

Annual Report 2012-13

Satvik : Promoting Ecological Farming

A 59, Changleshwar Society

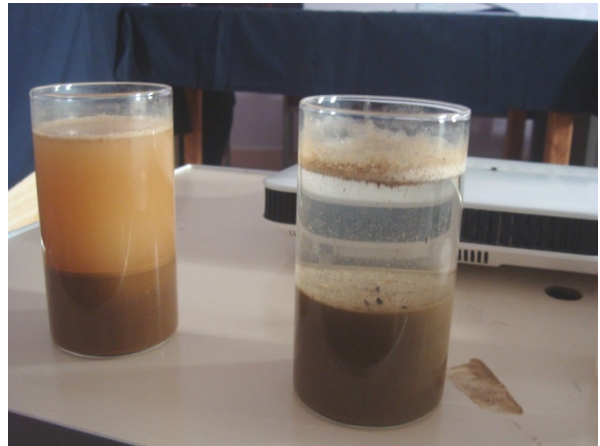
Mundra Relocation Site

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About Satvik ...

The relatively low and erratic rainfall of arid regions, like Kachchh have challenged the indigenous populations to develop some of the finest crop and animal biodiversities - which have not only reduced risks to adequately feed their human and animals populations, but will in the future, prove to be critical in providing genetic material to face the challenges of climate change. Complex web of loops has been established that feed into one another wherein byproduct becoming primary inputs and the value chain takes place within the eco region. This has created efficiencies, economies and dependencies that promote strong and sustainable communities.

Satvik : Promoting Ecological Farming (Satvik) has been promoted by group of motivated organic farmers who came together share their excitement and their practice at the turn of the 20th century and later formalized in 2007.

Satvik is reinvesting efforts in scientifically documenting their benefits; promoting their further development; reinstate a confidence and dignity amongst its farmer practitioners - towards self contained societies and economies that are self dependant for their food security and only export their surplus.

Objective

To promote, conceptualize, encourage, aid, organize, assist, support, facilitate and undertake various aspects of ecological agriculture including distribution, promotion, marketing and trade of such produce, in its all forms, for strengthening of livelihood of marginal farming community and improvement in the health of the people irrespective of caste, class, gender, race and religion.

Governing Board

Sr.	Name	Designation	Occupation
1	Prof. Sukhpal Singh	President	Research & Teaching
2	Sh. Vijay Maganlal Shah	Vice President	Farmer
3	Sh. Shailesh Mohanlal Vyas	Secretary	Agriculturist
4	Sh. Shailesh Dayaram Gor	Treasurer	Business & Farming
5	Sh. Manoj Purshotam Solanki	Member	Business & Farming
6	Dr. Yogendrasinh Jilubha Jadeja	Member	Geo-hydrologist
7	Sh. Kapilkumar Jagdishchandra Shah	Member	Social Work
8	Sh. Sushma Iyengar	Member	Development worker
9	Sh. Sandeep Indu Virmani	Member	Development worker
10	Sh. Nanalal Hirji Satra	Member	Business

Registration

Society Registration Act, 1860
Section 12 AA of Income Tax Act, 1961
Foreign Contribution Regulation Act, 1976

Bombay Public Trusts Act, 1950
Section 80G of Income Tax Act, 1961

Staff Profile

Sr. No.	Name of the Staff	Designation	Education Qualification	Relevant Work Experience
1	Shailesh Vyas	Co-ordinator	B. Sc. (Agriculture) PG D Ecology & Environment	19 Yrs.
2	Ramesh Makavana	Project Co-ordinator	B. Sc. (Agriculture)	9 Yrs.
3	Nikita Gor	Project Co-ordinator	B. Com.	12 Yrs.
4	Tanvi Baxi	Account Clerk	B. Com.	3 Yrs.
5	Suleman Khoja	Filed Assistant	S. S. C.	7 Yrs.
6	Valimamad Theba	Filed Assistant	8 th Pass	7 Yrs.
7	Dinesh Rajgor	Office Assistant	4 th Pass	7 Yrs.
8	Sattar Theba	Office Assistant	10 th Pass	7 Months

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1. Strengthening Sustainable Agriculture

1.1 Studies and Research

During the year Satvik has carried out following studies and research work.

1.1.1 Monitoring System For Gau Savardhan

To transform Shri Ram Krishna Trust's Gau Shala into Gau Savardhan Kendra, giving number to livestock and establishing recordkeeping system was an essential activity. To develop appropriate tagging, numbering system and record keeping system, study of system of Central Cattle Breeding Farm, GLDB's project of Sahjeevan, commercially available options and information available through desktop research was carried out. Numbers were carved out manually on tags through trial and error. Registers for record keeping were developed. Tagging and initial registration of all (around 135) animals was completed on 30/8/2012.

