



## MOTOR ZUNDUNG 007

### THE LABYRINTH

James Bond, while on a mission in The Labyrinth, has come across an arsenal of a group of people planning to spread terror in the world.

Now, he is ordered to blow off these weapons, leaving this terrorist organisation helpless without any firepower. But he intends to do this secretly. Moreover, the arsenal is well protected by the terrorists and so he needs to be diligent enough to accomplish the task given to him. Thus, he plans to send one of his latest gadgets, a new age Robot (designed by him), for taking on the terrorists' arsenal and completing this mission.

Will he succeed in doing so and maintaining harmony in the world? Be there with your bots to provide him a helping hand...

#### **PROBLEM STATEMENT**

Design a manually controlled 4-wheeler robot that can traverse through the given arena and accomplish the mission, overcoming the security robot(s).

#### **EVENT SPECIFICATIONS**

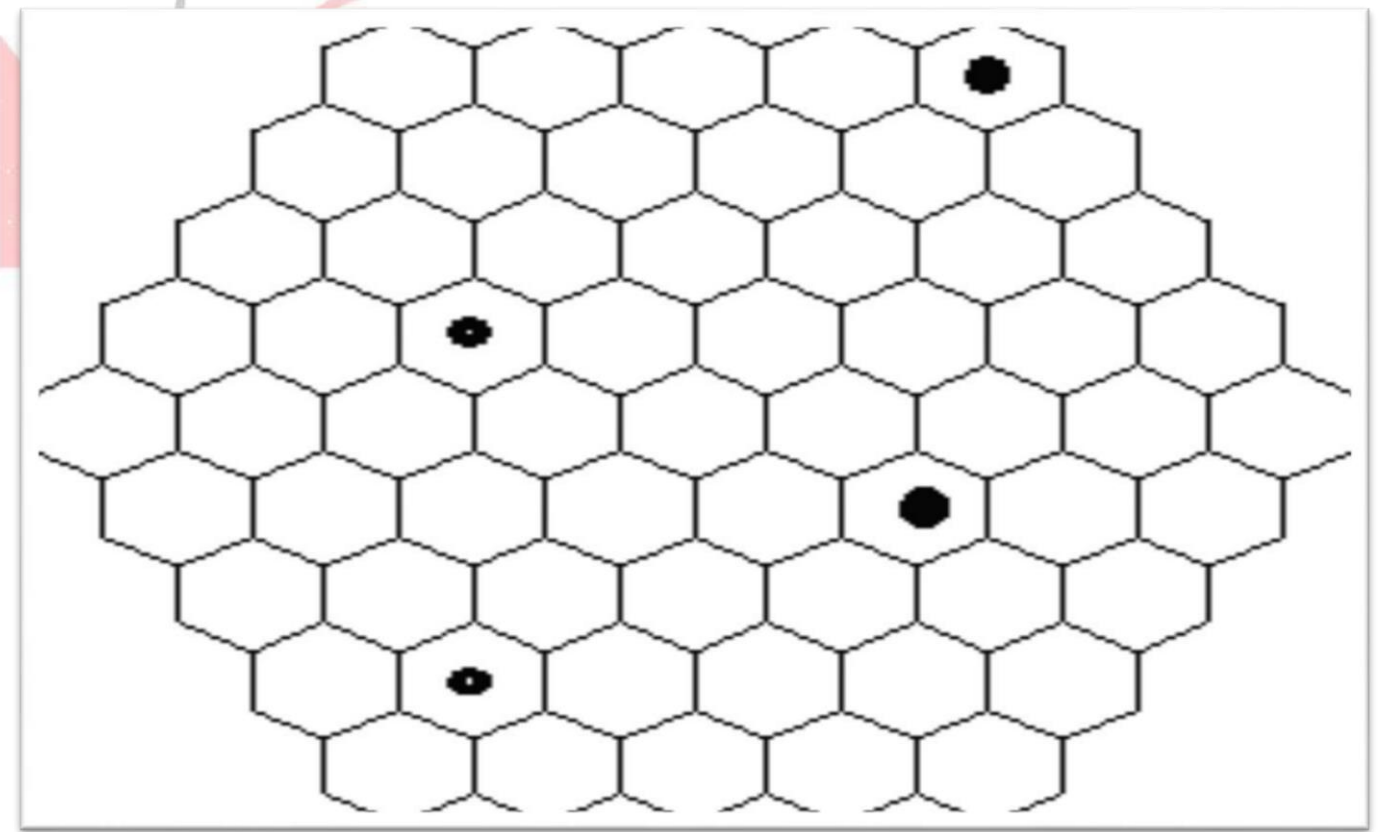
- Two teams will participate together in this round as opponents.
- One robot will be designated as the Bondsmate (attacker) and the other would be the Rogue (defender).
- A fixed number of Arsenals must be blown by the attacker in the stipulated time. One Arsenal may be blown only once.
- The defender must try to prevent the explosions by not letting the attacker move freely across The Labyrinth.
- Roles shall be reversed after one lap of time. And the same procedure will be repeated with the new roles.
- The number of Arsenals blown/saved would be the criteria for judgement with appropriate penalties and bonuses.

## **ARENA SPECIFICATIONS**

- Arena dimensions: 300cm X 300cm (tentative). □ Size of parking box: 30cm X 30cm.

## **USEFUL TIPS:**

- ✓ This event requires a simple 4 wheeler robot. The simpler the robot, the better are your chances.
- ✓ The driving skills are on a test in this event, so practice hard to have absolute command over your bot.
- ✓ Don't make the bot too weak. Ensure the strength to be enough to endure head-on collision with other similar bots.



## **ROBOT SPECIFICATIONS**

- Robot size: 25cm X 25cm X 20cm (length X breadth X height).
- Robot may be wireless or wired remote controlled.
- Use of readymade kits (LEGO Kits) is not allowed.
- The power supply used can be a maximum of 12V DC and 2A rated throughout the competition.

- Contestants using battery are required to bring batteries on their own.
- Power of 220V max will be supplied for charging for on board power supply.
- Use of AC supply for the robot is strictly prohibited

## **JUDGING CRITERIA**

- The basic criterion is the total points scored at the end of the round, depending on time and penalties.
- In case of any dispute judges' decision will be final and binding. The judges also hold the right to disqualify any team in case any of violation of any rules.

## **GENERAL RULES**

- Open for all years.
- A team may comprise of not more than 3 members.
- Students from different institutions can form a team.
- At the beginning, the team has to place their bots at the starting point. The game co-ordinator will inform when to start the bot.
- No direct human interference to the robot would be entertained after starting of the event and may lead to disqualification.
- Intentional damaging of arena will also lead to disqualification.
- Candidates can register to the event online (recommended)/ on the spot.
- The organizers reserve all rights to change any or all of the above rules as the need arises.
- The architecture of the robot cannot be changed after or during any of the rounds, unless it sustains any serious damage.

## **Contact:**

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\*\*\*The detailed problem statement can also be downloaded from the website\*\*\*

[www.motorzungdung.in](http://www.motorzungdung.in)