

Science innovations by students

ZPHS ELLANTHAKUNTA – RAJANNA SIRCILLA
DISTRICT TELANGANA

Machine for purification of river Ganga:

Student Scientist: Boppena Rahul

Grade: 9th

Guide Teacher : V. Mahesh Chandra

In the modern age, technology is developing day by day. In addition to technology, environmental pollution also increasing rapidly. India is well known for so many holy rivers. These prominent rivers now filled with plastic wastages and sea weeds which cause the pollution of river water. Here we invented a machine named “Machine for purification of Ganga River” which can cut and remove the plastic wastages as well as unwanted sea weeds from the polluted rivers. It also cleans the floating oil dumps on the river water and protects the aquatic animals that live in the sea waters. The cost of the machine is Rs.2500. This exhibit got selected at national level in INSPIRE MANAK 2018-19 and got the appreciation by the organizers.



INSPIRE MANAK (2018-19) exhibit at the National Level

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TELANGANA

Calculation of consumption of Electricity used in Ganesh pandals – alternate measures

Student Scientist: Inshira, 10th class

Guide Teacher : V. Mahesh Chandra

Each year, a huge amount of electricity is consumed throughout India during the season of Ganesh Festival in the Ganesh Pandals for the decoration with lightings and sound system. In 2018, we visited the Ganesh Pandals in Ellanthakunta Mandal and calculated the electricity consumption for lightings and sound systems. Here, our project suggests environment friendly alternative methods, instead of electricity, decoration of lightings can be done by using the principles of Light Reflection and Refraction. It helps future generation by saving electricity today. This project got B+ grade in national level Children Science Congress held in Kerala in 2019. This project got selected and awarded bronze medal by International Innovation Foundation in 2019.



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1. MULTI PURPOSE COCONUT PEEL MACHINE

Student Scientists: Md.Shakeel - 8th Class & B.Rahul - 9th Class

Guide Teacher : V. Mahesh Chandra

It is generally observed that coconut vendors find it difficult to peel the coconut. To make this task easy for the vendors the students came up with an innovative project named “Multipurpose coconut peel machine”. The coconut peel machine can do the following different works:

- Peel off the coconut as well as coconut palm.
- Makes a hole to coconut palm to be able to drink the coconut palm
- It breaks the coconut palm into two pieces so that we can easily collect the wet coconut.

The cost of the Machine is Rs.1300/-. This exhibit got the first prize in ISF 2020 in Telangana and won a trophy.



State Level Award Felicitation