

Project Design Phase-I
Proposed Solution Template

Date	10 October 2022
Team ID	PNT2022TMID47186
Project Name	Emerging Methods for Early Detection of Forest Fires
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 hazardlevel 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