

**INTEGRATED RURAL COMMUNITY PROGRAM  
OF DEMONSTRATION AND TRAINING  
IN SUSTAINABLE AGRICULTURE**

**(At Salumbre in Block Maval,  
District Pune, Maharashtra)**

**File no. : BT/PR4820/SPD/24/010/2004**

**Three years Progress Report  
For the Duration of  
(Dec. 2004 to Nov. 2007)**

**Submitted to  
Department of Biotechnology  
Ministry of Science and Technology  
Govt. of India, New Delhi**

**Under  
Biotechnology Based Programs For  
Women and Rural Development**

**BY**

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**Two years and Nine Months Progress Report For the Duration  
of  
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**1. File number and title of the project.**

File no.: BT/PR4820/SPD/24/010/2004.

Title : Integrated Rural Community Program of Demonstration and Training In Sustainable Agriculture.

**2. Principal investigators and Co-PI and their complete address.**

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**Date of Birth** : 02.04.1959 **Sex:** Male **SC/ST:** NT

### 3. Date of sanction and completion of the project.

Date of Sanction: 2/12/2004

### 4. Total approved project cost and duration.

Total cost : Rs. 21.21 lacs.

Duration : 3 yrs.

### 5. Year wise grants released so far.

Grant for the first year : Rs. 10.45 lacs.

Grant for the second year : Rs. 4.70 lacs.

Grant Receivable : Rs. 0.58 lacs.

### 6. Project objectives as approved by DBT :

1. To train 360 farmers on important aspects of production and use of vermicompost along with 144 demonstration plots and 6 production units on the farmers' field.
2. To train 360 farmers on cardinal aspects of plant protection and use of bio-control methods. Long duration training to 36 farmers in plant protection and integrated pest management to enable them to work as local resource persons.
3. To train about 180 men, women and entrepreneurs in polyhouse technology.
4. To train 180 women in cattle health care and hygienic milk production. To train 180 women in nutritious cattle feed production.

## 7. Achievements/progress vis-à-vis above objectives

### Summary of training Activities

The project comprises of training programs, field demonstrations and extension activities. These programs are designed to cover both theoretical and practical aspects of the chosen topics. The thrust of these training activities is imparting skill and knowledge to the whole community i.e., farmers and youth, women and teenage girls (adolescent girls), and school students.

Following tables give the comparative account of target and achievements during a span of **two years and nine months** for all the activities

#### 1. Training programs :

Activity	Details	Target for the 1 <sup>st</sup> Year	Target Achieved
Vermicompost	N.Progms.	18	55
	N.O.Partic.	360	753
Plant protection I	N.Progms.	18	59
	N.O.Partic.	360	850
Plant Protection II	N.P.		
	N.O.P.		
Polyhouse	N.Progms.	18	10
	N.O.Partic.	180	226
Cattle Health N. Development Program	N.Progms.	36	42
	N.O.Partic.	180	595
Cattle Nutrition Development Program	N.Progms.	18	47
	N.O.Partic.	180	733
Students	N.Progms.	6	7
	N.O.Partic.	240	324

N.P.-No.Of Training Programs.

N.O.P.-No.Of Participants

### Ist year summary

Village	Vermicompost	Plant Animal Protection	Animal Nutrition	Polyhouse Health	Total	
Salumbre	Progms. 03 Partic. 55	04 77	02 41	02 37	01 15	12 225
Godumbre	Progms. 02 Partic. 31	02 29	01 14	01 30	- -	06 104
Shirgaon	Progms. 02 Partic. 26	01 10	02 53	01 20	- -	06 109
Sangwade	Progms. 02 Partic. 40	02 65	01 75	01 18	02 65	08 263
Gahunje	Progms. 02 Partic. 42	03 42	01 15	01 13	01 23	08 135
Darumbre	Progms. 02 Partic. 73	02 67	01 32	01 18	- -	06 190

### IInd year (general program)

Village	Vermicompost	Plant Protection	Animal Nutrition	Animal Health	Polyhouse	Total
Salumbre	Progms. 02 Partic. 25	01 10	02 34	02 27	- -	07 96
Godumbre	Progms. 02 Partic. 42	01 35	02 29	01 20	- -	06 126
Shirgaon	Progms. 02 Partic. 20	02 24	03 31	01 10	01 19	09 104
Sangwade	Progms. 03 Partic. 53	03 32	01 18	01 18	01 34	06 155
Gahunje	Progms. 01 Partic. 09	01 09	02 28	01 13	- -	05 59
Darumbre	Progms. 01 Partic. 28	02 60	02 33	02 31	01 10	08 162

### IIRD year (lead farmers only)

Village	Vermicompost	Plant Animal Protection	Animal Nutrition	Polyhouse Health	Total	
Salumbre	Progms. 03 Partic. 27	03 35	02 27	03 38	- -	11 127
Godumbre	Progms. 02 Partic. 21	03 26	03 45	03 45	- -	12 137
Shirgaon	Progms. 02 Partic. 13	03 34	03 30	03 30	- -	11 107
Sangwade	Progms. 06 Partic. 58	06 55	02 20	02 19	- -	16 152
Gahunje	Progms. 04 Partic. 34	02 18	03 37	03 37	- -	12 126
Darumbre	Progms. 04 Partic. 41	05 60	02 23	02 23	- -	13 147

