

Vigyan Ashram Status Report

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In this issue

- Fab9 International Conference at Yokohoma, Japan
 - COSMIC project meeting at NUS, Singapore
 - Cleanliness drive in Pabal village
 - Open Education Resources (OER) testing at Pokhari & Shinavane High School
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Fab9 Conference at Yokohoma, Japan

Yogesh attended Fab9 : International conference for Digital fabrication at Yokohama, Japan from 21st – 28th Aug. He presented paper on development of 'Egg incubator' at Vigyan Ashram. Conference was attended by more than 200 delegates. It was good opportunity to learn new tools for digital fabrication and its importance in coming future. It is strongly felt that VA will need Shop Bot (CNC router for digital fabrication) and CNC sewing machines on priority. We need to raise resources for the same. It was fascinating to learn projects by other labs around the world. Present cost of all machines in the Fab Lab is \$ 100,000. This is very high amount for developing country hence a group for developing \$10,000 mini

Fab Lab is formed during the conference. We are thankful to MIT and Fab foundation for sponsoring our travel for the conference.



I Did IT ! Using Fab Lab tools



Ranjeet with COSMIC team @ NUS

Meeting at National University of Singapore (NUS)

Ranjeet attended mid-term review meeting at Centre of Social Media Innovations for Communities (COSMIC) at NUS - Singapore from 13th to 17th August. VA is partner in the MPest project. MPest is a mobile app that provides intelligent pest solutions to help farmers to collectively share and receive knowledge regarding pest conditions in agricultural fields. We are helping COSMIC for giving feedback on the application and field testing.



Cleanliness Drive in Pabal Village

VA staff and students did Shramdaan on 14th Aug in Pabal village. We collected plastic waste from village. Gram Panchayat gave us tractor for collection. Students fabricated special tools for collecting plastic, we got the design from internet. A tractor load of plastic collected from three lanes of village. Sam and Oliva (EWB volunteer) will use this plastic waste and try to develop method to recycle it. They are working with all DBRT students and developing a module for waste management for village. A similar exercise was conducted

with Pabal high school students.

Introduction to basic technology (IBT) – PLAN -100 update -

(Supported by Asha for Education, Unicef, Govt of Chattisgarh, Lend-a-hand-India, Suzlon foundation, Hemendra Kothari Foundation)

IBT school updates –

- 1) Yogesh and vishal visited Shivkar high school on 6th Aug on the invitation of Mr.Nirbhay Jain. Various projects and ideas for further development of IBT program was discussed.
- 2) A proposal to introduce IBT program at VI-VIII is submitted to SCERT on 12th Aug.
- 3) IBT co-ordinators training program was organized at J.P Naik center, Pune on 30th and 31st Aug for schools appearing first time for SSC – IBT exam . Teacher co-ordinator from Nagaj, Nijampur, Kaledhon, Jeur, Khiroda, Benapur, Shanimandal, Jamgaon, Kharshing, Walsang (Total 10 schools) attended the training.
- 4) A group of IBT instructors visited Dr.Yogesh Kulkarni on 18th Aug at Pune office. Various issues related to IBT and future direction etc was discussed.
- 5) Jnan Prabodhini, Harali got recognition for starting IBT program.

HKF supported schools -

- 4) Vishnu Barde is appointed as Field officer for Pench project. Mahesh and Vishnu visited schools in Pench and Tadoba. They also planned various activities for school viz. board for community service, coloring of IBT room, ferro-cement water tank etc. They had purchased material required for next 3 months along with instructor.



Kalamb school made 30 tree guard



Toilet constructed by Mandhwa -IBT students

5) Vishnu conducted survey of all 73 IBT alumni. We are planning opportunity guidance program for them in September.

CG IBT Program -

6) Dantewada District administration has decided to introduce IBT in 17 schools. Laxmi made survey of facilities available in the school and potential instructors. A training program is planned next month. Agriculture activities suffered due to heavy rain.

INDUSA PTI

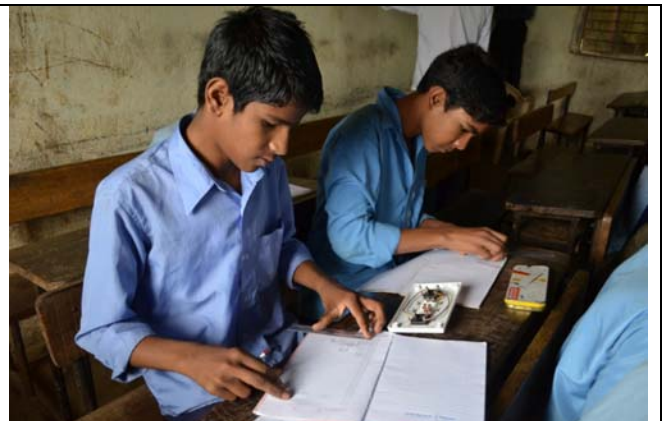
1) Testing of Open Education resources (OER) was done in Pokhari and Shindavane IBT schools. Objective is to test utility of the OER and identify gaps in implementation.



