SOLAR SPLASH

INTRODUCTION:

"Civilization requires energy; not a wheel of commerce or industry would turn without it"

Well, there's been a lot of talk about solar energy, how is it going to power our world? The world we know and inhabit derives its energy from fire. How can somebody just transform that world into something that goes on the power of the sun? But people have changed the world in the past and so can we. The thing that is to be done here is to create a new world, a community of people living on renewable energy and gradually expand that community into a city and then a country one step at a time.

One small step in that direction is the Solar Boat competition this Technovanza where we're encouraging you to use the power of the sun to run robots and perform the required tasks.

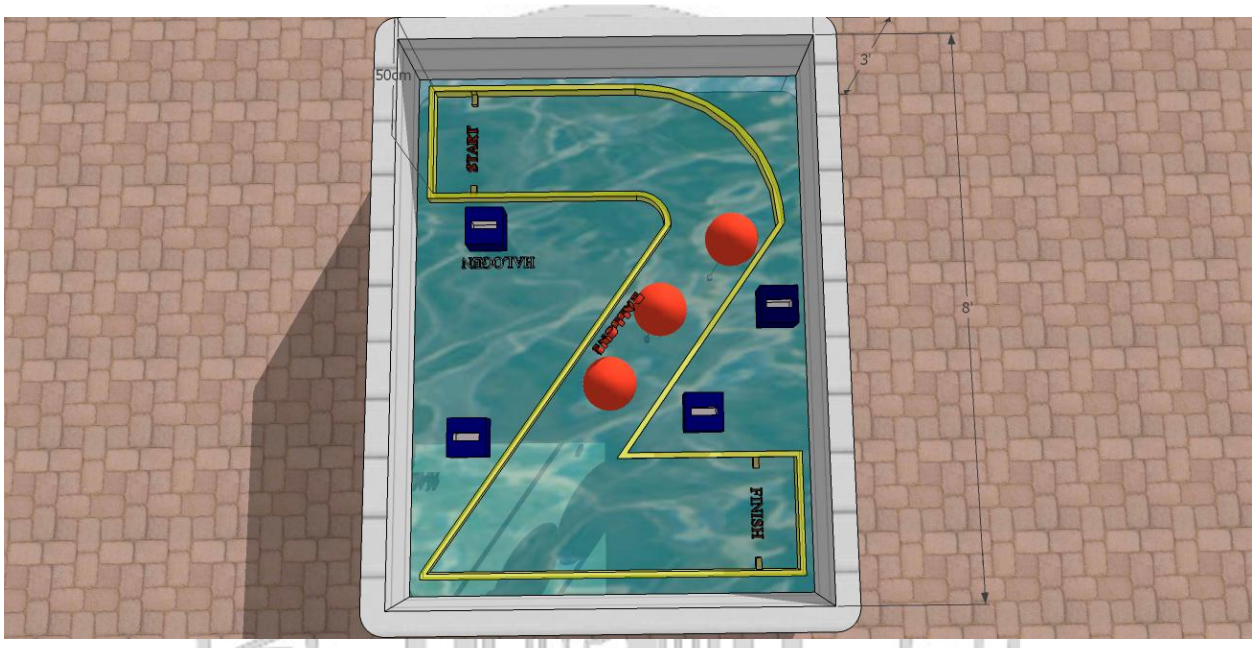
Task:

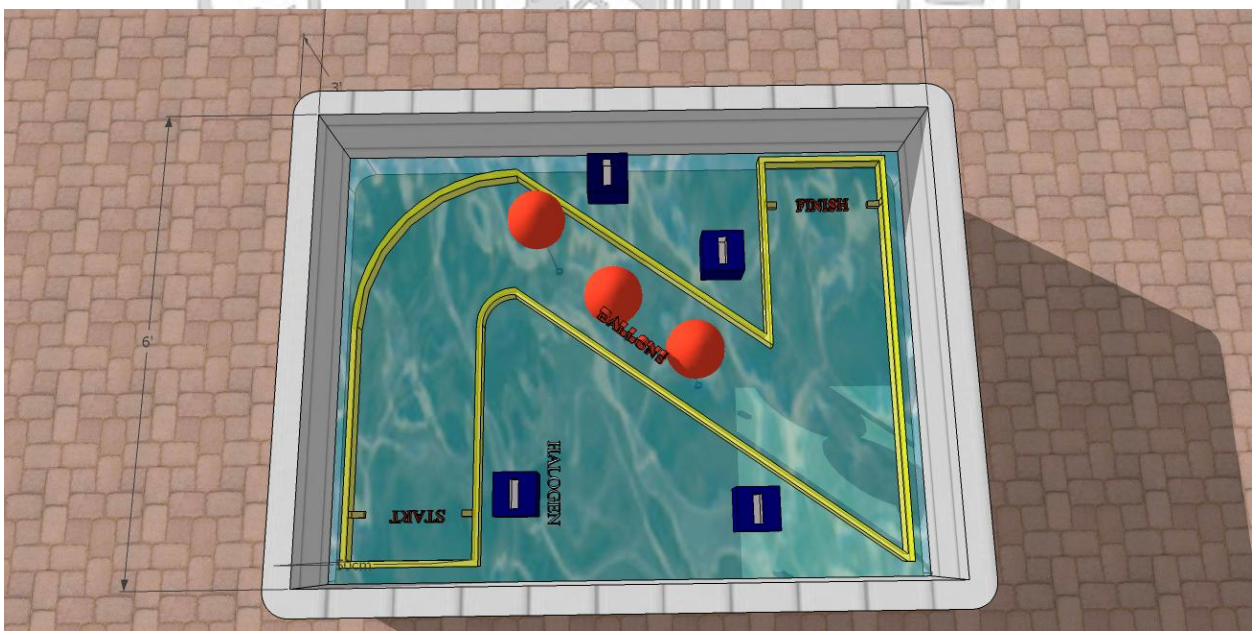
The participants are supposed to design a solar boat by using solar panels. The maximum area of solar panels will be 25*25 cm. The boat can be wired or wireless.

