

# EEE students develop solar powered system to destroy farm pests



A group of EEE students of Vidya, as part of their final year main project, developed a solar powered system that would destroy crop pests and would convert the dead pests to organic manure. The fully solar powered machine can function during day time as well as night time. The machine uses hormones in day time to attract insects to the machine. It also uses ultrasonic technology and yellow and blue light at night to attract insects. Pests are destroyed using high voltage electric energy. A layman can use it easily because of the low current flow. The machine also has the facility to combine these dying pests with organic matter and compost it into organic manure. It helps to keep away other animals which enter the farm to eat the pests. The machine is also equipped with a safety feature to protect it from rain. The team have set up compartments for storing the belongings of those working in the fields and a mobile phone charge point in the

system.

## The team

The team consisted of Ushas Andrews from Kanjani, Kevin George from Palazhi, Manalur, Swathi K Sunil from Kandassamkadavu and Jincy Jose from Anthikad. Mr Vishnu Rach, Mr Sankaran Namboothiri and Mr Ashwin T Surendran, AP's in the EEE Dept, coordinated the project led by Dr Mary Varghese (Head of EEE Dept). The project was selected as the best project in a competition conducted by the IEDC Club of the college. The students are now working with the Department of Agriculture to bring the machine to market.

---

## News in TV channels

---



THE TIMES OF INDIA

Shared from the 6/22/2021 The Times Of India - Kochi eEdition

---

## A device to turn pests into manure

TIMES NEWS NETWORK

Thrissur: A

group of engineering students have developed a solar farming support machine that completely destroys crop pests and converts them into organic manure. The fully solar-powered machine will function during day and night too. At night, it is powered by the battery solar-charged during the day.

**Square Online for restaurants.**

Learn more

The machine has been developed by the students of the electrical and electronics engineering branch at Vidya Engineering College, Kechery, in the district. The project was part of their efforts to address the widespread pest attack in the farm area in Manalur constituency, where their college is located. The constituency is one of the major farming areas of the district.

Dim light is used at night so that it uses less power. Hormones are used to attract insects to the machine, according to a release received from the college. The machine uses ultrasonic technology and yellow and blue lights to attract the insects at night. Pests are destroyed using high voltage. The machine can be used by even those who are not tech-savvy because of the low current flow.

The release said the machine also has the facility to combine these dying pests with organic matter and compost it into organic manure. It helps to prevent other animals which enter the farm to eat the pests. In addition, the machine is equipped with a safety feature during rainy seasons. The students have set up compartments for storing the belongings of those working in the fields and a mobile phone charge point in the machine, the release said.

---