### IIIrd year(general program)

Village	Vermicompost	Plant Animal	Animal	Polyhouse	Total	
		Protection	Nutrition	Health		
Salumbre	Progms. - Partic. -	02 13	- -	- -	01 20	03 33
Godumbre	Progms. 01 Partic. 18	02 26	01 08	01 08	- -	05 60
Shirgaon	- -	- -	- -	- -	- -	- -
Sangwade	Progms. 03 Partic. 64	02 57	01 10	01 10	01 10	08 151
Gahunje	Progms. 01 Partic. 04	01 04	01 04	01 04	- -	04 16
Darumbre	Progms. 02 Partic. 42	03 55	01 25	01 25	02 30	09 177

### IIIrd year(lead farmers only)

Village	Vermicompost	Plant	Animal	Animal	Polyhouse	Total
		Protection	Nutrition	Health		
Salumbre	Progms. - Partic. -	01 07	01 14	01 14	- -	03 35
Godumbre	Progms. 01 Partic. 07	01 19	02 32	02 32	- -	06 90
Shirgaon	Progms. - Partic. -	- -	02 17	01 17	- -	03 34
Sangwade	Progms. 01 Partic. 10	01 13	01 12	01 12	01 16	05 63
Gahunje	Progms. 01 Partic. 15	- -	01 14	01 14	- -	03 43
Darumbre	Progms. 01 Partic. 10	01 13	01 12	01 12	- -	04 47

## 2. Demonstrations :

sr	Crops	I ST YEAR		II ND YEAR		III RD YEAR	
		Target	Achievement	Target	Achievement	Target	Achievement
1	Grain	12	16	12	96	12	71
2	Oil seeds	-	76	-	48	-	09
3	Vegetables	12	10	12	07	12	02
4	Sugarcane	-	10	-	01	-	04
5	Flowers	12	03	12	09	12	06
6	Pulses	-	01	-	01	-	-
7	Fodder	12	-	12	02	12	-
	Total	48	116	48	164	48	92



### 3. Establishment of production units

Production Unit	Target	Achievements
Vermicompost	6	7

Production Unit	Target	Achievements
Poly Houses	NIL	26

### 4. Other extension activities

Details	Target	Target Achieved
1. Farmer and women rallies	6	6
2. Students rallies	3	4
3. Exhibition	3	6
4. Exposure visits	6	7
5. Pamphlets for dissemination	5	17
6. Development of training modules	7	7
7. Vaccination Campaign	NIL	4

#### 1. Training programs:

##### I. Production and use of vermicompost :

.These training programs were conducted in all the 6 villages. In the selected six villages there was only one farmer who was producing vermicompost in a very small pit. There were many misconcepts among the farmer population. Initially very few farmers were interested in this topic.

This background was taken into consideration while designing training modules for vermicompost production. More emphasis was given on the practical aspects of the subject. The 2nd year of the training program constituted the practical demonstration of preparation of bed itself in each village. As a result farmers showed increased interest in this simple technology.

Village	TrainingProgram No. of farmers	No. of farm women
1. Salumbre	08	107
2. Godumbre	08	109
3. Shirgaon	06	59
4. Sangawade	15	202
5. Gahunje	09	104
6. Darumbre	10	183
<b>Total</b>	<b>56</b>	<b>764</b>

Along with this program demonstrations for vermicompost application were organised in all seasons in all the six villages. Effects of Vermicompost applications were observed by the farmers on their own fields. This was useful intervention which prompted many of them to start their own production beds. Details of which are given under **point No. 10. of the proforma.**

## **II. Cattle Development program :**

This program covers two aspects; cattle health management and cattle feed and fodder preparation. This training is exclusively designed for women.

**a) Cattle Health management :** In the intitial survey few areas were identified. Based on these the contents of training program were decided. More emphasis was given on Clean & Hygienic cattle shed management, Hygiene of the individual cattle, preventive vaccinations and preventive majors for mastitis. Along with lectures, demonstrations were held in the cattle sheds. Vaccination campaigns were organised. Farm wemen were briefed about the first aid methods and use of domestic materials for the same. Along with this Ayurvedic medicines were also provided for promotion of usgae.

<b>Village</b>	<b>TrainingPrograms</b>	<b>No. of farm-women</b>
1. Salumbre	08	116
2. Godumbre	08	135
3. Shirgaon	06	77
4. Sangawade	06	71
5. Gahunje	07	77
6. Darumbre	07	95
<b>Total</b>	<b>42</b>	<b>571</b>

### **b) Cattle Nutrition Management:**

Nutrition is a critical factor which decides the health of a cattle and economics of the dairy business. During training programs emphasis was given on minimizing the costs on cattle feeding. Optimum and scheduled usage of concertrates, cultivation of fodder crops, use of Azolla as cattle feed, usage of mineral mixtures and methods of feeding were identified as key areas of training.

<b>Villages</b>	<b>Training Programs</b>	<b>No. of farm-women</b>
Salumbre	07	116
Godumbre	09	128
Shirgaon	10	131
Sangawade	06	135
Gahunje	08	94
Darumbre	07	111
<b>Total</b>	<b>47</b>	<b>715</b>

### III. Plant Protection

Plant protection is an area where the farmers need training in order to reduce indiscriminate use of pesticides. This program has two aspects: awareness generation among the large population and special training program for local resource persons.

#### **a. Plant protection I:**

In the beginning a survey was conducted and areas for training were identified. Emphasis was given on soil & water analysis, importance of seed treatment, importance of Micro Nutrients, use of Green Manures, Preparation & use of Herbal Extracts and methods of biological control.

