Vígyan Ashram Status Report

Volume 36 Issue 4

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A] PM Narendra Modi visited IBT program stall

PM visited Jangla village in Bijapur district (Chattisgarh) on 14th April 2018. Bijapur is one of the

aspirational district and PM was there to inaugurate several initiatives on the occasion of Dr.Babasaheb Ambedkar Jayanti. VA is working in Jangla porta cabin school since 2011. District administration asked us to showcase IBT program. Prime Minister visited IBT stall and interacted with IBT students. We also exhibited information about the new innovation lab being setup by VA in village Palnar. We have gifted 3D printed statue of Dr.Babasaheb Ambedkar to PM. PM



also liked the small torch made by the students and accepted it as gift as well. At last his comments to the stall was " आप कौशल्य वाले हो ! आप यहा अच्छा काम कर रहे हो !'.Team of 8 members from VA worked day and night for 15 days to prepare for the exhibition for PM. To our satisfaction PM posted photo of visit to our stall in his social media account.



B] Samarpan Sanman Award : Team Vigyan Ashram was felicitated with 'Samarpan Sanman' award in a function held at Shirala (Kolhapur) on 22nd April. It was constituted in the memory of Prof.Shivaji Kumbhar. Award was given at the hands of famous writer Mr.Achyut Godbole. Yogesh Kulkarni accepted the award on behalf of Vigyan Ashram. We are thankful to organizers for the honour.

April 2018

C] IBT Updates:

i) Video conference setup was purchased & installed for
 21 IBT schools supported by Praj foundation. It will be
 useful for conducting virtual IBT classes. Similar some
 missing tools for 26 schools were purchased from
 unutilized budget of last year.

ii) 10 schools completed Bio-Diversity register of their village.

iii) 16 IBT schools have blog for recording their activities.Examples : <u>http://nesibt.blogspot.com/</u>;<u>http://ibtmanchi.blogspot.com/</u>

iv) 10 OERs are completed and submitted to Maharashtra Knowledge Foundation

v) IBT students are implementing technologies learnt at their home. Several students made Azolla bed and vermin compost at their home. See Picture of facebook post of father of student from Chas IBT school.

vi) L&T project financial audit conducted by third party on 9th April at Pune office and Katraj school.

vii) Machines and Tools for Palnar Fab Lab reached Dantewada. We are still working with Govt to get electricity connection for lab.

viii) IBT Bori school successfully completed food order of

KSCL Toll Plaza on 28th April. They have supplied pickle-8.6kg, Jam-2kg, sos-6kg, papad-5kg ,Nankatai-2kg. Total food order was of Rs.4090/=

D] DBRT Updates :

i) DBRT students are in the last phase of their training. They have learned all necessary skills and now taken over most of the work at ashram. Several projects are in progress. For e.g Students constructed 'कट्टा Katta' around trees, See-Saw @ social space, Fixed grills @ Ladies hostel, Reconditioning of dryer for dispatch, gate for ashram. Students are also taking part in wall construction of new hostel as part of their practical's.

ii) Poultry egg layers farming – Started poultry farming for Eggs from 11th April. We got 120 birds (15 weeks old) along with cage. We are expecting eggs production after 3 weeks.





Vijay Modhave is with Nilesh Modhave and 8 others.

माझे चिरंजीव भाविक मोढवे याने तयार केलेला अझोलाचा

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• News Feed

बेड....

11

31 Mar at 5:44pm



iii) Silage making - Prepared 7 tons of silage from green maize & sugarcane leaves by using plastic bag

technology. Its costed us around Rs.2.5 /Kg & it will be sufficient for us for next 4-6 months during monsoon season. iv) DBRT students installed 4 insect killers at Kitchen. Install fan at ladies' hostel.

v) Cake Making workshop was conducted by Ms Amruta Patil on 19th and 20th April.

vi) Food Processing examination by Maharashtra Skills development society was held on 24th April. 18 students appeared for the examination.

vii) Making Sauce on Solar (Scheffler) :



New Poultry Cages for Eggs

Yogasree and DBRT students made Tomato sauce using solar energy. They made sauce from 50kg tomatoes. It is observed that maximum 30 kg tomatoes can be boiled in 3 hours if the focused temperature is above 200 ^oC.

viii) To improve quality and documentation of DBRT project, we have decided to form a team of one DIC students and four DBRT students for working on project.

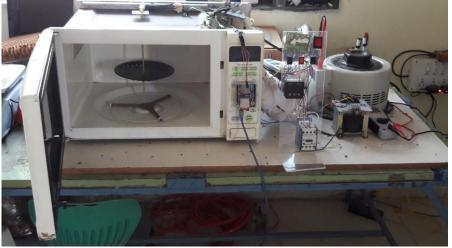
E] Update - Technology development & Design innovation centre:

i) Drying Apparatus: We are helping M/S Anandghana Industries for developing Standard Operating Procedure (SOP) for microwave dryer. For making efficient use of microwave dryer, we are suggesting mix of conventional dryer and microwave dryer. There was a need to make one small laboratory scale

apparatus which will enable us to enter thousands of operating environments to understand actual drying and to generate the SOP's for various veggies.

