

IBM Report (Nalaiya Thiran)
IOT based Smart Farming

SUBMITTED BY

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SOLUTION FIT

1. CUSTOMER SEGMENT(S) CS

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

tion system, plant monitoring
emperature and humidity detection
il.

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

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

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.

<p>8. CHANNELS OF BEHAVIOUR</p> <ul style="list-style-type: none"> ● ONLINE : Nutrients of the plants, humidity, temperature, motion of animals through app. ● OFFLINE : The equipments and components should be checked. 	<p>9. PROBLEM OF ROOT CAUSE</p> <ul style="list-style-type: none"> ● Ground water scarcity problem is solved by using rain water. ● Animal invading is prohibited. ● Temperature & humidity is maintained. 	<p>10. YOUR SOLUTION</p> <ul style="list-style-type: none"> ● 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.
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