Along with lectures, soil analysis campaign was organised. For seed treatment and herbal extracts preparation demonstrations were organised. Pest & Disease surveys were conducted each year. During farm visits biological control methods were suggested for prevalent diseases & pest infestations.

Village	Training Programs	No. of farmers	No. of farm women
1. Salumbre	11	142	-
2. Godumbre	09	135	-
3. Shirgaon	06	68	-
4. Sangawade	14	206	16
5. Gahunje	07	73	-
6. Darumbre	11	214	11
<b>Total</b>	<b>58</b>	<b>838</b>	

#### **b. Plant protection II**

This special training program is designed for identified farmers who are interested and capable of working as local resource persons.

Year	Participants	Duration	Experts
I	10	3 days	3
II	4	2 days	3
III	10	3 days	3

#### **Topics Covered**

- Year I :**
1. Pests & Diseases - definition, incidence, identification, control methods.
  2. Micro Nutrients
  3. Microscopic Examination of infested plant parts.
- Year II**
1. Crop planning, importance of record keeping.
  2. Hazards of indiscriminate use of chemical fertilizers & pesticides.
  3. Field Management
- Year III**
1. Importance of organic farming.
  2. Factors involved in organic farming.
  3. Organic farming systems for paddy ground Nut, Sugar Cane
  4. Cropping pattern, crop rotation
  5. Crop protection with plant extracts.
  6. Procedures involved in organic farming.
  7. Registration method for organic certification

## List of Local co-ordinators participated

Sr.No.	Name	Village
1.	Shri. Praveen Sahebrao Gopale	Shirgaon
2.	Mrs. Mangal Sanjay Gopale	Shirgaon
3.	Shri.Ganesh Vasant Agale	Godumbre
4.	Shri. Nilesh Krishnaji Bhondwe	Darumbre
5.	Shri. Pramod Vitthal Waghole	Darumbre
6.	Shri.Balasaheb Pandurang Rakshe	Sangawade
7.	Shri. Suresh Ganpat Rakshe	Sangawade
8.	Shri. Sanjay Yeshwant Kulkarni	Gahunje
9.	Shri. Sampat Shivram Rakshe	Salumbre
10.	Shri. Tushar Dattatrey Mokashi	Sangawade

### **IV. Polyhouse technology and cultivation of cut flowers:**

In the polyhouse technology training program, initially meetings with experts were organised. In these interactions, doubts were answered and cases of failures were discussed in details. The well informed motivated farmers were given a 10 days training according to their convenience. Visits to nearby commercial units were also organised. Along with this, a team of farmers along with the project staff visited. Ajinkyatara co-operative society, where farmers have started their polyhouses and are managing the activity on co-operative basis. Finally continuous support of the staff and experts was made available to each of the farmer. Free consultancy was provided from formulation to completion phase of the projects.

Village	Training Programs	No. of farmers	No. of farm women
1. Salumbre	02	20	15
2. Godumbre	-	-	-
3. Shirgaon	01	19	-
4. Sangawade	04	99	26
5. Gahunje	01	23	-
6. Darumbre	02	40	-
<b>Total</b>	<b>10</b>	<b>201</b>	<b>41</b>

### **V. Students' training: Year I : 1) Training program**

Details	Duration	Standard	No. of Participants	Subject
1. Training program-	2 days 13th,14th April 2005	5th to 9th	125	sustainable Agriculture
2. Ralley- conducted by Dr. Sardeshpande	3hrs.- 22.06.2005	6th to 9th	150	Azolla- introduction and importance.

## 2) Ongoing Lectures. (8th and 9th std. students)

Sr no	Topics of lectures	No. of students
1	Cattle breeds	54
2	Digestive system of animal	60
3	Polyhouse structure	60
4	Paddy cultivation	60
5	Paddy cultivation II	60
	<b>TOTAL</b>	<b>294</b>

Training programs -1- Participants - 125

Rally -1- Participants - 150

On going lectures -5-Participants - 294

## IInd year 1) Training programs

Sr.no.	Details	Duration/Date	Std.	No. of participants	Subject
1.	Students training	2days-06.10.2005 & 08.11.2005	7th,8th,9th -Gurukul	60	Polyhouse Technology (Field training)
2.	Student training	1 day	9th	55	'char-sutri' Paddy cultivation & Azolla application
3.	Student training	1 day	8th- Gurukul	06	Vermicompost bed preparation-practice.
4.	Student rally	1 day 07.04.2006	8th,9th	113	Polyhouse,Vermicompost,Animal Science,Plant Protection training.
			<b>TOTAL</b>	<b>234</b>	

## 2) Ongoing Lectures

Sr. no.	Topics	No. of Participants	Standard
1.	Animal Science - importance	50	7th
2.	Milk - importance and Composition	50	7th
3.	Indian cattle breeds	50	7th
4.	Classification of animals	65	8th
5.	Selection of animals	65	8th
6.	Selection of milking animals	55	9th
7.	feeding systems	55	9th
8.	Reproduction	55	9th
9.	Vermicompost preparation	30	8th
10.	Paddy cultivation	65	8th
11.	Azolla application- importance	55	9th
12.	Vermicompost - cleaning and application	65	9th
13.	Biotechnoogy project	10	7th
14.	Biotechnology project	07	8th
15.	Biotechnology project	04	9yjh
16.	Organic manures	65	9th
	<b>Total</b>	<b>746</b>	



Training Programs - 03 Participants - 121  
 Ralley - 01 Participants - 113  
 Ongoing Lectures - 16 Participants - 746

