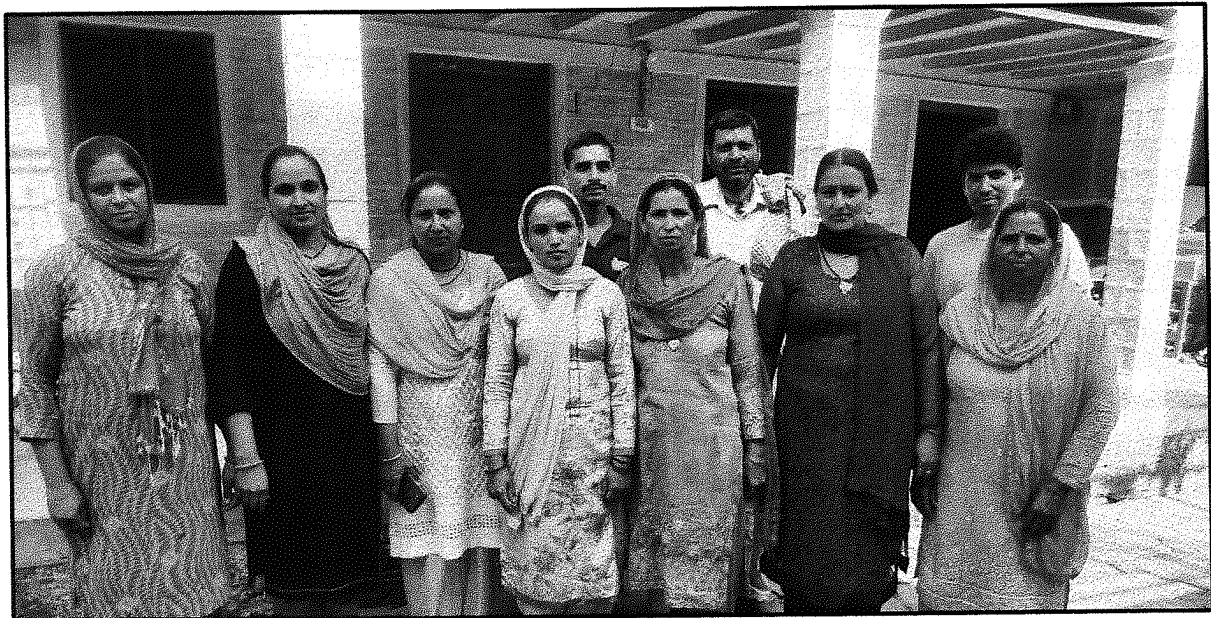
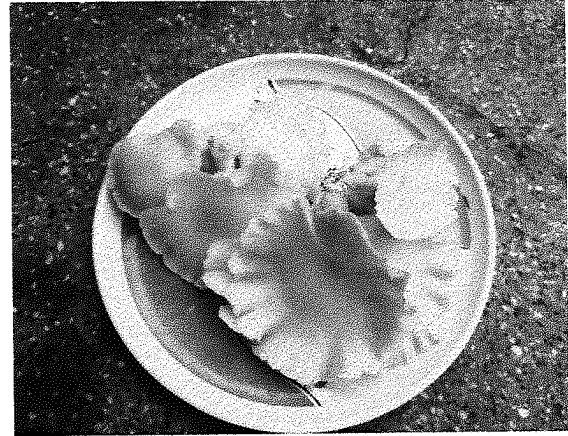
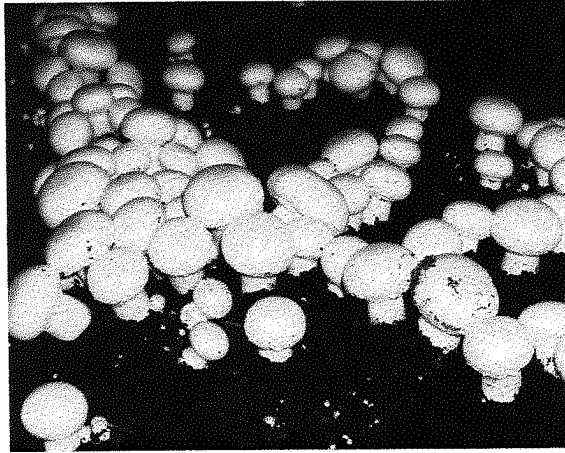




