

Vigyan Ashram Status Report

Volume 34 No 1

January 2016

In this issue

- Workshop on 'Starting Maker Space in School'
- Sevavрати Karyakarta award to Dr.Yogesh Kulkarni
- Training on 'Poultry Egg Incubation
- New 2 Wheeler for Ashram.

A] Starting Maker Space in school

We have conducted a workshop on '**Starting Maker Space in school**' on 4th and 5th Jan. It was attended by 16 participant from different organisations including Agastya foundation, Jnan Prabodhini, Maharashtra knowledge foundation and others. We had introduced them to various tools viz.laser cutting, 3D printer, CNC engraving, microcontrollers etc. We also gave them hands on exposure to show the easiness and effectiveness of these tools. A guidelines about cost and purchase of tools was also given to participants. We hope to start few maker spaces/innovation labs in these schools.



A guidelines about cost and purchase of tools was also given to participants.

B] Training on 'Poultry egg incubation – A Rural Enterprise' was conducted on 21st January 2016. It was organised with the objective of to spread awareness on poultry egg incubator business and 'Domestic Egg incubator' technology developed under core support program. 36 farmers and 12 poultry trainee attended the training.



C]Sevavrati Karyakarta award : Natu Foundation gave this award to Dr.Yogesh Kulkarni on 9th Jan at the hand of water conservation experts Mr.Madhavrao Chitale. Award comprises of Rs.25,000/- and trophy. Dr.Kalbag also received the 'Natu foundation' award in 1995.



D] Save Water.. Idea that worked !

Pabal village water supply pipeline passes near ashram. It has back pressure release valve near VA campus. This valve was not repaired and well-maintained by Grampanchayat authorities & it leaks large quantity of water. It's found that valve was wasting around 300 Lit water / hr (3000 to 3500 lit / day) by flowing down near valve area without any use. To use this water, DBRT workshop students fixed 2 pre-casted cement pipes as water tank and PVC pipe line. By this arrangement waste water is collected in these tanks and carried to VA campus by gravity flow. We are using this water for newly planted samplings, nursery, azolla bed etc. Cost occurred for fixing recycling this system is around Rs13000/-.



E] DBRT Update:-

- i) 26th Jan was celebrated with enthusiasm. Various cultural programs were organized after flag hosting. All students were busy after their classes for almost 10 days in preparation for the cultural program.
- ii) On 25th Jan, all students and staff did shramdaan and planted 50 new plants. We also provided vermin compost fertilizer to previously planted trees and did mulching around them.



26th January : Cultural program

iii) DBRT students done wiring of 10*6ft room of pvt customer in Pabal. They used one switch board, 4 holder point(5.5 points), Charged Rs.60/point. Total Material cost- Rs.725/- and service charge earned Rs.330/-.



iv) Solar system installed on kitchen building developed problem. Batteries were not getting charged on solar. Hence we send the circuit to Basil, Chennai for repair.
v) Wall Construction: Jayendra and Chandradip completed brick

work of Techno-park shed. Other carried out fabrication of 12 frames for DIC building.

vi) Food lab : Following items were made in the food lab in January. Sweet Lime Production- 16kg, Chilli Pickle – 10 kg, Mix Veg Pickle – 3kg, Dry Methi – 170kg, Potato Chips – 55kg., Chikki Preparation -5kg.

VII) Work is in progress to increase capacity of existing polyhouse. DBRT students prepared land for polyhouse on 17th Jan.

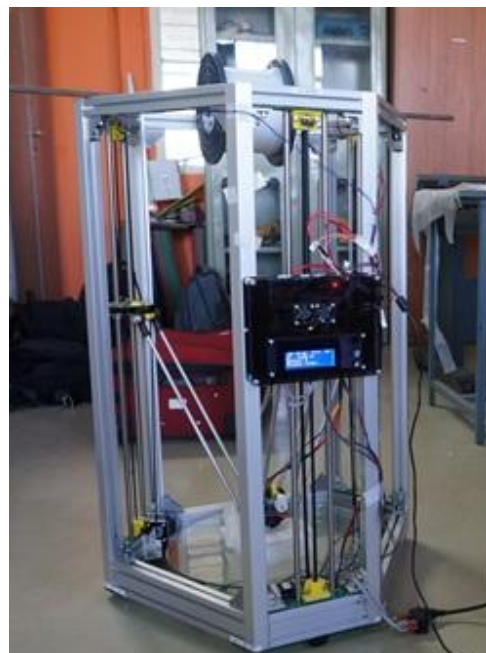
FJ Technology Development - Following projects are in progress

i) New 3D printer - Mr. Yutaka Tokushima and Chihiro from Fab lab – Japan visited VA on 18th -19th Jan 2016. They brought with them 3D printer specifically made for printing prosthetic legs or long parts. Yutaka's company made this 'Delta printer' in the Fab Lab. He conducted training of mechanical assembly and software of VA team. This printer uses elastomer and PLA material. We are going to use and test it in our prosthetic project.

