Project Title: IOT BASED SMRAT CROP PROTECTION FOR AGRICULTURE
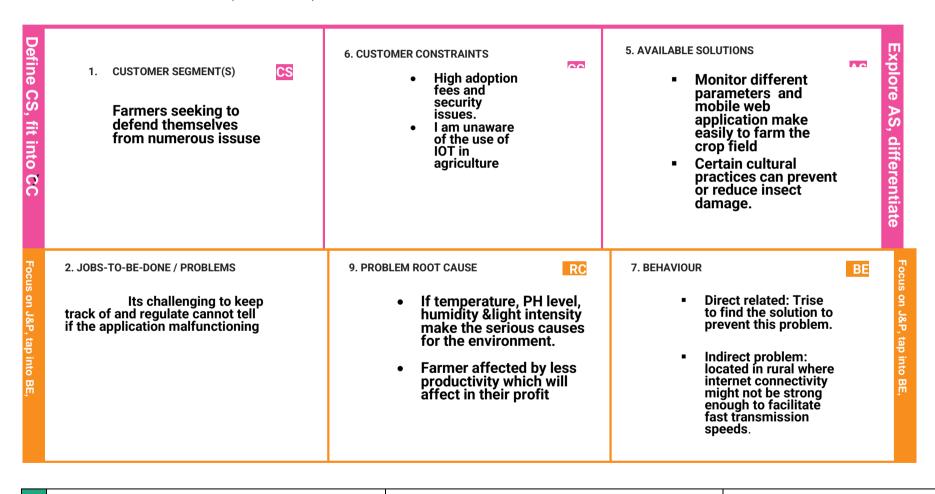**Project Design Phase-I** - **Solution Fit Template**
Team ID: PNT2022TID30647
Maximum mark:

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Define CS, fit into CC	1. CUSTOMER SEGMENT(S) **CS** **Farmers seeking to defend themselves from numerous issue**	6. CUSTOMER CONSTRAINTS **CC** • **High adoption fees and security issues.** • **I am unaware of the use of IOT in agriculture**	5. AVAILABLE SOLUTIONS **AS** ▪ **Monitor different parameters and mobile web application make easily to farm the crop field** ▪ **Certain cultural practices can prevent or reduce insect damage.**	Explore AS, differentiate
Focus on J&P, tap into BE,	2. JOBS-TO-BE-DONE / PROBLEMS **Its challenging to keep track of and regulate cannot tell if the application malfunctioning**	9. PROBLEM ROOT CAUSE **RC** • **If temperature, PH level, humidity &light intensity make the serious causes for the environment.** • **Farmer affected by less productivity which will affect in their profit**	7. BEHAVIOUR **BE** ▪ **Direct related: Trise to find the solution to prevent this problem.** ▪ **Indirect problem: located in rural where internet connectivity might not be strong enough to facilitate fast transmission speeds.**	Focus on J&P, tap into BE,

3. TRIGGERS **TR**	10. YOUR SOLUTION **SL**	8. CHANNELS of BEHAVIOUR **CH**
• **Agriculture can make the architectural process more effective, efficient**	**"IOT BASED SMART CROP PROTECTION SYSTEM FOR AGRICULTURE"!!**	✓ **ONLINE: The data send through applications for the farmers to know about the**

and environmentally friendly.

- **Security aspects must be incorporated in order to create new functions**.

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4. EMOTIONS: BEFORE / AFTER   `EM`

- **Before: Money, severe workload, and interpersonal difficulties**
- **After: Making will be simpler, greater field yield.**

➢ **It helps farmer grow more food on les land by protection crop from pests, diseases and weeds as well as rising productivity per hectare**

farms.

✓ **OFFLINE: The control action is taken by the farmers to monitor the farms**