Yogesh met IBT 1987 first batch alumni Mr.Sharad Jadhav in Tokyo. He is working with Oracle. He shared many experience with Dr.Kalbag and IBT

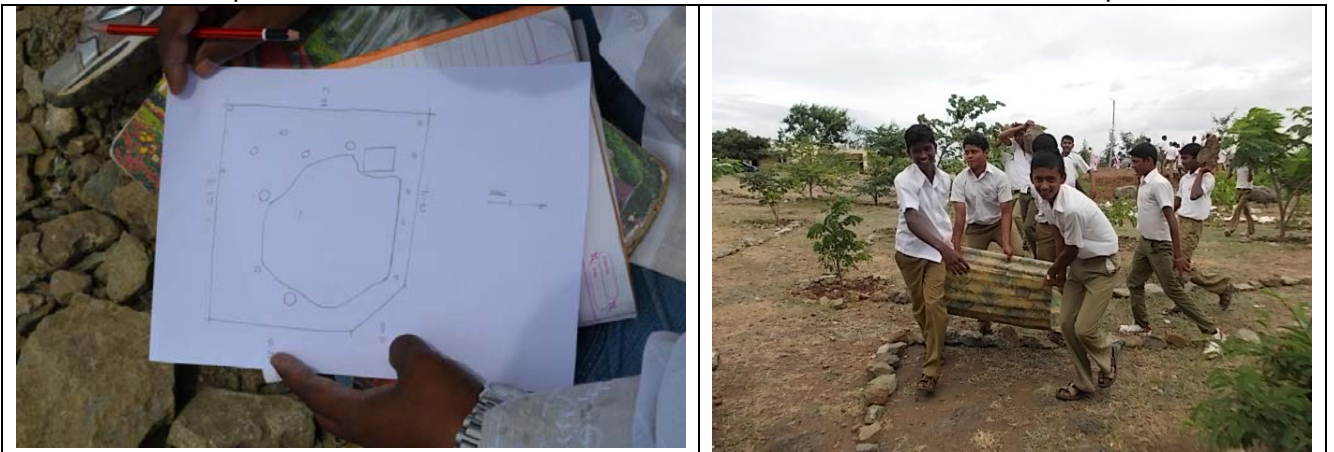
Pokhari school –

An electrical wiring activity using OER was undertaken at pokhari school on 6th and 7th Aug. Total 29 Students undertaken wiring of computer room. Lessons started with history and invention of electricity, electricity and safety instructions. Students selected material for wiring, draw electric circuit diagram, did earthing, completed the wiring of computer room and finally did the costing. They also write essay in Marathi, Hindi and English languages on the topics related to electricity. Group of IBT students completed the task in 2 full days. Science teacher in the school Mr.Mulani conducted lessons on principles and theory of electricity. He used powerpoint, video developed by us effectively and enthusiastic about using it while conducting further practicals.



Shindavane school :

OER on creating social space was undertaken in Shindavane school on 23rd and 24th . Total 90 Students of 9th class created a garden in the school. Lesson started with necessity of garden/social space, seeing photographs of different gardens in the world, making sketch for garden for school, planning activities, actually doing the work, costing and writing essay and experiences. School management even hired a JCB for leveling work and all 450 students in the school joined for doing shramdaan to complete the task. Powerpoint lesson created while making garden in Vigyan Ashram was used and steps were followed. Few on site modifications were done in the lesson plan.



This testing of OER in schools increased our confidence in the methodology of OER.

DST Core support project

1] Egg incubator – Egg incubator of 1000 eggs capacity was delivered to Mr.Vijay Gangurde (Nasik) on 7th Aug. Anil repaired wiring of 2 egg incubator of 30000 eggs capacity of Mr.Dhanjay Sandbhor (Khed) against order.

2] Aquaponics Project – Spinach trial under aquaponics system is in progress. So far we have harvested 48.54 Kg of spinach (30.53 Kg from aquaponics treatment + 18.06 Kg from control treatment). We were facing fish mortality problem due to low dissolved oxygen level in the water. This is found that dissolved oxygen (DO) level is reducing in water due to very heavy algae growth (with increasing sunshine algae growth increases). To reduce algae growth in the fish tank, we covered it with tin sheets.

