Project Design Phase-1 Proposed Solution

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| Date | 19 October 2022 |
| Team ID | PNT2022TMID23834 |
| Project Name | Emerging methods for early detection of forest fires |
| Maximum Marks | 2 Marks |

P roposed Solution:

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| **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** | **Use fire pits in territories protected by the department of natural resources. prepare a bucket of water and a shovle to extinguish the bonfire.** |
| **3.** | **Novelty /Uniqueness** | **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** | **Monitoring of the potential risk areas and an early detection of forest fires can significantly shorten the reaction time.** |

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| **5.** | **Business Model(Revenue Model)** | **Due to various shapes,textures and colors of fires,forest fire detection is challenging task.** |
| **6.** | **Scalability of the Solution** | **Using a coupled multi-physics system to predict the evolution of a forest fires is the ability of capturing the effect of meteorological events .** |