Income Generation Activity  
Business Plan Mushroom Cultivation  
2021



Shiv Shakti Self Help Group

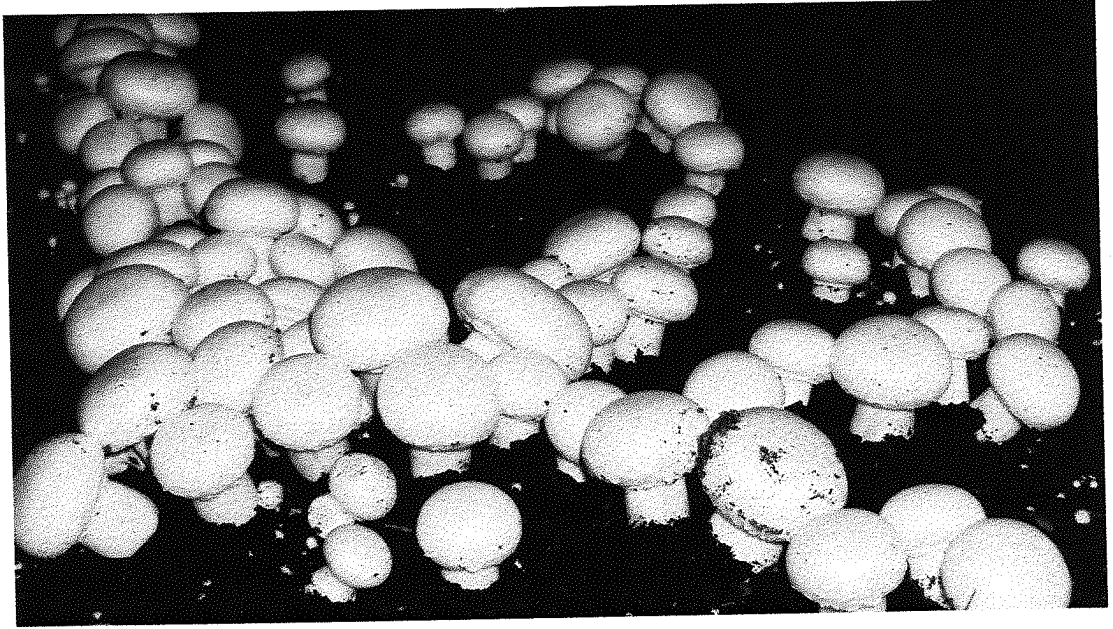
<b>SHG/Name</b>	:	Shiv Shakti SHG
<b>VFDSName</b>	:	Dolan Chhir
<b>FTU/Range</b>	:	Sarkaghat
<b>DMU/Division</b>	:	Suket
<b>FCCU/Circle</b>	:	Mandi

Sponsored by  
PIHPFEM&L

Prepared by:-  
DMU Suket, FTU Sarkaghat & SHG Shiv Shakti

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## 1. Introduction

Himachal Pradesh is majestic, almost mythic terrain and famous for its beauty and serenity, its rich culture and religious heritage. The state has diverse ecosystem, rivers and valleys, and has a population of 7.5 million and covers 55,673 sq. km ranging from foothills of Shivalik to the mid hills (300 - 6816 mts above MSL), high hills and cold dry zones of the upper Himalayas. It is spread across valleys with many perennial rivers flowing through them. Almost 90% of the state's population lives in rural areas. Agriculture, horticulture, hydropower and tourism are important constituents of the state's economy. The state has 12 districts and Mandi is 2<sup>nd</sup> district in population wise having 14.58%.

The district lies in central Himachal and is famous for its tourist stations and Himalayan Treks connecting the trails with far remote regions between the adjacent districts of Kullu Shimla, Bilaspur, Solan, Hamirpur and Kangra districts which are bordered at North-North East, East, West and South of Mandi respectively. The District is also a home to some of the Ancient settlements, Traditional Handloom and Apple Cultivation Fields & Beas and Setluj River are the life line and main drain.

The largest valley in the district is called the Balh Valley, though other valleys such Karsog and Hatli valleys are also known for the production of food grains. which is also known as the Valley of the Gods. There is also a town called Mandi which situated on the banks of the Beas River in the northern part of the Balh valley. Where people are hard working

Forests and Forest eco systems are the storehouse of rich biodiversity and play a vital role in preserving the fragile sloppy lands and were primary sources of livelihood for rural population. The rural peoples are directly dependent on the forest resources for their livelihoods and socio-economic development. The Harsh reality is this that these resources are constantly depleting due to over exploitation, such as Fodder, fuel, NTFP extraction Grazing, Fires, and droughts etc.

Under Dolan Chhir VFDS two SHGs have been formed for implementing livelihood Improvement activities. One of these is, "Shiv Shakti" concerned with Mushroom Cultivation. Group members belong to a weaker section of society and have less land holdings. To raise their socio-economic conditions, they decided to cultivate Button and Dhingri Mushrooms. Technical inputs for preparing Business Plan was provided by Dr. Pankaj Sood, Principal Scientist & Head Dr. Kavita Sharma & D S Yadav, KVK Mandi at Sunder Nagar. Team consisting of Sh. Vijay Kumar, Subject Matter Specialist, o/o DMU Sunder Nagar, Monika Kumari, FTU Co-coordinator Sarkaghat Range of Suket Forest Division, Mr. Nek Ram, Forest Guard Jamdwar Beat and Vijay Kumar D/R B.O Thauna prepared the business plan under the constant supervision and guidance of V. P. Pathania, Rtd. DFO.

## 2. Executive summary

### **Dolan Chhir : VFDS: -**

Dolan Chhir VFDS is part of Dolan and Chhir revenue muhal. It is located in Sarkaghat block of Mandi district in Himachal Pradesh and lies between 31.7342485° N latitude- 76.7729018°E longitudes. The Dolan Chhir VFDS falls under Jamdwar beat of Sarkaghat Range in Suket Forest Divisional Management Unit (DMU)

### **Important features of VFDS: -**

The area is famous for tradition houses in the village. The ward is rich in water sources and sufficient water is available in sources. The local deities are Batla temple at Chhir, known for the protection cattle's in the Jungle, whereas Lakhdatta Devta temple is located at Chhir Village. Also temple of Naina Mata situated in this Ward

No. of Households	85
BPL families	8=9.42%
Total population	267
Total Cattle	80

## 3. Description of SHG

The informal Shiv Shakti SHG group was formed in dec 2020 under dollen chhir VFDS to

provide Livelihoods Improvement Support by up gradating skill and capacities. The group consists of poor and marginal farmers.

