



National Innovation Foundation
Ahmedabad

**Children's Creativity
& Innovation Day
October 15**



Source: Honey Bee 2012, 2009

IGNITE 10

The annual national competition of students ideas & innovations

What is the IGNITE contest?

IGNITE is a national competition to harness the creative and innovative spirit of school children. Students are invited to send their original technological ideas and innovations for the same.

Why the IGNITE contest?

Creativity among children is almost in-born, every child is creative, degrees may vary, but not the basic manifestation. Then what happens during the 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 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 an 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.

The IGNITE 10 contest (October 16, 2009 to September 15, 2010) saw participation of students from 161 districts of 29 States and Union Territories of the country. Over all 2139 entries were received, which ranged from sectors like energy, environment, transport, general household utility items etc. The awards were announced on October 15th, the birth day of children's favorite Dr A.P.J. Abdul Kalam, celebrated as the Children's Creativity and Innovation Day by NIF.



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Dr. APJ Abdul Kalam

Seven Point Oath for Students



1. I realize I have to set a goal in my life. To achieve the goal, I will acquire the knowledge, I will work hard, and when the problem occurs, I have to defeat the problem and succeed.

2. As a youth of my nation, I will work and work with courage to achieve success in all my tasks and enjoy the success of others.

3. I shall always keep myself, my home, my surroundings, neighbourhood and environment clean and tidy.

4. I realize righteousness in the heart leads to beauty in the character, beauty in the character brings harmony in the home,

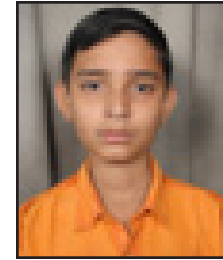
harmony in the home leads to order in the nation and order in the nation leads to peace in the world.

5. I will lead an honest life free from all corruption and will set an example for others including my home to adopt a righteous way of life.

6. I will light the lamp of knowledge in the nation and ensure that it remains lit for ever.

7. I realize, whatever work I do if I do the best, I am contributing towards realizing the vision of developed India 2020.

(Source: http://www.abdulkalam.nic.in/address_airindia_pres.html)



Aditya Parashar

Class 7

Tagore Vidya Mandir
Hoshangabad, Madhya Pradesh

Vibrator based overtake alarm

The idea is to incorporate a microphone in the side view mirror in a car to pick up the horn frequencies of vehicles following the car. Sometimes, when the door windows are up and music is playing, it becomes difficult to hear the horn. The microphone gets activated when the window glasses are up, and sends signal to a vibratory pad on the steering, which will alert the driver about another vehicle following. He has many other ideas as well like a remote that takes energy from TV light or any other natural/artificial source of light, and a luggage carrier on the top of automobiles with a rotatory base so that one needs just to rotate the carrier to pick up any luggage on any side.

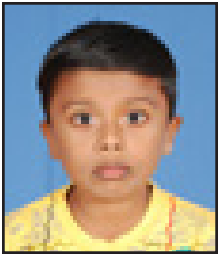
Crutch with shock absorbers, bell and light

Her idea is to have a crutch with shock absorbers for the comfort of the user and also a bell to alert other commuters and a light to be used during the night



Archana Konwar

Class 8
Butacore High School
Dhemaji, Assam



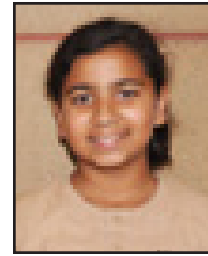
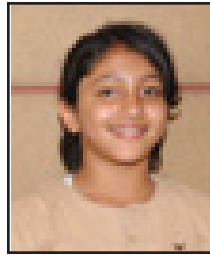
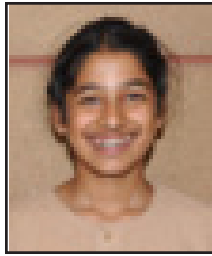
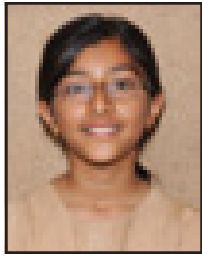
T Chris Ananth

Class 1
Bell Matric Higher Sec
School
Tirunelveli, Tamil
Nadu



Mini vacuum cleaner in shoe

Young Ananth's idea is to have a vacuum cleaner like small device in a shoe that could suck in dust when a person walks. The base of the shoe would also have a small dust bag in which this dust may be collected.

