

# Vigyan Ashram Status Report

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### **Welcome ! DBRT 2013-14 Batch**

Academic year started on 10<sup>th</sup> July and 42 students joined Diploma in Basic Rural Technology (DBRT) 2013-14 course. This year, we have students from 8 different states - Assam, Arunachal Pradesh, Meghalaya, Jharkhand, Andhra Pradesh, Bihar, Kerala and Maharashtra. We have started using new hostel rooms and also installed wood fired water boiler for providing hot water for bath. It was a busy month for teachers to get familiar with new students, their strength and mischief's. They got engaged in various project work and community service tasks. They have completed water proofing work of staff quarter building with total work cost of Rs. 29615.00 (includes Rs.4710/- as student's contract charges).



### **Tribute to Dr.S.S.Kalbag : Open House Exhibition**

Vigyan ashram paid tribute to its founder Dr.Kalbag on his 10<sup>th</sup> anniversary. We kept all our projects , achievements, awards, accounts for public display.

Fresh DBRT students prepared given responsibility to explain past projects and them learned required information in short time. More than 3000 visitors ( including 11 schools, 1653 students, 57 teachers), college students, our alumni, villagers, farmer's club members, local political leaders, our funding partner and corporate representatives visited the exhibition.

On the occasion, we felicitated 2004 batch DBRT alumni Mr.Avinash Gavari with ' Yuva Udyojak' (YOUNG ENTREPRENEUR) award at the hand of our senior alumini Mr.Pandharinath Manmode .

Enterprises which are associated with VA and started by our volunteers (Nobel21 (Vegetable and processed food), BOPEEI (Pedal power and solar lamps), Greeny the great, Pandharinath Kolhe (Leather bag) ) also put up their stall to show case their products. Food lab students made various food products ( Tamarind sauce, chikki, jelly, pooran poli mix, wood apple jelly etc.), they sold product of Rs.7640/-



Open house exhibition



Mr.Avinash Gavari with YUVA UDYOJAK Award 2013.

### 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)

#### 1] IBT Instructor training programme for senior instructors –

IBT senior instructors training programme was conducted from 5<sup>th</sup> to 9<sup>th</sup> July, 47 instructors from 17 different schools participated in this training programme. This training was focused on new technologies adopted and tested by Vigyan ashram during last 2 years and introduction in IBT curriculum. Training was conducted using newly developed OER methodology. All instructors were given open educational resources (OERs) and multimedia course material on welding fabrication & electrical wiring on CDs.

Mr.Kiran Inamdar (HKF) conducted training on achievement motivation. Mrs.Seematai Khot (Suzlon foundation) conducted concluding session of training.



Instructor training certificate distribution



IBT Instructors training

## 2] IBT school updates –

- Ganesh and Kailash visited 7 IBT schools and provided technical support to them. They visited LAI office on 16<sup>th</sup> July for meeting.
- Ms Seema Khot of suzlon foundation has donated 1 laptop to Aichal IBT School in Nandurbar district.
- Nagaj School in Sangali district has planted 500 plants of चिंच आणि करंज (jetropa) in their village surrounding. Plants were in IBT nursery.
- Dr.Yogesh gave invited talk in the meeting organized by Maval Taluka principal association on 27<sup>th</sup> July.
- VA documentary screening and Q&A with Dr.Yogesh was held at SCERT,Pune in the training of newly appointed education officers. (12<sup>th</sup> July)
- Mahesh & sandeep camped in Pench schools to give push to IBT program.
- Jnan Prabodhini, Harali (Dist.Solapur) got permission to start IBT program from DVET.

## DST Core support project -

### 1] Aquaponics Project -

Spinach crop trial under aquaponics experiment is in progress. We got first harvest of 23.08 kg (aquaponics 13.05kg and control 10.03 kg control plot). Spinach is growing fine in aquaponics system but there are no visual significant difference observed w.r.t control plot. We have also purchased new fish seeds of Talipia breed from Pen (Mumbai) for testing their growth with aquaponics treatment.

Ranajeet wrote paper on Aquaponics experiment and submitted it to *Techforseva conference* to be held in September 2013.

### 2] Solar egg incubator trial –

Solar domestic egg incubator trial was completed with 69 % incubation success rate. Results were lower than expected because of following important reasons-

- Water circulation motor pump (DC pump of 0.15 HP) got problem from 15<sup>th</sup> day of trial, this results in lower incubation temperature inside chamber. (90° instead of 99.5° F).
- Incubation box is made up of thermocol and Bakelite sheets. Insulation from them was not sufficient for retaining incubation temperature for longer duration.
- Timer used for tray rotation developed problem.

We are working on the problems. Anil got order for supply of 1000 egg capacity egg incubator (grid powered) from Nasik.



### 3] Praj foundation supported Animal Husbandry project –

Following task has been completed by DBRT students -

- Poultry shed work is complete and first batch of 60 birds were shifted in poultry shed.
- Plumbing, internal coloring, cow partitions, milking parlor fabrication work is completed in dairy farming shed.
- DBRT students (new batch) has started construction work of fodder storage ramp.

### 4] Trainings on soil & water testing –

On 12<sup>th</sup> July, 11 SHG members from VARUDE village completed soil testing (soil sampling, testing and fertilizer dose calculation) and water analysis training. These SHG members were sponsored by Srinivas foundation, Shirur.

