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A REVIEW

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SMART farming - A new prospect in Agriculture Sector under Cold Arid Region of Ladakh, India

S. Angchuk*, K. Lamo, R. Safal, S. Dorjay, D. Namgail **and** Phuntsog Tundup¹ Krishi Vigyan Kendra, Leh (Ladakh) India (Email : angchuks@gmail.com)

Abstract: Indian agriculture has achieved many milestones from traditional to subsistence, and from modern to the emerging 'Smart Farming' era. This has eventually propelled the country into the ranks of food-sufficient nations, ensuring food security for all of us. Smart farming is the management of farms that uses technologies such as the Internet of Things (IoT), robotics, drones, and artificial intelligence (AI) to increase the quantity and quality of products while decreasing the amount of human labour required for production. Smart farming is paving the way for the country's agricultural production to become more productive and sustainable, based on a more accurate and resource-efficient method. The paper provides a detailed analysis of various smart farming technologies, with a particular emphasis on IoT and their applications.

Key Words: Artificial intelligence, Robotics, Drones, Sustainable, Productive, Smart farming, Food security

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