Shiv Shakti SHG group is mixed group consist of (2male and 9female) marginal and financial weaker section of the society having less land resources. Though all Group member grow seasonal and traditional crops. but as the land holding of these members is very small and irrigation facility are less and the production level has reached near saturation, so in order to meet out their financial requirements and to contribute to the nation production' they decided to go ahead with Mushroom cultivation along with their traditional crops, which can enhance their income. There are 12 members in this group and their monthly contribution is Rs 50 /- per month. The detail of Group members is as under:-

**Detail of SHG Members along with Photos**

Sr. No.	Name	Designation	Category	Age	Qualification	Cont.No.
1.	Nirmla Devi w/o Sh. Manohar Lal	President	SC	39	10 <sup>th</sup>	98051 22685
2.	Mamta Devi w/o Sh. Guddu	Member Secretary	SC	29	12 <sup>th</sup>	7559750928
3.	Kanshi Ram s/o Sh. Suhnu Ram	Member	SC	45	5 <sup>th</sup>	96254 31296
4.	Meena Devi w/o Sh. Prakash Chand	Member	General	43	10 <sup>th</sup>	82620 87340
5.	Pammi Devi w/o Sh. Ram Nath	Member	General	50	5 <sup>th</sup>	70188 92893
6.	Sunita Devi w/o Sh. Acchar Singh	Member	SC	37	BA, B.Ed	98172 67810
7.	Sheela Devi w/o Sh. Roshan Lal	Member	SC	54	5 <sup>th</sup>	85807 60474
8.	Hoshiyar Singh s/o Sh.Lal Chand	Member	General	35	10 <sup>th</sup>	-
9.	Roop Lal s/o Sh. Luharu Ram	Member	SC	45	BA, B.Ed	80913 84753
10.	Judhya Devi w/o Sh. Naresh Kumar	Member	SC	53	5 <sup>th</sup>	98171 94516
11.	Sunita Devi w/o Sh. Dinu Ram	Member	SC	35	8 <sup>th</sup>	98178 27348
12.	Shakuntla Devi w/o Amar Dutt	Member	SC	35	10 <sup>th</sup>	-

**Photograph of Self Help Group members**



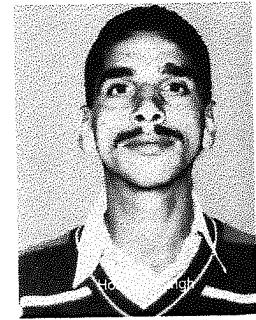
**Nirmla Devi  
(Pradhan)**



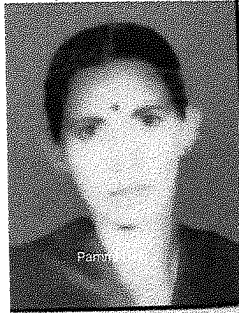
**Mamta Devi  
(Secretary)**



**Meena Devi  
(Member)**



**Hoshiyar Singh  
(Member)**



**Pammi Devi  
(Member)**



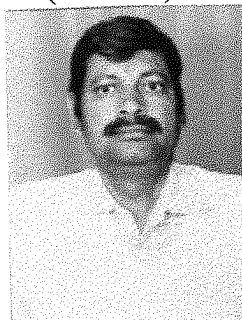
**Sunita Devi  
(Member)**



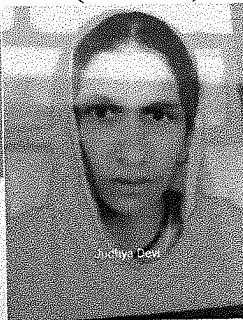
**Sheela Devi  
(Member)**



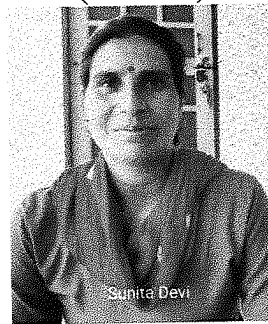
**Shakuntla Devi  
(Member)**



**Roop Lal  
(Member)**



**Sheela Devi  
(Member)**



**Sunita Devi  
(Member)**



**Group Members of Shiv Shakti SHG**

**Shiv Shakti Self Help Group Dolan Chhir**

2.1.	Name of SHG	::	Shiv Shakti
2.2	SHG/CIG MIS CodeNo	::	-
2.3	VFDS	::	Dolan Chhir
2.4	Range	::	Sarkaghat
2.5	Division	::	Suket
2.6	Village	::	Dolan Chhir
2.7	Block	::	Gopalpur
2.8	District	::	Mandi
2.9	Total no of members in SHG	::	12
2.10	Date of formation	::	December 2020
2.11	Bank Name and details	::	
2.12	Bank A/C No.	::	
2.13	SHG/monthly saving	::	Rs.650/-Month
2.14	Total Saving	::	3000
2.15	Total inter-loaning	::	Yes
2.16	Cash Credit limit	::	-
2.17	Repayment status		Quarterly Bases

### 3.1. Geographical detail of the Village

3.1	Distant from District HQ	:	55 km
3.2	Distant from Main Road	:	0 Km (But from main road 100 to 200 mts) approximately
3.3	Name of Local Market and distant	:	Sarkaghat 20km, Mandi 55 kms app.
3.4	Name of main Cities and distant	:	Sarkaghat 20KM Sunder nagar, 55 kms, Mandi 55 kms app.
3.5	Name of the main cities where Products will be sold/ marketed	:	Sarkaghat, Sundernagar, Mandi
3.6	Status of backward and forward linkages	:	Backward linkages Training, (KVK)compost bags span added (Horticulture dept.) and Forward linkages Markets exits suppliers etc.

