

## Rashtriya Avishkar Abhiyan Popularizing Dr. APJ Abdul Kalam IGNITE Awards In Chhattisgarh

Every year, National Innovation Foundation invites submissions of the creative technological ideas/ innovations from the students upto class 12<sup>th</sup> for national competition for children's ideas and innovations, in association with the Honey Bee Network, SRISTI, CBSE and other partners. NIF has continued to announce the awards every year for last eight years on October 15, every year on Dr Kalam's birthday, which is also celebrated as the Children's Creativity and Innovation Day by NIF.

Creativity among children is almost innate. Every child is creative, the degree may vary though but, not its basic manifestation. Then what happens during growth and maturation? Why should children stop asking basic questions? Why do they agree to do repetitive science projects instead of being original? Why do they learn to live with unsolved social and professional problems? We should not allow our children to live with such problems. Rather, we must urge them to come up with solutions to these. We want to promote originality, creativity and innovative spirit among our children so that when they become leaders of our society, they ensure an imaginative, inclusive and innovative future for the country. We want our children to be more sensitive to the problems faced by not just them and their families or neighbors' but also other socially-disadvantaged sections of the society.

Original and creative technological ideas and innovations of the students OR/AND any technological idea/innovation that solves any daily-life problem, be it household or of porters, labourers, or the likes. In addition, during their vacations or otherwise, the students are encouraged to look for other people who come out with innovative machines/devices or solve day-to-day problems using their creativity. Similarly, they are also encouraged to document and learn traditional knowledge (TK) practices from elders in their families and neighbourhood. The purpose is to expose them to the rich traditional heritage that we have, facilitating its transfer from generation to generation. The students submitting the maximum number of properly-documented entries (innovations/TK) to the schools (which would forward them to NIF) or directly to NIF, would be given appreciation certificates. For each innovation/TK practice spotted and documented by the student, he/she will be credited as being the 'scout' of that innovation/TK in records.

In Chhattisgarh, dissemination of this program was done intensively. The information and processes were shared directly with teachers through different media and they were motivated to encourage children to think on these lines and support students to submit their ideas. PPTs were developed using earlier models selected for awards and possibilities for planning for innovative ideas. These issues were discussed in discussion papers, teachers training and other social media.

Out of 55 thousands science-based projects submitted for Dr APJ Abdul Kalam IGNITE Awards 2016 across the India by child scientists, only 28 science based projects got selected and made way for the prestigious award. **This time, out of 28 children, three of the meritorious award winning children belongs to Chhattisgarh.**

## REAL-TIME DATA TRANSMISSION SYSTEM IN ELECTRONIC VOTING MACHINES



**Name :** Roshan Sodi

**District & State :** Sukma, Chhattisgarh

**Award :** upto class 8th

Roshan overheard his teachers discussing how voting numbers in many areas are rigged. He thought of a button in the EVMs which can transmit the total number of votes directly to the cloud server as the voting proceeds and also to district Election Commission office if required at regular interval. A software can be developed for this which will prevent any untoward happening during/after voting. The rate of voting will be recorded per minute any undue activity will alert the monitoring agencies.

Roshan has grown very fond of computers and has started learning how to use one. Besides, he draws inspiration from Dr A P J Abdul Kalam and Kalpana Chawla. He wants to become an engineer.

Roshan was not allowed to continue his education and his parents engaged him to support at home for cattle grazing. He ran away from school and joined Porta Cabin in Sukma.

## SEPTIC TANK LEVEL AND PRESSURE INDICATOR



**Name :** Indu Manikpuri

**District & State :** Dantewada, Chhattisgarh

**Award :** upto class 8th

“Nowadays, people in rural areas are getting aware about cleanliness. They are constructing lavatories but overflowing of the septic tank often results in the pollution of nearby areas,” says Indu. Her idea of a septic tank pressure record aims to warn of the impending problem well in time so that the tank can be drained before it is too late. Indu wants to become an IAS officer and believes that one is destined to become what s/he decides to be.

Indu lost her father in naxal attack and is continuing her education in Astha Gurukul. Dantewara where children who lost their parents in naxal attack are given quality education.

## TELEVISION WITH PROGRAMMABLE ALARM SYSTEM



**Name :** Himanshu Rateria

**District & State :** Bhubaneswar, Orissa

**Award :** ignite

Himanshu’s grandparents often forgot to take their medicines. He observed that grandparents are very fond of TV shows and serials. So, he thought of a system in the television that could give reminders to its viewers. The reminder would pop up multiple times on the screen, blocking the faces of the TV actors and in turn irritating the viewer. This will help in timely consumption of medicines for the viewer.

Himanshu wishes to become a scientist and is inspired by Sir Issac Newton. He is fond of reading novels and sketching in free time.

Chhattisgarh is planning to increase the number of submissions for this award and encourage children to have creative thinking on these issues.

