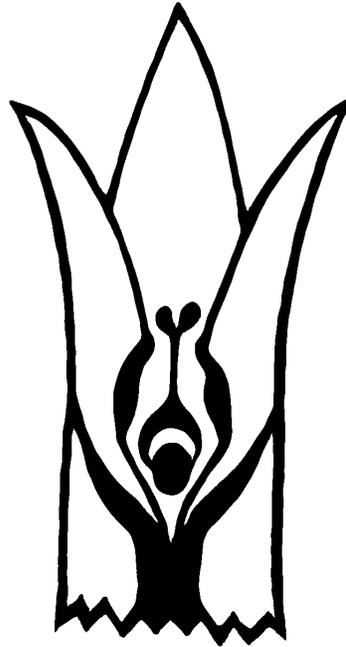


ANNUAL REPORT

2010-2011



VIGYAN ASHRAM

AT.POST.PABAL DIST.PUNE 412403
(A CENTER OF INDIAN INSTITUTE OF EDUCATION)
128/2, J.P NAIK PATH, KARVE ROAD, KOTHRUD
PUNE 411038, PH : 020-25424580

WWW.VIGYANASHRAM.COM

VIGYAN ASHRAM ANNUAL REPORT 2010-11

Progress Highlights:

A) Diploma in Basic Rural Technology (DBRT) Course

(Supported by ASHA for education – Seattle chapter, Mr. Dai Meghaji,)

- 1) DBRT (one year residential program) is a flagship program of VA. We continue to improve its content, methodology. This year (2009-2010) batch of 38 students completed their training on 25th June. They have done many remarkable projects. it includes making Candy, Pulp, Supari from 100kg of Amla, Onion grading Machine, Cash Guard Alarm, Cultivation of exotic vegetable, LPG gas leakage alarm, Instillation of solar light, Seed sewing Machine, Cow dung mixer for Bio gas Plant, Medicinal Plant Nursery, Polyhouses etc. ASHA for education provided financial support for this program.
- 2) DBRT 10-11 batch started on the 10th July with 39 students. There are 12 students from the tribal area of Jharkhand, 4 students from UP, 2 from Gujarat, 1 from Andhra Pradesh & remaining are from the different region of Maharashtra.
- 3) NIOS is publishing books for DBRT in English. They appointed Committee of Subject experts to write these books. This will help us to take DBRT Program to other states.
- 4) DBRT students took parts in various activities,
 - i) 16 students completed pure half marathon.
 - ii) Students went on bicycle trek of 300kms to Shiveri fort.
 - iii) They visited kisan exhibitions.
 - iv) Several short study visits to nearby entrepreneurs etc.
 - v) In this year, students provided community services of the value RS.369740/-
- 5) Mr Diamond Meghaji (E-Boss), supported loan scholarship for 7 DBRT students.



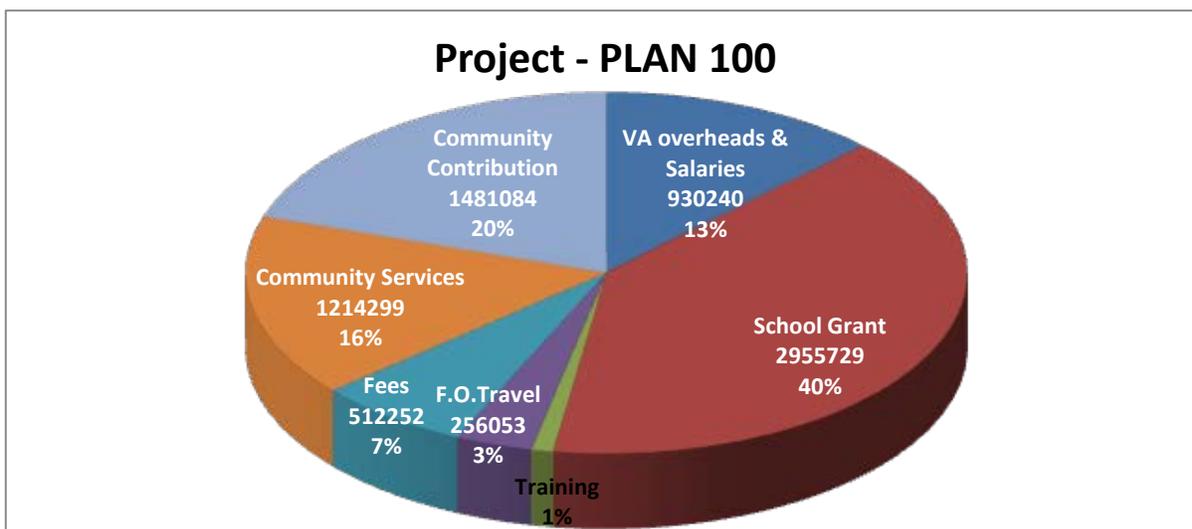
Following courses conducted during the year 2010-2011 at Pabal.

