



Annual Report

2016 - 17

SATVIK
Promoting Ecological Farming

**Satvik: Promoting
Ecological Farming**

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About Satvik ...

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 century later formalized in 2007.

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 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, undertake various aspects of ecological farming techniques 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
1	Prof. Sukhpal Singh	President
2	Sh. Shailesh Mohanlal Vyas	Secretary
3	Sh. Shailesh Dayaram Gor	Treasurer
4	Sh. Manoj Purshotam Solanki	Member
5	Dr. Yogendrasinh Jilubha Jadeja	Member
6	Sh. Kapilkumar Jagdishchandra Shah	Member
7	Sh. Sushma Iyengar	Member
8	Sh. Sandeep Indu Virmani	Member
9	Sh. Nanalal Hirji Satra	Member

Registration

- Society Registration Act, 1860
- Bombay Public Trusts Act, 1950
- Section 12 AA of Income Tax Act, 1961
- Section 80G of Income Tax Act, 1961
- Foreign Contribution Regulation Act, 1976

Staff Profile

Sr. No.	Name of the Staff	Designation	Education Qualification	Relevant Work Experience
1	Shailesh Vyas	Secretary	B. Sc. (Agriculture) PGD Ecology & Environment MA (Economics)	21 Yrs.
2	Ramesh Makavana	Co-ordinator	B. Sc. (Agriculture)	12 Yrs.
3	Suleman Khoja	Field Assistant	S. S. C.	10 Yrs.
4	Valimamad Theba	Field Assistant	8 th Pass	10 Yrs.

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1. Organizing and Capacity building

- Lodai cluster of Bhuj Taluka was selected for implementation of this project.
- Series of village visits and meetings with farmers were organized for selection of villages and farmers.
- Total 5 villages of this cluster were selected. Selected villages are Umedpar, Dharampar, Khengarpar, Jawaharnagar and Dhrang. Among these 5; Umedpar and Khengarpar were selected for implementation of first phase activities. These activities will be expanded in remaining 3 villages in next phase.
- 20 Farmers from each village were selected. Meeting with selected farmers was organized for orientation of project and promoted them for formulation of Farmer Interest Groups (FIGs).
- In Umedpar and Khengarpar villages; FIGs were formulated.
- Farmer trainings on basic knowledge about importance of traditional seeds, seed conservation, seed production technologies and pure seed production were organized at village level.
- The main focus of the project was to establish seed system; setting up proper governing mechanism for smooth running of community processes. In order to ensure shared responsibility and quality of work, *Desi Beej Samitis* were formulated comprising experienced farmers.
- Series of meetings with farmers group in Umedpar and Khengar villages were organized for setting up *Desi Beej Kendra*. In these meetings; farmers have decided to set up *Desi Beej Kendra* in Umedpar village.
- *Desi Beej Kendra* in Umedpar village has been set up with objective to provide *trusted good quality desi* seeds to farmers. *Desi Beej Samiti* for governing *Desi Beej Kendra* has been formulated in early meetings.
- Running a *Desi Beej Kendra* is not so easy, as it involves collective business operations. To ensure good governance processes in the routine administrative procedures of business operation, it requires

proper training. Farmer's trainings related to administration/procedure for setting up *Beej Kendra* were organized.

Farmer Exposure Visit

Seed Production was vital activity of this project. Producing a quality seed is highly technical and dedicated task. Having enough knowledge about seed production activity is must; for that purpose seed producer farmer's exposure visit to seed production plot and seed processing plant was organized. Farmers had visited Surya Seeds Farm at Nakhatrana village of Kachchh district. In those exposure visit; 17 farmers were participated and 2 project staff from Satvik were joined to facilitate farmers. Mr. Kanjibhai a person from Surya Seeds Farm had provided information to farmers about technicality of quality seed production program. Farmers had visited Castor Hybrid seed production plot nearby village. On this plot farm manager had described procedure of seed production program like male plants and female plants, sowing distance, isolation distance, roughing, crossing, harvesting etc. Further they had visited seed processing plant owned by Surya Seeds Farm. There they had understood cleaning, grading, lot, packing etc quality related aspects. After this exposure visit they could understand how to take up successful seed production program on their farm. It was very useful trip for farmers and staff too.

