



Annual Report

2010- 2011

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INTRODUCTION

Since its inception, AVANI tried to develop disciplined enterprise around the technology and income generation programs to make them responsible to the community, funders and other stakeholders. Donor funding for such programs is a must to develop enterprise in remote areas with poor transportation, communication and infrastructure facilities as well as lack of trained human resource. As the enterprise has gained strength over the years, the need for expansion/upscaling can be met through investment funding. We need to explore this direction for the textile and energy enterprise that AVANI has spawned.

Exploring this direction has been challenging, scary and exciting, all at the same time. We need a fair mix of donor and investment funding for this upscaling to make the enterprise robust. We also need to look at new structures to facilitate this transition. The award of scholarship at Santa Clara University in California to work on the business plan for pine needle gasifier project is a step to explore that direction.

The textile enterprise has gained strength in developing a larger customer base. We have to look at the ways of upscaling and are in the process of identifying the existing bottlenecks for this. There is a clear need to explore new organizational structures to attract capital necessary for this upscaling.

The solar energy enterprise has shown an increase of 50% in business. Though this is mostly due to institutional business that we were able to generate, we have also initiated the process of financing the solar systems purchase by the users through micro-credit provided by Regional Rural Bank in Uttarakhand. This is only a beginning and we still need to work on simplifying the paperwork to facilitate flow of micro-credit to the users. In the coming year, we have the challenge of gearing ourselves to respond to the market forces and streamlining production systems in both the solar and textile enterprise program.

We are also in the process of starting a school, beginning with the preschool children for kids of AVANI employees and kids in the nearby villages. The idea is to teach these children by alternative child friendly methodology during the foundation years.

A community health program focusing on preventive health care and upgradation of skills of the local mid-wives has been started with support from Volkart Foundation this year. The idea is to set up better systems for ante-natal and post-natal care and to expand the role of mid wife to a more holistic care giver.

We would like to once again, extend a special word of thanks to the all the friends and well wishers who have helped promote Avani's work and provided their invaluable support and contribution in our endeavors.

The table below provides a summary of the activities being coordinated by the five field centers of Avani.

S.N.	Name of Village	Textiles	Solar Installations	Sericulture	SHG Savings and Credit	SHG working with IGP	Vermi Composting	Biogas	Girl Child Education	Community Health	Pine Needle Collection	Rain Water Harvesting
	DHARAMGHAR CENTRE											
1	Simgarhi	√	√		√	√	√		√			√
2	Saukyura	√	√									√
3	Dharamghar	√	√		√	√						√
4	Mehrodi		√	√	√	√	√		√			√
5	Lamgingra		√		√	√	√					
6	Thuma	√	√									
7	Dhura	√										
8	Darati	√										
9	Basti		√	√	√				√			
10	Dudila				√				√			
11	Majhera		√									
	DIGOLI CENTRE											
1	Mana	√	√	√	√	√	√		√	√		
2	Digoli	√	√	√	√	√	√	√	√	√		√
3	Dhoulani	√	√	√	√	√	√			√		
4	Matkoli	√	√	√	√	√	√			√		
5	Kaligar	√										
6	Nayal	√										

7	Dana	√	√	√			√					
8	Raitoli			√								
9	Dewal		√	√								
10	Silingya		√		√	√						
11	Chantola		√	√	√	√	√		√			√
12	Aulani	√	√		√	√			√			
13	Simayal	√	√	√	√	√			√			√
14	Thanga	√	√	√	√	√	√		√			
15	Rawatsera		√									
16	Bhanyun		√					√				
17	Nargoli			√								
18	Devlet			√		√						
19	Dhanad			√		√						
20	Paithan					√						
21	Dhura					√						
22	Talara					√						
23	Pata Dungari			√								
24	Saniudiyar			√								
25	Doula			√								
25	Kanyagad			√								
26	Letgari			√								
27	Panigad			√								
28	Bheta			√								
	TRIPURADEVI CENTRE											
1	Tripuradevi	√	√	√	√	√	√	√	√		√	√
2	Bhandari gaon	√										
3	Raiagar	√							√			√
4	Bana	√			√	√						
5	Manipur	√										
6	Hasyuri	√			√						√	
7	Borakhet	√		√								
8	Busail		√									
9	Mungraon	√			√	√						
10	Berinag	√			√							
11	Sera Pahar				√	√						
12	Rawalgaon				√	√	√					
13	Sela				√		√		√			
14	Kanurpani				√				√			
15	Julagaon				√		√		√			
16	Pipli				√							
17	Jakheri			√	√	√			√			
18	Syalve			√								
19	Varsayat			√								
20	Hipa		√	√								
21	Jula			√	√				√			
22	Salan		√									
23	Gurena Rajwar		√									

S.N.	Name of Village	Textiles	Solar Installations	Sericulture	SHG Savings and Credit	SHG working with IGP	Vermi Composting	Biogas	Girl Child Education	Community Health	Pine Needle Collection	Rain Water Harvesting
24	Bahilkote		√	√								
25	Seragada		√									
26	Falarao Kharchour		√									
27	Rai			√					√			
28	Byati			√					√			
29	Bhingari			√								
30	Balta				√				√			
31	Sainikhet			√								
32	Musalgar			√								
33	Nalli			√								
34	Baisali			√								
35	Kafali			√								
36	Jhuni	√										
37	Dobargara	√	√									
38	Pooussa			√								
	CHANKANA CENTRE											
1	Chankana	√	√	√	√	√	√		√	√		√
2	Muni	√		√								
3	Goda	√										
4	Pungarkholi	√										
5	Lingurani	√		√								
6	Majhera			√								
7	Seena			√								
8	Gadtir	√							√			
9	Bhanelgaon	√										
10	Puring	√										
11	Patoli			√								
12	Belkote			√				√				
13	Puranathal			√								
14	Dangigaon			√								
15	Khaitijolli		√	√								
	SUKNA CENTRE											
1	Sukna	√	√	√	√	√	√		√	√		√
2	Ghangal	√	√					√				
3	Baneni	√	√						√			
4	Rammandir	√						√				
5	Dhaulani	√										
6	Gwal	√										
7	Golti		√	√								
8	Chak			√	√				√			
9	Okharani				√							

Following are the details of the activities undertaken by AVANI during the year 2010-11.