### Illrd year 1) Training Programs

Details	No. of Participants	Standard
1. Student training program- Traps and spraying methods.	25	8th,9th
2. Insect identification	08	9th
3. Student training program- Indigenous systems of insect and pest control.	45	7th
<b>Total</b>	<b>78</b>	

### 2) Ongoing Lectures

Sr.no.	Topics	No. of Participants	Standard
1.	Traps- types and uses	65	8th
2.	Spraying- biocontrol	59	8th
3.	Neem ark making	60	9th
4.	Polyhouse technology (5 lectures)	59	9th
5.	Crop planning	64	8th
6.	Vermicompost making (Darumbre)	69	8th,9th
7.	Vegetable nursery techniques	65	9th
8.	Ayurvedic Veterinary medicines	56	7th
9.	Azolla cultivation and importance	56	7th
10.	Animal feeds	50	8th
11.	Local feeds	56	7th
12.	Practical- Azolla bed making	56	7th
	<b>Total</b>	<b>715</b>	

### Ralley-

19.02.2007	Darumbre	Panchkroshi Vidyalaya	25 Students
28.02.2007	Salumbre	Vidnyan din (5th - 9th std.)	289 Students
			<b>314</b>

Training Programs- 03 Participants- 78  
 Ralley- 02 Participants- 314  
 Ongoing Lectures- 12 Participants- 715

## VI) Lead farmer families

In each year 60 farmer families giving positive responses were identified. All the family members were trained in the training programs. These families were visited monthly for follow-up and consultation. Demonstrations were organised on their fields for all the seasons. In all 180 families were trained through these activities. As a result, number of farmers started adopting desired and useful cultural practices and cattle management practices.

List of inputs which were made available on demand :

1. Vermicompost
2. Vermiculture
3. Decomposing culture
4. Rock phosphate
5. Pheromone traps
6. Mineral mixture
7. Azolla culture
8. Ayurvedic medicines
9. Azotobacter
10. Rhizobium

The farmers adopting various cultural practices were given a ★ .

Sr no	Star status	Sangwade	Gahunge	Darumbre	Godumbre	Shirgoan	Salumbre	Total
1	One	6	8	3	4	1	2	24
2	Two	10	2	7	1	1	6	27
3	Three	5	2	-	1	2	1	11
4	Four	1	-	2	-	-	-	3
5	Five	3	-	-	-	1	-	4
	<b>Total</b>	<b>25</b>	<b>12</b>	<b>12</b>	<b>6</b>	<b>5</b>	<b>9</b>	<b>69</b>

## VII) Establishment of a local guiding agency

All the field supervisors used to visit the fields on call. Along with this there were routine field monitoring visits to lead farmer families. Following is the account of on-field consultation provided

	Vermicompost	Pl. Protection	Cattle management	Polyhouse	Total
Salumbre	46	30	61	7	144
Godumbre	14	27	43	3	87
Shirgoan	19	24	47	5	95
Sangwade	52	64	25	46	187
Gahunge	12	23	27	-	62
Darumbre	50	45	52	17	164
<b>TOTAL</b>	<b>193</b>	<b>213</b>	<b>255</b>	<b>78</b>	<b>739</b>

## Other Extension Activities-

### 1. Rallies

In all 15 rallies were organised during the project period. The details of which are as follows

#### Ist year

Sr. no.	Place	Date	Participants	Subject
1.	Salumbre	03.05.2005	50	soil and water analysis
2.	Sangwade	06.05.2005	60 farmers 50 farmers	soil and water analysis
3.	Salumbre	11.08.2005	33 farmers	vaccination (75 animals vaccinated)
4.	Darumbre	03.09.2005	175	vermicompost (organic farming)
5.	Salumbre	30.11.2005	32 farmers 3 farmers	women entrepreneurship development program.

#### IIInd year

Sr. no.	Place	Date	Participants	Subject
1.	Salumbre	05.01.2006	50	polyhouse technology
2.	Gahunje	04.03.2006	110	plant protection- biocontrol, low cost farming.
3.	All villages	6 15th to 21st June 2006	160 farmers	vaccination campaign (575 animals vaccinated)

#### IIIrd year

Sr. no.	Place	Date	Participants	Subject
1.	All 22nd villages except Godumbre	05.12.2006-09.12.2006	524 (139 farmers)	vaccination campaign (H.S. & B.Q.)
2.	Salumbre	19.08.2007	160 women	self help groups and income generating activities.
3.	All 5 villages except Godumbre	05.12.2006-09.12.2006	102 farmers	vaccination campaign (295 animals)
		<b>TOTAL</b>	<b>401</b>	



## 2. Exposure visits :

In all 7 exposure visits were organised during the project period. The details of which are as follows :

### Ist year

Sr. no.	Date	Participants	Place	Remarks
1.	20.09.2005	7 farmers	Ajinkyatara co-op society, Satara	Polyhouse : Sangwade farmers.
2.	05.11.2005	105 farm women 10 farmers	Warananagar, Salumbre women ( in kambalwadi village and panchayat, Salumbre) Kolhapur.	collaboration with gram

### IInd year

Sr. no.	Date	Participants	Place	Remarks
1.	20.05.2006	23	Baramati Krishi Vigyan kendra	Salumbre farmwomen and farmers
2.	20.09.2006	21	Babhaleshwar krishi vigyan kendra	Darumbre farmers

### IIIrd year

Sr. no.	Date	Participants	Place	Remarks
1.	17.01.2007	19 farmwoman 9 farmers	M.P. Agri. University, Rahuri and Wambori (Business group)	Darumbre women and farmers one day visit.
2.	09.03.2007	11 farmwoman	Kalamb, Tal. Ambegaon	Neem cake business unit (Sangwade women)
3.	13.07.207	57 students	M.P. Agriculture college, Pune Gram-Prabodhini Highschool.	7th, 8th & 9th std. students:

8. Deviation, if any, from the project objectives and reasons thereof.

NIL

## 9. Details of field demonstrations laid under the project (size of plot, crops, beneficiaries and field photographs).

A survey was conducted for identification of farmers who were willing to participate in demonstrations of use of vermicompost. An orientation session was conducted for every village.

