Project Title: Early Detection of forest fire using deep learning **Project Design Phase-I Solution Fit Template** **Team ID:** PNT2022TMID19286

Define CS, fit into CC

1.CUSTOMER SERVICE (CS)

1. Tribal people and forest department officers living in forest.
2. Animals , birds and other living things in the forest.

6. CUSTOMER CONSTRAINTS (CC)

1. Solar power cameras can be used as a power source
2. Waterproof cameras.
3. Seamless connection.

5. AVAILABLE SOLUTIONS (AS)

1. Notification is sent via messages.
2. Fire alarm is activated to nearby stations.

EXplore AS, differentiate

Focus on J&P,into BE, understand RC

2. JOBS-TO-BE-DONE / PROBLEMS (J&P)

1. Detecting small fire sparks in forest becomes difficult.
2. Camera should always be in motion

9. PROBLEM ROOT CAUSE (RC)

1. Special analysis system can be used.
2. Wireless mobile network via SIM can be used transfer alert message throughout areas.

7. BEHAVIOUR (BE)

1. Climate change should be monitored.
2. Hot areas should be monitored clearly.

Focus on J&P, tap into BE, understand RC

Identify strong TR & EM

3. TRIGGERS (TR)

1. Correct detection.
2. Alarm alert
3. Follow correct algorithm

4. EMOTIONS: BEFORE / AFTER (EM)

BEFORE

1. Unable to detect small sparks.
2. camera should always be in motion.

AFTER

1. Able to detect small sparks.
2. 360 view of camera is used.

10. YOUR SOLUTION (SL)

1. Mobile application can be developed for specific areas.
2. Forest can be monitored by several cameras.
3. This can be used in wild life sanctuaries.

8. CHANNELS of BEHAVIOUR (CH)

ONLINE

Connected direc[1]tly to the user via Internet.

OFFLINE

Alerts can be sent via Offline messages and an alarm system is activated.

Identify strong TR & EM