

Vigyan Ashram Status Report

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- Completed Order for Dry fruit roll cutter.
- Geodesic dome training in Pune.
- Trial for drying mango pulp – Mango pulp candy roll.

Village Level Entrepreneur (VLE) Training: World Bank Development Marketplace

1] VLE training on “Solar LED lamp assembly & Sales” was conducted at Livelihood College, Dantewada, Chattisgarh from 24th to 26th October. Total 34 students from Dantewada district participated in this training. Students learnt basics of different tools, lamp components, solar panel & battery assembly, LED assembly etc for first 2 days. They assembled 32 lamps during training and sold 21 lamps on 3rd day during marketing training. They exhibited their products in weekly market and gained hand on experience of marketing of solar products.

We expect these VLE’s to provide sales and service of solar products in their village.



Solar LED lamp assembly & sales training



Solar LED lamp assembly & Sales – 3rd day marketing stall

2] First conference of Development MarketPlace award winning organizations was held from 28th to 30th Oct at Rachi. Mr.Ashish Gawade, Mr.Aniruddha Atra & Mr.Pawan Bhaise represented Vigyan ashram. They presented progress report of work done. World Bank also organized training on “Management & working strategies”. A meeting with different consultancy organizations shortlisted by WB was also organized during the conference.

Dome construction training workshop

Mr.Anand Gosavi and Kasin Inamdar conducted dome construction training in college of Architecture, Balewadi, Pune on 28th – 29th October. Around 100 students participated in the workshop. They build bamboo dome as a structural prototype.

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

(Supported by Asha for Education, Unicef, Govt of Chattisgarh, Lend-a-hand-India, Suzlon foundation, Wildlife conservation Trust)

IBT school updates –

1) Committee for revision of IBT syllabus

A committee to revise IBT (v1) syllabus as per the National Vocational Qualification Framework (NVEQF) is formed by Directorate of Vocational Education & Training (DVET). First working group meeting of the committee was held at J.P Naik center (VA-Pune office) on 17th Oct. Following members were present Mr.Rajendra Ghume, Mr.Ashok Kalbag, Mrs.Seema Khot, Mr.Arun Dixit, Mr.Patil, Mr.Raj Gilda, Mr.Ranajeet Shanbag and Dr.Yogesh Kulkarni.

It is decided that Dr.Yogesh Kulkarni will make first draft of curriculum and circulate to all members for their suggestions.

2) Plan100 highlight

- Asade School – i) Cultivated rice on 30 gunta area. While cultivating rice, they used azolla as live green manure on 10 gunta plot. Effect of azolla on rice cultivation was prominently visible with more tillers/vigorous growth than non-azolla plots. Farmers from nearby area are visiting IBT-agriculture plot to see effect of azolla intervention on rice. ii) Workshop section of this school has earned Rs.10020.00 as community service till October month. iii) IBT agri students featured in Marathi serial 'Mazi shala'.
- Shirval School – IBT dept conducted training on leather bag manufacturing. School purchased new sewing machine. They earned Rs.3060/- from sale of bags this month.
- Ambejogai School – Energy & Environment section of Girls high school earned Rs.5340/- by providing various community services in village like repair of home appliance , sale of light strips , electrical fittings. This school also raised vegetable seedling nursery of 10 * 10 M, vermin-composting bed by using ferro-cement sheets and earned community service of Rs.935.00 in agriculture section.
- Bargaon-Pimpri School – Energy & Environment students fabricated biogas demo plant by using plastic tanks for science exhibition.



IBT Asade school rice cultivation with Azolla as green manure.



IBT Ambejogai students with their workshop project.

Wild life conservation Trust (WCT) supported schools -

1. Gurukul ashram shala, Devlapar- Harvested 92 Kg Methi and dried it for use in summer months. Students of workshop repaired their kitchen shed and windows in hostel of value of Rs.4500.
2. Swami Vivekananda School, Devlapar- Constructed vermin-compost in their agriculture section , Home & Health section student prepared various flow charts / posters for their food recipes.

