



RV Educational Institutions®
RV College of Engineering®

Autonomous
Institution Affiliated
to Visvesvaraya
Technological
University, Belagavi

Approved by AICTE,
New Delhi



Bangalore Branch



A E R O M A N I A

AQUA LEAGUE

RULE BOOK



Description

The event aims to design and deploy a water rocket that uses water as its reaction mass.

The plastic bottle is used as the rocket's engine, using Newton's third law of motion.

Materials Provided

- ½, 1, and 2 litre plastic bottles (only 1)
- Tape
- Clay
- Glue
- Cardboard
- Rubber stoppers
- Duct tape
- Bottle caps with Hole
- Launchpad Board
- Bicycle pump or a small compressor
- Rubber Bands
- Nylon thread and strings
- Utility blade
- Wooden cork
- Scissors

Rules and Regulations

- Participants can be from any background and must carry a valid Id card.
- The number of participants is 2 in a team.
- Teams will be given two chances for each round.
- The rocket must be handmade and readymade rockets are not allowed.
- The water rocket must use only compressed atmospheric air as a source of energy.
- The organizers will provide water. The amount of water to be filled is left to the team.
- The use of electronic devices and chemical explosives is strictly banned.



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- The point where the rocket hits the ground first will be taken as the point of landing and measurements will be taken considering this point.
- The team will be disqualified/given another chance to remodel if the model is found to be dangerous in any way. The decision of the organizers is final and binding.

Judging

The event will consist of two rounds:

- **Qualifying round: Range test**

The maximum range is tested, the distance between the launch pad and the landing point. The selected teams will be qualified for the next round.

- **Final round: Battle of rockets(based on the number of registrations)**

The selected teams compete based on the points scored and for the maximum range tested in the third round.

Inventive designs will carry extra points.

Timeline

Design and building water rocket - 30 mins

Remaining time for launch.

Registration Fees : **₹300**

Prize Money: **₹3000**