

# Vigyan Ashram Status Report

Volume 33 No 4

April 2015

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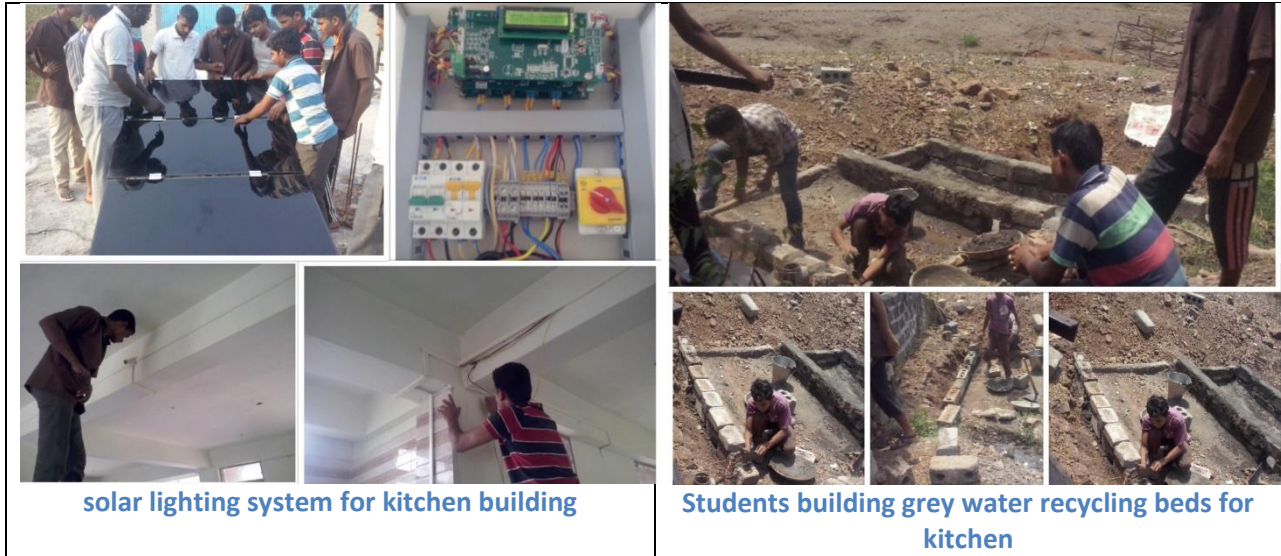
### **A] “Teaching through Research” conference @ CRI Paris**

Ranajeet participated in “leadership Workshop” held at Centre for research and interdisciplinary (Paris) from 13<sup>th</sup> to 18<sup>th</sup> April. His trip was sponsored by the organizers. This workshop was based on the theme “Teaching through Research” and aimed to bring together professional from the field of research & teaching and promotes new educational paradigms based on interdisciplinary. Ranajeet presented his project on “Training rural youth (farmers) in Research Techniques to prove use of appropriate farming technologies” and participated in poster presented held at “2015 Commons Congress” assembly meets held with the theme of “Connecting Open Research, Open Education, and Open Social Impact”. Total of 24 participants from different countries and global institutes participated in conference.



### **B] Installation of Solar Lightning and Water recycling system @ new Kitchen building-**

- Solar lightning system was installed on new Kitchen building roof top. This solar lightning system is having 270 watt solar PV Panel, 12V-7Ah\*12 nos battery storage and Smart Grid system controller to utilize available energy most efficiently. At present we have installed 12 DC LED tube lights and exploring other possibilities of using DC power in day time.
- DBRT students and Dapoli engineering college student intern built grey water recycling system for Kitchen. This system is consisting of live gravel bed (plants of colocasia and canna) and capable of filter 1000-1500 lit grey water per day.



solar lighting system for kitchen building

Students building grey water recycling beds for kitchen

### C] Skill training updates @ Livelihood college, Balarampur -

- Batch of 48 students, completed 1 month training course on “Basic accounting & Banking” at Balarampur on 26<sup>th</sup> April. These students were trained in basic accounting concepts, introduction to accounting software (Tally ERP .09) basic of cash book and banking etc.
- Batch of 28 students completed training course on Basic Solar Electricity and Solar lamp maintenance on 20<sup>th</sup> April. They have completed their training Jokapat village.
- Yogesh visited Balarampur from 26<sup>th</sup> – 27<sup>th</sup> April to review the program. He also met District Collector and take feedback about the training activities and next steps. Yogesh also visited villages of our students and discussed with the students and parents.



