

## Acceptance Testing

### UAT Execution & Report Submission

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| Date: 15 February 2026                                   |
| Team ID: LTVIP2026TMIDS42653                             |
| Project Name: Rainfall Prediction System for Agriculture |
| Maximum Marks: 4 Marks                                   |

#### 1. Purpose of Document

The purpose of this document is to explain the test coverage, defect status, and overall readiness of the Rainfall Prediction System at the time of release to User Acceptance Testing (UAT). The document summarizes resolved issues, test case execution results, and system stability.

#### 2. Defect Analysis

The following table shows the number of resolved or closed defects identified during development and testing phases, categorized by severity.

| Resolution             | Severity 1 | Severity 2 | Severity 3 | Severity 4 | Subtotal |
|------------------------|------------|------------|------------|------------|----------|
| By Design              | 3          | 2          | 1          | 2          | 8        |
| Duplicate              | 1          | 0          | 1          | 0          | 2        |
| External Library Issue | 0          | 1          | 0          | 1          | 2        |
| Fixed                  | 5          | 3          | 4          | 6          | 18       |
| Not Reproduced         | 0          | 0          | 1          | 0          | 1        |
| Skipped                | 0          | 0          | 1          | 0          | 1        |

|           |   |   |   |    |    |
|-----------|---|---|---|----|----|
| Won't Fix | 0 | 1 | 0 | 1  | 2  |
| Totals    | 9 | 7 | 8 | 10 | 34 |

### 3. Test Case Analysis

The following table summarizes executed test cases during UAT phase.

| Section                         | Total Cases | Not Tested | Fail | Pass |
|---------------------------------|-------------|------------|------|------|
| User Interface (Web Form)       | 15          | 0          | 1    | 14   |
| Data Validation & Preprocessing | 10          | 0          | 0    | 10   |
| Machine Learning Prediction     | 12          | 0          | 1    | 11   |
| Advisory Generation             | 8           | 0          | 0    | 8    |
| Exception Handling              | 6           | 0          | 0    | 6    |
| Model Integration & Deployment  | 5           | 0          | 0    | 5    |
| Security & Input Validation     | 4           | 0          | 0    | 4    |

### 4. UAT Summary

The Rainfall Prediction System successfully passed the majority of test cases during UAT. Minor UI validation and prediction edge-case issues were identified and resolved. The system is stable, responsive, and ready for deployment. Overall test coverage indicates high reliability and performance compliance.