In every project village, demonstration plots were developed for vermicompost application. In all 271 farmer families from 6 villages participated in demonstrations. These families were visited time-to-time for regular follow-ups and monitoring. Following are the details of these visits:

**Visit I - Orientation**

**Visit II – Vermicompost distribution**

**Visit III – vermicompost application**

**Visit IV – Follow-up and observation ( after 15 days / at emergence )**

**Visit V – Follow up and observation (after 45 days / post emergence )**

**Visit VI – Post harvest visit - yield observations**

### Details of demonstration plots

VILLAGE PLOT DETAILS		YEAR		
		I	II	III
<b>Salumbre</b>	Kharip - (June-Sep)			
	oilseed/gr. nut	12	11	09
	grain/rice	01	07	04
	sugarcane	01	—	—
	Rabbi - (Sep-Jan)			
	grain (wheat)			
	vegetables	02	14	—
	sugarcane	02	—	—
		01	—	—
	Summer -			
flowers	—	02	02	
<b>Total</b>	<b>19</b>	<b>34</b>	<b>16</b>	
<b>Godumbre</b>	Kharip -			
	gr. nut	13	11	—
	grain(rice)	01	11	—
	pulses	01	—	—
	Rabbi -			
grain(wheat)				

	vegetables	03	09	—
	sugarcane	03	—	—
		02	—	—
	Summer -			
	<b>Total</b>	<b>23</b>	<b>31</b>	<b>11</b>
<b>Shirgaon</b>	Kharip -			
	ground nut	12	06	—
	grain(rice)	01	03	—
	vegetables	02	—	—
	Rabbi -			
	grain(wheat)			
	vegetables	02	07	—
	sugarcane	01	—	—
	fodder crop	02	—	01
	pulses	—	01	—
		—	01	—
	Summer -			
	flowers			
	vegetables	—	03	01
	grain(bajra)	—	01	01
		—	—	01
	<b>Total</b>	<b>20</b>	<b>22</b>	<b>14</b>
<b>Sangwade</b>	Kharip -			
	ground nut	14	04	—
	grain(rice)	01	06	19
	Rabbi -			
	grain(wheat)	01	08	—
	sugarcane	01	01	—
	flowers	02	02	—
	vegetables	—	01	—
	Summer -			
	flowers	—	01	02
	perennials	—	—	01
	<b>Total</b>	<b>19</b>	<b>23</b>	<b>22</b>
<b>Darumbre</b>	Kharip - ground. nut	13	09	—
	grain(rice)	02	04	16
	Rabbi -			
	grain(wheat)	01	10	—
	vegetables	01	03	—
	fodder crop	—	01	—

	Summer- flowers vegetables sugarcane	— — —	01 01 —	— 01 01
	<b>Total</b>	<b>17</b>	<b>29</b>	<b>18</b>
<b>Gahunje</b>	Kharip - ground nut grain(rice) vegetables	12 01 01	07 09 —	— 11 —
	Rabbi - flowers sugarcane grain(wheat) vegetables	01 02 — —	— — 08 01	— — — —
	Summer - perennials	01		
	<b>Total</b>	<b>18</b>	<b>25</b>	<b>11</b>

### Details of participants

<u>Sr no</u>	<u>Villages</u>	<u>No of families</u>
1	Salumbre	46
2	Godumbre	47
3	Gahunje	42
4	Shirgoan	43
5	Darumbre	47
6	Sangawade	46
	<b>TOTAL</b>	<b>271</b>

**10. Number of beneficiaries of the project (Please annex a list giving their name, address and their approximate earning per month supplemented by the project).**

### Vermicompost production Units - 1st year

Name of the farmer	Village	No. of beds	Size of beds	Compost Produced (Tonns)	Total Cost	No. of Cycles
1. Govind K Rakshe	Sangwade	04	20x03	109.44	4,37,000	32
2. Ananda G Gopale	Shirgaon	03	20x03	41.04	1,64,000	16
3. Sahebrao R Rakshe	Salumbre	01	15x03	0.654	02,616	01
4. Pravin S Gopale	Shirgaon	02	20x03	54.72	2,18,880	32
5. Pramod V Vaghole	Darumbre	01	15x03	20.93	83,720	32
6. Dilip M Vidhate	Salumbre	01	15x03	1.96	07,840	03

7. Bhausaheb Panmand	Sangwade	01	20x03	8.55	34,200	10
8. Ganesh V Agale	Godumbre	01	15x03	20.93	83,720	32
9. Dattatrya Chavan	Sangwade	01	15x03	06.50	26,000	10
10. Sanjay Y Kulkarni	Gahunje	Vermiwash	-	100 ltrs	04,000	
11. Sampat S Rakshe	Salumbre	01	10x03	01.28	05,120	10
12. Shantaram Rakshe	Salumbre	02	15x03	41.86	1,67,000	32