Basic accounting & banking training course

Solar Energy course trainee at Jokapat

### D] Entrepreneurship accelerator –

- Ashish Kale (DBRT alumni) got loan amount of Rs.1 lacs through RangDe (Micro finance organization). Ashish has started his fabrication workshop at Mangaon (Dist-Ratnagiri) in

January 2014. He will use this micro-finance support to increase his business output by adding new tools and raw material.

- Rajesh Padvi started construction of bakery furnace (Bhatti) at Narmdanager (Nandurbar). Rajesh has completed fellowship programme supported by Praj Foundation and we are supporting him for establishing bakery unit at his native place.
- Michael visited Lokamanya Tilak Vidhyal , Chikhalgaon (Dapoli,Ratnagiri) on 8<sup>th</sup>, 9<sup>th</sup> and 10<sup>th</sup> April to conduct School administration on establishing solar LED lamp assembly unit in collaboration with Thrive Energy Pvt Ltd.

## E] DBRT updates

Following are the highlighted of activities done by DBRT students this month -

- Team of workshop students erected Pabal Dome structure at Deep Gruh Society campus @ Chaufula village. Our alumni Mr.Kasim Inamdar are constructing these domes for the school.
- DBRT student Prafful fabricated & sold Drip Line Winding equipment as his project work. This winder equipment is sold to farmer in Khairenagar village.
- DBRT agriculture students conducted soil testing of 5 Samples. These samples were submitted by M/S Srinivas Charitable Trust from their farmers group.
- Energy & Environment students repaired Spot Welding machine.
- Annual Picnic : On 18<sup>th</sup> April, all DBRT students & staff went for picnic. They hired a mini bus and visited Shivneri fort, Ozar Ganesh temple, Lenyadri caves. They also Goat farm at Narangaon and Gawadewadi school.



## F] IBT program highlights

In this month IBT team was busy in planning of instructor's training program. Team is working on preparing detailed training schedule, content and communication IBT Schools. This year we have planned 3 training program for Maharashtra and Chhattisgarh state Schools. These trainings will be conducted in the month of May and June covering around 200 IBT instructors. Trainings will be based on

training need analysis (TNA) study conducted during last 2 months. Following are the other highlight of IBT program as –

- Ganesh and Sharad made model project of different stands for cloth drying
- Kailash fabricated solar re-chargeable LED torch and developed training material for it.
- Rajashekhar visited Matwada School in Bijapur with Shri.Sheshagiri (UNICEF) on 1<sup>st</sup> and 2<sup>nd</sup> April to review IBT program and finalize coming year plan.
- Farzan developed a sample blog page for IBT School Pabal. Idea is to have such blog for each IBT Schools covering information on biodiversity of IBT villages. Blog sample page available on- <http://www.sbvmitb.blogspot.in/>
- Yogesh along with Unicef officials visited Jashpur (CG) and had a meeting with district collector about IBT program on 28<sup>th</sup> April. He also met functionaries of Vanavasi Kalyan Ashram and Christen charity - Jeevan jharna Vikas sanstha to understand the issue of girl trafficking and increasing livelihood opportunities for them.
- Team from ILFS visited Gawadewadi school on 30<sup>th</sup> April to understand IBT program.

