

SIDDAGANGA INSTITUTE OF TECHNOLOGY, TUMKUR-572103
(An Autonomous Institute under Visvesvaraya Technological University, Belgaum)



Project Report
on

“SMART FARMER ASSISTANT”

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submitted in partial fulfillment of the requirement for the award of the degree of

BACHELOR OF ENGINEERING
in
ELECTRONICS AND COMMUNICATION

submitted by

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ABSTRACT

Agriculture is known as back bone of India. More than 60% of the Indian population mainly depends upon agriculture. It also plays a major role in the economy of the country. The farmer, whose daily bread is from agriculture, is usually unaddressed for various problems he faces in his practice. The drought, pests, diseases to the plants, and fluctuating market rates lets him in trouble always. The farmer is very far away from the agricultural experts and the help centers often, and it becomes difficult for him to communicate. Lack of connectivity between the farmer and the experts is a major issue which leads the problem unaddressed. Even though government has taken several measures to solve the problems of the farmer, it often goes in vain. The problem is due to the lack of good connectivity between the government organization and the farmer.

There is an immense need of setting this communication gap between the farmer and the experts in agriculture. The project aims at filling the gap by providing an efficient connectivity between the farmer and agricultural experts. The system consists of a simple device which will provide an interface between the farmer and the database, maintained by the agricultural experts.

There are two sections in the project. The first part is the equipment which will be assisting the farmer in farmland. The second part is computer database. The connectivity is provided by the GSM communication system. The device provides features like crop doctor, crop recommendation, market value, weather forecast etc. The database responds to the queries sent by the device automatically.