### 4. Description of product related to Income Generating Activity.

4.1	Name of the Product	::	The Group will be involved in production of Button Mushrooms and Dhingri in controlled environment.
4.2	Method of Product Identification	::	Though the entire Group member grows seasonal traditional crops. As their land holding is very small, has reached in saturation point of production, so they are not able to meet out their financial requirements' therefore it has been decided by the group member that Mushroom cultivation will enhance their income. Further they usually go to sell their traditional crops in Sarkaghat Rewalsar and Sunder nagar Market. Market linkages are already in place. They do not have to spend extra time and money for marketing Mushrooms.
4.3	Consent of SHG /CIG/ Cluster	::	Consent is attached as an Annexure.



## 5. Production Processes

The training of Mushroom cultivation has been arranged by JICA project at KVK Sundernagar. The full cost of training with spot demonstration is born by the JICA Project.

The Group decided initially to start with Dhingri Mushroom Production, as training has been completed during February and the following months of march April/May, June July are more suitable for cultivating this mushroom. 250 Compost spawn added Bags will be purchased and fixed in hired/ rented room.

Three tier wooden /Bamboo racks fitting, along with two Exhaust fans one for fresh air and another at the bottom to expel out the inner air will be installed. one ceiling Fan to lower the room temperature and other (heat blower) to increase the room temperatures, one Dry and wet thermometers will be installed in the hall to maintain the required room temperature. The room will be washed and sanitized with formalin (5ml/liter) twice to thrice before loading the Bags. The business plan with two crops of Button Mushrooms and two crop of Dhingri (70 to 75 days cycle for each). (August to Feb are best months for Button Mushroom and March to July for Dhingri) has been prepared after having through discussions with the group.

The Group members will work 1hrs daily, half an hour in the morning and half an hour in the evening.

## 6. Description of Production Planning:

6.1	Production Cycle(75 days)	::	<p>In Mandi district Button Mushroom can be grown from September to March. After adding spawn in the compost bag, mushroom takes 30 to 40 days to pinup. There after three flushes can be taken .In total 75 days are required to take the three flushes of mushroom crop. The production cycle of one crop will be 75days.In a year four cycles of crop will be repeated as per detailbelow:-</p> <p>1<sup>st</sup> crop of Dhingri Mushroom (May to end of July).</p> <p>2<sup>nd</sup> crop of Button Mushroom (Sept to November = 75days)</p> <p>3<sup>rd</sup> crop of Button Mushroom, (Nov to January =75 days)</p> <p>4<sup>th</sup> crop of Dhingri Mushroom ( February to April= 75 days)</p>
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6.2	Manpower required (No)	::	<p>Initially whole group will work together to install/ construct theracks, clean the room and carry compost bags from the road to production sites. Thereafter for first 30 days 2 persons for 1 hours (1/2 an Hour Morning and 1/2 an hour evening) on rotation bases will work for cleaning, moistening, temperature regulation etc.</p> <p>For next 31 to 75 days 4-person 3 hours for harvesting, caging soil, cleaning, weighing and packing.</p> <p>Marketing hours are not included as one of the members will sell mushrooms along with vegetables in the market regularly.</p> <p>Compost making 4 persons will work for 2 hours for 2 days.</p> <p>Labour work will be for total 706 hrs, if we divide it by 8 (hours) it will be 88 days and multiply it by wages rate of Rs 275/day then the cost of labour comes out to be Rs 24200/-</p>
6.3	Source of raw material	::	Horticulture Department, Palampur and Solan district of Himachal Pradesh. Generally, all materials are available in Sundernagar KVK.
6.4	Source of other Resources.	::	-do-
6.5	(i) Quantity required for Button Mushroom (75 days)  (ii) Quantity required for one cycle of Dhingri i.e. 75 days	::	<p>250 Compost Spawn added Bags, Formalin, 200ml, Bavistin 100 g, packing material (polythene sleeves) 3kg.</p> <p>For Dhingri Spawn: 25 kg, Wheat or other crop straw: 500 kg, Formaline: 2 liter, Bavistin: 100 g, Polysheet: 1 300 transparent Polythene Bags for Dhingri compost, Polythene sleeves 5 kg (3kg for fresh and 2 kg for replacement of torn bags)</p>

6.6	Expected production in 75 days	::	<p><b>Dhingri</b>:-The average production of Dhingri from one bag of compost is around 1.6 kg. For 250 bags the yield will be <b>400 kg</b> of Dhingri.</p> <p><b>Button Mushrooms</b>:- The average production of Mushroom from one Bag is 2.0 kg /1 Bag = 2.0 kg 250 Bags x 2.0 kg. = <b>500 kg.</b></p>
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## 7. Description of Marketing /Sale

