

## IIT holds rural innovators conclave

# Device testing soil in 25 seconds, smart curd maker showcased

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IIT Indore organised a 'Rural Innovators Conclave' on January 5 and 6 which provided a platform to a wide array of innovators and entrepreneurs to showcase their products, pitch and talk about their innovations to improve rural life.

The conclave included discussions on challenges faced by rural innovators and expected rural Innovation in the coming 10 years. In addition, more than 14 innovators showcased their innovation on the occasion. The event was conducted by the Centre for Rural Development and Technology, IIT Indore in association with Science and Engineering Research Board.

Prof Suhas Joshi, Director, IIT Indore said, 'IIT Indore has been engaging with neighbouring Insti-



tutes and organisations to identify problems faced in rural India. It has signed four MoUs for development. Along with this, 14 projects have been signed.'

### Some of the rural Innovations: Smart curd maker

To reduce the time taken in making curd, the youth have developed a smart curd maker. Sanjay Surage says that curd gets set eas-

ily in summer season but it takes a lot of time in rain and winter. For these seasons, we have made the smart curd maker so that the curd can be set well in less time. For this we have used an ice box, so that the temperature inside it can be maintained. In this, a temperature of 45 degrees is created by heating water with the help of a heater and after placing milk in the vessel, it is closed. A

sensor has also been installed in it, which automatically switches off the heater if the temperature exceeds 45 degrees. Similarly, the heater turns on when the temperature drops below 40 degrees. A device has also been installed outside this box, with the help of which one can set the temperature.

### Farmers will be able to test soil

To help farmers, IIT's Centre for Rural Development and Technology has created a device through which farmers will be able to test the soil themselves. The 'geo-enrichment' device not only tells about the elements present in the soil, but with the help of AI, it also tells about the diseases faced by plants along with their treatment.

As soon as one puts the

device in the soil, through the app gets information about nitrogen, phosphorus, potassium, electroconductivity, pH value and moisture present in the soil. It takes merely 20 to 25 seconds to test.

### Village kids learning basic tools

To teach children from small villages how to use basic hand tools, NGO Nirmar Abhyudaya Rural Development and Management Association (Narmada) of Lepa village has prepared a set up in a vehicle. It has been named 'Narmada Kaushalya Rath'. The Rath goes to such villages and trains children where there are no facilities. The purpose of starting this is to teach children how to use basic tools and also to provide them information about employment opportunities.