



Income Generation Activity
Business Plan Mushroom Cultivation 2021



Devi Dayal Common Interest Group of VFDS Thatibir.

SHG/Name	:	Devi Dayal CIG
VFDSName	:	Thatibir
FTU/Range	:	Tirthan
DMU/Division	:	Seraj (Banjar)
FCCU/Circle	:	Kullu (HP)

Sponsored by
PIHPFEM&L

Prepared by: -
DMU Banjar, FTU Tirthan & SHG Devi Dayal

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1. Introduction

Himachal Pradesh is majestic, almost mythic terrain and famous for its beauty, serenity and its ultra-cultural-religious heritage. The state has diverse ecosystem and geography having sky touching tranquil mountains, meandering rivers and thickly populated valleys. It has a population of 7.5 million and covers 55,673 sq.km ranging from foothills of Shivalik to the mid hills (300 - 6816 mtrs (above MSL), high hills and cold dry zones of the upper Himalayas. It is spread across valleys with many perennial rivers flowing through these valleys. Almost 90% of the state's population lives in rural areas. Agriculture, horticulture, hydro-power and tourism are important constituents of the state's economy. The state has 12 districts and Kullu is 9th district in population wise having 6.38% as per population census of 2011.

The Kullu 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 Lahaul and Spiti, Kinnaur, Mandi and Kangra districts which are borders at North, North-East, East, West and South of Kullu respectively. The District is also a home to some of the Ancient settlements, Traditional Handloom and Apple Cultivation.

The largest valley in the district is called the Kullu Valley, which is also known as the valley of GODs. The Distt. Headquarter is at a town called Kullu located on the banks of Beas river in central part of the valley. The Parvati river is a major tributary of River Beas confluencing with it at Bhuntar. The Parvati valley is very narrow and runs East wards from

Bhuntar town and airport. Other important valleys of Kullu district are Lag valley, Manikaran valley, Ujhi valley, Sainj valley and Banjar valley which are known for vegetable, cereal crop production and apple cultivation. Tourism is another source of income generation in these valleys. The rural population is directly dependent on the forest resources for their livelihoods and socio-economic development. As a result of this, hard facts are that these resources are constantly depleting due to overexploitation for daily needs such as fodder, fuel, NTFP extraction, Grazing, etc.

In Thatibir VFDS two SHGs have been constituted for implementing livelihood improvement activities. One of these is- "Devi Dayal" CIG concerned with Mushroom Cultivation and another is "Iaxmi" handloom SHG. In Devi Dayal group members belong to a weaker section of society and have less landholdings. To improve their socio-economic conditions on a sustainable basis they have decided to cultivate Button and Dhingri varieties of Mushrooms. Technical inputs for preparing Business plan were provided by the Scientists of Krishi Vigyan Kendra (KVK) Bajaura district Kullu. Team consisting of Sh. Joginder Singh SMS, o/o DMU Banjar, Sanjao Devi, FTU Tirthan Forest Range of Banjar Forest Division, and Hukam Chauhan BO prepared the business plan under the constant supervision and guidance of Sh. G.S. Chandel HPFS (Retd. DFO).

2. Characteristics of THATIBIR VFDS:

The Thatibir VFDS falls under the development block Banjar, Panihar Forest Beat of Tirthan Forest Range in Seraj (Banjar) Forest Division.

Important characteristics of VFDS: -

VFDS Thatibir is spread over three panchayat wards viz: Pataula, Shahila and Shukaribir, covering 235 households. The main Deity of area is "Kantha Nag". A village fair called "Fagli fair" is celebrated in the month of February in which thousands of people gather from far flung areas to seek the blessings of Devta-Kantha Nag.