Based on initial registration information 1st report was generated giving picture of various categories of animals. 2nd report was generated based on development happened in first fortnight of September. This report carries information on milk production, new births and services. Based on 1st and 2nd report, good and poor animals got identified and animals that may have gynecological problem were also identified. Based on the 2nd report, a meeting was organized with Chintan Farm Team and Sh. Manojbhai Solanki on 18/10/2012 to work out the strategy and action for the improvement on the identified points. It was decided to start feeding mineral mixture to animals, start feeding concentrate and cooked food to the *vodis (young female cow)* and dry cows and providing de-worming medicine to all animals except those pregnant. The main aim of this exercise was to identify the cows whose progeny has high milk yield potential. As the milk production varies for number of calving and lactation length, plain comparison does not help in such case. Based on the milk production of last 5 months in the months of February a specific data comparison system was designed. Based on this comparison system cows were shortlisted for this purpose. Data set generated is as below...

Table 1 : Data of SRKT's Gau Shala

[illegible]

1.1.2 Study of Kachchh Agriculture

- For ACT undertook study of Agriculture of Kachchh to workout Relevant classification of agricultural system and its characteristics, Classification of villages based on relevant agriculture system and Productivity of various crops in good and bad rainfall years.
- Data collection from secondary sources like District Panchayat Agriculture Office, Revenue Department, Office which carried out Crop Productivity Survey etc... Study is under progress.
- Where ever good quality data was available, analysis was carried out and tables were prepared.
- Due to lack of availability of reliable data discussion is going on how to capture the same through primary investigation.
- Later on it was decided to carry out analysis work by using available taluka level data. Various comparisons were drawn specifically keeping irrigation water requirement in mind. Some important analysis are as below:

Gap in Irrigation Water Demand Management

Below tables suggest that there is an increase in rabi and summer cultivation which is directly linked with increase in irrigation water demand based mainly on groundwater. These tables also suggest that there is high increase in cultivation of rabi wheat, summer groundnut and green fodder in rabi and summer. These crops are high water demanding.

On one hand efforts to promote drip irrigation are concentrated in crops like kharif cotton and kharif castor which covers 1,66,000 Ha. (some area is under rainfed cultivation), whereas on other hand rabi wheat, summer groundnut and green fodder in rabi and summer which covers 86,000 Ha. (depends on irrigation) are left out of the drip irrigation. Focus needs to be given to cover these crops under drip irrigation.

Table 2 : Rabi Crop Cultivation Area

Rabi Crop Cultivation Area	Average (2000-01 to 2002-03) Ha	% of Total Cultivation Area	Average (2009-10 to 2011-12) Ha	% of Total Cultivation Area	Change Ha	Change %
Wheat	14577	31.0	29538	25.7	14961	102.6
Fodder	12402	26.4	20908	18.2	8506	68.5
Mustard	2972	6.3	19667	17.1	16695	561.7
Cumin	4888	10.4	19431	16.9	14543	297.5
Vegetables	2398	5.1	12955	11.3	10557	440.2
Isbgul	8099	17.2	5357	4.7	-2742	-33.8
Onion	303	0.6	2612	2.3	2309	762.0
Fenugreek	164	0.3	1271	1.1	1107	674.3
Coriander	342	0.7	1259	1.1	917	268.1
Garlic	248	0.5	959	0.8	711	286.6
Gram	125	0.3	472	0.4	347	277.6
Fennel	0	0.0	367	0.3	367	0.0
Potato	259	0.6	103	0.1	-155	-60.2
Sugarcane	233	0.5	8	0.0	-224	-96.5
Sunflower	2	0.0	0	0.0	-2	-100.0
TOTAL	47012	100.0	114908	100.0	67896	3448.6

Source : Kachchh Jilla Panchayat

Table 3 : Summer Crop Cultivation Area

Summer Crop Cultivation Area	Average (2000-01 to 2002-03) Ha	% of Total Cultivation Area	Average (2009-10 to 2011-12) Ha	% of Total Cultivation Area	Change Ha	Change %
Summer groundnut	14235	53.1	22608	45.7	8373	58.8
Fodder	9442	35.2	13802	27.9	4359	46.2
Vegetables	1789	6.7	5158	10.4	3369	188.3
Summer pearl millet	815	3.0	3492	7.1	2677	328.5
Summer greengram	261	1.0	1727	3.5	1465	561.7
Muskmelon	211	0.8	873	1.8	662	313.7
Onion	0	0.0	652	1.3	652	0
Cluster bean	45	0.2	561	1.1	516	1146.7
Summer sesamum	0	0.0	350	0.7	350	0
Sunflower	0	0.0	187	0.4	187	0
Watermelon	0	0.0	111	0.2	111	0
TOTAL	26799	100.0	49520	100.0	22722	2643.9
<i>Source : Kachchh Jilla Panchayat</i>						

