Acceptance Testing
UAT Execution & Report Submission

Date	21 February 2026
Team ID	LTVIP2026TMIDS38689
Project Name	Electric Motor Temperature Prediction using Machine Learning
Maximum Marks	4 Marks

1. Purpose of Document

The purpose of this document is to briefly explain the test coverage and open issues of the **Electric Motor Temperature Prediction AI** project at the time of the release to User Acceptance Testing (UAT). It ensures that the Random Forest model and Flask application meet industrial standards for predictive maintenance.

2. Defect Analysis

This section outlines the testing status of the primary software modules, including the inference engine and the user interface.

Section	Total Cases	Not Test	Fail	Pass
ML Inference Eng (Random Forest)	12	0	0	12
Web Dashboard (Flask/HTML)	25	0	0	25
Data Preprocessi (Scaler Logic)	10	0	0	10
API Security (CORS/Validation)	5	0	0	5

Totals	**52**		**0**		**0**		**52**

Bug Resolution Report: This report shows the number of resolved or closed bugs identified during the development of the prediction pipeline.

Resoluti	**Severity (Critical**	**Severit (Major)**	**Severit (Minor)**	**Severit (Trivial)**	**Subtotal**
By Desi	2	1	2	1	6
Duplicat	0	0	1	0	1
External (Library)	1	1	0	0	2
Fixed	5	3	4	2	14
Not Reprodu	0	0	1	0	1
Totals	**8**	**5**	**8**	**3**	**24**

3. Test Case Analysis

This report focuses on the specific validation of the machine learning output and the stability of the final report generation.

Feature C	Total C	Not Te	Fai	Pass
Prediction Accura	9	0	0	9
Sensor Data Excep	6	0	0	6
Final Predicti	4	0	0	4
Model Version C	2	0	0	2
Total	**21**	**0**	**0**	**21**