

# Vigyan Ashram Status Report

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### **A] Inauguration of Design Innovation Center (DIC)**

New workplace for DIC was inaugurated on 20<sup>th</sup> March at the hands of Dr. Neil Greshenfeld (Director, Center for Bits and atom, Massachusetts Institute of Technology (MIT), USA.

The ceremony was attended by Trivendrum Fab Lab, COEP-Fab lab, Tata center, RiIDL Fab labs and various makers' spaces. Secretary, RG S&T commission, Govt of Maharashtra and

representatives from various industries attended the function.

BCUD Director Dr. Gaiwad, Dr. Dhavale, Sarpanch of Pabal village were chief guest of the program. It took 80 students to complete the building in 18 months' time at the expenses of @ Rs.33 lacs. We have shown small film on how building was made during the function. [https://www.youtube.com/watch?v=r3X\\_9giYojk](https://www.youtube.com/watch?v=r3X_9giYojk)

We took this opportunity to thank Asha for Education, Readers of Loksatta and INDUSA Endowments for supporting the cost of construction. Ms. Jyoti Gawade from Asha for Education-Seattle accepted our felicitation on behalf of all supporters. Many newspapers gave coverage to the event.



<http://epaper3.esakal.com/17Jan2016/Normal/PuneCity/Pune1Today/index.htm>

The program was organized at very short notice and it was a great show of team work by all team members and students of Vigyan Ashram !

**B] Entrepreneurship Development Training Program :** Through the support of National Science

and Technology Entrepreneurship Development Board (**NSTEDB**), Vigyan Ashram has conducted 4 Days enterprise development training program for 40 aspirants willing to start their enterprise. They were introduced with new technology based business opportunity. The training was organized in collaboration with I-Create (An Organization which provides training in Entrepreneurship Development) from 10<sup>th</sup> to 13<sup>th</sup> March 2016. Candidates made their business plan during the workshop.



Mr. Ram from Rang-De (Micro-Financing Organization) and M. Shivram Krishnan & Mr. Rohit Saroj from Tata Motor visited the training and interacted with the trainee entrepreneurs.

**C] DBRT Update:-**

1) Poultry Trainees from Balarampur completed their three months poultry training on 14<sup>th</sup> March. 13 students completed the course. They also undergone through business development program on 7<sup>th</sup> and 8<sup>th</sup>. Trainees also visited Khadki – Egg hatchery on 4<sup>th</sup> March.



2) Alumni Entrepreneurs: Following of our alumni started their enterprises. We have provided them support through Entrepreneurship accelerator.

- Manesh Thate started Welding Fabrication Workshop.
- Madhukar Chintu malkarni Started Surgarcane Juice Center.

Details are available on [www.ruralstartup.wordpress.com](http://www.ruralstartup.wordpress.com)

3) DBRT Picnic : After hectic work for DIC construction, 27 DBRT students and 4 teachers went on Picnic to historic Raigad Fort on the occasion of Shiv Jayanti. They also visited Harihareshwar, Mangaon, Jejuri etc.



4) One day Yoga Shibir was held on 9<sup>th</sup> March under the guidance of Mr.S.D.Pingale. It is part of DBRT curriculum.

5) WWF send 22 students from tiger buffer zone for one month's training on 'Introduction to basic skills'. Training started on 29<sup>th</sup> March.

6) DBRT students carried out wiring of new DIC building. Total value of community service is Rs.46248/- and students earned Rs.4204/-.

7) Agri dept made 75kg murghas on 17<sup>th</sup> March. Dairy Expenses : Rs.3827/-, Dairy income : Rs.6716, Goat buck service : 10 nos; Poultry : all birds sold : Expenses : Rs.28696/-; Income : Rs.32106/- Profit : Rs.3410/-

8) Food Lab : Amla sarbat (15lits), Amla supari(5kg), potato chips (15kg) ; counter sale : Rs.2795/-