Table 4 : Season Wise Fodder Cultivation Area

Season Wise Fodder Cultivation Area	Average (2000-01 to 2002-03) Ha	% of Total Cultivation Area	Average (2009-10 to 2011-12) Ha	% of Total Cultivation Area	Change Ha	Change %
Kharif - Sorghum and Other Fodder	89627	18.3	69896	12.0	-19731	-22.0
Rabi - Fodder	12402	26.4	20942	18.2	8540	68.9
Summer - Fodder	9442	35.2	13802	27.9	4359	46.2
<i>Source : Kachchh Jilla Panchayat</i>						

Seed System of Rainfed Area

Compared to seed system of irrigated farming, seed system of rainfed farming is less understood. Satvik made an attempt to understand the seed system of rainfed farming in Kachchh. For this purpose a survey was conducted covering 480 responses from 30 villages for Kharif 2009 season. The survey has crops like Pearl Millet, Sorghum, Green Gram, Moth Bean, Cluster Bean, Sesame, Castor and Groundnut. Except Groundnut rest of the crops are common in rainfed cultivation across villages of Kachchh. Understanding developed from survey is as below.

Ownership of the seed : 40% of the respondents are planting their own farm saved seed whereas 60% are purchasing seed from others.

Seed in possession at the time of rain : In rainfed cultivation, capitalizing of first rain is an important as it has narrow window for sowing. Seed should be in the possession at the time of rain. Earlier when the farmers were growing farm saved seed, this was not the major issue. 34% respondents have informed that they were not in the possession of seed at the time of rain and they were procured seed later. This issue needs to be looked in and efforts should be made to increase the seed possession by farmer at the time of rain.

Seed Sourcing : Besides farmers who are using their own farm saved seed 28% farmers are sourcing seed either from fellow farmer or from village shop.

Table 5 : Seed Sourcing

Seed Sourcing	%
Planted Own Farm Saved Seed	40
Sourced from Fallow Farmer	7
Sourced from Village Shop (not seed vendor)	21
Sourced from Co-operative Society	8
Sourced from Seed Private Vendor	24
Total	100
<i>Source : Seed Survey for Rainfed Crops Sown in Kharif 2009, Survey by Satvik</i>	

Issues in procurement of seed : As large number of farmer is procuring seed they are facing various kind of issues in procurement. The major issue faced by the farmer is that they have to travel long distance and seed is not available on time.

Table 6 : Problems in Procurement of Seed

Problems in Procurement of Seed	%
Need to Travel Long Distance for Procuring Seed	36
Seed Not Available on Time	30
Vendor is Not Providing Guarantee about Seed	11
Costly Seed	11
Seed Not Available in Sufficiently Quantity	10
Vendor Not Providing Bill	3
Total	100
<i>Source : Seed Survey for Rainfed Crops Sown in Kharif 2009, Survey by Satvik</i>	

Issues related to seed quality : Major problem farmer is facing related to seed quality are poor harvest, inferior seed and high attack of disease and pests. From these issues it appears that the seed variety procured by the farmer has to do with this.

Table 7 : Issues Related to Seed Quality

Issues Related to Seed Quality	%
Got Poor Harvest	37
Seed Looked Inferior and have Mix of Other Seeds	33
Observed High Disease and Pest Attack	24
Got Poor Germination	7
Total	100
<i>Source : Seed Survey for Rainfed Crops Sown in Kharif 2009, Survey by Satvik</i>	

1.2 Capacity Building

1.2.1 Training

Table 8 : Training Details

Training Type	Subject	Trainer Agency / Resource	Time / Duration	Trainee	No. of Trainee Participants	Location
Short Module	Introduction of Organic Farming	Satvik & Shri Ram Krishna Trust	3 days 22-23-24 June 2012	Farmers who want to get introduced to organic farming before its adoption	Male - 38	Chintan Farm, Kukma
On Request Training	Natural Resource Management and its related development issues	<ol style="list-style-type: none"> 1. Satvik 2. Namak Producer Company, Rapar 3. Kala Grower Farmers, Rapar 4. Fasal Producer Company, Bhachau 5. Castor Products Company - Castor processing unit, Bhachau 6. NDDDB milk collection center, Bhachau 7. V.R.T.I., Naliya 8. K.F.F.F.D.T., Kothara 9. Progressive Farmer 10. Bhadreshwar Setu, Mundra 11. V.R.T.I., Mandvi 12. A.C.T., Bhuj 13. Khamir, Kukma 14. Qusab, Bhuj 15. Saiyare Jo Sangathan, Nakhatrana 	10 days 21/11/2012 to 30/11/2012	Newly Inducted staff of Reliance Foundation	Male - 4	Field Visits