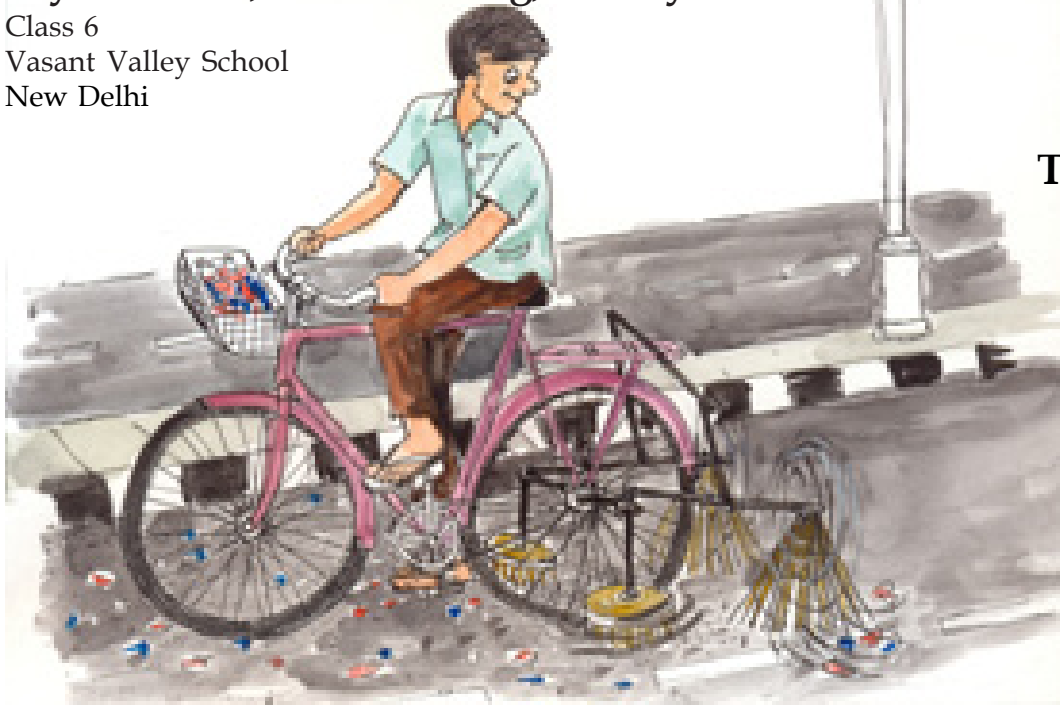


Riya Kothari, Nimran Kang, Kaamya Sharma & Mehr S. Mehta

Class 6

Vasant Valley School

New Delhi



The Cycl-O-Cleaner

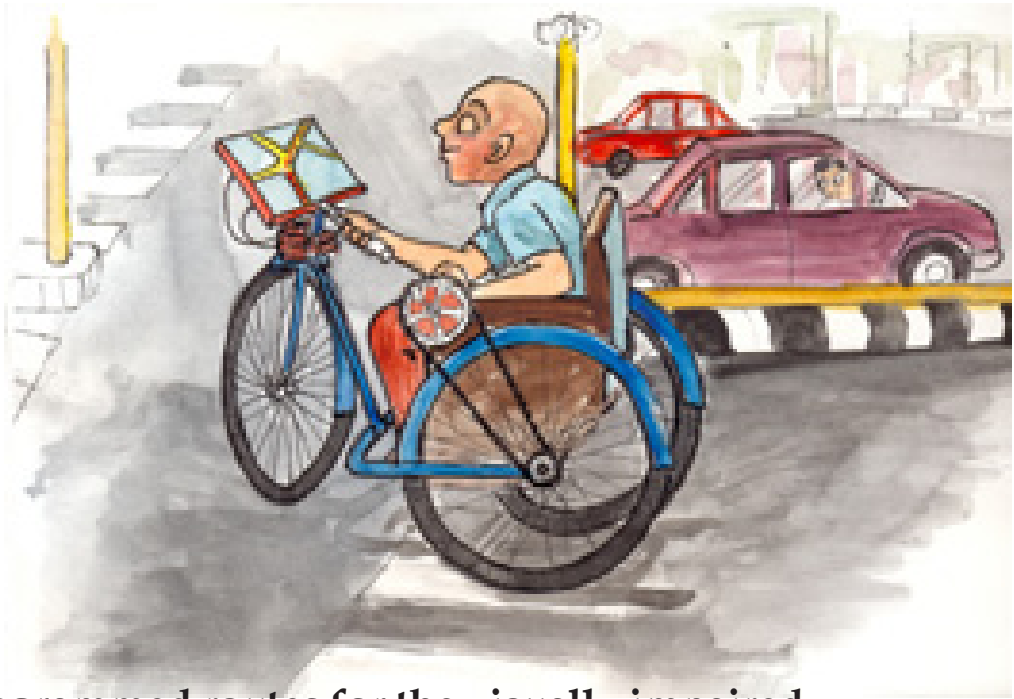
The idea is to have a bicycle with two brooms attached to the back wheel. The brooms rotate as one pedals and the brushes sweep away the dust making the drive way clean. The cycle may optionally include an extra dustbin attached to the front to collect large scraps and pieces of garbage.



