

**BUSINESS PLAN**  
**INCOME GENERATING ACTIVITY – Vermi-Composting**  
by  
Self-help Group Jai Durga Mata Group chainjan

*before knitting*



SHG/CIG Name	::	Self-help Group Jai Durga Mata Group chainjan
VFDS Name	::	chainjan
Range	::	Tharoch
Division	::	Chopal

Prepared under:



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

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## 1. 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. Vermicomposting 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 level 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	Jai Durga Mata Group chainjan
VFDS	Chainjan
Range	Tharoch
Division	Chopal
District	Shimla
Total no. of members in SHG	08
Date of formation	21/07/2022
Bank account no.	11860110094730
Bank details	UCO Bank Nerwa
SGH/CIG monthly saving	100 /-
Total saving	3200
Total inter-loaning	-
Cash credit limit	-

## 3. Beneficiaries Detail:-

Sr. no.	Name	Father/ Husband Name	Age	Category	Income source	Address	Contact No
1.	Saroj (President)	W/o Rahul	26	General	Agriculture	Village-- Chainjan	98165-15155
2.	Sumitra (Vice President)	W/o Kamlesh	34	General	Agriculture	Village-- Chainjan	78076-60184
3.	Sarojani (Secretary)	W/o Shish pal	26	General	Agriculture	Village-- Chainjan	85447-20604
4.	Virendra (Treasurer)	W/o Bhagmal	37	General	Agriculture	Village-- Chainjan	88948-14436
5.	Nisha	W/o Santosh	27	General	Agriculture	Village-- Chainjan	98052-66266
6.	Krishna	W/o Narveer	30	General	Agriculture	Village-- Chainjan	78075-16120
7	Pooja	W/o Rajnesh	22	General	Agricultur	Village-- Chainjan	78766-72143
8	Satya Devi	W/o Daleep Singh	38	General	Agricultur	Village-- Chainjan	58054-62638

#### 4. Geographical Details of The Village

3.1	Distance from the District HQ	::	146 Km
3.2	Distance from main Road	::	1 km
3.3	Name of local market & distance	::	Nerwa,20 km.
3.4	Name of main market & distance	::	Nerwa 20 km Chopal 46 Km,
3.5	Name of main cities & distance	::	Shimla 146km
3.6	Name of main places where product will be sold/ marketed	::	Nerwa Chopal, Sarain

#### 5. Description of Product related to Income Generating Activity

4.1	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 Vermicompost , the area being an apple belt.
4.3	Consent of SHG/CIG/cluster members	::	Yes, the activity was collectively decided by the group.

#### 6. 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	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 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 microorganism to grow.

### 7. 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
6.6	Expected production per cycle (Kg) per member	::	900Kg per cycle

### 8. Description of Marketing/ Sale

7.1	Potential market places	::	HP Forest Deptt. Local market Use on own farm
7.2	Distance from the unit	::	To be supplied to different locations
7.3	Demand of the product in market place/s	::	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	::	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"

## 9. 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
- Level of commitment among beneficiaries towards participation in training/ capacity building & skill up-gradation

## 10. 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

11. Cost analysis

(Amount in actual Rs.)

S. No	Particulars	Units	Quantity / Nos.	Cost (Rs.)	Year 1	Year 2	Year 3	Year 4	Year 5
<b>A.</b>	<b>Capital Cost</b>								
<b>A.1</b>	<b>Construction of work-shed</b>								
1	Hardware items, construction of pit (Size will be of 10ftX4ftX2ft)	Per member	08	6500	52000	0	0	0	0
2	Construction of cover shed	Per member	08	4500	36000				
	<b>Sub-total (A.1)</b>				<b>88000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>A.2</b>	<b>Machinery and equipment</b>								
2	Tools, equipment etc.	Per member	08	2500	20000	0	0	0	0
	<b>Sub-total (A.2)</b>				<b>20000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
	<b>Total Capital Costs (A.1+A.2)</b>				<b>108000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>B</b>	<b>Recurring Costs</b>								
3	Seed earthworm	Per Kg	08	600	4800	0	0	0	0
4	Cost of procurement of Slurry/dung/waste	Tonnes	42	900	37800	39690	41674	43757	45944
5*	Labour Cost	Per tonne	21	700	14700	15435	16206	17016	17866
6	Packing materials	No.	182	50	9100	9555	10032	10533	11059
7	Other handling charges	Per tonne	21	150	3150	3307	3472	3645	3827
<b>C</b>	<b>Other charges</b>								



