



The Federation of Motor Sports Clubs of India

National Sports Federation recognized by the Government of India

2023 Specific Technical Regulations for INRC 2

Member of



Federation Internationale de l' Automobile

2023 Specific Technical Regulations for INRC 2

The Following Articles of 2023 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)

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

All modifications permitted in this Group will be in addition to the modifications permitted in INRC-3 Specific Technical Regulations

It is permitted to use after-market replacement parts as long as such parts are in conformity with the homologated parts vis dimensions and working principle(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.

Art.1-Eligible vehicles

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

For E.g. Mitsubishi Cedia was sold from 2006 to 2011 so it is eligible for this class.

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

Art.2-Classes

Naturally Aspirated Cars up to 2100cc

Factory Super charged/Turbo charged Cars up to 1400cc

Art.3-Minimum Weight & Ballast

Normally Aspirated Engine	Super Charged Engine	Minimum Weight
Over 1390cm ³ and up to 1600cm ³	Over 927cm ³ and up to 1067cm ³	1030 Kgs
Over 1600cm ³ and up to 2000cm ³	Over 1067cm ³ and up to 1333cm ³	1080 Kgs
Over 2000cm ³ and up to 2100cm ³	Over 1333cm ³ and up to 1400cm ³	1130 Kgs

This is the real weight of the car, with neither driver nor co-driver nor their equipment and with a maximum of one spare wheel.

When two spare wheels are carried in the car, the second spare wheel must be removed before weighing.

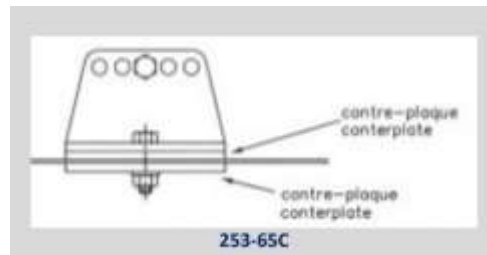
All the liquid tanks (lubrication, cooling, braking, heating where applicable) must be at the normal level foreseen by the manufacturer, with the exception of the windscreen wiper, headlight wiper, fuel and intercooler water spray (if homologated) tanks, which must be empty.

The minimum weight of the car may be checked with the crew on board (driver + co-driver + their full equipment), as the minimum weight defined in Art.3 tabular column + 160 kg. Further, the minimum weight defined in Art.3 tabular column must also be respected.

It is permitted to complete the weight of the car by adding one or several ballast, provided that they are safely secured, visible and approved by the scrutineer. Holes in the mounting retainers must be provided for sealing.

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 40cm² for each fixing point.

The Organisers/Technical Delegate have the right to weigh the cars at any time during the event.

Art.4-Engine

Re boring of 0.5mm maximum is allowed in relation to the original bore **as specified in the Homologation/TDF**, even if the capacity class limit is exceeded (Crossing the limit of **2100cc in NA cars & 1400cc in Super charged cars is permitted**, provided that this limit was crossed only by means of reboring to a maximum of 0.5mm over the homologated/TDF bore).

Engine mounting material and shape is FREE.

The numbers and mounting point on the monocoque to remain as OEM

Art.4.1-Piston

Only OEM/After market pistons are allowed provided they confirm to Homologation/TDF

Art.4.2-Compression Ratio

FREE

Art.4.3-Cylinder Head

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

Art.4.4-Connecting Rod

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

Art.4.5-Gasket

FREE

Art.4.6-Camshaft

Standard as per Homologation / TDF data.

Adjustable CAM pulley is permitted.

Art.5-Lubrication

The fitting of an oil cooler 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 cooler in this manner does not allow the addition of an enveloping aerodynamic structure.

The fitting of baffles in the oil sump is authorized.

Art.6-Intake Manifold

FREE

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

Fitment does 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.

Art.7-Throttle Body

Numbers has to be same as Homologation / TDF.

Diameter of the throttle Valve is FREE

Vehicle equipped with Motorized Throttle body may be changed to mechanical Throttle body or vice versa.

Art.8-Exhaust

FREE

Fitment does 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

Art.9-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 OEM housing is permitted to accommodate fitment

Art.10-Clutch Assembly

Clutch FREE not their numbers (Clutch plate)

Art.11-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 OEM Lambda / Oxygen sensor may be replaced with a wide band sensor and is FREE

Art.12-In addition, the following are permitted

1. Dashboard must remain but all accessories including glove box, center 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. Strengthening of lower arm bushing is permitted by means of inserting a sleeve and the same can be welded to the lower arm. Bush material rubber or synthetic is allowed. Rose joints/Rod end bearings are not 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 disc and the caliper are FREE. Its allowed to disable the automatic rear brake adjuster.
10. It is permitted to alter/modify the fenders for the purpose to accommodate the tyre profile with in the same.
11. Camber shims are allowed only at rear between stub axle and rear axle assembly.
12. Strengthening of OEM tie rod is allowed.
13. Fixing of Dead pedals are allowed.

NOTE- All safety wear for this Group shall be as per FIA /FMSCI SAFETY regulations

Art.13-Bonnet Vents/ Scoops

FREE

Art.14-Additional modifications permitted

- It is permitted to replace the OEM Bumpers with Fibre glass replicas, provided the shape is identical to the OEM component.
- It is permitted to replace the OEM door rear view mirrors with any aftermarket mirrors, so long as the Rear-view visibility is equal to or more than the OEM 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 / Grill / Headlights and Fender Inner Linings may be interchanged with different models of the same car.
- Cooling Ducts / Vents are permitted with in the Bumper and on the Bonnet to enable cooling / venting of the Engine compartment and Brakes.
- Plastic and sound proofing parts may be removed from inside the wheel arches. These parts may be replaced made of aluminium, plastics or composite materials and the shape is FREE.

Art.15-Safety Equipment

As per FMSCI Regulations Art 253 Safety Equipment & 2023 FMSCI Safety Requirements for 4W.

Art.16-Roll Cage

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

Art.17-Turbo Charger

Only OEM/After market Turbo charger are allowed provided they confirm to Homologation/TDF

Inter Cooler, type and its plumbing is FREE

If the Air Inlet housing of the Turbo charger (Inner Diameter) is below 33mm Restrictor is not required, if its more than 33mm Restrictor is mandatory by respecting Art 254.

Note: Other than the modifications permitted expressly above should follow 2023 Group N Technical Regulations FMSCI Art 254

Note: If any ambiguity or missing data from the Homologation / TDF form, the FMSCI may source any component from the OE manufacturers to compare dimensions.

NOTE: Changes for the 2023 Technical Regulations are highlighted in Yellow

****END****