

# Vigyan Ashram Status Report

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## *In this issue*

- Remembering Amma on her first anniversary
- Women Day Celebration! From Pabal to Rashtrapati bhavan
- DBRT students done Soil testing at Parali (Latur)
- Fabrication of Nirgudi oil extraction machine

### **A] Remembering Amma on her first anniversary**

Vigyan Ashram observed Amma's first anniversary as 'Art Day' on 18th March. In the morning, we observed meditation for 15 min in the memory of Amma. Thereafter we had three workshop 1) Sculpture Making under guidance of Sculpture artist Mr.Prabhakar Sing 2) Stone painting & Fabric painting by Ankita 3) Drawing and painting under guidance of Rohit Kokil. Students, elders, children took part in the workshop. It was day filled with fun, creativity and Making interesting things!



**VA's ART Day : Workshop on Sculpture, drawing & painting**

## B] Women Day Celebration: From Pabal to Rashtrapati Bhavan

### i] Girl Power @ Ashram :

On 8<sup>th</sup> March; 40 ladies staff and students at ashram celebrated International women's Day. It was discussion about women role models and empowerment. Beside it was celebration with music, song and dance.



### ii] Festival of Innovation (18<sup>th</sup> – 23<sup>rd</sup> March)

Ms Supriya Kadam represented Vigyan Ashram @ Festival of innovation organised by National Innovation foundation at Rashtrapati Bhavan, New Delhi. We have demonstrated our technology portfolio in an exhibition organised at Rashtrapati Bhavan. Supriya met S&T Minister Mr.Harshavardhan, DST Secretary and informed them about our program. Supriya also participated in the round table discussion of 'Design Innovation Center'.



Parvati accepting award from President of India



Supriya talking with Secretary - DST (Govt of India)

ii) Vigyan Ashram alumni Parvati got 'Nari Shakti Samman 2017'. Last year twenty girls from Jashpur (Chattisgarh) completed Bakery training at ashram. They have started their bakery unit in the name 'Beti Jindabad Bekery'. We are proud that President of India honored our student Parvati on the occasion on International Women Day. Here is newslink of the award :

[http://www.patravarta.com/2018/03/blog-post\\_11.html?m=1](http://www.patravarta.com/2018/03/blog-post_11.html?m=1)

## C] IBT Updates:

i) IBT program was inaugurated at Samarth Vidyalaya, Chimbali Phata on 20<sup>th</sup> March. Along with School management committee members, teachers, parents and students were present.

ii) Sample activities in the IBT schools:



- ➔ 9<sup>th</sup> standard students of Nutan Madhyamik Vidyalaya, Aichale (Nandurbar) made potato chips from 10kg potato. After drying, chips weight was 3kg. They sold them in 30 packs of 100gm each. Total Sale Rs.450/-, expenses were Rs.260 and margin was Rs.190/-
- ➔ IBT students of Hanuman Madhyamik Vidyalay (Nimgaon Bhogi) completed order of 4 poultry cages for farmers.
- ➔ IBT Pabal students made work table of 8 \* 2.5ft size for electrical section.
- ➔ IBT students @ Punruthan Samrasta Gurukulam, Chinchwad made Garden tower as part of their engineering and agriculture practical's.



iii) IBT student's project exhibition was organised on 25<sup>th</sup> Mar at Hiware school. Total 130 students from 5 schools had participated along with 36 innovative and useful projects. Exhibition was inaugurated by Mr. Manimaran, IL&FS. Mr. Ashishkumar and other colleagues from IL&FS, Nalanda Foundation, School headmasters, IBT instructors, villagers were present for this program.



IBT Exhibition @ Hiware

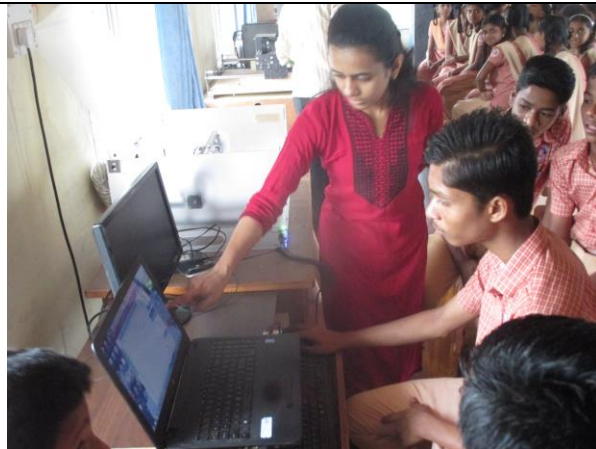


Visitors enjoying Seesaw made in IBT

**D] Installation of Mini Fab Lab @ Chikhalgaon :** Suhas and Supriya installed Mini Fab Lab @ Chikhalgaon IBT school. They visited Chikhalgaon from 14<sup>th</sup> – 16<sup>th</sup> March. DC Laser cutting machine and wood router both made @ VA fab lab. These machines were supplied from the Chevron STEM award amount received to Vigyan Ashram. We gave training on machine operation and conducted FabEd camp.