INDUSA PTI

- Suhas and Pradnya, completed training on installation and operation of *N-computing* system.
- As online content development activity of INDUSAPTI project, 4 new OER's and 4 videos are prepared and uploaded on www.learningwhiledoing.in website. A website for Nai Talim conference on OER is uploaded on www.naitalim.in , sample OERs are uploaded on www.naitalim.in/lwd
- Two KARBOON android Tablets were having software problem. They were sent to service station. One of them got repaired and another is still with under servicing.

Presentations and discussion

- 1) Yogesh participated meeting on developing framework for monitoring and evaluation of 'Value Education' program conducted by Bhartiya Jain Sangathan in Beed District. Meeting was conducted at Amby Vally on 8th Oct.
- 2) Yogesh gave lecture on 'Education for Third Industrial Revolution' at Parivartan Vyakhyanmala organized by Baramati Agriculture Development Trust at Baramati on 20th Oct
- 3) Yogesh was felicitated by Rotary Club of Pune Central on 19th Oct for contribution in the area of vocational education.
- 4) Yogesh visited khodad on 22nd Oct and met Dr.Govind Swaroop. They wanted to start rural science center in khodad in line with IBT program.

DST Core support project

1. Mango pulp candy roll

Experiments to make mango candy roll from mango pulp was conducted in ambient temp dryer. Mango pulp which contains roughly 60 % moisture was spread to form 3 mm layer in a tray. Dried roll was rolled, cut into small round candy. We got recovery of 33% mango pulp(i.e 3 Kg pulp dried to form 1 kg of candy roll). Its natural flavor and color is retained.



Mango pulp candy roll

2. Aquaponics Project

New trial with tomato crop started this month. Objective of this trial is to study yield response of tomato crop (total kg of fruits/plant) in aquaponics system. Trial consists of 156 plants, planted in 12 rows (72 plants as control and 84 plants as experimental). These plants are of NOWARA variety of KF biotech, Pune. This variety is new in the market with round shape fruit and specially developed for polyhouse cultivation.

3. Dry fruit roll slicer machine

A dry fruit roll cutting machine is manufactured and delivered against order to M/S ISHWAR YOG TRADING PVT.LTD, Indore. This firm is manufacturer and exporter of various kinds of dry fruit roll. They got VA's machine information from www.vigyanashram.wordpress.com.

SOW project-

- Mahesh visited Himmatgram campus (A.Nagar) of Snehalaya on 24th October. They have successfully adopted azolla cultivation and using it for dairy farm. They have built polyhouse on 0.5 Acre. We are planning to provide on the job training in vegetable cultivation.
- Azolla cultivation training is contacted for SHG members of Waghala village (Tal- Shirur) in collaboration with SST foundation shirur.



Azolla cultivation training @ Waghala village

Praj foundation supported Animal Husbandry project –

Following are the important work completed under this project in OCT 2013 –

- Fodder chopping yard flooring and side wall construction (ferro-cement) is completed by DBRT students.
- Silage making culture and plastic bag is sourced. We will try plastic bag method for silage making.

DIY Lab activity –

- i) Composting of garden waste

Soil testing report of agricultural plots at JPNC shows that soil is very low in organic carbon (OC). For increasing soil OC, we need to add organic material in soil through compost manures. We have started garden waste composting activity. We are collecting garden waste from nearby housing societies and composting it by adopting various methods such as hot composting, hip composting, biodynamic composting etc.

- ii) Received replacement parts for laser cutter from MIT. The cost of the part is \$2500. It took lots of energy and time to clear the shipment from custom. We need to apply for IEC code and custom exemption. Request for the same is made to IIE.

