Project Design Phase-I
Proposed Solution

Team ID	PNT2022TMID13406
Project Name	Emerging methods for early detection of foerest fires
Team Leader	Sujitha.R
Maximum Marks	2 Marks

S.No.	Parameter	Description
1.	**Problem Statement (Problem to be solved)**	AI based Emerging methods for early detection of forest fires
2.	**Idea / Solution description**	A solution is needed that detects fires early by detecting smoke, hydrogen and other gases released by pyrolysis in the early stages of a wildfire, buying firefighters valuable time to extinguish the fire before it spreads out of control. Sensing solutions from Bosch Sensortec can help to reduce wildfires.
3.	**Novelty / Uniqueness**	Remote sensing Machine learning Wildfire prediction Data mining using **Artificial intelligence**
4.	**Social Impact / Customer Satisfaction**	The most important factors in the fight against the forest fires include the earliest possible detection of the fire event , the proper categorisation of the fire and fast response from the fire services . Several different types of forest fires are known , including ground fires , surface fires and crown / tree fires . Each of these types of forest fires is specific and the proper counteractions against it must be considered and implemented to successfully fight it . Over the years the detection of forest fires has been conducted in different ways , ranging from the use of forest outposts to fully automated solutions .
5.	**Business Model (Revenue Model)**	The annual losses from forest fires in India for the entire country have been moderately estimated at Rs 440 crores (US$ 107

Proposed Solution Template:

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