



BUSINESS PLAN



INCOME GENERATING

ACTIVITY – VERMI-COMPOST

By

Shiv shakti - Self Help Group



SHG/CIG Name	::	Shiv - Shakti
VFDS Name	::	Shantla
Range	::	Dehra
Division	::	Dehra Divison

Prepared under:

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

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Background

Vermi-compostig has been gaining a strong foothold in the country due to simple production techniques, ecological, economic and human health benefits associated with it. A significant number of vermin composting units have been set up by entrepreneurs, under government support/ with the technical guidance of Non-Governmental Organizations (NGOs), particularly in the southern and central parts of the country.

Vermi-compostig has direct environmental and economic benefits as it contributes to the sustainable agriculture production and income of farmers significantly. There are a number of NGOs, Community Based Organizations (CBOs), Self-Help Groups (SHGs), Trusts etc. which are making concerted efforts to promote vermin composting technology due to its established economic and environmental advantages.

Vermi-compostig

Production of compost through rearing/using earth worms is called the vermin composting technology. Under this technology, earthworms eat biomass and excrete it in a digested form which is known as Vermi-compostig or vermin compost. It is one of the simplest and cost-effective methods for the production of composting for both the small- and large-scale farmers. Vermicompost production unit can be set up in any land which is not under any economic use but shady and free from water stagnation. The site should also be nearer to a water resource

Vermi-compostig, rightly called “gold from garbage” is the major input in organic agriculture production. Owing to simple technology, many farmers are engaged in vermin composting production as it invigorates soil health; soil productivity thereby reduces the cost of cultivation.

There is a gradual increase in demand for vermin compost due to the high level of nutrient contents.

1. Description of SHG/CIG

SHG/CIG Name	::	Shiv - shakti
VFDS	::	Shantla
Range	::	Dehra
Division	::	Dehra Divison
Village	::	Shantla
Block	::	Pragpur
District	::	Kangra

Total No. of Members in SHG	::	8
Date of formation	::	16/09/2022
Bank a/c No.& IFSC	::	50100603164573
Bank Details	::	HDFC DEHRA
SHG/CIG Monthly Saving	::	50rs
Total saving		450rs
Total inter-loaning		1%
Cash Credit Limit		-
Repayment Status		-

2. Beneficiaries Detail:

Sr.no	Name Of Candidate	Ward Name	Contact No	Designation
1	Joginder Singh S/O Ran Singh	Shantla	9805752882	President
2	Neelam kumari W/O Kuldeep	Shantla	9459750765	Secretary
3	Bandana Sharma W/O Ashwani	Shantla	9816549569	Treasurer
4	Sita Devi W/O Malkiyat	Shantla	8288939943	Member
5	Daljeet S/O Jaswant Singh	Shantla	7807030705	Member
6	Prakash chand S/O Bholu ram	Shantla	8679418146	Member
7	Baldev Singh S/O Bholu ram	Shantla	7807136339	Member
8	Raj Kumar S/O Madho ram	Shantla	9805656233	Member

3. Geographical details of the Village

3.1	Distance from the District HQ	::	80Km
3.2	Distance from Main Road	::	5 Km
3.3	Name of local market & distance	::	Shantla 1km
3.4	Name of main market & distance		Rakkar 13Km
3.5	Name of main cities & distance		Nadaun 15, Rakkar 13Km
3.6	Name of main cities where product will be sold/ marketed	::	Nadoun,Rakkar,kangra

4. Description of Product related to Income Generating Activity

4.1	Name of the Product	::	Vermi - compostig
4.2	Method of product identification	::	This activity has been collectively decided by group members.
4.3	Consent of SHG/ CIG / cluster members	::	Yes