7.1	Potential Market Places	::	Durgapur, Rewalsar, Mandi, Sundernagar.
7.2	Distance from unit	::	Durgapur 10 Km, Rewalsar 21 Km, Mandi 45 Km, Sundernagar 55 Km.
7.3	Demand of the Product in Market		Mushrooms are always in demand throughout the year.
7.4	Process of Identification of Market	::	The market for vegetable selling is well established in Sundernagar town.
7.5	Impact of seasonality on Market.	::	Mushrooms are all weather delicacy and are in high demand throughout the year. However, during summer, and marriage ceremonies demand rises high.
7.6	Potential buyers of the Product.	::	Potential Market Buyers are Hospitals, Hotels, Hostels, Shops, Local residents/ Marriage and other ceremonial occasions etc.
7.7	Potential consumers in the area.	::	All Health-conscious citizens /Households.
7.8	Marketing mechanism of the Product.	::	Daily supply of the Mushrooms to the Market on Demand Basis and group will also sell these in open Market of Rewalsar and Durgapur Bazar along with local vegetables.
7.9	Marketing strategy of the Product.	::	Initially group will contact all the vegetable retail sellers of Sundernagar town, thereafter on increase of production, the retail sellers of Mandi market will also be contacted to sell their product on net rate or commission basis.
7.10	Product Branding.	::	"Dolan Chhir Fresh Mushrooms".
7.11.	Product Slogan	::	" <b>Mushroom Khao Sehat Banao</b> "

## 8. Description of Management among the Members

All Members will take training and divide themselves for daily work operations, Marketing, Linkages with department and with VFDS.

## 9. SWOT Analyses

Sl.no	Detail/Items	:	Description
1.	Strength	::	All Group members are like minded, well adapted to local and social environment. Production cost is less, Produce is of high quality and Demand, growing cycles are short, production will be throughout the year. Readymade Compost bag are available with Horticulture department at Palampur and Solan. For SHG Financial support Trainings and exposures will be organized by JICA Forestry Project.
2.	Weakness	::	New elf- help Group, lack of experience in Mushroom production /cultivation.
3.	Opportunity	::	Demand is high and return is high.
4.	Threats	::	Internal Conflict in Group, lack of Transparency, and lack high Risk bearing capacity

## 10. Description of Potential risks and measures to mitigate them

Sl.no	Potential risks	:	Measures to mitigate them.
1.	1. At times Harmful infection can destroy the crop 2. Temperature Maintenance and regulations 3. Market saturation	:	First of all, cleanness is to be maintained by washing hands And feet with soap and dip in formalin solution before Entering into the room. Only 2 to 3 persons will enter the room with full kit (cap, Gloves, apron etc.). Regular sprays to avoid fungal attack. With the help of thermo meters, the required temperatures will be maintained with given devices. To do Value addition or dry mushrooms for making Mushroom Pickles, soups and other products etc. in the later Years of production.
2.	Internal Conflict in Group, Transparency	:	Conflicts to be dealt within the initial stage, to eradicate the cause. Equal exposure to all Group members, equal benefit sharing needed Give Respect, and honour to every member.
3.	Market	:	Market is always fluctuating; Demand and supply are always at variance. So members to keep on searching new markets and buyers.
4.	Production	:	Production will be increased slowly as per the market Demand and members' experience.

## 11. Description of Economics of the Project.

### 1<sup>st</sup> Cycle

S. No	PROJECT COST	Amount in Rs.
<b>A</b>	<b>Capital cost</b>	
A.1	Construction of three tire wooden/Bamboo racks fitting	15,000
a	Ceiling Fan(1No)	2500
b	Exhaust fans (2)	3000
c	Room heat/blower/	1500
d	Dry and wet thermometer (1set)	1000
e	Weighing electronic machine (1no)	900
f	Hot plastic ceiling rod (1no)	800
g	Medium spray pumps (1no)	1800
h	Set of sharp knives no (1set)	75
i	Scissor, (2no)	400
j	Trays/Basket (6no)	600
k	Crate (4no).	2400
l	Water tanks 1000 litre 1no including carriage	8000

m	Water and electricity fitting material & Charges	4000
n	Miscellaneous expenditure	3000
	<b>Total Capital Cost</b>	<b>44975</b>
<b>B. RECURRING COST of First Cycle (75 days)</b>		
B.1	Cost of Rented Room 1 Hall (mushroom growing Unit) @ Rs. 1000/ Month. (3month) =	3,000
B.2	Formalin	600
B.3	Labour wages 88 day=(@Rs 275/day)= Rs 24200	24200
B.4	Dhingri Compost Bags 250 no @Rs 40 per bag and other raw Material including carriage	10000
B.5	Packaging (packaging material etc.)	3000
B.6	Transportation	1000
B.7	Electricity and water usage charges @ Rs1000 per month	3000
B.8	Miscellaneous expenditure (stationery, Bill book, receipt etc.)	1500
	<b>Recurring Cost of one cycle=B1+B2+B3+B4+B5+B6+B7+B8</b>	<b>46300</b>
	<b>Total Project cost (A+B)=44975+ 46300=91275</b>	<b>91275</b>

