



KINETIC SCULPTURE

ACHIEVEMENT 3RD PRIZE IN ROBONGIERS ROBOTICS FEST

Organised by Pathways School Gurgaon from 23 to 26 February 2022

oday's world is driven by competition, wealth and authority. The run for authority is ever widening and history has shown that we as humans can go to unimaginable lengths to have an upper hand. There being a very fine line between expectations and reality, people who walk that extra mile for that line to go finer, take some steps that qualifies as being particularly 'unimaginable'. This mile can trap a lot of innocent intentions and dreams alongside their own, which brings us to the world we live in today.

My sculpture depicts those intentions and aspirations alongside the very prevalent competition and the lengths people go to, to achieve them even though it could be stepping into the territory of being wrong. The hands emerging from the globe, reaching for heights, represent the ever so prevalent and obvious element of competition in our society. The fact that one might not be aware of who 'one upped' them in an aspect of which they were so bodeful. The kinetic element in the sculpture goes to show how desperate people are to fulfill their aspirations and that act is ever increasing. The man being chased represents all those who suffer owing to the hyper competitiveness, making the one who's chasing, overly devoted to the competition. The depiction is outlandishly strong because these lengths are often seen in our own society.

Artwork by Harshit Sharma (CDT Captain), Class 11, Thejose Epao, Class 10 & Nilav Prajapati, Class 4 (Sunnyside).







Founders' Exhibition







FASHION SHOWCASE







NORZIN LHAMU





ANUSHCKA JOSHI

CDT Founders' Exhibition



ANGREE KILLINGPI

NILASHA BHIMSARIA



ANUSHCKA JOSHI





Students made patterns on fabrics using the technique of clamp dyeing. The garments were made by draping and binding them together with the help of rubber bands and plastic buttons.

PC: Zainab Khan & Luqmaan Ahmed

















ounders' at The Assam
Valley School is not just
any event that comes and
goes; it is definitely one that is
looked forward to the most. The
3-day CDT workshop towards
the end of the Founders'
Semester culminated in a grand
installation spreading the
Christmas aura of excitement
and joy.









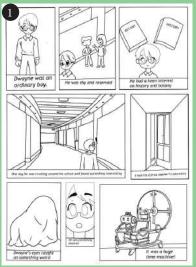


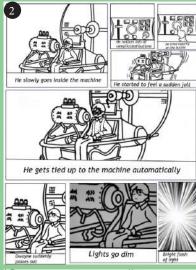


Lower School students during Art Workshop Artworks made by

ROBONGIERS ROBOTICS FEST

BY PATHWAYS SCHOOL



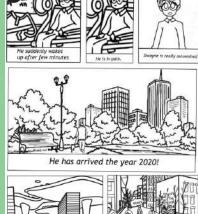




AVS entry for Reading: Al Graphic Novel

by Harshi Kashyap (Art Captain), Class 11 & Tasmin Ahmed, Class 9





SMART VILLAGE

ur school partricipated in the Robongiers Robotics Fest Competition in which we had to design a Smart Village.

The village we designed has a radius of 2 kilometres and is spread over an area of 12.57 km². The village is divided into different sections which will all have different purposes.

Housing:- The village will have 750 houses which will accommodate around 3000 people. Each house will have an area of 2000 sq. ft. Every house will have its own lavatory for hygienic purposes. Every house will have 24 hrs water supply and electric services. It will also have facilities to house animals

Agriculture:- An area of 6 km² will be reserved for agriculture where different crops will be grown during different seasons. The farm land will receive fertilisers from a biogas plant and will have irrigation facilities during the dry season.

The village will be administered by a 'panchayat' which would take care of the law and order of the village. It will also have a common market (Haat) and will house a school, which will provide primary and secondary education. It will include a hospital, a Waste Management Centre, emergency services, uninterrupted power supply and potable water. Design by Dev Agarwal, Class 11 &

Anikaith Anant Joshi, Class 9.



