

# Vigyan Ashram Status Report

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- DBRT batch 2012-13 started on 10<sup>th</sup> July
  - 'Learning through research' conference at Paris
  - 30<sup>th</sup> July open house exhibition at Pabal
  - Workshop for development of 'Open Educational Resources (OER)'
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### **DBRT 2012-13 (Supported by Asha for Education & Tech Mahindra Foundation)**

i) Diploma in Basic Rural Technology (DBRT) started on 10th July with 46 students. We have only one girl students in this batch. We have students from Pench, Aurangabad, Ahmed Nagar, Kolhapur, and Mumbai beside Pune district. We have 2 students from Chhattisgarh, 1 from MP and 1 from UP. Seven Students got loan scholarship.

ii) A meeting of DBRT team was held on 6th July. A review of last year's activities was taken. Planning & responsibilities are allocated for projects, meditation, Monday story etc.



iii) We have prepared 15 new beds in the workshop for hostels and also repaired old bed. Painting of hostel rooms was done between 26th June – 9th July.

We are thankful to Asha for Education, Tech Mahindra foundation, Daimond Meghaji and all individual sponsors for supporting DBRT batch 2011-12.

### **'Learning through research' conference**

Yogesh attended 'Learning through research' workshop organized by 'Center for Research and Interdisciplinary' at Paris Descartes University from 13th – 15th July. Objective of the workshop was to to share ideas and create a close group to work together to innovate on research, learning and education.

Yogesh were invited to give a talk on Vigyan Ashram's approach on 'Learning while doing'. Details are available on [www.nightscience.org](http://www.nightscience.org)





### 30th July : Open House Exhibition

Vigyan Ashram observed ninth anniversary of its founder Dr.Kalbag on 30<sup>th</sup> July. Our alumnus of 2003 batch Mr.Vishven Soneji (Gujarat) was felicitated with 'Yuva Udyojak' [Young entrepreneur award] at the hand of our alumni entrepreneur Mr.Jyaneshwar Khaire. Visheven is doing agriculture and also manufactures LED lights in his village in Gujarat. Mr.Khaire has his construction business in Pune.

Open house exhibition of all our projects and achievements was organized on the occasion. More than 4000 visitors including schools & college students, our alumni, villagers, farmer clubs, politicians and

panchayat members visited the exhibition. The program was live video streamed on <http://www.ustream.tv/channel/vapabal> and 5 visitors visited us online.

Representative of our various partner organization and well wishers visited Vigyan ashram on the occasion. Chairman of board of trustees of IIE Dr.Behar, Member secretary Mr.Marathe, Dr.Arvind Gupta, Dr.Denzil Saldhana, Mr.Narayan Desai and Vigyan Ashram management council member Mr.Ashok Kalbag, MR.Vijay Kumar, M.Sunil Kulkarni and others visited VA.

### Introduction to Basic Technology (IBT) – PLAN100 update

(Supported by Suzlon foundation, Hemendra Kothari Foundation, Lend-a-hand-India)

- 1) IBT coordinator training program for school appearing for SSC board examination for first time in 2012-13 was organised from 5<sup>th</sup> to 7<sup>th</sup> July at Pabal. Total 7 co-ordinator participated in the training.
- 2) Omkar visited IBT schools in Pench and Tadoba from 14<sup>th</sup> – 18<sup>th</sup> July. A meeting of school principals of four schools in Pench was held on 16<sup>th</sup> July at Patharai high school. Implementation plan for IBT in 2012-13 was discussed with school principals.
- 3) It is decided to review reporting format for IBT and make it more simple and easy to fill and understand. A draft is made and send to school for trial testing.
- 4) Meeting at SSC board for 9<sup>th</sup> and 10<sup>th</sup> std book development on 9<sup>th</sup>, 10<sup>th</sup>, 26<sup>th</sup> – 27<sup>th</sup> July.
- 5) Omkar visited Bijapur and Dantewada district on 30<sup>th</sup> – 31<sup>st</sup> July. He met CEO of both district and done follow up on the proposal of IBT implementation in both the district. Omkar also visited Unicef – Raipur office.

