

Vigyan Ashram Status Report

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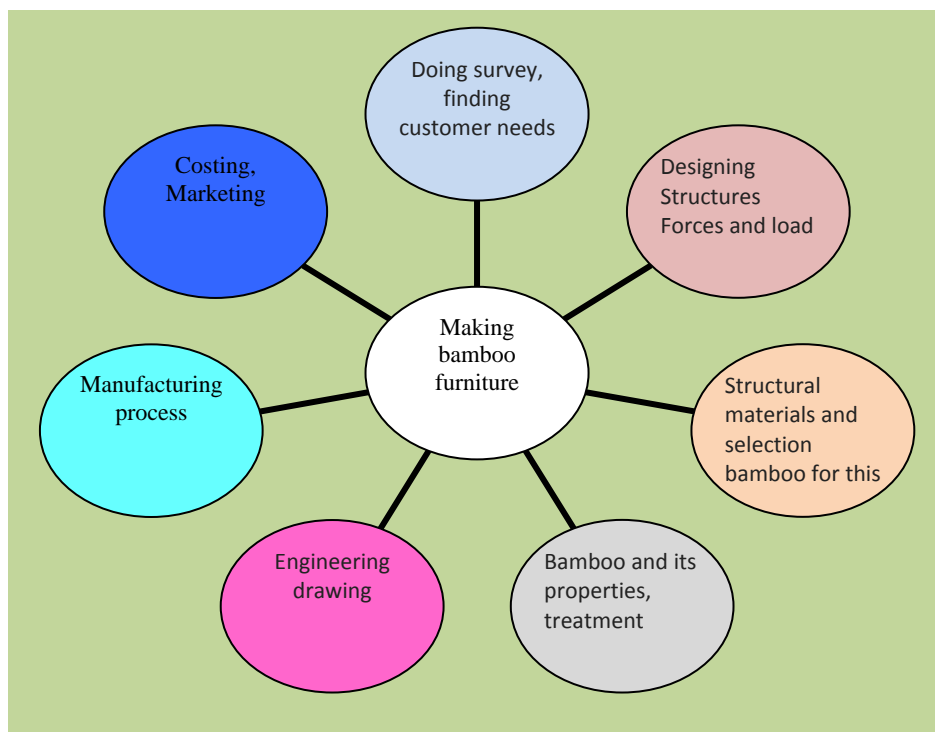
DBRT batch in ACTION

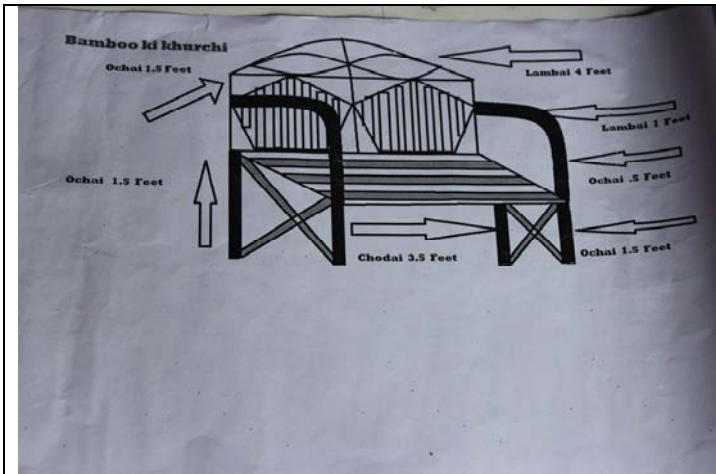
1) Bamboo furniture project : In continuation of our experimentation with 'Work centered education' methodology, bamboo furniture project was undertaken by Engineers without border (EWB) volunteers Ms Emma and Jenny. Assignment given was to make a bamboo chair. While manufacturing of chair different curriculum topics were introduced to students as shown in the fig.

Emma and Jenny made power points on each lesson. All DBRT students were divided into 4 groups. Survey was undertaken in Pabal village to know customer need and preferences. Each group came up with a design of a chair and gave presentation about features

of their bamboo chair. They prepared a small prototype using wooden sticks. Finally we shortlisted two best design for manufacturing. Students made the chairs in the workshop. Chairs were finally put up for display in village bazaar. Students got two more orders from villagers ! The exercise went on for about 15 days.

The process of conducting lesson is getting documented in the form of OER and will be available on INDUSAPTI website.





Design of chair



Prototype of chair



Bamboo chair



Bamboo chair manufacturing



Display of chair in market



Display of bamboo chair in village market

INDUSA-PTI

1) Second workshop to develop **Open Education Resources (OER)** on rural technology was held from 11-13th Aug at SNDT B.Ed college. The workshop was organised by NIOS. VA acted as resource person and IBT co-ordinators from different schools worked on different topics to develop OER. OER developed in the first workshop were submitted to NIOS and draft of second OER was prepared by each participant. About 20



participant participated in the workshop. NIOS will make them available online after quality check and graphic up gradation.

