Project Design Phase-I
Proposed Solution
Template

Date	14 October 2022
Team ID	PNT2022TMID18694
Project Name	Project - Early forest fire detection System
Maximum Marks	2 Marks

Proposed Solution Template:

Project team shall fill the following information in proposed solution template.

S/no	Parameter	Description
•	Problem Statement (Problem to be solved)	A forest fire risk prediction algorithm, based on support vector machines, is presented. The algorithm depends on previous weather conditions in order to predict the fire hazard level of a day.
•	Idea / Solution description	Use computer vision methods for recognition and detection of smoke or fire, based on the still images or the video input from the drone cameras.
•	Novelty / Uniqueness	Real time computer program detect forest fire in earliest before it spread to larger area.
•	Impact on society	Blocked roads and railway lines, electricity, mobile and land telephone lines cut, destruction of homes and industries.
•	Business Model (Revenue Model)	The proposed method was implemented using the Python programming language on a Core i3 or greater (CPU and 4GB RAM.)
•	Scalability of the Solution	Computer vision models enable land cover classification and smoke detection from satellite and ground cameras