		16. Banni Breed Association, Banni				
On Request Training	Natural Resource Management and its related development issues	1. Satvik 2. Organic Farmer 3. Progressive Farmer 4. Namak Producer Company, Rapar 5. Kala Grower Farmers, Rapar 6. Castor Products Company - Castor processing unit, Bhachau 7. Hunnar Shaala Foundation, Bhuj 8. Kutch Nav Nirman Abhiyan, Bhuj 9. V.R.T.I., Naliya 10. K.F.F.F.D.T., Kothara 11. Bhadreshwar Setu, Mundra 12. A.C.T., Bhuj 13. Khamir, Kukma 14. Saiyare Jo Sangathan, Nakhatrana 15. Chintan Farm, Kukma 16. Sarjan Bio Tech, Bhuj	10 days 12/12/2012 to 21/12/2012	Newly Inducted staff of Reliance Foundation	Male - 3 Female - 1	Field Visits
On Request Training	Natural Resource Management and its related development issues	1. Satvik 2. Organic Farmer 3. Progressive Farmer 4. Namak Producer Company, Rapar 5. Castor Products	10 days 7/1/2013 to 13/1/2013	Newly Inducted staff of Reliance Foundation	Male - 2 Female - 2	Field Visits

		Company - Castor processing unit, Bhachau 6. Hunnar Shaala Foundation, Bhuj 7. K.F.F.F.D.T., Kothara 8. Bhadreshwa r Setu, Mundra 9. A.C.T., Bhuj 10. Khamir, Kukma 11. Saiyare Jo Sangathan, Nakhatrana 12. Chintan Farm, Kukma 13. Banni Breed Association, Banni				
Technical Training	Understandin g Soil and its enrichment methods	Satvik	2 days 29/1/2013 to 30/1/2013	Project Staff of KNNA's ICCO project and ACT's RRA-CP project	Male - 10 Female - 1	Nav Chetna Campus, Bhuj

1.3 Networking and Support

1.3.1 Working with Kutch Navnirman Abhiyan

Satvik is a coapt member of Kutch Navnirman Abhiyan. As a member Sh. Shailesh Vyas participated in the following meetings.

- Chitan Sabha organized on 11/5/2012 and 12/5/2012
- Meeting of Sub-group on Working with Industrialization in Kachchh
- Khas AGM to amend constitution on 21/7/2012
- AGM on 21/9/2012
- Governing Board meeting on 3/12/2012, 24/12/2012 and 31/1/2013

Sh. Shailesh Vyas has provided inputs to Sh. Srestha Roay and Sh. Veena Mahor to design follow up of Chitan Sabha. Sh. Shailesh Vyas is a member of Setu Livelihood Group and has provided inputs on their promoted 3 Producers Companies.

1.3.2 Support to Drought Proofing Programme

Sh. Shailesh Vyas is a member of the Steering Committee of Drought Proofing Programme Phase II. Under this programme 6 Producers Company was registered. Hence Steering Committee was restructured as Project Management Committee (PMC) and Sh. Shailesh Vyas is a member of PMC. Following inputs were provided during the year.

- Govt. of Maharashtra and MNREGA consortium has organized consultation on How MNREGA can address drought situation in Maharashtra at Mantralaya (Mumbai) on 22/3/2013 and 23/3/2013. Sh. Shailesh Vyas has made the presentation on DPP Phase I supported by MoRD – its achievements and learnings on 22/3/2013.
- PMC has decided to evaluate the health of the producers company. Have provided inputs for designing the parameters and later have participated in the evaluation of the producers company promoted by Saiyare Jo Sangathan and Kutch Food, Fodder And Forest Development Trust.
- Facilitated to Producers Company promoted by Kutch Food, Fodder And Forest Development Trust for undertaking business and service for drip irrigation system as per GGRC guideline.
- Provided inputs to Sh. Reenaben Rabari of Ujjas Mahila Sangathan to prepare business plan for their producers company.
- Supported Abdasa Producers Company to finalizing their first governing board meeting minutes.
- Provided support to develop proposal for Phase III on Strengthening of Producers Company to be submitted to ICCO. ICCO has approved the project for the one year.
- Participated in a meeting organized by Kutch Nav Nirman Abhiyan on addressing the (at that time August) emerging drought situation.
- Provided inputs to Sh. Haribhai Panchal to prepare proposal to be submitted to a call raised by HIVOS to support Producers Company in the month of March.

1.4 Working with Farmers and Local Communities

- Farm visits of Sh. Vinodbhai Jethva, Sh. Ajaybhai Brahamkshtriya, were made, implementation of various organic practices was discussed and necessary guidance was given.
- Bio composting activity is going on at Chintan Farm. To ease out watering problem, Satvik team has designed and implemented watering of bio compost bed through drip.
- At Chintan Farm various types of compost and organic liquid manures are made and used. It was decided to analyze for its nutritive and microbial value. Kachchh University has agreed to extend support in analysis. Satvik has facilitated to draw the samples and submitted to the Kachchh University.
- Khamir has expressed to develop Kitchen Garden for their mass at their Kukma Campus and sought Satvik's technical support. Satvik has provided detail design and budget for drip irrigation base Kitchen Garden under net House.
- Providing guidance and support to a community kind of kitchen garden at Shivam Park Society initiated by Sh. Sandeepbhai Virmani. Established composting system to convert household kitchen waste in to compost at this kitchen garden.
- Based on the information given in a report titled "Sustainable Agriculture with Low Cost Technologies (SALoCT)" prepared by School of Agriculture and Rural Development, Ramakrishna Mission Vivekananda University, Belur Math, a poster depicting microbial count of various beneficial microbes in various organic liquid preparation was prepared.
- Last year farmer Sh. Maganbhai Ahir has collected some wheat plants from his field which has sown resistance to heat wave. This year he wants to evaluate the same and for that purpose has sought Satvik's help. Satvik has provided basic guidance on how to grow for evaluation trail and how to monitor for the evaluation. Satvik team has facilitated harvesting of what from these small plots so that better record keeping can happen later on.
- Field experiment is designed with farmer Sh. Maganbhai Ahir on establishing a small plot based on the line of system of wheat intensification. For this purpose information has been collected from the various portals.
- Last year Castor Products Company has purchased neem seeds. This year for oil extraction they have decided to clean the seeds before extracting the oil. In cleaning process huge quantity of dust and neem twigs has remained as waste. Satvik has set up experiment at Castor Products Company factory site on how to do composting of this material.

