

Vigyan Ashram Status Report

Volume 36 Issue 2

Feb 2018

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A] DBRT Course activities at its peak

Diploma in Basic Rural Technology (DBRT) program is one of the core program of Vigyan Ashram. DBRT students completed almost 3/4th of their course duration. They will be completing their course in June. DBRT program is supported by Asha for Education, Eaton foundation, SPA Education foundation and

many other individual donors. Students are busy taking contract orders based on the skills learned in the earlier section. They are also busy in completing project work and various assignment. Here is a look at the DBRT activities in Engineering and Electrical in this month.

DBRT students in Engineering Section:

- Tejas, Suraj and Omkar made two shovels and 4 boxes for poultry using plasma CNC cutting machine.
- Omkar, Nikhil and Nilesh installed float ball valve to water tank.
- Rutvik, Uday, Suraj repaired four sitting stools in kitchen.
- Mahesh and Suraj



Clockwise : DBRT picnic, Tank for leakage water, Goat farm compound, Ramp for school,

designed, vinyl cut and installed signage board " NO PARKING" at VA entrance.

- Akash, Chintamani, Prathamesh, Omkar took a contract from Deaf and Dumb school in Pabal to construct a ramp. The work was completed in 4 days.
- DBRT students Omkar, Nikhil, Rutik, Suraj, Mayuresh completed compound of goat farm of 'Muk Badhir Vidyalaya' in Pabal.
- DBRT students Nikhil, Mahesh, Omkar, Suraj, Uday constructed ferrocement tank for collecting leakage water of Gram Panchayat Pipeline valve.

DBRT students in Electrical Section :

- i) Students installed 5 CCTV camera in campus and learnt installation and connection of CCTV camera on 14th and 15th feb.
- ii) Kitchen filter board was repaired by Suraj and Dhanajay on 18th feb
- iii) Students done wiring of total 20 electric point wiring at various places in ashram as part of their training.
- iv) DBRT students exhibited their projects at GMRT – khodad on 28th Feb and 1st March. This exhibition was organized on the occasion of science day. 3 students and 1 teacher represented VA on our stall.

c] DBRT and DIC students went through IQ and behavioral test on 18th Feb. It was undertaken by councilor Mrs Rohini Achawal and their students.



CCTV installation

d) DBRT students on Jungle Trek : 31 students and 4 teachers went for trekking on 22nd and 23rd Feb. They started their trek from Bhorgiri, climb upto Bhimashankar and came down to Sahyadri school. They cooked their food on trek. Students also collected lots of plastic and water bottles left by other tourists from the jungle.

B] IBT Updates:

i) One day workshop for IBT school coordinator of L&T supported schools was conducted at Pabal on 8th Feb 2018. Total 15 school coordinators from 15 schools participated in this workshop. Objective of the workshop was to introduce school coordinators to their role and responsibilities, record keeping, reporting and to discuss queries about IBT program implementation.

ii) Praj Foundation CSR head Mr. Vinayak Kelkar visited two Model IBT schools Hingangaon and Bhiwadi on 27th Feb 2018, to take a review of model school progress and support need.

iii) Sachin attended the L&T InfoTech CSR partners meet at CASP on 2nd Feb 2018.

iv) Animal vaccination camp was organised on 20th Feb in Thangaon village and students vaccinated 11 animal under supervision of veterinary doctor Dr.Hajare.



Vaccination camp

- v) Azolla bed were made in 5 schools (Amkhel, chhadvel, Tilali, sakri , Aichale) as a part of practicals.
vi) Ms Tejal Mahashabde visited 4 schools near Manchar on 6th and 12th Feb as a part of IBT Impact assessment study.

लोकमत



आयएलएफएस कंपनीचे संचालक आर. सी. सिन्हा यांनी येट विद्यार्थ्यांशी संवाद साधून आयबीटीच्या उपक्रमाविषयी माहिती घेतली.

आयबीटीच्या विद्यार्थ्यांकडून उपक्रमाविषयी माहिती

लोकमत न्यूज नेटवर्क

खोडद : हिवरेतर्फे नारायणगाव येथील कुलस्यामी खंडेराय विद्यालयात मागील २ वर्षांपासून सुरु असलेल्या आयबीटी या उपक्रमाविषयी आयएलएफएस कंपनीचे संचालक आर. सी. सिन्हा यांनी येट विद्यार्थ्यांशी संवाद साधून माहिती घेतली, अशी माहिती विद्यालयाचे मुख्याध्यापक टी. बी. वागदरे यांनी दिली.