2. DEVELOPMENT AND DISSEMINATION OF RENEWABLE ENERGY TECHNOLOGIES

2.1 Solar Photovoltaics

A. Dissemination

We have been working with the dissemination of solar technology in the villages of Kumaon since 1997 and have taken solar lighting directly to 2204 Families in more than 254 villages and hamlets in these thirteen years. 12 KWp capacity solar power plants and 7000 liter per day capacity solar water heating systems have also been set for lighting and production purposes in production centers hospitals and schools and guest houses, benefitting almost 20,000 people directly and indirectly.

AVANI participated in the International Design Development Summit (IDDS) at Colorado State University in US to develop a strategy for reaching out to BOP families and upscaling the business. We need to have appropriate organization structures to bring necessary capital for this and discussions are on to find the right direction.

This year, a total of 220 families and 200 school children got direct access to solar lighting through our work.

This program continues to be managed through a network of 24 village level solar committees that are self-reliant financially and have trained technicians to repair and maintain the installed systems. Newly formed Energy and Environment Committee (VEEC) in Jhuni village of high altitude Saryu valley in District Bageshwar is expanding its work in the installation of solar home lighting systems. This year we installed 31 more LED based solar home

lighting system in the Jhuni village. Total 55 lighting systems has been installed in this village till now. This network of samitis continues to facilitate **the transfer and handling of funds as well as dissemination of AVANI' s** programs at the village level. In this year Thanga and Mana VEEC facilitated making of a eri silk rearing house in the village of Musalgar, Simayal and Bajet.

To add to our dissemination strategy to reach out to Base Of Pyramid (BOP) families who still live on Kerosene wick lamps for lighting, apart from bringing together these families with VEECs to provide credit to these BOP families, we have set up linkages with the Uttarakhand Regional Rural Bank to provide micro credit to families needing solar lighting. It is only a beginning as 5 families have accessed the credit so far. We have to work with the bank on simplifying the complicated and time consuming paper work, which is a major impediment in popularizing this micro finance scheme of the bank with solar energy users.

This year, a solar lighting project was completed for residential Himalayan Public School in Chwokori, which is about 17 kilometers from our centers. This project was funded by US based Himalayan Education Foundation and 200 students as well as teachers are now able to use solar lights for their studies and daily chores.

The 220 families covered include 62 families who got solar powered charkhas (spinning wheels) cum lighting to facilitate quality spinning for income generation of families and provide solar lights.

Also:

- 52 batteries have been provided for replacement in the existing solar lighting systems in the villages.

- The samitis have provided credit facility to poor families to purchase solar lighting systems. A loan of Rs 11,68,780 has been extended to 208 families so far. Out of this, Rs 9,93,450 has already been recovered during the past seven years.
- Credit facility of Rs 6,600 provided in year 10-11 to 3 families.
- A loan of 3,34,700 was also provided from the technology fund for installation of solar powered charkhas and lighting systems. A total of Rs. 1,03,747 has been recovered till now. Out of this, Rs 70,797 has been recovered during this year.
- The total maintenance fund collected in 24 village samitis until the year 2011 is Rs 46,15,899.
- The solar workshop at AVANI has nine technicians including five women..
- The details of the fund collected in these samitis are given in table 1 and table 2

Table 1

Name of the Village Samiti	Maintenance Fund collected in 2010-11	Total Fund collected until 31 st March 2011	Credit provided in year 10-11	Total Credit assistance provided until 31 st March 11	Recovery of the loan until 31 st March 11	Contribution from Samiti towards Salary of Solar Technicians 10-11
Dewal-A	12,500	1,06,924	0	11,980	7,970	0
Dewal-B	0	6,270	0	0	0	0
Saukyura	5,060	45,395	0	43,130	29,500	0
Silingya	12,000	1,33,818	0	1,05,630	59,670	0
Mana	10,400	1,27,814	2,200	98,040	88,380	0
Mehrodi	6,260	2,14,606	2,200	3,79,570	3,53,800	0
Thanga	7,350	2,75,346	0	2,33,610	2,01,340	0
Uderiya	9,000	80,315	0	0	0	0
Rawatsera	5,420	91,858	0	5,990	5,000	0
Bhanyun	2,430	1,76,268	0	30,000	1,05,000	0
Chantola	5,600	1,53,426	0	47,920	30,970	0

Simgarhi	14,080	1,80,730	2,200	1,57,990	65,500	0
Udiyari	0	50,602	0	0	0	0
Dharamghar	0	9,028	0	0	0	0
Koirali	0	8,206	0	7,000	1,200	0
Simayal	2,560	1,80,508	0	47,920	45,120	0
Jhuni	56,000	80,000	0	0	0	0
Total	1,48,660	19,21,114	6,600	11,68,780	9,93,450	0

Table 2

Villages covered under Rural Electrification Scheme	Maintenance Fund collected during the year 10-11	Total Fund collected until 2011	Contribution of the Samiti towards salary of Solar Technicians 10-11
Busail	0	3,01,890	0
Gurna Rajwar	0	56,030	0
Bahilkote	0	57,740	0
Hipa	12,000	2,99,650	0
Golti	23,120	4,76,060	1,830
Seragada	15,000	3,36,600	0
Falrao Kharchor	7,000	1,34,710	0
Total	57,120	16,62,680	1,830

The details of items manufactured as well as the income of the solar workshop are given in table 3.