- After visiting the field an advisory has been provided to Makavana Farm on solution for mango and coconut problem. Sh. Ramesh Makavana of Satvik is providing advice on their problem on regular basis.
- Dr. Ashok Shah's meeting with farmer was organized on the afternoon of 28th Nov 2012 at Chintan Farm, Kukma. 20 farmers have participated and received guidance on various organic practices for their own problem.
- Kachchhi Jain Seva Samaj – Ahmedabad has invited Sh. Manoj Solanki to make presentation on what needs to be done for agriculture and animal husbandry in Kachchh in a seminar on Kachchh Development. Satvik team has work on preparing presentation for this event with Sh. Manojbhai Solanki.
- Provided inputs to Sh. Naranbhai Metaliya to develop action plan for enhancing sustainability of farming in Adesar area.
- To enhance food security and promotion of millet awareness project was given by Agriculture department to VRTI. VRTI has invited Satvik to provide presentation on importance of Bajara crop in nutrition and Bajara biodiversity prevails in Kachchh. Sh. Shailesh Vyas has made relevant presentation in awareness workshop organized by VRTI at Mandvi and Naliya on 20 and 22 March respectively.
- Grate Indian Bustard is rare and endangered bird species found in the one of the grassland near Naliya in Abdasa. BT cotton and chemical farming is on raising in the vicinity where this bird found. Forest Depart in collaboration with Corbett Foundation has organized awareness campaign in the form of evening meeting in 4 villages fall in this vicinity. They have invited Sh. Shailesh Vyas to introduce concept of sustainable farming and its larger benefits. Sh. Shailesh Vyas has given such talk in Dhufi and Kala Talav village on 22 and 23 March respectively. For remaining two villages appropriate audio-visual material was provided to Corbett foundation.

1.5 Bio Gas Promotion

- Sintex has come out with ready to install floating drum type bio gas plant in plastic. GAIC has agreed to extend subsidy support on this type design. As a demonstration, Satvik has facilitated installation of 4 such plants by organizing a workshop, making applications for subsidy and guiding farmers with posters. From RRA core team Dr. Himansu Kulkarni from RRA network visited Kachchh project area during 2nd week of February. Sh. Shailesh Vyas from Satvik engaged with him to explain him the role of biogas can play in rainfed farming besides its energy potential. For this purpose various potential biogas models under experimentation were shown to him. .

1.6 Revitalizing Rainfed Area – Comprehensive Pilot (RRA CP) - Abdasa

- Satvik has oriented ACT, VRTI and KUTCH FOOD, FODDER AND FOREST DEVELOPMENT TRUST about RRA CP's concept and requirement.
- Satvik has helped ACT to develop the one year proposal and helped in providing the response on the query raised on the proposal and implementation mechanism.
- On the approval of proposal, Satvik has provided lead input on initiation of implementation by establishing field team for the same.
- Satvik has facilitated field visit of Mr. Dharmendra of RRA – Chenta of Soil Node to understand the soil related practice carried out by farmers who provided orientation cum training on developing activities on soil productivity enhancement.
- Satvik has anchored the process of collection of village level primary information. Has carried out developed the formats, train the field team, data entry and analysis and facilitated a focus group discussion in the identified villages to understand the problems and rainfed farming and its potential solutions farmers wanting.
- It was decided to monitor the soil moisture behavior in the field in villages of Abdasa. Satvik has taken a responsibility to develop the concept and method for monitoring of soil moisture

behavior under different practices. Satvik has carried out desktop research and legwork to finalize the method of sample collection, drying and calculating soil moisture. For this purpose at 46 locations, covering different types of filed situation, soil samples at 6inch, 9 inch and 18inch depth is collected 4 times at 15 to 21 days interval. Further to understand impact of inter-cultivation operation in the standing crop at 12 locations, soil samples at 6inch, 9 inch and 18inch depth is collected 3 times at 15 to 21 days interval are taken. Soil texture and bulk density was measured.