◆ आर. सी. सिन्हा यांनी या भेटीदरम्यान विद्यार्थ्यांशी मुक्तपणे संवाद साधून त्यांनी आधुनिक पद्धतीने केलेल्या यश जातीची कोबी लागवड, झोला वेड, गांडूळखत प्रकल्प, हायड्रोपोनिक तंत्रज्ञान, वरापर्णी अर्क, नर्सरी, सीसां खेळणी, फेरोसिमेंट वेच, कुड्या, रूत, गाजर हलवा, चिककी, तीळलाडू, एलडीआर, वॉलप रिव्ह व वायरिंग सर्किट प्रकार इत्यादी उपक्रमांची माहिती घेतली.

कुलस्यामी खंडेराय विद्यालयात सप्टेंबर २०१६ पासून पाबळ येथील विज्ञान आश्रम व नालंदा फाऊंडेशन यांच्या सहकार्याने आयबीटी हा पूर्व व्यावसायिक

अभ्यासक्रम सुरु करण्यात आला आहे.

या अभ्यासक्रमात विद्यार्थ्यांना अभियांत्रिकी, ऊर्जा व पर्यावरण, शेती व पशुपालन, गृह व आरोग्य या चार

विभागांचा अभ्यासक्रम प्रशिक्षित निदेशकामार्फत शिकविला जातो.

या वेळी नालंदा फाऊंडेशनचे प्रमुख संजय जोशी, आशिष पटेल तसेच विज्ञान आश्रमाचे सचिन पुणेकर, महेंद्र भोर, ग्रामविकास मंडळाचे अध्यक्ष डॉ. प्रवीण शिंदे, उपाध्यक्ष सुनील पायकवाड, खजिनदार रामदास शिंदे, संचालक बाळासाहेब मुळे, विद्यालयाचे मुख्याध्यापक टी. बी. वागदरे आदी उपस्थित होते.

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Visit of ILFS officials to IBT school

- vii) 3D designing workshop : Eight VA DIC short term course girls students conducted 3D designing workshop simultaneously in 4 IBT (Chas, Hivare, narayangaon, bori) schools. They taught over 200 students about computer aided drawing. Students draw different shapes and objects on computer viz. Key-chain, jewellery, flower pot etc. Narayangaon school students visited Gawadewadi school to 3D print their object.
- viii) Total 240 students of 4 IBT school were visited Vigyan Ashram on various days this month. They were given exposure to various technology development projects at ashram.
- ix) IBT Video conferencing lecture were conducted on 10th, 17th, 24th Feb. Yogesh Kulkarni and Ranajeet Shanbag conducted the session for IBT schools.

C] Entrepreneurship Accelerator:

- i) Training on 'Advanced fodder management' – We have organised two days training workshop on 'Advanced Fodder Production Techniques' on 16th & 17th February. This workshop was attended by 6 participant and 11 DBRT students.

They learned fodder technologies like Azolla cultivation, Hydroponics, Silage making and Dry fodder treatment.

- ii) Dipak visited Akkalkuva (Nandurbar) to prepare loan application and due diligence for DBRT alumni Rajesh Padvi for fabrication business. Dipak also visited Pasli to make loan proposal for Karavand processing and poultry business.



Fodder Making Workshop

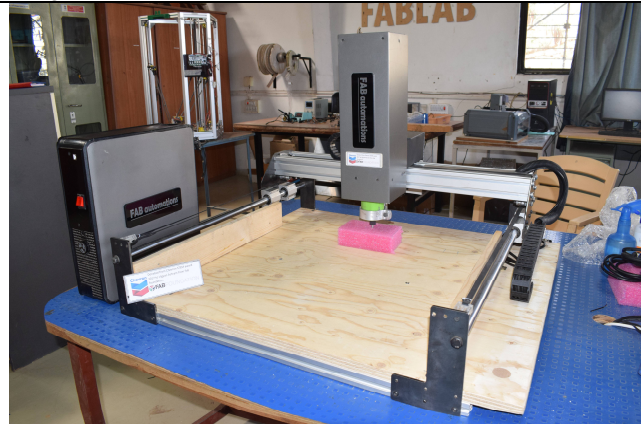
D] Update - Technology development & Design innovation centre:

i) DIC Varanasi meets: Ranajeet participated in all India DIC meetup 2018 at Banaras Hindu University, Varanasi during 9th & 10th February. Ranajeet visited Development Alternative and DST officials on 8th March in New Delhi to discuss proposal of 'Technology business accelerator'.

ii) Narendra Pande instructor from Loksadhana Vidyalaya underwent training on DC Laser and wood router from 22nd – 27th Feb. Both machines are made in Fab Lab by Suhas and Supriya. We have gifted these two machines to Loksadhana school, Chikhalgaon from Chevron STEM award.



