

# Vigyan Ashram Status Report

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### **A] Micro Solar Dome installation at Bhimashankar tribal area:**

DBRT and Fab Lab team installed Micro solar dome in remote villages in Bhimshankar tribal areas on 30<sup>th</sup> and 31<sup>st</sup> October 2017. We have installed solar lights in 14 un-electrified & remote houses in Savarle, Pimpri, Falode village. It was memorable and fulfilling experience for team to provide service to the deserving people. Watch short video of work on:

<https://www.youtube.com/watch?v=1O0KhWz4U2Q>



### **B] Sky Lantern Making workshop**

In preparation of 'Diwali Festival'; Vigyan Ashram has conducted several workshops at Pune and Pabal to make Sky lantern. We have made standardized kit to make lantern.

i) Workshop at D-I-Y Lab on 8<sup>th</sup> October was organized in collaboration with 'Maharashtra Times' Cultural club. Total 46 participants learned to make lamp using electronics. It was really challenging for many of them to do electronics. Buts it was a learning experience for all of us.



ii) Similar workshop was conducted at 'Rajashree Shivaray School' with 20 Students on 3 October 2017.

iii) Workshop was conducted at 'GuruKulam School ,Chinchwad' for 15 participants on 11 October 2017.

### C] Vigyan Ashram participated in India International Science Festival (IISF), Chennai

Supriya and Yoga Sree participated in IISF 2017 held at Chennai from 13<sup>th</sup> to 16<sup>th</sup> October. We have exhibited information about DIC projects along with Pune university DIC team. They have also visited Shri A.M.M. Murugappa Chettiar Research Centre (MCRC) and learned about their technologies.



Supriya and Yoga Sree at IISF



Digital Fabrication : Fab Textile @ ashram

**D] Fab Textile:** We have purchased two machines - digital embroidery machine & sewing machine. We hope to make many fashionable cloths using them. These are digital machines and embroidery can be drawn on computer and send to the machine. We have done aluminum & glass partition to make separate cabin for this lab next to computer lab.

### E] IBT Updates:

- IBT instructors training was held at Pabal from 26<sup>th</sup> Oct to 29<sup>th</sup> Oct. It was advanced training program. Total 29 instructors from 11 schools participated in it.
- IBT setup (electrical wiring and kitchen table) was done on 16<sup>th</sup> Oct at Pabal High school. This is the first IBT school started in 1987 and we have upgraded the setup with the financial support of L&T Infotech.



Fabrication job during IBT training

- Yogesh visited Vidya-Vanam high school, Coimbatore on 6<sup>th</sup> and 7<sup>th</sup> Oct. They are planning to start IBT program. Yogesh conducted session with teachers and school children in Vidya vanam.

He also visited IRTC,Pallakad (DST core support group) and Aatrral Academy (Maker Space) in Coimbatore.

- IBT video conferencing lecture on Drawing and project management was conducted on 28<sup>th</sup> Oct for Atal Tinkering Lab, Nagpur and IBT schools.

## F] IBT CG

- Sachin visited Dantewada & Bijapur from 25<sup>th</sup> – 29<sup>th</sup> Oct. He met Govt Educational officials in both districts to review progress of the IBT and to follow up on administrative issues.
- MOU is signed with District admin of Dantewada to setup a D-I-Y Lab at Palnar village.
- IBT program review meeting of 17 schools was held on 28<sup>th</sup> Oct at Dantewada. Meeting was Chaired by CEO,Dantewada. 53 persons including 14 Adhikshak and 39 IBT instructors attended the meeting.
- Seating Place for parents: Last year IBT students from Bijapur Porta cabin school prepared Chabutara (Shed) for meeting parents. It was appreciated by Govt. officers. Now it was decorated to Welcome Parents and Visitors.



## G] DBRT Updates:

- DBRT first section examination was held on 12<sup>th</sup> and 13<sup>th</sup> October. Students changed their section from 22<sup>nd</sup> October. There was Diwali holiday from 14<sup>th</sup> – 21<sup>st</sup> October.
- DBRT agri dept harvested corn fodder on 28<sup>th</sup> October. They made 725kg Silage from it.
- We have given our cow to local farmer Mr.Tamhane to improve her and insemination problem.
- Kojagiri was celebrated with camp fire on 5<sup>th</sup> October.
- Speaker and sound system is installed in new classroom. We got table fabricated in the classroom to properly setup LCD project.
- DBRT students carried out exterior painting of Ladies hostel.
- Bio toilet plant tank got leaked and M/S KK NAG has send another unit on 31<sup>st</sup> Oct.
- Analysis of 2800+ soil samples from 12



Wiki OCR Training

villages is completed. Computer class students are doing data entry of soil health cards. Work on online data feeding for for nearly 10000+ farmers is completed. We have done soil testing of @ 15000 farmers.

ix) Mr.Subodh Kulkarni (Expert -Wiki) visited VA on 29<sup>th</sup> Oct for training on Wiki Marathi editing work. We have resolved problems in scanning of books and OCR.

