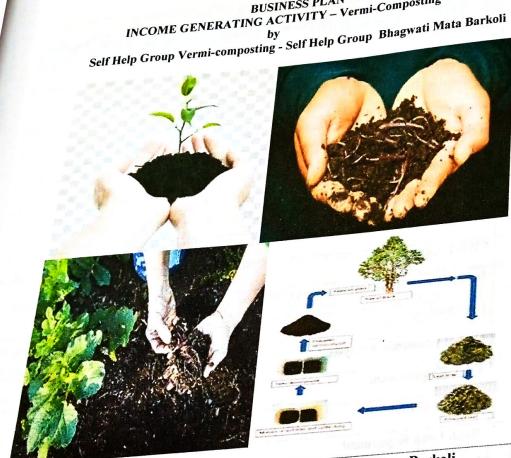
BUSINESS PLAN INCOME GENERATING ACTIVITY – Vermi-Composting



TIGIC Nome		Self Help Group Bhagwati Mata Barkoli
SHG/CIG Name		Bahal Khas
VFDS Name		Sarain
Range	::	
Pivision	 ::	Chopal

Prepared under:



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

Table of Contents

	Table of Contents	Page/s
	Particulars	3
Sl. No.		4
1.	Background	
2,	Description of SHG/CIG	5
	n of Giaries Detail:	5
3.	Geographical details of the Village:	6
4.	Geographical details of the Village: Description of Product related to Income Generation Activity Description of Product related to Income Generation Activity	6
5.	Description of Front Processes	6
6.	Description of Production Processes Planning	
7.	Description of Production Planning	7
8.	Description of Marketing /Sale	7-8
9.	SWOT Analysis	8
10	Description of Management among Members	9-10
11	Cost analysis	11
12.	Gist of Economic Analysis	11
13.	Fund Requirement	1-12
14.	Sources of Fund	12
15.	Bank Loan Repayment	-
16.	Trainings/capacity building/skill up-gradation	12
17.	Monitoring Method	12
18.	Photo SHG Members	13
19.	Business Plan Approval	14

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

2. Description of SHG/CIG	Self Help Group Bhagwati Mata Barkoli
	Self Help Group Diag
SHG/CIG name	Bahal Khas
VFDS	Banai Khas
VI D3	Sarain
Range	
District.	Chopal
Division	Shimla
District	Snima
T-t-l- f	10
Total no. of members in SHG	20.0021
Date of formation	02-09-2021
Bank account no.	1359000100058972
	PNB
Bank details	Cat. the street was affected to the street and
SGH/CIG monthly saving	100 /-
Total saving	21000
Total inter-loaning	- 20172042012
Cash credit limit	-
Repayment status	The first and

2 12 .m	ificiaries	Datail
4. BCH	HILLIAN IC.	Detatt.

STATE OF STREET, STREE	Name	Father/ Husband Name	Age	Education	Category	source	Address	Contact No	
Contract of the Contract of th	Geeta Devi (President)	W/O Ramesh Chand	55	5 th	General	Agriculture	Village Barkoli	88942-43759	
THE REAL PROPERTY AND ADDRESS OF THE PERSON NAMED AND ADDRESS	Durma Devi (Vice President)	W/O Meena Ram	68	2 nd	S.C	Agriculture	Village Barkoli	88942-76836	
CANADA MINISTRALIA PROPERTY.	Sheetal (Secretary)	W/O Anil Kumar	24	10 th	S.C	Agriculture	Village Barkoli	86280-81482	
-	Kamla Devi (Treasurer)	W/O Baldev Singh	58	-	General	Agriculture	Village Barkoli	88940-42605	
+	Atru Devi	W/O Kewal Ram	55	-	General	Agriculture	Village Kandwa	98057-10183	
STATE OF THE PERSON NAMED ASSESSMENT	Lokindra Devi	W/O Shyam Singh	41	10 th	General	Agriculture	Village Parmana		
CONTRACTOR OF STREET	Uma Devi	W/O Prem Singh	44	S th	General	Agriculture	Village Parmana	88946-84266	
NAME AND ADDRESS OF TAXABLE PARTY.	Durma Devi	W/O Padam Singh	59	5 th	General	Agriculture	Village Barkoli	1. 4	
AUTHORNOOM SALES	Vidya Devi	W/O Balak Ram	48	-	S.C	Agriculture		88940-87577	
Designation of the latest	Shyama Devi	W/O Ravinder	28	10 th	S.C	Agriculture	Village Barkol	85805-19961	

