BUSINESS PLAN INCOME GENERATING ACTIVITY - Vermi-Composting by Self Help Group Kafrona





SHG/CIG Name	- ::	Self Help Group Kafrona
VFDS Name	::	Kafrona
Range	::	Bamta
Division	::	Chopal

Prepared under:





Project for Improvement of Himachal Pradesh Forest Ecosystems Management & Livelihoods (JICA Assisted)

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I. Background

Vermi-composting has been gaining popularity, mainly due to shift towards organic farming. There is ecological, economic and human health benefits associated with it. The use of vermin-composting in place of chemical fertilizers results into better soil health, balanced ratio of various minerals and good fertility and best quality crop production. Vermi-composting has direct environmental and economic benefits by contributing to the sustainable agriculture and horticulture production and income of farmers significantly.

Vermicomposting

Vermi-composting, rightly called Gold from garbage is the measure input in organic farming. Vermi-composting is a process in which the earthworms convert in the organic waste into manure rich and high nutritional content. Earthworms are commonly found living in soil, feeding on biomass and excreting it in a digested form. Earthworms feed on the organic waste materials and give out excreta in the form of "vermicasts" that are rich in nitrates and minerals such as phosphorus, magnesium, calcium and potassium. These vermicasts are used as fertilizers and they improve the soil quality. There is great demand for vermin-compost due to the high leval of nutrient content.

Materials Required

- 1. Water
- 2. Cow dung
- 3. Thatched roof
- 4. Soil or Sand
- 5. Earthworms
- 6. Gunny bags
- 7. Organic biomass
- 8. Plastic or cemented tank
- 9. Dry straw and leaves collected from the fields
- 10. Biodegradable wastes collected from fields and kitchen.

2. Description of SHG/CIG

SHG/CIG name	Self Help Group Kafrona
VFDS	Kafrona
Range	Bamta
Division	Chopal
District	Shimla
Total no. of members in SHG	10
Date of formation	
Bank account no.	01-12-2017
Bank details	33899605872
	SBI
SGH/CIG monthly saving	100 /-
Total saving	2809
Total inter-loaning	-
Cash credit limit	_
epayment status	
	Too bod a ser

3. Benificiaries Detail:

Sr. no.	Name	Father/ Husband Name	Age	Education	Category	Income source	Address	Contact No
1.	Sheela Devi (President)	W/O Seeta Ram	34	10 th	S.C	Agriculture	Village Kafrona	6230467446
2.	Kewla Devi (Vice President)	W/O Kamal Chand	58	901	s.c	Agriculture	Village Kafrona	8988247763
3.	Beena Devi (Secretary)	W/O Hemraj	36	8 th	S.C	Agriculture	Village Kafrona	7650037959
4.	Kanta Devi (Treasurer)	W/O Sahi Ram	56	-	S.C	Agriculture	Village Kafrona	9816252758
5.	Sheela Devi	W/O Daulat Ram	43	-	S.C	Agriculture	Village Kafrona	9816000820
6.	Babli Devi	W/O Roshan Lal	56	~	S.C	Agriculture	Village Kafrona	9816778034
7.	Kanta Devi	W/O Mohan Lal	48	*	S.C	Agriculture	Village Kafrona	8894905149
8.	Pingla Devi	W/O Kedar Singh	40	-	S.C	Agriculture	Village Kafrona	9805772334
9.	Satya	W/O Prem Chand	57	-	S.C	Agriculture	Village Kafrona	8894070685
10	Guddi	W/O Parmod	38	8th	S.C	Agriculture	Village Kafrona	7876247976

3. Geographical Details of The Village

3.1	Distance from the District HQ	::	150 km
3.2	Distance from main Road	::	1km
3.3	Name of local market & distance	::	Jhiknipul 20 km
3.4	Name of main market & distance	::	Chopal 50km, Nerwa 25 km
3.5	Name of main cities & distance	::	Shimla 150 km
3.6	Name of main places where product will be sold/ marketed	::	Nerwa, Jhiknipul ,Chopal,

4. Description of Product related to Income Generating Activity

4.1	Nome Cit	1	ampost
***	Name of the Product	*:	Vermi-compost
4.2	Method of product identification	::	The activity was shortlisted and finalized, keeping in view the great demand of keeping in view the area being an apple belt. Vermicompost, the area being decided by
4.3	Consent of SHG/CIG/cluster members	::	Yes, the activity was collectively decided by the group.