#### Cost Benefit Analysis First Cycle:-

Sr. No	Particular	Unit	Quantity/no	Rate	Amountin (Rs)
A	<b>Depreciation 10% on Capital Cost</b>	Month	3	10%	<b>1125</b>
B	Recurring Cost for 3Months				
1.	Cost of Rented room 1 Hall (mushroom growing Unit) @Rs1000/ Month.(3month)	Month	3	1000	3,000
2.	Formalin containing 250 in each Bottle.	No	2 bottle	300	600
3.	Labour wages 88 days=(@ Rs 275/day) = Rs. 24200	Days	88	275	24200
4.	Dhingri Compost Bags 250 no @ Rs. 40 per bag and other raw material including carriage	No	250	40	10000
5.	Packaging (Packaging material etc.)	Kg	5	600	3000
6.	Transportation Charges	-	-	-	1000
7.	Electricity and water usage charges @Rs 1000 per month	Month	3	1000	3000
8.	Miscellaneous expenditure ( stationery, Bill book, receipt etc.)		L/S	-	1500

	<b>Total</b>			<b>46300</b>
9.	Total Production in Kg.	Dhingri Compost		400 kg 500 kg
10.	Sale of Production in Kg.	Dhingri 400 kg @ Rs 150 Compost 500 kg @ 5		60000 2500
			<b>Total</b>	<b>62500</b>
11.	Total Benefit	62500-(1125+46300)		15075
12.	Grossprofit	Total Profit + Labour wages+ Room Rent 15075+(24200+3000)=		42275
13	Net amount out of benefit to be reserved for Returned of 2 <sup>nd</sup> and 3 <sup>rd</sup> installment			14494
14.	<b>Amount available for Distribution of benefit among members in 1<sup>st</sup> cycle=Sale of product– (Principal amount + interest +recurring cost +Remaining amount of 2<sup>nd</sup> and 3<sup>rd</sup> installment)</b> <b>62500–(18563+1437+46300+14494)</b>			<b>-18294</b>

Note: - Out of amount Rs 14494 will be kept reserve for payment of remaining amount of loan of 2<sup>nd</sup> and 3<sup>rd</sup> installment.

#### Cost Benefit Analysis Second Cycle

Sr. no	Particular	Unit	Quantity/no	Rate	Amount in (Rs)
A	<b>Depreciation 10% on Capital Cost</b>	Month	3	10%	<b>1125</b>
B	Recurring Cost for 3 Months				
1.	Cost of Rented room 1 Hall (mushroom growing Unit) @ Rs1000/Month. (3 month)	Month	3	1000	3,000
2.	Formalin containing 250 in each Bottle.	No	2 bottle	300	600
3.	Labour wages 88 days=(@ Rs 275/day) =Rs24200	Days	88	275	24200
4.	Button Mushroom Compost Bags 250 no @ Rs 90 per bag and other raw material Including carriage	No	250	90	22,500
5.	Packaging (packaging material etc.)	Kg	2.5	600	1500
6.	Transportation Charges	-	-	-	1000
7.	Electricity and water usage charges @Rs 1000 per month	Month	3	1000	3000
8.	Miscellaneous expenditure (stationery, Bill book, receipt etc.)		L/S	-	1500
	<b>Total</b>				<b>57300</b>

9.	<b>Total Production in Kg.</b>	Button Mushroom Compost	500kg 750kg
10.	<b>Sale of Production in Kg.</b>	500 kg @ Rs150  Compost 750 kg @ Rs10	75000  7500
		<b>Total</b>	<b>82500</b>
11.	<b>Total Profit</b>	<b>82500 -(1125+57300)</b>	<b>24075</b>
12.	<b>Gross profit</b>	<b>Total Profit + Labour wages+ Room Rent</b> <b>24075+(24200+3000) =</b>	<b>51275</b>
13.	<b>Amount available for Distribution of benefit among members in second cycle= Sale of product – (Principal amount + interest + recurring cost)</b> <b>82500–(19032 + 968 + 57300)</b>		<b>5200</b>

Note: - Out of amount Rs. 14494 kept reserve in first cycle the above amount Rs. 7300 will be paid for second installment of loan and remaining amount Rs. 7194 will be kept reserve for third installment.

#### Cost Benefit Analysis Third Cycle

Sr. No	Particular	Unit	Quantity/no	Rate	Amount in (Rs)
A	<b>Depreciation 10% on Capital Cost</b>	Month	3	10%	<b>1125</b>
B	Recurring Cost for 3 Months				
1.	Cost of Rented room 1 Hall (mushroom growing Unit) @Rs1000/Month.(3month)	Month	3	1000	3,000
2.	Formalin containing 250 in each Bottle.	No	2 bottle	300	600
3.	Labour wages 88 days=(@ Rs 275/day) =Rs.24200	Days	88	275	24200
4.	Button Mushroom Compost Bags 250 no @ Rs 90 per bag and other raw material including carriage	No	250	90	22,500
5.	Packaging (packaging material etc.)	Kg	2.5	600	1500
6.	Transportation Charges	-	-	-	1000
7.	Electricity and water usage charges @ Rs 1000 per month	Month	3	1000	3000
	<b>Total</b>				<b>55800</b>
8.	<b>Total Production in Kg.</b>	Button Mushroom Compost			500kg 750kg
9.	<b>Sale of Production in Kg.</b>	500 kg @ Rs 150 Compost 750 kg @ Rs 10			75000 7500
		<b>Total</b>			<b>82500</b>
10.	<b>Total Profit</b>	<b>82500 - (1125 + 55800)</b>			<b>25575</b>



11.	<b>Grossprofit</b>	Total Profit + Labour wages+ Room rent 25575 +(24200 + 3000)=	52775
13.	<b>Amount available for Distribution of benefit among members in third cycle= Sale of product– (Principal amount + interest + recurring cost)</b> <b>82500 –(19405+489+55800)</b>		<b>6806</b>

Note:-Out of remaining amount Rs.7194 kept reserve in second cycle the above amount will be paid third installment of loan.

