

## DESH APNAYEN NEWSLETTER

14<sup>th</sup> Issue, September 2016

### From the Editor's desk

Dear readers,

Hello!

This month has been extraordinary for Indian sports – we won four medals in the Paralympics and emerged victorious in our 500th cricket test match against formidable New Zealand.

What makes us prouder, though, is what the budding engineers of IIT Mumbai have achieved. On 26th September, ISRO launched the SCAT-SAT1 for ocean and weather related studies. It was India's longest mission, spread over two hours and fifteen minutes. The rocket is carrying five foreign and three Indian satellites, and also includes first ever satellite made by students of IIT Bombay. Brilliant, isn't it?



Image source – [www.bgr.in](http://www.bgr.in)

News source -

[http://economictimes.indiatimes.com/articleshow/54517690.cms?utm\\_source=contentofinterest&utm\\_medium=text&utm\\_campaign=cppst](http://economictimes.indiatimes.com/articleshow/54517690.cms?utm_source=contentofinterest&utm_medium=text&utm_campaign=cppst)

In our blogs and social media, we encouraged you to participate in the voting for the Padma awards and also introduced you to some unique civic change makers of the world, in the hope you to inspire you further! Let's do the little things to make our great nation proud.

Aditi Mehta, Editor

## The story of India's longest satellite launch

A team of students, teachers and technicians were behind three of the seven satellites India launched into space on 26th September 2016. Here are some things you need to know about our longest ever PSLV launch, courtesy, The Internet Desk at The Hindu.

The ISRO workhorse injects eight satellites in two different orbits.

On Monday, India's workhorse PSLV, for the first time, injected eight different satellites, including weather satellite SCATSAT-1, into two different orbits.

### Here are the details of the launch and payloads:

- The PSLV-C35 was launched from the first launch pad of Satish Dhawan Space Centre SHAR, Sriharikota at 9.12 a.m. on 26.9.16. The total weight of all the eight satellites is about 675 kg.
- The SCATSAT-1 was released first into a 730 km Polar Sunsynchronous Orbit (SSO) after about 17 minutes and the rest were injected into a lower orbit of 689 km after around two hours. The flight is PSLV's longest ever.
- Besides SCATSAT-1, the others are PRATHAM and PISAT, two academic satellites from India; ALSAT-1B, ALSAT-2B and ALSAT-1N (all from Algeria); and Pathfinder-1 and NLS-19, from the USA and Canada, respectively.
- The mission objectives of SCATSAT-1 were to help provide weather forecasting services, cyclone detection and tracking. It has a design life of 15 years.
- The five-kg student satellite PISAT carries an imaging camera as payload to capture imagery of 185 km x 135 km area with about 80m/pixel resolution. The satellite is developed by students of PES University, Bengaluru.
- The other student satellite, PRATHAM, is developed by IIT Bombay.



Team Pratham. Image source – [aero.iitb.ac.in](http://aero.iitb.ac.in)

- The PSLV has so far launched 39 remote-sensing satellites of ISRO, including the Chandrayaan-1 of 2008 and the Mars mission of 2013-14.
- It has also orbited 74 foreign commercial and university satellites in a global trend where the demand for its category of launch services is increasing.



Image source – The Hindu

## Contribution from partner schools

The children, teachers and staff of Pawar Public School in Bhandup and Dombivali were involved in some wonderful activities the last month, all inspired from Desh Apnayen's Citizenship Club (read more about it here).

Here are some snippets of these activities.

Pawar Public School, Bhandup

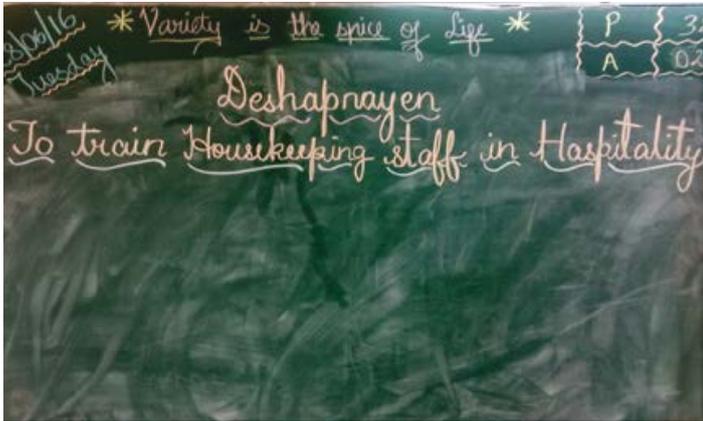
### Work is worship:

Kids were taken down to the medical room where they were taught how to make neat and tidy beds. They were then asked to make such beds. This was followed by a discussion in which the teacher taught them gender equality.



### Spreading knowledge, love and care:

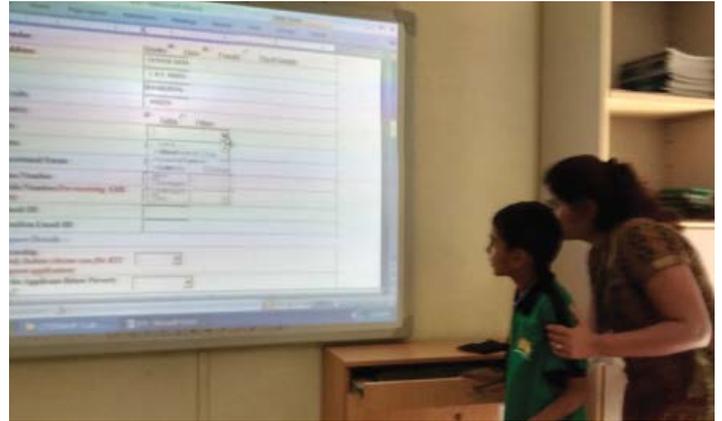
Through role-plays, the children enacted the importance of training the school's house keeping staff in principles of good hospitality.



