

(12) PATENT APPLICATION PUBLICATION

(21) Application No. 201731027568 A

(19) INDIA

(22) Date of filing of Application : 03/08/2017

(43) Publication Date : 08/09/2017

(54) Title of the invention A SYSTEM FOR PRECISE FARM MONITORING AND MICROCLIMATE CONTROL

(51) International classification	:G01P5/00	(71)Name of Applicant :
(31) Priority Document No	:NA	1)CENTURION UNIVERSITY OF TECHNOLOGY & MANAGEMENT (CUTM)
(32) Priority Date	:NA	Address of Applicant :HIG – 5, Phase -1, BDA Duplex
(33) Name of priority country	:NA	Pokhariput, Khurda District, Bhubaneswar – 751020 Odisha, India
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)Aamlan Saswat Mishra
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention proposes a system for precise farm monitoring and microclimate control. The system comprises plurality of sensors in communication with a processor to detect farm parameters and transmit sensed values such as temperature, humidity, pH, methane and thereof to the processor. The processor is configured to compare the values with predetermined limits stored in the processor and thereby control the connected devices such as foggers to spray water vapor into the environment for maintaining the temperature between of the farm of a place between wet bulb and dry bulb temperature, fertilizer valve to supply nutrients, irrigation pump to supply water and thereof. The farmers, sharecroppers and the like can trade and display yield on a global market through the application module of the system which also facilitates precise farm monitoring. The invention is advantageous in providing farmers, sharecroppers and the like the flexibility of shifting crop seasons and obtains high yield not limiting themselves to the seasonal crops and expose farmers, sharecroppers and the like to global market.

No. of Pages : 16 No. of Claims : 10