Project Design Phase-I
Proposed Solution

Date	19 October 2022
Team ID	PNT2022TMID29273
Project Name	Project - Emerging Methods for Early Detection of Forest Fires
Maximum Marks	2 Marks

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Early detection of forest fire • Detect the fire in initial stage. • Send a alert message to customer for attention .
2.	Idea / Solution description	The idea or solution is:- • Fire detection from video has become possible and more feasible in prevention of fire disaster due to deep convolutional neural networks (CNN) and embedded processing hardware. • Artificial intelligence (AI) methods generally require more computational time and hardware with powerful graphical processing unit (GPU).
3.	Novelty / Uniqueness	• To design lightweight NN(neural networks) for embedded applications.
4.	Social Impact / Customer Satisfaction	• Forest fires have become a serious threat to mankind. Besides providing shelter and protection to a large number of living beings, they have been a major source of food, wood, and a great supply of other products. • forests have played an important role in social, economic, and religious activities and have enriched human life in a variety of ways both material and psychological.
5.	Business Model (Revenue Model)	• By using this model forest officer can easy to detect the forest fire immediately. • Alerting System used to save the forest and confirm tourist safety.
6.	Scalability of the Solution	• There are more and more way for the scalability of the solution in which the model can be easily integrated and adoptable .