GAMEPLAY:

INDICATIVE ARENA:

Round 1:

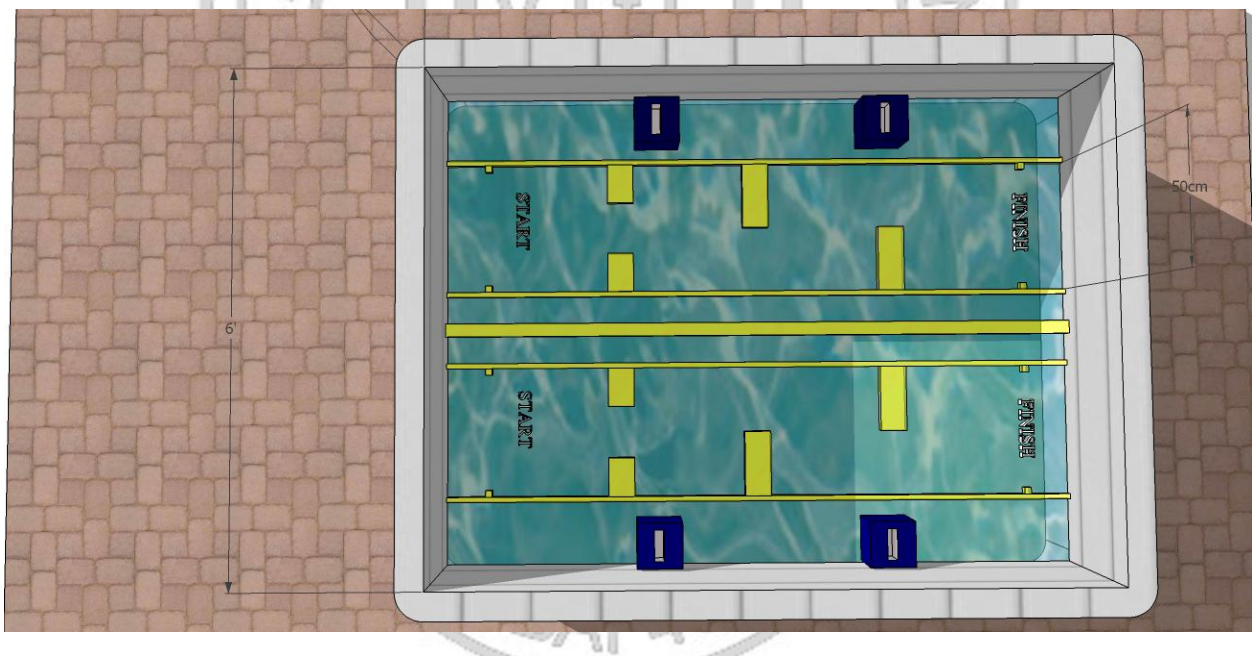




- Overall timing would be considered. Max allowable time is 7 min.
- On completion of entire level 1000 points will be awarded.
- 25 points will be deduced each time the bot is touched to align it in proper direction. I.e. penalty for hand touch is 25 points.
- For bursting the balloons 100 points will be awarded for each balloon.
- You will be disqualified if you are unable to complete the third checkpoint. (To qualify for the next level the team has to cross the third checkpoint)
- The total score will be (total points gained)/ (time taken).
- Teams for knockout round will be decided on points scored

INDICATIVE ARENA:

Round 2:



- This level includes racing of qualified bots taken 2 at a time.
- Final winner will be decided by series of knockout matches and points scored.
- The Points and penalty for this round will be announced at the day of event only.
- The organizers reserve all rights to change any of the above rules as they deem fit. Change in rules, if any will be indicated on the website. In case of any discrepancy decision of the judges shall be treated as final and binding on all.

GENERAL RULES AND SPECIFICATIONS:

- A team may consist of a maximum of 4 participants.
- Students from different educational institutes can form a team.
- Each team is allowed to have only one bot for both the rounds.
- The size of bot should not exceed the given dimension -300mm x 300mm x300mm (L x W x H).
- Readymade chassis of the boat (i.e. plastic boat modules from a kit) are not allowed.
- All the controls of bot should be in 1 remote.
- Only 1 player will be allowed to control the bot.
- You will be provided with four halogen lamps in all levels.
- Lego kit cannot be used as a whole.
- The tank dimension will be 8*6*2(in ft).
- Maximum area of the solar panel is 250mm x 250mm.
- Violating the clause will lead to immediate disqualification.
- For wired robots, the wire should be such that it does not cause any motion of the bot.

CONTACT US:

Event heads:

Mayuresh Phegade
+91 9769434385

Suraj Nair
+91 9833436028

Email: solarsplash@technovanza.org

General Manager:

Deep Gudhka
+91 9076787763
deep.gudhka@technovanza.org