### H] Update - Technology development & Design innovation centre:

i) Dr.Arun Dixit and Ranjaeet visited BAIF developmental trust, Urali Kanchan on 10<sup>th</sup> Oct for studying new fodder techniques for adopting them at Pabal. We have shortlisted Cactus (*Opuntia ficus indica*) and BAIF Napier (Hatti gavat), fodder Oat, Berseem for our campus.

ii) Ranajeet presented paper on 'Nai Talim 2.0 - Fablab for digital fabrication' [ Read paper on <https://goo.gl/xHnp1C> ] in a conference organized by NUEPA at Delhi. Theme of the conference was 'Gandhian Educational Ideas in Policy Perspective - Challenges, Problems and Prospects' held at NUEPA from 3rd to 5th October, 2017.

iii] Video made by VA on 'Advanced fodder production technique' become viral on you tube. It got more than 2 lacs views. Our staff Mr.Vishwas Shinde , who had posted video from his account got \$100 from google for posting this video. (<https://www.youtube.com/watch?v=rs9SMOPDxrs> )

iv) Harvesting Gloves: Komal made hand Gloves for harvesting vegetables especially Okra. By wearing these gloves, you can easily cut Okra (lady finger) in the field. She made blade holder using 3D printer and attached it to hand gloves. ( video on : <https://goo.gl/H7YfBN> )

v) Power cut indicator : We have inverter in the DIC to take care of variation in electric voltage. During power cut, the battery in DIC was getting drained completely since students were keep using it during the power cuts. Yoga Sree developed a circuit which will give alarm once there is a power cut and glow red light. This will give signal to users that they must save their data in the systems and turn off the systems during the battery use.

### I] Entrepreneurship Accelerator

i) Awareness meeting : We are organizing Entrepreneurship Development workshop in November. To create awareness about the workshop, Ranjeet and Dipak visited Faloda & other places on 31<sup>st</sup> Oct and 1<sup>st</sup> Nov. They met SHG members and youth in the following organizations Chaitnya Mahila Vikas Santha (Rajgurunagar) , Maharashtra Arogya Mandal (Dhimbe) and Shahid Rajguru Mahila Vikas Mandal (Faloda, Bhimashakar).



#### Advance Fodder Production Techniques ▲

220,759 views



744



55



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ii) Dattatraya Chaudhari (Kopargaon, Shirdi) started his motor re-winding enterprise at his native place. Datta is 2015 batch student. Till now he was operating his enterprise from his house but with the increased in demand & confidence, he has set up a proper workshop.

#### JJ Other tit-bit :

i) Mr.Rushikesh Kirtikar (TISS) PhD student is doing his PhD on work centered education. He is in VA for 3 weeks for data collections.

<https://varesearch.blogspot.in/>.

Mr.Shardul for Symbiosis institute of business management joined DIC for short term project. He will manage VA facebook, Instagram and setup linkedIn account. He will do promotion of Fab Academy and Food processing course during his internship project.

ii) We have got Fab Walker Kit made by Fab Lab, Kamakura. We have assembled it and it works fine. Its video link : <https://youtu.be/dQCOKR49nZA>. Now planning to make it in our Fab Lab.

iii) We are thankful to following individuals for their financial support to Vigyan Ashram: a) Smt.Alka Himgorani b) Smt.Sheela Manik Patkar c) Smt.Utkarsha Chandrakant Talwalkar d) Deepak D. Tirodkar.

iv) Mr.Agarkar , farmer from Pabal donated Atta chakki (floor mill) and grain Screening machine.

v) Two French Engineering student Mr. Thibaut and Paul visited VA on 17<sup>th</sup> to video document Energy projects at VA. Mr.Nagaraj from SEWA Rural visited on 24<sup>th</sup> and 25<sup>th</sup> Oct to study VA's educational program.

vi) Visitors to Pabal campus – 270 ; Website visitors : [www.dsttara.org](http://www.dsttara.org) –703 (New-568 ,Repeated –135) [www.vigyanashram.com](http://www.vigyanashram.com) –1922 (New visitor –1414 Repeated-508), [www.vigyanashram.wordpress.com](http://www.vigyanashram.wordpress.com) –2111 (Visitor- 1418 Viewers-693)

vii) Weather record – Rainfall – 158 mm (Total 872 mm) ,Max temp-34°C, Min Temp – 18°C , Humidity – 64%, Water height in well – 2.5 mtr .

viii) Energy consumption record- Electricity unit – III Phase- 579unit, I Phase- 1000 unit. Quality of power: Number of interruptions: 36, Normal voltage: 63.3 % , No supply: 3.07 % , low voltage: 0 % , high voltage : 1.56 % ; Two wheeler usage : 241 kms

ix) Biogas consumption – Dung used- 492.5 Kg, Gas produced- 21.83 m<sup>3</sup>.



**Floor Mill (Atta chakki)**

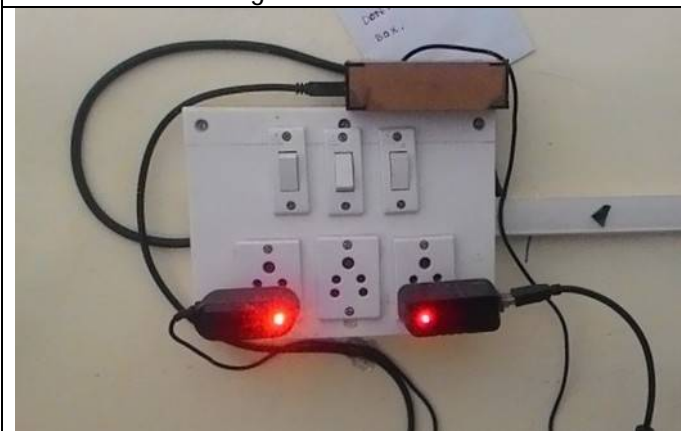
Data Report: <https://goo.gl/PPAaku> For Regular update: [www.facebook.com/vigyan.ashram.pabal](http://www.facebook.com/vigyan.ashram.pabal)  
Photo Gallery:



Instructors meeting @ Dantewada



Okra (bhendi) harvesting gloves



Circuit to give alarm during power cut



DBRT workshop practicals



Silage making in agri section



DBRT team doing painting of ladies hostel

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/>

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