Wood router training @ Chikhalgaon



Training on DC Laser @ Chikhalgaon

### E] DBRT Updates :

i) We have purchased two 500 lits water filters for hostels. DBRT students fabricated stand for water tank, did piping, installed pump and installed water heater. It was project for some of the students.



Solar water heater @ boys hostel

project under 'water foundation' initiative with the support of 'Global Parli' organization. Total 50

They also cleaned tubes of old solar heater.

ii) Engineering students installed Turbo ventilator on Kitchen Chulha room.

iii) Food lab supplied 5Kg Pooran Mix, Bread from 32 kg Maida and 3Kg dried vegetables to Kitchen.

iv) Team of DBRT student Tejas , Akash , Dhruva, Pandurang conducted training cum soil testing camp on 'soil analysis & fertilizer dose calculation' from 21<sup>st</sup> to 24<sup>th</sup> March at Parli region of Beed district. Training was conducted

for team leaders working for water conservation

samples were tested and report were given to farmers. Local team will test remaining 300 soil samples.

v) Electrical students carried out installation of Micro Solar dome in 12 unelectrified houses in Pasli (velhe) on 25<sup>th</sup> – 26<sup>th</sup> March.

vi) Councillor Mrs Rohini Achwal visited VA on 26<sup>th</sup> March and has session with students requiring attention.

vii) From bio-bed, we have harvested 61 Kg of tomatoes, 85 Kg of Alu in March. We have also



Soil Testing @ Parali



sold rose flower of Rs.800/- in March.

**F] Update - Technology development & Design innovation centre:**

**i) Set back to AQUAPONIC Trails :** Due to circulation motor pump & timer failure, we lost almost 220 fish in aquaponics. These fishes were weighing around 159 gm each. Fish died in 2 days (22<sup>nd</sup> & 23<sup>rd</sup> March). We were observing, higher DO requirement from the beginning of March. This may be due to increased volume (by weight) of fish or by increase in water temperature. We tried to make some corrective measures like increasing circulation time, changed timer, added extra motor for DO etc but it doesn't work. We need to work on additional backup system for power failure. Now



**Fish mortality**

we have around 40 fish in tank, we have decided to continue trial till end of June. We have also started planning / designing new trails by considering these learnings.

**ii) Oil extraction unit (Ayurvedic oil making kettle) :** Fabrication work of ayurvedic oil making kettle is almost completed. It was done with the support of Mr.Anil Gosavi (Climber Envo. Solutions , Katraj Pune). Work of fabrication work of heating kettle, stirrer & its mounting mechanism, heating burner is completed. We are hoping to finish remaining work by first week of April and conduct trials on Nirgudi oil making. This unit is developed against order from Rural Commune.



**iii) Sprouter for Kitchen :** Under DIC project, Mayuri fabricated sprouting unit for VA kitchen. She has successfully tested it for difficult to sprout pulses like black-eye pea (Chawli), chick pea(Chole) etc in 24 to 48 Hrs.

**iv) Composter:** We are making steady improvement on Bio-composter designed by us. We have installed one composter in Siddharth housing society in Aundh, another improved composter was installed at Premia Society, Narhe. We are regularly monitoring it for its performance. We are trying to develop commercial version with the help of fabrication unit in Nasik. DIC student Chetan worked in Nasik for 15 days to finalize the design.

v) We are conducting various trials on **Sheffler solar concentrator** for food processing.

- For making Tomato Sauce : 10kg tomato

pulp was boiled to 3kg on 5 hrs. We have made tomato sauce from 32 kg tomato this month.

- Making Khava : 10 litre milk was made into Khava to make Gulab Jamun. Time taken : 4 hours.
- 5 Kg peanuts were roasted for food lab during this month using Scheffler. Time taken is: 1 hour.

We are calculating cost effectiveness viz-a-viz labour required for using solar concentrator.

vi) DIC students took guidance from Dr.J.B Joshi on 1<sup>st</sup> Mar (Pune) and 25<sup>th</sup> March (Pabal). Dr.Joshi Sir visited Vigyan Ashram on 25<sup>th</sup> and spend whole day discussing various projects at ashram.

vii) Yogasree published her project 'Power Cut/On Indicator' on Instructables Link : <http://www.instructables.com/id/POWER-CUTON-INDICATOR/>

### G] DIY Lab @ JPNC :

1. "3D printer & Electronics" workshop for students of "Sumati Balvan School " on 12 & 13 march (20 students)
2. "3D printing workshop" on 20 & 21 march 2018 (5 students), 24<sup>th</sup> & 25<sup>th</sup> march (8 students) @ Heramb Makers Lab.