2) Engineers with boarder (EWB) volunteers Emma and Jeeny are working on completing nine units of OER. It includes low cost housing, plumbing, electrical wiring, sanitation, agricultural tools, biogas, solar devices, ferrocement etc.

Introduction to Basic Technology (IBT) – PLAN 100 update

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

1) We were invited to make presentation of IBT program and its concept in a meeting of Chairman and divisional director of 'Rayat shikshan sanstha' on 17th Aug. They wanted to start the program in their schools. Advt.Raosaheb Shinde chaired the meeting. They formed a committee to submit the budget and suitable schools to their management.

2) IBT program is at peak in this month. Hence all team is visiting different school to give them direction and new ideas.

→ Yogesh and vishal visited Nagaj, Walsang, kharshing schools in Sangli district on 9th – 10th Aug. They also visited jalihal school in Jat. This school is run by Yerala project society and they are conducting IBT on self financed basis.

➔ Yogesh and vishal also visited Thangaon and Bargaon pimpri IBT school in Sinnar on 31st Aug.

3) Omkar visited Dantewad and Bijapur dist from 23rd – 27th Aug. A meeting of instructors was held on 26th Aug and all practical difficulties were discussed.

4) Dantewada collector gave sanction order for IBT program in 3 schools and training – monitoring support.

5) Omkar conducted one day 'Work centric education' workshop at Jalna on 30th Aug. 2012. The workshop was organized by 'Gandhi Adhyayan Kendra, Jalna'. 75 high school teachers / HM / sanstha chairman participated in this workshop.

6) Omkar attended meeting in SSC board to 10th std IBT curriculum development and book writing on 9th /10th and 31st Aug.

7) VA team meeting on IBT review and visit planning was held on 15th and 16th Aug at Pabal. Visit plan and thrust activities are decided.

8) Omkar visited HKF project school on 21st – 22nd Aug.



Ganesh Idol Making : Chadwel korde high school

IBT schools highlights:

Following are few examples of activities on the ground. We are trying to include report from different schools every month.

School	Important work
1) Bargaon pimpri	Group of girls made machine to make marking on ground using white dust. 'मैदानावर फ़क्की टाकण्याचे यंत्र'
2) Kumbhawade	Kumbhavade School has painted one of the buildings in their school in summer vacation. They have earned Rs.35000.00 and out of which Rs.7000.00 was pure profit for students. All electrical fittings are done and maintained by students. Very recently they have fixed 5 ceiling fans in the school. School has cultivated 20 guntas of rice by advanced rice cultivation method. The School have poultry and 4 buffalo's in IBT animal husbandry section which is used in their daily meal.
3) Kaledhon	Kaledhon School has planted 1 guntha area with Brinjal / Merry gold plants. One of the school alumni have donated RS.1.00 lakh for IBT programme.
4) Tilali and Shanimandal	On the occasion of 15 th August Independence day, Tillali and Shanimandal schools have conducted blood testing camp. Dor.Latesh Patel from Suzlon foundation guided the student. 33 villagers from Shanimandal and 52 from Tilali tested their blood group by paying Rs.10/- per test.
5) Amkhel school	Amkhel school has manufactured around 22 tree guard. They collected donation of Rs.4400 from villagers. School invited villagers for donation and have put name of donor on respective tree guard.
6) Ashramshala , Sakri	IBT agriculture section in Baba Amte Ashram Shala, Sakri has cultivated 5000 sq ft (5 Gunta's) of red pumpkin for their school kitchen.
7) Dhamari school	200 Acacia seedling plants are received as donation from Dhamari IBT School. They have developed it under Dyanrai project of Praj Foundation.



6] DST Core Support Projects:

A) FAB8 conference

Amitraj represented VA in Fab8 conference held at Massey University's Creative Campus in Wellington, New Zealand from 22nd – 28th Aug. MIT supported travel and lodging boarding cost and we are thankful to them. It gives us opportunity to connect with other labs. Amitraj gave presentation of projects in VA-fab lab. It was good learning experience and will help in improving functioning of our lab at Pabal.

Amitraj and Pawan worked hard to complete projects for demonstration during fab8. We could demonstrate leaf wetness sensor during the conference beside other projects. Pawan joined conference via video conferencing from Pune/Pabal.

B) Oleoresin Project-

1) Development of the unit is in progress. Trials on mint oil extraction was discontinued when observed leakage. It was primarily due top back pressure. A non return valve is being fixed under guidance of Mr.Ghatpande.

2) Dryer –

Ambient temperature dryer is modified by reducing its drying chamber volume by 50%. We were expecting reduction in drying time. Trials on 45 bet root leaves failed to prove this. We realize following modifications are further needed –

- To remove Shed net (green net) used as a base of trays in drying. They are trapping moisture released from product.
- Shed net used for trays is also not capable of holding enough weight of product which leads to bending of tray at centre, so uneven drying occurs as shown in photo.
- Blower fans attached to dryer are not sufficient capacity to maintain flow rate inside dryer.