No. of Households	235
BPL families	25 (11%)
Total population	1074
Total Cattle population	523

3. Description of SHG/CIG

The Devi Dayal CIG was formed on 18th February, 2021 under Thatibir VFDS to provide Livelihood Improvement Support by up grading skill and capacities. The group consists of poor and marginal farmers. The Devi Dayal CIG is purely a men group comprising of marginal farmers and financial weaker section of the society having poor land resources. Although all Group member grow seasonal vegetables and fruits etc. but as the land holding of these members is very small and irrigation facility is poor, hence the production level is quite below the average standard. Hence in order to meet out their increasing financial requirements, they decided to go ahead with Mushroom cultivation business expecting that it will enhance their income. There are eleven members in this group and their monthly subscription is Rs 100/- per month. The detail of Group members is as under: -

Detail of CIG Members along with Photos:

Sr. No.	Name	Name of Father/ Husband	Designation	Category	Age in years	Qualifi cation	Cont.No.
1.	Sh. Om Dev	Sh. Khub Ram	Pradhan	General	52	10th	8219602805
2	Sh. Amer Chand	Sh. Duni Chand	Secretary	OBC	24	12th	8580645641
3	Sh. Manohar Lal	Sh. Khimi Ram	Cashier	General	46	12th	8894288326
4	Sh. Sesh Ram	Sh. Hira Lal	Member	OBC	36	8th	9816147024
5	Sh. Dimpu	Sh. Pune Ram	Member	OBC	20	12th	7876232942
6	Sh. Roshan Lal	Sh. Jhabe Ram	Member	OBC	31	10th	8580660081
7	Sh. Chhabe Ram	Sh. Ved Ram	Member	OBC	34	10th	9805505349
8	Sh. Hans Raj	Sh. Tej Ram	Member	General	40	12th	8219266093
9	Sh. Dola Dutt	Sh. Khimi Ram	Member	General	51	10th	8629832910
10	Sh. Om Prakash	Sh. Mohan Lal	Member	General	36	10th	8627086283
11	Sh. Mukesh Sharma	Sh. Om Prakash	Member	General	24	12th	9818060910

Photograph of Common Interest Group Members.



Om Dev
(Pradhan)



Amar Chand
(Secretary)



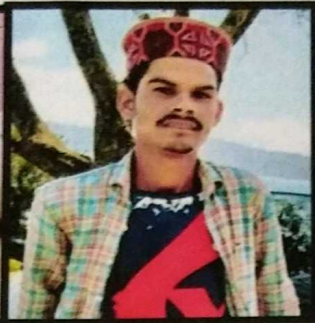
Manohar Lal
(Cashier)



Roshan Lal
(Member)



Chape Ram
(Member)



Dimpu
(Member)



Ses Ram
(Member)



Om Prakash
(Member)



Dola Dutt
(Member)



Mukesh Sharma
(Member)



Hans Raj
(Member)



Group Photo of Common interest group- Devi Dayal under VFDS Thatibir.

3.1 Devi Dayal CIG Thatibir

3.1.1	Name of CIG	::	Devi Dayal
3.1.2	SHG/CIG MIS Code No.	::	-
3.1.3	VFDS	::	Thatibir
3.1.4	Range	::	Tirthan
3.1.5	Division	::	Seraj (Banjar)
3.1.6	Village	::	Naruli, Pataula, Nalaban
3.1.7	Block	::	Banjar
3.1.8	District	::	Kullu
3.1.9	Total no of members in CIG	::	11
3.1.10	Date of formation	::	18 February, 2021
3.1.11	Bank Name and details	::	KCCB Banjar IFSC Code KACE0000010
3.1.12	Bank A/C No.	::	50072702481
3.1.13	SHG/monthly saving	::	Rs.1100/-Month
3.1.14	Total Saving	::	11000/-
3.1.15	Total inter-loaning	::	nil
3.1.16	Cash Credit limit	::	quarterly
3.1.17	Re-payment status		quarterly

3.2. Geographical detail of the Village

3.2. 1	Distance from District HQ	:	60 km
3.2. 2	Distance from Main Road	:	11 Km (But from link road 100 to 200 mts) approximately
3.2. 3	Name of Local Market and distance	:	Balichowki-15 kms, Banjar- 18 kms, Takoli- 45 Km.
3.2. 4	Name of main Cities and distance	:	Kullu-60 kms, Bhunter -50kms
3.2. 5	Name of the main cities/towns where Products will be sold/ marketed	:	Balichowki, Takoli, Bhunter, Kullu and Banjar
3.2. 6	Status of backward and forward link ages	:	Backward linkages Training through (KVK,) compost supply by Horticulture deptt. and Forward linkages Market and its suppliers etc.

