounting on the chassis is free but point of articulation remains the same
9. **AFTER MARKET BRAKE ROTORS ARE ALLOWED EVEN IF THEY ARE SLOTTED OR DRILLED . THE MASTER CYLINDER, FRONT BRAKE DISCS AND THE CALIPER ARE FREE .**
- **NOTE- All safety wear for this Group shall be as per FIA /FMSCI SAFETY regulations**

16.1 Bonnet Vents/ *Scoops*- **FREE**

17-Additional modifications permitted.

- It is permitted to replace the OE Bumpers with Fibre glass replicas, provided the shape is identical to the OE component.
- It is permitted to replace the OE door rear view mirrors with any aftermarket mirrors, so long as the Rear view visibility is equal to or more than the OE mirrors.
- 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.
- **BUMPERS /GRILLS/HEADLIGHTS AND FENDER INNER LININGS MAY BE INTERCHANGED WITH DIFFERENT MODELS OF THE SAME CAR.**
- **11. COOLING DUCTS/VENTS ARE PERMITTED WITHIN THE BUMPER AND ON THE BONNET TO ENABLE COOLING/VENTING OF THE ENGINE COMPARTMENT AND BRAKES**

Note: Other than the modifications permitted expressly above should follow 2020 Group N Technical Regulations FMSCI. Art 254

****END****

