

# Vigyan Ashram Status Report

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### A] Completion of Classroom Construction

Classroom construction work was over on 24<sup>th</sup> July. We have conducted DBRT certificate distribution program in the new classroom on 25<sup>th</sup> July. It was inaugurated at the hand of Mr.Sandip Surpam (DBRT student 2016-17), who had earned maximum amount of community service while constructing the classroom. Total area of classroom is 1800 sq.ft and seating capacity of 160. We are planning to install audio video equipment's on permanent basis in the classroom. Some work of lighting and furniture is still balance. We are expecting overall cost of construction will be approx. Rs.24 lacs.

We are thankful to Dr.Kishan Bhatia, Asha for Education, INDUSA , Mrs.Veena Joshi, SPA Education foundation, kusum Soham parivar and many individuals for their support.



### B] DBRT 2016-17

DBRT 2016-17 was started on 10<sup>th</sup> July 2016 and completed on 25<sup>th</sup> June 2017. Total 52 students joined the program in June 2016 and after successful completion of the course 37 students are placed with different organizations such as: Kumar Solar Enterprises Pune, Jagatap Fabrication Ashtapur, Tree Labs, Ecoev India Pvt. Ltd. etc. They got average salary of Rs.8,000/-pm. Others are mainly planning to do agriculture or family business at home. We are asking our students to write their blog and submit report online.

Please watch 4 min video for DBRT2016-17 : <https://www.youtube.com/watch?v=bRLjhrMgffs>

Please visit blogs of DBRT students : <https://vigyanashramdbrt.wordpress.com/>

Photo of DBRT activities are available on : <http://vigyanashramdbrt.blogspot.in/>





### C] Training on Micro Solar Dome (MSD)

Vigyan ashram in collaboration with NBIRT, Kolkata organized 3 days' workshop on Micro solar dome installation from 1<sup>st</sup> June to 3<sup>rd</sup> June 2017. Twenty members from DST supported core organization from 6 states participated in the training. Objective is to install and test MSD in different agro-climatic zone. It will be national initiative of Govt of India. Each of these organizations will install approx.500 MSD in tribal areas of their operations. VA will install MSD in Maharashtra and Chattisgarh.

As part of training we have installed one solar dome in house in Hanuman nagar slum in Pune. Chattisgarh IBT team installed two Solar dome in Karli and Matwada village.





## D) IBT Instructors Training Program

IBT instructor training program was conducted in June (1<sup>st</sup> to 5<sup>th</sup> June and 10<sup>th</sup> to 13<sup>th</sup> June). Total 97 instructors from 30 schools participated in the training.

A. 1<sup>st</sup> to 5<sup>th</sup> June training was aimed at introducing instructors to Level 2 syllabus. Few new technologies such as using smartphone applications and websites, design thinking methodology, IBT mart were introduced.

B. 10<sup>th</sup> to 13<sup>th</sup> June training aimed at practicing design thinking methodology, introducing instructors to use of internet to find new project ideas and online documentation of the projects. These instructors selected few ideas to work on and prepared useful machines and products and documented the same using blogger. Related links are given below :



DIY wood lathe machine: [http://ibtbhandari.blogspot.in/2017/06/blog-post\\_13.html](http://ibtbhandari.blogspot.in/2017/06/blog-post_13.html)

Lathe Machine Video: [https://drive.google.com/open?id=0B\\_XAts2trEHsTGIPS3RJTUNEamM](https://drive.google.com/open?id=0B_XAts2trEHsTGIPS3RJTUNEamM)

Make a solar street light using scrap: <http://ibtchikhalgaon.blogspot.in/>

Hanging garden: <http://ibtbhandari.blogspot.in/2017/06/blog-post.html>

Chocolate Cake: <http://ibtvadachapat1.blogspot.in/2017/06/blog-post.html>

## E) Training on Megger Instruments:

Training and distribution of Megger instruments was completed on 14<sup>th</sup> and 15<sup>th</sup> Aug. Seven electrical instructors from 7 technical schools attended the training. They were given set of advanced electrical measuring instruments Earth resistivity meter,



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insulation tester, clamp tester, multimeter etc. These instruments will be used for training and providing community services.

