

# Vigyan Ashram Status Report

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## In this issue

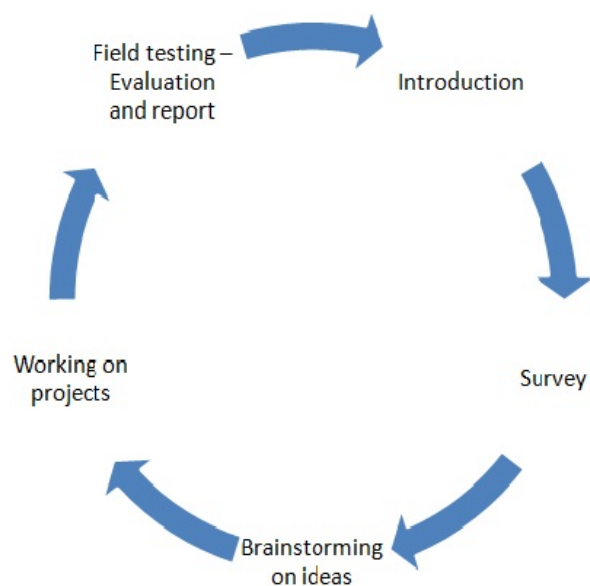
- Instructors training program on design thinking
- New Project sanctioned : IBT Model school , DST 2<sup>nd</sup> Phase core support
- We are humbled by the support from Readers of Daily 'Loksatta'
- Kitchen slab completed and progress on technologies development.

### A] Instructors Training Program on Design thinking

We are experimenting for last one year on the process to integrate academic education with skill training activity. Several experiments were conducted in various schools using OERs (Open Education Resources). As a next step towards implementation of our learning in IBT schools, a training program for selected instructors & school teachers was held at JPNC on 17<sup>th</sup> and 18<sup>th</sup> Oct. VA team along with Chris and Emma of EWB has developed a procedure of 'Seven steps' for conducting DBRT/IBT activity in schools. Objective of this methodology is introducing research methodology effectively in DBRT/IBT program.

Total 29 instructors participated in the workshop. We have made sample lesson plan on various practical's during the workshop. Our plan is to conduct IBT practicals in all these selected schools in next semester.

Learning resources for DBRT/IBT classes is available on : [www.learningwhiledoing.in](http://www.learningwhiledoing.in)



## **B] Content Review Meeting**

We have organized a meeting of various educational experts at JPNC,Pune on 4<sup>th</sup> Oct. Chris and



Emma presented various experiments done by us in different schools. We took feedback of experts for finalizing 'Design Thinking' methodology for DBRT-IBT program. Suggestions received in the meeting were incorporated in 'Design Thinking workshop' for instructors. Notable among those present were Dr.Takwale, Mr.Uday Pachpore, Dr.Arun Dixit, Mr.Bhupendra Mujumdar, Ms Anjali Chikalpatti and VA resource team.

## **C] IBT Model School Project**

IBT program is spreading rapidly. Now it has become a part of core curriculum and Govt is planning to introduce in several schools. Many organizations are adopting the program and started implementing it independently. We have achieved following things in the IBT journey from 1987 :

- i) Developed IBT curriculum , its implementation guidelines
- ii) Proved effectiveness of IBT program in different geographical region and states.
- iii) Developed Training modules for instructors.
- iv) Demonstrated replicability of IBT program
- v) Got Govt. recognition and now IBT become part of core curriculum

IBT program is now scaling up with the support of Govt. and different NGOs. Therefore Vigyan Ashram has decided to focus on improving quality and implementation strategies of IBT program. Vigyan Ashram will focus on 25 IBT schools to make them Model IBT schools. These will become demonstration centers for others. We have submitted proposal to M/S Praj Foundation to provide financial support for Model School project. They have communicated their sanction to the project.

We are now surveying all our schools and selecting 25 schools. VA will focus on these 25 schools and work on improving delivery of the program, management practices in the schools and developing content.

VA will continue to provide training, technical support and content for all IBT schools and other agencies.

## **D] Kitchen Slab completed**

Kitchen slab was over on 6<sup>th</sup> Oct. It is approx.2500 sq.ft (37 ft\*67ft). It took 7.5hrs & 298 bags cement, 50lits waterproof solution to complete the slab. We are now evaluating different plastering and windows option.



### **E] Support from Readers of Loksatta**

Daily 'Loksatta' published article on work of Vigyan Ashram on 4<sup>th</sup> Sept in the series 'Sarvada Sarva Karyeshu'. They appealed readers for support for upgrading VA's infrastructure. In response to that 385 + readers donated to VA. Cheques from the readers were collected by Loksatta and handed over to us in a function held in Mumbai. Total amount of donation is approx.17 lacs. When we started the renovation of kitchen we had support from Dr.Kishan Bhatia of Rs.12 lacs and total cost of the project was going about Rs.25lacs. We started the work with little fear of funds in mind. But we are humbled by the response from the society and their encouragement and support. We hope to complete the work of kitchen soon.

### **F] Technology Development**

i) Sanitary Napkin Incinerator: Pradnya is working on making Sanitary napkin disposal box for domestic/household use. She studied big incinerator installed at Pune university hostels. We also took several trials by using different techniques. We are working on perfecting the prototype.

ii) Representatives of M/S Skillsveri Training Solutins Pvt Ltd. gave demonstration of AURA weldingsimulator at Pabal on 10th Nov.

iii) DST conveyed their sanctioned for 2<sup>nd</sup> Phase of core support proposal.

iv) Yogesh attended Orientation Cum Training Programme of DST supported agencies as an Expert. The program was organized by ARTI at Phaltan on 17<sup>th</sup> Oct.

v) Yogesh and Ranjeet reviewed the content of V1 book for IX std. Yogesh attended pre-vocational book review meeting at Nagpur on 1<sup>st</sup> Oct.