Table 3

Item	Manufactured	Sold
Lantern 12 volt	18	6
Lantern 6 volt	121	79
Total Lanterns	139	85

CFL Lamps/ LED Lamp	334	250
SHS		66
Solar Torch		7
Batteries		112
Income from Sale of Lanterns/Lamps		2,46,090
Income from Sale of accessories/repair		77,636
Income from sale of Torches		1,900
Income from Sale of Batteries		2,01,875
Income from sale of Solar Street light		4,500
SHS sale		5,06,650
Other		13,990
Income from solar services		94,200
Income from training		40,000
Total Income		11,86,841

B. Capacity Building

It is our endeavor to develop local capabilities in repair, maintenance and manufacture of solar equipment and we continuously undertake training of rural youth to facilitate this process. As reported in the past years, we have trained several rural youth in these functions and the workshop at AVANI is completely managed by some of these young people. During the year, a total of 3 youth from different villages were trained as solar technicians and fabrication of solar water heaters.

The details of the trainings are given in Table 4.

Table 4

Name of Village/Organisation	No. of Trainees	Subject	Duration
Village Jhuni	1	Solar technology	8-12-10 to 4-2-11
Village Gawasikote	1	Solar technology	20-8-10 to 31-3-11
Village Gurena	1	Solar technology	5-8-10 to 31-12-10

The solar workshop inventory is in the process of being computerized and one more person is being trained for this purpose.

Table 5

Name of Trainees	Subject	Duration	Trainer
Pappu pant	Computerization of Inventory	Continued from 1-1-11	Kamla Rawat, Deepa Mehta

2.2 Solar Thermal Appliances

A. Solar Water Heaters

This year we have continued to make efforts in the direction of popularizing this technology, especially to the institutions. A 1000 liters capacity Solar Water Heater was installed in the Himalayan Public school Choukori. Approximately 200 children are using the hot water from this water heater for washing and bathing.

B. Solar Driers

Solar driers are an excellent technology for drying high value crops. Affordability is a major impediment in popularizing this technology. They need to be made more affordable by using low cost locally available materials. We have made some efforts in this direction, but not with much success so far. We continue to make efforts in this direction in collaboration with technology institutes. This year we made a new prototype with the help of D-Lab students from Massachusetts Institute of Technology. This model is cheap, but requires double time in drying the material. More work needs to go in this direction to make this kind of a very cheap model functional for drying cash crops.

2.3 Mechanical Workshop (MW)

Mechanical workshop continues the fabrication work this past year. The fabrication work for staff quarter in Tripuradevi has been completed by Mechanical workshop.

The details of the production of the workshop are given below in tables 6 and 7

Table 6

Other Items	Total
Roof Trusses	3
L Patti	20
Window repaired	1
Window	3
Solar Drier	1
Bukhari	1
Power plant stand	8
Solar Water Heater Stand	10
Auto cut tank	1
Tank stand	1
Solar panel stand	50
Insulated storage tank	1
Solar Drier	1
Collector panel	10
Pine needle stove	1
Charkha stand	2
Hammam	1

Apart from this, the mechanical workshop has also made net boundary for Dharamghar centre and fiber roof for meeting room at AVANI centre Tripuradevi .

- 40 feet of net fencing made for AVANI centre at Dharamghar.
- Fiber roof made for AVANI meeting room at Tripuradevi centre.
- one Bukhari installed at AVANI office.
- 2 moth trap manufactured and installed at the AVANI farm.

Table 7

Total Income of the Mechanical workshop
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Fabrication	78,024
Solar Water Heater Sale	3,18,635
Misc. Income	2,800
Calendaring and spray dryer	31,780
Service charge	2,161
Total	4,33,400

2.4 Pine Needle Gasifier

The 9 KW pine needle gasifier installed at AVANI center has continued to generate electricity. However, we have not yet been able to set up a village based 120 KW electricity generation system. Discussion are on with Acumen Fund, a global venture fund that uses entrepreneurial approaches to solve problems of global poverty, for funding the village based gasifier system. Support has also been assured by MNRE provided the Power Purchase Agreement (PPA) is set up. We have initiated the process of setting up the PPA with Uttarakhand Power Corporation Ltd. (UPCL).

The challenge for AVANI is to set up an enterprise for pine needle gasification for electricity generation and cooking charcoal for rural families. We have to explore new organizational structures to facilitate disciplined investment in this social enterprise. We participated in business development program at Center for Science Technology and Society of Santa Clara University in California to explore the business models for this.

2.5 Bio Gas

Following an increase in subsidy by MNRE on biogas for rural families, we have reinitiated the process of dissemination of biogas energy for rural homes. A mason for biogas has been trained by Kumaon Karigar Samiti and two bio gas plants of 2 cubic meter capacity have been set up in the villages of Belkote and Dharmoli. We plan to continue dissemination of this technology in the coming year.

2.6 Collaborations

While we continue to engage with University of Twente of The Netherlands, St. Gallan University Switzerland, D- Lab at MIT and IDDS, various new collaborations with technical institutions such as Center for Science Technology and Society (CSTS) at Santa Clara University have been established. We again participated in IDDS organized at Colorado State University, Colorado, USA in July - August to work on solar technology business model development project. We also participated in business plan development of pine needle gasification system at CSTS, Santa Clara University, California.

3. PRESERVING TRADITIONAL CRAFT THROUGH CONTEMPORARY TEXTILES - HANDMADE NATURALLY DYED PRODUCTS

During more than ten years of work on development of traditional craft as a livelihood option for traditional as well as new artisans, the focus has been on development of enterprise for economic return to the artisans and their ownership of the enterprise. The entire production and sales related work was taken over by Kumaon EarthCraft self reliant cooperative in 2009-10. AVANI still engages with the product development, and marketing related work as well as capacity building of the functionaries of EarthCraft.

