

# Vigyan Ashram Status Report

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## A] Graduation of DBRT 2021-22

Academic year 2021-22 concluded on 25<sup>th</sup> June with graduation ceremony of Diploma in Basic Rural Technology (DBRT) batch. Total 51 students completed their DBRT course. DBRT students Prasad Aradhya secured first rank, Ramu Sagane won 'Best DBRT student award' and Keshav Sapate won award for providing 'Maximum Community Services'. Keshav earned Rs.7984 during his course. Out of 51 students, 37 students got placement in metal



fabrication (18), Electrical fitting/Solar (15), food processing (2), Agri (3). Remaining 14 students want to pursue higher education or other plans. Short Video of DBRT 2021-22 activities on <https://youtu.be/IHEeuXrxhls> Ms Deepali Bhagwat, Volunteer from ASHA for Education visited Vigyan ashram on 7<sup>th</sup> June as a part of annual site visit. Deepali interacted with DBRT students on their learnings, future plans etc. and met students placed for internship at Pabal & Kendur village.

We are very thankful to ASHA for Education, EATON Foundation, Durga Devi Trust, SPA Foundation & many individual donors for supporting DBRT program.

## B] DBRT admission 2022-23

We have started promotion for new DBRT batch. We are trying to reach most deserving students by following ways : i) We have send e-mailers, whatsapp messages to all our contacts ii) We have visited NGOs in tribal and remote areas and conducted information sessions for potential students. Vishal visited Pragati Pratishthan (Jawhar), Seva Sahayog (Bhoisar), Girivanvasi Pragati Mandal (Talasari), YMC (Panvel) from 5<sup>th</sup> to 7<sup>th</sup> June & 22<sup>nd</sup> to 23<sup>rd</sup> June iii) We have also tried social media campaign on Facebook.

Newspaper Sakal published news of DBRT course on 18<sup>th</sup> June. Similarly, all leading newspaper Maharashtra times, Loksatta, Sakal etc published short information about start of admissions for DBRT. With all these efforts new admissions are picking up the pace and we are set to start new batch from 10<sup>th</sup> July.



## C] IBT updates

i) L&T Infotech is supporting IBT program in 36 schools. Five days training of all instructors was organized in batches at Vigyan Ashram from 27<sup>th</sup> June to 9<sup>th</sup> July 2022 June at Pabal. Instructors were introduced with new technologies. They were also introduced with design-thinking approach. We are hoping to see new projects in IBT schools based on this training.

ii) 20<sup>th</sup> June: Online review meet to review IBT program activities was held with LTI CSR team. Meeting was attended by Mr. Pratyush Kumar Panda (Head sustainability & CSR), Mr. Wasim Shaik Manager (CSR & Sustainability) from LTI CSR initiative.

ii) A school headmasters & coordinators meeting was held on 14<sup>th</sup> June at Adarsh Vidyalaya, Talegaon. Meeting was aimed to introduce IBT program implementation strategy for 10 newly selected schools to implement IBT program with the Schaeffler India CSR support (Stars forum). Meeting was conducted by Mr.Akshay Mudholkar (Schaeffler India), Mr.Sachin Punekar & team from Vigyan Ashram.

iii) Mr.Sachin & Mahendra along with Ms. Shradha Karhadkar and Mr.Chaitanya Halbe (MAHLE Engineering Services India Private Limited) visited 4 IBT schools in Ambegaon and Junnar block on 23<sup>rd</sup> June. Visit was aimed to understand IBT program in schools & assess financial needs of the schools for effective implementation.

iv) Students of 9th class @ Nagaj IBT school prepared 2000 saplings of Karanj tree for sales & plantation. These sampling will be ready in next 2 months.

### **IBT Uttar-Pradesh updates (Stars forum)**

i) Schools in UP are on summer holidays. Team of instructors & field coordinators worked on annual activity planning & content development. Orientation training was conducted for newly joined staff members from 6<sup>th</sup> to 9<sup>th</sup> June at Pabal. Training was attended by 5 new staff members from Uttar-Pradesh & Maharashtra state project.

ii) Team is also working on designing hands-on activities in line with UP secondary school text-books.

iii) A project review meet was conducted on 14<sup>th</sup> June in online mode. Meeting was attended by officers from UNICEF, Department of Education and Department of Labour. IBT activity schedule, instructor recruitment & training, enrolment of students etc issues were discussed during meeting.