- Along with Sh. Manubhai Vadher of ACT, Sh. Shailesh Vyas has participated in a in workshop to discuss the progress made by various RRA CP partners at SPS, Bagli during 5-6-7 Nov 2012.
- Training was organized of RRA CP filed co-ordinators on 1 January and 8 January on objectives of RRA, framework of RRA CP, research element in the RRA CP, line of communication needs to adhered in RRA CP. Based on this training filed exercise were given and its review was made.
- In RRA CP it was decided to implement compost making with available dry bio resources. Generally such material cannot get easily decomposed. For this purpose especial technique was proposed to increase nitrogen by using doiled cake and further to enrich compost use of rock phosphate was proposed. To speed up the composting process use of decomposer bacterial commercially available in the name of Madhyam was proposed. Satvik has also helped to source this material. RRA CP filed team has started implementing the same in the field with farmers.

2 Facilitation of Organic Certification and Forward Linkages

- Support has been provided to Khamir to source rainfed organic Kala cotton and to Safe Harvest Pvt. Ltd. To source NPM Cumin from villages of Adesar area in collaboration with Adesar Setu.
- Provided inputs to Khamir to develop proposal and business plan on developing captive value chain of Kala cotton to be submitted to Friends of Women's World Banking (FWWB). Later Khamir has entered into the contract with Satvik on how to make this Kala cotton value chain captive.
- Based on the previous experiences for the new season Khamir has expressed that they want to procure Kala directly from the farmer and will require its production certification. Further they will also require undertaking ginning operations for which they do not have technical capabilities. Satvik got engaged in this process and facilitated Adesar SETU for organic certification and made Khamir's arrangements with Castor Products Company to undertake ginning operations on behalf of Khamir in their premises and will also facilitate Khamir to get organic certification for ginning. Looking at the volume, commercially available ginning machine are too big, hence, sampler ginning machine was identified and Castor Products Company has purchased the same.
- Provided inputs on methods and machinery to Amit Thacker of Sanjivani Store of Madhapar to make gur from their sugarcane plantation and carrying out grading and cleaning of Kharif 2012 produce for their store.
- Facilitated Castor Products Company to source groundnut from one of the farmers of Kutch Food, Fodder And Forest Development Trust. For this purpose visits had happened in sequence from Kanday, Kothda jadodar, Castor Products Company.
- Adesar SETU was the part of Kachchh Fasal PC. The latter has decided to change their certifier and drop Adesar SETU from further certification. Khamir, Castor Products Company and Safe Harvest Pvt. Ltd. have interest in procuring Kala, Castor and Cumin respectively from Adesar SETU. Hence it was decided that KNNA will support Adesar SETU for organic certification and Savik will facilitate to acquire the same. Initially the project was stuck among Biocert, Onecert and APEDA duty clarity and administrative aspects and hence new data entry were not allowed and annual inspection was not carried out in time. Satvik has rigorously got engaged with all stake holders to solve issues one by one.
- Christine Ellinger of WALA has expressed interest in sourcing organic aflatoxin free groundnut from Kachchh. For this purpose she visited Kachchh during 21 January to 24 January. Satvik team has facilitated her field visit to Rayan, Kanday, Ningad, Nadapa and CASTOR PRODUCTS COMPANY.
- Provided support Castor Products Company to prepare SOP (Standard Operating Procedure) for HACCP certification for their organic cold press castor oil.
- Anand Agricultural University (AAU) has invited Shailesh Vyas to provide training lecture on Potential and Limitations of Organic Market from Farmer's point of view for their one month farmer training on 28 January at AAU.

3 Conservation of Traditional Seeds and Seed Security : Anmol

3.1 Organizing Farmers

Satvik along with 8 partners have organized rainfed farmers targeting 25 MT seed production in Kharif 2012.

Table 9 : Details of Farmers Organized and Seed Production Targeted

Name of Partner Organization	No. of Villages Covered	No. of Farmers Organized	Seed Production Targeted
Kachchh Fruit, Fodder and Forest Dev. Trust - Kothara	8	18 + Producers Company	3,400 Kg
Sh. Vivekanand Res. And Trn. Inst. - Naliya	5	70	3,200 Kg
PARAB - Naliya	4	23	1,500 Kg
Sh. Vivekanand Res. And Trn. Inst. - Mandvi	13	274	6,100 Kg
Saiyare Jo Sangathan - Nakhtrana	4	196	2,300 Kg
SETU - Khawda	6	214	4,200 Kg
SETU - Kodki Boladi	9	67	2,100 Kg
SETU - Kabrau	5	44	2,200 Kg
Total	54	905 + 1 Producers Company	25,000 Kg

Due to failure of rain in Kharif 2012, at majority of location crop has not reached the production stage.