2. Participatory Variety Selection

- Front Line Demonstration (FLD) plays important role for participatory variety selection procedure. Among confirming traditional seeds; provide choice to every farmer is mechanism for success. For this purpose FLD of best performing traditional seeds was planned with one farmer from Umedpar village.
- For planning of Front Line Demonstration (FLD) plot for preference selection; farmer meeting was organized in Umedpar village. Based on farmer's opinion 3 potential farmers were contacted. Finally Pravinbhai Jesabhai Dangar of Umedpar village was ready to conduct this trial, farm visited and prepared layout for the trial. Front Line Demonstration plot of 20 different traditional seed types was conducted on his farm.

Farmer Day Celebration:

Participatory Variety Selection (Preference Evaluation) is best tool for choose right one variety among given varieties. A farmer Day was celebrated at Demonstration plot Umedpar village. The main objective of this event was to enable farmers for choose their right variety among grown 19 varieties of 6 field crops. In this event more than 20 farmers from nearby villages had participated. Each variety had provided code number to avoid bias in selection process. Review form was given to all farmers for write their review on their chosen variety. Every farmer had closely observed all grown varieties and expressed their review on review form. After this exercise; all review forms were collected and short out according to farmer's choice. Common farmer's opinions are provided in below table. This event helped farmers to express their choice, ideas and what they are actually wants from seeds. They also learnt that how to select right seed and what are parameters should keep in mind during selection of seed.

- Based On the occasion of farmer day celebration, review forms were provided to farmers. Based on farmer's review forms; qualitative analyses was carried out to find out specific characters

identified by farmers if any other than previously identified. Some important characters identified by farmers are;

- In Castor, Prvain Dangar's variety is more suitable for rainfed condition where as Jamuben's variety is good for supplementary irrigation condition.
 - In Cluster Bean, Jentibhai Patel's variety having attractive pink colour of seeds.
 - In Sorghum, Bharatbhai's Sorghum is juicier than others.
 - In Moth Bean, Naranbhai's Moth Bean will get more market prices due to good seed colour.
- Officers from TATA CGPL had visited project area. Short project orientation meeting was held at Satvik office Bhuj and then took them to farmer's field at where demonstration of traditional seeds was conducted. They were impressed to farm situation in rainfed condition. Mr. Shailesh Vyas had described in detail about importance of traditional seeds in conservation of Agro-biodiversity in changing climate condition. They had interacted with farmers about farmer's interest and future need of traditional seeds.



Table: Farmer's Opinions

Sr. No.	Crop	Variety/Seed Breeder Farmer	Farmer's Opinion
1	Castor	Pravinbhai Dangar 1	• Good for rainfed condition and spike is big and compact
2	Castor	Jamiben Ahir	• Good for irrigation/supplementary irrigation rainfed condition and spike is big and in more numbers
3	Cluster Bean	Jesabhai Chhanga	• Plant habit is non-branched and grain color is more attractive
4	Cluster Bean	Gaurishankar Vyas	• Plant habit is non-branched, pink colored bold seeds and pods are in cluster
5	Cluster Bean	Jentibhai Patel	• Plant habit is non-branched, pink colored bold seeds, seeds are more compact, pods are in cluster
6	Sorghum	Pachanbhai	• Affected by grain smut disease
7	Sorghum	Bharatbhai Boda	• More leaves, fast growth, not affected by grain smut, juicy stem
8	Sorghum	Amarabhai	• Affected by grain smut disease, white mid ribs
9	Sorghum	Bhachubhai Gami	• Juicy stem and tall plants
10	Green Gram	Pravinbhai Dangar	• Seems good
11	Green Gram	Bhachubhai Gami	• Good
12	Green Gram	Jesabhai Chhanga	• Good growth, more number of pods
13	Green Gram	Mohanbhai Koli	• Good and creepers plant habit
14	Green Gram	Ugabhai	• Early maturing
15	Green Gram	Khmjibhai Menat	• Creepers plant habit and good
16	Moth Bean	Jesabhai Chhanga	• Light colored seeds
17	Moth Bean	Naranbhai Gami	• Dark colored seeds
18	Sesame	Pravinbhai Dangar	• Brown colored and very good for rainfed condition and late sowing
19	Sesame	Karmanbhai Marvada	• 6 – 8 chambers, bold seeds, white colored seeds

3. Pure Seed Production Plot and Seed Refreshment

- Pure seed production is a prior step to seed production. It requires full technical support and regular monitoring of seed breeder. Satvik is undertaking this task with selected farmers on their farms. Satvik is closely working with Maganbhai Ahir of Ningal Village and Satvik herself experimenting on Kodki Farm of Kodki Village.
- Detail planning of pure seed production and seed refreshment was prepared with selected farmers.
- On Maganbhai's Farm; Satvik is providing technical guidance and monitoring on regular basis while at Kodki farm, Satvik is directly undertaking all agricultural operations right from land preparation to harvesting.
- Pure seed productions for Khariff and Rabi season for green gram, castor, mustard, sorghum and sesame crops, were carried out at Kodki farm and post harvest, seeds were collected during the project period.
- Similarly, at Nigal village with Maganbhai, pure seed production for castor crop was carried out.
- Detail of pure seed production from 90 running meters single row of each variety is provided in below given table.



