

Vigyan Ashram Status Report

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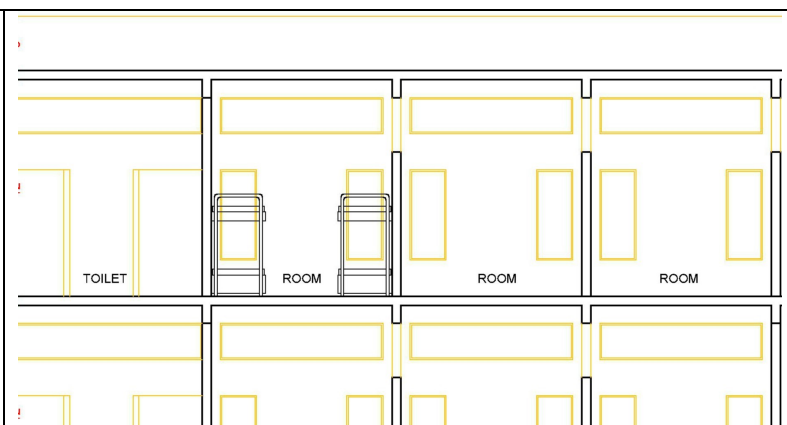
- Construction of New Hostel started
- Entrepreneurship development program on Food processing
- IBT exhibition at Shikshan Wari @ Latur
- MOU signed with Marathi Vidnyan Parishad

A] Construction of New hostel building

We have started construction of new hostel for DBRT on 9th Nov 2017. Old hostel no.2 was demolished. DBRT student Akash performed ground breaking rituals (Bhoomi Poojan). Event was attended by Ms Jyoti Gawade (Asha for education volunteer - Seattle) and Mr.Ashok Kalbag (Mumbai) via video conference. We are expecting to complete the work by May 2018. Thank you ! Asha for Education - Seattle chapter for their financial support. Estimated cost of construction is Rs.52lacs and we have raised funds of Rs.32 lacs so far.



Hostel no.2 : Before getting demolished for new hostel



It will two storied building with 12 rooms, approx.3600sq.ft construction. It will house 40 students.

B] EDP on food processing businesses:

Entrepreneurship Development Program on food technology based rural enterprises was conducted from 16th to 19th November at Pabal. Training discusses various topics like drying, pulping, packaging, FSSAI licensing etc. Technical sessions were conducted by food industry experts viz. Mr.Vikram Bhujabal, Mr.Dhanjay Abhang, Mr.Sunil Kulkarni, Mr.Sumedha Jalgaongar, Mr.Geetaram Kadam, Mr.Altaf Shaikh, Mr.Mukund Kamble, Mr.Sameer Kulkarni and Mr.Raval. Workshop was attended by 29 participants from Maharashtra, Rajasthan, Madhya-Pradesh.



C] Dantewada visit & Fab Lab at Palnar

- ➔ Yogesh was invited to give a talk at Tribal Entrepreneurship Summit organized by Chattisgarh Govt and Niti Ayog on 14TH Nov at Dantewada. He also visited IBT schools in Dantewada district.
- ➔ We have got sanction from Dantewada District administration to start a Fab Lab at village Palnar. Palnar is cashless village in Chattisgarh. Yogesh along with Pratik Gadkar visited Palnar school and finalized location of the lab. It will be techno-social challenge to establish a Fab Lab in Palnar.
- ➔ Yogesh conducted interview for the post of Fab Lab engineer and selected Ms Revati for the post. She will be based in Palnar and manage the lab. Revati joined Vigyan Ashram for training on 22nd Nov.



Location of Palnar on India Map

D] Himachal Science congress

Suhas and Rohan represented Vigyan ashram at 2nd Himachal Pradesh science congress at Shimla on 20th and 21st November. Theme of the conference was 'Technology for Sustainable development in Himalayan region'. They also visited Fab Lab at Chandigarh and AKGEC fab lab in New Delhi on 22nd and 23rd Nov.



E] IBT Updates:

i) **Wiki pages for IBT** : Intern from AzimPremji University was given a project to train IBT students in creating wiki pages of their own villages. Accordingly following IBT schools created their wiki pages.

