**Chapter 4**

*Testing is way of knowing the accurate working of our project, design and completing a work does not matters but checking it as to what extent it works correctly is important. Such a testing can be done by the developer of the project or the client.*

*In our research work we have successfully completed the modules and the quality check is done by the EPR labs, a trade mark company.*

**4.0 Test cases**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MODULE I : Mech** | | | | | | | | | |
| **Test Id** | **Test Case Name** | **Test Description** | | **Tool used For Testing** | | **Expected result** | **Actual result** | **Result** | |
| 1 | Dynamics and Kinematics | Flexibility and rigidity | | Manually Tested | | Bipedal walk | Not accurate | **F** | |
| 2 | Walking Motion | Synchronization | | Manually Tested | | Bipedal walk | Not accurate | **F** | |
| 3 | Walking Motion | Synchronization after impl. of Honda’s walking assistant technique | | Manually Tested | | Bipedal walk | Perfect | **P** | |
| **Overall Result** | | | | | | | | **PASS** | |
| **MODULE I is Quality Checked (QC) by EPR LABS** | | | | | | | | | |
| **MODULE II : Electronic** | | | | | | | | | |
| **Test Id** | **Test Case Name** | | **Test Description** | | **Tool used For Testing** | **Expected result** | **Actual result** | | **Result** |
| 1 | Drivers | | Continuity and flow of voltage | | EPR Serial Debugger | Control motor by perfect voltage flow | Perfect motor rotation | | **P** |
| 2 | sensors | | Set bit when object is detected | | UMPS Simulator | Detection of Object | Object Detected | | **P** |
| **Overall Result** | | | | | | | | | **PASS** |
| **MODULE II is Quality Checked (QC) by EPR LABS** | | | | | | | | | |
| **MODULE III : RF** | | | | | | | | | |
| **Test Id** | **Test Case Name** | | **Test Description** | | **Tool used For Testing** | **Expected result** | **Actual result** | | **Result** |
| 1 | Transmission Of Bytes | | Transmission of Bytes using HT12E  (write cycle) | | HyperTerminal  (HDD Serial Port Monitor) | Transmit Bytes | Bytes Transmitted | | **P** |
| 2 | Reception Of Bytes | | Reception of Bytes using HT12D  (read cycle) | | HyperTerminal  (HDD Serial Port Monitor) | Reception Bytes | Bytes Received | | **P** |
| **Overall Result** | | | | | | | | | **PASS** |
| **MODULE III is Quality Checked (QC) by EPR LABS** | | | | | | | | | |