

Vigyan Ashram Status Report

Volume 35 Issue 4

April 2017

In this issue

- Slab completed for new classroom
- DBRT students fabricated three air coolers
- Completion of bakery training course
- Summer camps on ' Digital fabrication & basics of robotic'

A] Updates on new classroom construction

New class-room construction work is in progress. First floor slab filling work was completed on 10th April. DBRT students are also participating in some of the construction activities viz. mortar making, brick laying, plastering etc. Work got delayed by 3 weeks due to labour & water shortage. Internal seating arrangements is finalised in consultation with architect. Now we are expecting to complete the work by June 2017.



B] Bakery training Course completion : Bakery training course was completed on 14th April. 22 girls from tribal district Jashpur (Chhattisgarh) completed two months residential training. All of them successfully passed examination conducted on 13th April by external examiner appointed by Chattisgarh Skills Development Authority.



C] IBT Schools principle meeting

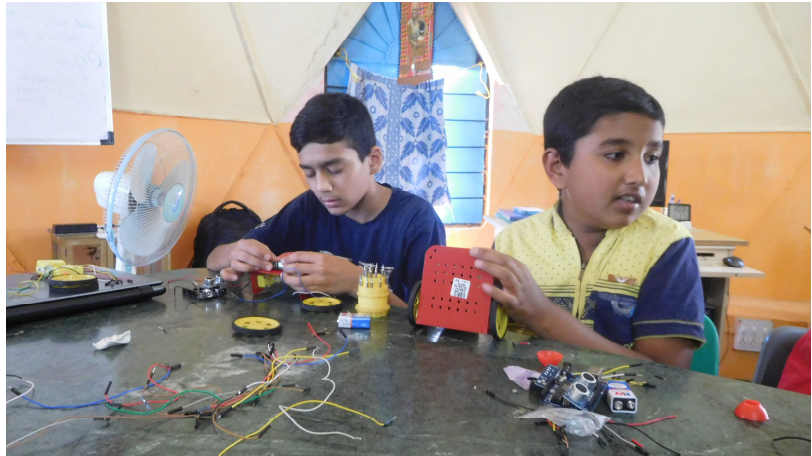
Annual review meeting of IBT School principals were held at Pabal on 17th April 2017. Meeting was attended by 43 principals. Agenda of the meeting was to take a review of last years progress, introduce new initiatives to further improve IBT program. Various issues related to implementation of program were also discussed. During meeting Schools representative featured work done under IBT program, shared experience and challenges in implementing IBT program. Shri.Vinayak Kelkar from M/S Praj Foundation shared expectation from Model IBT schools.



D] Summer camps on 'Digital fabrication & Robotic'

We have conducted following summer Fab-camps on 'digital fabrication & basics of robotics' at following locations -

- 27th to 29th April : @ Fab Lab-Pabal. It was residential camp attended by 8 students to learn basics of 'digital fabrication' like 3D designing , printing, laser cutting & basic programing.
- 17th to 22nd April : @ DIY lab Pune. 'Fun with Electronics' camps was attended by 14 students. They learned basic electronics, arduino programming and making small projects using sensors.
- 25th & 26th April : Supriya & Komal conducted one day introductory workshop on 'basics of electronics' in 2 School of Patan in Satara district. Total 60 students attended this basics introductory course.



E] DBRT Update:

DBRT students were largely busy with completing their projects. Following are some of the highlighted activities as -

- In Workshop department, students fabricated windows grills (ventilators) for new classroom building.
- Due to hot summer, IBT dept wanted to hold IBT Principals meeting in place other than Pabal. Instead, we have decided to fabricated three air coolers in far less budget of shifting venue from Pabal. DBRT team fabricated 3 units of air coolers against order from IBT department. Of-course after the meeting, air coolers remain for common use at ashram.
- DBRT alumni of 2010-11 batch, Mr.Dnyaneshwar Butte came to VA for 1 week to learn 'plasma cutting'. Dnyaneshwar is presently working in 'Mahindra Automotive plant' as trainee-fabricator and advanced fabrication skill will help him to get promoted to higher skill level job.
- Students in Agriculture section planted tomato crop in 'polyhouse'. We are experiencing heavy water shortage & therefore to fulfil part of fodder requirement, students have planted 'hybrid Napier (*Pennisetum purpureum*) grass using gray water collected from their hostel blocks. At present we are collecting around 1000 lit/day grey water. It is treated using bio-filter and we are using it for fodder making.
- In energy & environment department, students replaced single phase service cable in campus and also learned basics of electronics while fabricating solar lamps.



