Project Design Phase-I Problem Solution Fit

| Date | 19 September 2022 |
|---------------|------------------------------------------------------------------------|
| Team ID | PNT2022TMID25913 |
| Project Name | Project-Exploratory Analysis of Rainfall data in India for Agriculture |
| Maximum Marks | 4 Marks |

Project Title: Exploratory Analysis of Rainfall data in India for Agriculture Project Design Phase-I - Solution Fit Template Team ID: PNT2022TMID: 25913 1. CUSTOMER SEGMENT(S) 6. CUSTOMER CONSTRAINTS 5. AVAILABLE SOLUTIONS cs as are available to the customers when they face the What constraints prevent your customers from taking action or limit their choices of solutions? i.e. spending power, budget, no cash, network connection, available Which solutions are avariable to the constraint and in the past? What pros & cons do these solutions have? i.e. pen and paper is an alternative to digital Who is your customer? i.e. working parents of 0-5 y.o. kids CS, 1. Farmers and farming industries 1. Internet connection in rural areas Flood forecasting using the Internet of things and Agencies fit into 2. Basic knowledge to handle technology artificial neural networks - India is one of the 3. Government departments 3. Cost limitation worst flood-affected countries in the world based 4. Time limitation on annual rainfall. They use a number of IoT and based techniques but the challenge is that no S one has attempted the possibility of the occurrence of flood rainfall intensity. 2. JOBS-TO-BE-DONE / PROBLEMS J&P 9. PROBLEM ROOT CAUSE 7. BEHAVIOUR What does your customer do to address the problem and get the job dong?

Le. directly related: find the right solar panel installer, calculate usage and benefits; indirectly associated: customers spend free time on volunteering work (i.e. Which jobs-to-be-done (or problems) do you address for your customers? There could be more than one; explore different sides. What is the real reason that this problem exists? What is the back story behind the need to do i.e. customers have to do it because of the change in regulations. 1. To provide an accurate rainfall prediction 2. To prevent the crops from any extreme 1. Extreme climate changes Focuses on the nature of weather conditions 2. Loss in Biodiversity decision-making by the farmers 3. Managing the yield of the agricultural 3. Global warming and the factors that influence their products decision. TR 3. TRIGGERS 10. YOUR SOLUTION 8. CHANNELS of BEHAVIOUR If you are working on an existing business, write down your current solution first, fill in the canvax, and check how much it fits reality.

If you are working on a new business proposition, then keep it blank until you fill in the canvax and come up with a solution that fits within customer limitations, solves a problem and matches customer behavior. 8.1 ONLINE
What kind of actions do customers take online? Extract online channels from #7 Identify strong TR & EM 8.2 OFFLINE To develop innovation to predict the rainfall to What kind of actions do customers take of and use them for customer development ners take offline? Extract offline channels from #7 save water and crops 1. In our analysis we are trying to understand the behavior of rainfall in India over the years, by 8.1 ONLINE months, and by different subdivisions. • E-Commerce for agriculture business 4. EMOTIONS: BEFORE / AFTER How do customers feel when they face a problem or a job and afterwards? i.e. lost, insecure > confident, in control - use it in your communication strat 2. The trend analysis of Annual rainfall Expanded customer base considering India as a whole, shows that it is 8.2 OFFLINE important to study subdivisions for better Your local newspapers or area Before: Helpless, Hopeless, Lost forecasting. magazines. After: Hopeful, confident 3. Significant need for an appropriate · By visiting a farmer's market contact

water irrigation system taking consider of the

rising water scarcity.