ii) Suhas and Atul visited Agastya foundation at Kuppam village (Near Bangalore) on 22nd Jan. Objective of the visit is to provide technical help t in preparation for setting up of Innovation center.

iii) Fab Academy 2016 started from 27th Jan 2016. We have 4 students doing the course.

iv) Research paper authored by Mr.Ranajeet titled 'Effect on Recirculation Aquaculture System (RAS) on Fish Farming and Vegetables' was published in Periodic Research Journal. This journal



3D Printer for prosthetic printing

is bi-lingual quarterly published by 'Social Research Foundation' a Bhopal based Publication. Paper is available online with link-

<http://socialresearchfoundation.com/upoadreserchpapers/2/80/1601191049011st%20ranjeet%20shanbhag.pdf>

v) Internal review meeting of Technology development project was held on 6th Jan. We have discussed projects viz. prosthetic hand, solar applications, pre-fab dome etc. Mr.Ashok Kalbag, Mr.Ashok Mathur and Mrs Shilpa Saraf attended the meeting along with VA team.

G) Entrepreneurship Accelerator

i) Pawan visited 28 colleges around Pabal and displayed 'Entrepreneurship accelerator' and 'Design Innovation center' poster. We have announced 'Entrepreneurship development' program in March and we are selecting suitable candidates for the same.

चला अभिनव निर्माणाकडे...
शिक्षणकाळातचं व्यावसायिक बनूयात...
D.I.C.
Design Innovation Center

प्रवेश सुरु

कोर्सचे फायदे :

- स्वतःच्या संकल्पना प्रत्यक्षात साकारण्यासाठी.
- लोकोपयोगी नाविन्यपूर्ण प्रकल्प करणे व त्यावर व्यवसाय उभारणी करण्यासाठी.
- रोजगाराच्या नविन संधी मिळविण्यासाठी.

D.I.C.
पुणे विद्यापीठ व विज्ञान आश्रम यांच्या संयुक्त विद्यमाने खालील कोर्सस सुरु करित आहोत...

- वेस्ट मॅनेजमेंट
- सेन्सर ऑप्टीकेशन
- ऑडीओकॉन्ट्रोलर अँड प्लॅन्ट ग्रोथ
- कम्प्युटर ग्राफिक्स अँड प्रोडक्ट डिझाईन

प्रशिक्षण
प्रकल्प सह्याय
व्यवसाय उभारणीला मदत
मान्यता प्राप्त L-5 कौशल्य प्रमाणपत्र

कालावधी - ६ महिने

शैक्षणिक पात्रता
डिप्लोमा, कोणत्याही शाखेतील पदवीधर, L-4 प्रमाणिकरण, द्वितीय वर्ष अभियांत्रिकी प्रशिक्षण घेत असलेले विद्यार्थी, डिप्लोमा/टी किंवा संबंधित विषयाचे पूर्वज्ञान आवश्यक.

प्रवेशासाठी संपर्क : विज्ञान आश्रम
पावक, ता.शिर्कर, जि.पुणे 412403
फोन : 9579734720, 9527310383
ई-मेल : vapabal@gmail.com
वेब-साईट : www.vigyanashram.com

ii) Fellowship update :

a) Jayesh Dhayrkar – Jayesh completed his fellowship. His loan got approved from Rangde. He has built goat shed for 20 goats , cultivated fodder plots and also ordered poultry birds (Giriraj and Narmda breed) as side business activity.

b) Swapnil Narvade– Swapnil started vegetable nursery by erecting nursery shed on 10 Gunta.

c) Phuleshwar Ram – He is working on his electric motor repairing skills and repaired 10+ motor in last 2 months as his independent work.

d) Akshay Palkar – Akshay is working on Plastic water recycling and Rice De-husking machine project for learning metal fabrication skill. Presently he is undergoing various trainings at VA and wish to establish his start-up in Kothrud area of Pune.

e) Dattatray Chaudhari –Dattatray is IBT instructor from Manchi-hill School (Ahmednagar). He wish to start his electrical

supply and home appliance repair shop at his native. He has left instructors job and joined fellowship on 1st January. Presently he is working with motor rewinding USTAD at Pabal.

f) Prafull Gunjal and Uday Kiran both joined as new fellow for fabrication.