DIC Meet @ Varanasi



Wood Router : Made @ VA Fab Lab

iii) Following new projects are initiated with DIC students.

Name of student	Project name
Ashish Patil & Bhushan Chavan	Developing drying SOP for Anandghana Ind , Nhavra
Priya Bhoi	Terrace garden – Vertical farming & Aquaponics
Ashwini Bhandare	Fabricating Nirgudi oil manufacturing unit for Rural Commune
Prerna Kairnar	Optimization of Azolla production / Brown rice cooker
Mayuri Tambe	Developing Sprouting unit for VA Kitchen
Komal Pund	Ragi / Nachani roaster
Mayuri Gadhe	Modifications of heat pump dryer
Pooja Pagare	Developing SOPs using drying apparatus

iv)Srikant participated in STEAM Fabrikarium from 10th – 14th Feb at Maker Asylum, Mumbai.

v)We have finalized proposal for livelihood program (SOW) with Paoolwat foundation & Dr.Prabhu on 25th Feb. This program will be implemented for next 3 yrs in Pasali village in Velhe block.

vi)We have entered into MOU with Muktangan Exploratory for establishing and supporting innovation lab at Exploratory in Pune.



D])DIY Lab @ JPNC : Basic Electronics and 3D printing training for 17 students of RSM School was conducted on 20th & 21st Feb.

DIY Camp @ JPNC

Students of Dr. Babasaheb Ambedkar school made project for Inspire Award "Peanut Separation technique".

Students from Mukangan exploratory visited VA on 1st Feb to complete their projects for Science day exhibition

E] Super 20 Girls : Scan and OCR for six books of Iravati Karve were done by girl students.

13 girls got Certificate on successful completion of computer graphic course on 15th Feb.

Pooja attended training of the trainer workshop on Wikipedia 24th and 25th Feb at Jnan Prabodhini.

F] Other tit-bit :

i) Yogesh gave Key note address at 'First Atal Tinkering Lab meet' held at Kalmadi high school on 8th Feb.

ii) Akashawani (Pune) team visited VA on 22nd Feb to record interviews on staff & students to be broadcasted on science day. It was broadcasted on Medium wave on 28th Feb and 1st March in Yuva vani program.

iii) A drip irrigation lateral installed for sampling planted during rainy season. The drip laterals are donated by group IBT Pabal school alumni's.

iv) Yogesh visited Bhubaneswar from 26th – 28th Feb as an expert on DST Tribal Plan program scheme.

v) We have got donation 15 microsoft licences under NASSCOM'S BigTech Program. We had paid only nominal cost for commercial licence.

vi) Visitors to Pabal campus – 531 ; Website

visitors : www.dstattara.org – 820 (New-718 , Repeated –102), www.vigyanashram.com – 1290 (New visitor –1031 Repeated-259) , www.vigyanashram.wordpress.com –2201 (Visitor- 1478 Viewers-723)

vii) Weather record – Rainfall – 0 mm (Total 882 mm) , Max temp- 24 °C, Min Temp – 12°C , Humidity – 48%, Water height in well – 5.8 mtr .

viii) Energy consumption record- Electricity unit – III Phase- 1362 unit, I Phase- 623 unit. Quality of power: Number of interruptions: 39, Normal voltage: 83.89 % , No supply: 1.61 % , low voltage: 7 % , high voltage : 0%, No data: 7%; Two wheeler usage : 458 kms

ix) Biogas consumption – Dung used- 103 Kg, Gas produced- 21 m³.



Data Report <https://bit.ly/2HfxMwA> 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/>

Photo Gallery:



Mulching at Hiware IBT



DBRT Jungle Trek



Visit of Praj foundation Mr.Kelkar to Bhivadi 27th Feb



WikiPedia workshop



Stall @ GMRT , Khodad



Gifting DC Laser to Chikhalgaon school from STEM award amount

(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)