

# Smart Plant Monitoring System Using IoT

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**Abstract:** Agriculture plays an important role in developing countries. Ordinary people in India are dependent on agricultural production. There are many problems that hinder the development of agriculture in the international development zone. Therefore, the aim is to make the farm "state of the art" through automation and IoT technologies. Water scarcity is extremely troubling for agriculture in this state. Automation of agriculture can transform manual and static processes into smart and dynamic farming and increase productivity with less human intervention.

## Objective:

The predominant cause of this mission is to offer a sizeable irrigation gadget, accordingly saving the farmer time, cash and attempt. Traditional field irrigation methods require guide intervention. With computerized irrigation technology, human intervention can be saved to a minimal.

**Keywords:** IOT, WSN, HTML, CCM, XML

## REFERENCES

- [1] Anurag D, Siuli Roy and SomprakashBandyopadhyay, "Agro-Sense: Precision Agriculture using Sensor-based Wireless Mesh Networks", ITU-T "Innovation in NGN", Kaleidoscope Conference, Geneva 12-13 May 2008.
- [2] C. Arun, K. Lakshmi Sudha "Agricultural Management using Wireless Sensor Networks – A Survey" 2nd International Conference on Environment Science and Biotechnology IPCBEE vol.48 (2012) © (2012) IACSIT Press, Singapore 2012.
- [3] Bogena H R, Huisman J A, Oberdörster C, et al. Evaluation of a low cost soil water content sensor for wireless network applications [J]. Journal of Hydrology, 2007.
- [4] R.Hussain, J.Sehgal, A.Gangwar, M.Riyag "Control of irrigation automatically by using wireless sensor network" International journal of soft computing and engineering, vol.3, issue 1, march 2013.
- [5] Izzatdin Abdul Aziz, Mohd Hilmi Hasan, Mohd Jimmy Ismail, Mazlina Mehat, Nazleeni Samiha Haron, "Remote Monitoring in Agricultural Greenhouse Using Wireless Sensor and Short Message Service (SMS)", 2008.
- [6] Jeonghwan Hwang, Changsun Shin, and Hyun Yoe "Study on an Agricultural Environment Monitoring Server System using Wireless Sensor Networks", 2010.
- [7] Ning Wang, Naiqian Zhang, Maohua Wang, "Wireless sensors in agriculture and food industry—Recent development and future perspective", published in Computers and Electronics in Agriculture 2006.
- [8] Pepper Agro, "M-Drip Kit" Internet: [www.pepperagro.i/mdripkitmanual.html](http://www.pepperagro.i/mdripkitmanual.html) Siuli Roy, SomprakashBandyopadhyay, "A Test-bed on Real-time Monitoring of Agricultural Parameters using Wireless Sensor Networks for Precision Agriculture" 2007.
- [9] Yiming Zhou, Xianglong Yang, Liren Wang, Yibin Ying, A wireless design of low-cost irrigation system using ZigBee technology, International Conference on Networks Security, Wireless Communications and Trusted Computing, IEEE 2009.
- [10] Zhang xihai, Zhang changli Fang junlong. Smart Sensor Nodes for Wireless Soil Temperature Monitoring Systems in Precision Agriculture 2009.