

BUSINESS PLAN
INCOME GENERATING ACTIVITY-VERMICOMPOST
by
Jai Mata Di -Self Help Group



SHG/CIG Name	::	Jai Mata Di
VFDS Name	::	Chol Kuferbag
Range	::	Kotkhai
Division	::	Theog

Prepared under-



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

Table of Contents

Sl. No.	Particulars	Page/s
1	Description of SHG/CIG	4
2	Beneficiaries Detail	5
3	Geographical details of the Village	5
4	Description of product related to Income Generating Activity	6
5	Production Processes	6
6	Production Planning	7
7	Sale & Marketing	7
8	SWOT Analysis	8
9	Description of Management among members	8
10	Description of Economics	9
11	Analysis of Income and Expenditure	12
12	Fund Requirement	12
13	Sources of Fund	13
14	Bank Loan Repayment	13
15	Training/capacity building/skill upgradation	13
16	Monitoring	14

Background

Vermicomposting 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 vermicomposting 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.

Vermicomposting 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 vermicomposting technology due to its established economic and environmental advantages.

Vermicomposting

Production of compost through rearing/using earth worms is called the vermicomposting technology. Under this technology, earthworms eat biomass and excrete it in a digested form which is known as vermicomposting or vermicompost. 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

Vermicomposting, rightly called “gold from garbage” is the major input in organic agriculture production. Owing to simple technology, many farmers are engaged in vermicomposting production as it invigorates soil health, soil productivity reduces the cost of cultivation.

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

1. Description of SHG/CIG

SHG/CIG Name	::	Jai Mata Di
VFDS	::	Chol Kuferbag
Range	::	Kotkhai
Division	::	Theog
Village	::	Kuferbag
Block	::	Kalala
District	::	Shimla
Total No. of Members in SHG	::	10
Date of formation	::	8/08/2023
Bank a/c No.	::	-
Bank Details	::	-
SHG/CIG Monthly Saving	::	100/-
Total saving	::	1000/-
Total inter-loaning		-
Cash Credit Limit		-
Repayment Status		-

2. Beneficiaries Detail:

Sr. No.	Name	Father/Husb and Name	Age	Education	Category	Income Source	Address
1	Pardeep Thakur	Lt. Sh Jeet Singh	52	10 th	General	Agriculture	Vill- Kuferbaag
2	Rajender Chauhan	Lt.Sh Mangat Ram	58	10 th	General	Agriculture	Vill- Kuferbaag
3	Vikas Thakur	Lt. Sh Sohan Lal	47	Graduate	General	Agriculture	Vill- Kuferbaag
4	Aman Thakur	Lt.Sh Mala Ram	31	12 th	General	Agriculture	Vill- Kuferbaag
5	Naresh Thakur	Lt.Sh Mohi Ram	46	12 th	General	Agriculture	Vill- Kuferbaag
6	Ujjwal Mehta	SH. Virender Mehta	38	MCA	General	Agriculture	Vill- Kuferbaag
7	Partap Mehta	Lt.Sh Chamanlal	59	Graduate	General	Agriculture	Vill- Kuferbaag
8	Anshul Thakur	Sh. Jagdish Thakur	30	12 th	General	Agriculture	Vill- Kuferbaag
9	Vikash	Sh. Ramlal Mehta	46	Graduate	General	Agriculture	Vill- Kuferbaag
10	Surender Chauhan	Lt.Sh Govind Chauhan	65	10 th	General	Agriculture	Vill- Kuferbaag

3. Geographical details of the Village

3.1	Distance from the District HQ	::	95Km
3.2	Distance from Main Road	::	15Km
3.3	Name of local market & distance	::	Khaneti (15km)
3.4	Name of main market & distance		Kotkhai (35Km)
3.5	Name of main cities & distance		Theog (62Km)
3.6	Name of main cities where product will be sold/ marketed	::	Gumma, Kotkhai, Theog, Shimla

4. Description of Product related to Income Generating Activity

4.1	Name of the Product	::	Vermicomposting
4.2	Method of product identification	::	This activity is being already done by some SHG members and 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.)	::	1
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	::	6tonnes per cycle
6.6	Expected production per cycle (Kg) per member	::	3tonnes (@50%) 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"		"Reduce, Reuse and Recycle"

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 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 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

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 (Pit Size internal will be of 10ftX4ftX2ft)	Per member	10	6000	60000	0	0	0	0
2	Errection of cover shed	Per member	10	4000	40000				
	Sub-total (A.1)				100000	0	0	0	0
A.2	Machinery and equipment								
3	Tools, equipment, weighing scale etc.	Per member	10	2000	20000	0	0	0	0
	Sub-total (A.2)				20000	0	0	0	0
	Total Capital Costs (A.1+A.2)				120000	0	0	0	0
B	Recurring Costs								
4	Lease of land for setting up unit	Per annum	10	0	0	0	0	0	0
5	Seed earthworm	Per Kg	10	500	5000	0	0	0	0
6	Cost of procurement of Slurry/dung/waste	Tonnes	0	0	0	0	0	0	
	Labour Cost	Per tonne	40	700	28000	29400	30870	32414	34034