### II year

Name of the Farmer	Village	No. of beds	Size of the bed	Compost Produced (Tonns)	Total Cost	No. of Cycles
1. Gulab G. Bodke	Gahunje	01	10x03	06.40	26,000	15
2. Dnyaneshwar Rakshe	Salumbre	01	15x03	09.81	39,240	15
3. Ashok S. Rakshe	Salumbre	01	15x03	09.81	39,240	15
4. Ramesh S. Gopale	Shirgaon	01	15x03	13.08	52,000	20
5. Appaaso N. Gopale	Shirgaon	01	15x03	06.54	26,000	10
6. Shankar R. Vaghole	Darumbre	02	15x03	41.86	1,67,000	32
7. Navnath H. Gopale	Shirgaon	01	15x03	13.09	52,000	20
8. Balasaheb P. Rakshe	Sangwade	02	25x03	41.24	1,65,000	32
9. Suresh B. Rakshe	Salumbre	01	15x03	07.19	28,760	11
10. Tushar Mokashi	Sangwade	03	20x03	28.21	1,12,840	10
11. Grampanchayat	Shirgaon	02	15x03	14.50	58,000	10
12. Grampanchayat	Salumbre	02	15x03	03.85	15,400	02
13. Grampanchayat	Sangwade	01	10x03	00.86	03,340	01
14. Nilesh Bhondve	Darumbe	01	15x03	05.60	22,400	01
15. Ganesh V. Panmand	Sangwade	02	15x03	10.90	43,600	02

### IIIrd year

Name of the Farmer	Village	No. of Beds	Size of bed	Compost Produced	Total cost	No. of Cycles
1. Vasant Bhondve	Darumbre	01	10x03	02.56	10,240	01
2. Gidvani Farm	Darumbre	01	15x03	-	-	01
3. Moraya Rakshe	Sangwade	01	15x03	-	-	01

### List of commercial vermicompost units

Name	Village	No. of beds	Size of bed	Compost Produced (Tonn)	Total Cost	No. of Cycles
1. Govind K. Rakshe	Sangwade	04	20x03	109.44	4,37,000	32
2. Shantarm V. Rakshe	Salumbre	02	15x03	041.86	1,67,000	32
3. Ashok S. Rakshe	Salumbre	01	15x03	09.81	39,240	15
4. Appaso N. Gopale	Shirgaon	01	15x03	06.54	26,000	10
5. Grampanchayat	Shirgaon	02	15x03	14.50	58,000	10
6. Grampanchayat	Sangwade	01	10x03	00.86	03,440	01
7. Gidvani Farms	Darumbre	01	15x03	-	-	01

## List of polyhouse owners

Sr.no.	Name of the farmer	Area	Crop	Year of starting
1	Pravin Gopale	40R	Rose	2005
2	Ganaput Rakshe	10 R	Rose	2006
3	Ganesh Panmand	10R	Rose	2006
4	Anil N. Rakshe	10 R	Rose	2007
5	Suresh rakshe	10R	Gerbera	2006
6	Sopan Rakshe	10R	Gerbera	2006
7	Kailash Mokashi	8R	Gerbera	2006
8	Shahaji Rakshe	10R	Gerbera	2006
9	Popat Rakshe	15R	Gerbera	2006
10	Balu Rakshe	5R	Gerbera	2006
11	Somnath Rakshe	16R	Gerbera	2006
12	Balu Panmand	5R	Gerbera	2007
13	Subhash Amale	10R	Gerbera	2006
14	Bhausahab Panmand	20 R	Carnetion	2006
15	Balasaheb Rakshe	8R	Carnetion	2006
16	Shivaji Amale	10 R	Carnetion	2006
17	Ankush Rakshe	10 R	Carnetion	2006
18	Sandeep Limhan	10R	Carnetion	2006
19	Bhagaji Buchade	10 R	Carnetion	2007
20	Anil P. Rakshe	10 R	Foundation	2006
21	Bhasker Limhan	10 R	Foundation	2006
22	Dasharath Rakshe	10 R	Foundation	2006
23	Subhash Rakshe	10R	Foundation	2006
24	Hiramen Bodke	10 R	Foundation	2006
25	Vikas Waghole	10 R	Foundation	2006
26	Pratap Bodke	5 R	Nursery	2007

## Woman entrepreneur -

Ms.Chayatai Sawant has sold 150 kg of minaral mixture during last 8 months in project villages.

## List of Farmers participating in demonstrations

Following are the lists of beneficiaries participating the demonstrations-

### Year I : Batch -I

Sr.no	SALUMBRE:	Cast	GODUMRE:	Cast
1	Names		Names	
2	Sahebrao Ramrao Rakshe		Bhagvan Baburao Savant	
3	Shantaram Vithoba Rakshe		Rahul Pandurang Savant	
4	Santosh Gulabrao Rakshe		Maruti Shivram Savant	
5	Sampat Shivram Rakshe		Vijay Kashinath kadam	OBC
6	Dhananjay M. Vidhate	OBC	Jalindar Maruti Savant	
7	Dilip Maruti Vidhate	OBC	Ganesh Vasant Agale	SC
8	Mrs.Shobhatai Suresh Rakshe		Dattatray Baban Savant	
9	Vikas Sahebrao Agale	SC	Devram Pandurang Chorge	
10	Mrs. Anjanatai Bhagvan Tilekar		Dhananjay Vaman Chorge	
11	Vijay Sakharam Rakshe		Balu Bapurao Chorge	



