# Line Follower

**ABOUT THE EVENT**

The Line Follower Challenge is all set to test your autonomous robot building skills. The task at hand is to build a basic LFR(line following robot) which can follow lines through sharp edges, curves and gaps, and reach the finish line in the shortest possible time.

**STAGES**

The event is conducted in 2 stage

1) Zonal level will be held in Comedkares Innovation Hubs across Karnataka.
2) The State Level finale will be held in Bangalore.

**ROBOT SPECIFICATIONS**

- The participating bots must be wireless and autonomus. It can be circular / Rectangular in style. Bot must fit inside a box of 20 centimeters length, 20 centimeters wide and 20 centimeters height at any point in time.
- Maximum weight should not be more than 5 Kgs including battery, however, a tolerance of 5% in weight is acceptable. Participants need to ensure:
- Batteries must be sealed, immobilized electrolyte type (gel cell, lithium, NiCad, or dry cells).
- The electric voltage anywhere in the machine should not be more than 12V DC at any point in time for each robot.
- Infrared light-reflecting materials must not be used on the outside. If robots are painted, they must be painted matte. Minor parts that reflect infrared light could be used only if other robots are not affected. Robots must not produce magnetic interference for other robots on the field.

- If a team claims that their robot is affected by the other team's robot in any way they must show proof/evidence of the interference. Any interference must be confirmed by a Referee if a claim is placed by the other team.
- The robot must be autonomous.
- Robots must be constructed and programmed in a way that their movement is not limited to only one direction and must move in all directions.
- No wireless communication between bot and operator will be allowed. Bluetooth, RF Module, etc not allowed on bot.
- Any robotic parts/building material can be used until the robot meets the above specifications and if the design and construction are primarily the original work of the team as ready-made robots are not allowed to compete in the competition.

**CONTACT DETAILS**

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**REGISTRATION DEADLINE**

Registration Deadline
11 Oct 23, 11:59 PM

**REGISTRATION FEE**

Every team has to pay a registration fee of ₹500/- in order to register successfully.

## PRIZE

**ZONAL LEVEL**

- INR 3,000 (1st Prize)

- INR 2,000 (2nd Prize)
- INR 1,000 (3rd Prize)

**STATE LEVEL**

- INR 10,000 (1st Prize)
- INR 7,000 (2nd Prize)
- INR 5,000 (3rd Prize)