5. Description of Production Process

Step 1	To prepare compost, either a plastic or a concrete tank/pit can be used. The size of the tank/pit depends upon the availability of raw materials, however as a standard, the sizing is being kept 10ftX4ftX2ft.
Step-2	Collect the biomass and place it under the sun for about 8-12 days. Now chop it to the required size using the cutter.
Step-3	Prepare a cow dung slurry and sprinkle it on the heap for quick decomposition.
Step-4	Add a layer (2 – 3 inch) of cement concrete at the bottom of the tank/pit.
Step-5	Now prepare fine bedding by adding partially decomposed cow dung, dried leaves and other biodegradable wastes collected from fields and kitchen. Distribute them evenly on the concrete layer.
Step-6	Continue adding both the chopped bio-waste and partially decomposed cow dung layer-wise into the tank/pit up to a depth of 0.5-1.0 ft.
Step-7	After adding all the bio-wastes, release the earthworm species over the mixture and cover the compost mixture with dry straw or gunny bags.
Step-8	Sprinkle water on a regular basis to maintain the moisture content of the compost.
Step-9	snakes, etc. and protect the compost from reciprost the entry of ants, lizards, mouse,
Step-10	moisture and temperature,
Step-11	Collection of earthworms after Verm compost collection. Sieving of the composted material to separate fully composted ready material. The partially material will be again put into Vermi-compost bed.
Step-12	Storage of vermi compost in proper place to maintain moisture and allow the beneficial microorganis to grow.

6. Description of Production Planning

6.1	Production Cycle (in days)	::	90 days (three cycles in a year)
6.2	Manpower required per cycle (No.)	::	1
6.3	Source of raw materials	::	From household and own farms
6.4	Source of other material	**	Open market
6.5	Raw material - quantity required per cycle (Kg) per member	::	1800 Kg per cycle
.6	Expected production per cycle (Kg) per member	**	900Kg per cycle

7. Description of Marketing/ Sale

7.1	Potential market places		
	places	::	HP Forest Deptt.
	Tenhan In the later of the late		Local market
7.2	Distance from the unit		Use on own farm
	the unit	::	To be supplied to different locations
7.3	Demand of the produce		
	market place/s product in	::	HP Forest Department is procuring huge vermi-compost for their nursery. Huge
7.4	Process of ideas		demand in locality for orchard use, area being an apple belt.
/ • ••	Process of identification of	::	PMU will facilitate the tie up of procurement
	market		of vermi-compost produced by SHG with HP Forest Deptt.
7.5	Marketing Strategy of the	-	
	product	**	SHG members will also explore the additional marketing options around their villages for better sale price in future.
7.6	Product branding	-	
		**	At CIG/SHG level product will be marketed by branding of respective CIG/SHG. Later
7.7	D. 1.4460		this IGA may require branding at cluster level
7.7	Product "Slogan"	::	"Let's go organic"

8. SWOT Analysis

* Strength

- **○** Each of the SHG members are having cattle varying from 2 to 4 in each household
- Families of SHG members are cultivating high value crops & vegetables which offers adequate availability of raw materials i.e. farm organic wastes throughout the year.
- Raw material easily available at their farms
- Manufacturing process is simple
- Proper packing and easy to transport
- Other family members will also cooperate with beneficiaries
- Product shelf-life is long

Weakness

- Effect of temperature, humidity, moisture on manufacturing process/product.
- Lack of technical know-how

Opportunity

- Increasing demand of vermi-compost on account of awareness among farmers about organic and natural farming
- application of vermi-compost on their own field will go a long way in improving and enhancing the soil health and production of quality farm produce which will offer better price.
- Best utilization of organic waste including household left outs of kitchens
- Potential for marketing tie up with HP Forest

* Threats/Risks

- Possibility of break of production cycle due to extreme weather
- Competitive market
- Devel of commitment among beneficiaries towards participation in training/ capacity building & skill up-gradation

9. Description of Management among Members

- → Production It will be taken care of by individual members including procurement of raw materials
- → Quality assurance Collectively
- → Cleaning & packaging Collectively
- → Marketing Collectively
- → Monitoring of the unit Collective

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Other charges	July management	Outer handling charges	Packing materials	Labour Cost		Cost of procurement of Slurry/dung/waste	Seed earthworm	Recurring Costs	Total Capital Costs (A.I.	Sub-total (A.2)		Tools, equipment etc.	Machinery and equipment	Sub total (A.I)	Construction of cover shed	Hardware items, construction pit (Size will be of 10ftX4ftX2ft)	Construction of work-sneu	Capital Cost	T MA SAME	particulars	N. S.
	SHIRM	Per	No.	tonne	Per	Tonnes		Per Kg				member	Per		member	member	Per			Units	
		21	791		21	42		10				H (10		IO		10			Nos.	Quantity
		150	00	20	700	7000	000	600					2300			4200	6200			(Rs.)	Cost
		3150		9100	14700		37800	0000	0000	100	127000	23000	23000		104000	42000	02000	00000			Year 1
		3307		9555	15435		39690		0		0	0	0		0			0	- Control of		Year 2
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of the second second		CFOC	21/72	10533	DIO/I	17016	43/3/	רארני	0		0							•			Year 4
		200	3827	11059		17866		45944	0		1	0	0	>		0			0		Year 5