4. Description of product related to Income Generating Activity.

4.1	Name of the Product	::	The Group is interested in production of Button Mushrooms and Dhingri in controlled environment.
4.2	Method of Product Identification	::	Though the entire Group members grow seasonal vegetable crops but as their land holding is very small and has reached insaturation point of production even then they are not able to meet out their financial requirements. Therefore, it has been decided by the group members that crop variation as Mushroom cultivation will play an important role in enhancing their economy. Further they usually sale their vegetable crops in Banjar, Balichowki and Takoli marketing <i>Mandis</i> . Market linkages are already in place. Hence they do not have to spend extra time, skill and funds for marketing Mushrooms.
4.3	Consent of SHG/CIG/ Cluster	::	Consent is attached as an Annexure 22.

5. Production Processes.

The training of Mushroom cultivation has been arranged by JICA project at KVK Bajaura w.e.f. 22.11.2021 to 26.11.2021 The full cost of training with spot demonstration will be borne by the JICA Project.

The training will be imparted in November and the following months of March April/May. June/July the 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 fitted 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 one heater/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/litre) twice to thrice before loading the Bags. The business plan with two crops of Button Mushrooms and two crops of Dhingri (70 to 75 days cycle for each) has been prepared after having thorough discussions with the group and experts. August to February are best months for Button Mushroom and March to July for Dhingri.

The Group members will work 1 hour daily i.e., 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 Kullu District Button Mushroom can be grown from September to March. After adding spawn in the compost bag, mushroom takes 30 to 40 days to pin up. Thereafter 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 75 days. In a year four cycles of crop will be repeated as per detail below: -</p> <p>1st crop of Dhingri Mushroom (May to end of July = 75 days). 2nd crop of Button Mushroom (Sept to November = 75 days) 3rd crop of Button Mushroom (Nov to January = 75 days) 4th 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 the racks, clean the room and carry compost bags from the road to production sites. Thereafter for first 30 days 2 persons for 1 hour (1/2 an hour in the morning and 1/2 an hour in the 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 etc.</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/ mixing-4 persons will work for 2 hours for 2 days. 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 300/day then the cost of labour comes out to be Rs 26400/-</p>
6.3	Source of raw material	<p>:: Horticulture Department, Palampur and Solan District of Himachal Pradesh. Generally, all materials are available in Bajoura KVK.</p>
6.4	Source of other Resources.	<p>:: -do-</p>
6.5	<p>(i) Quantity required for one cycle Button Mushroom (75 days)</p> <p>(ii) Quantity required for one cycle of Dhingri i.e., 75 days</p>	<p>:: 250 Compost spawn added Bags, Formalin, 200ml, Bavistin 100 gm, packing material (polythene sleeves) 3kg.</p> <p>For Dhingri Spawn: 25 kg, Wheat or other crop straw: 500 kg, Formalin: 2 litre, 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>:: Dhingri: - The average production of Dhingri from one bag of compost is around 1.6kg. For 250 bags the yield will be 400 kg of Dhingri.</p> <p>Buttons Mushrooms: - The average production of Mushroom from one Bag is 2.0 kg/1 Bag = 2.0kg 250 Bags x 2.0kg = 500kg.</p>