Name of Course	No. of Students
DBRT	39
Poultry	9
Work Shop Fabrication	10
MS Office	12
Computer Tech Program	6
Basic Internet	3
ELECTRICAL & Motor winding	7
Food processing	1
IBS Course	9
Fab Course	12
Agriculture	2
Mason	6
Total	116

B) IBT Program in Formal School

VA's educational philosophy of 'Rural Development through Education System' is implemented in formal school (8th -10th class) through 'Introduction to Basic technology'(IBT) Program. We are trying to disseminate various appropriate technologies to villagers though IBT Program. The Program is implemented in various schools partnership with Lend-a-hand-India, Asha for education, AID, Suzlon foundation, HK Foundation; Bayer Crop science. Following are the details of the Progress.

- i) **Plan100:** Plan 100 is a joint project of Vigyan ashram and Lend-a-hand-India to take IBT to 100 schools in Maharashtra. Total 39 School are Supported through Plan 100 Program this year.
- a) Total **1621** students appeared for IBT SSC exam and result is 100%. Total numbers of students studying in IBT from VIII – Xth Std are **5588**.
- b) The range of community service given by IBT schools includes electrical wiring, nursery, food products, fabrication works, manufacturing of LED lamps, construction work, Soil and water test, repairing electrical appliances etc. details are available on www.lahi-impact.org. Total value of community service given by schools are Rs. 12,14,299./- Total Fees collected from schools is Rs. 512252/-.
- c) Plan100 – Financials of the Project



- d) IBT instructor training was organized in summer and Diwali vacation. Total 290 instructors and 43 teacher coordinators were trained.

e) Testing benefits of IBT program vs. regular formal schools

A Comparative study of testing benefits of IBT Program is carried out on IBT and non - IBT students. Test was carried out on 163 non-IBT and 178 IBT Student of IXth class. Test was designed using Bloom taxonomy. It is once again proved that IBT improves application ability (25%), Evaluation ability (22%), Creativity (65%). Analytical ability (37%) in students than regular format studies.

Highlights Of Plan 100 program:

- i) 22 schools participated in the competition to make solar dryer and



use it for drying vegetables.