	<b>SHIRGAON:</b>		<b>SANGAWADE:</b>	
<b>Sr.no.</b>	<b>Names</b>	<b>Cast</b>	<b>Names</b>	<b>Cast</b>
1	Maruti Ananda Gopale		Bhausahab Shripati Panmand	
2	Sunil Bhagvan Gopale		Ankush Tukaram Rakshe	
3	Ganpat Bhau Gopale (Patil)		Bharat Machhindra Liman	
4	Nivruti Gopale		Sanjay Raghu Mokashi	
5	Gulab Gopale		Subhash Pandharinath Amle	
6	Dnyaneshwar Gopale		Vilas Haribhau Rakshe	
7	Shantaram Gopale		Govind Kashinath Rakshe	
8	Mrs. Geetatai Sudam gopale		Raju Narayan Rakshe	
9	Vijay Vishnu Gopale		Kailas Gangaram Mokashi	
10	Ravindra Sahebrao Gopale		Gorakh Baban Liman	

	<b>GAHUNJE:</b>		<b>DARUMBRE:</b>	
<b>Sr.no</b>	<b>Names</b>	<b>Cast</b>	<b>Names</b>	<b>Cast</b>
1	Ramesh Balwant Bodke		Baban Dhondiba Vaghole	
2	Madhukar Ramchandra Bodke		Pramod Vitthal Vaghole	
3	Gulabrao Gajaba Bodke		Baban Haribhau Valhekar	
4	Sadashiv Ramchandra Bodke		Tanaji Vithoba Sorte	
5	Devram Gajaba Bodke		Lakshman Dhondiba Valhekar	
6	Manohar Eknath Bodke		Hiraman Vitthal Sorte	
7	Bhikoba Pandurang Bodke		Sitaram Dhondiba Vaghole	
8	Dinkar Baburao Bodke		Ramchandra Shivram Shitole	
9	Dnyaneshwar Gajaba Bodke		Gulab Sudam Vaghole	
10	Gorakshnath Baburao Bodke		Nandkumar Dattu Sorte	

## Year II : Batch - II

<b>Sr.no</b>	<b>Salumbre</b>	<b>Cast</b>	<b>Godumbre</b>	<b>Cast</b>
1	Balkrishna Sopan Rakshe		Balu Gopal Sawant	
2	Balkrishna ananda Rakshe		Vijay Bajirao Sawant	
3	Suresh Bhikaji rakshe		Gulabrao Vithoba Sawant	
4	Rambhau Bhikaji Rakshe		Sunil Nivrutti Sawant	
5	Dhanjay Sahebrao Rakshe		Kondiba Lakshaman Choranghe	
6	Rahul Dinkar Vidhate	OBC	Swapnil Baburao Choranghe	
7	Ashok Rakshe		Dattatraya Sakharam Sawant	
8	Dnyaneshwar Mhadu Rakshe		Popot Dagadu Agale	SC
9	Tanaji Rakshe		Maya Popat Choranghe	
10	Alalkatai Rakshe		Sunanda Maruti sawant	

Sr.no	Shirgoan	Cast	Sangawade	Cast
1	Ramesh S. Gopale		Suresh Ganaput Rakshe	
2	Mangesh Bhaguji Gopale		Dattatraya Govind Kale	
3	Vitthal Dashrath Gopale		Jalinder Krushanaji Limhan	
4	Ashatai Gopale		Subhash Chandrakant rakshe	
5	Durga Dattu Gopale		Balasaheb Pandurang Rakshe	
6	Rajaram Gopale		Balasaheb Rakshe	
7	Navnath Gopale		Sharada Shivaji Amale	
8	Ramdas Khandu Aragade		Dattatraya Chavan	
9			Vinyak Nanabhau Limhan	

GAHUNJE:		DARUMBRE:		
Sr.no	Names	Cast	Names	Cast
1	Yashwant Baburao Bodake		Shivaji Dnyandev Waghole	
2	Subhash Kashinath Bodake		Baban Babusaheb Waghole	
3	Narahari Vitthal Bodake		Shankar Raghunath Waghole	
4	Kisan Ramchandra Bodake		Shivaji Eknath Waghole	
5	Sudam Bikhoba Bodake		Laxman Shivram Waghole	
6	Sarita Damodar Bodake		Vitthal Maruti Waghole	
7	Vishnu Dharmaji Bodake		Surekha Dnyanoba Waghole	
8	Pandurang Bodake		Baburao Pandurang Waghole	
9	Kashinath Bodake		Bebitai Tanaji Dhamale	
10	Sanjay Yeshwant Kulkarni		Raju Prakash Sorte	

Year III

Sr.no.	Salumbre	Cast	Godumbre	Cast
1	Malhari Rakshe		Baban Malhar Choraghe	
2	Balasaheb Dagadu Vidhate		Dhanjaya Vaman Choraghe	
3	Ravi Vidhate		Lalita Chimaji Choraghe	
4	Ramdas Sadashiv Rakshe		Baban Gopal Sawant	
Sr.no.	Shirgoan	Cast	Sangawade	Cast
1	Arun Namdev Gaikwad	SC	Ratikant Rambhau Jagtap	SC
2	Sudam Dagadu Gopale		Bhaguji Ganapat Buchade	
3			Balasaheb Govind Kale	
4			Anil Nivrutti Rakshe	
5			Shahaji Rakshe	
6			Balu Rghu Rakshe	



7			Popat Rakshe	
8			Sandeep Shantaram Limhan	
9			Ganpat Anant Rakshe	
10			Somanath Rakshe	
11			Tukaram Maruti Rakshe	
12			Sopan Rakshe	
13			Dasharath Rakshe	
14			Anil Prahlad Rakshe	
15			Tushar Mikashe	
16			Bhaskar Limhan	
17			Ganesh Vilas Panmand	
18			Balu Panmand	