## D] Entrepreneurship Development Program (EDP) update:

i) A webinar on 'Bio-floc fish farming technology' was organized on 10<sup>th</sup> June. It was attended by 22 farmers associated with Sankalp Pratishthan (Sindhudurg) from Konkan region. Objective of the webinar was to create awareness among farmers about high density fish farming technologies.

ii) Yogesh Onkar visited 'Abhinav Dairy Farm' to learn more on milk production & processing. Yogesh onkar also provided enterprise registration support to 5 budding enterprises (Udyam Certificate-2, FSSAI Licence-2, Shop Act-1)



iii) Geranium cultivation & oil extraction: Training on geranium farming & oil extraction was conducted on 18<sup>th</sup> & 19<sup>th</sup> June. Training was attended by 5 farmers from Pune, Nasik and Sindhudurg district to learn practical skills in propagation, fertilizer management, harvesting & cultivation & oil extraction of geranium. Expert farmer-entrepreneur Mr. Sagar Khebade & Mr. Hrushikesh Mali (Chimbhut, Pune) and Dr. Arun Dixit guided participants on technical aspects of enterprise.



Visit to Geranium oil extraction plant

iv) Sliding window fabrication: Hands-on training on 'fabrication of sliding window' was conducted on 29<sup>th</sup> & 30<sup>th</sup> June. Training was attended by 13 entrepreneurs including

IBT school instructors to learn various aspects like type of windows, measurement, selection of materials, fabrication & installation of windows etc. VA DBRT alumni & entrepreneur Vaibhav Rahane conducted practical sessions while Yogesh Onkar guided participants on business model of the enterprise.

v) Yogesh Kulkarni visited DBRT alumni Mr. Hiren Panchal on 7<sup>th</sup> June @ Dharampur (Gujarat). He is fabricating small agricultural tools through his enterprise M/s Mittidhan <http://www.maatidhan.com/>. Yogesh Kulkarni also met DBRT alumni Chaitanya @ Dharampur. He is running a camping, trekking and sports business.

#### Hero of the Month:

- Mrs. Savita Jadhav started 'Krishna goat farming' unit at Pabal, Tal-Shirur. Dist.-Pune. We are giving technical & Mentoring support through EDP program.
- Mr. Rahul Thorat started 'Edib-insect Argo Industries' for cultivation & processing of Black Soldier Fly (BSF) at his native place Narayangaon (Dist.-Pune). We are providing him technical support under EDP.



Rahul : Black soldier fly

#### EJ Technology development & Design Innovation Centre (DIC) updates:

i) Grey water recycling system @ Dingrajwadi: Prasad completed installation of solar PV module, sludge pump, aerator system along with Variable Frequency Drive (VFD) based electrical connections. DBRT students helped him in installation. Due to cloudy weather, we were not able to conduct live trial of system in this month.



ii) Sanitary pad Incinerator: Purnesh completed fabrication of 'sanitary pad incinerator' with installation of gas burners, LPG piping, ignition coils, safety valves and hood enclosure. Fabrication took more time than expected since we have to design & manufacture special flanges for connecting LPG piping to gas burners. System is ready and tested in manual mode. We are struggling with some issues in automation of ignition system.

iii) Sonal conducted farmers awareness program at Pipalwadi & Wadgaonpir village on 21<sup>st</sup> & 25<sup>th</sup> June. Both programs were organized in collaboration with Srinivas Service Trust (SST) to help farmers in better planning of 'kharif' season. A 'soil health cards' were distributed to 38 farmers along with demonstration of seed treatment, composting technologies.

iv) Akshada started Effluent Treatment Plant (ETP) water analysis work for ASK Chemicals (Ranjangaon). Aim of the project is to develop methodology to reduce Total Dissolved Solids (TDS) of ETP water. She tried three treatment methods: Oxalic Acid, Lime and Hydrogen Peroxide for TDS reduction. Apart from this, Akshada & Ayesha tested 26 soil samples from farmers & prepared 80 lit agro-waste & 50 lit urban-waste composting culture.

v) Students' internship updates: In June, total 29 students completed their internship. Details are as follows :-

