

RC RALLY ~ RALLY OF REALMS

OFFICIAL RULE BOOK (2026 EDITION)

1. EVENT OVERVIEW

RC Rally Offroad 2026 is a competitive and skill-based racing event where participants design, build, and race their own custom-made remote-controlled offroad vehicles across a challenging obstacle circuit. The event focuses on engineering creativity, vehicle durability, driving precision, and obstacle mastery.

This rule book contains **all guidelines, specifications, procedures, penalties, and safety rules** to ensure a fair, transparent, and confusion-free experience for all participants.

2. VEHICLE DESIGN SPECIFICATIONS

All participants must follow the standards below. Any major violation leads to disqualification.

2.1 Build Requirements

- Cars **must be custom-built** using generic components.
- **Ready-to-run (RTR) / ready-to-assemble commercial RC cars are strictly not allowed.**
- Teams may use **motors, ESCs, batteries, transmitters, receivers, chassis, wheels, and suspension** of their choice as long as the car is not an RTR kit.

2.2 Dimensions

- **Weight:** 3.5–4.5 kg (maximum 5 kg)
- **Length:** 35–50 cm
- **Width:** 18–25 cm
- **Height:** 15–20 cm
- **Wheelbase:** 25–30 cm

2.3 Power Source

- Only **electric motors** are allowed.
- **Nitro, fuel-based, or IC engines are prohibited.**
- Batteries must be safe, reliable, and capable of powering the car for the entire round.
- **Mid-race charging is not allowed.**

2.4 Control System

- Transmitter/receiver range must be **minimum 100 meters.**
- FPV cameras **are allowed but optional.**
- Drivers may run along the track.

2.5 Durability Requirement

- Cars must withstand **gravel, rocks, jumps, and uneven terrain.**
 - Breakdown during the race leads to **disqualification f or that attempt.**
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3. TEAM STRUCTURE

- Each team may consist of **1–4 members.**
 - Only **2 members** are allowed inside the arena for checks and adjustments.
 - Each team must choose **1 driver** and **1 pit assistant.**
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4. EVENT FORMAT

The event consists of ONE **competitive round only:**

ROUND 1 – Time Trial &Obstacle Endurance Run

- All teams race one-by-one.
- Each car must complete **one lap** with additional obstacles.
- Organizing team will **reset the car** if it overturns.
- Time penalties apply for obstacle faults.

5. TRACK & OBSTACLE DETAILS

Participants will face a mixed-surface offroad track containing:

- Ramps
- Rocky patches
- Gravel zones
- Bumps / speed breakers
- Slalom zig-zag cones
- Sand or grass sections
- Narrow bridge or gate
- Slippery zone
- Hairpin turns

Obstacles will be designed to test **control, steering, suspension, power, and durability**.

6. PENALTIES & DISQUALIFICATIONS

To ensure fairness, the following rules apply:

6.1 Time Penalties

Penalty (in seconds) will be added for:

- Hitting cones/markers
- Skipping or partially completing an obstacle
- Crossing boundaries or “short-cuts”
- Unsafe or reckless driving
- Minor rule violations during vehicle inspection

Penalty values (e.g., +5s, +10s) will be announced before the race.

6.2 Disqualification Conditions

Teams will be disqualified if:

- Using RTR / commercial RC cars
- Car exceeds dimension/weight limits
- Using nitro / fuel engines

- Tampering with opponent's car
 - Running inside the track during race/stepping inside boundary set
 - Physical interference with the car without permission
 - Battery or wiring hazards found during checks
 - Intentional collisions or sabotage
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7. RACE DAY PROCEDURE

7.1 Reporting & Inspection

- Teams must report the arena track **30 minutes before event start**.
- Cars undergo **dimension, weight, battery & safety check**.
- Teams finishing checks early get priority for Round 1 attempts.

7.2 During the Race

- Drivers must remain within the **designated control area**.
- No touching the car unless organizers permit it.
- Organizers may stop the race if hazardous conditions arise.
- Judges' decisions regarding timing and penalties are **final**.

7.3 Post-Race

- The entire race will be recorded.
 - Incident reviews (collisions, penalties) will be done using footage.
 - Final results released **within 2-3 hours after completion of race**
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8. JUDGING CRITERIA

Participants will be evaluated on:

8.1 Lap Time

Fastest clean lap (no overturn, no major penalties).

8.2 Obstacle Handling

Smooth navigation without collisions or resets.

8.3 Driving Skill

Consistency, control, and accuracy.

8.4 Vehicle Durability

Car must complete the course without breakdown.

8.5 Rule Compliance

Full adherence to design rules, safety rules, and race conduct.

9. SAFETY RULES (STRICT)

- **No physical contact** with the car during racing.
 - No running inside the track.
 - Only approved, non-damaged batteries allowed.
 - Cars with exposed wiring or loose batteries will not be allowed.
 - Reckless driving causing danger leads to disqualification.
 - Organizers reserve the right to stop or pause the race in emergencies.
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10. ORGANIZER RIGHTS

The event committee reserves the right to:

- Modify obstacles/track based on conditions.
 - Impose penalties based on fairness and judgement.
 - Remove participants who fail to follow safety instructions.
 - Take final decisions regarding disputes.
 - Organizers may change any rule anytime in case of any need.
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11. CONTACT & QUERIES

All participants may reach out to the Event Head or core volunteers for doubts **before the event day**. No design-related questions will be answered during the race.

Event Head : ABHISHEK KUMAR

Contact no: 7903080075

We wish all participants the best of luck! Build strong. Drive smart. Rally hard.