

**Project Design Phase-I**  
**Proposed Solution Template**

Date	19 September 2022
Team ID	PNT2022TMID48585
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 the proposed solution template.

S.No	Parameter	Description
1.	Problem Statement (Problem to be solved)	Forest fires are a major environmental issue, creating economic and ecological damage while endangering human lives.
2.	Idea / Solution description	Detection of forest fire and smoke in wildland areas is done through remote sensing-based methods such as Satellites, high-resolution static cameras fixed on the ground and unmanned aerial vehicles(UAVs).
3.	Novelty / Uniqueness	These events are mainly caused by the actions of humans, but different nature and environmental phenomena, like lightning strikes or spontaneous combustion of dried leaves or sawdust , can also be credited for their occurrence.
4.	Social Impact / Customer Satisfaction	Social and political values at stake. Additional fire impact a wild range. A new generation of tools is needed to support strategic fire management.
5.	Business Model (Revenue Model)	Recent advancements in technology overwhelmingly shaped the environment. With the help of various state of the art technology such as IOT, AI, Geo spatial mapping focus to solve the problems.
6.	Scalability of the Solution	A novel forest fire risk prediction algorithm, based on a support vector mission is presented. The algorithm depends on previous weather conditions in order to predict the fire hazard level of the day.