### ****CleanTech — Project Planning Template****

**Project Planning Phase**  
**Date**: 1 july 2025  
**Team ID**: LTVIP2025TMID38158  
**Project Name**: CleanTech  
**Maximum Marks**: 5 Marks

### ****Product Backlog, Sprint Schedule, and Estimation (4 Marks)****

| **Sprint** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Story Points** | **Priority** |  |
| --- | --- | --- | --- | --- | --- | --- |
| Sprint-1 | Dataset Setup | USN-1 | Load and visualize the waste dataset from Kaggle | 2 | High |  |
| Sprint-1 | Dataset Setup | USN-2 | Preprocess images into structured folders | 2 | High |  |
| Sprint-2 | Model Development | USN-3 | Build and train a VGG16 model | 5 | High |  |
| Sprint-2 | Prediction Logic | USN-4 | Test the model on random images | 3 | Medium |  |
| Sprint-3 | Flask Integration | USN-5 | UI to upload image and get predictions | 5 | High |  |
| Sprint-3 | Flask Integration | USN-6 | Display uploaded image and prediction clearly | 3 | Medium |  |

### ****Project Tracker, Velocity & Burndown Chart (4 Marks)****

| **Sprint** | **Total Story Points** | **Duration** | **Sprint Start Date** | **Sprint End Date (Planned)** | **Story Points Completed** |
| --- | --- | --- | --- | --- | --- |
| Sprint-1 | 4 | 5 Days | 01 Feb 2025 | 05 Feb 2025 | 4 |
| Sprint-2 | 8 | 5 Days | 06 Feb 2025 | 10 Feb 2025 | 8 |
| Sprint-3 | 8 | 5 Days | 11 Feb 2025 | 15 Feb 2025 | 8 |

### ****Velocity Calculation****

**Velocity** = Total Story Points / Number of Sprints = (4 + 8 + 8) / 3 = **20 / 3 ≈ 6.67 SP per Sprint**

### ****Burndown Chart****

A burndown chart is a graphical representation of remaining work vs time.  
It helps teams monitor progress and stay aligned with sprint goals.