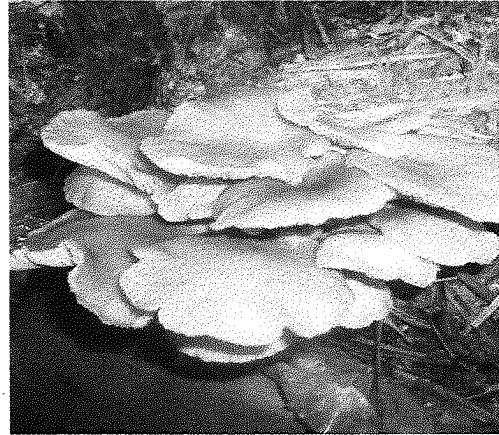
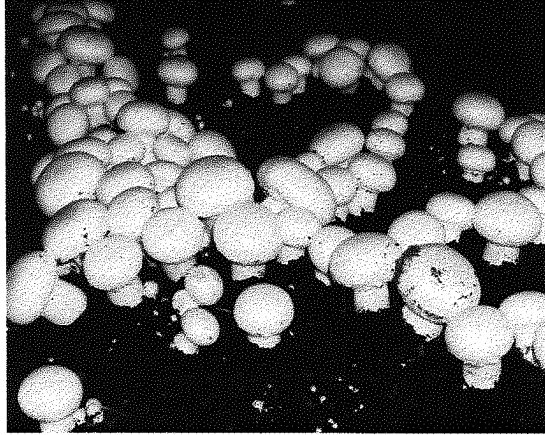




**Income Generation Activity**  
**Business Plan Mushroom Cultivation**  
**2021**



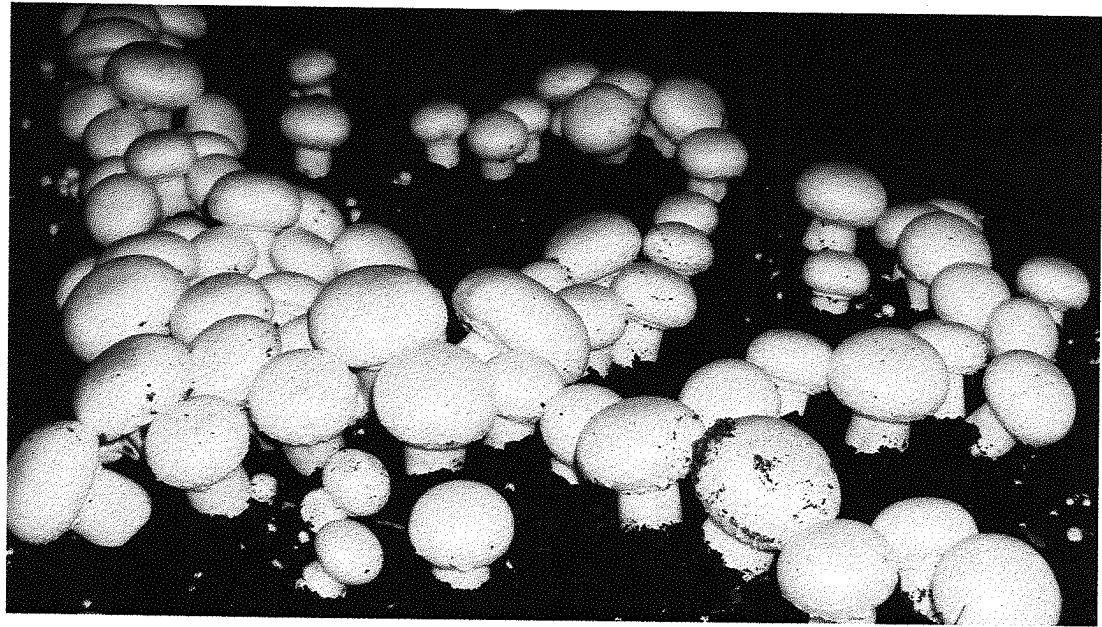
|                     |   |             |
|---------------------|---|-------------|
| <b>SHG/Name</b>     | : | Jagruti SHG |
| <b>VFDSName</b>     | : | Gamohu      |
| <b>FTU/Range</b>    | : | Kangoo      |
| <b>DMU/Division</b> | : | Suket       |
| <b>FCCU/Circle</b>  | : | Mandi       |