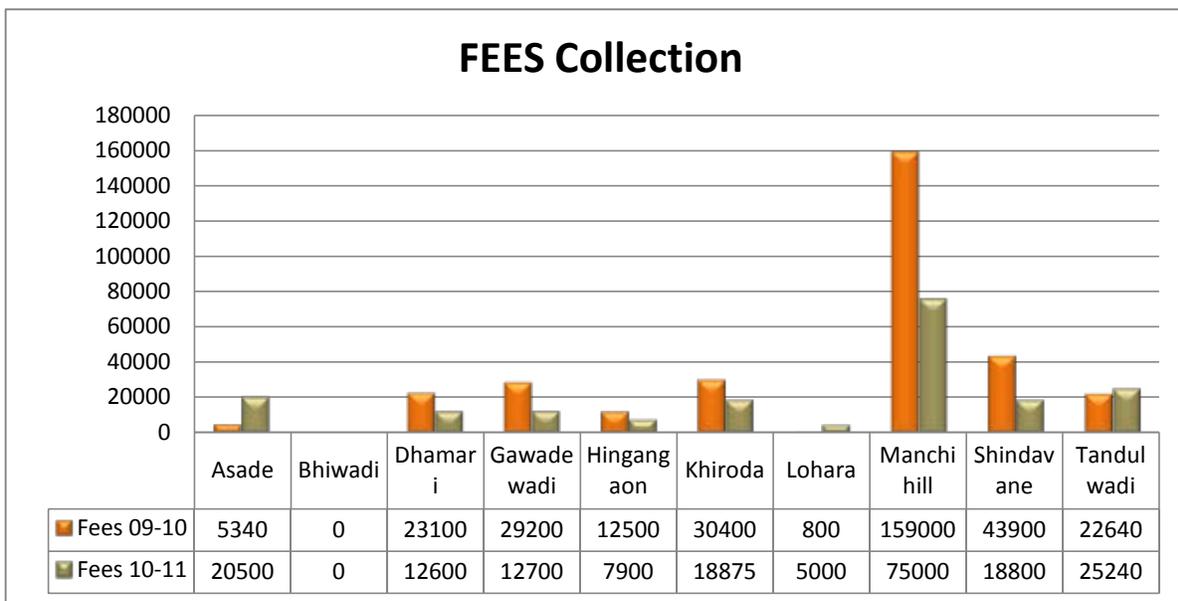
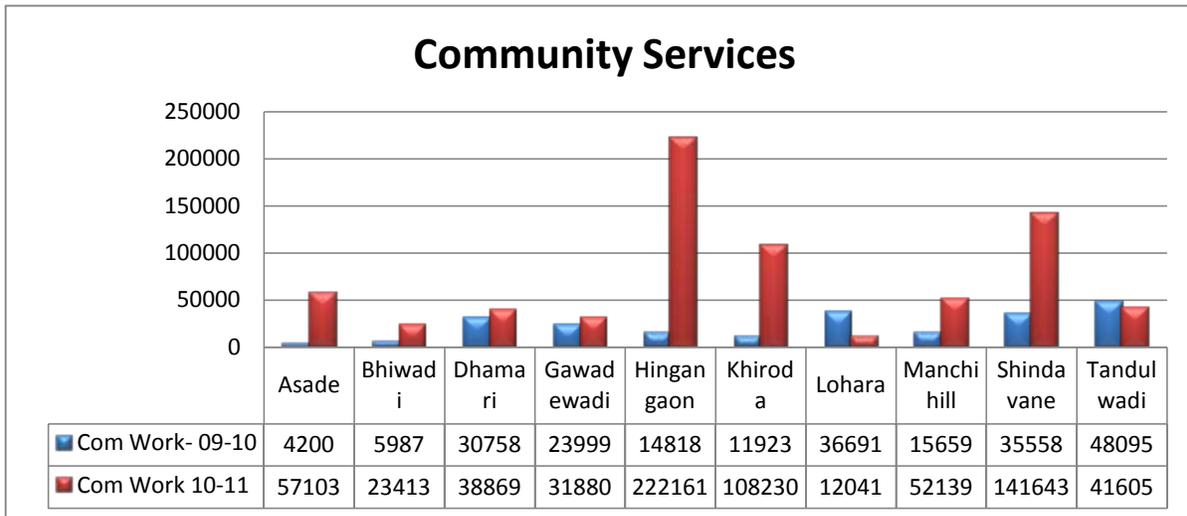
ii) 14 IBT schools visited Infosys under its SPARK program.

iii) Mr.Pandharinath Kolhe, Mr.Mangesh Tajane, Mr.Vitthal Shid repaid their bridge loan. Total outstanding for bridge loan project is Rs.1,15,313/-

iv) Annual meeting of IBT school principals was held at Pune on 16th April 2010. HMs of 39 LAHI funded IBT schools and HMs of 23 other IBT schools was present issues related to effective implementation of IBT was discussed.

v) IBT sustainability :

Special efforts were taken on 10 senior IBT schools to make them financially sustainable. New areas of community services were explored. Graph shows school wise improvement in community services and fees, compared to last financial year.