### IBT schools highlights:

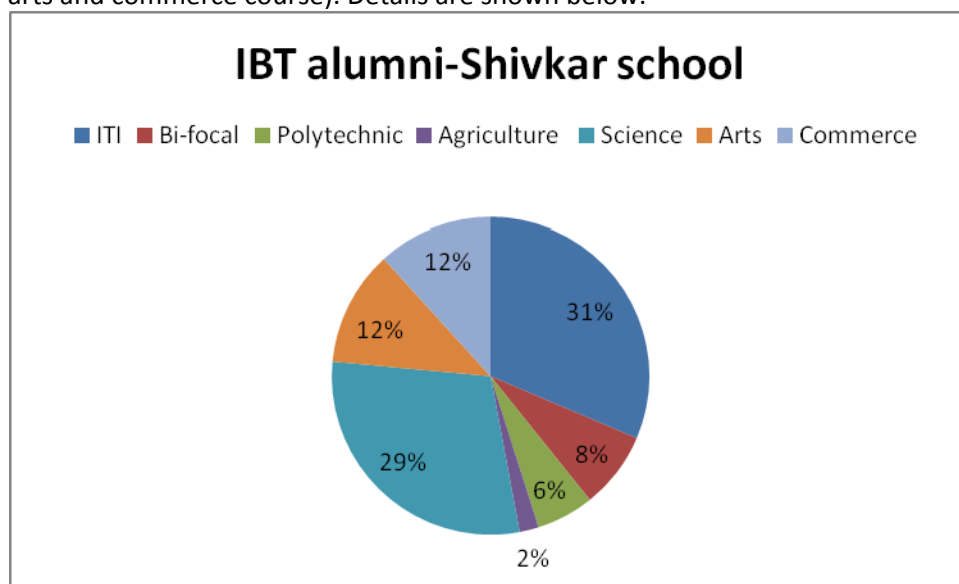
With new academic year, IBT days started in all IBT schools. Following are few examples of activities on the ground. We will try to include report from different schools every month.

School	Important work
1) Kalamb (Yawatmal)	Got order to make 100 tree guards from Babulgaon school.
2) Jamgaon (A.Nagar), Kharshing & Valsang (Sangli), Thangaon (Nasik)	Completed installation of IBT tools. Thangaon school also prepare land for agriculture activity by procuring 7 trolley of soil from outside.
3) Nijampur school	Done installation of 10 fans donated by SBI bank.

	Made one कोठी स्टॅण्ड
4) Moharli (Chandrapur) Patharai (Pench) Devalapar (Pench)	Plantation of पालक , मेथी vegetables Plantation of वांगी, मिरची, झेंडू Plantation of वांगी, मिरची, दोडका, कार्ली
5) Tandulwadi (Satara)	Tandulwadi school got Lathe machine from Satara industries association. It was inaugurated on 12 <sup>th</sup> July. VA team helped school in installation of lathe and its training.
6) Walaval (Sindhudurg)	Considering need of the villager, IBT workshop started giving service of sharpening agricultural tools such as weeding sickle, axe for farmers. They have put up a small flex board advertising facility available with rates per items. They are getting very good response from villagers.

### IBT Effect:

Shivkar (Panvel)school - Follow up with 51 IBT SSC pass-outs in June 2012, shows substantial increase in students going for technical and vocational courses (39 for technical and 12 students opting for conventional arts and commerce course). Details are shown below.



Stream	Students
ITI	16
Bi-focal	4
Polytechnic	3
Agriculture	1
Science	15
Arts	6
Commerce	6

### INDUSA-PTI

- 1) Aparna Chiplunkar Worked on the topic of Study of Soil and Climate , Plant nutrients, manures and fertilizers and Soil Testing (Presentation)
- 2) Translation of IBT books to Hindi is started. We will make these books available in PDF files on INDUSAPTI website – [www.learningwhiledoing.com](http://www.learningwhiledoing.com). Expected completion date is Sept, 2012.
- 3) [www.learningwhiledoing.in](http://www.learningwhiledoing.in) was down for few days to bandwidth limitation. We have selected new plan with unlimited usage bandwidth for a year. It is also decided to host all websites of Vigyan ashram on one web server. We have purchased unlimited web space on HostGator.in for 5 domain names. We will soon shift all our website on new server. Similarly, work of redesigning and redevelopment of [www.vigyanashram.com](http://www.vigyanashram.com) is in progress with Shardia Systems.

### 4) Open Education Resources (OER) workshop

In line with the mission of INDUSAPTI, we are developing OER for 'Rural Technology' course with NIOS. Idea is to make the content of rural technology available online. The material will be written for use by a self learner. A team of 25 IBT co-coordinators and rural technology practitioners is made. First workshop to develop OER

was organized on 1st – 3rd July at MIT, Pune. Experts from HBCSE – Mumbai, SNTD, NIOS and Vigyan Ashram conducted the session. All participants selected one topic each to develop OER. There are two more workshop are planned in coming months. We expect team will develop 75 OER by the end of series of three workshops. The work in progress of OER will be available on the website:

[http://oer.nios.ac.in/wiki/index.php/Main\\_Page](http://oer.nios.ac.in/wiki/index.php/Main_Page) It will also be available on [www.learningwhiledoing.in](http://www.learningwhiledoing.in) on completion.

## 6] DST Core Support Projects:

### A) Oleoresin Project-

Super Critical Extraction Unit Modifications-

- 3 more reactors installed on the unit to increase capacity of the plant. Initial trial with pressure water and liquid CO<sub>2</sub> was conducted.

Dryer –

- Dryer shifted to main workshop, and minor repair and painting work completed.
- We have dried cauliflower leaves (40 kg) in the dryer against trial order from agri marketing firm M/S Nobel 21.

