

SHIFT & DRIFT – RC

"THE ULTIMATE ELECTRIC RC CHALLENGE & INOVATIONS"

CHALLENGE:

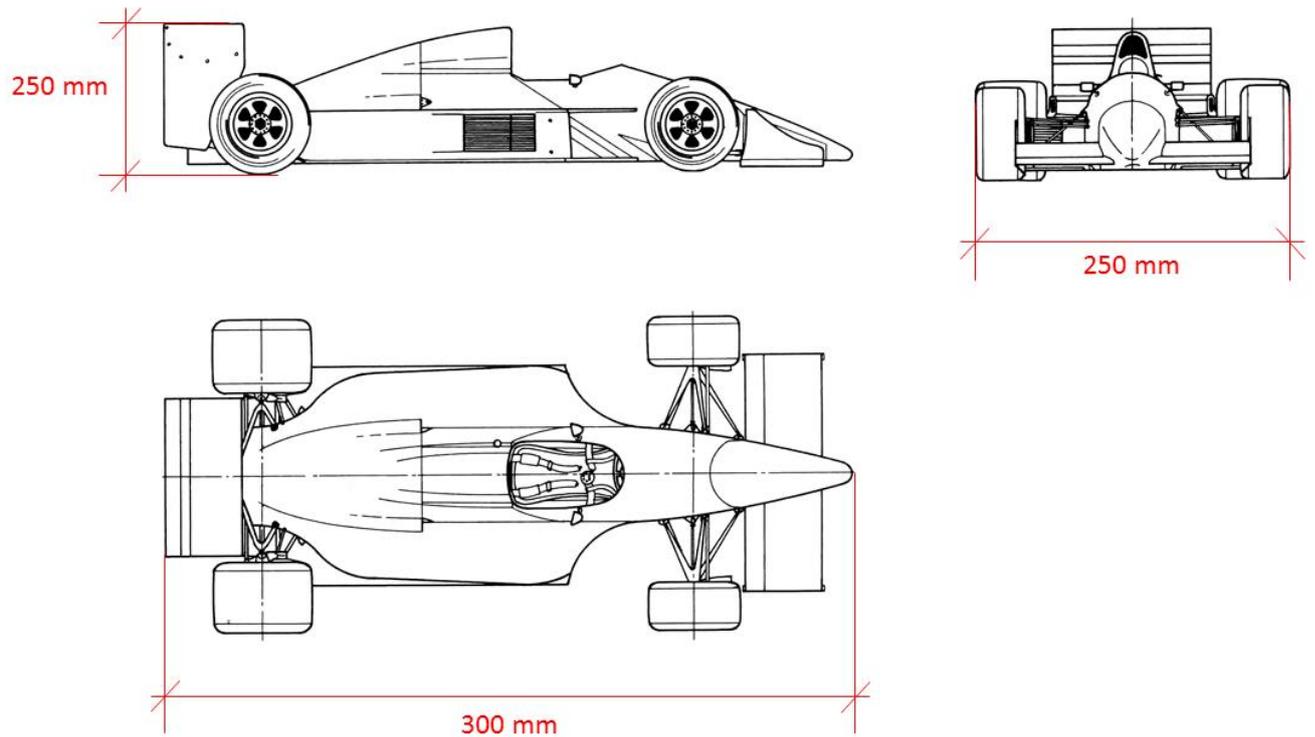
Are you ready for the challenge to design all-electric Radio controlled Cars & Robots that has capacity to perform Robot Stunts, cover maximum distance in shortest possible time, challenging the hurdles and overcome the obstacles in least time? Are you a good innovator? If so bring it on the stage and showcase your talent.

OVERVIEW

Categories of Events

- Chequered Flag: Qualifying rounds followed by main race
- Traction Control: Race with Ramps and Bumps
- Innovators
- Only All electric Radio Controlled Cars should be used for the racing event.
- Wired or Non Wired Robots can be used for Robot Stunt event
- Pre-registered teams can only participate.
- Event is open to all School students
- Minimum of 1 participant and Maximum of 5 participants per team for *"Chequered Flag & Traction Control"*, For *"Innovator"* event Minimum 1 participant is allowed
- Students from same or different institutes can form a team.
- All student of the team must carry ID card of his/her respective institution.
- More than one Team can register from an institution, no limit on the number of entries per institution
- A Team can bring maximum of 2 Cars/Robots for the event
- Participants are allowed to participate in more than one category
- All Cars are subject to inspection for the required specifications every time before getting into track
- The Cars would be checked for its safety before the competition and would be disqualified if found unsafe for the participants, spectators and arena
- Sequence of Robots/Cars performance for stunt event or qualifying rounds for race events will be pre decided by picking up lots
- If the Car goes off the track at any time of the race, one of the team member is allowed to bring it back to the track manually and allowed to keep at the sector's start point from the sector it went off and continue the race
- The teams must adhere to the spirit of healthy competition. The coordinators reserve the right to disqualify any team indulged in misbehaviour.
- Each Car & Robot will be given a Numerical number, if any team brings more than one Robot, Alpha Numerical Robot numbers will be given to the particular team for tracking throughout the event, and the sticker should be present on them till the event is over.
- The decision of the judges shall be treated as final and binding.
- Sufficient AC charging point arrangements will be made at the venue for the participants

RC CAR



- The radio controlled Car should be built within the dimensions mentioned above, wheel base and wheel track can be of your choice provided overall dimension of the Robot falls under the prescribed values mentioned (Refer above Picture)
- Antenna (if used) is exempt from the height restriction.
- The Car must be controlled only by a wireless mechanism throughout the event.
- The external device used to control the Car is not bound by any size constraint.
- The Car must have an on-board power supply to provide power to all mechanism requiring electric power
- *Cars for Chequered Flag and Traction Control:* The potential difference between any two points in the Car should not exceed 12 V
- Note that participants are required to bring 2 remote controls of distinct frequencies or a dual-frequency remote control.
- The Robot can be constructed using readily available chassis layouts, assembly kits and Lego parts, etc. (**Note:** For Best Design Award, bonus points will be given to those Robot fabricated manually rather than made by Lego or any readymade kits)

TRACKS

- Indoor track with Matte finish surface, Track width will be 2.5 feet, Length of the Track will be 35m
- The race track will have clearways, turns and corners
- For Traction Control event track will have Ramps and bumps.
- Good visibility elevated podium will be provided for the drivers to control the Car.

REWARDS:

- Winners and Runners will be declared for all categories
- Trophies and Certificates for all Winners, Runners & Special Jury Awards
- All Participants will get Participation certificate on the final day.
- Gift vouchers will be given to participants & audience for successfully taking up Science Quiz

NOTE:

The organizers reserve the rights to change any or all of the above rules as they deem fit. Change in rules, if any will be notified to the participants on time.

Thanks
Chennai Smiley Creations