

Vigyan Ashram Status Report

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In this issue

- IBT become a part of Core Curriculum !
- Expert committee visited Vigyan Ashram to review core support.
- Experimented Design Thinking methodology in IBT schools.
- KUL Foundation's 'Jeevan Shikshan Purskar 2014' to Vigyan Ashram.

A] Introduction to basic technology (IBT) become part of Core Curriculum !!

IBT program developed by Vigyan Ashram(VA) was first introduced in Pabal school in 1987. IBT reached major milestones on 21st Aug 2014. Maharashtra Govt by its government resolution (व्य.शि./२०१४/प्र.क्र.८२/१४/एसडी-६ दि.२१ ऑगस्ट २०१४) included IBT subject as a core subject for IX and X std. Students can opt for IBT subject instead of 3rd language i.e Hindi in Marathi medium schools.

We are advocating for universalization of IBT curriculum from long time. We have demonstrated effectiveness of IBT over the years in different conditions, geographical areas and all types of school. Simultaneously, we were demanding to include IBT as part of compulsory subject for all schools. The present decision is fall short of that expectation. But it is one step forward in that direction.

A program developed by VA and introduced as an experiment passed through test of time, sustainability, delivery and results and become a core subject. This is a proud moment for us. We are perhaps the only organization, which is working on 'work and Education' consistently over last 30 years. It is a big achievement as a NGO and we thanks all our partners and schools for partnering with us. This would have not possible without joint efforts by all.

IBT Timeline :

1987	3 schools	IBT was introduced as subject in Bhairavnath Vidyalaya Pabal.
1997	15 schools	IBT program was included in centrally sponsored pre-vocational scheme.
1999	21 schools	Decision to give reservation for IBT students in ITI, Polytechnic and bi-focal courses
1999-2001	23 schools	IBT in 23 schools supported by Sir Dorabaji Tata Trust.
2005		National Curriculum Framework 2005. IBT program was included as a case study for 'Work and Education' position paper.
2007	28 schools	Plan100 project in partnership with Lend-a-hand-India. IBT was introduced in Karnataka.
2009	45 schools	Joint meeting of Education Minister and technical education minister to include IBT a core subject in place of 3 rd language.
2011	92 schools	IBT program in Chattisgarh – Bijapur and Dantewada
2014	122 schools	Maharashtra Govt GR on making IBT a core curriculum

B] IBT update

i) Yogesh along with Mr.Sunil Kulkarni attended meeting organized by RMSA and Dy.Director vocational education and training at Aurangabad on 8th Aug. We gave presentation of IBT program to school principal and management representative interested in starting pre-vocational program.



ii) Sachin visited Pench-Tadoba school from 18th – 22nd Aug for monthly review visit. He also visited Kolutmara ashram shala to discuss steps in introducing IBT from next academic year.

iii) Dantewada Dist administration has issued a work order to implement IBT in 17 schools from 2014-16.

iv) Yogesh & sachin visited schools in Shikshan Pandhari project of Maharashtra Knowledge Foundation on 11th Aug. We will be providing OER and testing OER to Shikshan Pandhari project.

C] Design Thinking workshop : We have tested OER and design thinking methodology while conducting IBT practical's with the help of volunteers of Engineers without borders (EWB).

Dhanaji Nana Vidyalya, Khiroda (19-21 Aug) : Students of Class IXth std. Carried out energy audit of their school and hostel building

.They did brainstorming on various ways to reduce electricity consumption. Their teachers introduce them to energy audit form. Students were divided among different groups and recorded energy consumption at each place. They noted that electricity can be saved by switching of the lights in toilets & bathroom in the hostels at night. They shortlisted idea of installing automatic circuit which can be



switch on and off the light by simply clapping by hand. They made the circuit and installed it. Similarly other group made a circuit and installed light sensor for street light which will switch on and off light depending on the intensity of solar light. As a part of their study, students did costing of the work, wrote report.

Agri.M.P High school ,Jamgoan Dist-A.Nager (27th – 28th Aug)

Students of class IXth carried out electrical wiring of their classroom. They don't have electrical point in the classroom to use LCD projector. They were studying 'Electricity' in their science curriculum. They learned to draw electric wiring diagram using electric symbols, estimated cost of wiring. Their subject teachers introduced them with relevant concept like current, voltage, wattage, size of wire, earthing ,simple phase/3 phase etc. They also learn about history of electricity and story of Faraday and Edison. They carried out wiring of classroom under supervision of instructors. Finally they wrote a report of their experience.



Video of instructors feedback on :
<https://www.youtube.com/watch?v=DQyRqZhZ-C8>



D] KUL foundation award:-

Vigyan ashram received "Jivan Shikshan Purskar-2014" from KUL foundation,Pune on 17th Aug. Award was given for school based skill training program. Award consists of cash price Rs.11000.00 and trophy. It was presented in the ceremony at the hands of Mr.Anant Dixit in presence of Mr.Tej Nivalikar and Mr.Lalitkumar Jain. Ranjeet and Sachin accepted the award on behalf of VA.

Panharinath Vidyalaya, Pokhari : Akaash Tablets were given to 52 students of Class IX std. They will be used to study IBT lessons and contents using tablets.