**Sanitary napkin Incinerator**

vi) Technical Project review Committee (PRC) meeting was held on 13<sup>th</sup> October at JPNC. We have done screening of the ideas based on their potential and priorities. Meeting was attended by Mr.Ashok Kalbag, Mr.Vinayak Kelkar, Dr.Arun Dixit and VA team.

vii) Composite material : We are trying to use waste thermocol balls into ferrocement sheet. Purpose is to reduce the weight of the sheets. Further recycling of Thermocol is becoming a problem and we are experimenting with different uses of it. We have prepared 4 sheets and tested them under load. Test data is as follows :

	Size	6'x2'x2"	6'x2'x2"	6'x2'x2"	6'x2'x2"
Sr.no	Material used	Trial 1 (Cement sheet + Thermocol bubbles)	Trial 2 (Cement + Thermocol +Sand)	Trial-3 (Cement +Thermocol+Sand+ Plastic thread + MS flat)	Trial-4 (Cement+Thermocol+ MS Flat)
1	Cement	11kg	34.674kg	45.34kg	36.74kg
2	Tharmocoal Bubbles	150gm	396gm	1.2kg	1.135kg
3	water	6.5ltr	16ltr	22ltr	20ltr
4	Sand		32kg		
5	Plastic bag threads			120gm	
6	MS flat			2.1kg	1.63kg
	Cost	143.5	449.09	918	804
	Cost / Sq ft	12	37	77	67
6	Breaking Strength	5kg	14kg	164kg	99kg
	Remark			Best suited	



viii) New Orders :

Egg incubator :100 eggs - 1 no, Roll Slicer – 1 machine installed at Shree food products, Lonavala. Two orders on hand in manufacturing.

ix) We are assisting Fab Foundation and IITB to start a Fab Lab at IITB. We have submitted tender document to IITB for establishing a Fab Lab on 6<sup>th</sup> Nov on behalf of Fab Foundation. Sachin Puneekar visited IITB for tender opening process.

### G) Entrepreneurship Accelerator

- i) Michael visited Rajesh's home in Nandurbar district from 27<sup>th</sup> – 30<sup>th</sup> Oct. Objective of the visit was to do the market assessment and project feasibility for Rajesh's bakery business.
- ii) An agreement is finalized with RangDe, microfinance venture to provide finance to our alumni.
- iii) Santosh participated in the dome construction training.
- iv) SOW trainings : Pondewadi village, dairy farming training (in collaboration with SST, Shirur)  
- So far 6 participants (out of 10) have successfully cultivated Azolla and started using it on regular basis. One of them also started selling culture to other farmers.



**Micheal, Rajesh on bike to do market survey**

### H] DBRT Update

- i) First section of 2014-15 batches was completed on 7<sup>th</sup> Oct. Examination was conducted on 9<sup>th</sup> & 10<sup>th</sup> Oct.
- ii) Five DBRT Students (Vishajit Kadam , Sagar Paithanpagare, Santosh Warti ,Hrushabh Solanki, Akshay Govarikar) and 3 short term students (from Raipur - YogeshvarKumar Bondhiram , Vivek Warma , Vishal Sahu, Devendra Bade) completed their courses on 10<sup>th</sup> October.
- iii) One day introduction camp of 20 students from Dantewada was conducted on 19<sup>th</sup> October.
- iv) Animal Husbandry : Poultry : Sold 381 birds and have a profit of Rs.13,046/- , Goat farm loss is Rs.1983/-. Dairy loss is Rs.1597/-
- v) Agri : Sow 35kg jawar in the field.
- vi) Workshop students: Completed order to paint three dome kitd. They are also working on fabrication of door and windows for kitchen.
- vii) Electrical students carried out wiring of 70 electric points in Mr.Amit Warghade's Jim in Pabal village.



**Dispatch of poultry birds**

viii) Students celebrated Kojagiri on 7<sup>th</sup> Oct.

### M] D-I-Y Lab

i) Idea Session was run with 54 students of Dr. Babasaheb Ambedkar School on 13<sup>th</sup> Oct. They have worked on those ideas on 17<sup>th</sup> and 18<sup>th</sup> Oct and made various projects using scrap



ii) Regular session : There are 30 students from city International and 07 students from Gurukul are attending D-I-Y session every week.

iii) DIY Lab students Ashish and Siddarth Prepared there projects for 2nd International science and Mathematic Festival at Visakhapattanam.

### N] Other tit-bit –

- i) Suhas installed N-computing Units at INDUSA Lab.
- ii) Pradnya and Anil visited V.K Edutech on 11<sup>th</sup> Oct to learn about PLC programming.
- iii) Weather record – rainfall of the month - 30 mm ,Max temp- 37<sup>0</sup>C , Min Temp –24<sup>0</sup>C , Humidity – 89% , Water height in well – 6.78 mtr
- iv) Energy consumption record- Electricity unit – Three Phase -709 KWH, Single Phase – 575 KWH, Diesel consumption for generator- 0
- v) Biogas consumption – Dung used- 1555 Kg, Gas produced- 1.5 m3.

### Data Sheets :

[https://docs.google.com/spreadsheets/d/1Gt49gPVWuo\\_hUqqpl0kkwf8nHI8eEfbe677izYtgLrA/edit?usp=sharing\\_eid](https://docs.google.com/spreadsheets/d/1Gt49gPVWuo_hUqqpl0kkwf8nHI8eEfbe677izYtgLrA/edit?usp=sharing_eid)

**Photo Gallery :**



Despatch of Roll slicer



Kojagiri celebration



Bhondala at Ashram : Navaratri celebration



Students administrating treatment to injured goat



Demo of welding simulator



DBRT students working on kitchen slab work