**Sponsored by**  
**PIHPFEM&L**

**Prepared by:-**  
**DMU Suket, FTU Kangoo & SHG Jagruti**

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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 is 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 sloopy 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 Gamohu VFDS two SHGs have been formed for implementing livelihood Improvement activities. One of these is, "Jagriti" 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, Principle Scientist & Head Dr. Kavita Sharma & DS Yadav, KVK Mandi at Sunder Nagar. Team consisting of Sh. Vijay Kumar SMS, o/o DMU Sunder Nagar, Sunita Kumari, FTU Co-ordinator Kangoo Range of Suket Forest Division, Mr. Jitender, Forest Guard Jyor Beat prepared the business plan under the constant supervision and guidance of V.P. Pathania, Rtd. DFO.

## **2. Executive summary**

### **Gamohu: VFDS: -**

Gamohu VFDS falls under development block Sunder Nagar, Jyor Beat of Kangoo Range in Sunder Nagar Forest Division.

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

The area is famous for Mango. The famous temple is Bada Dev and Hateshwari Mata Temple.

|                   |           |
|-------------------|-----------|
| No. of Households | 228       |
| BPL Families      | 33=14.48% |
| Total Population  | 786       |
| Total Cattle      | 417       |

## **3. Description of SHG**

The informal Jagriti SHG group was formed in October 2020 under Gamohu VFDS to provide Livelihoods Improvement Support by up gradating skill and capacities. The group consists of poor and marginal farmers.

Jagriti SHG group is mixed group consist of marginal and financial weaker section of the society having less land resources. Though all Group member grow seasonal vegetable etc. 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' they decided to go ahead with Mushroom cultivation which can enhance their income. There are 20 members in this group and their monthly contribution is Rs 50/- per month. The detail of Group members is as under:-

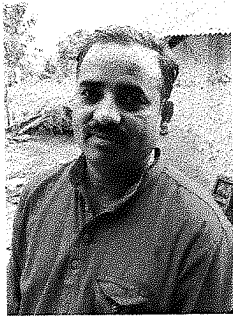
**Detail of SHG Members along with Photos**

| Sr. No. | Name                                 | Designation      | Category | Age | Qualification    | Cont. No.   |
|---------|--------------------------------------|------------------|----------|-----|------------------|-------------|
| 1.      | Geeta Devi w/o Sh. Raj Kumar         | President        | General  | 40  | 9 <sup>th</sup>  | 85807 55411 |
| 2.      | Sanju Ram s/o Sh. Prem Lal           | Member Secretary | General  | 41  | 10 <sup>th</sup> | 8580792501  |
| 3.      | Rachna Devi w/o Sh. Balwant          | Member           | General  | 26  | 12 <sup>th</sup> | 8580841006  |
| 4.      | Pawana Kumari w/o Sh. Roop Singh     | Member           | General  | 39  | 12 <sup>th</sup> | 94183 67514 |
| 5.      | Babu Ram s/o Sh. Dhani Ram           | Member           | General  | 50  | 10 <sup>th</sup> | 96250 26485 |
| 6.      | Hardei w/o Sh. Lal Singh             | Member           | General  | 55  | 0                | 8219145201  |
| 7.      | Meera Devi w/o Sh. Katak Ram         | Member           | General  | 60  | 5 <sup>th</sup>  | 88946 99468 |
| 8.      | Nisha Devi w/o Sh. Kamal Dev         | Member           | General  | 30  | 12 <sup>th</sup> | 85447 60151 |
| 9.      | Urmila Devi w/o Sh. Ashwani Kumar    | Member           | General  | 39  | 8 <sup>th</sup>  | 8580779630  |
| 10.     | Champa Devi w/o Sh. Vijay Kumar      | Member           | General  | 27  | 12 <sup>th</sup> | 94185 77276 |
| 11.     | Sunita Devi w/o Sh. Ramesh Kumar     | Member           | General  | 45  | 10 <sup>th</sup> | 88948 81945 |
| 12.     | Manju Devi w/o Sh. Vijay kumar       | Member           | General  | 23  | 12 <sup>th</sup> | 78074 41156 |
| 13.     | Santi Devi w/o Sh. Roshan Lal        | Member           | General  | 38  | 8 <sup>th</sup>  | 78056 51346 |
| 14.     | Himachali devi w/o Sh. Jagdish Kumar | Member           | General  | 30  | 12 <sup>th</sup> | 88943 26131 |
| 15.     | Narendri Devi w/o Sh. Deep Chand     | Member           | General  | 28  | 5 <sup>th</sup>  | 78763 23426 |
| 16.     | Meena Devi w/o Sh. Roop lal          | Member           | General  | 45  | 5 <sup>th</sup>  | 94593 26422 |
| 17.     | Raj Kumar s/o Sh. Fehu Ram           | Member           | General  | 49  | 12 <sup>th</sup> | 82199 35197 |
| 18.     | Lal Singh S/o Jiyunu Ram             | Member           | General  | 45  | 10 <sup>th</sup> | 82199 35197 |
| 19.     | Mast Ram s/o Sh. Lal Singh           | Member           | General  | 39  | 10 <sup>th</sup> | 8894554360  |
| 20.     | Nisha Devi w/o Sh. Naresh Kumar      | Member           | General  | 30  | 12 <sup>th</sup> | 8894835771  |