Rashmi Maruvada

Class 5

Patha Bhavan High School
Kolkata, West Bengal

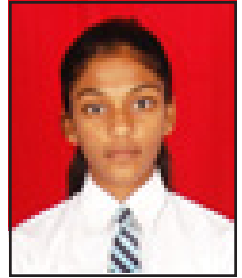


Tricycle with preprogrammed routes for the visually impaired

Her idea is to have a tricycle, which will have an inbuilt navigation system with an audio announcement system to inform the rider about the places/landmarks enroute. Such a tricycle would make it easy for a visually impaired person to travel.

Euphorbia contifolia as termite / tick repelling

Working on a project, Varsha has found out that the said plant can be used as a termite and tick repellent. Earlier reports mention the use of this plant mainly as a fish poison.



Varsha Singh

Class 8

Apeejay School
Jalandhar, Punjab





Divyam Gupta

Class 10

Delhi Public School

Bulandshahr, Uttar Pradesh



System to prevent people from using mobile phones while driving

In order to prevent people from using mobile phones while driving, Divyam suggests to place touch sensors on the gear lever and the steering. This means that both the hands need to be either on the steering or on the steering and the gear lever. If anytime, the driver's hand is not on either steering or gear lever (for more than designated seconds), the system will infer that either s/he is using a mobile phone or not carefully handling the steering. Based on this, the system may react, which can be pre programmed. This reaction, as per the programming, may be slowing down the vehicle and bringing it to a halt after some delay, moving to side by giving indicator or simply giving an alert alarm to the driver.



