

FASTEST LFR

[LINE FOLLOWER]

RULES & REGULATIONS

ROBOVISIONÄR'26 // MISSION M-01 // 24-25 SEPTEMBER 2026

Pure velocity. Sub-20-second laps on a competition-grade track.

ENTRY FEE	TEAM	EXTRA MEMBER	PRIZE POOL
₹850	1-2	+₹250	₹30,000

// SECTION 01

GENERAL RULES

- 1.1** All robots must be fully autonomous and self-contained. The robot must carry its own power source, controller and sensors on board, with no wires or tethers to the team.
- 1.2** No wireless communication between the robot and the operator is allowed at any time during a run. This includes Bluetooth, Wi-Fi, RF modules and IR remotes.
- 1.3** The robot must be able to steer and turn on its own to negotiate every feature of the track. The drive configuration is left to the team.
- 1.4** Once the robot is started, no team member may touch it until the run ends or a restart is called.

// SECTION 02

SIZE AND WEIGHT

- 2.1** The robot must fit within a box of 30 cm × 30 cm × 30 cm (L × W × H) and must stay within these dimensions at any point in time.
- 2.2** Maximum weight is **5 kg** including batteries. A tolerance of 5% is allowed.
- 2.3** The robot may be circular or rectangular in design.

// SECTION 03

SAFETY AND ELECTRONICS

- 3.1** Batteries must be sealed and of a safe, immobilised electrolyte type — gel cell, lithium, NiMH, NiCad or dry cells.
- 3.2** The maximum voltage on the robot must not exceed **16.8 V DC** at any point.
- 3.3** Robots must not use infrared-reflecting materials on the outside. Any paint must have a matte finish. Minor reflective parts are allowed if they do not affect other robots.
- 3.4** Robots must not produce magnetic interference for other robots on the field.

// SECTION 04

CONTROL SYSTEM

- 4.1** The robot must be autonomous for the entire duration of every run. All decision-making must happen on board.
- 4.2** The only permitted human action is placing the robot at the start point and pressing its onboard start switch, with the referee's consent.

// SECTION 05

ORIGINALITY

- 5.1** Pre-made robots are not allowed.
- 5.2** The design and construction must be primarily the team's own original work. Standard off-the-shelf components such as microcontrollers, motors, drivers, sensors, wheels and batteries are permitted.

// SECTION 06

THE TRACK

PARAMETER	SPECIFICATION
Arena dimensions	7.5 m × 7.5 m
Total track length	55 – 60 metres (approximately)

PARAMETER	SPECIFICATION
Surface	White, with the racing line marked in black
Line width	25 mm
Track features	May contain crossed, curved or discontinuous black lines

// SECTION 07

START AND RESTARTS

- 7.1** Each team is given a total of **5 minutes** on the arena. The robot must complete the track within this window.
- 7.2** The robot is placed at the starting point with the consent of the referee.
- 7.3** A restart may be requested if the robot does not follow the line, stops halfway, or loses direction or the black line.
- 7.4** There is **no limit** on the number of restarts, as long as the 5 minutes have not expired.
- 7.5** At every restart the robot must be repositioned back at the start point.
- 7.6** Reprogramming the robot, or adding or removing any part, is not allowed during the run. Adjusting the sensors is permitted with the consent of the referee.
- 7.7** The **RACE CLOCK** (run time) resets to zero on every restart. The **COMPETITION CLOCK** (the 5-minute maximum access time) keeps running during all restarts and does not stop for any reason.
- 7.8** A team's result is the time of the fastest run completed from start to finish without a restart. The team with the lowest time wins.

// SECTION 08

JUDGES' AUTHORITY

- 8.1** The judges' reading of these rules is **final and binding**. Where a rule is unclear, silent, or disputed, the judges decide how it applies, and that decision holds for the rest of the event.
- 8.2** Judges may **modify, add to, relax or clarify any rule** at any point — before, during or after a round — where the arena, the field of entries, a safety concern or the conduct of the event calls for it. This includes rules printed in this book.

- 8.3** Every such decision is made on a **fair and equal basis**. A ruling given for one team applies to every team in the same situation, and no change will be made to favour or penalise a particular entry. Judges will state the reasoning on request.
- 8.4** Changes take effect from the moment they are announced. They are not applied backwards to completed runs or matches unless every affected team re-runs under the new ruling.
- 8.5** Raise any question about a rule with the organisers **before your run or match ends**. Nothing is reopened once the result is declared.

// IN SHORT

You get 5 minutes on the arena. Restart as many times as you need. Your score is the **fastest single lap you finish without restarting** — not the total time spent on the arena. Judges have the final read on every rule and may adjust one during the event — always announced, and always applied equally to every team.

// CONTACT

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