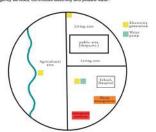
Village management and living arrangement

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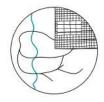




Transportation

The village is internally connected by 2 lane roads made of concrete. The village will also have

easy access to nearby towns and cities Electric bikes which can accommodate 2 people will be used. This will help reduce our carbon footprint. Heavier non-commercial(luggage etc.) loads can be carried in electric three wheelers that can be loaned via an online app for money, in a similar system to Yulu cycles, a company in bangalore. These 3 wheelers can be picked up and dropped off at designated zones, with a penalty fee if not done so. Most important or public areas are within walking distance of the main housing area of the village as well. Electrical tractors will be used for agricultural











Energy

The village will be powered by the 2 MW platform created by GE renewable energy , with an estimated output of 2 MW, we pn to be able to power

OUTPUT (MV)	2	
ROTOR DIAMETER(m)	116m	
HUB HEIGHTS(m)	80m	
FREQUENCY(Hz)	90Hz	
IEC WIND CLASS	IISAIIS	

Our wind turbine produces a total of about 2 mWh of power=2000 kWh(1 mW=1000 kW) and in total produces

2000 (energy produced) x 24 hours = 48000 kWh per day
The average 4 family household in a 2000 sq ft consumes approximately 30 kWh of electricity in

a day. Therefore our 750 homes will generate a total of 30kWh x 750= 22500 kWh

Which is 46.875% our estimated output, easily allowing us to compensate for sudden spikes in energy consumption and drops in production, list event of a malfunction of the turbine, power can be temporarily generated in the waste management center where biogas is produced.



Waste mitigation

The village will strictly follow the concept of 3 R's. Recycle, Reduce, Reuse The village will have an underground Sewage system which will be connected to all the houses. This system will then lead to the visite Management center where it would be purified and drained into the river.



Agricultural waste such as they peddy etc, is usually burned however it will instead be collected and then anaerabically dispetad to give methane this bidges can be used for cooking by the villagers and can also be used to generate electricity in case of a malfunction in the wind futuritier. This process will also give organic fertilisers as a by-product which can be used by the farmers. The sociol root organic reside would be segregated and sent for cycling postners.

Art Department



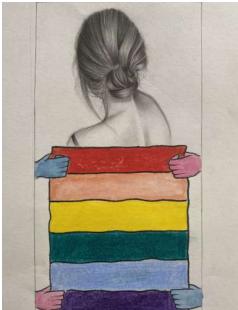










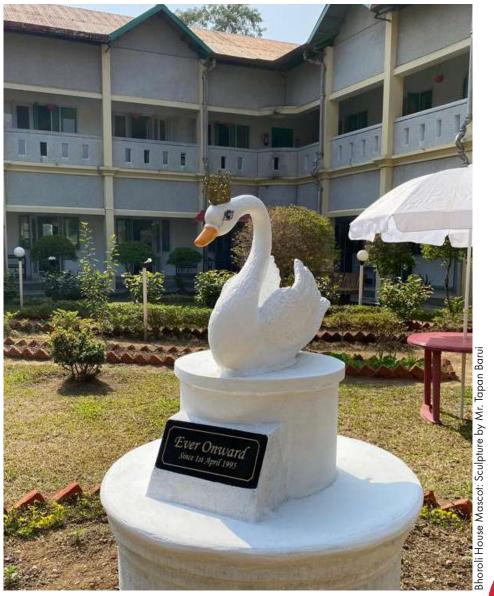




Artworks by:

Anvita Dey, Class 10, Reemeya Mithi, Class 9, Anvita Dey, Class 10, Reemeya Mithi, Class 9.

Previous page: Top to Bottom, L to R: Harshi Kashyap, Class 11, Anvita Dey, Class 10, Reemeya Mithi, Class 9, Bhavya Kejriwal, Class 7.





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