3. Geographical Details of The Village

3.1	Distance from the District HQ	::	102 km
3.2	Distance from main Road	::	5 km
3.3	Name of local market & distance	::	Pulbahal 9 km
3.4	Name of main market & distance	::	Sarain 23km, Chopal 50 km
3.5	Name of main cities & distance	::	Shimla 102 km
3.6	Name of main places where product will be sold/ marketed	::	Pulbahal, Sarain ,Chopal, Nerwa

		conerat	ting Active
	and to Income	Jenes	Vermi-compost
escription (of Product related to Income	["	The activity was shortlisted and finali
1.1	Van		keeping in view the great demand of Vermicompost, the area being an apple
1	nod of product identification		Yes, the activity was collectively decide the group.
C0	nsent of SHG/CIG/cluster members	#	
	es Production Process		concrete tank/pit can be used. The s

of Production Process

Descript	To prepare compost, either a plastic or a concrete tank pit can be used. The size of
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.
	standard, the same standard, the sun for about 8-12 days. Now chop it to
Step-2	the required size using sharry and sprinkle it on the hottom of the tank/nit
Step-3	Prepare a cow dung start of cement concrete at the bottom of control of cement concrete at the bottom of control of cement concrete at the bottom of control of cement concrete at the bottom of cement centre at the bottom of centre at the bot
Step-4	
Step-5	Now prepare the bedding and street them tields and kitchen. Distribute them
	evenly on the concrete layer.
Step-6	Continue adding both the chopped adopth of 0.5-1.0 ft.
	layer-wise into the tank/pit up to a depth of one and a depth of one a depth of one and a depth of one a depth of one and a depth of one a depth of one and a depth of one and a depth o
Step-7	After adding all the bio-wastes, recease the and cover the compost mixture with dry straw or gunny bags.
	and cover the compost inixture with a sprinkle water on a regular basis to maintain the moisture content of the compost
Step-8	Sprinkle water on a regular basis to maintain the entry of ants lizards many
Step-9	Cover the tank/pit with a thatch roof to prevent the entry of ants, lizards, mouse, snakes, etc. and protect the compost from rainwater and direct sunshine.
Step-10	Have a frequent check to avoid the compost from overheating. Maintain proper
	moisture and temperature.
Step-11	Collection of earthworms after Verm compost collection. Sieving of the composter
v line to	material to separate fully composted ready material. The partially material will b again put into Vermi-compost bed.
Step-12	Storage of vermi compost in proper place to maintain moisture and allow the
141 -1-7	beneficial microorganis to grow.

6. Description of Production Planning

6.1	Production Cycle (in days)	::	90 days (4)
_	Manpower required per cycle (No.)		90 days (three cycles in a year)
5.3	Source of raw materials	::	1
	Source of other material	::	From household and own farms
	Raw material - quantity required	::	Open market
	quantity required	::	1800 Kg per cycle

	per cycle (Kg) per member					Character grant program in 1977 ft.		
6.6	Expected (Kg) per r	production nember	per	cycle	::	900Kg per cycle		

1. Description of Marketing/Sale

escrip			
7.1	Potential market places	i i	HP Forest Deptt. Local market Use on own farm
7.2	Distance from the unit	1 41	To be supplied to different locations
7.3	Demand of the product in market place/s	## (Fig. 1)	HP Forest Department is procuring huge vermi-compost for their nursery. Huge demand in locality for orchard use, area being an apple belt.
7.4	Process of identification of market	i tu	PMU will facilitate the tie up of procurement 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 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
- Opportunity

 Increasing demand of vermi-compost on account of awareness among farmers about organic and natural farming organic and natural latinus

 Organic and natural latinus

 Application of vermi-compost on their own field will go a long way in improving and

