

Evaluation of Map-Based Control System for Application of Fertilizer

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Abstract: *Preserving environment in farming is now becoming main concern since use of inputs like fertilizers & pesticides has been widely employed. Site-specific application of agricultural chemicals is an effective way of resource saving and environmental protection. Precision farming implementation is now gaining popularity and widely accepted as one of smart solutions to sustain agriculture production without ignoring environment. This paper is based on results of map analysis, where map of soil can be developed based on (1) soil type (chemical composition of soil) (2) soil colour and texture (3) topography (high ground, low ground) (4) crop yield. As per results of chemical analysis, system is developed for controlling opening of outlet of valve for delivery of proper chemical composition (i.e., fertilizer) in same soil by controlling D.C. motor. Through this system, it is possible to improve agricultural production without ignoring environment, [1]*

Keywords: Precision Farming, Map Based Technique, Variable Rate Applicator, etc.

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