1. चिंबळी <https://mr.wikipedia.org/s/3x78>
२. मोई <https://mr.wikipedia.org/s/3vi4>
३. निमगाव भोगी - <https://mr.wikipedia.org/s/3vmg>
४. निघोज - <https://mr.wikipedia.org/s/3pr6>
५. मुखई - <https://mr.wikipedia.org/s/3pr7>
६. धामारी - <https://mr.wikipedia.org/s/3pq5>
७. कैदूर - <https://mr.wikipedia.org/s/3070>
८. कोहिंडे बु. - <https://mr.wikipedia.org/s/3vme>
९. असदे - <https://mr.wikipedia.org/s/3tu7>
१०. गुजर-निंबाळकरवाडी - <https://mr.wikipedia.org/s/3x42>
११. पाबळ - <https://mr.wikipedia.org/s/300s>

We are planning to train IBT students in creating wiki content as part of training and soon hope to have wiki pages for all IBT schools.

ii) **IBT training** : 5th IBT instructor training program was conducted at Vigyan Ashram, Pabal from 2nd – 5th Nov. It was a 4 days training program in which total 48 IBT instructors from total 23 schools across Maharashtra had participated. Along with design thinking methodology, trainees were introduced to use of the internet to find innovative project ideas. Instructors selected few project ideas and worked

on them, it includes manual Cloth washing machine, vertical bottle garden using scrap, Making Silage, bread barfi, etc.'

iii) Shikshan Wari : Vigyan Ashram participated in 'Shikshan Wari 2017-18' event organized by the School Education Department, Government of Maharashtra. This event is aimed at exhibiting ideas to improve quality of education. There will be such exhibitions (Latur/Amaravati/Ratnagiri/Nasik). This was the first exhibition held at Latur from 17th Nov to 19th Nov, 2017. IBT Model schools : Loknete Dada Jadhavrao Vidyalyaya, Hingaongaon, Pune and Hutatma Umaji Naik Vidyalyaya, Bhivadi, Pune exhibited their projects. Approx. 6000+ people from teacher, students and government senior officers, MSCERT director visited our stall in this event.



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Shikshan Wari @ Latur

F] IBT CG

- ➔ IBT instructors training was conducted at Godre porta cabin (Dantewada) from 20th – 23rd Nov. Total 52 instructors attended the training.
- ➔ Similar training was conducted for instructors in Bijapur district at Bijapur porta cabin school from 26th – 30th Nov. Total 35 instructors participated in the training.
Main focus of the training was to use local material for IBT practicals. Five instructors from Vigyan ashram conducted the training.
- ➔ Mr.Ved Prakash joined VA team as a co-ordinator for Chattisgarh IBT program.



Instructor training at Bijapur

G] DBRT Updates:

i) Science through toys : Prof.Ulhas Tumane & Mrs.Tumane had conducted workshop for VA staff members on making scientific toys using trash. It was day long workshop at Pabal on 25th Nov. They learned to make small toys like & understand their science like flute, straw pump, sprinkler ,siphon ,spoke magnet, whistle, protractor, sextant etc.

ii) Dance : Based on demand from girl students, We have started Dance class for girls at Vigyan Ashram. 11 girls from Bhairavnath college are learning dance on every Saturday & Sunday. This is unplanned use of our new classroom and music system equipment's.

iii) Vocational dept officials from Pune Mr.Kanade and Mr.Dagade visited VA on 9th Nov to inspect our food processing training. This training is in progress with the Govt of Maharashtra support.



Toy making workshop

- iv) We have purchased two computers for Fab textile section and one printer for printing of soil health card.
- v) DBRT students has done electrical wiring of Fab Textile room.
- vi) Mr.Omkar and Mr.Vikram joined Agriculture and animal husbandry dept as instructor.

H] DIY workshop: Following workshops were taken by DIY Lab,Pune. Students were taught simple electronics and making small gadgets.

PMC Hutatma shirishkumar Vidyalaya School - 20 Students (6th & 7th Nov), PMC Rafi ahamed Kidvai Urdu High school - 20 students (16th & 17th Nov), PMC Sant namdev high school - 20 student (29th & 30th Nov).