7. Description of Marketing / Sale

7.1	Potential Market Places	::	Banjar, Balichowki, Takoli, Bhunter and Kullu
7.2	Distance from unit	::	Banjar 18 Km, Balichowki 15 Km, Takoli 45 Km, Bhunter 50 Km, Kullu 60 Km and Aut 35 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 above mentioned places.
7.5	Impact of seasonality on Market.	::	Mushroom is all weather delicacy and is in high demand throughout the year. However, during summer and marriage ceremonies this demand rises very high.
7.6	Potential buyers of the Product.	::	Potential Market Buyers are Hospitals, Hotels, Hostels, Shops, 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 Mushroom to the Market on Demand Basis and group will also sell it in open Market of Banjar and Balichowki along with local vegetables.
7.9	Marketing strategy of the Product.	::	Initially group will contact all the vegetable retail sellers of Banjar and Balchowki towns, thereafter on increase of production, the retail sellers of Aut, Bhunter and Kullu markets will also be contacted to sell their product on net rate or commission basis.
7.10	Product Branding.	::	"Paldivalley Fresh Mushrooms".
7.11.	Product Slogan	::	"Mushroom Khao Sehat Banao." "Palldi रे मशरूम बड़े प्यारे ; खाई के देखा- लगने नज़ारे"

8. Description of Management among the Members

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

9. SWOT Analyses

SI.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 is there, growing cycles are short, production will be throughout the year. Ready-made Compost bags are available with Horticulture department at Palampur and Solan. For SHG/CIG Financial support, Trainings and exposures will be organized by JICA Forestry Project.
2.	Weakness	::	New Common Interest Group, lack of experience in Mushroom production/cultivation, interrupted power supply in the area.
3.	Opportunity	::	Demand is high and returns are also high.
4.	Threats	::	Internal Conflicts in Group, lack of Transparency and lack of high-risk bearing capacity

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

SI.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, cleanliness is to be maintained by washing hands and feet with soap and dip in formalin solution before entering 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 thermometers, the required temperatures will be maintained with given devices. For value added production, efforts are to be made for dry mushrooms, for making mushroom Pickles, soups and other products. in the later years of production.
2.	Internal Conflicts in Group, Transparency	:	Conflicts to be dealt in the initial stage, to eradicate the cause. Equal exposure to all Group members and equal benefit sharing is needed Give Respect and honor to every member.
3.	Market	:	Market is always fluctuating. Demand and supply are always at variance. So, members are 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.

1st Cycle

S.No	PROJECT COST	Amount in Rs.
A	Capital cost	
A.1	Construction of three tire wooden/Bambooracks fitting	15,000
a	Ceiling Fan (1 No)	2,500
b	Exhaust fans (2)	3,000
c	Room heat/blower	1,500
d	Dry and wet thermometer (1 set)	1,000
e	Weighing electronic machine (1 no)	900
f	Hot plastic ceiling rod (1 no)	800
g	Medium spray pumps (1 no)	1,800
h	Set of sharp knives no (1 set)	75
i	Scissor (2 no)	400
j	Trays/Basket (6 no)	600
k	Crate (4 no).	2,400
l	Water tanks 1000 litre (1 no) including carriage	8,000
m	Water and electricity fitting material & Charges	4,000
n	Miscellaneous expenditure	3,000
	Total Capital Cost	44,975
B.	RECURRING COST of First Cycle (75 days)	
B.1	Cost of Rented Room 1 Hall (mushroom growing Unit) @ Rs. 1,000/Month (3 month) =	3,000
B.2	Formalin	600
B.3	Labour wages 88 day @ Rs 300/day =	26400
B.4	Dhingri Compost Bags 250 no @ Rs 40 per bag and other raw Material including carriage	10,000
B.5	Packaging (packaging material etc.)	3,000
B.6	Transportation	1,000
B.7	Electricity and water usage charges @ Rs 1000 per month	3,000
B.8	Miscellaneous expenditure (stationery, Bill book, receipt etc.)	1,500
	Recurring Cost of one cycle = B1 to B8	48500
	Total Project cost (A+B) = 44,975 + 48500 =	93,475

