|  |  |
| --- | --- |
| **S.no.** | **Requirements** |
| HLR\_01 | If ignition Is On vehicle should start. |
| HLR\_02 | Gear trackbar varying from level 1 to level 5. |
| HLR\_03 | Accelerator varying from 1 to 8. |
| HLR\_04 | Speedometer varying from 0km/hr to 220km/hr. |
| HLR\_05 | 5 levels of brake varying from 0 to 5. |
| HLR\_06 | Fuel should decrease slowly when the ignition is On. when vehicle is moving  Depending upon the speed fuel should decrease. |
| LLR\_01 | For gear 1, vehicle should move in speed 0-20Km/hr w.r.to. acceleration applied. |
| LLR\_02 | For gear 2, vehicle should move in speed 0-50Km/hr w.r.to. acceleration applied. |
| LLR\_03 | For gear 3, vehicle should move in speed 0-80Km/hr w.r.to. acceleration applied. |
| LLR\_04 | For gear 4, vehicle should move in speed 0-140Km/hr w.r.to. acceleration applied. |
| LLR\_05 | For gear 5, vehicle should move in speed 0-220Km/hr w.r.to. acceleration applied. |
| LLR\_06 | Depending upon the brake level speed should decrease gradually. |
| LLR\_07 | When School Zone button is pressed whatever maybe the speed, speed should limit to 40Km/hr and gear 3 till 500 meters. |
| LLR\_08 | When speed limit 50 button is pressed speed should limit to 50Km/hr and gear 3 till 2 km. |
| LLR\_09 | When speed limit 100 button is pressed speed should limit to 100Km/hr and gear 4 till 1.5km. |
| LLR\_10 | When Gravel button is pressed speed should limit to 10Km/hr and gear 1 till 500m. |
| LLR\_11 | When Narrow Bridge button is pressed speed should limit to 30Km/hr and gear 2 till 1km. |
| LLR\_12 | When Turn left button is pressed left indicator should turn On and speed limit to 20Km/hr and gear 2 till 500 meters. |
| LLR\_13 | When turn right button is pressed right indicator should turn On and speed limit to 20Km/hr and gear 2 till 500 meters. |
| LLR\_14 | When animal crossing button is pressed speed limit should be limit to 10Km/hr and gear 2 till 1km. |
| LLR\_15 | When Traffic signal button is pressed speed should gradually decrease to 0Km/hr. |
| LLR\_16 | When Fuel is in reserve and when filling station button is pressed vehicle should stop and fuel tank will be filled. |
| LLR\_17 | When T-junction button is pressed speed should gradually decrease to 0 km/hr. |
| LLR\_18 | When Slippery road button is pressed speed should limit to 50km/hr and gear 3. |
| LLR\_19 | When Road Hump button is pressed speed should limit to 10km/hr and gear 1. |
| LLR\_20 | When Y-junction button is pressed speed should gradually decrease to 0km/hr. |

**High level and Low-level Requirements**