

A patented microcontroller based intelligent pump controller

Domain: Agri-technology & Agri-inputs

Technology: Technology solution for problems in farm irrigation. Patented and IoT Enabled Farmer Obedient Pump Controller for farmers facing erratic power and water conditions. Direct beneficiaries are the farmers.



Field Programmable with password protection. Works on top of any kind of pump technology. IoT and Sensor based modular offering, Analytics.

Technology Status: Patent granted Pump Controller technology. Product is ready and available.

Value Proposition: The integration of smart technologies helps to minimize the utilization of natural resources. Smart technologies help to monitor the soil condition, weather, water level, and watering schedule. Smart technologies such as the internet of things (IoT), artificial intelligence, and machine learning are being integrated into the irrigation system.

Technology Features:

AI Driven and IoT ready Farmer Obedient Motor Controller for electric water pumps on agriculture farms used for irrigation with an ability to cover up the lost time.

This can be used by individual farmers and its precision operations save a lot of water, power and eliminate the need for manual intervention to operate the pumps.

Product with connect and forget utility (No Human Intervention required).

Applications: Its precise operation brings relief to the farmer from the rigorous, intense, and daily activity of pump operation. To control the operation of a pump motor, which on restart operates for an extending period to make-up the lost time due to non-availability of resources (water & power). To control the operation of pump motor to eliminates excessive manual intervention and avoid Dry Run.

Market Potential: The global irrigation automation market is witnessing the rapid growth from the past few years, due to the rising adoption of an automated and semi-automated irrigation system in the agriculture

Requirements: Technology Transfer, Commercialization, Licensing, Contract manufacturing.