Project Design Phase-1

Proposed Solution Template

DATE	22 October 2022
TEAM ID	PNT2022TMID33969
PROJECT NAME	Emerging Methods for Early Detection of Forest Fires
MAXIMUM MARKS	2 Marks

Proposed Solution Template:

S.No	Parameter	Description
1.	Problem Statement	The most common hazard in forests is forests fire. Forests fires are as old as the forests themselves. They pose a threat not only to the forest wealth but also to the entire regime to fauna and flora seriously disturbing the biodiversity and the ecology and environment of a region.

2.	Idea	
۷.	luca	1. Check weather and
		drought condition
		2. Carefully dispose of
		smoking materials.
		3. Avoid any activities that
		involve fire or sparks
		when it's hot, dry and windy.
		4. High temperatures raise
		the flammability of dry
		grass, leaves, trunks, or
		pine tar
		5. Wildland fire managers
		must constantly assess the
		threat of human-caused
		fire to wildlands and the
		threat of wildland fires to
		humans.
		6. Human-caused fires result
		from campfires left
		unattended, the burning of
		debris, equipment use and
		malfunctions, negligently
		discarded cigarettes, and
		intentional acts of arson.

3. Novelty

Forest fires (wildfires) are common hazards in forests, particularly in remote or unmanaged areas. It is possible to detect forest fires, elevated CO2, and temperature levels using Internet of Things (IoT) sensors. You can deploy IoT, satellite and solar sensors in remote areas without the need for internet, cellular/mobile or mains power.

4. Social Impact

Blocked roads and railway electricity, mobile and lines, land telephone lines cut. destruction of homes and industries, and the way of life of many communities are annual news stories and the balance of the catastrophe caused by fire results in a wealth of articles, editorials and communications. A search in the newspaper archives reveals shocking figures, which we offer here to illustrate the magnitude of a which problem is now unsustainable and to which the politicians managers and responsible become have accustomed.

5.	Business Model	To support the entrepreneurial process, the business plan is of key importance. The business plan is a written document that describes all the relevant external and internal elements involved in starting a new venture. It is an integration of functional plans such as marketing, finance, manufacturing and human resources.
6.	Scalability of the Solution	Recommended strategies to be fully developed and implemented, they should collect substantial information about magnitude and timing of post-fire impacts. But the bottom line is that wildfire impacts should be incorporated into routine planning, protection and operations of forests watersheds and water sources.