Noto	1/2	14	13	7 1	15	0					9	0
Net returns (D-C)	A Oreal Revealed	Total revenue	Sale of earthworm	Sale of vermicompost	51-5	Income from vermicomposting	lotal cost = Capital + recurring		Total recurring costs		Interest on loan	insurance
				Tonnes						annum	Per	L/S
The same of				21								
				6400						0	5	0
-63350	134400			134400			197750	00000	70750	0		0
83353	151340	3500	2000	147840			67987	10510	67087	0		0
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110935	185886	7000		178886			74951	1564/	74021	0		0
	203774	7000	1	196774		-	78696	18090	- CO.	0	1	0

Activity on own land

All operations to be done by the members themselves

No extra labour cost, since all member will do the work themselves.

Abstract of Cost/ Benefit

1250	110935	98240	83353	00000	The second secon
1000	-		02200	02117	Net profit
203775	185886	169624	151340	134400	TOTAL LEAGUE
7869	Techi	1000			Total navanua
-	74021	71384	67987	197750	Total cost
78696	74951	71384	67987	70750	Recurring cost
0					
0	0	0	0	12/000	Conference and a
JEST I	4 100 1			10000	Canital cost
Vini	Voor 4	Year 3	Year 2	Year I	a new party of a special Co

11. Gist of Economic Analysis

- pit size for each member has been planned at 10X4X2 ft for one pit.
- Cost of production of vermi-compost has been estimated at Rs. 3.6 per Kg
- Sale of vermi-compost (conservative side) is proposed at Rs. 6 per Kg
- Net profit is estimated to be Rs. 6-3.6 = 2.4 per Kg.
- ☐ It is proposed that each member will produce 3.3tonnes of vermi-compost every year resulting in production of 46.2tonnesvermi-compost by all 14 members of SHG in one year.
- Cost of earthworm has been kept at Rs. 600.00 per kg
- During the second years onwards, there will be surplus earthworms for sale (as it will multiply during the process of production of vermi-compost)
- The vermi-compost making is a profitable IGA and therefore has been taken up by the SHG members.

12. Fund requirement:

Sl. No.	Particulars	Total Amount (Rs)	Project support	SHG contribution
1	Total capital cost	127000	95250	31750
2	Total Recurring Cost	70750	0	70750
3	Trainings/ capacity building/skill up-gradation	25000	25000	0
	Total =	222750	120250	102500

Note-

- Capital Cost 75% of capital cost to be covered under the Project
- Recurring Cost To be borne by the SHG/CIG.
- Trainings/capacity building/ skill up-gradation To be borne by the Project

13. Sources of fund:

Project support;	 75 % of capital cost will be utilized for construction of pit (Size will be of 10ftX4ftX2ft) Rs 1 lakh as revolving fund will be parked in the SHG bank account (should be utilized for taking bank loan in case of taking loan from bank) or as a revolving fund. 	
	Trainings/capacity building/ skill up- gradation cost.	

shg contribution

• 25% of capital cost to be borne by ShG, this include cost of shed/construction of shed.

• Recurring cost to be borne by ShG

14. Bank loan repayment

If the loan is availed from bank it will be in the form of cash credit limit and for CCL there is not repayment schedule; however, the monthly saving and repayment receipt from members should be routed through CCL.

- In CCL, the principal loan outstanding of the SHG must be fully paid to the banks once a year. The interest amount should be paid on a monthly basis.
- In term loans, the repayment must be made as per the repayment schedule in the banks.

15. Trainings/Capacity Building/Skill Up-gradation

Trainings/capacity building/ skill up-gradation cost will be borne by project.

Following are some trainings/capacity building/ skill up-gradation proposed/needed:

- Project Orientation Group Formation/ Reorganization
- Group Concept and Management
- **○** Introduction to IGA (General)
- Marketing and Business Plan Development
- **○** Bank Credit Linkages & Enterprise Development
- **○** Exposure Visit of SHG Within the State& Outside State

16. Monitoring Mechanism

- Social Audit Committee of the VFDS will monitor the progress and performance of the IGA and suggest corrective action if need be to ensure operation of the unit as per projection.
- SHG should also review the progress and performance of the IGA of each member and suggest corrective action if need be to ensure operation of the unit as per projection.





Certificate

The Business plan of Self Help Group Vermi Composting SHG Kaforna for the IGA of Vermi-Composting was presented before the general house of VFDS Kafrona for approval. After long discussion and thoughtful deliberations by the different members, the business plan was approved for adoption in the SHG and further implementation by the members of SHG.

Dated:-

Place:-

President SHG

प्रधान किता खपरीना

भागित्र अस्ति। ए प्रमाणित

Tressurer & B.Q.
VFDS "Kee Joone,

Approved

DMU-CUM-Divisional Forest Officer Chopal Forest Division, Chopal

Bamta