 Application of vermi-compost on their own field will go a long way in improving and
 - Application of vermi-composition of quality farm produce which will offer 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
 - → Quality assurance Collectively
 - → Cleaning & packaging Collectively
 - → Marketing Collectively
 - → Monitoring of the unit Collective

S. No	Particulars	Units	Quantity / Nos.	Cost (Rs.)	Year 1	Year 2	Year 3	Year 4	Year 5
A.	Capital Cost					120,49			
A.1	Construction of work-shed								
1	Hardware items, construction of pit (Size will be of 10ftX4ftX2ft)	Per member	10	6200	62000	0	0	0	0
2	Construction of cover shed	Per member	10	4200	42000	peri			- E/1 2
	Sub-total (A.1)				104000	0	0	0	0
A.2	Machinery and equipment		Table Maria						
2	Tools, equipment etc.	Per member	10	2300	23000	0	0	0	0
1	Sub-total (A.2)				23000	0	0	0	0
	Total Capital Costs (A.1+A.2)				127000	0	0	0	0
	Recurring Costs				1 24 4	12011	1149714	The made	
	Seed earthworm	Per Kg	10	600	6000	0	0	0	0
	Cost of procurement of Slurry/dung/waste	Tonnes	42	900	37800	39690	41674	43757	45944
	Labour Cost	Per tonne	21	700	14700	15435	16206	17016	1786
	Packing materials	No.	182	50	9100	9555	10032	10533	1105
	Other handling charges	Per tonne	21	150	3150	3307	3472	3645	3827
01	ther charges				4	67.0			6

8	Insurance	L/S		0	0	0	0	0	1 0
9	Interest on loan	Per annum	2.3	0 .	0	0	0	0	0
1	Total recurring costs	244	1.33		70750				
	Total cost = Capital + recurring				70750	67987	71384	1384 74951	7869
1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		255	197750	67987	71384	74051	
	Income from vermicomposting			er Core Edward Berger	The state of the s	0/70/	/1304	74951	78696
	Sale of vermicompost	Tonnes	21		(E) (1) (1) (2) (2)				
3	Sale of earthworm	1 2 2 2 2 2	21	6400	134400	147840	162624	178886	196774
4	Total revenue	100	344.	6 (4)	0.000	3500	7000	7000	7000
5	Net returns (D-C)				134400	151340	169624	185886	203774
ote	e-				-63350	83353	98240	110935	125079

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

articulars	Year 1	Year 2			The plant and the second
Capital cost		0	Year 3	Year 4	Year 5
	127000				
Recurring cost	70750	67987	71384		
Accurring cost				74951	70.50.5
Total cost	197750	67987	71001		78696
Total revenue			71384	74951	78696
	134400	151340	169624	195007	
Net profit	-63350	83353	and the second s	185886	203775
		83333	98240	110935	125079

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:

SI. 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)	Procurement of materials for pit/construction of pitwillbe done by respective DMU/FCCU after following all codal
	 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. 	formalities.
	 Trainings/capacity building/ skill up- gradation cost. 	

- tribution	• 25% of capital cost to be borne by SHG, this include cost of borne by SHG, this include cost of borne by SHG, this include cost of borne by SHG.	
SHG contribution	borne by SHG, this shed/construction of shed. 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
- Sank 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



Biolya Devi



Greela Devi



Sheetal



Dusma Devi



Kamla Devi



Vidya Devi



Lokindoa Devi



Uma Devi



Atay pevi



Durma Devi Prepared by: Tara Devi FTU Coordinator(S.R.)

Business plan of Self Help Group Vermi Composting. Bhay wat Mata Barkel for the Vermi Composting was presented before the general house of VFDS. Bahal Khas... for After long discussion and thoughtful deliberations by the different members, the business plan approved for adoption in the SHG and further implementation by the members of the SHG

mrt. 03-02-2023

Bahal Khas

President SHG

Treasure VFDS

द्यानीण वन विकास समिति बाहल खास वार्ड-1,

त्तहसील चौपिति (हि०प्र०)

Forest Range Sarair

Approved

isional Forest Officer Chopal Forest Division, Chopal