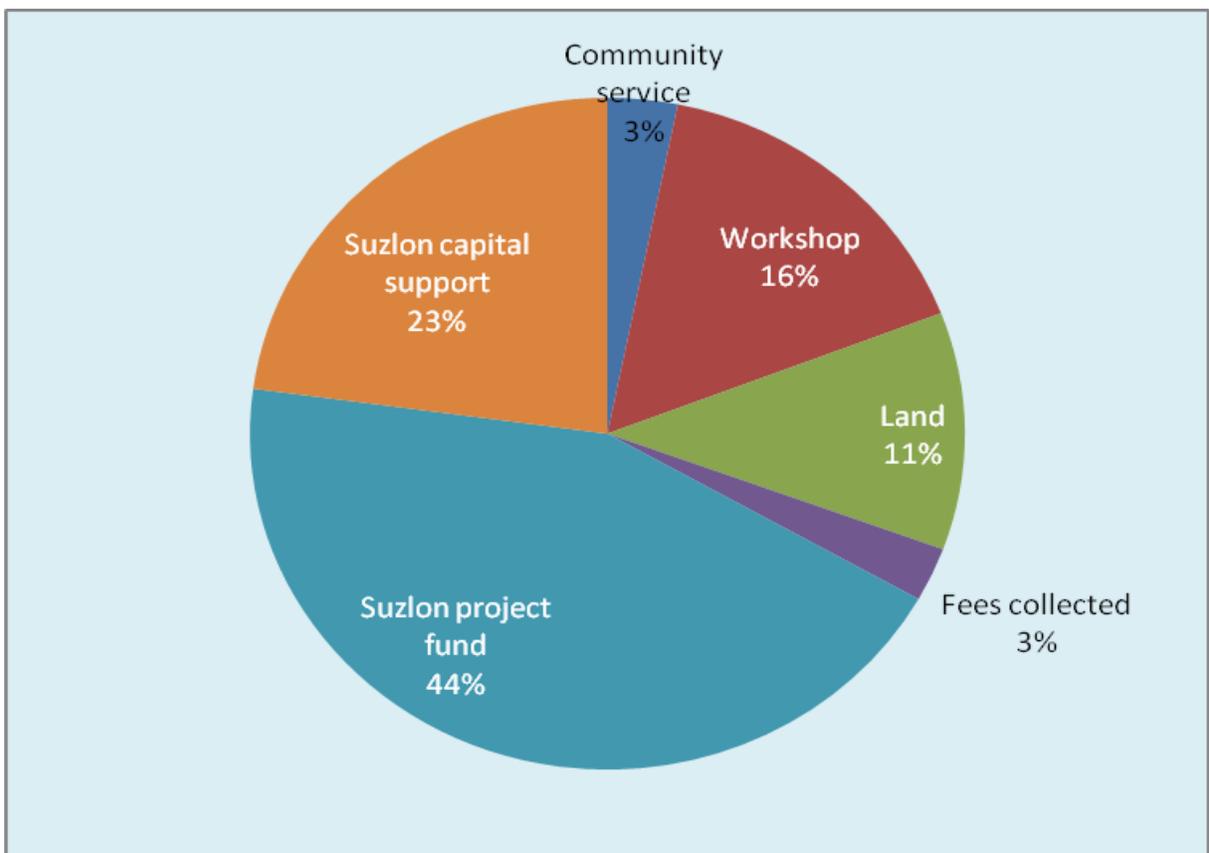
Efforts on sustainability are documented on www.ibtreport.blogspot.com

vi) In the last 5 years, 66 instructors left IBT School to start their own enterprises. Though it is temporary loss to school, society got entrepreneurs. We trained another youth in the village to work as instructor.