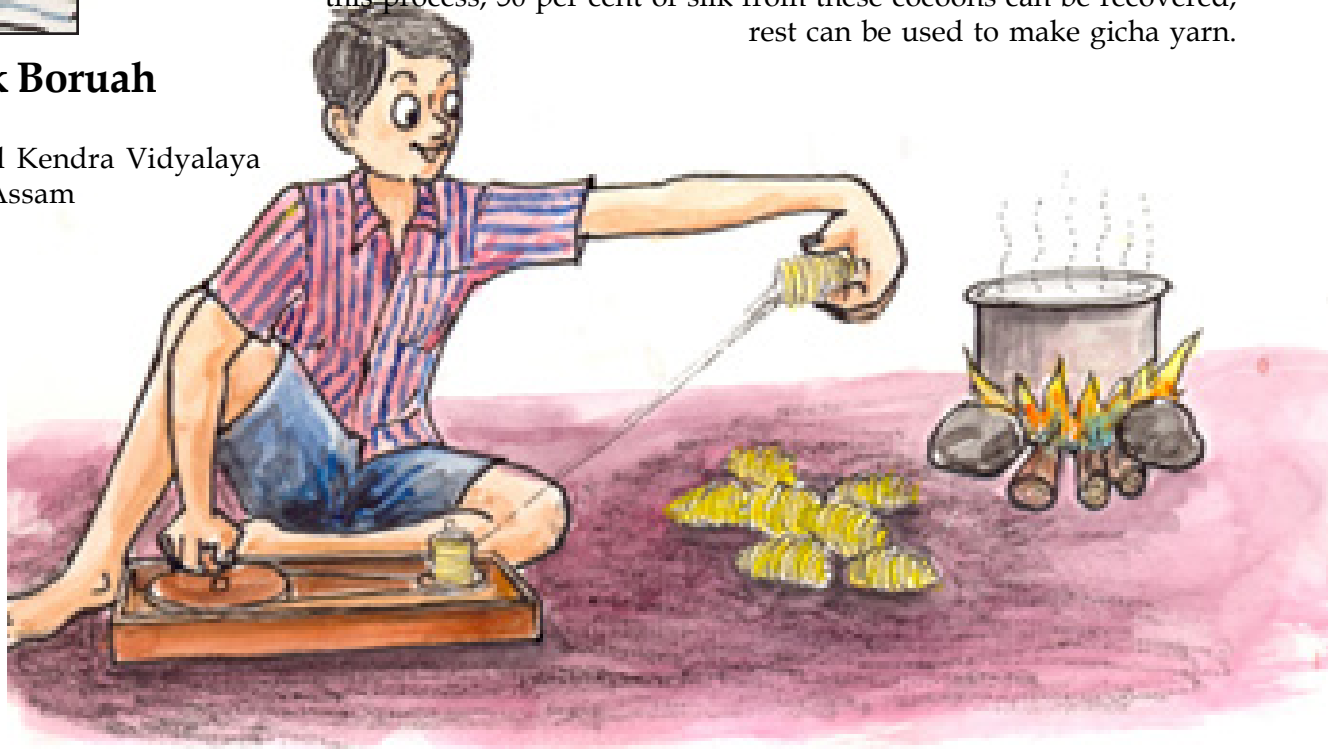
Kaushik Boruah

Class 9

Vivekanand Kendra Vidyalaya
Golaghat, Assam

Process of reeling cut or pierced muga cocoons to obtain continuous filament

The process developed by Kaushik helps to obtain continuous silk filaments from the cut or pierced muga cocoons. Traditionally, the cut/pierced cocoons are used to make gicha yarn in the villages. Using this process, 50 per cent of silk from these cocoons can be recovered, rest can be used to make gicha yarn.





Vishan Popat

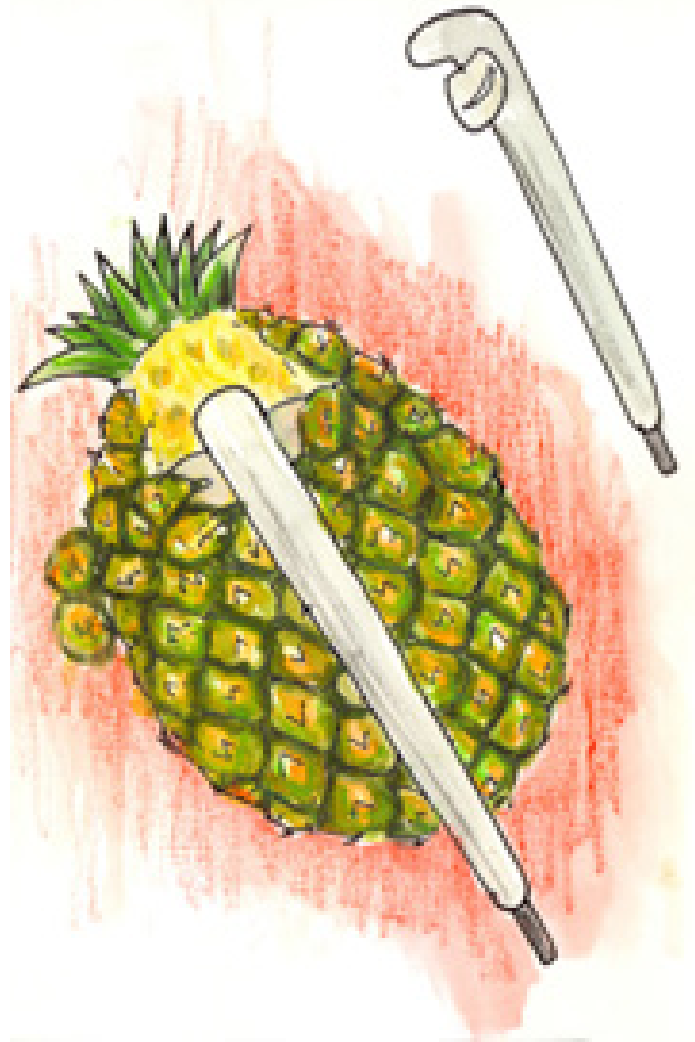
Class 10

Navrachna School

Vadodara, Gujarat

Peelgroove knife for pine apple

Pineapple peeling is a very tedious and cumbersome job, which has been made easy by this device.





Ashuni Patel

Class 10
Navrachna School
Vadodara, Gujarat



Sai Sri Ram

Class 9
Don Bosco Public School
Vijaywada, Andhra Pradesh

Locator beeper

Who has not faced the problem of misplacing an object or forgetting where it has been kept. Ashuni and Sai Ram's device makes it easy to locate them. This device can be attached with any item that people generally tend to misplace/forget about. It is fitted with transmitters/receiver, LED and a sound device. When its remote is pressed, sound is emitted from the device tagged to an item/article and the user can trace its location





Masha Nazeem

Class 12

Vidhya Vikas Girls High Sec School
Kanyakumari, Tamil Nadu

Mechanical porter

Masha's device helps people specially women, old and children to lift and move heavy objects from one place to other. This transportable device has a wooden base that can be raised through a jack like mechanism to lift weight. This device can be hand or foot operated.