#### Cost Benefit Analysis Fourth Cycle

Sr. no	Particular	Unit	Quantity/no	Rate	Amount in (Rs)
A	<b>Depreciation 10% on Capital Cost</b>	Month	3	10%	<b>1125</b>
B	Recurring Cost for 3 Months				
1.	Cost of Rented room 1 Hall (mushroom growing Unit) @Rs1000/Month.(3 month)=	Month	3	1000	3,000
2.	Formalin containing 250 in each Bottle	No	2 bottle	300	600
3.	Labour wages 88 days=(@ Rs 275/day) =Rs24200	Days	88	275	24200
4.	Dhingri Compost Bags 250 no @ Rs. 40 per bag and other raw material including carriage	No	250	40	10000
5.	Packaging (packaging material etc.)	Kg	5	600	3000
6.	Transportation Charges	-	-	-	1000
7.	Electricity and water usage charges @ Rs 1000 per month	Month	3	1000	3000
	<b>Total</b>				<b>44800</b>
9.	Total Production inKg.	Dhingri Mushroom Compost			400kg 500kg
10.	Sale of Production in Kg.	Dhingri 400 kg @ Rs 150 Compost 500 kg @ 5			60000 2500
				<b>Total</b>	<b>62500</b>
11.	<b>Total Profit</b>	<b>62500 –(1125+44800)</b>			<b>16575</b>
12.	<b>Gross profit</b>	<b>Total Profit + Labour wages + Room rent</b> <b>16575 +(24200+3000) =</b>			<b>43775</b>
13.	<b>Amount available for Distribution of benefit among members in fourth cycle= Sale of product –(Principal Amount +Interest + recurring cost for nextcycle)</b> <b>=43775–(0+0+44800)</b>				<b>(-)1025</b>

<b>C.</b>	<b>INCOME</b>	
<b>C.1</b>	<b>Direct income</b>	
	(i) <b>First Cycle</b> Dhingri	(-)18294
	(ii) <b>Second Cycle</b> Button Mashroom	5200
	(iii) <b>Third Cycle</b> Button Mashroom	6806
	(iv) <b>Fourth Cycle</b> Button Mashroom	(-)1025
	<b>Total Direct Income</b>	<b>0</b>
<b>C.2</b>	<b>Indirect Income</b>	
	<b>Labour wages</b>	
	(i) <b>First Cycle</b>	24200
	(ii) <b>Second Cycle</b>	24200
	(iii) <b>Third Cycle</b>	24200
	(iv) <b>Fourth Cycle</b>	24200
	<b>Total</b>	<b>96800</b>
	<b>RoomRent</b>	
	(i) <b>First Cycle</b>	3000
	(ii) <b>Second Cycle</b>	3000
	(iii) <b>Third Cycle</b>	3000
	(iv) <b>Fourth Cycle</b>	3000
	<b>Total</b>	<b>12000</b>
	<b>Total Indirect Income</b>	<b>108800</b>
	<b>Gross Income</b>	<b>108800</b>

## 12. Summary of Economics

### (a) Cost of Production in Four Circle

Sr. No.	Particular	Amount in Rs.
1	Total Recurring Cost	
	(i) <b>First Cycle</b> Dhingri	46300
	(ii) <b>Second Cycle</b> Button Mashroom	57300
	(iii) <b>Third Cycle</b> Button Mashroom	55800
	(iv) <b>Fourth Cycle</b> Dhingri	44800
	<b>Total</b>	<b>204200</b>

2	10% Depreciation values on Capital Cost (Annually).	4498
3	10% Interest on Loan	2894
	<b>Total</b>	<b>211592</b>

**(b) Abstract of Production Cost**

Sr.No	Details	Amount (Rs)
1	Recurring cost	204200
2	10% depreciation value on capital cost	4498
3	10% Interest on loan	2894
	<b>Total</b>	<b>211592</b>

**(c) Assessment of sale value**

Sr.No	Details	Unit	Amount(Rs)
1	Recurring cost (204200/1800)	Kg	114
2	Profit Fixed 32%	Kg	36
	<b>Total</b>		<b>150</b>
3.	<b>Market Price</b>	<b>Kg</b>	<b>150</b>

**13. Benefit Cost Analysis (Yearly)**

Sr.No	Particulars	Amount(Rs)
1	10% depreciation on capital cost (a)	4498
2	Recurring cost (b)	
2.1	Room Rent	12000
2.2	Labour	96800
2.3	Cost of compost bag	65000
2.4	Formalin	2400
2.5	Packaging (packaging material etc.)	9000
2.6	Transportation Charges	4000
2.7	Electricity and water usage	12000
2.8	Miscellaneous expenditure (stationery, Bill book, Receipt etc.)	3000
	<b>Total</b>	<b>204200</b>
3	Total Production of Dhingri and Button Mushroom	1800Kg
4	Sale value of Dhingri and Button Mushroom	270000
5	Sale value of compost	20000
	<b>Total</b>	<b>290000</b>
6	Total Profit = Sale value-(Capital cost + Recurring cost) =290000-(44975+204200)	40825

7	Gross Profit= Total profit + Labour wages + Room rent =40825+96800+12000	149625
8	Distribution of profit among the members of group after four cycle = Total Profit – (Principal amount +Interest+ Recurring cost for fifth cycle) =40825-(0+0+44800)	-3975

**Note:-**This amount is excluding Labour wages and room rent.

From the above it is clear that each member will get no additional income after completion of four cycles of 75 days. The overall benefit of 40825 is in the form of the recurring cost of fifth cycle stand invested.