E] DST Expert committee visit to Vigyan Ashram

Expert committee appointed by Dept of Science and Technology (DST) visited VA on 5th- 6th Aug to review progress of core supported project. We also presented proposal for next 5 years. We have presented progress made in last 5 years. We also proposed tentative plan for next 5 years in terms of technology development, dissemination and strengthening of school network.

F] Entrepreneurship Development in IBT villages

National science and technology Entrepreneurship Development Board (NSTEDB) has sanctioned our proposal to support entrepreneurs in IBT villages. We are planning to establish 200 entrepreneurs in next 4 years IBT network (mainly IBT instructors).

G] Mr. Kevin simon, students from MIT visited VA from 2nd – 8th Aug. He interviewed farmers for collection of data about improvement in irrigation pump.

Yogesh participated in MIT- Tata center conference at IIT, Pawai on 20th -21st Aug. We are also providing all information to establish Fab Lab at IIT.

H] Farmers Club:

Farmers club is established in Wable-wadi (Near, Jategaon sugar factory, Tal- Shirur) with 28 initial members. This group is planning to start goat farming unit as group activity. We are providing necessary guidance and contacts for field study. This club is registered with Narayangaon KVK for training and other technical support.

I] SOW trainings:

Dairy training started at Pondewadi (near Loni, Tal-Ambegaon) in collaboration with Srinivas Service Trust (SST, Shirur). Training will be conducted with on site. We will be conducting 5 training session about dairy farming, fodder and feed management etc. There are 13 SHG members enrolled for the course. The course was started on 31st August.

J] TIED (“Technology incubation cum entrepreneurship Development centre”) –

Following fellows were selected for starting their enterprises.

- a) Rajesh Padavi → Planning to start bakery unit. He will work with bakery unit (Bismilla Bakery) in Pabal village as on-job training.
- b) Anil Darekar → Planning to start poultry and egg hatchery.
- c) Santosh Borage → Planning to start ferrocement business especially dome construction.

We are guiding them in preparing business plan and sharpening their skills to launch their enterprise.

K] Village Level Entrepreneur (VLE) in Chattisgarh and MP

- a) Aniruddha and Ashish lead the work on the new low cost lamp development and mobile charger and inverter solutions. The goal is to deploy those in the field around Diwali.
- b) Avinash / Pradeep gave presentation to NABARD officials through Vrutti in Rehti area in MP.
- c) Avinash continued to set up stalls at specific locations on bazaar days.
- d) Aniket visited Panna district of MP and carried out market assessment.

L] DBRT Update

i) 15th Aug : Independence day celebration 15th Aug was celebrated with enthusiasm. After flag

hosting various cultural programs were performed by students. All ashramites did shramdan on 14th Aug. We have planted 120 plants on campus, cleaned scrap yard area, repaired barbed wired compound protecting newly planted trees.

ii) Workshop students carried out repair of windows of school in thorsthal village.



Similarly they are experimenting with different types of walls for new kitchen. They made frame for ferrocement sheets and experimenting of different composite material to make the cost effective walls.

iii) Personality development workshop for all DBRT students was carried out from 4th – 14th Aug. EWB volunteers Chris and Navaz conducted the session.

iv) DBRT students visited and worked in nursery in village. They also did landscape gardening outside agri section. Students sold coriander grown in agri section in market.

vi) Tata Motors team interviewed DBRT students for their scholarship scheme.



Agri-AH

- i) Next batch of poultry started with 400 birds on 24th Aug
- ii) Operational loss in goat farm is Rs.1156/-. Operational loss in dairy : Rs. 670/-
- iii) Osmanabadi goat calving on 10th Aug.

M] Other tit-bit –

- i) Suhas and Pallavi attended NGO Management training at S.P Jain Management Institute, Mumbai from 7th to 10th Aug. Rahul attended training on FCRA rules.
- ii) Dahi handi celebration at ashram on 19th Aug.
- iii) Students did *गणपती प्रतिष्ठापना* on 28th August. DBRT students are practicing 'Barachhi dance' for the immersion procession.
- iv) EWB volunteer Mr.Navaz Karim fall sick due to stomach infection and was hospitalized for few days in Pune. He returned to UK on feeling better to take rest.
- v) New recruitment advertise given on www.nukari.com & other online portals for Entrepreneurship development project (Project manager & Field officers).
- vi) Weather record – rainfall of the month - 109 mm ,Max temp- 30oC , Min Temp –20.64oC , Humidity – 78% , Water height in well – 7.74 M
- vii) Energy consumption record- Electricity unit – Three Phase -781 KWH, Single Phase – 565 KWH, Diesel consumption for generator- 0
- viii) Biogas consumption – Dung used- 1847 Kg, Gas produced- 22 M3.



Data Sheets :

https://docs.google.com/spreadsheets/d/1rbQ8HthWccpjA4PeOJ0y_q-UakyLziOjiJqSgfOPMIs/edit#gid=308835261

Photo Gallery :



DBRT students working in nursery



Pokhari students got Akaash Tablets



Azoll bed in Shirwal



Making murghass @ Hasur IBT



15th Aug : Cultural program @ ashram



Kitchen construction in progress



Raksha bandhan @ ashram



Making Ferro cement mould for kitchen wall



IBT stall : Shirwal school



School on Wheel : Dairy Training



DBRT project



Rajesh : Doing Internship in Bakery