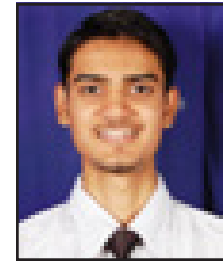
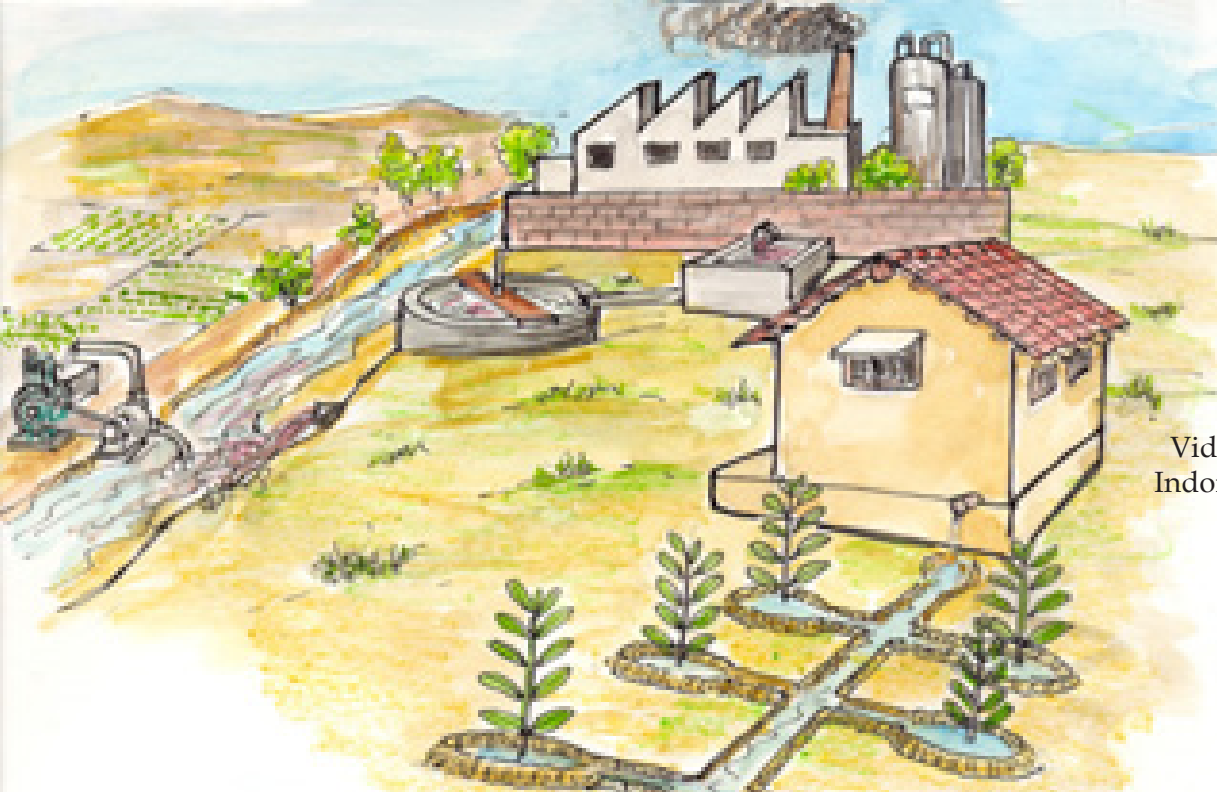
Multiple physiotherapy devices

Ashok has designed many simple and low cost exercising devices that help accident victims in rehabilitation. These are also very useful for people with limb disorders. Some of his machines have already been installed in physiotherapy centers where the feedback has been very positive.