### H] Other tit-bit :

- i) New hostel construction – First floor Slab was completed on 23<sup>rd</sup> March.
- ii) Yogesh attended project review meeting with Megger India (P) Ltd on 16<sup>th</sup> March at Mumbai.
- iii) We are thankful to following donors for their financial support to Vigyan Ashram : SPA Foundation, Megger India Pvt Ltd, Mr.Surendra Patil, Mr.Shrirang Deshingkar, Dr.Sudhir Prrabhu, Maharashtra Foundation
- iv) Yogesh and Supriya attended meeting of DIC at Pune University on 30<sup>th</sup> March.



Slab of Boys hostel : first floor

- v) Lecture on 'Make a Machine' for Fab Academy and DIC students by Mr.Anil Gosavi on 22<sup>nd</sup> March.
- vi) DBRT student Nirav left ashram on 12<sup>th</sup> March without informing anyone. He was admitted to VA by Child rehabilitation center in Pune. We have given missing person complaint to police.



- vii) Important visitors to Vigyan Ashram :- CM Fellowship tour (13<sup>th</sup> March) , MLA Mr.Pasha Patel (21<sup>st</sup> Mar), Mr.Uttam Kambale (10<sup>th</sup> March),
- viii) Visitors to Pabal campus – 129 ; Website : [www.dsttara.in](http://www.dsttara.in) – 951 (New-840, Repeated – 111), [www.vigyanashram.com](http://www.vigyanashram.com) – 1602(New visitor –1293 Repeated-309) ,[www.vigyanashram.wordpress.com](http://www.vigyanashram.wordpress.com) –2359 (Visitor- 1599 Viewers-760 )
- ix) Weather record – Rainfall – 0 mm (Total 882 mm) ,Max temp- 28°C, Min Temp – 16°C , Humidity – 49%, Water height in well – 6.5 mtr .
- x) Energy consumption record- Electricity unit – III Phase- 1308 unit, I Phase- 1104 unit. Quality of power: Number of interruptions: 127, Normal voltage: 81.96 % , No supply: 8.45 % , low voltage: 10 % , high voltage : 0%, No data: 0%;
- xi) Two wheeler usage : 571 kms
- xii) Biogas consumption – Dung used- 115 Kg, Gas produced- 29.8 m<sup>3</sup>.



Sakaal Editor Mr.Uttam Kambale

#### Data Report :

[https://drive.google.com/open?id=0B\\_Jk2xLqAXicWEYxUGxjT2Q4S1FBSTIERnR5RHfMwFBsTIJN](https://drive.google.com/open?id=0B_Jk2xLqAXicWEYxUGxjT2Q4S1FBSTIERnR5RHfMwFBsTIJN)

For Regular update: [www.facebook.com/vigyan.ashram.pabal](https://www.facebook.com/vigyan.ashram.pabal)

Our sites : [www.learningwhiledoing.in](http://www.learningwhiledoing.in) , [www.dsttara.in](http://www.dsttara.in) , [www.vigyanashram.wordpress.com](http://www.vigyanashram.wordpress.com) , [www.vadic.wordpress.com](http://www.vadic.wordpress.com) , <https://ruralstartup.wordpress.com/>

(Work of VA is supported by Asha for Education, Praj foundation, EATON Foundation, SPA Education Foundation, Megger (I) Pvt Ltd, Tata Motors, L & T Infotech, INDUSA Endowment, Unicef, Govt of Chhattisgarh, Nalanda (ILFS) foundation, Savitribai Phule Pune University, Lend-a-hand-India, Suzlon foundation, Fab foundation, Dept of Science & Technology, and many individuals and foundations)

#### Photo Gallery :



Dipak giving talk on entrepreneurship opportunities @ SSP, Solapur on 16<sup>th</sup> March



Turbo ventilator on Kitchen Chulha room





Fabric painting workshop on 18<sup>th</sup> March



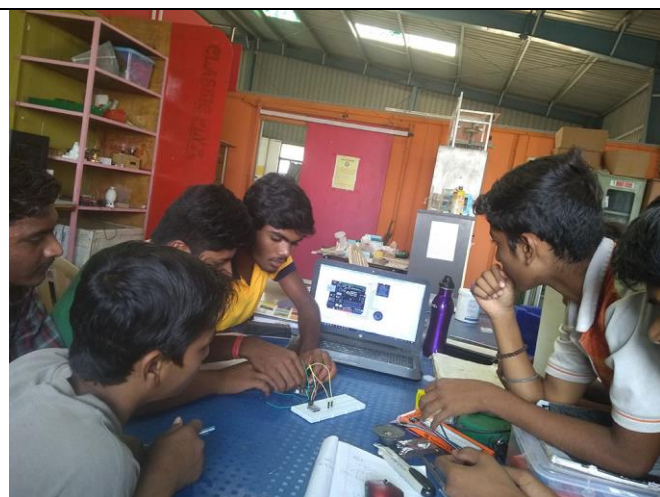
Sprouting unit made by DIC student.



Vigyan ashram stall at Rashtrapati Bhavan



Prof.J.B Joshi and students of DIC and ICT



DBRT Fab Class



Installation of Micro Solar Dome @ Velhe