Shrikant made Drying apparatus using microwave. Its features are:

- Real power control (0-900W RF output)
- Average power control/time sliced control/energy control (majorly for the controlled heating of substrate).
- Controlled air flow through the cavity (controlled parameters will be air flow, air temp.)
- Load cell weighing system



Continuous data logging system to generate drying curves.

ii) Fab academy 2018 : Students were busy doing various assignment viz.Input devices , output devices , Networking and communication, electronics and programming. Students tried flexible PCB. They soldered and programmed these boards and its working fine. You can see current progress of all these students



here: VA Students talking to Neil during review

http://fab.academany.org/2018/labs/fablabvigyanasharm/ iii) Visit and Training:

Yogashree attended 4-days training program on "Designing and Performance Evaluation of Solar a) Thermal Systems" at National Institute of Solar Energy (NISE), Gurugram, Haryana from 10th to 13th April, 2018.

Dr.Arun Dixit and Ranajeet visited Dr.BSKKV Agri b) B.Tech college on 7th April to study various agriculture technologies developed by them.

Ranajeet and Yogesh visited 'Rural Commune' on c) 13th April to guide them in implementation of core support program.

Dr.Yogesh gave Key note talk on 'New concepts d) in Science & technology education' at Warana Science center on 12th April.

Yogesh visited Kolkatta to attend review meeting of e) Micro Solar Dome project on 6th & 7th April. There was solar conference on 7th April. We have explained our technologies to Central minister of S&T Dr.Harshavardhan during the conference.

iv) DIC Intern :

All (9) Agril B.Tech students completed their 4 months training internship. All of them submitted their project works along with working prototypes.

राष्ट्र शासन प्रस्कृत)

Mr.Sandeep Khundanpur & Mr.Mustaafa Poonawala both from SPJIMR (DOCC), Mumbai has completed their 3 weeks internship. They worked on developing business feasibility plan for brown rice, sillage making & inland fish farming for Bhimashankar & Velhe region of Pune district.

F] DIY Lab @ JPNC :

1. Conduct workshop for 10 students of RSM High School. They were introduced with basics of sensors, Arduino board and Arduino programming.

2. Completed documentation of following projects and uploaded on www.learningwhiledoing.in

i) Obstacle avoiding Robot ii) Electronics Piano iii) Line Follower Robot



G] Other tit-bit :

 i) Fab Academy student Chaitanya and his musical band (Surbags) performed on campus on 28th April.

ii) Yogesh participated as Jury for final round of 'Ignited Innovators of India (i2i)' competition organised by Bhau Institute and Eaton India foundation.

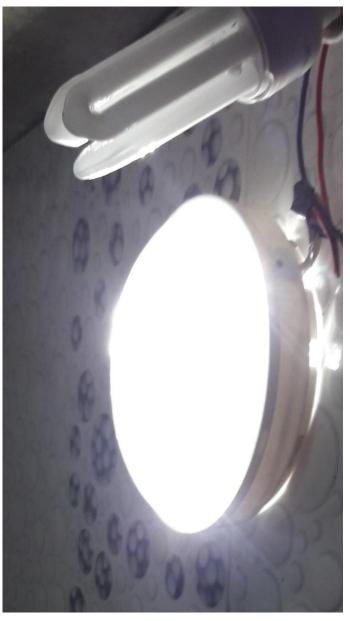
iii) Sidharth Sakore stuck with an idea to use
Micro Solar Dome directly on solar without
battery in our toilet block. Toilet block was a
dark place even during the day. Now we have
6 LED lights powered by solar panel directly.
iv) We are thankful to Mr.Shrirang

Deshingkar, Dr.J.B.Joshi for their financial support to Vigyan Ashram.

v) Visitors to Pabal campus – fig not available ; Website : <u>www.dsttara.</u>in – 863 (New-761, Repeated –102),www.vigyanashram.com – 1133(New visitor –901 Repeated-232) ,www.vigyanashram.wordpress.com –2153 (Visitor- 1432 Viewers-721)

vi) Weather record – Rainfall – 0 mm (Total 882 mm) ,Max temp- 32°C, Min Temp – 22°C , Humidity – 39%, Water height in well – 6.6 mtr .

vii) Energy consumption record- Electricity unit – III Phase- 1340 unit, I Phase- 1047 unit. Quality of power: Number of interruptions:



72, Normal voltage: 62 %, No supply: 0 %, low voltage: 7 %, high voltage : 0%, No data: 0%;

viii) Two wheeler usage : Not available kms

ix) Biogas consumption – Dung used- 106 Kg, Gas produced- 20 m³.

Data Report : <u>https://drive.google.com/open?id=10VSJeMbkEP5WLR3UkC_lfGtQ6XSNw9pq</u> For Regular update: <u>www.facebook.com/vigyan.ashram.pabal</u> Our sites : <u>www.learningwhiledoing.in</u> , <u>www.dsttara.in</u> , <u>www.vigyanashram.wordpress.com</u> , <u>www.vadic.wordpress.com</u> , <u>https://ruralstartup.wordpress.com/</u>

(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, Fab foundation, Dept of Science & Technology, and many individuals and foundations)

Photo Gallery :



Tomato Sauce made on Scheffler



Yogesh explaining VA technologies to Dr.Harshwardhan , Minister for S & T



Status of hostel construction



IBT stall for PMs visit



VTP Food processing Examination in progress



DBRT students engaged in Practical at new hostel building.