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| # | **Design Requirements** |
| 1. | **The robot should be able to follow the robot infront.** |
| 1.a | -Minimum distance between the robots is 20 cm. |
| 1.b | -Normal speed of the robot is 12 cm/s. |
| 2. | **The robot is required to leave the line on externally received command.** |
| 2.a | -Robot should leave the convoy within 15 sec. |
| 2.b | -Robot should maintain lateral distance of 10 cm from the convoy. |
| 3. | **The robot should be able to rejoin the convoy as the last robot.** |
| 4. | **Robot needs to satisfy physical dimensions that stated in the standards.** |
| 4.a | -Robot should fit inside a 30 cm diameter cylinder placed vertically. |
| 5. | **The total cost for the implementation of the robot should not exceed 150$** |