DBRT Team @ Mahabaleswar

- On 9th April, DBRT students visited Mapro garden & food processing park at Mahabaleswar (Satara) as part of their study tour. It was 1 day tour covering some of the famous tourist spots and mapro garden near Pune.

F] IBT Updates: – a) IBT Maharashtra -

i) IBT Schools in Maharashtra state were busy in conducting annual examination & academic year closer. Here are some of the highlights of IBT program during 2016-17 in Maharashtra –

- Total number of Schools supported – 95 (21 districts of MH state covering around 440 villages)
- Total number of students benefited – 12350 (Boys – 7057 & Girls – 5293)
- Total number of IBT instructors trained – 392 in 5 training programs
- Average community service earned by Schools – Rs.58439.00 per School
- Number of technologies transferred – 40 + technologies
- Video of IBT activities in 2016-17 is available on :



available on : <https://www.youtube.com/watch?v=DKDBYz8I9zw&feature=youtu.be>

ii) We are introducing online data management system for IBT Schools in Maharashtra. It will be available at <http://myibtschool.com/>. At present the portal is in testing phase and will be activated as per feedbacks / suggestion of the schools from next academic year.

iii) A Survey was conducted to identify new candidate IBT Schools in 'Baramati' and 'Satara' district.

b) IBT Chhattisgarh –

- Yogesh visited Dantewada and Bijapur IBT porta-cabin Schools from 24th – 27th April to take review of the program & planning for coming year. He met Collector of Dantewada and district administrative officers of both the district. It is decided to continue the IBT program for next academic year with Govt support.
- Yogesh and Rajshekhar attended 'Tribal Education' conference organised by 'Bachapan Banao' at Dantewada. We have screened documentary on IBT program 'Kaam main hi gyaan hai'. Yogesh also conducted half a day hands on workshop for schools teachers on 'Integrating work with school curriculum'.
- Yogesh also visited NGO 'Sathi' at Kodhangaon on 24th to understand their work in pottery and black smithy.



Teachers workshop on Work centered Education

G] Update - Technology development & Design innovation centre :

- One unit each of 'Rice de-husking machine' is delivered to Mr.Limbaji Bhogte, (a farmers from Kharpud, Tal- Rajgurunagar, Dist-Pune) and Lokpanchayat organization at Sangamner (Dist- Ahmadnagar). Limbaji is supported by MPCCT trust & ARTI (Phaltan) under DST supported technology adoption program, while Lokpanchayat using this technology from past 1 year & wish to expand their production with one more unit due increased demand for brown rice in market.
- A Survey was conducted for 'Micro solar dome'(MSD), a solar lamp technology developed by NB Institute of Rural Technology (NBRIIT, Kolkata). NBRIIT is our partner DST CORE organization and wanted to field test its technology for promoting it in different agro-climatic zones and tribal pockets of India. We have conducted survey of 440 households in 23 villages in Pokhari (Tal- Ambegaon) , Amboli (Tal- Rajgirunagar) and Pasli (Tal- Velha) of Pune district.
- Trial is under progress for modified solar egg incubator machine. New model has automated tray rotation timer and solar heat transfer system.
- On 10th April. Dr.Madhav Gadgil (renovated environmental scientist & writer) and Mr.Subhodh Kulkarni conducted one day workshop on Marathi-wiki and digitalization of Marathi content using open source OCR tools.



VA staff with Dr.Madhav Gadgil

- One day orientation cum workshop on starting Atal Tinkering Lab in school was organized for teachers and management members of Dr. Kalamadi High school, Pune on 7th April 2017. They have got sanction of Atal tinkering lab.
- In Design Innovation Centre (DIC), Four Interns from college of agricultural engineering (Dr.BSKKV, Dapoli) completed their four months internship program and completed following projects.
 - i) Solar Rava Roaster
 - ii) Terrace garden
 - iii) Solar Fridge for vegetable vendor
 - iv) Bio-Drum (composter)

H] Entrepreneurship accelerator program –

- Mr. Dhananjay Abhang, started *swachgas* (www.swachgas.com), an urban waste management enterprise in Pune. Dhanjay attended our training and has carried out his initial experiments on standardization & efficiency improvement of urban waste based bio-gas unit at VA. We are providing technical support to his new enterprise.
- Mr. Shivaji Mehre (IBT instructor at Jamgaon School in Ahmadnagar district) a metal fabrication workshop at his native village. Shivaji is working as workshop instructor. He has invested around 1.5 lakh in his new enterprise.
- Pawan attended 'train-the-training' program under BOSCH-BRIDGE during 15th to 23rd April in Bangalore.