#### **DJ IBT Updates:- i) IBT in Maharashtra:**

i) 3D Printing classes in Gawadewadi was over on 30<sup>th</sup> March, they will be resumed after summer vacation. In last 2 month 107 students learned 3D printing. Watch the video of 3D printing class on: <https://www.youtube.com/watch?v=IhXkeV2yylo>



ii) 360<sup>o</sup> evaluation of IBT school supported by Suzlon foundation was done on 1<sup>st</sup>/ 2<sup>nd</sup> and 21<sup>st</sup>/22<sup>nd</sup> March. Suzlon team visited IBT schools in Sangli and Nandurbar.

iii) 18 schools willing to start IBT program provided help in

applying DVET for starting IBT course.

iv) Gawadewadi, Pargaon and Pokhari school completed their biodiversity register and handed over it to Gram panchayat. Please see documents on

**Gawadewadi:** <https://www.dropbox.com/s/k5wdm4imubwmz6s/1%20Biodiversity%20Register%20Gawadewadi.pdf?dl=0>

**Pargaon:** <https://www.dropbox.com/s/6j2rtnorh2bb9vr/3%20Biodiversity%20Register%20Pargaon.pdf?dl=0>

**Mukhai:** <https://www.dropbox.com/s/svxa7fwdk0z8lhm/2%20Biodiversity%20Register%20Mukhai.pdf?dl=0>

v) IBT program in three schools was inaugurated. The schools are Bori (14<sup>th</sup> March), Chas (14<sup>th</sup> March), Narayangaon (17<sup>th</sup> March). These schools purchased all tools and completed all setup.

vi) L2 – IBT-MSFC revised syllabus translated in Marathi was circulated to all IBT schools.



#### **ii) IBT in Chattisgarh :**

a) CG Team wrote manual of 30 activities in Hindi.

b) We have entered into agreements with local NGO READs in Jashpur to implement IBT program in Jashpur.

c) Order for tools for school in Jashpur is placed.

#### **iii] IBT in Odisha : “Using of Scrap and**

**dissolve darkness”** In front of the kitchen of SSD Govt. high school, Sialati there was no street light. It was decided to take up on this problem as part of IBT activities. Engineering students constructed a pole and energy and environment students did electrical wiring and fitted the tube on the pole. After three days of hard work and spending of Rs. 5700 street light was fitted by the IBT student. They use lots of scrap available.

#### **E] Technology Development -**

i) Four hydraulic – oil extraction machine was dispatched to Sheti Udyog Bhandar.

ii) We are trying to increase the life of grinding rubber in rice deshushing machine. We changed

the rubber to 95% hardness but it results in of heating of the rubbers. We are working on making cooling arrangement.

### iii) BIOMES project

Biome project is progressing with clear difference in growth of Biome (Experimental) plants. Biome plants are growing faster and having higher number of branches as compare to control plants. Dome temperature is maintained by using temp-humidity sensor controlled exhaust fan and irrigation system controlled by using soil moisture sensor.

### iv) Goat farming training-

One day training workshop was conducted on "Advanced fodder production techniques" on 17<sup>th</sup> March. We have introduced advanced fodder technics like 'Azolla cultivation", "Hydroponics fodder", "Dry Fodder treatment" and balance diet calculation technique. Participant were 27 farmers from Pune, Satara, Thane ,Solapur district. Senior goat farming expert Dr.Avinash Deo (BAIF-Pune) was invited as guest lecturer.



v) Soil testing training – One day training workshop was conducted on "Soil analysis and fertilizer dose calculation" on 12<sup>th</sup> March. This training was held in collaboration with KVK Narayangaon at KVK campus. The aim of the training was to promote 'Soil Analysis and Bio-fertilizer' technologies as 'rural enterprise'. Training comprises detailed information on soil sampling, analysis methods, preparation soil health card and use of bio-fertilizers for soil improvement. Training attended by 33 participants including farmers, IBT instructors and NGO representatives from BAIF, ARTI-Phaltan, MPCST-Pune, SST-Shirur.





vi) New tractor and tool-sets was purchased on 10<sup>th</sup> March. It is Mitsubishi Make, 22 HP powered, 4 wheel drive. We also purchased soil rotter and trolley / plough attachments. Beside our own farm operations, we are planning to start course on 'tractor operator & overhauling'.

vii) New Packaging machine – New automated pouch sealing machine with nitrogen (N) flushing provision is purchased for "Food processing" department. This machine will help in increasing shelf life of processed food products by flushing nitrogen gas in food packets.