As part of the expansion of the business, Avani participated in the Ethical Fashion Show in Paris in September 2010. This show focuses on businesses that are ethical and fair with a high quality product. We were able to present our work and organization in this forum. The response to the products was very encouraging. We also established contact with two shops in Paris, one in Italy and one in Sardinia who will be selling our products.

This event was a good forum to meet a lot of people working with natural dyes from different countries. As we are moving in the field of cultivation and extraction of dyes, we also took this opportunity to meet different technical experts in the field of natural dyeing and pigment extraction in France. CRITT, a company located in Rochefort, has based its business on extraction and marketing of natural pigments for industrial applications. They mostly work with the cosmetic industry. Another group, Okhra in the South of France works only with natural and mineral pigments (like ochre) that can be used for crayons, paints, and to add to mud plasters in natural colors. Both these businesses are well established and are a good example for Avani as we are moving in a similar direction.

The enterprise has gained considerable strength over the years. Though this year sales are marginally less in comparison to last year, more linkage have been established in terms of bigger customer base. AVANI Himalayan Textiles, the distributor for textiles in Switzerland has donated part of profit to AVANI for business development. The total sales during the year are Rupees 35,76,692.

In order to upscale this business, we are in the process of identifying critical bottlenecks and their possible solutions. We were awarded a travel grant by Volkart Foundation to explore some practices and technologies adopted by successful social businesses. After visiting several units and technology centers as well as making an assessment of our own situation, we are proposing to mechanize the natural dyeing unit to have better fastness and replicability of colors. We also need more professional inputs in marketing and production systems for upscaling of both textile as well as natural paint/crayons and are currently exploring funding options to be able to go in this direction. There may be a need to review the organizational structure to facilitate necessary funding for this expansion.

This year, we focused on training of Governing body members and key staff members. Access Livelihood Consultants, a Hyderabad based consulting

agency worked as a resource agency for this training. 4 training programs were conducted with ALC during the year and a total of 21 Participants participated in this training program.

This year, knitting of woolen toys with naturally dyed wool was started with almost 45 knitters. These toys were a great success in the market and more knitters are being trained to produce toys for the urban markets.

During the year, 349 artisans and dye material collectors from 47 villages and hamlets participated in this program. 86 percent of these beneficiaries are women. Out of these 48 villages, we work intensively in 22 and in the rest of the 26 villages we work with individual artisans. This has generated a total income of Rs. 11,62,795 in the villages.

This work has largely benefitted the traditional women artisans of the Bora Kuthalia community. We have also been working on the essential aspect of the transfer of traditional skills of weaving and spinning to other disadvantaged communities thereby ensuring the promotion of the craft.

The newly established Chankana Center is going to get its solar power plant in this year. Solar panels for this center are in transit and have been donated by TUV Rheinland Photovoltaic Testing Laboratory of Arizona, US. We are still in the process of raising funding for battery bank and accessories for this power plant. With this, all the field centers set up by AVANI will be solar electrified.

The list of villages associated with the textile program is given below in table 9.

Table 9

S. No.	Dharamghar Dist. Bageshwar	Digoli Dist Bageshwar	Tripuradevi Dist Pithoragarh	Chankana Dist. Pithoragarh	Sukna Dist. Pithoragarh
1	Simgarhi	Mana	Mehrodi	Chankana	Sukna
2	Saukyura	Digoli	Bhandarigao n	Muni	Ghanghal

3	Dhura	Dhaulani	Rai Agar	Goda	Dhaulani
4	Dharamghar	Matkholi	Bana	Pungarkholi	Ram Mandir
5	Majhera	Nayal	Tripuradevi	Lingurani	Baneni
6	Thuma	Thanga	Mungraon	Gadtir	
7	Darati (Munsiari)	Aulani	Manipur	Bhanelgaon	
8		Simayal	Hasyuri	Puring	
9		Kaligar	Berinag	Patoli	
10		Dhanad	Pabhaya		
11		Paithan	Varsayat		
12		Dhura	Gobargara		
13		Talara			
14		Karariagao n			
15		Nargoli			

We continue to intensify our efforts to train the traditional spinners in silk spinning as our work with cultivation of wild silks with local farmers is also gaining strength. 62 solar powered Charkhas have been installed in different villages. After the installation of these charkhas a series of seven day each intensive training workshops were also organized in 7 different locations. The silk yarn as a source of livelihood will support the local silk farmers and is likely to motivate more people in the area to take up sericulture.

Use of natural dyes for textile coloring is continued and has gained strength over the years.

We continue to produce a range of natural colors for painting, kumkum and Holi colors that are non toxic, safe for the children and other users and are plant based. This year a D-Lab student worked with our dye unit team to make 3 different types of crayons with different materials. More work needs to go in this before we can make a marketable product.

4. WOMEN'S EMPOWERMENT

4.1 Self Help Groups

4.1.1 Micro Credit

Presently we are working with 36 women's self help groups. Three self-help groups, Bana bend, Gadtir and Airari are not functional any more.

All the groups continue to have regular savings and provide loans amongst the members.