3.2 Seed Character Mapping

In Summer 2012, Satvik had carried out drought tolerance trial of collected traditional cultivars of Pearl Millet and Green Gram at Sinugra village. Due to salinization of irrigation water Green Gram failed, whereas Pearl Millet was able to complete its life cycle. Out of 19 collected traditional cultivars, based on the repeated field observations and analysis of collected data, traditional cultivar no 3, 4, 6, 10, 12, 14, 18 and 19 found with better drought tolerance capabilities then other remaining cultivars.

During the year farmers, whose seed production plot has failed, have sourced 650 Kg of Sorghum seed from Seed Breeder Farmers (SBF).

As the Kharif 2012 crop has failed at majority of locations, Satvik has initiated the seed purity work under its own supervision. Detail is as below:

Table 10 : Seed Purity Work Details

Season	Crop	Name of Traditional Cultivar	Trial Location
Kharif 2012	Pearl Millet	Atubhai Siyal's seed	Kukma
	Sorghum - Gundri	Bhachubhai Gami's seed	Kukma
	Green Gram	Mohanbhai Koli's seed	Kukma
	Moth Bean	Naranbhai Gami's seed	Kukma
	Cluster Bean	Gaurishankar Vyas's seed	Kukma
	Sesame - 6 chambered	Karman Dana's seed	Kukma
	Castor	Jamuben Ahir's seed	Kukma
Summer 2013	Pearl Millet	Bharatbhai Boda's seed	Sinugra
	Pearl Millet	Atubhai Siyal's seed	Ningad
	Sorghum - Gundri	Bharatbhai Boda's seed	Sinugra
	Green Gram	Mohanbhai Koli's seed	Kukma

	Cluster Bean	Jesa Petha's seed	Kukma
	Cluster Bean	Mahipatsinh Jadeja's seed	Kukma
	Castor	Jamuben Ahir's seed	Kukma
	Cotton	Deviraj Cotton seed	Ningad

During the year one traditional black seeded sesame cultivar was indentified and collected.

3.3 Seed Production and Multiplication

In Kharif 2012, with 8 partner 25 MT seed production was targeted.

Table 11 : Seed Production and Multiplication Details of Kharif, 2012

Crop	No. of Traditional Cultivar Demanded	No. of Villages	Targeted Seed Production in Kg.	Input Seed Provided in Kg. (for Targeted Seed Production)
Pearl Millet	6	11	1,430	37
Sorghum	5	17	3,864	137
Green Gram	7	31	5,211	92
Moth Bean	3	12	1,900	37
Cluster Bean	9	36	9,842	300
Sesame	2	10	761	15
Castor	3	9	2,058	53
Total			25,066	671

To achieve 25 MT seed production, Satvik has facilitated and/or made available 671 Kg of input seeds. Due to failure of rain in Kharif 2012, at majority of locations, crop did not reach the production stage.

Crop failure in Kharif 2012 has resulted into loss of seed which will impact on future seed production. To address this situation Satvik has organized seed production under irrigated condition in Summer 2013. Before finalizing the location soil and water analysis was carried out and considered. Detail is as below:

Table 12 : Seed Production Details of Summer, 2013

Name of Partner Organization	Crop	No. of Traditional Cultivar	Village
Kachchh Fruit, Fodder and Forest Dev. Trust - Kothata	Green Gram	2	Bhedi Moti
Sh. Vivekanand Res. And Trn. Inst. - Naliya	Pearl Millet	1	Bara
	Green Gram	4	Bara
PARAB - Naliya	Pearl Millet	1	Memamwandh
	Cluster Bean	2	Bera
Sh. Vivekanand Res. And Trn. Inst. - Mandvi	Pearl Millet	2	Koday, Haripura
	Sorghum	1	Koday
	Cluster Bean	2	Koday, Gandhigram
SETU - Khawda	Cluster Bean	2	Soyla
SETU - Kodki Boladi	Green Gram	3	Vatachhad
SETU - Kabrau	Pearl Millet	1	Ner, Kabrau
	Green Gram	3	Ner
	Sesame	1	Kabrau

Satvik : Promoting Ecol. Farm.	Pearl Millet	3	Madhapar, Kukma, Sinugra
	Sorghum	2	Kukma, Sinugra
	Green Gram	1	Sinugra

These seeds will be used in Kharif 2013 to produce seeds.

3.4 Capacity Building

Seed Breeding Farmers (SBF) : Satvik on continuous basis encouraging and providing guidance to Seed Breeder Farmers (SBF) to undertake efforts to enhance purity of their seed stock in in-situ condition. Due to poor rain in Kharif 2012, in-situ seed purity work with SBF has remained limited to 4 farmers of Rapar taluka and 1 farmer of Mandvi taluka. To these farmers, Satvik team has provided field training on identification and removal of off type of plants for rouging. For this purpose 32 field visits were made.

Seed Producing Farmers : Two type of on field trainings, one on Basics Requirement of Seed Production and the other on Seed Production Technique, were provided to seed producing farmers. In these on field trainings 102 seed producing farmers from 54 villages participated. These trainings were organized at 9 locations. Besides these trainings, on field inputs were also provided during the routine monitoring visits.

