

Aeromodelling Club**Mid Prep GC - Hovercraft****Date: 17 January ,2014****Problem Statement and Rules****Rules -**

- Battery Voltage should not be more than 15 volts.
- There would be only 2 competition rounds and one trial round.
- Only transmitter and receiver will be provided by club, which will have at least 6 channels.
- It should be electronic only. Fuel engine should not be used.
- It should fit in 35x35x35 cm cube.
- It can be autonomous also but there will **not** be any extra point for this

PS:

- The shape of the arena would be like curvy eight and it will be in SOM WEL.
- There will be 4 checkpoints. After crossing each checkpoint you will win 30 point.
- All the teams will first be ranked on the basis of the time taken to complete the arena, and will then be assigned scores on the following basis: $\text{score} = 101 - (\text{sorted rank})^2$. For example, if a team ranks 3, their score will be $101 - 3^2 = 92$.
- Aesthetic part will contain 20 marks.
- Only points scored during the first 7 min will be considered.
- You can touch your hovercraft only 2 time during the whole round and you will not get extra time for that

Loopholes :

It is virtually impossible for a set of rules to be so comprehensive that it covers all possible questions about the hovercraft's design parameters or the conduct of the competition. Please keep in mind that safety remains paramount during competition, so any perceived loopholes should be resolved in the direction of increased safety/ concept of the competition

Some random stuff for help:

- <http://www.g9toengineering.com/MechatronicsStudio/HoverCraft.htm>

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