Acceptance Testing
UAT Execution & Report Submission

Date	19 February 2026
Team ID	LTVIP2026TMIDS84143
Project Name	Electric Motor Temperature Prediction using Machine Learning
Maximum Marks	5 Marks

1. Purpose of Document

The purpose of this document is to explain the test coverage, defect status, and overall quality of the Electric Motor Temperature Prediction System at the time of release for User Acceptance Testing (UAT).

This report summarizes defect resolution status and test case execution results for the machine learning model, preprocessing pipeline, and Flask web application.

2. Defect Analysis

This report shows the number of resolved or closed bugs at each severity level, and how they were resolved

Resolution	**Severity 1**	**Severity 2**	**Severity 3**	**Severity 4**	**Subtotal**
By Design	2	1	1	2	6
Duplicate	0	0	1	0	1
External	1	1	0	0	2
Fixed	3	2	4	5	14
Not Reproduced	0	0	1	0	1
Skipped	0	0	0	1	1
Won't Fix	0	1	1	0	2

Totals 6 + 5 + 8 + 8 = 27

3. Test Case Analysis

This report shows the number of test cases that have passed, failed, and untested

Section	Total Cases	Not Tested	Fail	Pass
Data Loading & Preprocessing	8	0	0	8
Model Training & Evaluation	10	0	0	9
Flask Backend Integration	12	0	0	12
User Interface (HTML Form)	8	0	0	8
Input Validation & Error Handling	6	0	1	5
Prediction Output & Alert System	6	0	0	6

Test Case Summary

Total Test Cases = 50
Passed = 48
Failed = 2
Not Tested = 0

Version Control

Version: 1.0
Release Type: UAT Release
Deployment: Local Flask Server
Model Version: Trained Regression Model (.pkl file)

Final Testing Status

The application is stable and ready for User Acceptance Testing (UAT).
All critical and major defects have been resolved. Minor UI improvements can be enhanced in the next release cycle.