Photograph of Self Help Group members



Geeta Devi  
(Pradhan)



Sanju Ram  
(Secretary)



Rachna Devi  
(Member)



Pawana Kumari  
(Member)



Hardei  
(Member)



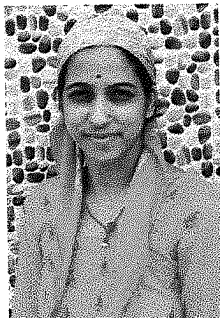
Meera Devi  
(Member)



Nisha Devi  
(Member)



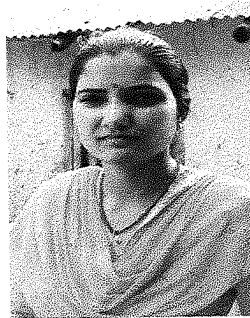
Urmila Devi  
(Member)



Champa Devi  
(Member)



Sunita Devi  
(Member)



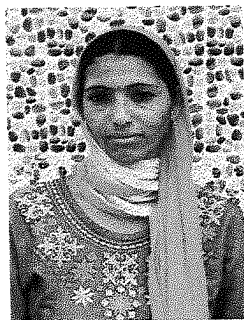
Manju Devi  
(Member)



Himachali Devi  
(Member)



Narendri Devi  
(Member)



Meena Devi  
(Member)



Raj Kumar  
(Member)



Nisha Devi  
(Member)

### 3.1 Jagriti Self Help Group Gamohu

|      |                            |    |                                       |
|------|----------------------------|----|---------------------------------------|
| 2.1. | Name of SHG                | :: | Jagriti                               |
| 2.2  | SHG/CIG MIS CodeNo         | :: | -                                     |
| 2.3  | VFDS                       | :: | Gamohu                                |
| 2.4  | Range                      | :: | Kangoo                                |
| 2.5  | Division                   | :: | Suket                                 |
| 2.6  | Village                    | :: | Gamohu                                |
| 2.7  | Block                      | :: | Sunder Nagar                          |
| 2.8  | District                   | :: | Mandi                                 |
| 2.9  | Total no of members in SHG | :: | 19                                    |
| 2.10 | Date of formation          | :: | October 2019                          |
| 2.11 | Bank Name and details      | :: | PNB Jarol<br>IFSC Code<br>PUNB0203200 |
| 2.12 | Bank A/C No.               | :: | 2032000100111922                      |
| 2.13 | SHG/monthly saving         | :: | Rs. 1000/-Month                       |
| 2.14 | Total Saving               | :: | 6000/-                                |
| 2.15 | Total inter-loaning        | :: | Yes                                   |
| 2.16 | Cash Credit limit          | :: | -                                     |
| 2.17 | Repayment status           |    | Quarterly Bases                       |

### 4. Geographical detail of the Village

|     |   |   |   |
|-----|---|---|---|
| 3.1 | Distant from District HQ                                      | : | 16 km   |
| 3.2 | Distant from Main Road  | : | 6 Km (But from link road 100 to 200 mts)<br>approximately   |
| 3.3 | Name of Local Market and distant                              | : | Sunder nagar, 16kms, Mandi 40 kms app.  |
| 3.4 | Name of main Cities and distant                               | : | Sunder nagar, 16kms, Mandi 40 kms app.  |
| 3.5 | Name of the main cities where Products will be sold/ marketed | : | Sundernagar, Jarol  |
| 3.6 | Status of backward and forward linkages                       | : | Backward linkages Training, (KVK)compost<br>bags span added (Horticulture dept.) and<br>Forward linkages Markets exits suppliers etc. |

