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| --- | --- | --- | --- | --- | --- | --- | --- |
| **S.No** | **Soil Moisture(%)** | **Temp**  **(°C)** | **Humidity**  **(%)** | **Expected Output** | **Output**  **Display** | **Water**  **Pump(ON/OFF)** | **Result** |
| 1 | 30(Dry) | 25 | 50 | Soil Dry, Pump on | Dry | ON | Pass |
| 2 | 50(Moist) | 25 | 50 | Soil Moist, Pump on | Moist | OFF | Fail |
| 3 | 70(Wet) | 25 | 50 | Soil wet, Pump off | Wet | OFF | Pass |
| 4 | 30(Dry) | 35(Hot) | 50 | Soil Dry, pump on | Dry | ON  (Longer time run) | Pass |
| 5 | 50(Moist) | 35(Hot) | 50 | Soil Moist, Pump off | Moist | OFF | Pass |
| 6 | 70(Wet) | 35(Hot) | 50 | Soil wet, Pump off | Wet | OFF | Pass |
| 7 | 30(Dry) | 15(Cold) | 50 | Soil wet, Pump off | Dry | ON  (Shorter time run) | Fail |
| 8 | 50(Moist) | 15(Cold) | 50 | Soil Moist, Pump off | Moist | OFF | Pass |
| 9 | 70(Wet) | 15(Cold) | 50 | Soil wet, Pump off | Wet | OFF | Pass |