# Vigyan Ashram Status Report

**Volume 32 Issue 6** **June 2014**

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- DBRT 2013-14 batch completed the course
- IBT instructors training and content development
- Kitchen construction work started
- Preparation for Fab10 at Barcelona

**A] Graduation of DBRT Batch 2013-14**

DBRT 2013-14 completed their course on 25th June. 31 out of total 45 students successfully completed the course. Remaining students will complete their course in coming months. 21 students joined apprenticeship (Fabrication - 14, Agriculture-2, Food processing-3, IBT Instructor- 1, Marketing- 1). Remaining 6 students decided to continue higher education and 4 didn't get placement so far.

All successful candidates got certificate at the hands of Amma in the function on 25th. Various awards were distributed in the function. Mr.Sachin Mali got 'Student of the year!', 'Best community service award' – Mr.Rajesh Padavi. He earned Rs.14000 by way of community services. Best DBRT project award to Mr.Anil Darekar & Mr.Rajesh Padavi). 'Best campus contribution project award' was given to Dream-house construction team. This batch has earned Rs.1,21,735/- by way of community services.

We are thankful to Asha for Education for their financial support. Also to Dnyadeep (Mr.Pophale), Mr.Jayesh Kulkari (Kusum Soham Parivar) for providing scholarship to deserving students.

**Admission for DBRT batch 2014-15 are started.** So far 35 students confirmed their admission. They are from Maharashtra, Tamilnadu, Andra-Pradesh, Chhattisgarh state.

A preparation and review meeting of DBRT staff for coming academic year 2014-15 was held at J.P Naik center, Pune on 27th June. Various decisions regarding improving quality of projects, seminar, discipline on campus, housekeeping etc were taken.

**Making the campus ready**

Following work has been undertaken to get ready to welcome DBRT batch 2014-15.

i) Painting of hostels ii) Repair of cots iii) Maintenance of toilets iv) Purchase of broken tools and safety gadgets v) Purchase of apron etc.

**B] IBT Instructor training**

IBT instructors training program was conducted from 11th to 16th June. Total 25 senior instructor (Class IX & X std.) instructors from 18 different schools participated in this training. This training was focused on improving skill and delivering content as per new guidelines under NVEQF. We have also introduced 'Design thinking methodology' for making projects and adopting new teaching resources as OER's, multimedia course material etc.

***Example of 'Design Thinking' process introduced in the instructor training →***

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| Defining problem in the surrounding: - Bricks are carried by hand on the kitchen construction site. Brainstorm the solution and develop the idea. Talk to the user and take their feedback. | Carry out the task : Learn material selection, measurement, manufacturing process, quality and use of safety. Use of powerpoint and learning resources to explain concepts. |

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| | Complete the product. Test it in the field . Do the costing and report writing. |

**C] Virtual Open Schooling**

NIOS sanctioned our proposal to develop content for online 'Rural Technology' course. This course will be conducted in a blended approach – Online class followed by 'learning while doing' projects. Vigyan Ashram team will develop the content in the form of lesson plan, power point, video, question bank etc and the course will be available online on NIOS website. http://vos.nios.ac.in/niosvirtual/

D] IBT certificates were given to all IBT passed out from 10th class students in Dhule, Sangli and Pench-Tadoba region. These are schools mainly supported by M/S Suzlon foundation and HKF-WCT.

E] District administration – Dantewada, Chattisgarh called for public tender from agencies to implement IBT program in 17 schools of Dantewada. We have participated in the tender and presentation was given to the administration on 25th June.

F] Yogesh visited DVET and met Director 13th June along with Mr.Kiran Inamdar. Meeting was to follow up on recognition of IBT schools. He also visited MPSP and RMSA office to follow up on the appeal given to Education Minister and Chief Minister. Yogesh also wrote letter to M.P of Shirur to attract his attention towards funds from central Govt scheme to schools run by trusts.

G] Ranajeet Shanbhag visited Hyderabad on 19th June at the invitation of Udbhav school (Rasoolpura , Hyderabad). They wanted to start IBT program in newly formed Telangana state. This school will act as pilot project in this regard. Ranjeet also visited IBT program run by Vigyan Vahini (Dr.Gogate). He also visited SEED (Society for Energy, Environment and development) to understand their solar drying technologies.

H] Ranjeet visited Deep Griha society, Pune (Chauphula campus) on 12th June. Visit was to guide Deep Griha in planning to start vocational trainings at their Chauphula campus.

**G] Kitchen Construction work-** New kitchen building construction work was started in this month. Work started with demolishing of old kitchen and office. It was quite emotional for many of us to demolish the old structure.

**H] DST core support project**

Hand operated rice de-husker

First prototype of newly designed, hand operated rice de-husking machine was fabricated and lab tested for its efficiency. This new prototype work with simple hand operated roller abrasion mechanism with minimum breakage percentage in de-husking. Agricultural Engineering (BTech) college students volunteers Mr.Sanat Prabhukhanolkar and Ms.Nilam Shirsat worked on development of this prototype.