7	Packing materials	No.	200	50	10000	10500	11025	11576	12155
8	Other handling charges	Per tonne	40	150	6000	6300	6615	6946	7293
C	Other charges								
9	Insurance	L/S			0	0	0	0	0
10	Interest on loan	Per annum		2 per cent	3000	3000	3000	3000	3000
	Total recurring costs				53000	49200	51510	53936	56482
	Total cost =(capital cost+recurring cost)				197000	49200	51510	53936	56482
D	Income from vermicomposting								
11	Sale of vermicompost	Tonnes	40	6000	240000	252000	264600	277830	291722
12	Sale of earthworm					7500	15000	15000	15000
13	Total revenue				240000	259500	279600	292830	306722
14	Net returns (total revenue-total (D-C)(240000-197000)				43000	210300	228090	238894	250240

Economic Analysis

Particulars	Year 1	Year 2	Year 3	Year 4	Year 5
Capital cost	120000	0	0	0	0
Recurring cost	53000	49200	51510	53936	56482
Total cost	173000	49200	51510	53936	56482
Total benefits	240000	259500	279600	292830	306722
Net benefits	43000	210300	228090	238894	250240

Distribution of net profite – 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. 3.2 per Kg
- ➔ Sale of vermi-compost (conservative side) is Rs. 6 per Kg
- ➔ Net profit will be Rs. 2.8 per Kg
- ➔ It is proposed that each member will produce 2.7 tonnes of vermi-compost every year resulting in production of 40 tonnes vermi-compost by all 15 members of SHG in one year.
- ➔ Cost of earthworm has been kept at Rs. 500.00 per kg
- ➔ During the second years onwards, there will be surplus earthworm 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	120000	60000	60000
2	Total Recurring Cost	53,000	0	53,000
3	Trainings/ capacity building/skill up-gradation	50000	50000	0
	Total =	223000	110000	113000

Note-

- **Capital Cost** - 50% 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"> • 50% of capital cost will be utilized for construction of pit (Size will be of 10ftX4ftX2ft) • Upto 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"> • 50% 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.



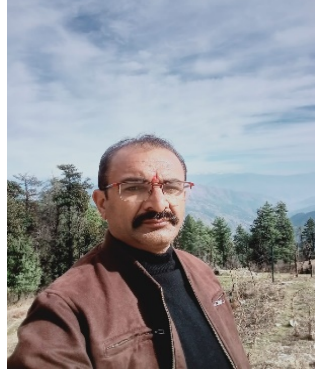

Following are some trainings/capacity building/ skill up-gradation proposed/needed:

- ➔ 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

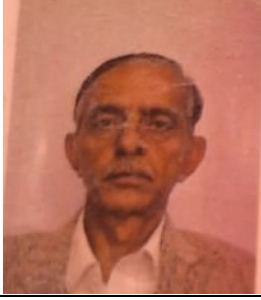
16. Monitoring Mechanism

- ➔ 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.

Group members Photos –

Sr.No.	SHG Members Photos	Name
1		Pardeep Thakur
2		Rajinder Chauhan
3		Vikas Thakur
4		Aman Thakur

5	 A portrait of a man with dark hair and a beard, wearing a dark blue shirt, against a light background.	Naresh Thakur
6	 A portrait of a man with a beard, wearing a light-colored blazer over a maroon patterned shirt, taken from a mobile phone screen. The screen shows the name 'Ujjwal Bhai' and a back arrow.	Ujjwal Mehta
7	 A portrait of a man with a mustache, wearing a grey vest over a white shirt, standing outdoors in front of green foliage.	Partap Mehta
8	 A portrait of a man wearing sunglasses and a dark jacket, sitting at a table with a blue and white striped backdrop.	Anshul Thakur
9	 A portrait of a man wearing a cap and a light-colored jacket, standing outdoors with his arms crossed in front of greenery.	Vikash

10			Surender Chauhan
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Prepared by: SHG members in consultation with DMU Theog, FTU Kotkhai Forest Range and JICA staff.

Annexure

We the member of group hereby consented to actively participate in the IG Activity opted by the group Jai Mata Di..... as per the guideline of JICA Project For Improvement of HP Forest Ecosystems management and Livelihood and coordination with the VFDS.