The details of the saving and credit activity of the women's groups are given in tables 10 and 11:

Table 10

Name of group	No. of Members	Meetings held	No. of women present	Deposit up to 31 st March 10	Deposit in 10-11	Refunded to members 10-11	Total Deposit	Loan given last year	Loan given in 10-11	Loan Refunded
Lamjhingra	16	2	22	48,011	3,521	0	51,532	2,500	0	5,000
Chantola	10	9	56	19,275	2,377	0	21,652	0	10,000	0
Simayal	16	5	50	20,437	6,804	0	27,241	0	20,000	6,000
Mana	12	9	79	44,474	4,480	0	48,954	10,000	0	10,000
Dhoulani	17	12	167	26,002	6,491	0	32,493	15,000	0	13,000
Mehrodi	14	7	73	23,155	4,297	0	27,452	8,000	0	0
Simgarhi	11	7	59	18,154	4,935	0	23,089	2,000	17,250	16,250
Tripuradevi	9	10	119	33,412	10,800	10,283	33,929	12,000	16,000	7,800
Digoli	17	12	179	26,372	5,317	1,600	30,089	25,000	9,000	5,000
Matkoli	9	7	50	8,433	570	1,900	7,103	0	0	0
Dharamghar	6	3	15	7,187	750	6,437	1,500	0	0	0
Berinag	23	9	54	58,143	6,132	0	64,275	0	25,500	23,000
Chankana	9	8	70	13,610	6,129	580	19,159	0	5,000	5,000
Thanga	11	10	61	32,984	2,245	32,984	2,245	24,000	0	24,000
Sukna	10	8	114	27,992	2,560	0	30,552	0	5,000	0
Silingya	15	7	65	13,900	2,394	0	16,294	0	5,000	1,500
Mungraon	22	10	76	16,734	3,075	0	19,809	13,000	0	3,500
Hasyuri	8	3	24	6,953	447	0	7,400	0	0	0
Rawalgaon	16	9	122	15,808	4,126	0	19,934	0	0	0
Sera Pahar	9	8	54	7,178	1,880	0	9,058	6,000	0	0
Bana	12	6	63	10,730	3,014	0	13,744	0	0	0
Sela	14	8	72	13,076	3,640	0	16,716	0	0	0
Kanurpani	10	8	63	8,732	2,440	0	11,172	0	0	0

Jula	15	4	41	12,795	3,120	0	15,915	0	0	0
Banari	8	6	40	5,418	2,026	490	6,954	0	0	0
Aulani	12	10	105	15,015	3,780	0	18,795	10,000	3,000	0
Pipli	15	8	36	9,770	2,902	0	12,672	0	0	0
Jyoti Balta	11	0	0	2,663	0	0	2,663	0	0	0
Pragatisheel Balta	11	0	0	1,624	0	0	1,624	0	0	0
Chak	14	9	87	8,945	3,535	0	12,480	4,000	0	0
Basti	9	5	45	12,773	5,531	0	18,304	0	8,000	0
Dudila	23	5	55	14,664	6,227	0	20,891	0	0	0
Okharani	12	9	84	6,086	2,705	0	8,791	0	0	0
Jakheri	12	10	74	6,432	2,905	700	8,637	0	0	0
Digoli 2	20	12	139	51,464	21,325	16,970	55,819	22,000	0	32,000
Chetna Tripuradevi	13	0	0	25,390	18,600	9,300	34,690	22,000	33,000	29,350
Total	471	255	2413	673,791	161,080	81,244	7,53,627	175,500	1,56,750	1,81,400

Table 11

	2008-2009	2009-10	2010-11
Total Groups	38	39	36
Total Members	511	528	467
No. of meetings held	358	312	255
Total attendance	3,370	3,168	2413
Total Deposit in the year	Rs 1,62,472	2,01,488	1,61,080
Total collection of groups	Rs 5,11,477	6,83,079	7,53,627
Credit given	Rs 91,700	1,75,500	1,56,750
Recovery of the loan given by the groups	Rs 80,200	64,900	1,81,400
Total credit given by the groups in the last three years	Rs 2,41,200	3,28,200	4,84,950

During the year, a concerted effort was undertaken by the team to create awareness among the members about need for timely loan recovery. This is clearly reflected in the recovery being higher than the amount of loan given out during the year.

4.1.2 Income Generating activities with the Self Help Groups

The use of plant based dye materials in textile coloring has created **opportunity for income generation to the women' s groups by harvesting plants material that were not of much use earlier.**

This has led to protection and plantation of useful species like soap nut, myrobolan, pomegranate, madder etc. on one hand and uprooting of invasive species like Eupatorium on the other hand.

The involvement of rural families in dye material collection has continued to increase for the third consecutive year.

A Spray drying unit to extract pigment that was set up, is not being used for the time being as the extracted pigments need to be stabilized. We have contacted some people to train us on the stabilization process, and it is only after this that the extraction process will be resumed.

After trying various farm based activities for income generation with several **women' s SHGs, there is much enthusiasm for working with cultivation and collection of dye yielding plants and material, especially because the backward integration to the textile enterprise provides a ready market.** This is leading to conservation and planting of ecologically useful species on one hand and uprooting of invasive species on the other hand, both of which in rich in coloring pigments.

In order to exploit this natural advantage of integration with an existing enterprise, we plan to focus on cultivation, collection and processing of dye yielding plants for enhancing this conservation based livelihood option for the members of SHGs.

We have not had great success with raising the nursery of soapnut and myrobolan and need to get in touch with the forest department nurseries to learn to raise successful nurseries of these plants.

The madder seeds collected this year have germinated well and we plan to transplant these saplings for dye yielding crop. The plants of indigofera have survived, and we are waiting for the seeds before we can raise a bigger nursery. Cultivation of dye yielding plants would take longer than we had expected to stabilize, but we are steadily going in that direction.

4.2 Education support

An informal education support program through individual donations of friends and well wishers of AVANI is being run for past few years. At present 38 girls from 21 villages are being supported as part of this program. A primary school run by Jyoti Shikshan Sansthan in Balta village of Almora district is also supported through these donations. We are coordinating with Sri Aurobindo Education Society to train teachers in child friendly learning practices and the teachers of this school have already gone through one round of training.

This program has helped young girls to continue their schooling and some of the girls have taken vocational training after completing their schooling. In most cases marriage age has increased due to this intervention.

