## **Solution Requirements (Functional & Non-functional)**

Date	03 October 2022
Team ID	PNT2022TMID11096
Project Name	Project - lot Based Smart Crop Protection System for Agriculture
Maximum Marks	4 Marks

## **Functional Requirements:**

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Requirements	Crop Protection System
		Automatic Sprinkler System
		Monitors Soil Moisture and ph ,Humidity and
		Temperature.
FR-2	User Registration	Manual Registration
		Registration through webpage
		Registration through Form
		Registration through Gmail
FR-3	User Confirmation	Confirmation via Phone
		Confirmation via Email
		Confirmation via OTP
FR-4	Payment Options	Cash on Delivery
		Net Banking/UPI
		Credit/Debit/ATM Card
FR-5	Product Delivery and	Door Step delivery
	Installation	Take away
		Free Installation and 1 year Warranty
FR-6	Product Feedback	Through Webpage
		Through Phone calls
		Through Google forms

## **Non-functional Requirements:**

Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Have a clear and self-explanatory manual.  Easier to use  Even an illiterate farmer have to use the product without any difficulties
NFR-2	Security	Application has to be secured with 2 step authorisation Passwords and passkeys will be assigned as per the users need.
NFR-3	Reliability	Hardware requires a regular checking and service Software may be updated periodically Immediate alert is provided in case of any system failure
NFR-4	Performance	The application must have a good user interface It should have a minimal energy requirement It has to save water and energy
NFR-5	Availability	All the features will be available when the user requires. It depends on the need of the farmer and the customization the user has done.
NFR-6	Scalability	The product has to cover all the space of land irrespective of the size or area of a farm field.