ii) Suzlon Foundation supported IBT program

1. Suzlon Foundation is supporting IBT program in 16 schools from Dhule, Nandurbar, Satara & Sangali districts. Students - 2761 (Boys: 1475 Girls: 1286) are benefiting from the program.
2. Total value of community service given by schools is Rs. 2,21,096/-, Total Fees collected Rs.1,81,989/-
3. 16 Instructors left IBT school and started own enterprises in last 3 years of Suzlon supported IBT.
4. Sugyaan centre:

Sugyaan Center are started in five wind farm villages of Suzlon. Old computers donated by Suzlon were used in these centers. Various educational CDs and computer courses were offered through these centers. 50 students took benefits of the courses through Sugyaan Center.



iii) Bayer crop Sciences supported IBT program

IBT program is implemented by Prajayatna in Tumkur District with the support of Bayer Crop Sciences. VA provided training to 23 instructors. A Team of 20 Govt. Officials from Karnataka visited Pabal from 27th – 29th May to study IBT program.

iv) Hemendra Kothari Foundation:

IBT Program is started in Gurukul School, Deolapar and Swami Vivekanand School within the buffer zone of Pench Tiger reserve area with the financial support of HK Foundation.

C) TECHNOLOGY

DST Core support:

Following is the brief of various R&D carried out by core staff supported by DST.

1) Solar cooking park -

Solar cooking and drying gadgets like different parabolic cooker, Solar Schaffler concentrator, and solar dryers for different applications are now installed at VA campus. We are working on developing small business model around the solar gadgets. (Solar equipments capital cost is supported by INDUSA)



2) FARMERS GROUP PROGRAM-

VA Organized farmers group in 5 villages. Various discussions & training program, documentary shows were organized farmers. Total 200 farmers benefited under the program. Technologies such as mulching, drip irrigation, composting, nursery technique etc are adopted by the farmers.

3) Domestic solar egg incubator.

We are working on developing an egg incubator to hatch poultry eggs using solar energy. Temperature in the incubator is maintained by circulating hot water from solar water heater. We found out from experimentation all temp and humidity parameters required for hatching eggs for 85% success rate. We are presently working for automation of this unit. We are hopeful that this unit will be useful for SHGs and small entrepreneurs in villages.

4) Papercrete Technology:

We are trying to make paper crete and its product from waste non-recyclable paper. We tried various composite mixtures like waste paper + rice husk (row, burned) and other bio-waste. For removing fibres from waste paper, a special machine called *De-fibrer is* designed and developed in-house by core staff.

5) Training Program on Dome construction

Training Program on Dome construction was organized at Pabal from 11th -15th Oct 2010. Total 6 participants, 4 from Maharashtra & 2 from Gujarat attended the training.

6) Engineer's without border students Project (EWB)

We are providing projects to volunteers of Engineers without boarder; this year 9 students completed their projects with us. The details are available on www.engindia.net

7) FAB LAB : Vinayak Dharmadhikari represented Vigyan Ashram in the Sixth International Fab Lab Forum and Symposium on Digital Fabrication in Amsterdam, Netherlands from 15th – 20th Aug. His trip was sponsored by FAB Foundation.

8) IBT Manuals for instructors

Manual for IBT practicals of 8th & 9th STD is developed. We published draft version of the manuals in July and distributed to all IBT instructors.

9) Under GKN support, we are developing multimedia content on engineering and electrical courses. Multimedia content is outsourced to M/S i-active educational Pvt. Ltd.