CostBenefitAnalysisFirstCycle: -

Sr. No	Particular	Unit	Quantity/no	Rate	Amount in (Rs)
A	Depreciation 10% on Capital Cost	Month	3	10%	1,125
B	Recurring Cost for 3 Months				
1.	Cost of Rented room 1 Hall (mushroom growing Unit) @Rs 1000/Month (3 month)	Month	3	1000	3,000
2.	Formalin containing 250ml in each Bottle	No	2	300	600
3.	Labour wages 88 days @ Rs 300/day	Days	88	300	26,400
4.	Dhingri Compost Bags 250 no @ Rs.40 per bag and other raw material including carriage	No	250	40	10,000
5.	Packaging (Packaging material etc.)	Kg	5	600	3,000
6.	Transportation Charges	-	-	-	1,000
7.	Electricity and water usage charges @Rs 1000 per month	Month	3	1,000	3,000
8.	Miscellaneous expenditure (stationery, Bill book, receipt etc.)		L/S	-	1,500
	Total				48,500
9.	Total Production in Kg	Dhingri Compost			400kg 500kg
10.	Sale of Production in Kg	Dhingri 400kg @ Rs 150 Compost 500kg @ 5			60,000 2,500
				Total	62,500
11.	Net profit	62500 - (1125 + 48500 + 1818) (Depreciation + Recurring expenditure + Interest)			11057
12.	Gross benefit	Total Profit + Labour wages + Room Rent 11057 + 26400 + 3000 =			40457
13.	Net amount out of benefit to be reserved for Returned of installment + Interest 14232 + 1818				16050
14.	Amount available for Distribution of benefit among members in 1st cycle = Sale of product - (Principal amount Installment + interest + recurring cost + depreciation + Remaining amount of 2nd and 3rd installment) = 62500 -				(-3175)

(14232+1818+48500+1125=65675)		

CostBenefitAnalysisSecondCycle

Sr. no	Particular	Unit	Quantity/no	Rate	Amount in (Rs)
A	Depreciation 10% on Capital Cost	Month	3	10%	1,125
B	Recurring Cost for 3 Months				
1.	Cost of Rented room 1 Hall (mushroom growing Unit) @ Rs 1000/Month (3 month)	Month	3	1,000	3,000
2.	Formalin containing 250 in each Bottle	No	2 bottles	300	600
3.	Labour wages 88 days @ Rs 300/day	Days	88	300	26400
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	1,500
6.	Transportation Charges	-	-	-	1,000
7.	Electricity and water usage charges @ Rs 1000 per month	Month	3	1,000	3,000
8.	Miscellaneous expenditure (stationery, Bill book, receipt etc.)		L/S	-	1,500
	Total				59,500
9.	Total Production in Kg.	Button Mushroom Compost			500kg 750kg
10.	Sale of Production in Kg.	Button Mushroom 500kg @ Rs 150 Compost 750kg @ Rs 10			75,000 7,500
				Total	82,500
11.	Total Profit	82,500 - (1,125 + 59,500 + 1,387 = 62,012) + Recurring expenditure + Interest			20,488
12.	Gross Profit	Total Profit + Labour wages + Room Rent = 20,488 + (26,400 + 3,000)			49,888

13.	Amount available for Distribution of benefit among members in second cycle = Sale of product – (Principal amount + interest + recurring cost + 10% depreciation) = 82,500 – (14663 + 1387 + 59500 + 1125 = 76675)	5825
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Cost Benefit Analysis Third Cycle