### 5] DIY Lab activity –

- Following equipments/ tools were purchased –

Workshop tools like - Bench grinder, multipurpose tool kit, Bench drill machine, Jig saw, Power hacksaw etc., computers – 2 office desktops.

- DIY lab also fabricated electronic kits - Street light controller (4 units), Clap switch-2 (2 units) , Fire alarm (4 units) for demonstration during open house exhibition.
- On 14<sup>th</sup> July, one day camp was organized for students from Prayas foundation. Students prepared DIY projects like 5v/9v power supply, mobile battery charger, fire alarm etc.
- Pradnya worked in Pabal fab lab and started lasor cutter. Trophy for ‘Youva Udyojak Purskar’ was made on laser cutter.
- Homi bhabha center and RGSTC organized study tour of various organizations shortlisted for submitting proposal for establishment of science center to VA on 4<sup>th</sup> and 5<sup>th</sup> July.



### 6] Invitation from National University of Singapore(NUS)-

Ranajeet got invitation for attending mid term review meeting of Centre for social media innovations for community (COSMIC) project in NUS. This meeting will be held from 13<sup>th</sup> – 17<sup>th</sup> Aug at Singapore. Under COSMIC project a team of researcher is developing mobile phone based crop pest management system called M-pest. Vigyan ashram has signed MOU with NUS for Mpest project and helping COSMIC team to conduct initial farmers need analysis.

## 7] EWB volunteers project

This year, Mr.Sam Atwell and Ms.Olivia Ferrari (EWB –UK) joined Vigyan ashram for volunteering assignment from 16<sup>th</sup> July. They will be working with DBRT students for developing waste management strategy for Pabal village. These volunteers will also develop teaching material in the form of OER (Open educational resources) for teaching waste management and test it in IBT schools. Another volunteer from Mr.Arthur Dalaise (France) is working on project to make 3 D printer by using D-I-Y open source information.

## 8] INDUSA PTI and INDUSA CAREs

- i) Following OERs are corrected and uploaded – a) Azolla b) Door Lamination c)Poultry
- ii) New OERs developed are - a) Study of Cattle age b) Soil Testing c) Started working on Polyhouse OER(Till July End)
- iii) Youtube Videos prepared and uploaded for a) Chikki b) Computer Fundamentals new video explaining computer peripherals and components on motherboard c) Azolla d) Door Lamination
- iv) Services from INDUSA Lab to village this month - ITI admissions – 4 nos
- v) Tally Training - 2 students , computer basic – 1 student

## 9] Other Tid-bit –

- I. Ranajeet Shanbhag and Ashok Kalbag visited Rajarambapu Technical Institute (RTI), Isalampur. They gave presentation of VA program and rural technology project to engineering graduate and post-graduate students. They also signed MOU with institute for joint research on appropriate rural technology.
- II. Jahangir Painter from Jalgaon who become famous for lending his scooter to Amir Khan in movie 3 – idiot visited VA on 11<sup>th</sup> and 12<sup>th</sup> July. He started 'Rancho School' in Jalgaon, which offered hands on training. He visited to explore possibilities of working in collaboration.
- III. Automatic weather station is shifted to new location. Previous location was in front of office and natural wind was arrested by office and workshop. New locations will face natural WIND without any obstacles.
- IV. Documentation of world bank project is complete and funds are transferred to our account. Similarly Lend-a-hand-India transferred funds for SOW and STARs forum activities.
- V. DBRT batch planted methi and kothimbir. They also sold 64 unit of methi and 40 unit of kothimbir (Sale Rs.500/-)
- VI. Profitability of Dairy farm : Gauri cow (Rs.1337/-), Soni cow (Rs.841) , Sharda cow (Rs.--) 463.52, Sonam cow(Rs. (-- Rs.162). Total Dairy profit in July is Rs 2178.53/- . This does not include labour charges.
- VII. Cow milk yield record- Income – 196.35 Lit milk + 434 Kg dung (worth Rs. 4056.59), Expenses – Rs.3213.5.00
- VIII. Goat farm insemination service in July – 22 nos
- IX. Weather record – rainfall of the month -95.66 mm ,Max temp- 24.19 °C , Min Temp –21.32°C , Humidity – 89.92% , Water height in well - .....
- X. Energy consumption record- Electricity unit – Three Phase - 1757 KWH, Single Phase - 0 Diesel consumption for generator- 1 Lit + 3 Lit (oil). {Generator is repaired this month, charges Rs.600/-}
- XI. Biogas consumption – Dung used- 997 Kg, Gas produced- 47.52 M<sup>3</sup>.
- XII. Two wheeler – 520 Km, petrol consumption – 12.05 lit (900 Rs.)
- XIII. Total visitors to [www.vigyanashram.com](http://www.vigyanashram.com) – 2597 (New visitors- 1837 , repeated visitor- 760)

**Data Pages :**

<https://docs.google.com/spreadsheet/ccc?key=0An4RfsZ2K2OdEI2QnBJWjZFUThBWG1wUGJUclJIV1E#gid=0>

**Photo Gallery**



Automatic weather station



DBRT Agriculture section- Coriander sale in weekly market



Water proofing of staff quarter : DBRT practical



Presenting laptop to Aichale school



Tool board : Project of Bargaon pimpri high school



Open House Exhibition