### G] Update on technology development –

- New marketable model (first version) of rice de-husking machine is ready and it was exhibited in Dhanya Mohsav-2015 @ Pune from 26<sup>th</sup> to 28<sup>th</sup> April.
- Recirculating Aquaculture farming (RAS)-RAS trial concluded in April with the mixed results on fish growth and biomass production ( crop yield). We got 5.19 % feed conversion ratio (FCR) for fish in 90 days trial period instead of targeted FCR of 1.5 %. The higher FCR percentage was due to various improvements required in fish farming. Various learning's from the trial are documented and will be useful for further trials.
- Mahua flower collecting umbrella - Mahua (*Madhuka Longifolia*) flowers is one of the important NTFP commodities. At present Mahua flower are collected from the ground by tribal and sold in the market. These fallen flowers get's dirty with low storage life. A simple flower collecting umbrella is made from green shed net which can be fixed to Mahua tree to collect flowers. Umbrella is given for field trial to BAIF – Jawhar on 16<sup>th</sup> April.
- Five Bal hirda cutter were delivered to MPCCT.
- Fab Academy course is progressing well.



**Mahua flower collecting umbrella**

Students are attending the video conferencing session from JPNC.

- Yogesh gave presentation in 'Make in India' brain storming session on manufacturing sector organized by TIFAC (DST) on 17<sup>th</sup> April at New Delhi.
- Yogesh also visited CTD, New Delhi on 18<sup>th</sup> April to discuss various core support projects by them.
- We have setup an action group to make a prosthetic hand using 3D printer and arduino with the help of volunteers in Pune and under guidance of Mr.Ashok Mathur.



Yogesh visited DBRT students home in CG on 28<sup>th</sup> April

- Mr.Spencer Chamberlain, volunteer from UK who did internship with Vigyan Ashram in 2013 re-visited VA on 23<sup>rd</sup> April. His project was on designing affordable transport for farmers. He met all people he interacted during his project for evolving the idea further. We are exploring possibility to manufacture designs made by him as a project for engineering students.

- Yogesh Kulkarni's article is published in 'Work and Education'

special issue of Azim Premji University's magazine Learning Curve.

<http://azimpremjiuniversity.edu.in/SitePages/resources-learning-curve.aspx> similarly article on vocational education is published in 'Shikshan Vedha' magazine.

- We have participated in Sankalp 2015 at New Delhi. We have put up our stall with LED project and other initiatives on 8<sup>th</sup> /9<sup>th</sup> April.

#### H] Other tit-bits-

- Vigyan ashram Management Committee meeting was held 10<sup>th</sup> April 2015 at JP Naik Centre of Education, Pune. Committee members gave approval to new projects and decisions were taken on various project implementation and administrative issues.
- We have submitted proposal to Asha standford innovation contest.
- Yogesh visited to Jashpur area of Chhattisgarh state. He met district administration and discussed scope for implementing IBT & other technology based skill training in Jashpur area.
- FCRA renewal form F-5 of IIE was submitted to Ministry of home affairs.
- 4 Student interns from Dapoli Engineering College completed their 4 month in-plant training projects. The project output and other details are available on [www.vigyanashram.worldpress.com](http://www.vigyanashram.worldpress.com)
- Mr. Ravindra Ghule joined VA team as –Agricultural section instructor. He is diploma holder in agriculture with 1 year experience in water shed development.
- Weather record – rainfall of the month -0 mm ,Max temp-38 C, Min Temp –25° C , Humidity –NA, Water height in well – 6.39 M .
- Energy consumption record- Electricity unit – III Phase -856, I Phase -572, Electricity Quality- .
- Diesel consumption for generator- 0 lit, Two wheeler – 790 Km.
- Biogas consumption – Dung used- 898 Kg, Gas produced- 4 Sq M
- Total visitors to VA campus – 537

Data Report Link- <https://drive.google.com/file/d/0B3-4RfsZ2K2OQ05BdTljOU5vZXc/view>

(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, Eton Technologies and Many Individuals and foundations)

**Photo Gallery:**



Dome construction at Deepgruh



Testing of soil samples



Stall at Sankalp social innovation expo 2015 at New Delhi



DBRT Trip to Shivneri



DBRT project Drip winder being delivered to customer in khairnagar



New project ideas for IBT : Stand for drying cloths