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<p>(51) International classification :H01M0008160000, A01G0009020000, G06N0020000000, F24F0110500000, G01N0033180000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)NOIDA INSTITUTE OF ENGINEERING & TECHNOLOGY Address of Applicant :19, KNOWLEDGE PARK-II, INSTITUTIONAL AREA, GREATER NOIDA-201306, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, INDIA ----- -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)MR. RAHUL KUMAR SHARMA Address of Applicant :Noida Institute Of Engineering & Technology, 19, Knowledge Park-II, Institutional Area, Greater Noida-201306, Gautam Buddha Nagar, Uttar Pradesh, India Greater Noida ----- 2)MS. MEGHA GUPTA Address of Applicant :Noida Institute Of Engineering & Technology, 19, Knowledge Park- II, Institutional Area, Greater Noida-201306, Gautam Buddha Nagar, Uttar Pradesh, India Greater Noida ----- 3)DR. KUMUD SAXENA Address of Applicant :Noida Institute Of Engineering & Technology, 19, Knowledge Park- II, Institutional Area, Greater Noida-201306, Gautam Buddha Nagar, Uttar Pradesh, India Greater Noida ----- 4)DR. RAMAN BATRA Address of Applicant :Noida Institute Of Engineering & Technology, 19, Knowledge Park- II, Institutional Area, Greater Noida-201306, Gautam Buddha Nagar, Uttar Pradesh, India Greater Noida -----</p>
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(57) Abstract :

The present invention relates to an iot-based plant care system (100) for providing healthy environment to indoor plants. The system (100) further includes a smart plant pot (102) which is made up of a recycled material. The smart plant pot (102) further includes microbial fuel cell (202), solar panel (204), plurality of air quality sensors (206a-206n) and controller (208). The method involves enabling solar panel (204) to generate electricity. The method involves enabling microbial fuel cell (202) to generate electricity using natural processes of plant. The method includes activating air quality sensors (206a-206n) to collect data. The method involves allowing air quality sensor (206a-206n) to send collected data to controller (208) for further processing. The method involves enabling controller (208) to process and analyze collected data using machine learning algorithms to determine plant condition. The method involves transmitting, plant condition and plant care tips to mobile application (114).

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