D) Workshops / Seminar / Meetings

i) TEDx talk

WISER-U forum organized by centre de Recherches Interdisciplinaires, Paris and Yuanpei college of Peking university at Beijing, China on 21st Aug. Yogesh participated as a jury in the co-petition on technical projects in the field of education, healthcare and Yogesh gave TEDx talk on 'Rural Development through Education system' at TEDx talk is available online on <http://www.tudou.com/playlist/playindex.do?lid=10208017&iid=59536971&cid=25>

ii) STARS forum: First conference of 'Skills training for advancement of rural societies (STARS) forum was organised on 3rd and 4th Jan at Pune. 26 organisations from across the country participated in the discussion. Proceedings of the conference are available on www.starrforum.blogspot.com

iii) Yogesh attended meeting of 'National knowledge network' at Vigyan Bhavan, New Delhi on 10th March. The meeting was called to explore possibilities and employment generation prospect when villages will have 10GB of bandwidth.

iv) Anand gave talk on VA program at Yuva workshop organized by navachetana kshetrkruti prakalp, Pen Dist.Raigad on 24th April 2010

v) Ranjeet attended workshop on " Build capacity for scouting, Documentation, Dissemination and incubation of grass-root innovations" at Ahmadabad during 6 to 8th June conducted by NIF and CAPART.

vi) Yogesh participated in a consultation meeting on Enhancing agricultural labour and environmental standards on 27th and 28th July at Hyderabad.

vii) National Council of Rural Industrialization (NCRI) organized a national consultation on Nai Talim in Dehli on 28 & 29 Aug. 2010. Omkar participated in the meeting and took part in the discussion

viii) Ranjeet and Sachin attended Management development program organised by SP Jain college of Management, Mumbai for NGOs from 6th to 8th September.

ix) Yogesh visited Ganatar in Ahmedabad on 16th Sept. He visited their campus in Pathadi and Nal sarovar and discusses possibility of starting IBT/DBRT program. Gantar is mainly working for salt pan workers and looking to start vocational skill training for their workers children.

x) Ranjeet attended "National Seminar on Status and Future Prospect of Home Science As vocational Education "at PSSCIVE, Bhopal from 13th – 15th Dec.

xi) Vinayak attended workshop on Appropriate Technology organised by CAPART in New Delhi from 28th – 30th Dec.

E) Infrastructure Development

i) Modernisation of food lab :

We are upgrading our food lab with the support of M/S Praj Foundation. We have installed facility like homogenizer-cum-mixer, Fruit pulpier, cutting machine, Glassware's and chemicals etc. We started production cum training program using this facility.

ii) Cognizant Foundation: A new hostel room is completed with the support of outreach program of M/s. Cognizant.

iii) New Hostel Building:- State Finance Minister Mr. Dilip Walse Patil laid foundation stone of a new hostel building on 14th April. The Hostel is getting constructed by PWD dept. from local MLA fund.

iv) GKN –Finishing School Project

Bhoomi Poojan of 'Finishing School' construction (Foundation stone laying) ceremony of Finishing School Project was held on 6th October 2010 at the hands of Mr. McIlDoie Doug of (HR –Global Head of M/S GKN Sinter Metal Ltd.UK). It will be approx. 6000 sq ft of PEB shed on the site of existing classroom and workshop.

F) Exhibitions,/ Award/Recognition:

- GMRT- Khodad: A science exhibition was organized at Khodad by GMRT on the occasion of science day on 28th and 29th Feb.

- **30th July: Open House exhibition** → an open house exhibition is organized on the 7th anniversary of Dr. Kalbag. We felicitated our DBRT alumni Mr. Raghappa Chougule with YUVA UDYOJAK PURSKAR'2010. He is successfully running a work shop at his native village; Khoopsangi near Mangalwedha. Our alumni Mr. Shivaji Gore, who owns a foundry business in Ahmednagar was the chief guest for the Program.