**New prototype of hand operated rice de-husking**

**I] FAB LAB project**

Pradnya completed all her assignment for Fab Academy. She gave online presentation of her project on 4th June. She will be the first person from Vigyan Ashram to complete Fab Academy. As a project work, she made D-I-Y kit of Lux meter and anemometer. Since VA does not have Shop-bot machine & 3D printer, she faced difficulty in completing her assignments on those machines. She shared the design files of her assignment with Fab Lab friends in Philippines and Taiwan. They cut the job for her. Amitraj, Suhas and Tarunima also completed most of the assignment but could not complete all the assignment in the time limit. All documentation of Pradnya's projects are available on :
http://fabacademy.org/archives/2014/students/pradnya.shindekar/

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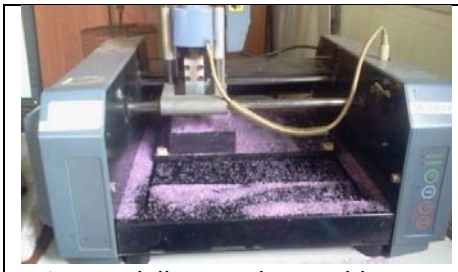
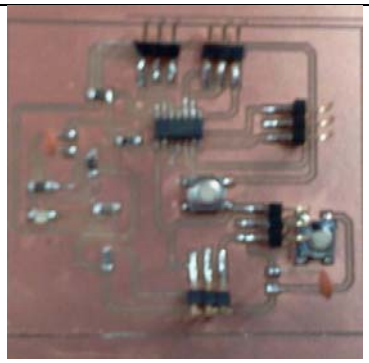
|  Using Modella to make mould | Engraved symbol of Vigyan Ashram |  Lux meter circuit milled on Modella machine |

**J] PRAJ Foundation supported "Technology Incubation cum Entrepreneurship Development centre (TIED)'project**

Work on TIED project for budding entrepreneurs was started. We will be providing fellowship to youth having potential to become entrepreneur. The fellowship will provide stipend for 6 month, facility to provide trial run of enterprise on VA campus with mentoring and hand-holding support. During these 6 months, fellows will give more emphasis on learning finishing skill (hard as well soft skills) required for their selected enterprise. Fellows will also prepare business plan for their proposed enterprise and work on one new technology development project related to their business.

**IDM 2013 Project (VLE training & demonstrations)-**

1) Awareness camps were organized in following villages of CG : Kumharas, Badejarka,Muchnar, Paunar (abujmad), Vahanpur, Koragali, Nakulnar, Budpaddar etc. Most of the villages are very interior and only accessible after 3-4kms by walk.
2) Mr.Aniruddhra gave information about lights in Kisan meeting held at Narayanpur (CG). Total 468 farmers were present for the meeting.
3) Pawan conducted following village level meetings were held in Balrampur District : Mukha,Kotsari,Karkepa,Liloti,Govindpur,Sarghadhi, Lurki,Padi,Khatvabardhar,Pasta, Chilma, Sargama
4) Total VLEs trained this month : 19
5) 4 solar villages are made – These villages are 100% using BOPEEI solar lamp.
6) An impact assessment team of World Bank representative visited Kathewada (MP) to document case study of the project.

**DBRT Activities**

i) DBRT students has taken contract from Mr.Balasaheb Daundkar for construction of shed in Kanersar. Size of the shed 30*40 ft and height 11ft.
ii) Students constructed temporary shed for cooking due to shifting of kitchen.
iii) Students work on farmers land to learn pruning (i.e how to cut pomegranate plants) before flowering on 8/6/2014.
iv) Checked 6 soil samples & give recommended fertilizer dose to farmers.
v) Students carried out plane table survey and draw map of old office and kitchen. They also draw map of new kitchen. Students carried out survey of all user of kitchen/office to find out

their requirement. New design was displayed outside the workshop for suggestion and comments.

vi) Cow milk yield record- Income – 645.75 Lit milk + 1601 Kg dung (Gross Income Rs.15505.00 ), Expenses – Rs.16423.00, Dairy loss this month = Rs. 918/-

**Other tit-bits-**

- Mr. Riichiro Takahashi of M/S Toshiba India Pvt Ltd. Visited VA on 18th June.
- News of DBRT admission published in Sakal 12th June
- Yogesh visited Yusuf Meher Ali Center – TARA village near Panvel on 15th June. He met Mr.Parikh and Mrs Vijaya Chavan. Visit was to help them to rejuvenate their vocational course.
- Aakaash tab training on various educational applications conducted for class 9th Students of Shri.Bhairavnath Vidhya Mandir , Pabal by INDUSA CARE computer lab.
- Ms Anita Pansare joined as Food Lab Instructor.
- Weather record – rainfall of the month -0.8 mm ,Max temp-33.93oC , Min Temp –21.36oC , Humidity – 52% , Water height in well – 7.80 M
- Energy consumption record- Electricity unit – Three Phase - 748 KWH, Single Phase -504 KWH Diesel consumption for generator- 0 Lit.
- Biogas consumption – Dung used- 1671 Kg, Gas produced- 17 M3.

**Data Report Link-**
**https://docs.google.com/spreadsheets/d/16-HLoSEdz3DDjZOnSiY-yBEtcLpRRU5e2fGSzeUsjjI/edit#gid=1055748733**

(Work of Vigyan ashram is also supported by Asha for Education, INDUSA, UNICEF, Govt. Of Chhattisgarh, Lend-a-hand-India, Suzlon foundation, Wildlife Conservation Trust, Dept of S & T , RGSTC, Praj Foundation and Many Individuals and foundations)

**Photo Gallery:**

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| Meeting with IBT instructors of Plan100 schools at JPNC | Meeting with IBT instructors of Plan100 schools at JPNC |

DBRT workshop students fabricating shed at Kannesar village

Completed shed in Kanersar

DBRT agriculture students performing grafting in farmers field

IBT instructor training - Chikki making

Dream house Team : Best Project

Pabal School IBT students - learning educational application on Aakkash tablet.