Rover Reconnoiter !!

**Build a robust manual bot that can outlive the rocky, topsy-turvy terrain. Accept the challenge, strike the crags, endure the obstacles and reach the top.**

## ****OBJECTIVE****

Build a manual wired/wireless bot which can surpass all the obstacles and hurdles on its way and reach the final line in minimum time.

## ****BOT SPECIFICATIONS:****

 Before the start of match bot size should not be more than 350 mm X300 mm (length x breadth).However it can expand in any direction after the start of the match.

 Maximum allowed voltage : (D.C.) 24V.No external power supplied.

## RULES****:****

* 4 members per team are allowed and only 2 of them will be allowed on the track.
* The teams will not get any time for practicing on the track
* Team can touch the bot or take restart only three times with a penalty of extra 30 seconds each.
* If the bot touches the boundaries of the tracks a penalty of extra 5 seconds will be imposed.
* Each obstacle should be completed in less than 2 minutes else the team will be disqualified.
* Team may skip any two obstacles excluding the final obstacle.
* No repairing time will be given on the track.
* Each team will get 7 minutes to complete the qualifying round and the teams that qualify will move to final round.
* Qualifying round may have the following obstacles.

1. Rough terrain track
2. Bumps
3. Slope
4. Nail-bed
5. See-saw
6. Hanging bridge
7. Water puddle (depth upto 4-5cm)
8. Stones
9. Oil/Grease

Note : there will be some surprise obstacles as well to be disclosed on the spot.

* Final round will have more complex obstacles.

## ****SCORING:****

 50 points will be awarded to cross the major obstacles and 25 points will be awarded to cross the minor obstacles.

 150 bonus points will be awarded if the bot is wireless.

 200 points will be awarded for crossing the finish line.

 50 bonus points will be awarded for bot with on-board battery.

 Final score = (total score) – ( time(in seconds) /3 ).

In case of any dispute or ambiguity, event coordinators decision would be final.