

# BLOCK-0-SORT'14

## RULES AND REGULATIONS:

1. Board size: 170x160 cm<sup>2</sup> (FOR ONE TEAM)
2. Material: Plywood
3. Surface: Sun mica
4. Height of edges: - 15 cm from board surface
5. Stand Position: - Robot should fit into a cube of 20 x 20 x 20 cm<sup>3</sup>.
6. Working Condition: - Robot should fit into a cube of (LxBxH) 25 x 25 x 25 cm<sup>3</sup>.
7. ROBOT-TYPE:-Mechanical robots with simple dc non-geared motors.
8. Team strength: 4 Members

## Specifications:

- ?? There is no constraint on the weight of the robot.
- ?? The bot can be controlled by wired or wireless remote. If wired, the wire should not entangle and must remain loose all the time during the event.
- ?? The external wired remote control used to control the robot is not included in the size constraint.
- ?? The bot should not damage the arena in any case.
- ?? The power supply provided will be 220 Volts AC.
- ?? Each team can bring its own battery eliminators/transformers to run its robot.
- ?? The voltage rating should not exceed 12 Volts.

## General Rules:

- ?? Each team can have a maximum of 4 members.
- ?? Students from different colleges may form a team.
- ?? The judging criterion is based on the number of blocks placed and time.
- ?? The decision of judges will final and binding to all.
- ?? The organizers hold the right to change any rule during the game-play.
- ?? The event will be organized in two rounds:
  - I. Elimination (prelims) round
  - II. Final round(Teams qualifying the elimination round are allowed to compete in final round)
- ?? Teams must carry their valid ID cards of their college as well as their SPANDAN registration cards.

??Only one member is allowed to operate the robot.

??Readymade vehicles are not allowed, readymade parts like remote controls, tires, Motors can be used.

??Robot should have a name and the same should be mentioned on the bot.

??Teams will be addressed only by their robot names.

### **GAME PLAY:**

??The board will be as shown in the figure for level 1. The actual arena might differ slightly in dimensions and appearance.

??The game will be played between 2 opponent teams at a time. Both the robots will start from their respective start positions simultaneously.

??On the starting of game, first the robot will have to push/lift the Block in numerical order i.e. 1 to 5 which is already mentioned on the Block.

??Your task is to first place the Block no 1 in any of the 5 Pits and in this way you will have to place these 5 Blocks one by one in the given Pits.

(Note: Keep in mind the numerical order for placing the Blocks)

??While going for the first Block be cautious that your bot is not allowed to touch any other block, in case such thing happens a penalty of 3 sec will be there.

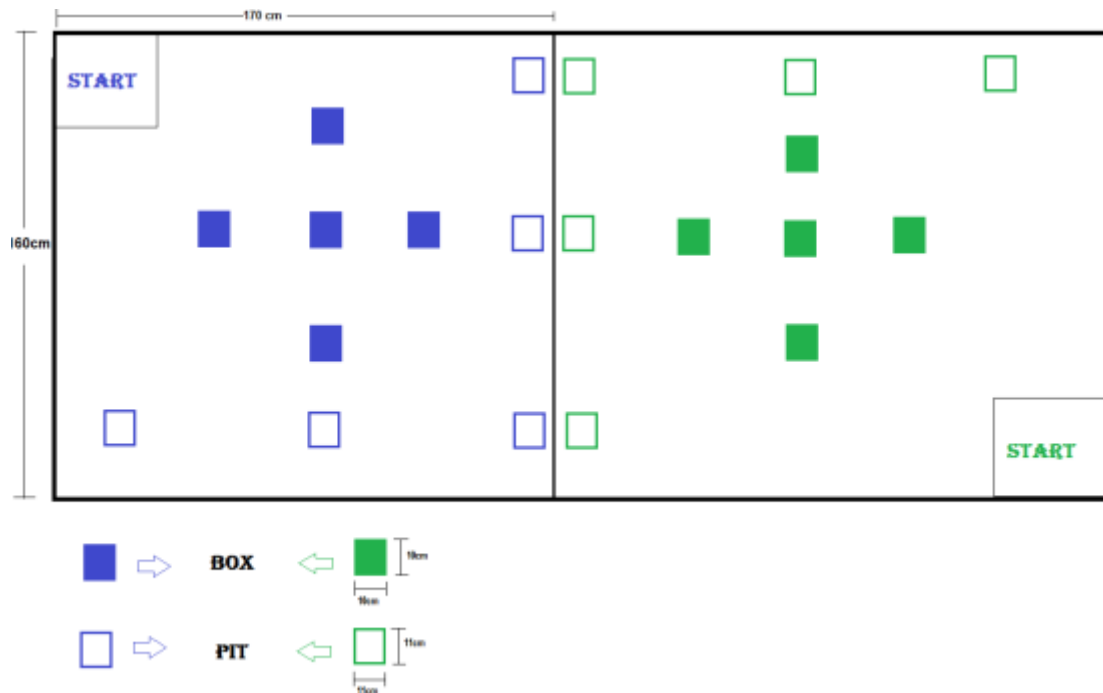
??Suppose you are in a condition that you want to touch any Block, in this condition also you will be charged a penalty of 5 sec.

??A complete match will be played for 5 min duration. At the end of the match, the team having the maximum number of blocks placed in minimum time will be declared as winner. In case of a tie a second round will be played.

??During the match, if there is any technical fault with any of the robots, the team can ask for a timeout of 3min. A team can go for a MAXIMUM OF 2 TIMEOUTS.

*Note: This is your elimination round, the final round problem (task) is going to be disclosed after the completion of the Elimination Round.*

## **Top view of Arena:**



## Registration:

All the participants in a team must be registered for SPANDAN-14. In addition to this, the team must register its robot name and phone numbers of each and every member at the ROBO desk. For further details contact:

### Coordinators:

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