- Anil Joshi and Kumar installed solar lightening system at Khelghar, Pune.
- Yogesh Kulkarni received PhD in Educational communication. He gave his viva on 7th July. Yashwantrao Chavan Maharashtra Open university accepted his thesis on 'Study A study and development of educational & life skills learning strategy for the children of nomadic & denotified tribes in Maharashtra using Information Communication Technologies (ICT)
- **D.D. Sahyadri made documentary on Vigyan Ashram** was broadcasted on 29th Aug and on 1st sept.10 at 5pm on DD Sahyadri channel. It is available on link:

http://www.youtube.com/watch?v=QvQw_HshSBs

IBN LOKMAT NEWS Channel Covered VA Program in their episode 'Garjaa Maharashtra Mazza'.

G) Visitors:

More than 5000 visitors visited ashram this year. Many schools, colleges, farmer groups visit us to see application of rural technology and education. Important visitors to VA are as follows –

1. Asha for education-Pune chapter visited ashram on 5th April for project review.
2. S.P. JAIN Inst. Of Mgmt. Students Mr. Krishna & Mr. Rajashiree sahu carried out study on the status of enterprises started with bridge loan support.
3. Mr.Daisuke Miyoshi who is doing volunteering work with Gramin Bank(Bangladesh) visited VA on 31st July to study fab lab and VA program
4. Mr.Heriberto from Escuela Nueva, Colombia visited VA on 14th Oct to understand our IBT program. They are working with primary schools in Colombia.

(For more information on all above projects log on to www.wordpress.vigyanashram.com)

I) Donations to Ashram

Vigyan Ashram is thankful to donors and well wishers. Their contribution helped us to fulfill many necessities at ashram.

Sr.	Name	Donation In RS.
1	Mr. P.P.Pai Dhangat	3000/-
2	Palak Nidhi Pariwar	2350/-
3	Jnana Prabodhini	500/-
4	Sudha Waghle	3000/-
5	Sudha Sancheti	2000/-
6	Manju Joshi	100/-
7	Mira Kalbag	10000/-
8	Bhatwadekar & Co.	10000/-
9	Prashant Puppal	10000/-
10	Chitra Bhade	5000/-
11	Naomi Turner	7685/-
12	SSA Pune	1301/-
13	Chitra Bade	5000/-
		59936/-

Apart from monetary contribution many people donated equipment to Vigyan Ashram in kinds.

J) Projects Completed this year

- ADRA – Dome Painting and self help group

K) Ongoing Projects:

DBRT program	Asha for education –Seattle, Mr. Diamond Meghaji
IBT	Lend-a-hand-India, Asha for education-Seattle, Suzlon foundation , Bayer crop sciences , cognizant, Lend-a-hand-India, AID - chicago
Improving facilities in ashram	PRAJ foundation, Lahi and many individuals
DST Core	DST, (Govt. of India)
Improving Agri. Facilities/Solar Park	INDUSA
Sugyaan	Suzlon foundation
Finishing school	GKN Sinter Metal

L) Staff Matters

Following staff joined this year:

Mr. Swami (DME) joined Engineering section as instructor; Mr. Gajanan Ghate joined vigyan ashram as a field officer in IBT project, Mr. Babu Salave joined as a technician for Suzlon Sugyaan Project, Mr. Rajkumar Kurane joined as a field officer for Pench- Nagpur region

Following staff resigned this Year:

Mr. Anil Joshi, Mr. Rohan Choukhar, Mr. Bhausaheb Waghole.

Total staff: 29

{DBRT: 8, IBT: 9 , Kitchen: 3, computer: 1, FABLAB- 1 DST: 3, Director: 1, Pune Office : 3}

M) Program Advisory Committee:

PAC comprising of Dr. Waghmare, Dr. Gautam Sen, Mr.Ashok Kalbag, Mr.Vijay Kumar, Mr.Sunil Kulkarni, Mr.Anil Bahuman, Mr.Sanjay Shembade, Mrs Mira Kalbag and Mr.Yogesh Kulkarni. Look into Management of VA.