#### **F] Goat farming training workshop –**

A workshop on 'advanced techniques in goat farming' was held from 26<sup>th</sup> to 28<sup>th</sup> June. Workshop was attended by 70 participant farmers from Pabal & surrounding area. This workshop was organized jointly by VA & Srinivas Service trust.

#### **F] Soil Health card mission:**

Soil sample collection work has started. We had collected around 2500 samples from different villages. DBRT students, student interns from Agril , B.Tech College are

helping farmers & agricultural department to collect soil samples from field. IBT students from Mukhai School and students in Pimplekhalsa village participated in soil samples collection work. Ranajeet attended farmers meeting conducted by agril department on soil health card mission & VA lab facility in Kavathe , Mukhai , Pimplekhalsa village.

#### **H] IBT Updates:**

Sachin attended meeting on IBR-MSFC implementation at SSC board on 23th June. The meeting was to resolve queries of school headmaster about introducing IBT-MSFC as core subject.

#### **I] Update - Technology development & Design innovation centre :**

a) Fab Academy : Fab academy project presentations were conducted on 16<sup>th</sup> June 2017. They presented their project using Video conferencing to Dr. Neil Greshenfeld. After project presentation, Local evaluation of students was started on 21<sup>st</sup> June to 28<sup>th</sup> June. Students displayed all their assignment on 25<sup>th</sup> June. After local evaluation, work of six students (out of seven) were send for global evaluation. Students work is available on <http://archive.fabacademy.org/archives/2017/fablabvigyanashram/>

b) We are working on an order from Mr. Manoj Pawar to make 3ftX3ft CNC router for milling on soft wood.



**Goat Farm Training**



**Fab Academy students with her projects**



### c) Volunteers and Intern:

We are giving to projects to Volunteers and interns. Following volunteers joined DIC for their internship during 1<sup>st</sup> to 30<sup>th</sup> June:

- i) Three Student's from Agri B.Tech college Vaibhawadi (Sindhudurg) worked on bio-composting, hydroponics & dryer project
- ii) Two student's interns from Agril B.Tech Akola College-worked on mushroom cultivation & evaporative fridge project.
- iii) 2 Student's interns from Agril B.Tech Dapoli College-worked on hand-held seed sowing device & soil analysis project.
- iv) 4 Student's interns from Agril B.Tech College Solapur worked on bio-composting, solar cooker ,egg incubator , soil analysis project.
- v) Six Students from Lovely Professional University, Punjab joined VA for Biogas Training for one month
- vi) Two students from S.P Jain Management Institute and Research, Mumbai for 14days.
- vii) Mr.Gautam Das from Kolkata took admission for one month fablab internship.



**DIC students with Dr.J.B.Joshi**

### **JJ Entrepreneurship Development Program:**

- i) Pawan visited Karad on 24<sup>th</sup> June for NGO meet arranged by Suzlon foundation. Idea is to give information to them about Entrepreneurship acceleration program.
- ii) First batch of Bosch BRIDGE Training has started from 1<sup>st</sup> of June 2017. We have distributed training kit to 18 students.
- iii) Entrepreneurs Stories of this month:
  - a) VA DBRT alumni, Mr.Sameer Ganpat Paikari started agriculture tools fabrication workshop 'OM Sai Fabrication' in Mukam village in Ambegaon taluka.



- b) Entrepreneurship Development Training program (EDTP) participant Mr. Prashant C. Mehar started business of renting space.
- c) EDPT participant Mrs.Pradnya Thite started busines of Spices (Masale) making from home.  
. Details are on <https://ruralstartup.wordpress.com/>

### **K] Update - Technology development & Design innovation centre:**

Following is the short update on some of the current project at DIC and Core support project.

- i) Hydroponics unit fabricated & installed at 'Differently able School' goat farm in Pabal. This unit is fabricated against order from School.
- ii) Supriya and Komal attended training on 3D printer on 6<sup>th</sup> and 7<sup>th</sup> June at Div- by-Zero, Mumbai.
- iii) Subir is working on improvement of Rice planter and incinerator.
- iv) New design of composter is under fabrication.
- v) Yogesh participated as Jury in '**Bharat Innovation Summit'17 (BIS)' organised by 5<sup>th</sup> Bharatiya Vigyan Sammelan on 21<sup>st</sup> June. We have offered prize of prototyping and mentoring support for 2 best ideas.**
- vi) DIC student Suvarna made a device Aerosense in the Fab Lab. This device collects multiple sensor data and transmit via Bluetooth to android phone. It measures temp, humidity, Light intensity, Co, Co<sub>2</sub>.