We are also in process of setting up a school based on child friendly learning methodology. This will start with preschool children of 3 to 5 years age and will add a class each year as the children graduate to the next level. This school will be started at Tripuradevi centre in April 2011. Sri Aurobindo Education Society is helping us train teachers for this school.

5. RAINWATER HARVESTING AND WASTE WATER RECYCLING

This year one more rain water harvesting tank of 30,000 liters capacity was constructed at Tripuradevi centre. Another 40,000 liter capacity is under construction. The Avani centres at Tripuradevi, Digoli, Sukna and Dharamghar continue to sustain themselves largely on rainwater. The field centers together collect almost 1,00,000 litres of rainwater for their daily needs. At Tripuradevi, center, we managed to live on rainwater for almost 5 months this year. We were able to fulfill our requirements of water for the kitchen, natural dyeing, textile processing, daily needs for 35 people. For the rest of the months, we still need to bring water from 5 kms away by truck.

The slow sand filter continues to provide clean drinking water to the Avani staff as well as visitors to Avani centers from all over the world.

Table 13

RWH Tanks at the AVANI Centre	Qty 2008-09	Qty 2009-10	Qty 2010-11
Total No. of Tanks	4	4	5
Total storage capacity	3,25,000 litres	3,25,000 litres	3,55,000 ltr.
Total stored water during the monsoon	9,35,000 litres	8,40,000 litres	10,53,000 ltr.
Daily consumption of water	5,000 litres	6,000 litres	6,500 ltr.
No. of days rain water was used	187 days	140 days	145 days
Saving in terms of expenses in bringing water by truck from 5 kms	Rs 56,100	Rs 42,000	Rs 43,500

- **Waste Water Recycling**

The wastewater recycling plant at Tripuradevi centre has been functional for over three years now. The plant is recycling about 3000 liters of wastewater per day. This recycled wastewater has allowed us to grow more vegetables this year on our farm. The recycling plant is also a good demonstration for villagers, others organizations and government departments, and has serious potential as a technology for helping income generation through increased vegetable cultivation.

6. ORGANIC FARM AT AVANI CENTER

In order to experiment with and demonstrate the different methods of organic farming, the small farm at Avani has been working with the use of biogas slurry, vermicomposting, Nadep composting and other methods of regenerating the soil. This farm has been using recycled waste water for irrigation to grow vegetables for our community kitchen.

During this year,

- Two new vermicompost pits were made at the Avani centre at Tripuradevi. A total 2,400 kg of compost produced from 7 vermicompost pits. Another 1500 kgs of composte was obtained from Nadep pit for our vegetable farm.
- A drip irrigation system is functional for last year at the Tripuradevi farm.
- 100 cuttings of Napier grass was planted on the terrace edges in this year also.

All these interventions combined with an hour of Shram Dan by members of AVANI team who stay at the center, have helped to increase the productivity of the farm. The income from the farm has increased to Rs 37,036 during the year. In comparison of last year the production of farm is less due to heavy rainfall. This farm also serves as a demonstration and training center for the farmers from the area showcasing these appropriate technologies.

7. SERICULTURE -

CULTIVATION OF WILD SILKS OF ERI, MUGA AND OAK TUSSAR

We continue to integrate new farmers in the cultivation of eri and muga silks. Some new farmers were also integrated in the program from villages where we are already working.

Oak tussar rearing in the village of Basti could not be continued in this year due to the non-cooperative role of the government agency. We are doing our efforts to continue this program through women SHG.

During this year, 63 new farmers in the 15 villages have planted 1.89 acres of muga food plants (*Litchia polyantha* and *Michelia bombacina*) and 24.5 acres of Eri food plant (*Castor*). 819 saplings were provided by the farmers from their nurseries for the plantation in the year 2010-11.

Six farmers have established 6 nursery beds in Sukna, Dana and Dhaoulani. One nursery was established at the AVANI centre. These nursery beds will provide 2,000 saplings for the plantation for the year 2011-12.

A total of 4 rearing houses were completed during the year. A total of 31 eri houses have been constructed until now.

The list of newly integrated villages and farmers is given in tables 14 and 15:

Table 14

Name of the village	No. Of Farmers		Area covered		Total Farmers	Total Area (Acre)
	Eri	Muga	Eri	Muga		
Gobargara	10	0	5	0	10	5
Dhoukatya	5	0	2.5	0	5	2.5
Patoli	1	0	0.5	0	1	0.5
Badet	1	0	0.5	0	1	0.5
Malani	2	2	0.5	0.22	4	1.22
Berinag	1	0	1	0	1	0.5
Dangigaon	1	0	0.5	0	1	0.5
Total	21	2	10.5	0.22	23	10.72

List of new farmers in old villages:

Table 15

Name of the village	No. of Farmers		Area covered		Total Farmers	Total Area(Acre)
	Eri	Muga	Eri	Muga		
Seena	1	1	0.5	0.05	2	0.55
Khaitijolli	1	1	0.5	0.09	2	0.59
Bhuni	2	0	1	0	2	1
Mana	2	0	1	0	2	1
Dhoulani	4	0	2	0	4	2
Chankana	1	2	0.5	0.36	3	0.86
AVANI	0	1	0	0.23	1	0.23
Lingurani	10	5	5	0.73	15	5.73
Majhera	1	0	0.5	0	1	0.5
Simayal	2	0	1	0	2	1
Devlet	3	1	1.5	0.14	4	1.64
Chak	1	1	0.5	0.07	2	0.57
Total	28	12	14	1.67	40	15.67

7.1 Training and Cocoon rearing

During this year, cocoon rearing was conducted with 21 farmers in 9 villages. 800 dfl eri worms were reared by 18 farmers in 6 villages and 200 dfl muga worms were reared by 3 farmers in 3 villages. We are still facing a lot of problems with timely supply of quality eggs during the appropriate season. Owing to poor quality of eggs from the government laboratory the crops have been failing consistently resulting in de-motivation of farmers. Like last year, this year as well, the issue has been taken up with Department of Sericulture and we have been promised timely supply of quality eggs in the coming year.