Sr. No	Particular	Unit	Quantity/no	Rate	Amount in (Rs)
A	Depreciation 10% on Capital Cost	Month	3	10%	1,125
B	Recurring Cost for 3 Months				
1.	Cost of Rented room 1 Hall (mushroom growing Unit) @ Rs 1000/Month (3 months)	Month	3	1,000	3,000
2.	Formalin containing 250 in each Bottle	No	2 bottles	300	600
3.	Labour wages 88 days @ Rs 300/day	Days	88	300	26400
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	1,500
6.	Transportation Charges	-	-	-	1,000
7.	Electricity and water usage charges @ Rs 1000 per month	Month	3	1,000	3,000
8.	Miscellaneous expenditure (stationery, Bill book, receipt etc.)		L/S	-	1,500
	Total				59500
9.	Total Production in Kg	Button Mushroom			500kg
		Compost			750kg
10.	Sale of Production in Kg.	Button Mushroom 500kg @ Rs 150			75,000
		Compost 750kg @ Rs 10			7,500
				Total	82,500
11.	Net Profit	82,500 – (1,125 + 59500 + 943 = 61568) + Recurring expenditure + Interest)			20932
12.	Gross benefit	Total Profit + Labour wages + Room Rent = 20932 + (26,400 + 3,000)			50532
13.	Amount available for Distribution of benefit among members in third cycle = Sale of product – (Principal amount + interest + recurring cost + depreciation) = 82500 – (15107 + 943 + 59500 + 1125 = 76675)				5825

CostBenefitAnalysisFourthCycle

Sr. no	Particular	Unit	Quantity/no	Rate	Amount in (Rs)
A	Depreciation 10% on Capital Cost	Month	3	10%	1,125
B	Recurring Cost for 3 Months				
1.	Cost of Rented room 1 Hall (mushroom growing Unit) @Rs 1000/Month (3 month)	Month	3	1,000	3,000
2.	Formalin containing 250 in each Bottle	No	2 bottles	300	600
3.	Labour wages 88 days @ Rs 300/day	Days	88	300	26400
4.	Dhingri Compost Bags 250 no @ Rs. 40 per bag and other raw material including carriage	No	250	40	10,000
5.	Packaging (packaging material etc.)	Kg	5	600	3,000
6.	Transportation Charges	-	-	-	1,000
7.	Electricity and water usage charges @Rs 1000 per month	Month	3	1,000	3,000
8.	Miscellaneous expenditure (stationery, Bill book, receipt etc.)		L/S	-	1,500
	Total				48500
9.	Total Production in Kg	Dhingri Mushroom Compost			400kg 500kg
10.	Sale of Production in Kg	Dhingri 400 kg @ Rs 150 Compost 500 kg @ 5			60,000 2,500
			Total		62,500
11.	Net Profit	62,500 - (1,125 + 48500 + 485 = 50110) (10% Depreciation + Recurring expenditure + Interest)			12390
12.	Gross benefit	Net Profit + Labour wages + Room rent = 12390 + (26400 + 3,000)			41790
13.	Amount available for Distribution of benefit among members in 1st cycle = Sale of product - (Principal amount Installment + interest + recurring cost + depreciation) = 62500 - (15997 + 485 + 48500 + 1125 = 66107)				(-)3607

C.	INCOME	
C.1	Direct income	
	(i) First Cycle Dhingri	(-)3175
	(ii) Second Cycle Button Mashroom	5825
	(iii) Third Cycle Button Mashroom	5825
	(iv) Fourth Cycle Button Mashroom	(-)3607
	Total Direct Income	4868
C.2	Indirect Income	
	Labour wages	
	(i) First Cycle	26400
	(ii) Second Cycle	26400
	(iii) Third Cycle	26400
	(iv) Fourth Cycle	26400
	Total	105600
	Room Rent	
	(i) First Cycle	3,000
	(ii) Second Cycle	3,000
	(iii) Third Cycle	3,000
	(iv) Fourth Cycle	3,000
	Total	12,000
	Total Indirect Income	117600
	Gross Income	122468

12. Summary of Economics

(a) Cost of Production in Four Circle

Sr. No.	Particular	Amount in Rs.
1	Total Recurring Cost	
	(i) First Cycle Dhingri	48500
	(ii) Second Cycle Button Mashroom	59500
	(iii) Third Cycle	

