

Project Design Phase-I

IDEAS FOR IMPLEMENTATION

Date	15 October 2022
Team ID	PNT2022TMID53961
Project Name	Project – Smart Farmer-IoT Enabled smart Farming Application.
Maximum Marks	4 Marks

Sensor Technology in Agriculture:

Vast variety of sensors are used in agricultural products such as soil moisture sensors, water-level sensors, equipment used to sample the state of the atmosphere at a given time meteorological sensors (monitors the current state of atmosphere), heavy metal detection sensors, biosensors (detection of an Analyte), gas sensors (detects presence of gas).

Intelligent irrigation Technology:

Based on satellite positioning network and "shallow wells underground cables + field + automatic irrigation system pipe" technology, it can accumulate irrigation water, irrigation, electricity, and time data to accomplish automation of farmland irrigation and

through a complete analysis of information technology software to monitor irrigation.

Radio Transmission Technology in Agriculture:

Self-organizing wireless data transmission can be achieved with ZigBee wireless sensor networks. In large-scale farming, it has been widely used for data transmission.