H] IBT Updates:-

i] IBT in Maharashtra:

a) 3-D Printer Workshop: Introductory workshop on 3D printing was conducted for Dhamari, Asade, Bhivadi & Hingangaon schools at DIY Lab, Pune on 3rd, 10th, 17th, 24th Jan 2016.

b) Scrap Revolution Rally: IBT schools in Bhivadi, Nagaj, Hingangaon, Hasur, Belewadi, Wadachapat, Chikhalgaon, Kurnze, Bargaon, Gawadewadi, Pargaon, Mukhai, Manchihill, Bhandari, Shindavane villages organised scrap revolution rally in their village. Schools got lots of equipment, old part, material to experiment with and make new things !

c) IBT baseline is done in Bori, Chas, Narayangaon schools. IBT instructors orientation training was held at Pabal between 18th – 20th Jan. 11 instructors participated in the training. They will established IBT setup in school and start IBT activities in the schools.

d) Nagaj –IBT school successfully started hydroponic fodder making unit.



Scrap Rally : Gawadewadi

ii) IBT in Chattisgarh :

a) All 17 porta cabin schools put their stall in Rangeela Bal Mahotsav from 2nd – 8th Jan at Dantewada. They made community service of Rs.45000/- through these stalls. Education minister of Chattisgarh Mr.Kedar Kashyap MP, MLA, Govt officials, Collector visited IBT stall and encouraged students. Approximately 30000 students visited the stalls and got the information of IBT program.



Educational Minister Mr.Kashyap @ IBT stall

b) Shilpa Ballal and video shooting team carried out video shooting from 15th to 21st Jan at IBT schools in Dantewada and Bijapur. They also interviewed Govt officials, District Collector, Unicef Officials and community members.

c) Sachin & Pawan visited Jashpur on 15-16th Jan to select potential IBT schools.

iii] IBT in Odisha :

- a) Refresher Training Program for instructors was held from 9th – 13th Jan with 40 instructors at Sunabeda, Koraput.
- b) Malkangiri IBT program harvested 164 kg of vegetables (approx. value Rs. 3890/-) in Jan, 2016

I] Other tit-bits-

- i) Thanks to support from Daniel and Elisabeth, we got new two wheeler on 14th Jan. It will be useful for IBT staff to travel short distances for IBT activities. Registration no of new 2 wheeler is MH-12 MS 8864 (Chassis no – MBLHA11ATG9A1033)
- ii) Daily Sakaal published news about DIC opening on 17th Jan <http://epaper3.esakal.com/17Jan2016/Normal/PuneCity/Pune1Today/index.htm>

- iii) Following new staff members joined VA this month –

- Dadaso Patole (Bsc Agri) – Agri-Animal Husbandry section
- Sachin Lokhande (Msc Chemistry) – IBT Section.
- Samina Mulani (Bsc Agri) – Home & Health section.
- Dr. Subir Bhaduri – Design Innovation Centre



vi) Weather record – rainfall of the month – 0mm, Rainfall YTD – 480 mm, Max temp-34°C , Min Temp – 6°C, Humidity –63% , Water height in well – 6.7 M

vii) Energy consumption record- Electricity unit – Three Phase - 1225 KWH, Single Phase – 1039 KWH , Quality – No. Of interruption- 134 (50.3 hrs), Normal Voltage -89% High Voltage- 1.9% Low voltage- 2.3% No Supply-6.8%

viii) Diesel consumption for generator- 0 Lit , Two wheeler running- NA.

ix) We got 2MPBS internet connection from service provider 'Airavat'.

ix) Biogas consumption – Dung used- 1360 Kg, Gas produced- 38.5 m³

x) 567 visitors visited Vigyan Ashram in Jan 2015.

xi) Online visitor www.learningwhiledoing.in –New-549 , Repeated –71, www.dsttara.org – New-804 , Repeated –186, www.vigyanashram.com –New- 1426, Repeated – 406, www.vigyanashram.wordpress.com – Visitor –2691 , Viewers –1057.

Data Report Link-

<https://drive.google.com/file/d/0B3-4RfsZ2K2OdzQwVjZoX3BjNUE/view?ts=56d92312>

(Work of Vigyan ashram is also supported by Asha for Education, INDUSA, UNICEF, Govt. Of Chhattisgarh, Lend-a-hand-India, Suzlon foundation, Megger (I) Pvt Ltd, Eton (I)Pvt Ltd, Dept of S & T , RGSTC, Praj Foundation and Many Individuals and foundations)

Photo Gallery:



IBT instructor training at Pabal



Parents meeting for IBT awareness @ Chas village on 16th Jan



Hydroponic unit @ Nagaj school



Tilali – IBT – Hydroponic output



Meeting with school representative @ Bataikela (CG) on 16th Jan



DBRT students working on Laser cutting machine

For regular update : <https://www.facebook.com/vigyan.ashram.pabal>