Sr.no.	GAHUNJE:	Cast	DARUMBRE:	Cast
1	Chandrakant Kashinath Bodake		Kaluram Savaleram Waghole	
2	Laxman Ganpat Bodake		Uttam Dnyandev Waghole	
3	Bhimashankar Bodake		Vitthal Dagadu Waghole	
4	Hiramn Bodake		Dhondiram Waghur Waghole	
5			Dnyanoba Abu Waghole	
6			Atmaram Kisan Waghole	
7			Baban Dagadu Waghole	
8			Rohidas Keru Waghole	
9			Raju Yeshwant Waghole	
10			Ganesh Subhash Waghole	
11			Jaiwant Kisan Waghole	
12			Vikas Maruti Waghole	
13			Sitaram Ganap Waghole	
14			Dhananjay Waghole	
15			Appu Pundalik Waghole	
16			Yuvraj Waghole	
17			Ankush Murlidhar Sorate	
18			Vishnu Bhimaji Sorate	
19			Dilip Madhu Lohare	
20			Bandu Dattu Lohare	

## 11. Year wise number of beneficiaries trained through the project.

Sr no	Activity	Year I	Year II	Year III	Total
1	Training programs	1151	1619	809	3579
2	Demonstrations	89	102	80	271
3	Rallies	553	433	768	1754
4	Exposure visits	132	44	96	272
	<b>Total</b>	<b>1925</b>	<b>2198</b>	<b>1753</b>	<b>5876</b>

## 12. Summary of the progress.

The main theme of the project is to introduce practices which will reduce the expenditure on external inputs in agriculture. Also it comprises of training the rural population in agriculture related income generating activities.

This three year community training program constituted 5 major training components viz. Vermicompost production and use, plant protection, Cattle health management, cattle nutrition management and polyhouse technology. Separate training programs were conducted for farmers, farmwomen and students.

Under this extension activity, in all 220 training programs were conducted which were attended by 3579 participants. 271 Demonstrations of vermicompost application were arranged on farmers fields. During the project period, 7 Exposure visits and 15 rallies were organised for awareness generation. Apart from selected 6 villages, 190 farmers from surrounding 10 villages have also participated in various training programs.

180 lead farmer families were identified and were trained throughly. As a result in all 69 farmers from six villages have started adopting various cultural and cattle management practices. Out of 180 families 30 farmer families have started their own vermicompost production beds out of which 6 are commercial units. 26 farmer families have taken up polyhouse project. In 19 polyhouses actual production has started for last eight months. A woman from Godumbre has started her own small enterprise of sale of Mineral Mixtures.

As a part of project objectives a local guidance has started functioning very well. At present only 6 project villages are covered.

**13. Abbreviations of difficult words:**

--- Not Applicable ----

**Ms. Sangeeta Kulkarni  
( P.I. )**

**Mr. V. M. Bhatane  
( Co-P.I. )**

**Place: Pune**

**Date: 17-09-07**



# INTEGRATED RURAL COMMUNITY PROGRAM OF DEMONSTRATION AND TRAINING IN SUSTAINABLE AGRICULTURE

AT-SALUMBRE  
(MAHARASHTRA)



BY  
JNANA PRABODHINI,  
PUNE (MAHARASHTRA)



**TRAINING PROGRAM FOR SMALL GROUP**



**TRAINING PROGRAM FOR SMALL GROUP**

## **TRAINING PROGRAM**



**TRAINING PROGRAM FOR LARGE GROUP**



**TRAINING PROGRAM FOR LARGE GROUP**



**FIELD VISIT AND PERSONAL TRAINING**



**TRAINING PROGRAM FOR SMALL GROUP**

# **TRAINING PROGRAM**



**TRAINING PROGRAM FOR SMALL GROUP**



**TRAINING PROGRAM FOR SMALL GROUP**



**VERMICOMPOST APPLICATION**



**VERMICOMPOST APPLIED PLOT**

## **VERMICOMPOST DEMONSTRATION PLOTS**



**Follow-up and observation after 45 days**



**Follow-up and observation after 45 days**





**AJINKTARA CO-OP SOC. SATARA**



**K.V.K. BABHALESHWAR**

# **EXPOSURE VISITS**



**K.V.K. BARAMATI**



**M.P.A.U. RAHURI**



**VACCINATION CAMP ON FIELD**



**VACCINATION CAMP ON FIELD**

# **RALLIES**



**WOMEN ENTERPRENUERSHIP RALLY**



**SOIL AND WATER ANALYSIS CAMP**



**PLANT PROTECTION RALLY**



**ORAGNIC FARMING RALLY**

# **RALLIES**



**WOMEN ENTERPRENUERSHIP RALLY AT SANGWADE**



**POLYHOUSE TECHNOLOGY RALLY**



**STRUCTURE**



**BED PREPARATION**

# **POLYHOUSE**



**PLANTTATION**



**FLOWERS**



**CATTLE HEALTH TRAINING**



**ORGANIC FARMING TRAINING**

# **STUDENT TRAINING**



**ON GOING LECTURES**



**POLY HOUSE TRAINING**



**BED PREPARATION FIRST LAYER**



**BED PREPARATION SECOND LAYER**

# **VERMICOMPOST**



**RELEASE OF VERMICULTURE**



**PICKING UP VERMICOMPOST**