#### **F] Design Innovation Center (DIC) update**

a) DIC purchase

1. Soil Analysis instrument - New soil analysis equipment (kit) is purchased for 'Soil Micro-biology' department.

This equipment is developed by ICAR and commercialized by Nagarjuna Fertilizer Pvt Ltd under brand name of 'Mridaparikshak' lab. This kit is capable of providing digital analysis for 10 soil elements (parameters) as that of pH, EC, Organic carbon, N, P,K , Boron, sulphur, Zink and Iron. The kit has also in-build software to provide fertilizer dose recommendation for selected crops.

2. Diesel generator : New 10 KVA diesel generator (Kirloskar make) with canopy is installed on 17<sup>th</sup> March.

3. Polyhouse farming unit – Construction work of new polyhouse farming unit is completed. This new facility is having 500 m<sup>2</sup> cultivation area and micro-irrigation facility.

4. Three CCTV camera's were installed on 12<sup>th</sup> March

5. A MOU is signed with Bhagwan Mahavir Vikalang Sahayak Samiti, Jaipur to develop low cost prosthetic hand solution. Suhas and Prashant visit Jaipur from 26<sup>th</sup> – 30<sup>th</sup> March to understand processes used for Jaipur foot.

#### **G] TIED (Supported by Praj Foundation) fellows progress**

Phuleshwar Ram completed his fellowship tenure in March. He learnt motor re-winding and basic mobile repair skills. He also earned Rs.13500.00 community service and Rs.15000.00 saved from fellowship during his 5 months fellowship tenure. He returned to Balarampur (CG) to start his start his "Motor re-winding service shop".

## HJ Other tit-bits

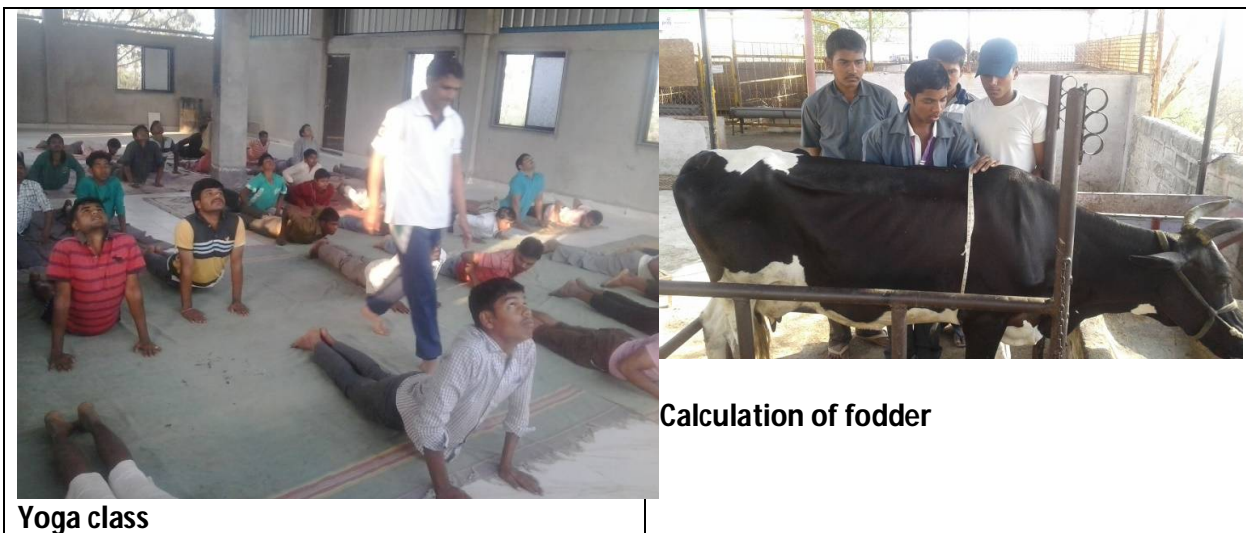
- i) Visitors to VA : 269 people visited VA in March. Plus @ 200 people attended inauguration of DIC building on 20<sup>th</sup> March
- ii) Donation to VA : We are thankful to all donors for their contribution and support.  
KCL KNOWLEDGE FOUNDATION, PARAMHANS GANESHJI CHARITY TRUST, SPA EDUCATION FOUNDATION
- v) Weather record – rainfall of the month – 0mm, Rainfall YTD – 480 mm, Max temp-36°C , Min Temp – 18°C, Humidity – 87% , Water height in well – 6.29 M
- vii) Energy consumption record- Electricity unit – Three Phase - 1295 KWH, Single Phase – 677 KWH , Quality – No. Of interruption- 146 ( 47.55 hrs), Normal Voltage - 91% High Voltage- 1.52 % Low voltage- 0.29 % No Supply-6.44%
- viii) Diesel consumption for generator- 0 Lit , Two wheeler running- 47kms
- ix) Biogas consumption – Dung used- 868 Kg, Gas produced- 38 m<sup>3</sup>
- xi) Online visitors - [www.learningwhiledoing.in](http://www.learningwhiledoing.in) –New- 601 , Repeated –134,[www.dsttara.org](http://www.dsttara.org) – New-1189 , Repeated –356,[www.vigyanashram.com](http://www.vigyanashram.com) –New-1438, Repeated – 459,[www.vigyanashram.wordpress.com](http://www.vigyanashram.wordpress.com) – Visitor –1083, Viewers-2798.

