



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

National Sports Federation recognized by the Government of India

# **2023 Specific Technical Regulations for INRC 3**

Member of



Federation Internationale de l' Automobile

## 2023 Specific Technical Regulations for INRC 3

### 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.

Changes to the above Articles specific to 2023 Rallying are reproduced below:

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

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

#### Art.2-Classes

Naturally Aspirated Cars up to 2050cc

#### Art.3-Minimum Weight

1. Cars must have at least the weight appearing on the Homologation/TDF Form.
2. This is the real weight of the empty car (without persons or luggage aboard) without tools or jack, and with a maximum of one spare wheel.
3. When two spare wheels are carried in the car, the second spare wheel must be removed before weighing.
4. 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 or headlight wiper, brake cooling system, fuel and water injection tanks, which must be empty.
5. Additional headlights which do not appear on the Homologation/TDF form must be removed before weighing.
6. In rallies only, the minimum weight of the car (under the conditions of Article 3(point 1 to 5) with crew (driver + co-driver + the full equipment of the driver and co-driver) must be : Minimum weight defined in Article 3(point 1 to 5) + 160 kg. Furthermore, the weight defined in Article 3(point 1 to 5) must also be respected.

#### 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 2050cc is permitted, provided that this limit was crossed only by means of reboring to a maximum of 0.5mm over the homologated/TDF bore).

Reboring is permitted up to 0.5mm

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

#### Art.5-Carburettors / MPFI

Air filters FREE

All components up stream of the carburettor or the throttle body are FREE.

**Art.6-Exhaust**

Free. (Exhaust manifold to the exit is free.) However the Exhaust ports in the cylinder head should remain as provided by the manufacturer and there should be at least one muffler present in the system

The location of the exit of the exhaust pipe is as per Homologation/TDF.

The exhaust system must not be provisional

Exhaust gases may only exit at the end of the system

These liberties must not entail any bodywork modifications and must respect the Indian Motor Vehicle Act.

**Art.7-Gear Box**

As per Homologation / TDF

**Art.8-Differential**

The use of a mechanical type limited slip differential is authorized, provided that it can be fitted in the series housing.

**Art.9-Clutch Assembly**

The Disc is FREE, including the weight, with the exception of the number of plates.

The diameter of the clutch Disc is FREE

**Art.10-ECU and Wiring**

FREE

Addition of sensor is not permitted.

The OEM Lambda / Oxygen sensor may be replaced with a wide band sensor and is FREE

**Art.11-Suspension****Art.11.1**

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.

Suspension Top mount mounting on the chassis is free but point of articulation remains the same.

**Art11.2-Shock Absorber**

- a) For rallies taking place in India, a silent block may be replaced by a Uniball joint even if the shock absorber has a guiding function.
- b) Front suspension top mounting fitting of uniball joint is permitted and modifications required in the strut tower to accommodate the uniball joint may be allowed.
- c) To facilitate fitment of larger dimensioned top mounts of the rear shock absorber, enlarging central bore of the top plate in the chassis is permitted as long as the mounting points remain unchanged. Minor machining to the lower arm to accommodate gas hose of the rear shock absorber canister is also permitted.

**Art.11.3-Ride Height**

For asphalt rallies only, the ride height of the car may be reduced by a maximum of 25mm from the homologated/TDF ride height of the car.

**Art.12-Wheels**

Wheel size 1 inch more in width is permitted and 1 inch more rim diameter than the homologated/TDF size is permitted

### Art.13-Braking System

If the anti-lock braking system (ABS) is disconnected or removed, the use of a mechanical rear braking distributor is authorized.

After market Brake Rotors are allowed even if they are slotted or drilled so long as their dimensions are the same as the Homologated/TDF size.

In the case of a car fitted with servo-assisted brakes, this device may be disconnected or replaced.

Its allowed to disable the automatic rear brake adjuster.

### Art.14-Handbrake

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.

### Art.15-Bodywork

Strengthening of chassis is permitted by suitable welding process, collateral addition of material deposit in the process of welding is allowed.

### Art.16-Exterior

Windshield washer container is FREE, it is permitted to relocate the windshield washer water container within the space under the bonnet.

### Art.17-Heating System/ AC system

- Read as: The original heating equipment may be retained.
- Using of a shorter drive belt after removal of a/c compressor is permitted.
- Removal of the complete AC/heating 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 as OEM

### Art.18-Fuel Combustive

Fuel FREE

### Art.19-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. Camber shims are allowed only at rear between stub axle and rear axle assembly.
4. Strengthening of OEM tie rod is allowed.
5. Fixing of Dead pedals are allowed.

### Art.20-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/repared/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.
- It is permitted to alter/modify the fenders for the purpose to accommodate the tyre profile with in the same.
- 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.21-Safety Equipment**

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

#### **Art.22-Roll Cage**

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

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***

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