

The Smart devices in the agriculture field consist of some key features. They are as follows:

- Different agricultural parameters like Temperature, Wind, Humidity, and Moisture can be controlled and monitored by using sensors.
- Generates and Schedules a plan for irrigation and fertilization.
- Data can be obtained through wireless speckles.
- Provides external memory interface for the purpose of feeding and desertification.
- Provides awareness to the farmers by alerting while he is away from the field.
- Controls the equipments in the field through sensor devices like mobile phones, Tablets, computers *etc.*

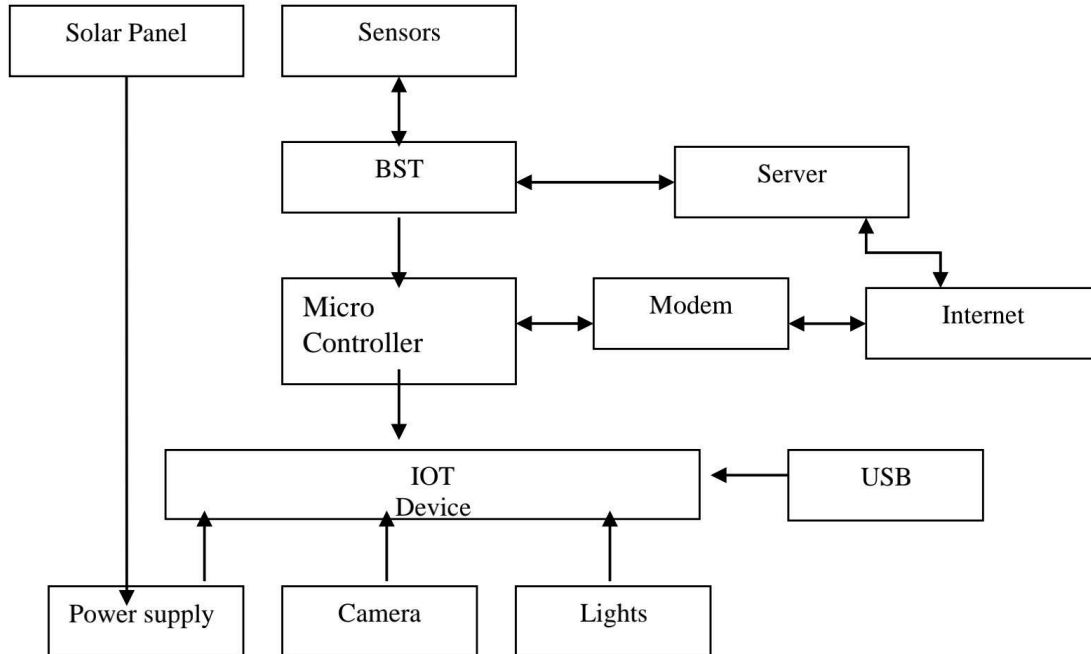


Fig. 3 Architecture of Smart Farming System

The above figure represents the architecture of the smart farming system in the agriculture. The block diagram consists of following:

1. Solar Panel acts as a power source and offers an opportunity to stabilize the energy cost to the farmers. These solar panels are of three types namely:
 - a. Grid solar: This reduces the final cost for the power utilization for the home and business. The energy generated from the sun is utilized by this panel and earns the credits which are used further.
 - b. Hybrid solar: These are used as power bank to the systems which are used for backup purpose. The power is supplied to the grid via battery bank in the event of power of outage.
 - c. Off-grid solar: These type of solar panels are independently used for a remote location and are limited.