

# Astrobot – Robotics Challenge

## Qualifier Level (Online Submission)

**Mission:** Simulate how a robot works like a Mars Rover.

- Submit a **video (max 2 minutes)** showing:
  - Robot movements: Forward, backward, left, right
  - Gripper action: Pick and place a small object
  - A short explanation of how your team have built the robot
- Mention your **name, school, and location** in the video
- Robot Dimensions (max 40 cm x 35 cm [L x W] excluding gripper Size, Overall robot weight should be under 5 kg)
- Height of the robot is not considered in dimensions
- Video file name should be the Team ID. (Ex: )
- Video file size should not be more than **30 MB**.
- **Upload the video in:** <https://www.bharatteckleague.com/>

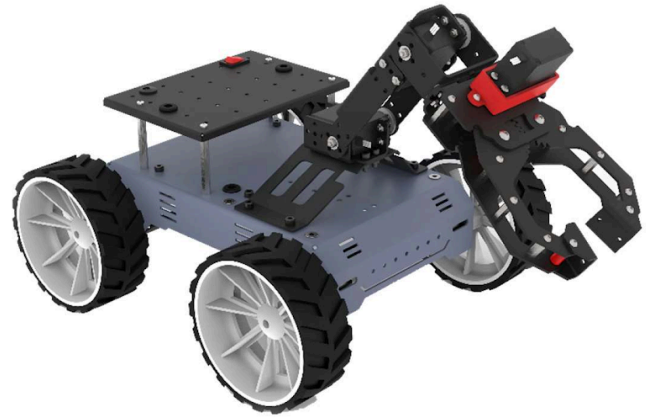
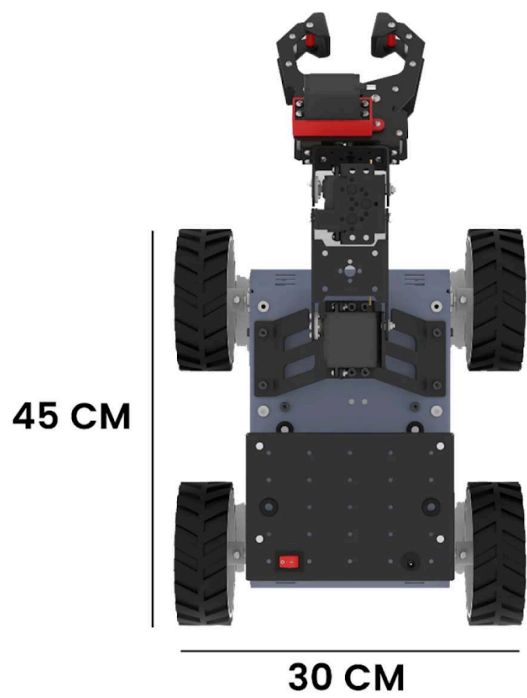
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## Finale Level (Offline Competition)

**Mission:** Mini Space Station Build Challenge

- Navigate your robot through a lunar surface-themed arena.
- Pick and place space-module blocks by crossing different terrains/surfaces.
- Complete the laps (number of laps will be mentioned on the spot)
- Three teams compete simultaneously in parallel arenas

**Judging:** Accuracy, obstacle navigation, timing



**Disclaimer:** The image shown is for reference purposes only. The dimensions mentioned in the image represent the maximum allowable size for the robot. Smaller dimensions are acceptable, but the robot must not exceed the specified limits.

# Team Guidelines

- Each team must have a **minimum of 2** and a **maximum of 4** student members.
- All members of the team must be from the **same school**.
- A student can participate in **only one category**.
- Teams must be mentored by a **teacher/coordinator/school representative**.
- Once the team is registered, no modifications to team members are allowed at any level of the competition.
- Teams must arrange their own materials, tools, and laptops as required.

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**Note:** For all competitions, follow size, weight, and software rules mentioned. Any violation may result in disqualification. Ensure all required items (laptop, model, materials) are carried by the participants. Power supply will be provided at the venue.