***TEST PROCEDURE FOR ADAS****:*

The test is performed in institute hallway. In this setup robot is tested under 2 Meter Range.

AV should move forward, backward and straight.

Procedure:

-Put the AV in the ground at the starting position. Make sure it is kept at center of pathway and minimum distance of 20 cm is kept between AV and boundary.

-Connect the USB port of laptop with Arduino board.

-Open Arduino IDE and upload the program which is to be executed.

-Check the Serial Monitor and after looking to the data flashing, pull the emergency stop button.

-Beware that LASER protective area which is green light must be observed before the button is pressed in Bragg board.

-Note down the observations.

Observation Table:

|  |  |  |
| --- | --- | --- |
| Serial Number | Forward Distance(cm) | Deviation( Degree) |
| 1 | 10 | 2-5 |
| 2 | 20 | 5-10 |
| 3 | 50 | 20-35 |
| 4 | 75 | 70-95 |
| 5 | 100 | 115-145 |
| 6 | 125 | 170-190 |
| 8 | 150 | Wall(Protective Area) |
| 9 | 200 | Wall (Protecive Area) |
|  |  |  |
|  |  |  |

Result:

Unfortunately a large deviation is seen in AV when it is more than 50 cm and it is leaning towards wall heavily. It is due to imbalance in the dead weight to compensate laser weight .Mechanics of vehicle is also responsible. Supporting wheel diameter is too small. The long metallic handle is not properly aligned.

So overall TEST RESULTS are unsatisfactory and overall Test is declared as ***FAIL.***