Hoverun 3.0

Problem statement:

Build a wireless remote controlled hovercraft (air cushion vehicle) which travels on various terrains like sand, mud, water, gravel and concrete and complete the specified track in the least possible time.

Arena : Arena would consist of certain kind of hurdles, muddy zones , zigzag paths etc.

Event details:

The event will be held during Technosearch 2016 .The details are as enumerated below:
The event consist of the 2 rounds as described below:-

Round-1

This will be a knockout round; teams have to complete the specified track (Two laps) successfully. Teams that clear the knockout stage will move to the next round.

Round-2

In the final round the teams who are qualified in two rounds have to attend one more test where a hovercraft should reach the destination specified without deviating from the path (plain terrain) and also without any break in the least amount of time.

The limits to the dimensions are-

Length: 50 to 80 cm's
Breadth: 50 to 80 cm's
Height: no restriction
Maximum number of participants per team is 4
Frequency of the wireless remote control is 2.4Ghz
Ready to use kits and readymade building kits are strictly prohibited.
Participants will be given time slots for practice before the event.
No limitation on the number of motors or type of motors or servos used.
During the event only one member per team is allowed to run the hovercraft.
The arena is subject to changes during the event depending on level of participation.
Event coordinators reserve the exclusive rights to disqualify any team indulging in misbehavior.