Ashok Aasrani

Class 12
Shubham Sen Sec School
Jaipur, Rajasthan



Parth Vaidya

Class 12

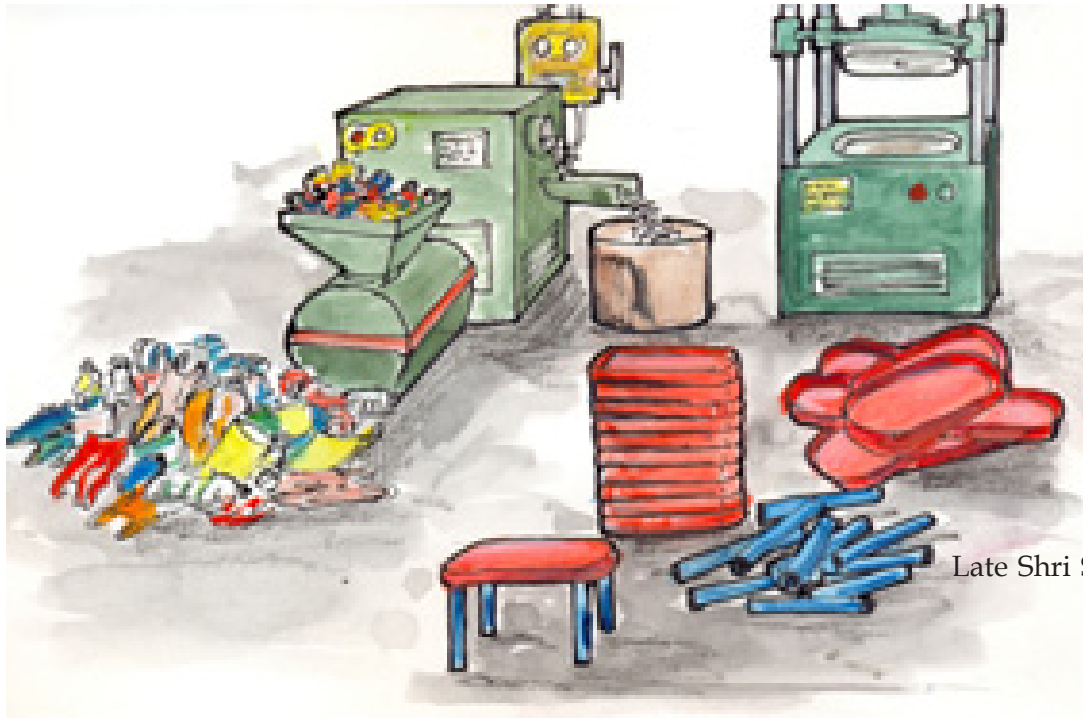
Vidya Vijay Bal Mandir
Indore, Madhya Pradesh

Domestic & industrial waste water management in urban areas

Parth has developed a system to process waste water so that it can be used for different purposes like irrigation, construction, washing or producing manure. Indore Municipal Corporation has in principle agreed to install the system in new residential colonies. GlaxoSmithKline has also implemented the same in their premises

Recycled composite material made from multi layer film plastic packaging waste

By appropriate heat treatment of multilayer film plastic packaging waste, Hetal has converted it into a composite plastic material. This material can then further be used for making various articles and sheets with the help of extrusion, injection or compression moulding. Hetal got this material tested at different laboratories and has also filed a patent for the same as well.



Hetal Vaishnav

Class 12

Late Shri SG Dholakiya Memorial
High School
Rajkot, Gujarat

Reading assistant for the blind/low vision people

Mayank's idea is to develop a gadget that can be worn on a hand and which can be moved over text or braille. It uses sensors that scan text and braille and convert it into audio signals for the blind /visually challenged.



Mayank Walia

Class 12
Police DAV School
Jalandhar, Punjab



Sound/Noiseless horn

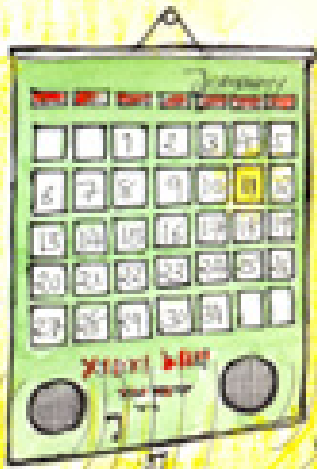
Manibhushan suggests each vehicle to have signal (may be IR) emitters and corresponding sensors. When horn is pressed by the driver, signals are transmitted (instead of sound), which are picked up by the car in front and a beep alert is there in its dashboard along with a light signal.



Manibhushan Prasad

Class 12
Sindri College
Dhanbad, Jharkhand





Shruti Tyagi

Class 11

Police DAV School
Jalandhar, Punjab

Talking wall mounted calendar with reminder facility

Shruti visualises a wall mounted electronic calendar, which has an in-built organiser and reminder facility so that one can never miss any event or an engagement. She has a number of other ideas as well including a push button type stand in two wheelers for the ease of women and old people and voice actuated switch for television and other appliances.