2000 NO. fish seeds of tilapia breed are purchased from Pen (Mumbai) for farm tank and aquaponics experiment. Tilapia fish survives at lower oxygen level than Rohu/ Carp sp and grows faster in farm



tank /aquaponics environment. Few fish we have kept separately in glass fish tank to compare their growth with aquaponics treatment.

3] Praj foundation supported Animal Husbandry project – DBRT students finished construction of dry fodder storage ramp and started fabrication work in old poultry shed area.

4] DIY Lab activity –

- i) Musical instruments viz. piano, veena, drum, cheepalya were made for Fab9 conference.
- ii) Mr.Chintan vaishnav from MIT visited VA from 6th – 8th Aug to work on MTM snap. It is found that configuration of our PCs is old and we need to upgrade them.
- iii) Students from Prayas learned electrical project.
- iv) Work on mosquito repellent is in progress.
- v) Pradnya worked on laser cutter machine, it is found that motherboard got burnt.
- vi) Documentation of hearing aid, water pump controller is uploaded on website.

5] Development Marketplace Project

- i) Recruitment of area manager for Both Chindwara.
- ii) Ashish and Aniruddha Visited Bhopal and Chindwara. They met various NGOs and Microfinance institute to identify Village Level Entrepreneur (VLE).
- iii) Identified 68 youth and shortlisted 30 VLE's for the first Batch Training to be held at Chindwara.

DBRT (Supported by Asha for Education)

- 1) Students replaced lock of 10 cupboards, fitted rallying to staircase in staff quarters, cupboard in hostels etc. Repair fencing of plantation. Grampanchayat gave 15 cement pole for the same.
- 2) Maharashtra state livelihood forum team visited VA on 21st and 22nd Sept. They visited our alumni, grampanchayat members and Dhamari and shindavane school. Mr.Ashok Kalbag met evaluation team and presented VA program.
- 3) 15th Aug Independence day was celebrated with enthusiasm. Students performed various cultural activities viz. song, dance,



Bench from waste plastic bottles

play etc on the occasion.

'Raksha bandhan' was

celebrated on 20th Sept and ladies from Pabal village, SHGs visited VA to tie Rakhi to DBRT students. Dahihandi was celebrated on 28th Aug. Its all festival season and now students are preparing for Barchhi Dance for Ganesh festival.

- 4) Anand conducted Bamboo dome construction training at Sinhgad Institute of architecture on 26th Aug.
- 5) Profitability of Dairy farm : Gauri cow (Rs.1065/-), Soni cow (Rs.1322/-) , Sharda cow (Rs.60/-), Sonam cow(Rs. 274.6/-). Total Dairy profit in July is Rs 2721.66/- . This does not include labour charges.

Other tit-bit –

- I. Ms.Adwaita and Anita participated in 3 days workshop on NGO management from 21st – 23rd Aug organized by S.P Jain Institute of Management.
- II. Snehalaya students completed their course on computer application in INDUSA CAREs. Pankaj repaired 7 computers.
- III. Skills on Wheel (SOW) project – Nursery training conducted for Chaitanya at Kadus also follow up visit to Vetale for Azolla training .
- IV. Weather record – rainfall of the month - 95.66 mm ,Max temp- 25.77 °C , Min Temp – 16.8°C , Humidity – 88.9% , Water height in well -
- V. Energy consumption record- Electricity unit – Three Phase - 1174 KWH, Single Phase - 911KWH
- VI. Diesel consumption for generator- 1 Lit + 3 Lit (oil). {Generator is repaired this month, charges Rs.600/-}

VII. Biogas consumption – Dung used- 944 Kg, Gas produced- 63.6 M³ ,

VIII. Two wheeler – 329 Km, petrol consumption – 8.4 lit (39km average)

IX. Total visitors to www.vigyanashram.com – 1838 (New visitors- 1283 , repeated visitor- 555)
www.dsttara.in : Total Visitors: - 79 (New: - 55, Old: - 24)

Data Report : Aug 2013 – <https://docs.google.com/document/d/1L9jgQWaTvOWfBNz-7UzsHDgGhV2O19Cb-GIPw7vyQy8/edit?usp=sharing>

Photo Gallery :



Agri plot : DBRT



Selling vegetable in the market



Raksha bandhan in ashram



15th Aug : Independence Day



Workshop Practical



Fabrication of tank against order



Egg incubator installed at Khiroda IBT school



Dahi handi celebration

For Regular update : www.facebook.com/vigyan.ashram.pabal