Project Title:
IOT BASED SMART FARMING

Project Design Phase-I
Solution Fit Template

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1. CUSTOMER SEGMENT(S)

CS

- This project is mainly used to reduce the work load and mental illness of farmer.
- The irrigation system, plant monitoring system, temperature and humidity detection and animal.
- Monitoring 24/7 everyday.

2.JOBS-TO-BE-DONE / PROBLEMS

- Water scarcity problem.
- Efficient usage of natural water.
- The animals invading will be prohibited
- Temperature and humidity level.
- Plants growth can be monitored.

3. TRIGGERS

- The two large tanks are used inside and outside the ground in which the natural water that is rain water is used for present and future use.

4. EMOTIOMNS BEFORE & AFTER

- Security is maintained.
- Work load is reduced.
- Proper installation.

5. AVAILABLE SOLUTION

J&P

past they have used only water monitoring, temperature.

- In our project we added rain water storing tanks, temperature & pressure sensor, PIR sensor in single assembly.
- In addition camera is used to monitor the plants growth

6. CUSTOMER CONSTRAINTS

- Low budget.
- Automatic monitoring
- Reduced man power
- Reduce the farmer's stress
- Rain water is effectively used

7.BEHAVIOUR

- Rain water monitoring is used.
- Farmer's can view the crops in the system during its free time.
- Whenever there is emergency ab alarm beam will get activated and intimates the farmer.
- The water pump is used to transfer water from underground to the surface

	8.CHANNELS OF BEHAVIOUR • **ONLINE :** Nutrients of the plants, humidity, temperature, motion of animals through app. • **OFFLINE :** The equipments and components should be checked.	**9. PROBLEM OF ROOT CAUSE** • Ground water scarcity problem is solved by using rain water. • Animal invading is prohibited. • Temperature & humidity is maintained.	**10. YOUR SOLUTION** • The plant is monitoring 24/7 with less power. • The implementation cost is low. • The rare crops can also be grown. • Automatic monitoring without using man power.	