Workshop shed of Mr. Shivaji Mehre

Other tit-bit –

- I. DBRT students & staff participated in 'Jivansarita exhibition' organized by Art of living (Sri.Sri.Ravishankar foundation) on 19th April. We have put information exhibit of various skill training courses of VA.
- II. Vishal & Pawan attended TATA motors CSR annual review meet on 27th April and presented progress report of this year and plan for next year.
- III. Mr.Bapat and Mr.Sushrut Phatak donated their used furniture to VA.
- IV. We have two French intern Ms Agatha Bras and Eva Maillard joined VA for 6 weeks volunteering. They will be conducting classes for computer (30th April – 9th June).
- V. Maharashtra Bharteeya Shikshan Mandal gave donation of Rs.25,000 to VA. We are thankful to them.
- VI. Yogesh attended Regional Workshop organised by MHRD to share Innovations and Best Practices on 29th April in Pune.
- VII. Weather record – Rainfall – 0 mm (Total 333.18 mm) ,Max temp-39.63 °C, Min Temp – 17.76 °C , Humidity – 26.33 %, Water height in well – 7.33 Meter.
- VIII. Energy consumption record- Electricity unit – III Phase - 1008, I Phase - 552. Quality of power : Number of interruptions : 141, Normal voltage : 85.3 %, No supply : 5.85 %, low voltage :0.00 %, high voltage : 0.00 %, Data not recorded :8.47 %
- IX. Biogas consumption – Dung used-257 Kg, Gas produced- 38.41 M3.
- X. Total visitors to www.vigyanashram.com –1311 (New visitor – 869 Repeated-442), www.dsttara.in : Total Visitors: 579 (New- 541 , Repeated –38)

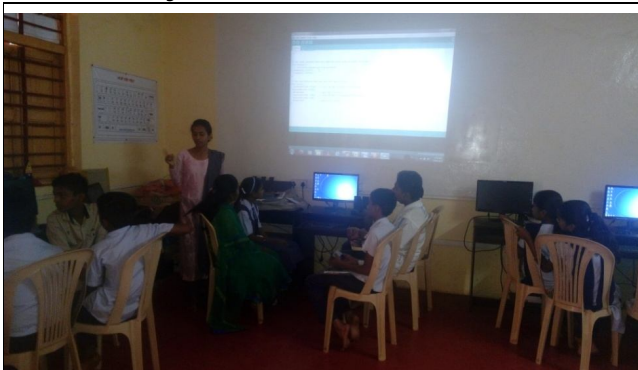


Data Report:

https://drive.google.com/open?id=0B_Jk2xLqAXjcOVJwNW9OU05QbFU

(Work of VA is supported by Asha for Education, Praj foundation, EATON Foundation, SPA Education Foundation, Megger (I) Pvt Ltd, Tata Motors, L & T Infotech, INDUSA Endowment, Unicef, Govt of Chhattisgarh, Nalanda (ILFS) foundation, Savitribai Phule Pune University, Lend-a-hand-India, Suzlon foundation, Dept of Science & Technology, and many individuals and foundations)

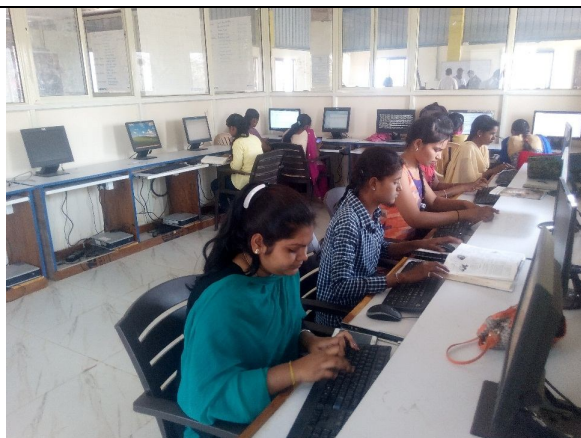
Photo Gallery:



Supriya conducted camp at school in Patan



DBRT students made windows for new classroom



Computer training in progress



Practical exam : Bakery course

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

Our sites : www.learningwhiledoing.in , www.dstattara.in , www.vigyanashram.wordpress.com ,
www.vadic.wordpress.com , <https://ruralstartup.wordpress.com/>