



**Dipti Manjari Dakua class 10,
Bahadjhole Girls, High School,
Nayagrah, Odisha**

Dipti's father is physically challenged and runs a small hotel in their village. Her mother is a homemaker and Dipti has an elder brother, who is studying.

"I want to be a banker when I grow up so that I can help my family with my income. As we are very poor, I focus only on my studies, rather than playing or keeping hobbies," says

Dipti. She has a habit of keeping newspaper cuttings on new machines and innovations.

When Dipti showed her working model to her parents, they were very happy and proud. "I believe that in spite of all odds, we should march forward. My friends and other people around us are giving us a lot of appreciation because of my innovation," says Dipti.

Seed container that indicates growth of germs

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Whenever Dipti's mother
stored food grains, pests,
insects and micro-organisms
used to attack the grains,
damaging them



“We would not know if the stored grains got affected by pests. To solve this problem, I thought I should find a way to determine growth of germs in the stored grains. Then, I decided to study the activities of the germs through an increase in temperature inside the bin. Metabolism produces heat. This insight helped me to develop the idea of a seed container, which can detect the decrease in temperature of the container, thereby indicating the growth of organisms inside it, and thus, alert the user,” says Dipti.