5. Description of Production Processes

Step		Description
Step-1	::	Processing involving collection of wastes, shredding, mechanical separation of the metal, glass and ceramics and storage of organic wastes.
Step-2	::	Pre digestion of organic waste for twenty days by heaping the material along with cattle dung slurry. This process partially digests the material and fit for earthworm consumption. Cattle dung and biogas slurry may be used after drying. Wet dung should not be used for vermi-compost production.
Step-3	::	Preparation of earthworm bed. A concrete base is required to put the waste for vermi-compost preparation. Loose soil will allow the worms to go into soil and also while watering; all the dissolvable nutrients go into the soil along with water.
Step-4	::	Collection of earthworm after vermi-compost collection. Sieving the composted material to separate fully composted material. The partially composted material will be again put into vermi-compost bed.
Step-5	::	Storing the vermi-compost in proper place to maintain moisture and allow the beneficial microorganisms 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.)	::	8
6.3	Source of raw materials	::	From household and own farms
6.4	Source of other resources	::	Open market
6.5	Raw material - quantity required per cycle (Kg) per member	::	1400 Kg per cycle
6.6	Expected production per cycle (Kg) per member	::	700 Kg per cycle

7. Description of Marketing/ Sale

7.1	Potential market places	::	HP Forest Deptt.
7.2	Distance from the unit	::	Local market Use on own farm
7.3	Demand of the product in market place/s	::	HO Forest deptt is procuring huge vermi-compost for their nursery
7.4	Process of identification of market	::	PMU will facilitate the tie up of procurement of vermi-compost produced by SHG by 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"		"Nature Friendly"

8. SWOT Analysis

❖ Strength

- ➔ Activity is being already done by some SHG members
- ➔ Each of the SHG members are having cattle varying from 2 to 8 in each household
- ➔ Families of SHG members are cultivating high value crops & vegetables which offer 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 self-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
 - Level 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** – Collectively

10. Description of Economics

(Amount in actual Rs.)

S. No	Particulars	Units	Quantity / Nos.	Cost (Rs.)	Year 1	Year 2	Year 3	Year 4	Year 5
A.	Capital Cost								
A.1	Construction of Pit and shed								
1	Construction as well as Labour cost including shed (Size will be of 10ftX4ftX2ft)	Per member	8	7000	56000	0	0	0	0
2	Erection of cover shed with iron angel	Per member	8	8000	64000				
	Sub-total (A.1)				120000	0	0	0	0

A.2	Machinery and equipment								
3	Tools, equipment, weighing scale etc.	Per member	8	2000	16000	0	0	0	0
	Sub-total (A.2)				16000	0	0	0	0
	Total Capital Costs (A.1+A.2)				136000	0	0	0	0
B	Recurring Costs								
4	Seed earthworm	Per Kg	8	550	4400	0	0	0	0
5	Cost of procurement of Slurry/dung/waste	Ton	48	1000	48000	50400	52920	55566	58344
6	Labour Cost	Per ton	24	800	19200	20160	21168	22226	23337
7	Packing materials	No.	8000	3	24000	25200	26460	27783	29172
8	Other handling charges	Per ton	24	165	3960	4158	4365	4583	4812
C	Other charges								
9	Insurance	L/S			0	0	0	0	0
10	Interest on loan	Per annum		2 per cent	2000	2000	2000	2000	2000
	Total recurring costs				101560	101918	106913	112158	117665
	Total cost - Capital and recurring				237560	101918	106913	112158	117665
D	Income from vermi composting								
11	Sale of Vermicompost	Tones	24	8000	192000	201600	211680	222264	233377
12	Sale of earthworm					20000	40000	40000	40000
13	Total revenue				192000	221600	251680	262264	273377
14	Net returns (C-D)				90440	119682	144767	150106	155712

Note – As labour work will be done by SHG members themselves and Slurry/dung/waste already available at their place and these materials will be not procured by them, therefore, recurring cost (Labour Cost, Cost of procurement of Slurry/dung/waste) can be deducted from total recurring cost.