### Exercising our Right to Information:

As a part of the citizenship club, children were taught how to file an RTI Plea. The teacher first explained the meaning of RTI and the objective of filing it. Then she explained the procedure of filing a RTI Plea both manually and online. Later the kids were called to fill the RTI Plea online (simulation).

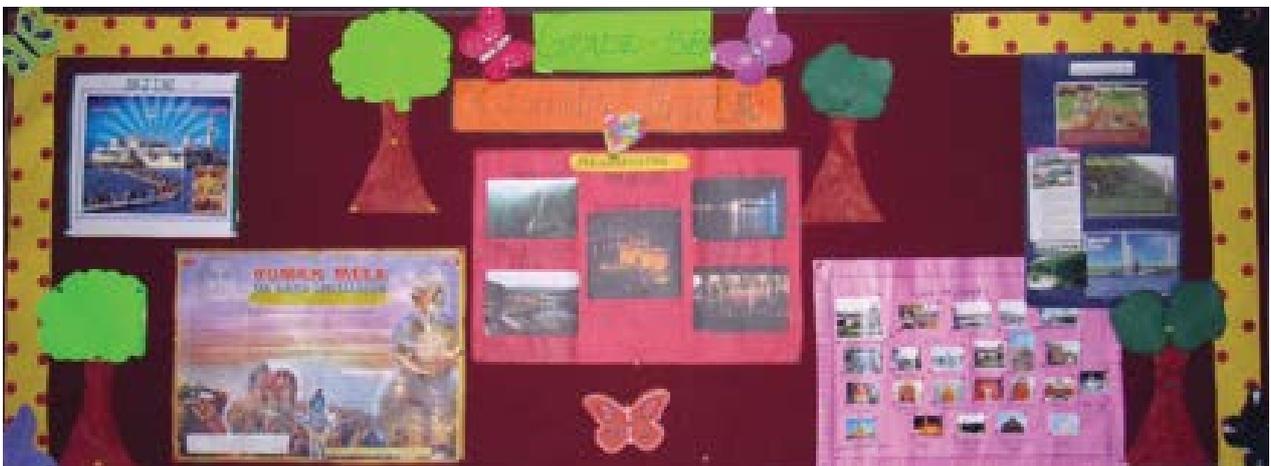
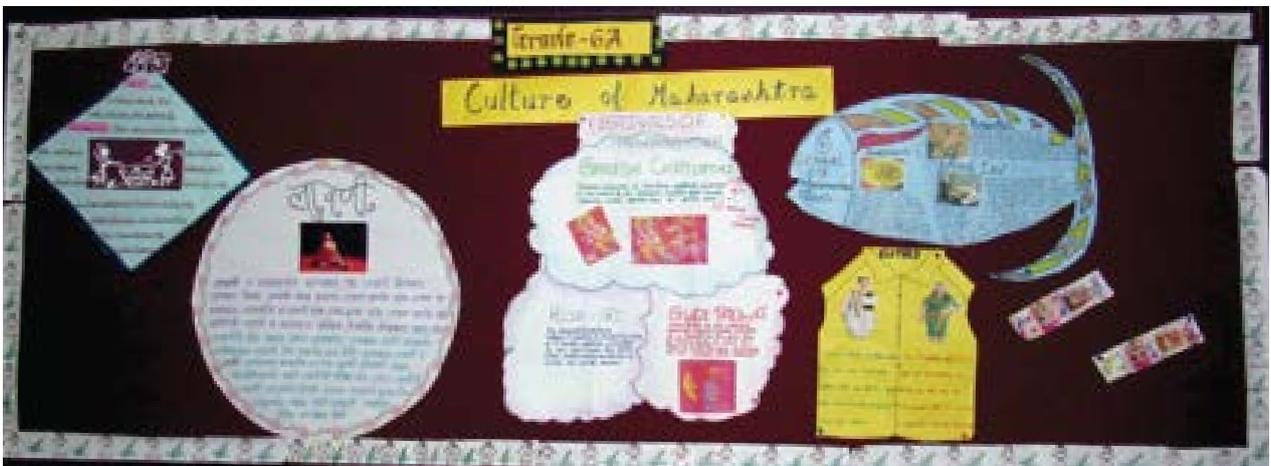




Not to be left behind, Pawar Public School Dombivali also celebrated the patriotic spirit in true gusto and style. To celebrate our 70th independence day, they held events like colouring the national flag, sending 'thank you' postcards to our brave jawaans at the border, a 'freedom run' marathon and plays depicting the 'Quit India' movement and our various Prime Ministers.

We salute their endeavors.





## Fun and Games

### India and ISRO

Since this has been a 'space charged' month, let's see how engaged you are with our Space Research Organisation, ISRO.

Highlight the right answer and send us your correct answers to be featured on our social media pages!



Who founded the ISRO in 1962?

C. V. Raman

Vikram Sarabhai

Meghnad Saha



Where is the ISRO Head Quarters situated?

Bengaluru

Chennai

New Delhi



In which year does ISRO plan to carry out the mission to the Sun, called Aditya-1?

2014-15

2015-16

2020-21



True or False: The Motto of ISRO is "Space Technology in the Service of Human Kind".

True

False