8	Insurance	L/S		0	0	0	0	0	0
9	Interest on loan	Per annum		0	0	0	0	0	0
	<b>Total recurring costs</b>				<b>69550</b>	<b>67987</b>	<b>71384</b>	<b>74951</b>	<b>78696</b>
	<b>Total cost = Capital + recurring</b>				<b>171530</b>	<b>67987</b>	<b>71384</b>	<b>74951</b>	<b>78696</b>
<b>D</b>	<b>Income from vermicomposting</b>								
12	Sale of vermicompost	Tonnes	21	<b>6400</b>	<b>134400</b>	<b>147840</b>	<b>162624</b>	<b>178886</b>	<b>196775</b>
13	Sale of earthworm					<b>3500</b>	<b>7000</b>	<b>7000</b>	<b>7000</b>
14	<b>Total revenue</b>				<b>134400</b>	<b>151340</b>	<b>169624</b>	<b>185886</b>	<b>203775</b>
15	Net returns (D-C)				-37130	83353	98240	110935	125078

Note –

*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

Particulars	Year 1	Year 2	Year 3	Year 4	Year 5
Capital cost	108000	0	0	0	0
Recurring cost	69550	67987	71384	74951	78696
Total cost	171530	67987	71384	74951	78696
Total revenue	134400	151340	169624	185886	203775
<b>Net profit</b>	-37130	83353	98249	110935	125078

## 12. 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.

## 13. Fund requirement:

Sl. No.	Particulars	Total Amount (Rs)	Project support	SHG contribution
1	Total capital cost	1,08,000	81,000	27,000
2	Total Recurring Cost	69,550	0	69,550
3	Trainings/ capacity building/skill up-gradation	25,000	25,000	0
	<b>Total =</b>	<b>2,02,550,</b>	<b>1,06,000</b>	<b>96,550</b>

### 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

## 14. Sources of fund:

Project support;	<ul style="list-style-type: none"> <li>• 75% of capital cost will be utilized for construction of pit (Size will be of 10ftX4ftX2ft)</li> <li>• 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.</li> <li>• Trainings/capacity building/skill up-gradation cost.</li> </ul>	Procurement of materials for pit/construction of pit will be done by respective DMU/FCCU after following all codal formalities.
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SHG contribution	<p>25% of capital cost to be borne by SHG, this include cost of shed/construction of shed.</p> <ul style="list-style-type: none"> <li>• Recurring cost to be borne by SHG</li> </ul>	
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### 15. 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.

### 16. 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

### 17. 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.

18. Group members Photos -



अजीत कमाठी  
प्रधान



असोनी कपूरी  
अभिषेक



अभिजा  
एव प्रभारी



निखिता



नीशा



विजया



अश्विनी



अनुराधा

Prepared by: Narender Kumar FTU Co-Ordinator

The Business plan of Self Help Group Vermicompost of Vermicompost was presented before the general house of VFDS. 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 the SHG.

Sr. Shri Durya Mata Chainjan  
Chainjan

Dated:- 16/08/23

Place:- Chainjan

President SHG

Treasure VFDS

480

Up. Comals B.O. Neel

**Treasurer**  
**Block Forest Officer**  
Neel **Block**  
Tharoch **Range**

President VFDS

प्रधान Neel  
ग्रामीण वन विकास समिति  
घाई चंईजन, तै० नेरवा,  
जिला शिमला, हि० प्र०

Neel  
FTU, Forest Officer  
Tharoch Forest Range  
Tharoch


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


ग्राम वन विकास समिति चंडीजन

आज दिनांक 02-08-2023 को ग्राम वन विकास समिति की आम सभा आयोजित की गई। जिसमें परियोजना के अन्तर्गत चल रहे कार्य की समीक्षा की गई। इस ग्राम विकास वन समिति के अन्तर्गत स्वयं सहायता समूह जय दुर्गा माता चंडीजन का गठन किया गया है इस समूह ने बुनाई मशीन की आय सृजन गतिविधि का चयन किया था। और इसकी व्यवसाय योजना भी तैयार की गई थी व सक्षम अधिकारी से अनुमोदित भी है। आज की बैठक में स्वयं सहायता समूह के सदस्यों ने इच्छा जाहिर की है कि उन्हें मशीन बुनाई की जगह केंचुआ खाद बनाने की अनुमति प्रदान की जाए क्योंकि समूह महसूस करता है कि उन्हें मशीन बुनाई की गतिविधि अतः रूप से आय सृजन के लिए भी ज्यादा लाभकारी प्रतीत नहीं हो रही है।

अतः अब केंचुआ खाद बनाने की व्यवसाय

योजना तैयार की गई है। जिसमें समूह के सभी सदस्यों की सहमति है। ग्राम वन विकास समिति व स्वयं सहायता समूह वन मण्डल अधिकारी चौपाल से इस नई व्यवसायी योजना के अनुमोदन हेतु सिफारिश करते हैं।

प्रधान   
ग्रामीण वन विकास समिति  
चंडीजन, तै० नेरवा,  
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श्री. Saroj  
संयोजक - चौपाल

  
Range Forest Officer  
Tharoch Forest Range  
Tharoch