	ButtonMashroom	59500
(iv)	FourthCycle	48500
	Dhingri	216000
	Total	
2	10%Depreciationvalueson CapitalCost(Annually)	4500
3	12%InterestonLoan	4632
	Total	225132

(b) AbstractofProductionCost

Sr.No	Details	Amount(Rs)
1	Recurringcost	216000
2	10%depreciationvalueoncapitalcost	4500
3	12%Interestonloan with all expenditure	4632
	Total	225132

(c) Assessmentofsalevalue

Sr.No	Details	Unit	Amount(Rs)
1	Productioncost(225132/1800)	Kg	125
2	ProfitFixed20%	Kg	25
	Total		150
3.	MarketPrice	Kg	150

13. BenefitCostAnalysis (Yearly)

Sr.No	Particulars	Amount(Rs)
1	10%depreciationoncapitalcost(a)	4500
2	Recurringcost(b)	
2.1	Room Rent	12,000
2.2	Labour	105600
2.3	Costofcompostbag	65,000
2.4	Formalin	2,400
2.5	Packaging(packagingmaterial etc.)	9,000
2.6	TransportationCharges	4,000
2.7	Electricityandwaterusage	12,000
2.8	Miscellaneousexpenditure(stationery,Bill book,Receiptetc.)	6,000
	Total	2,16000
3	TotalProductionofDhingriandButton Mushroom	1,800Kg
4	SalevalueofDhingriandButtonMushroom	2,70,000
5	Salevalueofcompost	20,000
	Total	2,90,000

6	Total Profit = Sale value - (Capital cost 10% depreciation + Recurring cost) = 2,90,000 - (4500 + 216000)	69500
7	Gross Profit = Total profit + Labour wages + Room Rent = 69500 + 105600 + 12,000	187100
8	Distribution of profit among the members of group after four cycle = Total Profit - (Principal amount + Interest + Recurring cost for fifth cycle) = 69500 - (0 + 0 + 48500)	21000

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

From the above it is clear that each member 11 members group will get additional income amounting Rs 1909 plus Rs 9600 as labour Total Rs. 11509 with benefit of 40,825 in the form of the recurring cost of fifth cycle stand invested after completion of four cycles of 75 days.

14. Resources of Funds and Fund Requirement

Sr. No	Detail of Resources	Amount in Rs.
1	Project share on Capital cost of 44,975 (50%)	22,488
2.	Monthly contribution till date	11000
3.	Loan from bank	60000
4	5% interest = Rs. 1930 is to be borne by JICA Project (12% interest = 4632)	1930
	Total	95418

● Rs. one lac will be provided to Common Interest Group as a revolving fund to take the loan from bank.

● 50% of Capital cost will be borne by Project.

15. Computation of Breakeven Point

Breakeven Point = Capital Cost / (Sale/kg - Recurring Cost/Kg) = 44,975 / (150 - 125) = 44,975 / 25 = 1499

After sales of 1799 kg Dhingri and Button mushroom breakeven point can be achieved after three months as 1800 kg production is expected in three months.

16. Loan Repayment Schedule on quarterly basis @ 12% Interest including all expenses.

S.no	Month	Loan Return			Cumulative Loan Return	Balance Loan		
		Principal Amount	Interest	Total		Principal Amount	Interest	Total
1	Month-1	0	0	0	0	60000	600	60600
2	Month-2	0	0	0	0	60600	606	61206
3	Month-3	0	0	0	0	61206	612	61818
4	Month-4	14232	1818	16050	16050	45768	458	46226
5	Month-5	0	0	0	0	46226	462	46688
6	Month-6	0	0	0	0	46688	467	47155
7	Month-7	14663	1387	16050	16050	31105	311	31416
8	Month-8	0	0	0	0	31416	314	31730
9	Month-9	0	0	0	0	31730	317	32047
10	Month-10	15107	943	16050	16050	15997	160	16157
11	Month-11	0	0	0	0	16157	162	16319
12	Month-12	0	0	0	0	16319	163	16482
13	Month-13	15997	485	16482	16482	0	0	0
	Total	59999	4633	64632	64632		4632	

16. Remarks:

The forth coming vision of the Group is to enhance their income by value addition in the form of mushroom Pickles, ready-made 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."

