1. Event Full Name : ROBOWAR
2. Event Tagline : License to Kill
3. Event Poster : Attached Separetely
4. Date : 07/03/2019
5. Time : 10:am onwards
6. Venue : Near Narayan Bhavan
7. Coordinator Details:

* Chandwani Akshay - 9913830129
* Donga Mit -9377136162
* Patel Yash-9427462074
* Dhananjay mistry-9913302433
* Minesh Prajapati-9558285179

1. Team size : Maximum no. of 5 Participants per team
2. Event Descricption:

Battles Define Winners. And Winners Define Battles

Pick your side, wave your flags and choose your war cries, for soon the arena for the greatest machine warlord will be thrown open for the expert and the rookie alike. Unite with your inner warrior and prove your mettle as your automation takes on the beasts who have conquered the battleground. Rise through the rubble and make your efforts worth the pain. Fight for glory, fight for pride, it is time for you to take on the campaign! Get your blood rushing, your adrenaline pumping, for ladies and gentlemen, it is Robowar time!

1. Rules and regulations:

**DIMENSION AND FABRICATIONS:**

* + The machine must fit in a box of dimension 750mm x 750mm x 750mm (l x b x h) at any given point during the match. The external device used to control the machine or any external tank is not included in the size constraint.
  + The weight of the robo should not exceed 40 kg
  + The machine should not exceed 40kg of weight including the weight of pneumatic source/tank.
  + For weight calculations, all pneumatic source/tanks and batteries will be considered. Weight of remote controller will not be counted. The machine should not intentionally be split into components or any parts should not intentionally be detached from machine at any point of match.
  + The wired robot should have minimum length of wire of 4m

**GENERAL CONSTRUCTION:**

Any on-board equipment that could require attention between duels for maintenance - e.g. recharging of compressed gas cylinders, charging batteries, resetting of weapons, etc. - should be easily and quickly accessible i.e. systems must be installed in such a manner that they can be removed for filling and testing within five minutes.

**STYLE AND MOBILITY:**

* All robots must have easily visible and controlled mobility in order to compete.
* Methods of mobility include:
  + - * Rolling (wheels, tracks or the whole robot).
* Non-wheeled robots having no rolling elements in contact with the floor and no continuous rolling or cam operated motion in contact with the floor, either directly or via a linkage. Motion is "continuous" if continuous operation of the drive motor(s) produces continuous motion of the robot. Linear-actuated legs and novel non-wheeled drive systems come under this category.
* Jumping and hopping is not allowed.

**SAFETY RULES:**

* Compliance with all event rules is mandatory. It is expected that competitors stay within the rules and procedures of their own accord and do not require constant policing.
* Special care should be taken to protect the on-board batteries and pneumatics, robot without proper protection will not be allowed to compete.
* If you have a robot or weapon design that does not fit within the categories set forth in these rules or is in some way ambiguous or borderline, please contact the event organizers. Safe innovation is always encouraged, but surprising the organizers with your brilliant exploitation of a loophole may cause your robot to be disqualified before it even competes.
* Each event has safety inspections. It is at their sole discretion that your robot is allowed to compete. As a builder you are obligated to disclose all operating principles and potential dangers to the Judge.
* Proper activation and deactivation of robots is critical. Robots must only be activated in the arena, testing areas, or with expressed consent of the event coordinators.
* All weapons must have a safety cover on any sharp edges.
* All participants build and operate robots at their own risk. Combat robotics is inherently dangerous. There is no amount of regulation that can encompass all the dangers involved. Please take care to not hurt yourself or others when building, testing and competing. Any kind of activity (repairing, battery handling, pneumatics systems etc.) which may cause damage to the surroundings during the stay of the teams in the competition area should not be carried out without the consent of organizers. Not following this rule may result in disqualification.
* All the resources provided at the time of competition from the organizers should be strictly used only after the consent of the organizers.
* Once the robots have entered into the arena, no team member can enter into the arena at any point of time. In case if a fight has to be halted in between and some changes have to be done in the arena or condition on the robot(s), it will be done by organizers only.
* competitor will be disqualified If he make damage to control unit(wire) of opponent's robo
* There should be a provision for a ‘Kill Switch’ which should be easily available to stop the robot in case of any uncontrolled robot response
* Flying (using aerofoil, helium balloons, ornithopters, etc.) is not allowed.

**JUDGING CRITERIA:**

* + A robot is declared victorious if its opponent is immobilized.
  + A robot will be declared immobile if it cannot display linear motion of at least one inch in a timed period of 30 seconds. A robot with one side of its drive train disabled will not be counted out if it can demonstrate some degree of controlled movement. In case both the robots remain mobile after the end of the round then the winner will be decided subjectively.
  + A robot that is deemed unsafe by the judges after the match has begun will be disqualified and therefore declared the loser. The match will be immediately halted and the opponent will be awarded a win.
  + If a robot is thrown out of the arena the match will stop immediately, and the robot still inside the arena will automatically be declared as the winner.
  + Robots cannot win by pinning or lifting their opponents. Organizers will allow pinning or lifting for a maximum of 10 seconds per pin/lift then the attacker robot will be instructed to release the opponent. If, after being instructed to do so, the attacker is able to release but does not, their robot may be disqualified. If robots become entangled or a crushing or gripping weapon is employed and becomes trapped within another robot, then the competitors should make the timekeeper aware, the fight should be stopped and the robots separated by the safest means. Points will be given on the basis of aggression, damage, control and strategy
    - * Aggression – Aggression is judged by the frequency, severity, boldness and effectiveness of attacks deliberately initiated by the robot against its opponent. If a robot appears to have accidentally attacked an opponent, that act will not be considered Aggression.
      * Control – Control means a robot is able to attack an opponent at its weakest point, use its weapons in the most effective way, and minimize the damage caused by the opponent or its weapons.
      * Damage – Through deliberate action, a robot either directly or indirectly reduces the functionality, effectiveness or defensibility of an opponent. Damage is not considered relevant if a robot inadvertently harms itself. Also, if a pressure vessel or a rapidly spinning device on a robot fragments, any damage to the opponent will not be considered "deliberate".
      * Strategy – The robot exhibits a combat plan that exploits the robot's strengths against the weaknesses of its opponent. Strategy is also defined as a robot exhibiting a deliberate defence plan that guards its weaknesses against the strengths of the opponent.

**NOTE:** Qualification of a robot to next level is subjective and totally on the decision of the judges. All the decisions taken by the judge will be final and binding to all.

1. Registration fees : Rs. 400 per team

11. Registration Details

* Registration type : Pre-registration and first come first serve basis.
* Registration Start date : 18/02/2019, 11:00am onwards
* Registration Closure date : 25/02/2019, up to 5:00pm

12. Winning Prize Amount: 1st prize: 5000, 2nd prize: 2500, 3rd prize: 1000

13. Any additional remarks if any:

Numbers of winner rank are subject to reduce based on strength of participation.

Participation Certificate will be provided to all the participants.