DBRT (Supported by Asha for Education)

- DBRT students, fabricated a signage board for MUKH BADHIR SCHOOL, Pabal & repaired benches in Padmamani Jain English school, Pabal.
- DBRT students built a ferro-cement wall in cow shed as their practical work.
- DBRT students put up stall of various food products at Mind-tree exhibition, Hinjawadi Pune on 29th October. They also manufactured various products as manufacture various Amla Candy, Powder and Pickle(51 Kg), Puran mix (3 Kg), Bakery biscuits (3 Kg) etc. Total community service for October month is Rs. 7565.00.

- Students of agriculture section tested 26 soil samples collected by Sanjivani organization as community service (Rs.100 /sample). In Animal husbandry section, students vaccinated cows with FMD (Foot & Mouth disease) and goat with ITV (Intra- toxin vaccine) with help of local vet doctor.
- Kojagiri celebration – DBRT students, celebrated *kojagiri poornima* festival. It was a long camp fire and hot *masala* milk treats. Students enjoyed celebration till 1am at night with full of songs, fun-games, dance etc



Kojagiri celebration by DBRT Students.

Other tit-bit –

- I. MC meeting – On 12th of October, Management committee meeting was held at Paba. MC members as - Mrs.Mira Kalbag, Mr.Vijay Kumar, Mr. Ashok Kalbag, Mr. Sunil Kulkarni, Mr. Pravin Mahajan, Dr.Yogesh Kulkarni were present for this meeting. Construction of new kitchen building by using low cost, energy saving technologies, purchase of 2 computers in Fablab, staff appraisal were the important decisions taken in MC meeting.
- II. EWB volunteer Olivia and Sam completed their 3 months volunteering tenure, DBRT students / staff gave them send-off with warm memories of last 3 months work.
- III. Team from Cummins and Aquafilter India visited VA on 19th Oct. This meeting was aimed to take feedback on trial filter set given to us and to demonstrate new community filter model. We also discussed possibilities of collaboration between safe water trust and Vigyan ashram for manufacturing / marketing of different low cost water filters.
- IV. Mahesh and Anil visited Anandwan (Varora) to study waste plastic recycling project.
- V. Mr.Mukund Dharashivkar donated Rs.25000 to VA in the memory of his mother on 16th Oct.
- VI. One day workshop on hands-on-learning was conducted for 50 students of Dr.Arvind Telang Arts, Commerce & Science College, Pune. Students performed various activities as assembling LED batteries, solar lamp installation, Ferro-cement tanks, Fruit jelly preparation etc in workshop.
- VII. Farmers from Urali devachi & Wagholi village visited VA campus as their exposure visits to learn azolla farming, aquaponics farming technique and other agricultural activities.
- VIII. Weather record – rainfall of the month -0 mm ,Max temp-25.96 ° C, Min Temp –11.83 ° C , Humidity – 81.35 % , Water height in well – 5.69 Meter.
- IX. Energy consumption record- Electricity unit – III Phase -632, I Phase -529.
- X. Diesel consumption for generator- 5.11 Lit (Rs.300.00)
- XI. Biogas consumption – Dung used- 1089 Kg, Gas produced- 1110 Ft³. ,
- XII. Two wheeler – NA Km, petrol consumption – 5.11 Lit(Rs.300.00)
- XIII. Total visitors to www.vigyanashram.com – 1090 (New visitors- 851 , repeated visitor- 239) www.dsttara.in : Total Visitors: - 79 (New: - 72, Old: - 7)

Data Report:

<https://docs.google.com/spreadsheets/ccc?key=0An-4RfsZ2K2OdHhXMnRFN2NQV0RQWWWhDVDJGeW9VM0E&usp=sharing#gid=1>

Photo Gallery:



Solar LED lamp marketing stall @ Dentewada.



EWB volunteer send-off.



DBRT workshop students performing ferro-cement work



DBRT workshop students flooring work at cow shed



DBRT Home & Health students Amla candy processing.



DBRT Energy & Environment students assembling LED lamps.

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