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(54) Title of the invention : AN AUTOMATED IOT BASED AGRICULTURE MONITORING SYSTEM SUPPORTED BY WIND ENERGY AND MEASURE VARIOUS PARAMETERS

<p>(51) International :A01G0025160000,A01B0079000000,G06Q0050020000,A01M0007000000,A01B0079020000 classification (31) Priority Document :NA No (32) Priority Date :NA (33) Name of priority :NA country (86) International Application :PCT// No :01/01/1900 Filing Date (87) International Publication :NA No (61) Patent of Addition to :NA Application :NA Number :NA Filing Date (62) Divisional to Application :NA Number :NA Filing Date</p>	<p>(71)Name of Applicant : 1)Dr.A.RAMASWAMY REDDY Address of Applicant :S/O A.Bhikshu reddy Malla Reddy Engineering College (Autonomous), Maisammaguda, Secunderabad - 500100 Telangana State India Telangana India 2)Dr.G.CHARLES BABU 3)Dr.R. P. RAM KUMAR 4)Dr. KANNAN SHANMUGAM 5)Mr.P V RAMANA MURTHY 6)Mr.MORE SWAMI DAS 7)Mr.SANJEEVA POLEPAKA 8)Mr.P.ANDREWS HIMAKIRAN 9)Mr.S.AJAY KUMAR 10)Mr.K.V.RAGHAVENDER (72)Name of Inventor : 1)Dr.A.RAMASWAMY REDDY 2)Dr.G.CHARLES BABU 3)Dr.R. P. RAM KUMAR 4)Dr. KANNAN SHANMUGAM 5)Mr.P V RAMANA MURTHY 6)Mr.MORE SWAMI DAS 7)Mr.SANJEEVA POLEPAKA 8)Mr.P.ANDREWS HIMAKIRAN 9)Mr.S.AJAY KUMAR 10)Mr.K.V.RAGHAVENDER</p>
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(57) Abstract :

An Automated Agricultural Land Monitoring System with Plurality of Sensors and Detect Various Parameters associated thereto is an invention that will lead for better cultivation practices and Yields. Also the entire system is run using Renewable energy resource which is a need of the hour invention. Wind energy is used to run and maintain the agricultural monitoring system. Agriculture depends on various parameters and factors that are artificially created because of current agricultural methods or practices. Soil parameters are most important factors since no agriculture can be carried out without soil and they has to be maintained and replenished also. Reducing the amount of water used that is irrigation is next important factor that has to be monitored since Agriculture mostly depends on monsoon rains that are drastically reduced in the recent times. The invention will collect all the related parameters and the same data will be stored in the centralized server on hourly basis so that it helps the farmer to get along with a analysis report and plan their cropping accordingly. Thus the invention is advantageous since it reduces cost, water, amount of pesticides required, quantity of fertilizers required in turn helping the farmer to practice a smart agricultural method and the entire system runs using the energy supplied by the wind mill.

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