



**VISVESVARAYA TECHNOLOGICAL UNIVERSITY  
BELGAUM**

**A  
Project Report  
on**

***“AGRICULTURAL APPLICATIONS USING  
HYBRID POWERS”***

Submitted in partial fulfillment of the requirements for the award of Bachelor of Engineering degree in Instrumentation Technology during the year 2010-11.

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## **Abstract**

Agriculture is the backbone of our country. Indian economy is mainly dependent on the agriculture but the farmers are facing a number of problems due to technical backwardness, effects of climatic changes like heavy rains on the crops etc.

The current project is designed in a view to beneficiate farmers to some extent to the present technology and its utilization in their work. The main aim of the project is to make use of unconventional energy sources like solar and wind energies to generate electrical energy and implement various agricultural applications. The solar panel rotates (or tilts) according to the sun's direction to absorb maximum energy. The energy from solar panel is stored in a battery and then water is pumped into the fields using a suitable pump. Also, the power is utilized for lighting of the street light and wrapping the fields during heavy rains to protect the crops from getting damaged.

Thus, the system can be assumed to act as eco-friendly and also to serve as a boon to the farmers and hence to be farmer-friendly.