

Project Design Phase-I
Proposed Solution

Date	19 September 2022
Team ID	PNT2022TMID12623
Project Name	Project – Emerging methods of 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
1.	Problem Statement (Problem to be solved)	Loss of biodiversity and extinction of plants and animals. Loss of wild life habitat. Loss of natural regeneration and reduction in forest cover, global warming
2.	Idea / Solution description	Drones are used to monitor the environment in forest. Use fire pits in territories protected by the department of natural resources. GPS can be used to track the location of fire.
3.	Novelty / Uniqueness	The use of convolutional neural network can be able to process the image and also test the dataset also. Fire detection systems increase response times, as they are able to alert the correct people in order to extinguish the fire.
4.	Social Impact / Customer Satisfaction	We can save countless lives of wildlife species, tribal people etc. Increase in co2 and other hazardous gases.
5.	Business Model (Revenue Model)	Large number of valuable trees , herbs, and other some medicinal plants will be used. More timber can be produced.
6.	Scalability of the Solution	The trained model is capable of adapting according to the datasets and the environmental situations