

Vigyan Ashram Status Report

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A] Graduation of DBRT Batch 2014-15

DBRT 2014-15 batch graduated on 25th June. Total 29 students successfully completed their course and remaining 10 students will continue for next 3 months. All passed out students placed for apprenticeship training in various field (Engineering- 8, Agriculture -5, Agriculture marketing - 2 , Electrical -4 , Automobile – 2 , Food processing – 2, IBT instructor- 2) whereas 5 students preferred to go for higher education. All successful candidate got certificate at the hands of Amma.

Best Student Awards 2014-15:

- Mr.Prashant Chanule got 'Student of the Year' award
- Mr.Golu Kewat won 'Best Community service award', he earned Rs.17677 by providing community services.
- Best DBRT project award was given to Mr.Prakash Naik for his project 'To suggest appropriate mix of various fuels for kitchen to reduce overall cost of fuel'.
- Best campus contribution award was given to workshop team for fabricating 'Dining tables in kitchen'.



Total combined value of community service earned by DBRT batch 2014-15 was Rs.1,24,260/-. We have created profile of all students and they are available on www.vigyanashramalumni.wordpress.com We are thankful to Asha for Education, Members of Soham Ganesh Kusum Samuh Mr.Darshan wadhava, Mr.Sameer Jog, Mr.Ashish Alase, Hemant & Jayashri Parkhi, TATA Motors foundation, Mr.Daniel and Elisabeth Erasmus and many other individual donors for supporting DBRT project by providing scholarship to deserving students.

Admission process for DBRT batch 2015-16 is in progress. It will start from 10th July 2015.

B] IBT Instructor training program

IBT instructors training program was conducted in two batches i.e from 9th -13th June & 16th-20th June. Total 131 instructors from 70 Schools from various parts of Maharashtra participated in the training. This training program was mainly focused on introducing new appropriate technologies for IBT projects.

It also introduced them new teaching methodologies expected in new NSQF approved curriculum. To adopt “Design Thinking Teaching” approach while conducting IBT practicals.

Plan to improve community services, developing entrepreneurship among instructors, proper records keeping by Blog writing and use of social media etc were also discussed during the training.



C] IBT Program in Odisha

We are starting IBT program in 12 schools in Koraput, Rayagada, Gajapati, Nabarangpur and Malakangiri district of Odisha. Six of them are Ekal Model Residential School (EMRS). The program is supported by IPE Global Pvt Ltd and SC&ST Dept of Govt of Odisha. Rajashekhar visited all schools between 23rd – 28th June and carried out assessment of infrastructural availability and selection of instructors.

D] Design Innovation Centre (DIC) at Vigyan Ashram

Vice-chancellor of ‘Savitribai Phule Pune University’, Dr. Vasudev Gade visited Pabal on 23rd June. Pune University is starting a DIC. It is decided that VA will be spoke center for university and will run courses on watershed management, computerized design, Sensor technology and Plant growth and micronutrients. Objective of the visit was to understand VA’s work and decide on implementation strategy of ‘Design Innovation centre (DIC)’ project. Hon. Vice Chancellor was accompanied by senior professors Dr. V.B. Gaikwad , Dr. Dilip. Dhavale, Dr. Kulkarni , Mrs. Vidya Gargote and Mr. Dadabhau Shivkar of Pune University. A follow up meet was held on 30th of June at Pune University to prepare action plan of DIC project.



E] DST core support project-

Following are important updates on technology development work during June 2015.



- Trials conducted on drying of traditional Papad कुरडई using low cost terrace dryer model. Drying time and colour of कुरडई is found to be better.

- One unit of Rice de-husking machine delivered to Lokapanchayat organization (Sangamner Dist.A'nagar). Lokapanchayat is producing brown rice approx..2 ton/Year. This machine will help to increase production and with better quality.

- Hand operated Rope-washer pump was successfully tested for pumping water from Open well. It can pump water from depth of 25-30 Ft with flow of 50 to 60 LPM. Pump can be easily operated by hand.

The trial run video is available on - https://www.youtube.com/watch?v=ENXJBjAt-So&index=1&list=PLMwF5XmZp_ahhVXoFF3c_nAw8J-6gKwu8

- Suhas completed his fab-academy project work on developing auto-irrigation system for vertical garden system. He has built a soil moisture sensor based system for automatically switching on irrigation pump. Details of system are available on-

<http://fabacademy.org/archives/2015/as/students/labade.suhas/Project/project.html>

- University Students Project work –

- Mr.Siddhesh Kadam, student of SPJMRI, college (Mumbai) conducted a baseline survey (study) for our recent technology development. He conducted need assessment for Rice De-husking and Low cost terrace dryer. This survey was conducted through direct and online interviews of beneficiaries as primary users (SHG, Farmers, and youth) and secondary users (Social institutes, KVK and research centre) with pre-set questionnaires.