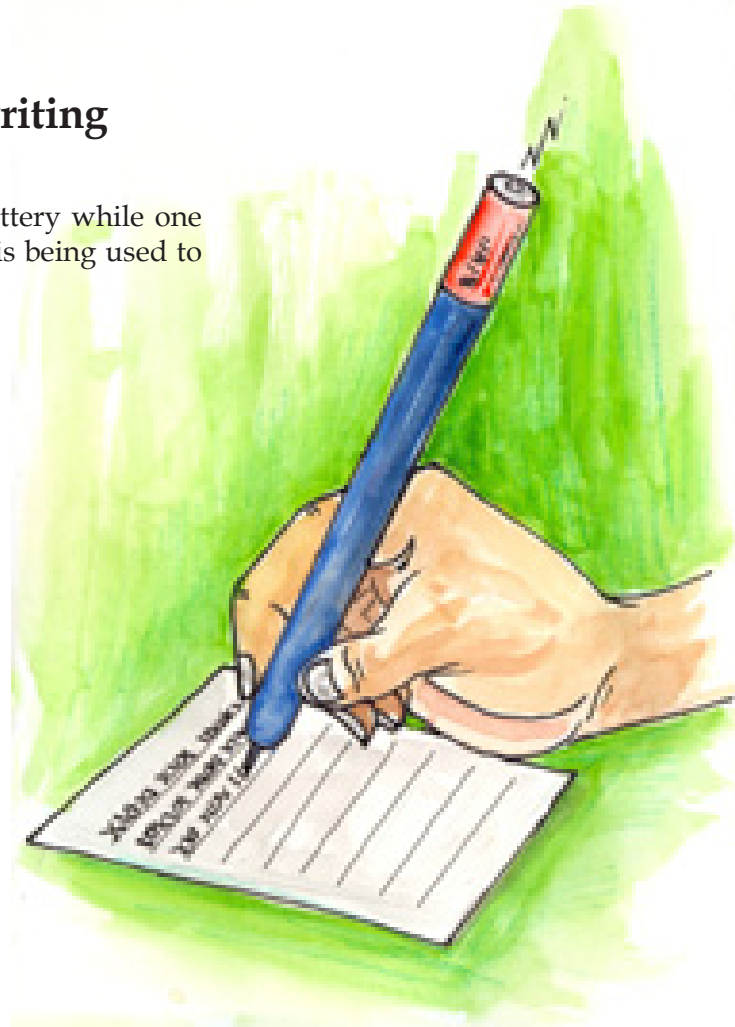
Pen that can recharge batteries while writing

Rahul's idea is to have a pen that recharges a small battery while one writes. The pressure on the tip of the pen while writing is being used to charge a small battery.



Rahul K Singh

Class 12
DAV Kapil Dev School
Ranchi, Jharkhand



IGNITE 10 Snapshot

Oct 16- Sep 15	2139	29	161	18
Period	Entries	States/ UTs	Districts	Awards
April 15 - Sep 15	1344	IGNITE 09 21	82	18
July 15 - Aug 30	961	IGNITE 08 19	62	19
July 15 - Aug 30	63	IGNITE 07 4	13	10

Award	Name	Class	School	District	State	Idea/Innovation
I	Aditya Parashar	7	Tagore Vidya Mandir	Hoshangabad	Madhya Pradesh	Vibrator based overtake alarm, Light sensitive TV remote; Transport vehicle with rotatory luggage carrier
II	Archana Konwar	8	Buticore H School	Dhemaji	Assam	Crutch with spring shock absorber and bell
III	T Chris Ananth	1	Bell Matric Higher Sec School	Tirunelveli	Tamil Nadu	Vacuum cleaner in shoe
III	Riya Kothari, Nimran Kang, Kaamya Sharma and Mehr S. Mehta	6	Vasant Valley School	New Delhi	New Delhi	The Cycl-O-Cleaner: bicycle based cleaning device
Consolation	Rashmi Maruvada	5	Patha Bhavan High School	Kolkata	West Bengal	Tricycle for visually challenged with pre programmed route
Consolation	Varsha Singh	8	Apeejay School	Jalandhar	Punjab	<i>Euphorbia contifolia</i> as termite / tick repelling

Class 9- 10

Award	Name	Class	School	District	State	Title
I	Divyam Gupta	10	Delhi Public School	Bulandhshar	Uttar Pradesh	System to prevent people from using mobile phones while driving
II	Kaushik Boruah	9	Vivekanand Kendra Vidyalaya	Golaghat	Assam	Process of reeling cut or pierced muga cocoons to obtain continuous filament
III	Vishan Popat	10	Navrachna School	Vadodara	Gujarat	Peelgroove knife for pine apple
Consolation	Ashuni Patel	10	Navrachna School	Vadodara	Gujarat	Locator beeper
	Sai Sri Ram	9	Don Bosco Public School	Vijaywada	Andhra Pradesh	

Special Mention: Students' Club, DAV School, Hazaribagh & DAV Regional School Network in coordination with Social Upliftment Trust, Hazaribag for mobilising over 750 entries from the students