SN	Farmer	Village	Crop	Seed Breeder Farmer	Purpose	Production (Kg)
1	Kodki Farm	Kodki	Green Gram	Bhachubhai Gami	Pure Seed Production	1.192
2	Kodki Farm	Kodki	Green Gram	Khimjibhai Menat	Pure Seed Production	1.106
3	Kodki Farm	Kodki	Green Gram	Ugabhai Ahir	Seed Refreshment	1.179
4	Kodki Farm	Kodki	Green Gram	Mohanbhai Koli	Seed Refreshment	1.200
5	Kodki Farm	Kodki	Green Gram	Jesabhai Chhanga	Pure Seed Production	1.118
6	Kodki Farm	Kodki	Sesame (Black)	Dharamshibhai	Pure Seed Production	0.315
7	Maganbhai Ahir	Ningal	Castor	Jamiben	Pure Seed Production	First Harvest
8	Kodki Farm	Kodki	Castor	Pravin Ahir	Pure Seed Production	First Harvest
9	Kodi Farm	Kodki	Mustard	Valji Bhudiya	Seed Production	1.560
10	Kodi Farm	Kodki	Wheat Bansi	Devji Bhudiya	Seed Production	1.250
11	Kodi Farm	Kodki	Sorghum	PravinJesa	Seed Production	Summer sowing
12	Kodi Farm	Kodki	Green Gram	Khimji Menat	Seed Production	Summer sowing
13	Kodi Farm	Kodki	Green Gram	Jesa Petha	Seed Production	Summer sowing
14	Kodi Farm	Kodki	Green Gram	Ugabhai	Seed Production	Summer sowing
15	Kodi Farm	Kodki	Green Gram	Mohan Surji	Seed Production	Summer sowing
16	Kodi Farm	Kodki	Green Gram	Bhachubhai	Seed Production	Summer sowing

4. Seed Production

- Seed production was major activity of this project. Main focus was to produce sufficient seed for fellow farmers for sowing in next season. Seed Production involves technical aspects and hence, all, farmers cannot produce quality seed. Therefore, the identification of farmers for seed production is a crucial task so as to make quality seeds available for fellow farmers in the group.
- Group meetings were organized for planning and identify seed producer farmers. Seed production planning was prepared based on seed required for next season as well as next three year cycle to ensure seed security in the cluster.
- To undertake seed production; seed producers were identified who possess enough knowledge regarding seed production technology and practice. In this meeting selected and interested farmers took responsibility to produce seed of particular crops as per their choice.
- Projects made available pure seeds in the packet required for seed productions of their chosen crop and variety before rain.
- Farm visits of seed producer farmers were carried out to verify farm condition in context of soil type, access and protection from animals at regular basis.
- On field training on seed production techniques were provided to seed producer farmers of Umedpar, Khengarpar, Dharampur, Jawaharnagar, Ningal and Bhimasar villages. In this training Seed Breeder Farmers were trained to maintain genetic purity of their seed stock. Total 10 farmers from different villages were trained.
- Status of seed production plots is as below:

SN	Name of Farmer	Village	Crop	Seed Breeder Farmer	Purpose	Production (Kg)
1	Bhurabhai Koli	Dharampur	Cluster Bean	Jentibhai	Seed Production	15
2	Savabhai Govindbhai	Dharampur	Cluster Bean	Jentibhai	Seed Production	Crop not reached to production stage
3	Karsanbhai Bhanabhai	Jawaharnagar	Cluster Bean	Jentibhai	Seed Production	10
4	Devabhai Jakhubhai	Jawaharnagar	Cluster Bean	Jentibhai	Seed Production	12
5	Savabhai Chad	Khengarpur	Cluster Bean	Jentibhai	Seed Production	Crop not reached to production stage
6	Meghabhai Dangar	Khengarpur	Cluster Bean	Jentibhai	Seed Production	7.5
7	Panchabhai Kuvadiya	Dhrang	Cluster Bean	Jentibhai	Seed Production	Crop not reached to production stage
8	Jusabhai Chavda	Dhrang	Cluster Bean	Jentibhai	Seed Production	Crop not reached to production stage
9	Upaj	Bhimasar	Sesame (Chhakkad)	Karmanbhai	Seed Production	100
10	Upaj	Bhimasar	Cluster Bean	Jentibhai	Seed Production	Failure
11	Upaj	Bhimasar	Pearl Millet	Atubhai Shiyal	Seed Production	Crop not reached to production stage
12	Upaj	Bhimasar	Moth Bean	Jesabhai Chhanga	Seed Production	60

