

(54) Title of the invention : SYSTEM AND METHOD FOR MONITORING CROP AND LIVESTOCK

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| <p>(51) International classification :A01K 010000, A01K 050100, A01K 050200, A01K 070200, G06Q 500200</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 :</p> <p>1)Chitkara University Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----</p> <p>2)Chitkara Innovation Incubator Foundation Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)WADHWA, Heena Address of Applicant :Chitkara University Institute of Engineering and Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----</p> <p>2)KAUR, Mandeep Address of Applicant :Chitkara University Institute of Engineering and Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----</p> <p>3)Htet Ne OO Address of Applicant :Chitkara University Institute of Engineering and Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----</p> <p>4)NELSON, Leema Address of Applicant :CURIN, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----</p> |
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(57) Abstract :

The disclosed embodiments illustrate a system (100) for monitoring crops and livestock from a remote location and predicting risks corresponding to weather and health of livestock. The proposed system (100) includes a first set of sensors (102) to monitor attributes of agricultural field and a second set of sensors (104) to monitor farms where livestock lives. Additionally, the system includes a processing unit 106 configured to receive data collected by the first set of sensors (102) and the second set of sensors (104) and applies machine learning techniques for predictive analysis of the received data. Further, corresponding to prediction analysis, risk is evaluated and transmitted to farmers on associated mobile computing devices through a LoRaWan network (110).

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