B.Tech (Final year Agri Engg) – 15 students for 4 months ; B.Tech (third year Agri Engg) – 9 students for 1 month ; B.Voc (food technology)- 4 students for 2months ; B.Voc (renewable energy) – 1 student for 2 month. Work done by interns during their internship can be found on- [Members and Projects | DESIGN INNOVATION CENTER \(vigyanashram.blog\)](#)

vi) Fab lab for tribal area: New team members joined Fab lab. They are Sanjay Surage (B.E. Mechanical), Rohit Mankar (B.E. Electronics) and Sumit Thakare (B.E. Mechanical). They will work as lab managers at Narmadalaya, Palghar & Pabal respectively. Shankar & Onkar also joined as lab technician. All newly appointed staff members underwent their fab lab operations and induction training at Pabal from 1<sup>st</sup> to 30<sup>th</sup> June. They learned skills in use of digital fabrication equipment's, basis of electronics, soldering, programming etc.

Equipment's for Fab lab setup were ordered. We are expecting delivery in the first week of July.

#### F] Fab-academy course update:

Fab-Academy students completed their course work this month.

Students gave their final project presentation to Dr.Neil Gershenfeld in global class sessions on 13<sup>th</sup> & 15<sup>th</sup> June. Their completed project & assignments can be viewed on following link -

Student name	Project title	Assignment / project - blog link
Vrushabh Zunjurkar	Sanitary pad incinerator	<a href="https://fabacademy.org/2022/labs/vigyanashram/students/vrushabh-zunjurkar/final_project.html">https://fabacademy.org/2022/labs/vigyanashram/students/vrushabh-zunjurkar/final_project.html</a>
Kishor Gaikwad	Smart onion spoilage control system	<a href="https://fabacademy.org/2022/labs/vigyanashram/students/kishor-gaikwad/assignments/finalproject.html">https://fabacademy.org/2022/labs/vigyanashram/students/kishor-gaikwad/assignments/finalproject.html</a>
Kiran Waghchore	Rakshak Belt	<a href="https://fabacademy.org/2022/labs/vigyanashram/students/kiran-wakchaure/final.html">https://fabacademy.org/2022/labs/vigyanashram/students/kiran-wakchaure/final.html</a>
Devesh Nair	Solar dome dryer airflow controller	<a href="https://fabacademy.org/2022/labs/vigyanashram/students/deveshs-nair/project.html">https://fabacademy.org/2022/labs/vigyanashram/students/deveshs-nair/project.html</a>
Fenil Chandarana	Drip Irritation	<a href="https://fabacademy.org/2022/labs/vigyanashram/students/fenil-chandarana/#about">https://fabacademy.org/2022/labs/vigyanashram/students/fenil-chandarana/#about</a>
Jaydeep Parejiya	Safety Switch	<a href="https://fabacademy.org/2022/labs/vigyanashram/students/jaydeep-parejiya/20-Final%20Project.html">https://fabacademy.org/2022/labs/vigyanashram/students/jaydeep-parejiya/20-Final%20Project.html</a>

Local instructors are evaluating their work and if found satisfactory, they will be sent for global evaluation.



**Kharip preparation meeting**



**Fab lab Training**

### G] DBRT students campus activities:

DBRT students completed internship assignments & busy in completing their course work, projects & last-minute submissions. Students' final theory & practical examination was held during 22<sup>nd</sup> to 24<sup>th</sup> June. Following are some of the highlights –

- Energy & Environment section: Students installed a 1 HP submersible water pump along with electrical connection at new recreation center. They also did regular electrical maintenance work while repairing switch boards in hostel, fixing LED tubes and overhauling of DG set. Students earned community service of Rs.5370.00.
- Workshop section: Students practiced brick laying skills while constructing a ramp for recreation unit. Laxmi, Keshav, Ramu and Soham completed Solar PV installation work for grey water recycling unit at Dingrajwadi village.
- Home & Health section: Students prepared Tamarind sauce 5 kg, Chikki – 3 Kg, Ladu 0.5 kg
- Agriculture section: Agricultural activities were started on the on-set of monsoon. Students learnt land-preparation, seed treatment, sowing method etc skills while sowing of soyabean (15 kg), Black-gram (5kg), Bajara (10 kg) in field. We also have new addition of 4 new got kids (2 buck & 2 does) while 1 old buck was sold out at Rs.25000/-



