



# Robo Race



## INTRODUCTION

Boost your speed and ride a race, fasten your seatbelts for this fast and furious event which would pull you towards the edge of your seats. Bot must be able to overcome the crests and troughs of the coarse course, embellished with all the commonplace hazards and hurdles. So, buck up your bot and get ready to enjoy the thrill of **BHAAG-ROBO-BHAAG!!!**

## CHALLENGE

### “MORE SPEED, MORE POWER WITH MINIMUM TIME”

Design a manually remote controlled wireless/wired ROBOT which is capable of running on the track, having capacity to cover maximum **distance** in shortest **time**, challenging the hurdles and be the **WINNER** of the event.

## RULES

- The machine should be controlled by a wireless/wired remote control mechanism.
- The machine (robot) should fit within the box of dimension 35\*35\*35cm.
- Machine should not weigh more than 4kg.
- Use of readymade lego kit is not allowed.
- The teams are requested not to use caster wheels as track may contain a bridge with gap in between.

## Batteries and Power

- ✓ Machine should be powered by battery or cell, use of IC engine is not allowed.

- ✓ Use of heavy equipment like compressors is banned.
- ✓ Chemicals, compressed gas and fuels, combustion power methods etc. are strictly prohibited.

However, commercial batteries like dry cell and lead acid are allowed to use.

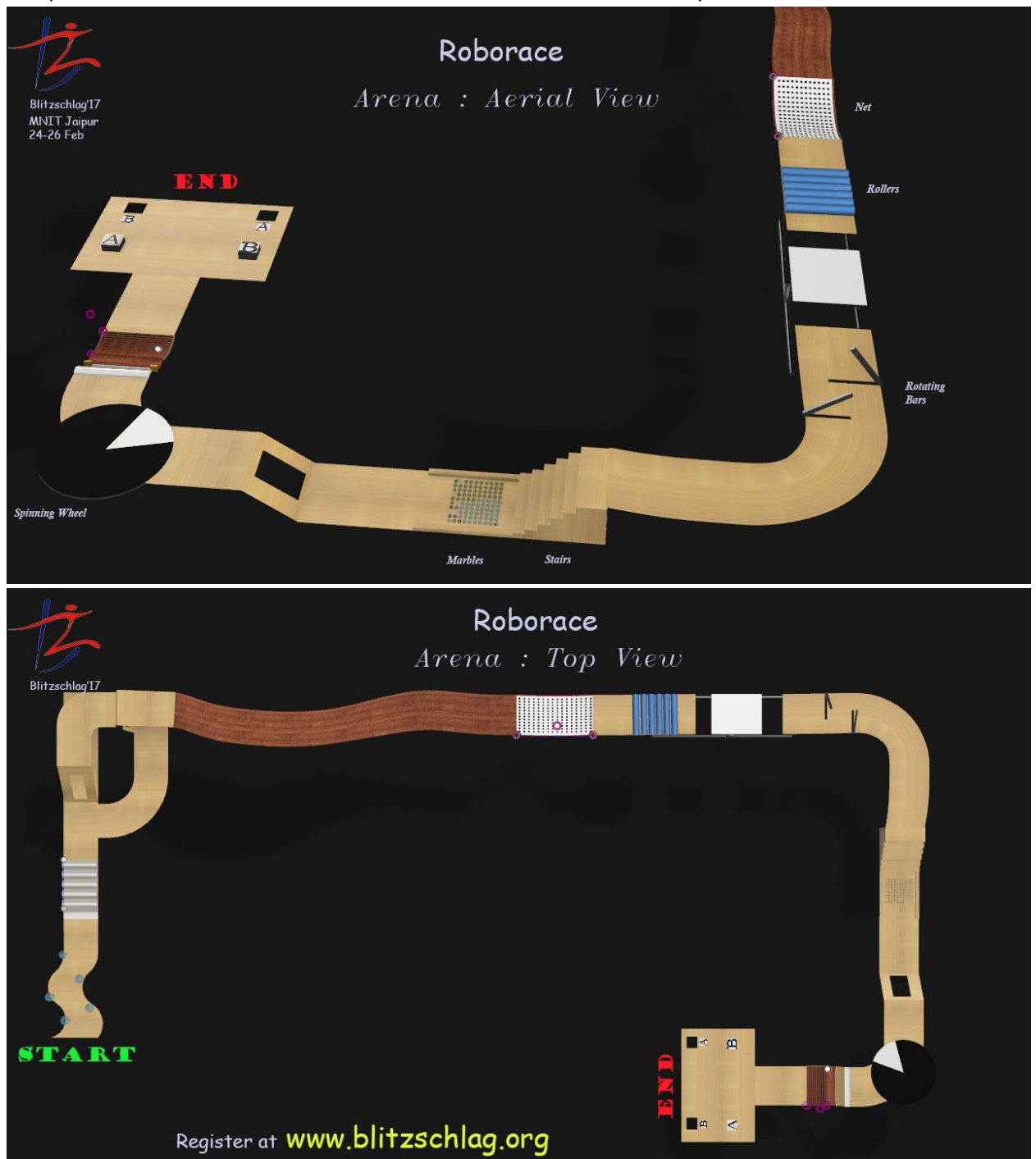
## Arena Description

- ❖ There will be abrupt angles.
- ❖ There will be certain obstacles in race track which will try to slow down the speed of the robot ex. Road cones.
- ❖ Arena will consist of speed breakers, marble/sand pits, rotating disc, see-saw, slotted ramp etc.
- ❖ The track will have a certain number of checkpoints. zsd



## SIDE VIEW

❖ Sample arena will be uploaded soon.



## Regulations

- This is racing event so fastest and more balanced robot will win.

- Each team can have maximum four members. Students from different institutes can form a team. **Register** your team at [www.blitzschlag.org](http://www.blitzschlag.org)
- The robot should not damage the arena if it happens then you have to pay for it.
- Unethical behavior could lead to disqualification. Event-coordinators have all the rights to take final decision for any matter during the event.
- Judge's decision will be considered final.
- Certificates will be given to all the participants.
- Race completed only in one round so you have only one chance to win.
- Maximum four hand touches are allowed and if a machine tumbles or halts or goes off the arena at any point on the track, one of the participants is allowed to lift it up and place it at last check point which is crossed by robot, but timer will not stop during this course of action.
- There are negative points if the robot touches any obstacle or goes out of the arena.

## Bonus Points

You will be given several opportunities while racing to gain bonus point and it will be declared at the time of event.

## General Rules

- ❖ The name of your machine must be prominently displayed on the machine.
- ❖ All teams should report in a given time, If not doing so, the team will be eliminated.
- ❖ Each member of the team must contain the identity card of his/her respected institute.

## Prizes

Prizes worth **12000** INR

## Contact us

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## SCHEDULE

Will be updated on website : [www.blitzschlag.org](http://www.blitzschlag.org)