Economic Analysis

Particulars	Year 1	Year 2	Year 3	Year 4	Year 5	
Capital cost	136000	0	0	0	0	
Recurring cost	101560	101918	106913	112158	117665	
Total cost	237560	101918	106913	112158	117665	676214
Total benefits	192000	221600	251680	262264	273377	1200921
Net benefits	-45560	119682	144767	150106	155712	615827
Net present worth of cost @15 per cent	676214					

Net present worth of benefits @15 per cent	1200921					
Benefit Cost Ratio	1.77					

Distribution of net profit – As per share in production.

11. Inferences of Economic Analysis

- Pit size for each member has been planned at 10X4X2 ft for one pit.
- Cost of production of vermi-compost comes to Rs. 4.2 per Kg
- Sale of vermi-compost (conservative side) is Rs. 8 per Kg
- Net profit will be Rs. 3.8 per Kg
- It is proposed that each member will produce 5.4tonnes of vermi-compost every year resulting in production of 80 tones vermi-compost by all 8 members of SHG in one year.
- Cost of earthworm has been kept at Rs. 500.00 per kg
- During th second years onwards, there will be surplus earthwork for sale (as it will multiply during the process of production of vermi-compost)
- The vermi-compost making is a profitable IGA and can be taken up by the SHG members.

12. Fund requirement:

Sl. No.	Particulars	Total Amount (Rs)	Project support	SHG contribution
1	Total capital cost	136000	102000	34000
2	Total Recurring Cost	101560	0	101560
3	Trainings/ capacity building/skill up-gradation	50000	50000	0
	Total =	287560	152000	135560

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;	<ul style="list-style-type: none"> • 75% of capital cost will be utilized for construction of pit (Size will be of (10ftX4ftX2ft) • Up to Rs 1 lakh will be parked in the SHG bank account. • Trainings/capacity building/ skill up-gradation cost. 	Procurement of materials for pit/construction of pit will be done by respective DMU/FCCU after following all codal formalities.
SHG contribution	<ul style="list-style-type: none"> • 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 SHGs/ CIGs – 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.

➤ Individual Photos Of Each Member



Group Photo; -



Resolution - cum - Group Consensus Form

It is decided in the General House meeting of the group Shiv Shakti held on
19-2-22 at Shantla that our group will undertake the Vermi Compost as
Livelihood Income Generation Activity under the Project for Improvement of Himachal Pradesh Forest
Ecosystems Management & Livelihoods (JICA Assisted) .

Joginder Singh
Signature of Group Pradhan
Forest Dev. Society
Shantla, S.N.S. Shiv Shakti

नीलम कुमारी
Signature of Group Secretary
Shiv Shakti

Business Plan Approval by VFDS & DMU

Shakti Group will undertake the Verma Compost as livelihood income Generation Activity the project for implementation of Himachal Pradesh forest ecosystem Management livelihood (JICA assisted). In this regard business plan of amount Rs. 28,75,60/- has been submitted by group on..... 15-12-2022 and the business plan has been approved by the VFDS..... Shanta.

Business plan is submitted through FTU for further action please.

Thank you

Joginder singh

Signature of Group President

श्रीलक्ष्मी शर्मा

Signature of Member Secretary
Shakti

P. S. Setia

Signature of President VFDS

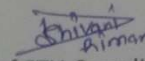
Forest Dev. Society
Shiv Shakti

Approved

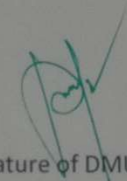
DMU – CUM-Dehra

Submitted to DMU through FTU


Name & Signature of FTU Officer
Range Forest Office
DEHRA, Kangra Dist.

Shivani
Name & Signature of FTU Coordinator


Approved


Name & Signature of DMU Officer

Prepared By –;

Mr Madan Lal Sharma Retd HPFS (Co-ordinator)

Ms. Deeksha Devi (SMS)

Ms. Shivani (FTU-Co-ordinator)

Prepared By –;

Mr Madan Lal Sharma Retd HPFS (Co-ordinator)

Ms. Deeksha Devi (SMS)

Ms. Shivani (FTU-Co-ordinator)