C) Praj Animal Husbandry Project -

- Goat shed work- Work is in progress. So far fabrication work of internal partition wall, flooring work and side wall work is completed. Target is to finish work by 15th of September.
- Poultry shed work- Site for poultry is finalised after considering different available sites in campus. This site is just behind goat shed on the way down to village. (photo attached).

D] Fodder making machine

We have initiated new project to manufacture fodder making machine. Due to less rainfall, we are facing drought like situation at Pabal. Farm tank is almost dry and situation will become worse during summer. Situation for fodder is worrying. Our friends at SGS wealth creator (Mr.Sunil Kulkarni, Rajubhai Gandhi and Mr.Ghatpande) introduced us to the fodder making machine. The machine is based on the principles of hydroponic and seems to be available in western countries and china. We have decided to initiate the project. The machine intends to give 100kg fodder per day.

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

Staff quarter work (Supported by Mr.Dai Meghaji) –

- First floor slab is completed on 24th Aug. .
- Workshop department has started work of window fabrication.

7] DBRT update (Supported by Asha for Education & Tech Mahindra Foundation)

a) Development in Food lab

→ A recipe of ready to cook **Puran Poli** mix पुरण पोळी मिक्स is made as a students project by Mrs.Sonali Gosavi. Trials are successful. We are testing it for shelf life. It can be good product for SHG and community service.

→ Vegetable drying -: We have done experiment of vegetable drying with almost 116 kg of different vegetables. So far we have developed cauliflower, beetroot, sprouted wheat powders. These powders are now sent for its nutrient analysis. We are expecting good marketing potential with these powders.

→75kg lemon processed for lemon pickle. कौठाची जेली – २० किलो, Chikki – 11kg

→Total value of community service in food lab : Rs.8773/-

b) 15th Aug : Independence day - DBRT students prepared very hard for Independence day celebration. But due to death of union minister Mr.Vilasrao Deshmukh, program was cancelled on 15th Aug. Only flag hosting was done on 15th Aug. On 14th Aug, staff and student did 'Shramdaan – श्रमदान' and prepared 1600 plants in the nursery.



Figure 1 Shramdaan - Nursery work

c) Anand attended 'Management training program' organized by SP Jain Management college , Mumbai from 24th -26thAug. Topics covered are project manegment , costing, Comunication and fund raising, NGO Governance.

d) Asha for education volunteer Mr.Srihari visited ashram on 5th Aug. This is six monthly visit by Asha volunteer. Tech Mahindra volunteer Mr.Vijay and Mr.Sinha visited ashram on 28th Aug.

9] Other Tit-bits

i) Students cultural program was held on 24th Aug. Similarly Dahi handi celebration was done on 10th Aug.

ii) Art of living volunteers conducted introductory session on 16th Ag.

iii) Meeting for honeybee magazine in Marathi was held in Pune on 17th Aug. VA agreed to take up responsibility of Marathi edition of honeybee magazine – it will be named as सुझ बुझ'. First editor team will be Dr.Yogesh Kulkarni, Mr.Chandrakant pathak, Dr.Mandar Akkalkotkar, Dr.Devalankar, Mrs.Chitralkha vaidya, MRs.Manjusha vaidya and Mr.Dilip chavan.

iv) First meeting of School on wheel (SOW) project undertaken by STARs forum was held on 30th Aug at Vayam office in Nasik. Yogesh and Vishal attended the meeting. We are trying with new idea of imparting vocational training to youth willing to start own enterprise. Training will be given on the job on his own unit, while establishing their unit. Project will be piloted in 2 villages in Jawhar. To begin with Solar drying and poultry program will start from Sept.



Meeting with IIE account, IIE CA MR.Kirad, Jt.Member secretary about annual audit of 2011-12 held on 21st Aug at IIE.

v) Yogesh attended meeting on RTE organized by IIE on 7th Aug.

vi) Yogesh visited Ankoli and meet Mr.Arun Deshpande along with Mr.Sunil Kulkarni and Mr.Rajubhai Gandhi on 25th Aug. Visit is to understand concept of Mr.Arun Deshpande's water bank project.

ii) Environment :

Rainfall of the month: 49.66mm, total rainfall of the year: 167.55 2mm

Water level in the well: 3 meter

Min Temp – 21 degree, Max temp – 28 degree

Humidity – 89

ii) Energy consumption:

Diesel: 12lits, Electricity (MSEB): 1116 units, Three phase bill : 868 units

Biogas consumption – 30 cubic meters

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

<https://docs.google.com/open?id=0B3-4RfsZ2K2OZ0hWYkRrQIFwUjA>

Photo Gallery:



IBT project : Bargaon pimpri



फक्की मारण्याचे यंत्र - बारगाव पिंप्री



Students Cultural program at ashram



Independence day celebration



Goat shed flooring



Amkhel School : 22 Tree guard made with the donation from villagers.