5. Outcomes:

The project has achieved following results

- *Desi Beej Samiti* has been formed from 2 villages covering 50 farmers for insitu conservation of traditional seeds.
- Seed storage and seed distribution system through farmer institution strategy has been prepared and ready for run in next season.
- Pure traditional seeds for at least 6 major crops are locally available for 150 acre land of rainfed farming.
- 10 seed producer farmers are trained for pure seed production to ensure pure seed production at cluster level.
- Traditional knowledge of seed breeders is validated by modern science of seed breeding.
- This project is showcase for expansion in other villages and clusters too.



6. Financial Reports

Balance Sheet

Satvik : Promoting Ecological Farming
Public Charitable Trust Reg. No. F-1541/Kachchh & Society Reg. No. Guj/1365/Kachchh

Balance Sheet as on 31.03.2017

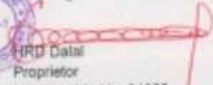
Particular	Annexure	As on	As on	As on	As on
		31-03-2017 - FC	31-03-2017 - NFC	31-Mar-17	31-Mar-16
Funds & Liabilities					
Trust and Corpus Funds	A	-	1,699,487	1,699,487	1,678,049
Other Funds	B	258,708	80,126	338,834	504,970
Unutilized Grant	C	20,001		20,001	-
Total		278,709	1,779,613	2,058,322	2,183,020
Assets & Properties					
Net Block of Fixed Assets	D	-	1,450,131	1,450,131	1,457,315
Investments	E	174,235	260,834	435,009	557,475
Net Current Assets	F	104,474	68,648	173,122	168,230
Total		278,709	1,779,613	2,058,322	2,183,020
Notes forming part of Accounts	O				

For Satvik: Promoting Ecological Farming


Shalish Vyas
Secretary

Place : Bhuj
Dated : **12-AUG 2017**

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


H.R. Dalal
Proprietor
Membership No. 31368

Place : Ahmedabad
Dated : **14 AUG 2017**


Income and Expenditure

Satvik : Promoting Ecological Farming
Public Charitable Trust Reg. No. F-1541/Kachhh & Society Reg. No. Guj/1355/Kachhh

Income & Expenditure Account for the Year Ending on 31.03.2017


Particulars	Annexure	31-03-2017 - FC	31-03-2017 - NFC	31-03-2017 - Total	31-Mar-16
Income					
Grants & Donations	G	311,999	-	311,999	38,911
Other Income	H	-	679,250.00	679,250	912,373
Interest Income	I	23,171	27,306.00	50,477	62,488
Total		335,170	706,556	1,041,726	1,013,772
Expenditure					
Expenditure on objects of the trust	J	397,578	727,060.00	1,124,638	992,701
Contribution to Charity Commissioner	K	-	19,497.00	19,497	10,678
Establishment Cost	L	-	7,972.00	7,972	32,701
Remuneration to Trustee	M	-	-	-	-
Statutory Audit Fees	N	-	28,750.00	28,750	45,900
Depreciation	D	-	7,182.00	7,182	11,652
Transfer to Corpus Fund	A	-	19,822.00	19,822	21,718
Excess of Income over Expenditure	B	(62,408)	(103,727)	(166,135)	(101,278)
Total		335,170	706,556	1,041,726	1,013,772
Notes Forming Part of Accounts	O				

For Satvik: Promoting Ecological Farming


Shefali Vyas
Secretary

Place : Bhuj
Dated : 12 AUG 2017

As per our report of even date
For H. Rustom & Co.
Chartered Accountants
Firm Reg. No. : 10890/W


H. Rustom
Proprietor
Membership No. 31368

Place : Ahmedabad
Dated : 14 AUG 2017