24 farmers were taken on exposure visit to Balasar village (where sorghum production had happened). Objective of the visit was to see and understand various characters of sorghum and method of seed production.

Representatives of Partner Organization : Two type of trainings, one on Agronomy of Crop Cultivation and another on Major Diseases and Pests of Rainfed Crops, were provided to representatives of partner organizations on 22/8/2012.

One exposure was organized at Maganbhai's farm at Ningad village to understand how farmer is voluntarily working on seed improvement of wheat and cotton crop.

During the year 18 co-ordination meeting were held in which representative of partner organizations have participated on regular basis.

Satvik Team : Sh. Kapil Shah (Satvik trustee) provided inputs on Bt contamination, monitoring and breeding method to develop Bt free seeds in Cotton on 2/3/2013.

3.5 Documentation

Video documentation, covering experience of seed producer farmers and farmers who have used seed produced by these farmers, was made in the beginning of the year. This education material was used in the farmer meetings.

Poster set was made on Importance of Traditional Seed and Gaps in System of Seed Production. This education material will be used in farmer *melas*.

Last two years Satvik has rigorously worked on seed multiplication/production. It was decided to document the experience of the same. Topics which should be covered in this document were identified.

3.6 Advocacy

At present Satvik and partner organization is first creating a seed demand and then organizing the seed production for the same and this is happening at village level. To overcome the limitations associated with this methodology, legal aspects of seed production and sale was studied. For this purpose seed act and rule were studied and consultation was made with the Assistant Director - Quality Control.

This year Satvik got engaged with local Agriculture Department for recognition of farm saved seed and support for seed multiplication process. Satvik in-collaboration with local Agriculture Department is in process of submitting Application for Recognition of Seed Conserved by Farmer to Protection of Plant Varieties and Farmers' Rights Authority. Satvik has indentified 14 Seed Breeding Farmers and their conserved traditional seeds. Basic applications have been prepared; write up cum recommendation from Plant Breeder is awaited for final submission.

4 Financial Report

Satvik : Promoting Ecological Farming

Public Charitable Trust Reg. No. F-1541/Kachchh & Society Reg. No. Guj/1355/Kachchh

Balance Sheet as on 31.03.2013

Particular	Annexure	As on	As on
		31-Mar-13	31-Mar-12
Funds & Liabilities			
Trust and Corpus Funds	A	1,628,633.00	1,610,129.00
Other Funds	B	466,246.70	96,759.00
Current Liabilities	C-1	-	420.00
Unutilized Grant	C-2	3,143,228.53	1,621,698.11
Total		5,238,108.23	3,329,006.11
Assets & Properties			
Net Block of Fixed Assets	D	1,465,577.70	1,457,161.00
Investments	E	3,290,911.00	1,600,000.00
Current Assets	F	481,619.53	271,845.11
Total		5,238,108.23	3,329,006.11
Notes forming part of Accounts	O		

For Satvik: Promoting Ecological Farming

Shailesh Vyas
Secretary

Place : Bhuj
Dated :

11 6 JUL 2013



As per our report of even date
For H.Rustom & Co.
Chartered Accountants
Firm Reg. No. : 108908W



HRD Dalal
Proprietor
Membership No. 31368

Place : Ahmedabad
Dated :

11 7 JUL 2013



Satvik : Promoting Ecological Farming

Public Charitable Trust Reg. No. F-1541/Kachchh & Society Reg. No. Guj/1355/Kachchh

Income & Expenditure Account for the Year Ending on 31.03.2013

Particulars	Annexure	31-Mar-13	31-Mar-12
Income			
Grants & Donations	G	3,195,023.58	2,645,188.89
Other Income	H	507,380.00	91,110.00
Interest Income	I	123,771.00	85,956.00
Total		3,826,174.58	2,822,254.89
Expenditure			
Expenditure on objects of the trust	J	2,282,884.00	2,128,324.00
Contribution to Charity Commissioner	K	50,000.00	43,288.00
Establishment Cost	L	339,623.58	313,486.89
Remuneration to Trustee	M	717,476.00	503,874.00
Statutory Audit Fees for	N	39,326.00	-
Depreciation	D	9,883.30	10,426.00
Transfer to Corpus Fund	A	17,494.00	-
Transfer to General Reserve Fund	B	300,000.00	-
Excess of Income over Expenditure	B	69,487.70	(177,144.00)
Total		3,826,174.58	2,822,254.89
Notes Forming Part of Accounts	O		

For Satvik: Promoting Ecological Farming



Shailesh Vyas
Secretary

Place : Bhuj

Dated :

16 JUL 2013

As per our report of even date

For H.Rustom & Co.

Chartered Accountants

Firm Reg. No. : 108908W



HRD Dalal
Proprietor
Membership No. 31368

Place : Ahmedabad

Dated :

17 JUL 2013





Satvik : Promoting Ecological Farming

A 59, Changleshwar Society

Mundra Relocation Site

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