Total production of cocoons

Eri cocoons 214 kg

Muga 879 Nos.

Total income generated through cocoon production Rs 9,674.

It is hoped that once we can demonstrate full income generating potential of this activity through substantial earnings of a few farmers, we would be able to upscale this activity to an extent that the entire requirement of the textile enterprise can be met through local production. In the mean time, textile enterprise continues to buy most of cocoon and yarn from outside sources while we work with the Department of Sericulture in improving the quality and reliability of eggs for increasing our cocoon production base.

Table 16

	2006-07	2007-08	2008-09	2009-10	2010-11
Total Farmers - _Eri	50	39	96	46	49
Total Farmers - Muga	63	40	60	12	14
No. of nursery beds established		14	8	9	7
Total Area of Plantation	75.6 Acres	59.5 Acres	65.84 Acres	25.84	26.39
Total Income	Rs 3,670	Rs 5,544	Rs 7,395	Rs 18,230	Rs 9,674

8. COMMUNITY HEALTH

8.1 Health Insurance

We continue to work with the office of the Development Commissioner Handicrafts, for the health insurance of the artisans. This year we insured 51 artisan under the scheme of Rajive Gandhi shilpi swasthya Bima Yojana. Now these artisans have the cash less cards for treatment in accredited hospitals.

Existing life insurance cover, Health and personal accident insurance cover for entire AVANI team have also been continued.

8.2 Health Care

In continuation of our small initiative with health care, discussions were continued with visiting doctors and patients were linked to other subsidized and reliable health care facilities at Arohi and Srivastva Clinic in Ranikhet. Dr. S. Srinivaasan continues to provide health care support to needy patients from our area.

8.3 Dai Training

Intensive Dai training were conducted in Tripuradevi centre with the help of Lok Swasthya Mandali Ahemedabad and an exposure visit was also organized. Two Dai training were organized at AVANI centre Tripuradevi and a training /exposure visit was organized to Lok Swasthya Mandali, SEWA Ahemedabad

Table 17

S.N.	Duration	Venue	Doctor/ Trainer	No. of Participants
1	July 28 to August 1, 2010	AVANI centre Tripuradevi	Mangala ben and Alka ben Lok Swasthya Mandali Ahemedabad	21
2	8-1-2011	AVANI field centre, Village Sukna	Medical student from MIT	22
3	11-1-2011	AVANI field centre, village Digoli	Medical student from MIT	15
4	13-1-2011	AVANI centre	Medical student	40

		Tripuradevi	from MIT	
5	January 25 to Feb 3, 2011	AVANI centre Tripuradevi	Mangala ben and Alka ben Lok Swasthya Mandali Ahemedabad	13
6	Feb 28 to March 9, 2011	Shri Gujarat mahila Lok Swasthya Sewa Sahakari Mandali	Lok Swasthya Mandali team	9

8.4 Baseline survey

Lok Swasthya Sewa Sahakari Mandali trained AVANI team in collecting health related data and existing health care services in the villages and survey of 100 families in 3 villages was conducted by AVANI community health workers and compiled. The data needs to be analyzed before we can try to formulate a long term strategy to address the health related issues in these villages.

8.5 Exposure visit

An exposure visit was organized for village Dais and AVANI team to Self **Employed women’ s Association (SEWA) during Feb 28 to march 9, 2011.** 4 participants from AVANI team and 5 Dais from village participated in this exposure visit. During this visit participants visited the working villages of **“Shri Gujarat mahila Lok Swasthya Sewa Sahakari Mandali”** and their collaboration with government schemes. During the exposure the participants learn about -

1. Local capacity building and use of local resources.
2. Tie up with government schemes.
3. Awareness through campaign.

9. WORKSHOPS AND PRESENTATIONS

We were able to present the work of Avani in various for and addressed a large diversity of audience. This has generated a lot of interest and positive support for the organization. During the past year we made presentations at the following places:

Date	Venue	Organisers
May 2010	Dehradun	GTZ
May 2010	Dehradun	NABARD
July 2010	Colorado State University	MIT, Boston
August 2010	Santa Clara University, San Francisco	Center for Science Technology and Society
September 2010	MNRE, New Delhi	MNRE
September 2010	Forest Training Institute	MNRE
September 2010	Paris	Ethical Fashion Show
October 2010	Oloron, France	World Mountain People' s Association
December 2010	Doon University, Dehradun	Uttarakhand State Council of Science and Technology
Jan 2011	GB Pant Institute of Himalayan Environment and Development, Koshi Katarmal, Almora	GB Pant Institute of Himalayan Environment and Development

10. STUDENTS VOLUNTEERS AND VISITORS AT AVANI

	Indian	Foreign	Total
Visitors	51	36	87
Volunteers	0	5	5
Students School/college	30	8	38

