

(54) Title of the invention : IAEC- SYSTEM: INTELLIGENT IOT SYSTEM FOR AGRICULTURE ENVIRONMENT CONTROL

(51) International :A01G0007040000,A01G0009240000,A01G0022000000,A01B0079000000,G06Q0050020000 classification

(31) Priority Document :NA No

(32) Priority Date :NA

(33) Name of priority :NA country

(86) International Application :NA No :NA Filing Date

(87) International Publication : NA No

(61) Patent of Addition to Application :NA Number :NA Filing Date

Divisional to Application :NA Number :NA Filing Date

(71)Name of Applicant :

1)DR. M. SHANMUKHI (ASSOCIATE PROFESSOR, DEPARTMENT OF IT)
Address of Applicant :MAHATMA GANDHI INSTITUTE OF TECHNOLOGY, GANDIPET, HYDERABAD, TS. E-mail: shanmukhi.m@gmail.com
Telangana India

2)NAZIA TABASSUM (ASSISTANT PROFESSOR, DEPARTMENT OF IT)

3)ANIL KUMAR GHADIYARAM (DIRECTOR & ASSOCIATE PROFESSOR, DEPARTMENT OF ECE)

4)P. MUKESH

5)DR. R. RAJA KUMAR (ASSOCIATE PROFESSOR, DEPARTMENT OF CSE)

6)ARIFA TEHSEEN ARA

7)N SREE DIVYA (ASSISTANT PROFESSOR, DEPARTMENT OF IT)

8)K HARINATH (ASSISTANT PROFESSOR, DEPARTMENT OF IT)

9)DR. ARUNA RAO SL (PROFESSOR & HEAD, DEPARTMENT OF IT)

10)DR. D VIJAYALAKHSMI (PROFESSOR & HEAD, DEPARTMENT OF IT)

11)DR. C RAMESH KUMAR REDDY (PROFESSOR & HEAD, DEPARTMENT OF CSE)

(72)Name of Inventor :

1)DR. M. SHANMUKHI (ASSOCIATE PROFESSOR, DEPARTMENT OF IT)

2)NAZIA TABASSUM (ASSISTANT PROFESSOR, DEPARTMENT OF IT)

3)ANIL KUMAR GHADIYARAM (DIRECTOR & ASSOCIATE PROFESSOR, DEPARTMENT OF ECE)

4)P. MUKESH

5)DR. R. RAJA KUMAR (ASSOCIATE PROFESSOR, DEPARTMENT OF CSE)

6)ARIFA TEHSEEN ARA

7)N SREE DIVYA (ASSISTANT PROFESSOR, DEPARTMENT OF IT)

8)K HARINATH (ASSISTANT PROFESSOR, DEPARTMENT OF IT)

9)DR. ARUNA RAO SL (PROFESSOR & HEAD, DEPARTMENT OF IT)

10)DR. D VIJAYALAKHSMI (PROFESSOR & HEAD, DEPARTMENT OF IT)

11)DR. C RAMESH KUMAR REDDY (PROFESSOR & HEAD, DEPARTMENT OF CSE)

(57) Abstract :

My invention IAEC- System • An Internet-of-Thing (IoT) method for improving ROI of farming includes placing a plurality of advanced sensor hubs in predetermined locations in a farm, each hub including a meteorological data acquisition system and an environmental data collection system; and monitoring key elements in the growing of plants from a plurality of sensor hubs including lighting, humidity, temp, soil moisture, and elements that influence plant growth. The invented system may include one or more of the following. The system provides a Multi-Channel Wavelength Smart control design that enables researcher and grower to setup and optimize the efficiency of lighting receipt, and additionally to dim, shutdown and turn off the bright/darkness cycle in order to provide effective PPF during the bright and dark period. The computer systems and controllers are capable of permitting farmers and farming business to exercise extremely precise control over almost every aspect of a farming operation, such as fertilizing, planting, spraying or harvesting crops.

No. of Pages : 28 No. of Claims : 9