**A Project Synopsis Report on**

**“An Astute Irrigation System with Crop Management and Marketing”**

**Submitted in partial fulfillment of the requirement for**

**Degree in Bachelor of Engineering (Information Technology)**

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**ABSTRACT**

The rapidly increasing population of India demands more food production and for more food production more water is required. Our traditional system of farming totally depends on conventional irrigation systems like pulley system, lever system, chain pump , Check Basin Method, Furrow Irrigation Method, Strip Irrigation Method, Basin Irrigation Method etc. Among these the pump system is most common and used widely, but for that presence of individual is required to check the water level. Sometimes it’s not possible for the farmer to be present. The farmer faces difficulty in managing all farming activities alone. In addition warming climate is drying up lakes and rivers, while rapid urbanization and water pollution are putting enormous pressure on the quantity and quality of available water. A conventional irrigation system leads to wastage of water making it difficult for the farmers to manage the all agricultural tasks.

Adhering to this problem we want to propose a solution which will help to solve problems of conventional irrigation system like wastage of water, maintaining balanced supply of water to crop etc. The proposed system will help the farmer to automate farming activities like regulating the power supply to water motor, checking soil and water quality, monitoring of water level etc. It also aids in crop management activities like crop selection which takes into account the available soil type and the market needs. For crop marketing the application provides latest information of market price of crop, selling options of crop, profitability by providing different selling options etc. All farmers can access this information through their mobile.

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Mrs. Kalpana Wani