Govt. officials	5	-	5
Diploma students	2	-	2
Total	88	49	137

11. COLLABORATION WITH OTHER INSTITUTIONS DURING THIS YEAR

National Institute of Design, Ahmedabad

Aarohi, Nainital

The People Tree, Delhi

The Weaver' s Wheel Network, Goa

AIACA, New Delhi

Dastakar, Delhi

Department of Sericulture, Dehradun and Haldwani

Friends of Tilonia, USA

Le Passeur Decoration, France

University of Twente, Netherlands

IDDS and D-lab at the Massachusetts Institute of Technology, USA

Access Livelihood consultant, Hyderabad

Shri Gujarat Mahila lok Swasthya Sewa Sahakari Mandali, Gujrat

Grassroots, Ranikhet

Center for Science Technology and Society, Santa Clara University, California

HimJoli

12. OUR INSTITUTIONAL DONORS

1. Volkart Foundation Switzerland
2. Ford Foundation

13. INDIVIDUAL DONORS 2010-11

Name	Contribution in Rupees
Mr. Harmal singh Malik, Ms. Nicola Malik	1,000
P.N Gadgil and Company, Sanskruti	35,000
Ms. Sally Holker	500
Ms. Gold stein	2,000
Mr. David Fishlegh	1,770
Ms. Pamela Chatterjee, Kausani	7,000
Ms. Moena Roy, Dehradun	1,000
AVANI Himalayan Textiles, Switzerland	1,63,855
Ms. Basanti Gopal Roy Khati, Pune	2,000
Art Indus, New Delhi	1,23,000
Mr. Mangesh Hoskote	1,501
Ms. Sibylle Pastre, Geneva	47,551
Chrisline Gardiol, France	2,949
Ms. Vidya and Ishan	1,000
Total	3,90,126

14. ACKNOWLEDGEMENT OF CONTRIBUTION AND SUPPORT BY INDIVIDUALS

Mr Amar Seth, New Delhi

Dr S. Srinivasan, Delhi

Ms Catherine Confino, France

Mr Michel Coqblin, France

Ms Alessandra L' Abate, Italy

Mr Bruno and Ms Milena Zaro, Italy

Mr. Aroon and Ms. Sophia, Goa

Mr. Chinmaya Dunster and Ms. Naveena, Goa

Ms. Alessandra Bellos and Mr. Rick Bradley

15. GOVERNING BODY MEMBERS OF AVANI

Name	Address	Designation
Ms. Pamela Chatterjee	Village Bagarijauna, Kausani Distt Bageshwer UA	President
Mr. Rajnish Jain	PO Tripuradevi, via Berinag, Distt Pithoragarh, UA 262531	Secretary
Mr. Yogeshwar Kumar	53- Rajouri Appartments, Opposite Govt. Press Mayapuri, New Delhi-110064	Treasurer
Mr. Keshav Desiraju	A 5, Tehri House Officers' Colony, Rajpur Road, Dehradun - 248009	Member
Dr. Smita Vora	A-3, Rahul Terrace Meera nagar, Koregaon Park, Pune-411001	Member
Dr Sushil Sharma	Village Satoli, PO Peora via Mukteshwer Distt. Nainital, UA- 263138	Member
Mr. Giri Raj Sinh	At. PO Godhar West, Taluka Santrampur, Dist. Panchmahals, Gujrat 289230	Member

16. LIST OF AVANI GENERAL BODY MEMBERS

Name	Address
Mr. Jasod singh	Village - Bhanyun, Distt. Pithoragarh
Mr. Balram singh	Village - Bhanyun, Distt. Pithoragarh
Mr. Fakir Ram	Village - Chantola, Distt. Bageshwar
Mr. Rajendra Joshi	Village - Dewal Bichral Distt. Bageshwar
Ms. Hema Agri	Village - Beladagar, Distt. Pithoragarh
Mr. Jagdish Dhapola	Village - Silingya, Distt. Bageshwar
Ms. Kamla Rathoure	Village - Simgarhi, Distt. Bageshwar
Ms. Radhuli Bora	Village - Digoli, Distt. Bageshwar
Mr. Govind Singh Bora	Village - Golti, Distt. Pithoragarh
Mr. Anand Ballabh Pant	Village - Bana, Distt. Pithoragarh
Ms. Kamla Bhaisoda	Village - Rawalgaon. Distt. Pithoragarh
Ms. Lalita Panchpal	Village - Saukyura, Distt. Bageshwar
Ms. Kamla Bora	Village - Chankana, Distt. Pithoragarh
Mr. kumud Pant	Village - Bana, Distt. Pithoragarh
Mr. Mahesh Ram	Village - Chantola, Distt. Bageshwar
Mr. Verma Ram	Village - Golti, Distt. Pithoragarh
Mr. Deep pant	Village - Bana, Distt. Pithoragarh
Ms. Rewati Bora	Village - Digoli, Distt. Bageshwar
Mr. Heera singh Dharmshaktu	Village - Dharamghar, Distt. Bageshwar
Mr. Pan singh Mahara	Village - Mehrodi, Distt. Bageshwar
Ms. Shanti Bora	Village - Digoli, Distt. Bageshwar
Ms. Rashmi Bharti	AVANI, Tripuradevi, Distt. Pithoragarh

Sumarised Financial Results (2010-2011)

Income & Expenditure

Income

Sales	1,357,286.00
Other Income-Local	1,163,408.06
Grants/Donation -Indian	1,365,585.00
Grants/Donation-FCRA	2,886,902.47
Unutilised Interest on FCRA Deposits	295,393.00
Closing Stock	1,092,780.00
TOTAL	8,161,354.53

Expenditure

Opening Stock	1,362,167.00
Grant & Other Expenses -Local	3,394,022.43
FCRA Expenditure	2,725,144.00

Unutilised Grants/Donation

Local	558,902.00
FCRA	457,151.47
Income for the year	(336,032.37)
TOTAL	8,161,354.53

-

Balance Sheet

Sources of Funds

Capital Fund	9,024,414.64
Utilised Grants for Fixed Assets	14,397,619.00
Unutilised Grants/Donation	1,188,667.47
Current Liabilities	1,652,154.44
TOTAL	26,262,855.55

Application of funds

Fixed Assets	16,195,759.80
Cash/Bank	3,594,677.13
Grant/Donation Receivables	103,345.00
Closing Stock	1,092,780.00
Other Current Assets	5,276,293.62
TOTAL	26,262,855.55