I] Update - Technology development & Design innovation centre:

i) Vigyan Ashram featured in MAKE magazine :

Fellow from Watson Fellowship Mr. Liam Grace visited Vigyan ashram on 4th November 2017to write article in MAKE magazine . Article is available here :

<https://w/makezine.com/2017/11/28/open-world-fostering-india-maker-movement/>

Similarly, freelance journalist Ms Nicola from Germany visited Vigyan ashram on 19th Nov. She will be publishing story about VA soon.

ii) Scheffler Tracking : DIC Intern Ms Yogshree completed Sheffler solar tracking project. It is tested for 3 continuous day on the field. It used Arduino microcontroller and batteries. Scheffler dish is now rotate automatically pointing towards sun from 8am to 5pm. It also comes back to original position during night.

iii) BARC visit : DIC team visited BARC on 23rd Nov and discussed projects with Dr.J.B.Joshi. We are getting lots of guidance from Dr.Joshi sir on our projects. We got important tips on evaporative freeze and solar projects. Team also visited IITB and met Dr.Mahajani and team.

iv) Marathi Vidnyan Parishad : A MOU is signed between Vigyan Ashram and Marathi Vidnyan Parishad for adoption and dissemination of technologies.

v) **Fab Textile :** We have got training on software for designing and use of new computerized embroidery machine. Training was conducted by technician from Usha machine on 27th Nov at Pabal. Harsha is practicing on software and making new designs on different cloths types.

vii) Dr.Subir Bahaduri made and delivered sanitary napkin incinerator using pyrolysis principle. This unit is under testing with our ladies hostel.

viii) Rava roaster machine using solar energy is under fabrication.

ix) Dr.Dixit and Ranajeet had a meeting with CEO of Saswad Municipal

Corporation on 30th Nov. They have asked for solution for safe handling of sanitary napkin and medical waste on garbage trucks. We have given proposal for solution to be implemented on pilot basis.



Incinerator

I] Entrepreneurship Accelerator

- Ranjeet and Dipak visit to Falode on 1st Nov to discuss with SHG members. They had discussion with 5 youths, who had shown interest in starting their business.
- Mr. Manoj Zagzap has started his Rice dehusking business by purchasing VA's machine.
- Dipak made a business plan templates for businesses of Onion Ginger Spices, Nachani Ladu, Wheatgrass, Moringa Powder, Tomato Ketup etc.

J] Other tit-bit :

- Yogesh worked as a jury member for Aakruti competition organised by Solidworks on 11th Nov.
- Yogesh gave a talk on 'Technologies for rural development' for employees of Praj Matrix on 9th Nov.
- Visitors to Pabal campus – 64 ; Website visitors :
www.dsttara.org –763 (New- 671, Repeated –92),www.vigyanashram.com –1940 (New visitor –1318 Repeated-622) ,www.vigyanashram.wordpress.com – 2024 (Visitor- 1378 Viewers-646)
- Weather record – Rainfall – 9.3 mm (Total 882 mm) ,Max temp- 26 °C, Min Temp – 14°C , Humidity – 48%, Water height in well – 5.5 mtr .
- Energy consumption record- Electricity unit – III Phase- 816 unit, I Phase- 1011 unit. Quality of power: Number of interruptions: 73, Normal voltage: 40.57 % , No supply: 1.25 % , low voltage: 1 % , high voltage : 0 % ; Two wheeler usage : 446 kms
- Biogas consumption – Dung used- 935 Kg, Gas produced- 27.33 m³.

Data Report: <https://goo.gl/kuqV6o> **For Regular update:** www.facebook.com/vigyan.ashram.pabal

Our sites : www.learningwhiledoing.in , www.dsttara.in , www.vigyanashram.wordpress.com ,
www.vadic.wordpress.com , <https://ruralstartup.wordpress.com/>

Photo Gallery:



3D printed structure of IL&FS building made at VA



Instructors meeting at Narayangaon on 16th Nov





Bhoomi pooja of new hostel



DIY- Electronics workshop at PMC school



Video conferencing lecture on plumbing on 25th Nov



IBT Training @ (Godre) Dantewada



DBRT students doing partition of textile class



DBRT students working in Fab Lab

(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, INDUSIA 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)