#### 14. Resources of Funds and Fund Requirement

Sr. No	Detail of Resources	Amount in Rs.
1	Project share on Capital cost of 44975 (50%)	22488
2.	Monthly contribution till date	3000
3.	Loan from bank	57000
	<b>Total</b>	<b>82488</b>

- Rs. one lac will be provided to self help Group as a revolving fund to take the loan from bank.
- 50% of Capital cost will be borne by Project.

#### 15. Computation of Break – even Point

**Break-even Point**=Capital Cost/Sale/kg.-Recurring Cost/Kg.

$$=44975/150 -114$$

$$=44975/36=1249\text{Kg}$$

After sales of 1249 kg Dhingri and Button mushroom breakeven point can be achieved after three months.

## 16. Loan Repayment Schedule on (10%Interest)

S.no	Month	Loan Return			Cumulative Loan Return	Loan Remains		
		Princip al Amount	Interest	Total		Princip al Amount	Interest	Total
	Month-1	0	0	0	0	57000	475	57475
2	Month-2	0	0	0	0	57475	479	57954
3	Month-3	0	0		0	57954	483	58437
4	Month-4	18563	1437	20000	20000	38437	320	38757
5	Month-5	0	0	0	0	38757	322	39057
6	Month-6	0	0	0	0	39057	326	39383
7	Month-7	19032	968	20000	20000	19405	162	19567
8	Month-8	0	0	0	0	19567	163	19730
9	Month-9	0	0	0	0	19730	164	19894
10	Month-10	19405	489	19894	19894	0	0	0
11	Total	<b>57000</b>	<b>2894</b>	<b>59894</b>	<b>59894</b>		<b>2894</b>	

### 17. Remarks:

The forth coming vision of the Group is to enhance their income by value addition in the form of Pickles, readymade soups, dried mushrooms etc.

### Surprising Mushroom Health Benefits for Your Skin, Brain, and Bones

"They contain many minerals, like selenium, potassium, copper, iron and phosphorus that are not often found in plant-derived foods."

1. Mushrooms may help keep you young.
2. Mushrooms can protect your brain as you age.
3. Mushrooms may boost your memory.
4. Mushrooms can help your heart health.
5. Mushrooms can assist in strengthening your bones.
6. Mushrooms will help give you energy
7. Mushrooms helps infighting many diseases specially CANCER.

*Delicacy of Mushrooms is special Dish, Tasty, Healthy and affordable.*

### Annexure

We the member group here by consented to actively participate in the IGA activity Opted by the group (Mushroom cultivation activity) as per the guideline of JICA project For Improvement of HP Ecosystems management and livelihood and coordination with the VFDS.

The detail of members is as under

Sr. No.	Name	Designation	Category	Signature
1.	Nirmala Devi w/o Sh. Manohar Lal	President	SC	Nirmala Devi
2.	Mamta Devi w/o Sh. Guddu	Member Secretary	SC	Mamta Devi
3.	Kanshi Ram s/o Sh. Suhnu Ram	Member	SC	Kanshi Ram
4.	Meena Devi w/o Sh. Prakash Chand	Member	Oren	Meena Devi
5.	Pampi Devi w/o Sh. Ram Nath	Member	Oren	Pampi Devi
6.	Sunita Devi w/o Sh. Acchar Singh	Member	SC	Sunita
7.	Sheela Devi w/o Sh. Roshan Lal	Member	SC	Sheela Devi
8.	Hoshiyar Singh s/o Sh. Lal Chand	Member	Oren	Hoshiyar Singh
9.	Roop Lal s/o Sh. Luharu Ram	Member	SC	Roop Lal
10.	Judhya Devi w/o Sh. Naresh Kumar	Member	SC	Judhya Devi
11.	Sunita Devi w/o Sh. Dinu Ram	Member	SC	Sunita Devi

Manda Devi  
Signature of secretary ✓  
सचिव  
ग्राम शक्ति सम्मान कार्य  
समूह गांव डोलन डा०ब्रांग  
उप त० मण्डप जिला मण्डी

✓  
प्रधान  
Signature of Pradhan  
ग्राम शक्ति सम्मान कार्य  
समूह गांव डोलन डा०ब्रांग  
उप त० मण्डप जिला मण्डी

Signature of VFDS Secretary

प्रधान  
ग्रामीण वन विकास  
डोलन गांव डोलन डा०ब्रांग  
Signature of VFDS Pradhan  
सरकाघाट, जिला मण्ड.

Signature of Fgd

Signature of Block Officer

Signature of RFO

Approved by DMU  
Divisional Forest Officer  
Suket Forest Division  
Sunder Nagar (HP)