Asha for education Volunteer Ms Deepali Bhagwat's visit

### H] DIY Lab (Pune) and Atal Tinkering lab (ATL) support:

#### Do-it-Yourself Lab:

- We have adopted 2 ATL labs near Pune, Nageshwar Vidyalaya (Patas) and Vishnuji Shekuji Satav High School (Wagholi) for mentoring under Institute Innovation Council (IIC) Ministry of Education (MoE) initiative.
- Prathmesh presented DIY Lab initiative & activities to Secondary Education officer of Maharashtra State Board of Secondary & Higher Education on 27<sup>th</sup> June. We have proposed to introduce these activities in Pune Municipal Corporation (PMC) Schools.

**ATL @ Andra-Pradesh:** Team conducted project identification workshops in 5 ATL labs in Zilla Praishad High Schools (ZPHS) @ Movva, Ipura, Mopidevi, Cherukupalli and Nidamanuru during 2<sup>nd</sup> June to 1<sup>st</sup> July 2022. Each workshop was of 5 days duration. Students in schools were asked to visit places outside schools and interact with community to identify problem statement, ideate for technology application and design solution as their academic project.



**I] ASTI – Distance Learning Library & Wikipedia updates:**

- First draft of video of ‘Paver Block Manufacturing training’ was received from Video editor. We are reviewing the content and getting feedbacks from subject expert.
- Vaishali Kanaskar & Ranajeet completed content writing for 4 modules of ‘Biofloc fish farming’ enterprise.
- Marathi Wikipedia update: Wiki team completed scanning of 8 books (1620 pages) of author Mr.Suresh V Mahajan.

**J] Other tit-bit:**

- We are thankful for in-kind donation of 12 CPUs (monitor, keyboard, mouse) and 2 Server drives form SBI Life Insurance Co. Ltd on 9th June. These computers will be used for training of DBRT & other short-term students.
- Yogesh Kulkarni visited ARCH (Dharampur, Gujarat) and Swaraj Ashram (Bardoli, Gujarat) on 8<sup>th</sup> June. Yogesh gave a talk at Regional co-ordination institutions orientation program on 9<sup>th</sup> and 10<sup>th</sup> June at NIT,Surat.
- Weather record – Rainfall of the month - 88.63 mm (Total: 88.63 mm), Max temp- 34.00°C, Min Temp –21.00°C, Humidity – 76%, Water height in well– 8.05 M.
- Energy consumption record- Electricity unit – **Yogesh visiting VA alumni Hiren (Mittidhan, Dharmpur)** III Phase -399 unit, I Phase import- 75, Solar generation-1922. DG used – 04.00 Hrs.
- Animal Husbandry section update – Milk production –428 Kg, Poultry – NA, Goat- New buck of Boer breed purchased.
- Biogas produced-26.37 M<sup>3</sup> (Dung used- 659Kg), E-rikshwa uses- 206 Km (one vehicle is under maintenance), Water purchased- Rs.12250 (0.7 lakh litre)
- Online visitors: [www.dsttara.org](http://www.dsttara.org) – 948 (New visitor-828, Repeated-120), [www.vigyanashram.com](http://www.vigyanashram.com) – 1613 (New visitor-1245 Repeated-368)



News in Sakal news paper

**K] Data Report:** [shorturl.at/BPQS8](http://shorturl.at/BPQS8)

(Work of Vigyan Ashram, Stars forum and VATF is supported by Asha for Education, Praj foundation, EATON Foundation, L & T infotech, SPA Education Foundation, UNICEF, TATA Technologies, Schaeffler India Pvt Ltd, Mahle Engineering Services Pvt Ltd, INDUSA Endowment, Govt of Chhattisgarh, Savitribai Phule Pune University, Suzlon foundation, Dept of Science & Technology, and many individuals and foundations)

**Photo Gallery :**



Sowing Soyabin



Farm tank cleaning work



Construction practical : Preparing otta



Agri intern completed their 4 months training



Intern completed their one months training



Purnesh and Vrushabh : Incinerator project



Fab Academy batch 2022



DBRT Graduation ceremony

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