

Vigyan Ashram Status Report

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- Update on Modernization of Agriculture Training Centre
- Arrival of Monsoon ! Water difficulty eased .. agriculture activity started
- Pooja attended SAARC Wiki conference

A] DBRT Graduation Day : 25th June 2019

Academic year 2018-19 got completed on 25th June 2019. Annual graduation ceremony was held on 25th June 2019. DBRT and Fab Academy students got their Certificates in the program. Total of 36 DBRT students out of 52 and 5 Fab Academy students completed course successfully. Remaining will complete in the due course.



Mr. Ajikya Kachate awarded as 'best DBRT Student' and Ghansham Bande as 'Best academic project' award while Rajesh Kasar got award for 'highest community service'. He earned Rs.24189.00 during academic year. These students got job in various field viz. metal fabrication, plumbing, motor rewinding, hospitality etc. Video presentation of memories of DBRT 2018-19 is available on <https://www.youtube.com/watch?v=y66j7dqeyrA>



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B] **Modernization of Agriculture Training Centre project (BAJAJ CSR)** : Following activities are completed this month.

- **Polyhouse construction & aquaponics system** - Work of UV stabilized polyfilm fixation, water drainage gutter fixation completed during June. The work of building new aquaponics system also started with the excavation & plastic paper lining of fish tank. We are expecting to start new aquaponics trial from July month.
- **Grey water system** – Grey water system for kitchen drainage line is established as per plan. This system is



Polyhouse structure with polyfilm fixation work

2019-06-19

treating 500-800 lit / day & suppling for fodder cultivation plots. Work started on installation of grey water system at new boys hostel. This system comprises of reed beds (recycled IBC tanks) of 3000 Lit connected through siphon-based water circulation to 6900 lit storage tanks with air bubbling.

- **Tissue culture lab** – Modification of Interior work started with the construction of necessary partition as per design. Order were placed for laminar flow, BOD incubator, glasswares etc.

C] Welcome monsoon rains:

Pabal got first monsoon shower on 10th of June. During month of June we received very satisfactory 200.33 mm rainfall. This has eased water shortage to the larger extend. Our well got water.

We have started agricultural activities. On 25th June, Jawar sowed on 2.5 Acre area similarly we also planted brinjal, chilli and coriander on 2 Gunta land.



Sowing of Jawar with on-set of monsson rains

D] Project Titlee & DBRT Updates:

- Project 'Titlee'**, an initiative for promoting creativity among girls & housewives by utilizing waste fabric & advanced digital sewing equipment. Project is initiated with the support of fashion designer Ms Apoorva Pawar. Harshada will lead project in textile lab.

We have enrolled 10 women interested in working on the project from Pabal village. They will work on producing various soft toys from waste fabric using advanced sewing & fabric designing tools.



- DBRT students were busy in completing their course work & last hour submissions.

Following are some of the important highlights of their work-

- DBRT workshop department students Dada Zite , Parmeshwar Mitkari & Tejas Dhadave fabricated a polytunnel of 62.72 m² at Chikhali IBT School. This polytunnel is a part of aquaponics farming system. Total community value earned from this work was Rs.17255.00 including Rs.3500 as fabrication charges.

- Electrical department student Swapnil Pawar & Prathmesh Borase fabricated an electrical panel box using plasma cutting and fixed it with necessary electrical connections. Total value of community service earned was Rs.16710.00. They earned Rs.3345.00 as labour charges.
- Mr.Ashok Kalbag donated treadle pump to VA. DBRT agricultural department students installed & trial tested a treadle and hand operated water pump. These pumps are of ecoflow (<http://ecofloindia.com>) make and capable of pumping water from 15 Ft depth @ 20 to 30 LPM flow rate.
- Mr.N. H. Atthreya, a pioneer of modern management movement. licensed his 25 books to upload on wiki media commons and Wiki source. VA Wiki team will be completing task of scanning, making OCR and uploading of books.
- Ms Pooja Jadhav participated in the Wikimedia Education SAARC conference. She was selected to participate in the conference held at Christ University, Bangalore from 20th – 22nd June.



E] Technology development, DIC & Fab Academy progress:

- Sunny Bansode designed & fabricated a silage bag compacting machine. It's a manual operating press for filling silage bag with capacity of 15-20 Kg / press. This machine is designed for small dairy farmers (1-2 milch animals). We are planning to test its applications in tribal belt of Rajgurunagar area in collaboration with Medicinal Plant Cultivation & Conservation Trust (MPCCT) Pune.
- Shubham Shembade completed fabrication of 'Society Composter'. This composter is of 150 Kg / batch capacity with automated (forward-reverse rotations) of 1 Hp single phase motor drive. This composter will be useful for larger housing societies (100 and above individual houses). We will have field trials of this composter in Pune city under La-Foundation supported project.
- DIC interns updates:
 - Rupali Saini (Symbiosis design School) completed her one-month internship assignment on 'Designing of curd maker' project.
 - 10 Agricultural B.Tech intern students completed their 1 month summer internship training during June. They learnt basic designing & fabrication skill while completing their internship in DIC.



