

INSTITUTION'S INNOVATION COUNCIL MOE'S INNOVATION CELL

Institute Name:

Kongu Engineering College

Title of the Innovation/Prototype:

Automatic Water Sprinkler Machine Using Smart Irrigation System

Team Lead Name:

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Team Lead Phone:

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Team Lead Gender:

Male

FY of Development:

2022-23

Developed as part of:

Independent Assignment/Non-academic Study
Project

Innovation Type:

Product,Business/Management Innovation

TRL LEVEL:

3

Theme:

Agriculture & Rural Development, IoT based technologies (e.g. Security & Surveillance systems etc),

Define the problem and its relevance to today's market / society / industry need:

Nowdays the water wastage is increasing day by day and also water necessity is more for future. Sprinkler irrigation is required in areas where a change in temperature of the earth, environment, and humidity is seen. The continuous sprinkling of water improves the physical conditions and composition of the soil.

Describe the Solution / Proposed / Developed:

Sprinkler irrigation systems are involved in collecting water from a well or even from a river or reservoir, directly. It can be used on hilly terrain and distributes water very smoothly. Conservation of water or water-saving is greater than that of other systems. Sprinkler irrigation is required in areas where a change in temperature of the earth, environment, and humidity is seen. The continuous sprinkling of water improves the physical conditions and composition of the soil.

Explain the uniqueness and distinctive features of the (product / process / service) solution:

Sprinkler irrigation systems are involved in collecting water from a well or even from a river or reservoir, directly. It can be used on hilly terrain and distributes water very smoothly. Conservation of water or water-saving is greater than that of other systems.

How your proposed / developed (product / process / service) solution is different from similar kind of product by the competitors if any:

Sprinkler irrigation is done in areas with less water and uneven ground level. The main pipeline is laid in the field. They are joined to perpendicular pipelines with rotating nozzles. Water from the tube wells is allowed to pass through these pipelines under pressure, which escapes from the rotating nozzles and gets sprinkled on the crops.

Is there any IP or Patentable Component associated with the Solution?:

No

Has the Solution Received any Innovation Grant/Seefund Support?:

No

Are there any Recognitions (National/International) Obtained by the Solution?:

No

***Is the Solution Commercialized either through Technology Transfer or Enterprise Development/Startup?:**

No

Had the Solution Received any Pre-Incubation/Incubation Support?:

No

Video URL:

null

Innovation Photograph:

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