Key finding of the study were as follows -

- a) For Rice De-husking technology, primary beneficiaries will be rural youth (entrepreneurs) and SHG's supported by foundations / social organization.
- b) For de-husking of raw paddy almost 95 % beneficiaries preferred motorized version Vs hand operated model.
- c) Beneficiaries (56%) are ready to spend RS.20000 for this, provided initial marketing support.
- d) For low cost-terrace dryer , it's found that there is no strong market requirement for dried onion leaves (considered as primary raw material in survey) but it can be effectively used for traditionally terrace dried products like Papad, green chilli, leafy vegetables etc.

- Two student from College of Agricultural Engineering (B-tech), Dapoli and 6 students from Modern college of Art, Science & Commerce, Pune completed their summer training with VA.

- Vinay Ramki (India fellow) completed his tenure on 29th June. He worked with DBRT students and helped in building students personal portfolios and documenting their academic project.

F] Entrepreneurship Accelerator project

- Rajesh Padavi (Praj fellow) completed construction and shed fabrication work for his bakery unit at his native place @ Narmadanager. We have provided him, bridge loan support of Rs.39000 out of total investment of Rs.70000 for this venture. Our advisor Mr.Arun Dixit visited his bakery unit from 5th – 7th June to guide him. Rajesh is expected to start production by end of July.
- Mrs.Vandana Pandit :IBT instructor from Shirval School purchased equipment to start her snack unit. She has got micro-finance support from Rang-De. Her enterprise will be started from July.
- Selection process started for new batch of entrepreneurship fellows. We are planning to offer fellowship 7 trainee entrepreneurs.
- Mr.Michael Francis resigned from ashram due to personal reasons. We have given advertisement for appointment of Manager for Entrepreneurship cell.



DBRT Update

- DBRT workshop students fabricated new dining tables with folding chairs for kitchen. They fabricated 7 tables with sitting capacity of 56. Total value of these tables is approximately Rs.1,50,000/-
- Mrs.Salley Coyle from Shopbot- USA visited Vigyan ashram and DIY campus on 07th 8th June. Shopbot is CNC wood crafting machine of approx. \$20000 and we have a dream to purchase it.
- Order is placed to purchase laser cutter machine. This machine will be used for cutting various materials like acrylic sheets, leather, glass, wood sheet etc with 4*3 Ft cutting bed size.
- Mrs.Pooja Bade (Self Employment cell, MITCON Pune) visited campus to know more about VA work and meet VA alumni. MITCON wishes to support commercialization of various innovative technologies under 'Support for Entrepreneurial and Management development of SME's through Incubator' programme supported by Ministry of Micro, Small & Medium Enterprise.
- New goat (male buck) is purchased for insemination service. This goat is @ 11 month old (43 Kg) & will be mainly used for breeding purpose.
- Cow milk yield record- Income – 798.4 Lit milk + 1608 Kg dung (Gross Income Rs. 18453.00), Expenses – Rs.16322.00



- A vegetable plot (Size :2400 sq.ft) is made by using JCB (earth mover) near kitchen to use recycled kitchen water.

Other tit-bits -

- Staff Picnic : All staff members with their families went for picnic on 28th & 29th June. It was pleasure trip to relax after hard work of academic year of 2014-15. They visited famous tourist places near Pune viz. Satya-Saibaba temple (Hadashi), Lavasa smart city, Baneshwar temple, Jejuri temple etc. We also visited INORA India Pvt Ltd (Know how foundation-Pune) campus to learn their work on bio-fertilizer & vemi-compost preparation.



VA team at Dr.Chitra Naik Memorial at Khed-Shivapur

- Maharashtra State Rural Livelihood Mission CEO Mrs.Leena Bansode visited VA on 5th June. Yogesh gave a talk on rural livelihood opportunities at training program for MSRLM fellows at Girivan, Pune on 30th June.
- Weather record – rainfall of the month - mm ,Max temp-29°C , Min Temp –23 °C , Humidity –75 % , Water height in well – 5.27 M
- Energy consumption record- Electricity unit – Three Phase -795 KWH, Single Phase – 320 KWH ,
- Quality of electricity : No. Of interruption - 159, Short interruptions: 100.
No supply – 15.38% , Normal Voltage – 83.94% , Low Voltage – 0.09% , High Voltage- 0.59%
- Diesel consumption for generator- 0 Lit , Two wheeler running- 552 Km.
- Biogas consumption – Dung used- 1115 Kg, Gas produced- 1268 Ft³.
- We are thankful to Mrs.Vidya Kasargod for their donors to ashram.
- Pabal campus visitor- 380, Online visitors – www.learningwhiledoing.in – 1085 (New- 1009 , Old- 76) , www.vigyanashram.com – 2510 (New-2022 , Old-488) , www.dsttara.org – 611 (New- 470 , Old-141) , www.vigyanashram.wordpress.com - 2192.

Data Report Link-

<https://drive.google.com/file/d/0B3-4RfsZ2K2OTGpDWkJXVUhWX1k/view>

(Work of Vigyan ashram is also supported by Asha for Education, INDUSIA, 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:



Testing washer pump on VA open well



DBRT exam



With Shopbot - Sally



New addition to VA family !



IBT Training



IBT Trainees with DBRT students