- Fab Academy 2019 batch concluded with final project submission. Out of 8 students 5 submitted their final project presentation. Following are details of their projects-

- Miss. Aditi Kharade - Project: Smart key holder

(<http://fabacademy.org/2019/labs/vigyanashram/students/aaditikharade/Final%20Project.html>)

- Miss.Pooja Jadhav - Project: Dam water Level indicator, (<http://fabacademy.org/2019/labs/vigyanashram/students/poojajadhav/Assignments/final%20Project.html>)

- Tushar Kukreja- Project: Smart data logger

(<http://fabacademy.org/2019/labs/vigyanashram/students/tushar-kukreja/presentation.png>)

- Jaydeep Sarode – Project: Grey water pump monitoring system (<http://fabacademy.org/2019/labs/vigyanashram/students/jaydeep-sarode/presentation.mp4>)

- Hemang Vellore – Project Solar water cooler

(<http://fabacademy.org/2019/labs/vigyanashram/students/hemangvellore/presentation.mp4>)



Tense Movement! FabAcademy final presentation

- Entrepreneurship News : Agrowon newspaper published information about our alumni entrepreneur in 'Gramin Udyojak' series. Article of VA alumni's Sachin Lokhande (2017-17 DBRT instructor) and Dattatrye Chaudhari (2015-16 Electrical) was published on 17th & 3rd June respectively.

F] IBT Update- IBT School activities has geared up after summer vacations. Following are important update from IBT Schools:

- D.N.P.Vidyalay, Chikhali school has started a project on aquaponics. This will be first of its kind project in IBT program. Installed system will have 2.5 lit fish tank with 62 m² polytunnel with hydroponically cultivated tomatoes. Project is financially supported by VA incubated company M/S NISARGAYAN KHET SOLUTIONS Pvt Ltd.



Aqaponics setup at IBT Chikhali School

- Meeting on Impact evaluation of IBT program was held at L&T infortech Ltd Shivajinagar office with Mr. Wasim Shaik, CSR Manager, Pune on 21st June 2019. We have appointed M/S Chhaya Strategic Advisors LLP for conducting impact assessment of IBT program.
- IBT students in Adarsh Prashala, Ghatnandre (Dist- Sangli) learned basics of plumbing techniques in their workshop department while providing new water line connection to villagers.
- Students of Hutatma Umaji Naik Vidyalya (Bhivadi, Dist-Pune) prepared and sold 20 liter of phenyl against order form community.
- Bhandari High School (Bhandari, Dist- Malvan) planted marigold flowers (72 samplings) by targeting a market of Ganesh Festival in Sep 2019.
- Sachin Puneekar visited IBT schools in Dantewada and Bijapur district (Chhattisgarh state) to take review of program. He met educational departments administration to understand their views on program implementation. He also visited Karli (in Dantewada) & Matwada (Bijapur district) IBT schools to take review of IBT section activities. The IBT program started in some of the schools at Bijapur district.

G] DIY Lab Update :

- REDx club activities are in progress. Members are working on making AI control systems for Biogas plant. They are working on sensor programs and its calibration this month. They also visited BAIF , Waraje campus on 1st June.
- Parents meeting for DIY lab for next academic year was held at DIY Lab on 15th June.
- Students of Door Steps are regularly coming to lab and enjoy making 'Things!'.
- Please visit below links to see progress :

<http://vigyanashramredx.wordpress.com>

<https://diymakerspace.wordpress.com/events/>



Students of DIY lab with laser cutting activities

H] Other tit-bit –

- i.* Management committee meeting was held on 2nd June at Pabal. Meeting was attended by Mr.Ashok Kalbag, Mr.Vijay Kumar, Mrs.Anjali Chipalkati, Mr.Mahendra Rajgude,Dr.Suhas Altekar,Dr.Prakash Salvi & Dr.Yogesh Kulkarni. DST core support project, review of project in progress were taken and administrative and financial decisions were taken.
- ii.* Meeting was conducted with Dr. J B Joshi @8th June at Kelkar sirs farm to discuss dissolved oxygen enrichment, nitrification, energy balance of system for grey water treatment & aquaponics projects.
- iii.* The Anantya Zamir Fellow Ms Achalika Ahuja and her mentor Mr.Dev Tayade visited VA on 24th June to understand VA program and philosophy.
- iv.* Interviews for Educational project coordinator project was held at Pabal and Pune.
- v.* Weather record – rainfall of the month -200.33 mm ,Max temp-34.47°C, Min Temp – 23.60°C , Humidity – 68.26 % , Water height in well – 7.5 Meter.
- vi.* Energy consumption record- Electricity unit – III Phase -973 units , I Phase Export- 114 units, Import- 1328 units. Quality of power : Number of interruptions :181, Normal voltage : 46.24% No supply : 30.10%, low voltage : 13.52%, No data: 10.14%.
- vii.* Biogas consumption – Dung used- 00 Kg, Gas produced- NIL
- viii.* Two wheeler – 254 Km, petrol consumption – NA
- ix.* Total visitors to www.vigyanashram.com – 1416 (New visitor – 1055 Repeated-275) www.dsttara.in : Total Visitors: - 967 (New visitor –846 Repeated- 121)

Data Report: https://drive.google.com/open?id=1bheofmTQOkMtFAng_EgPU9nCJ99aPEKV

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Photo Gallery:



DBRT : Evening activities



DBRT students learning pipe threading



IBT Matwada (Bijapur, Chhattisgarh) Porta cabin 'Hydroponics fodder' demo unit



Tree plantation drive by IBT Dhamari School



FabAcademy student 'Hemang' with assignments



Agril Btech students with internship completion certification

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