The details of the members is as under:

S.No.	Name (Phone number)	Father/Husband Name	Age	Education	Category	Income Source	Address	Sign
1	Randeep Thakur	Sh. Sh. Jai Singh Thakur	52	10th	General	Agriculture Vill. Kufeybag		<i>[Signature]</i>
2	Rajinder Chaulan	Sh. Mangal Ram	58	10th	General	Agriculture Vill. Kufeybag		<i>[Signature]</i>
3	Vikas Thakur	Sh. Sh. Lal Thakur	47	Graduate	General	Agriculture Vill. Kufeybag		<i>[Signature]</i>
4	Arnon Thakur	Sh. Sh. Mohi Ram Thakur	31	12th	General	Agriculture Vill. Kufeybag		<i>[Signature]</i>
5	Navesh Thakur	Sh. Sh. Mohi Ram Thakur	46	12th	General	Agriculture Vill. Kufeybag		<i>[Signature]</i>
6	Hijra Mehta	Sh. U. Sander Mehta	40	MCA	General	Agriculture Vill. Kufeybag		<i>[Signature]</i>
7	Pavita Mehta	Sh. Chomrakal	59	Graduate	General	Agriculture Vill. Kufeybag		<i>[Signature]</i>
8	Arvind Thakur	Sh. Jagdish Thakur	30	12th	General	Agriculture Vill. Kufeybag		<i>[Signature]</i>
9	Vikash	Sh. Ram Lal Mehta	46	Graduate	General	Agriculture Vill. Kufeybag		<i>[Signature]</i>
10	Harinder Chaulan	Sh. Sh. Gaurind Chaulan	65	10th	General	Agriculture Vill. Kufeybag		<i>[Signature]</i>
11								
12								

Business Plan Approval by VFDS

Jai Mata Di Group will undertake the Vermicomposting.....

As Livelihood Income Generation Activity under the Project for Improvement of Himachal Pradesh Forest Ecosystems Management & Livelihoods (JICA Assisted) In this regard Business Plan of amount Rs. 233000 has been submitted by this group on Dated 8-08-2023 and the Business Plan has been approved by VFDS ..Chhal. Kufesbag

Business Plan with SHG resolution is being submitted to DMU through FTU for further action, please.

Thank You

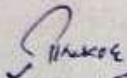
Prakash सचिव
प्रधान
जय माता स्वयं सहायता समूह
धौल-कुफरबाग, तह. कोटखाई, जिला शिमला (हि.प्र.)
Signature of Group President


Ranj सचिव
प्रधान
जय माता स्वयं सहायता समूह
धौल-कुफरबाग, तह. कोटखाई, जिला शिमला (हि.प्र.)
Signature of Group Secretary

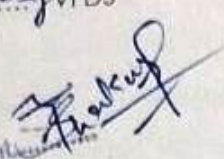
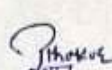


Resolution-cum -Group-Consensus Form

It is decided in the General House Meeting of the group ... Jai Mata Di...

Held on 8-08-2023 at ... Kufherbagthat our group will undertake the Vanwicomposting as Livelihood Income Generation Activity under the Project for Improvement of Himachal Pradesh Forest Ecosystems Management & Livelihoods (JICA Assisted)


सचिव
सहयता समूह
Signature of Group President
जय प.प.
धोल-कूफर
तह. कोटखाई, जिला शिमला (हि.प्र.)



सचिव
प्रधान
जय प.प.
Signature of Group Secretary
धोल-कूफरबाग, ग्रा0 प.पराली-बदरुनी
तह. कोटखाई, जिला शिमला (हि.प्र.)

<p>1. Chol-Kufabag VFDS</p> <p>President </p> <p>President VFDS</p>	<p>2. Jai Mata Di SHG</p> <p>President </p> <p>प्रधान जय माता स्वयं सहायता समूह घोल-कुफरबाग, ग्राम ५ परगली-बदरगली तह. कोटखाई, जिला शिमला (हि.प्र.)</p>
<p>3. Chol-Kufabag VFDS</p> <p>Secretary </p> <p>Member Secretary VFDS</p>	<p>4. Jai Mata Di SHG</p> <p>Secretary </p> <p>सचिव जय माता स्वयं सहायता समूह घोल-कुफरबाग, ग्राम ५ परगली-बदरगली तह. कोटखाई, जिला शिमला (हि.प्र.)</p>

Submitted to DMU through FTU


Forest Officer
Forest Range Kotkhai

Name and Signature of FTU officer


Forest Officer
Forest Range Kotkhai

<p>प्रधान जय माता स्वयं सहायता समूह चौले नगरपालिका, सडक नं. १, पुरानो बजारको तह. कोटखाई, जिला शिमला (हि.प्र.)</p> <p><i>[Signature]</i> Signature of SHG Secretary</p>	<p>प्रधान <i>[Signature]</i> माता स्वयं सहायता समूह चौले नगरपालिका, सडक नं. १, पुरानो बजारको तह. कोटखाई, जिला शिमला (हि.प्र.)</p> <p><i>[Signature]</i> Signature of SHG President</p>
<p>Member Secretary VFDS</p> <p><i>[Signature]</i> Signature of VFDS Secretary</p>	<p>President VFDS</p> <p><i>[Signature]</i> Signature of VFDS President</p>
<p><i>[Signature]</i> Signature of Forest Guard</p>	<p>Treasurer VFDS</p> <p><i>[Signature]</i> Signature of Block Officer</p>
<p><i>[Signature]</i> Signature of RFO Range Kotkhai</p>	

[Signature]
Approved by DMU