### B) Farmers Club-

- Farmers from Pabal farmer's club is trying to get organic certification from Ecocert Pvt. Ltd, We are helping them in farm practices documentation.
- A meeting between farmers in Pabal and Nobel 21 was held on 31<sup>st</sup> July at ashram for value addition possibilities, marketing etc for guava and other crops. A work was given to Nobel 21 by farmer group to make detailed project report on guava processing up to 15<sup>th</sup> August and then concept note will be submitted to NABARD.



C) Ranajeet Shanbhag and Parshuram Bedkar( DBRT student) attained 2 day's training on fish farming and breeding organised by Shramjivi Santha , Mahad during 17th to 18th July 2012.

### D) Praj Animal Husbandry Project -

Goat shed fabrication work was started this month. Fabrication of rood is completed. Levelling of floor by adding soil from outside has been done and side wall construction work is started.

Due to draught like situation (less rain fall this year so far), we have deferred purchase of goats and cow till fodder situation improves.

### E) Electronics projects status :

Projects for IBT schools →

i) We received requirement from villagers from Kendur to develop LDR based lighting control system. While the technique is quite common, we are able to develop the mechanism quickly in fab lab.

ii) Photovoltaic Solar Powered 5V/6V charger – A circuit for Solar Powered 5V/6V charger is replicated at Fablab. We made total 3 working

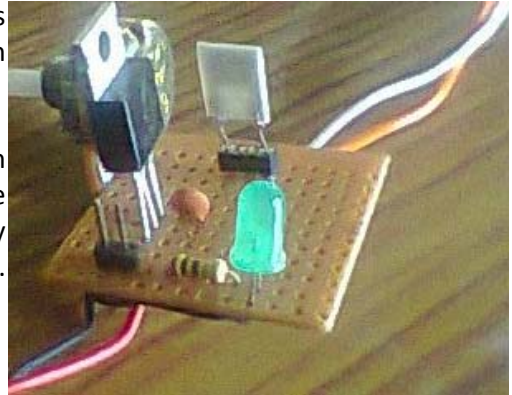




chargers. A completely discharged mobile phone, can be charged up within 5 hours (5V i/p).

iii) A next version of Water Pump Controller and hearing aid is completed in the Fablab. We will soon make the documentation available on website.

ii) Leaf Wetness Duration Sensory System – The project is in progress to develop a disease forecasting gadget. We are successfully implemented the Sensory subsystem that principally provides a varying voltage based on amount of water (dew) sensed.



**For more information on DST core activities.**  
visit <http://vigyanashram.wordpress.com/>

#### **Staff quarter work –**

Staff quarter work is completed up to slab level. Staircase RCC work, fixing of door frames, partisan walls etc are completed in the month of July.

#### **7] DBRT update (Asha for Education supported Project)**

a) Engineers without border (EWB) volunteer Ms Emma Crichton and Ms Jennifer from UK joined VA from 20<sup>th</sup> July. They will work on development of Open education resources with DBRT team for next three months.

b) Toilet construction: DBRT students completed plumbing and sanitation work of toilet constructed by last batch of DBRT students. We also collected photos and videos for plumbing OER. Completion of toilet completed construction of GKN finishing school building.

c) Food Lab: Food lab sold products of Rs.11, 430/- from their practical's. Important activities of food lab in this month's was :-

कौठाची जेली – 13 Kg, Tamarind pulp – 40kg, खजूर साँस – 7kg, Lemon pickle – 30kg, Chikki(Regular)- 7 kg, Chikki (Low fat)- 7kg.

d) Animal husbandry dept sold two male calf and 3 goat kids. Harvested 27kg fish and sold for Rs.625/- from farm tank. Also started poultry batch with 100 chicks.



#### **9] Other Tit-bits**

i) Yogesh participated as a speaker in panel discussion on “Getting Started: A Startup Guide for Social Enterprises” held on July 28, 2012 at Karve Institute of Social Service organized by Net Impact, Pune. Discussion is available on : <http://www.youtube.com/watch?v=-MRK6LR1z0c>

**ii) Environment :**

Rainfall of the month: 60mm, total rainfall of the year: 96.2mm

Water level in the well: 0.4 meter

Min Temp – 23 degree, Max temp – 29 degree

Humidity – 85.83

**ii) Energy consumption:**

Diesel: 31 lits, Electricity (MSEB): 455 units, Biogas consumption – 19 cubic meters

iii) Scrap accumulated was sold for Rs.24616/-.

**Data Report-** All section wise data report are available on Google pages:

<https://docs.google.com/spreadsheet/ccc?key=0An-4RfsZ2K2OdGVxUEd4US1QeWw3UEhuUDUzQUV3U1E>

**Photo Gallery:**



Thangaon IBT - कृतीशील तोच खरा पंडीत



Staff Quarter status



Bhargav receiving 'Yuva Udyojak award 2012' from Mr.Khaire

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