Watch its video on : [https://www.youtube.com/watch?v=rS\\_ukCku094](https://www.youtube.com/watch?v=rS_ukCku094) ;

and details on Instructables : <http://www.instructables.com/id/Sensors-With-APP/>

### **M] Other tit-bit :**

- I. Cow : Gau was expired on 16<sup>th</sup> June. She was sick for some time.
- II. Yogesh, Supriya and Dr.Arun Dixit visited DIC -Nasik as an external examiner on 23<sup>rd</sup> June.
- III. Mr.Vishwas Shinde resigned from VA for better prospects.
- IV. Yogesh gave a talk on 'Rural Development through Education system' for fellows of Teach for India on 24<sup>th</sup> June.
- V. VA management committee meeting was held on 25<sup>th</sup> June. We have Mrs Anjali Chikapatti and Mr.Mahendra Rajgude as new members of Management committee. Both of them worked with VA in the past. We have discussed reconstruction of hostels and other issues in the meeting. It was attended by Dr.Aruna Giri, Mr.Ashok Kalbag, Mr.Sunil Kulkarni, Mr.Mahendra Rajgude, Mr.Anjali Chikalpatti.
- VI. Weather record – Rainfall – 124.9mm (Total 124.9mm) ,Max temp-31 °C, Min Temp – 15 °C , Humidity – 46%, Water height in well – Dry .
- VII. Energy consumption record- Electricity unit – III Phase-756, I Phase-1350. Quality of power : Number of interruptions : 239, Normal voltage : 83.9 % , No supply : 15.88 % , low voltage :0.2 % , high voltage : 0.00 % , Data not recorded :0.6 %
- VIII. Biogas consumption – Dung used- 423 Kg, Gas produced- 30.3m<sup>3</sup>.
- IX. Visitors to VA : 62 people visited VA. Beside this senior scientist Dr.J.B.Joshi visited VA along with scientist from ICT on 22<sup>nd</sup> June.



X. Visitors : [www.dsttara.org](http://www.dsttara.org) – 600 (New- 495, Repeated –105 ),[www.vigyanashram.com](http://www.vigyanashram.com) – 1599 (New visitor – 1047 Repeated-552) ,[www.vigyanashram.wordpress.com](http://www.vigyanashram.wordpress.com) – 2467 (Visitor-1621 Viewers-846)

**Data Report:**

[https://drive.google.com/open?id=0B\\_Jk2xLqAXjcNGZueHRCandsTXNxdDV2WIViUIRzZV9Lb0ow](https://drive.google.com/open?id=0B_Jk2xLqAXjcNGZueHRCandsTXNxdDV2WIViUIRzZV9Lb0ow)

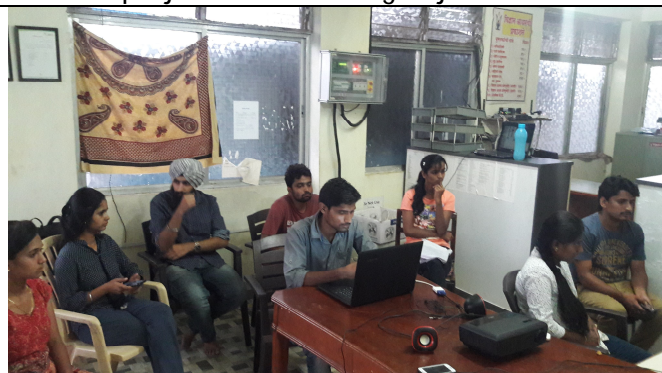
**Photo Gallery:**



Best DIC project award to Meghraj



Soil testing meeting at Pimple-Khalse



Fab Academy presentations through video conferencing



Goat farm training participant

**For Regular update:** [www.facebook.com/vigyan.ashram.pabal](https://www.facebook.com/vigyan.ashram.pabal)

**Our sites :** [www.learningwhiledoing.in](http://www.learningwhiledoing.in) , [www.dsttara.in](http://www.dsttara.in) , [www.vigyanashram.wordpress.com](http://www.vigyanashram.wordpress.com) , [www.vadic.wordpress.com](http://www.vadic.wordpress.com) , <https://ruralstartup.wordpress.com/>

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