Project Title:

IOT BASED SMART FARMING

**Project Design Phase-I
Solution Fit Template**

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1. CUSTOMER SEGMENT(S) CS

ect is mainly used to reduce the
l and mental illness of farmer.

tion system, plant monitoring
mperature and humidity detection
l.

g 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	9. PROBLEM OF ROOT CAUSE	10. YOUR SOLUTION
- **ONLINE :** Nutrients of the plants, humidity, temperature, motion of animals through app. - **OFFLINE :** The equipments and components should be checked.	- Ground water scarcity problem is solved by using rain water. - Animal invading is prohibited. - Temperature & humidity is maintained.	- 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.