Class 11th-12th

Award	Name	Class	School	District	State	Title
I	Masha Nazeem	12	Vidhya Vikas Girls High Sec School	Namakkal	Tamil Nadu	Mechanical porter
I	Ashok Aasrani	12	Shubham Sen Sec School	Jaipur	Rajasthan	Physiotherapy machines
II	Parth Vaidya	12	Vidya Vijay Bal Mandir	Indore	Madhya Pradesh	Domestic & Industrial waste water management system in urban areas
III	Hetal Vaishnav	12	Late Shri SG Dholakiya Memorial High School	Rajkot	Gujarat	Recycled composite material made from multi layer film plastic packaging waste
Consolation	Mayank Walia	12	Police DAV School	Jalandhar	Punjab	Reading assistant for the blind/low vision people
Consolation	Manibhushan Kumar	12	Sindri College	Dhanbad	Jharkhand	Sound/Noiseless horn
Consolation	Shruti Tyagi	11	Police DAV School	Jalandhar	Punjab	Talking wall mounted calendar with reminder facility, push button type stand in two wheelers, voice actuated switch for television and other appliances
Consolation	Rahul K Singh	12	DAV Kapil Dev	Ranchi	Jharkhand	Pen that can recharge batteries while writing



What is Honey Bee?

The name *Honey Bee* signifies a philosophy of discourse that is authentic, accountable and fair. A honeybee does two things which many of us do not. It collects pollen without impoverishing the flowers, and connects flowers through pollina-tion. The idea is that when we collect people's knowledge, we should ensure that they do not become poorer for having shared their insight with us. Further, we should connect one innovator with another through feedback, communication and networking in their local language. We have to let the providers of knowledge know what we would do with their knowledge. If we generate consultancies or other sources of income by writing on people's knowledge, a fair share of this income must accrue to the providers in as transparent a manner as possible.

Honey Bee is an experiment in people to people learning: We write in English language which connects us globally but alienates locally. We are unable to reach the people from whom we have learnt. Thus, while we grow in our careers, achieve wider recognition and reap professional rewards, the people suffer, often silently. The ethics of knowledge extraction, documentation, dissemination and abstraction into theories, institutions or technologies, is thus one of our central concerns. *Honey Bee* is brought out in seven languages through collaborators. Write to us if you would like to contribute to this network by paying your annual/life subscription fee as suggested in the table or in any other voluntary way. The Honey Bee Network supports the National Innovation

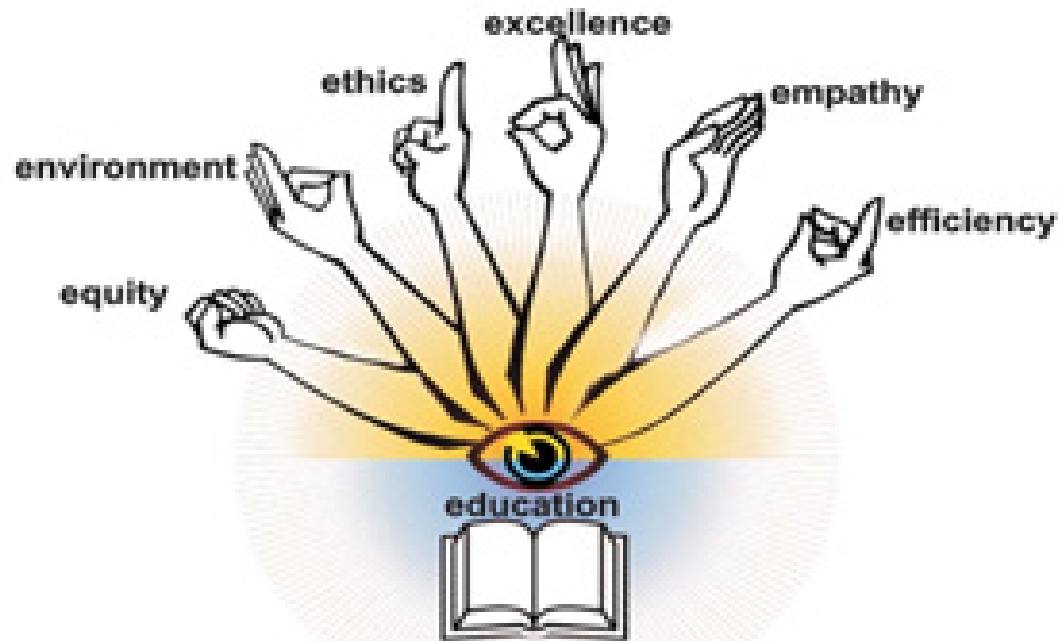
Foundation (www.nifindia.org) and Grassroots Innovation Augmentation Network (GIAN) (www.gian.org).

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Honey Bee Network Values



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NATIONAL INNOVATION FOUNDATION, INDIA



Seeking entries from students upto class 12 for IGNITE - the annual national competition of original technological ideas and innovations of children. Results declared on October 15- the birthday of Dr APJ Abdul Kalam celebrated as Children's Creativity and Innovation Day every year.

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