## Data Report Link-

<https://drive.google.com/file/d/0B5g18a0IbI4Mb1RIVW02Y0JsYms/view>

(Work of Vigyan ashram is also supported by Asha for Education, INDUSA, UNICEF, Govt. Of Chhattisgarh, Lend-a-hand-India, Suzlon foundation, Megger (I) Pvt Ltd, Eton (I)Pvt Ltd, Dept of S & T , RGSTC, Praj Foundation and Many Individuals and foundations)

## Photo Gallery:





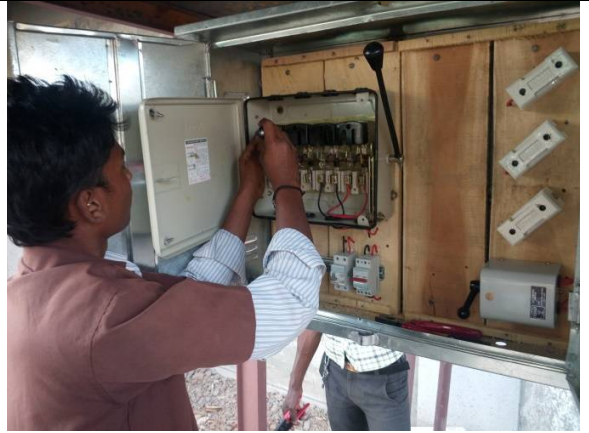
Retrofitting of glasses of Scheffler concentrator was done.



Scheffler with new glasses fitted on it.



360° review visit : Tilai IBT school



Electrical wiring of DIC building



3D printing @ Gawadewadi

**माती परीक्षण आता आपल्या गावात..**

**फायदे**

आपल्या गाळेत  
आय.बी.टी.  
उपकरणांमार्फत  
माती परीक्षण  
करून मिळेल



फक्त चार  
तासांत रिपोर्ट  
आणि,  
पिकासाठी खताचा  
डोस काढून  
मिळतो.

खर्च  
फक्त  
₹२०/- च

१. पैशाची बचत होते, कोणते खत किती प्रमाणात वापरायचे हे कळल्याने उत्पादन खर्च कमी होतो.
२. रासायनिक खताचा वापर थांबल्याने जमिन सुपीक होते.
३. उत्पादनात वाढ आणि आर्थिक सुबत्ता येते.



विज्ञान आश्रम पाबल



praj foundation



SUZLON

माती परीक्षणासाठी संपर्क - निदेशक शेती पशुपालन विभाग मो. ९७६६४९०६९९/९०९६०६९३९८  
शाळेचे नाव - संगमेश्वर माध्यमिक विद्यालय पारगाव, ता. जांबेगाव, जि. पुणे.

For regular update : <https://www.facebook.com/vigyan.ashram.pabal>