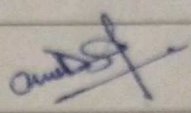
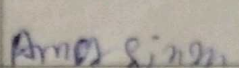
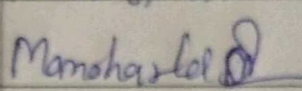
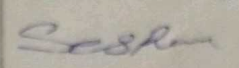
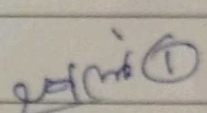
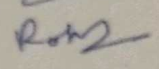
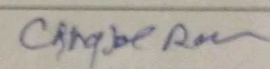
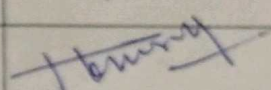
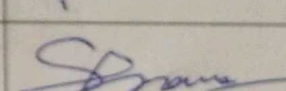
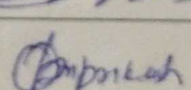
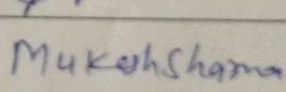
1. Mushrooms may help keep you young.
2. Mushrooms can protect your brain as you age and grow old.
3. Mushrooms may boost your memory.
4. Mushrooms can help your heart health.
5. Mushrooms can assist in strengthening your bones.
6. Mushrooms will help give you energy.
7. Mushrooms help in fighting many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

Delicacy of Mushrooms is special Nish, Tasty, Healthy and affordable.

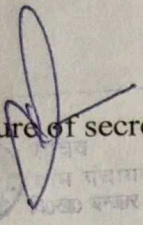
Annexure

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

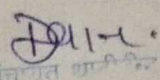
The detail of members is as under

Sr. No.	Name	Name of Father/ Husband	Designation	Category	signature
1.	Sh. Om Dev	Sh. Khub Ram	Pradhan	General	
2	Sh. Amer Chand	Sh. Duni Chand	Secretary	OBC	
3	Sh. Manohar Lal	Sh. Khimi Ram	Cashier	General	
4	Sh. Ses Ram	Sh. Hira Lal	Member	OBC	
5	Sh. Dimpu	Sh. Pune Ram	Member	OBC	
6	Sh. Roshan Lal	Sh. Jhabe Ram	Member	OBC	
7	Sh. Chhabe Ram	Sh. Ved Ram	Member	OBC	
8	Sh. Hans Raj	Sh. Tej Ram	Member	General	
9	Sh. Dola Dutt	Sh. Khimi Ram	Member	General	
10	Sh. Om Prakash	Sh. Mohan Lal	Member	General	
11	Sh. Mukesh Sharma	Sh. Om Prakash	Member	General	

Signature of secretary


प्रधान पंचायत शादीवीड
विठ्ठल नगर पुणे (वि.प्र.)

Signature of Pradhan


प्रधान
ग्राम पंचायत शादीवीड
विठ्ठल नगर पुणे (वि.प्र.)

Signature of VFDS Secretary

Secretary *Begj. Devi*
Basuki Nag
Village Forest Dev Society
GP Thatbir

Signature of VFDS Pradhan

Pradhan *Momohar Lal*
Basuki Nag
Village Forest Dev Society
GP Thatbir

Signature of Fgd

Akhilash

Signature of Block Officer

Ahmed
BLOCK OFFICER
Panihar Forest Block
PANIHAR

Signature of RFO

Jica
R.F.O.
Tirthan
Jica Project

Approved by DMU

JICA
DMU-Seraj