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15 KNOWLEDGE DRIVEN ENTREPRENEURS

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TIPS FOR GPAT

MEDICAL
ALL ABOUT AIPMT 2014

POLICY
UGC V/S AICTE





About The Incubator KIIT-Technology Business Incubator, KIIT University, Bhubaneswar, Odisha **Established** 2010 **Current Incubatee** 17 **Graduated** 06 **Offerings** Space, Technical infra structure, Mentoring support, Networking & Branding, IPR support, investment/funding support **Exit Policy** For ICT & Engineering based incubatee 1-2 year incubation time and for Biotechnology & life sciences its 3-5 years. Incubator takes equity share in the company and the percentage varies from 5-10%.

SRUTIKANTA MISHRA claims that no other product similar to SPACS is available in the market

CLEAN SUPPORT FOR GREEN ENERGY

Solar panels draw energy from nature. But they are not free from the vagaries of nature. Dust accumulation on panels poses major problems for solar power banks as it affects their efficiency. Srutikanta Mishra, a 4th year B.Tech student at KIIT, Bhubaneswar, has come up with a novel automated system to address the problem. Mishra shares why he has chosen to experiment and move ahead in this field. "Most of the solar power banks face a lot of problems because of dust and for solving it I developed the Solar Panel Automated Cleaning System. This product helps solar power banks to maintain the efficiency of the system by regular and automatic cleaning of the solar panels in a particular frequency."

How it works

The SPACS is developed for deployment in solar power banks and it cleans up to 50 metres in a straight path. The SPACS system is now being field-tested and will be ready for launch by the end

of February, next year. Srutikanta plans to target solar power companies, industries and general public as his customer base. The approximate cost of the system varies from Rs. 1 to 2.5 lakhs except installation cost, which comes to around Rs. 100 per feet, which is a one-time investment.

Srutikanta shares that he chose SPACS as he has a penchant for energy-efficient products since they increase the efficiency of the system. The other products are customized instruments like UV ray reactors, Visible ray reactors etc.

Advantages

- ◆ Cost effective
- ◆ Waterless cleaning
- ◆ Long life
- ◆ Easy deployment
- ◆ Low power consumption
- ◆ Low maintenance
- ◆ Fully automated



Institutional support

"I went to KIIT-TBI with my proposal. The TBI team with Dr Mrutyunjay Suar as the CEO and Dr Manisha Acharya as the Incubation Manager welcomed my proposal for developing a commercial prototype of SPACS," says Mishra. "Today our set-up is equipped with modern machines and working tools. The SPACS system is under testing and rigorous development," he adds.

"We know that getting good infrastructure is very expensive which eats upmost of the capital. In our case both of these issues were solved by KIIT- TBI. It helped us to connect with organizations like CIPET, MSME DI, DIT etc. It also helped us in raising our funds in the form of grants and soft loan," shares Srutikanta.

Future plans

Based on market needs the company is concentrating on consumer products and hybrid industrial products. It has recently completed an order from KIIT School of Biotechnology for Visible Ray Reactor & UV Ray Reactor.

At a time when the nation is facing huge demand-supply gap in energy, it becomes important to tap solar potential to the hilt. Efforts of innovators like Mishra really count in this scenario. ■