PAC meetings of VA were held on 28th Feb, 7th March, 27th June & 12th Dec 2010.

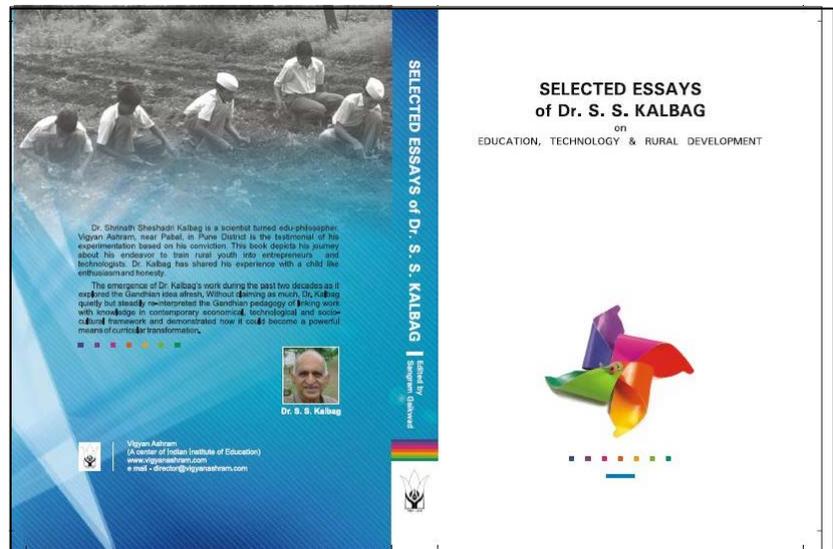
Vigyan Ashram is thankful to PAC member and Board of trustees of Indian Institute Of Education for their support and guidance.

N) Volunteers :

Vigyan Ashram appreciates efforts taken by many volunteers in promoting VA program. Vigyan Ashram also acknowledges support of villagers in Pabal, IBT schools and their management for their continuous support.

Selected Essays of Dr. S. S. Kalbag on Education, Technology & Rural development.

Vigyan Ashram Published articles written by Dr. S. S. Kalbag. The articles were compiled by Yogesh Kulkarni and Edited by Mr. Sangram Gaiwad. Mr. Sunil Bhondge, Dr. C.M. Pandit and many other helped in publication of book.



Finance:
Income Expense Summary 2010-11

Sr.No	Name of Project	Opening Balance	Receipt	Expenses	Closing Balance
1	IAP	1066778.86		334606	732172.86
2	ADRA	50278	539000	3314	585964
3	VAM Pabal Campus				
	DBRT	86030.27	584296	534791	135535.27
	IBT Asha	93737.63	145576	18308	221005.63
	Wi-Fi	63336			63336
	Asha Project (Pabal)	635810.05	532275	846629	321456.05
	VAM	-393893.83	741945	108764	239287.17
	Fab Lab	68939.67			68939.67
	Total A	1671016.65	2543092	1846412	2367696.65
4	Bayer	-90970			-90970
5	Indusa Project	131790	270000	255425	146365
6	Bridge Loan	302498	22690		325188
7	PLAN 100	161834.85	3166974	4610421	-1281612.15
8	Core Grant	93058	1234000	1353245	-26187
9	SUZLON	366692.11	2325495	2656582	35605.11
10	Suzlon AH	179547		7820	171727
11	GKN		4365295	1186528	3178767
12	HKF		443000	393641	49359
13	PRAJ		734169	515624	218545
14	Hoenywell	180000			180000
	Total B	1324449.96	12561623	10481601	3404471.96
	Grand Total A+B	2995466.61	15104715	12328013	5772168.61

As per IIE account dept. VA corpus as on 31st March 2010 is Rs. 7212637/-