## 5. 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 vegetable 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 vegetable crops in 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.  |

## 6. 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 other 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.



## 7. 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).<br/> 2<sup>nd</sup>crop of Button Mushroom (Sept to November = 75days)<br/> 3<sup>rd</sup> crop of Button Mushroom, (Nov to January =75 days)<br/> 4<sup>th</sup> crop of Dhingri Mushroom ( February to April= 75 days)</p>  |
| 6.2 | Manpower required (No)     | :: | <p>Initially whole group will work together to install/ construct theracks, clean the room andcarry compost bags from the road toproduction sites. Thereafter for first 30 days2 persons for 1hours (1/2 an Hour Morning and ½ an hour evening) on rotation bases will work for cleaning, moistening, temperature regulation etc.</p> <p>For next 31 to 75 days 4-person 3hours 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 2hours 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 <b>24200/-</b></p> |
| 6.3 | Source of raw material     | :: | <p>Horticulture Department, Palampur and Solan district of Himachal Pradesh. Generally, all materials are available in Sundernagar KVK.</p>  |
| 6.4 | Source of other Resources. | :: | <p>-do-</p>  |

|     |   |    |   |
|-----|---|----|---|
| 6.5 | (i)Quantity required for Button Mushroom (75days)<br>(ii)Quantity required for one cycle of Dhingri i.e75days | :: | 250 Compost Spawn added Bags, Formalin, 200ml, Bavistin 100 g, packing material (polythene sleeves) 3kg.<br><br>For Dhingri<br>Spawn: 25 kg, Wheat or other crop straw: 500 kg, Formaline: 2 liter, Bavistin: 100 g, Polysheet: 1<br>300 transparent Polythene Bags for Dhingri compost, Polythene sleeves 5 kg (3kg for fresh and 2 kg for replacement of torn bags) |
| 6.6 | Expected production in 75days   | :: | <b>Dhingri:-</b> The average production of Dhingri from one bag of compost is around 1.6 kg.<br>For250bagstheyieldwillbe <b>400 kg</b> of Dhingri.<br><br><b>ButtonMushrooms:-</b><br>The average production of Mushroom from one Bag is 2.0 kg /1Bag = 2.0 kg<br>250 Bagsx 2.0kg.= <b>500kg.</b>   |

### 8. DescriptionofMarketing /Sale

|     |                                     |    |   |
|-----|-------------------------------------|----|---|
| 7.1 | PotentialMarketPlaces               | :: | Jarol, Mandi, Sundernagar.  |
| 7.2 | Distance from unit                  | :: | Jarol 6 kms Sundernagar 16 kms and mandi 40 kms   |
| 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 ceremonialoccasions 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 J a r o l and Sundernagar 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.                   | :: | “Gamohu Fresh Mushrooms”.   |
| 7.11. | Product Slogan                      | :: | “ <b>Mushroom Khao Sehat Banao.</b> ”<br>“मशरूम बड़े प्यारे , खाई के देखा लगने नज़ारे”  |

### 9. 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.

### 10. SWOT Analysis

| 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.<br>Readymade Compost bag are available with Horticulture department at Palampur and Solan.<br>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  |

### 11. 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 | : | 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. |

|    |   |   |  |
|----|---|---|--|
|    | crop.<br>2. Temperature maintenance and regulations<br>3. Market saturation | : | Only 2 to 3 persons will enter the room with full kit (cap, Gloves, apron etc.).<br>Regular sprays to avoid fungal attack.<br>With the help of thermo meters, the required temperatures will be maintained with given devices.<br>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.<br>Equal exposure to all Group members, equal benefit sharing needed<br>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<br>Demand and members' experience.   |

## 12. 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.</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)=<br>Rs 24200  | 24200        |
| B.4 | Dhingri Compost Bags 250 no @Rs 40 per bag and other raw<br>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 | Amount in (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<br>(mushroom growing Unit)<br>@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)<br>= Rs. 24200   | Days  | 88          | 275  | 24200            |
| 4.     | Dhingri Compost Bags 250 no @ Rs. 40<br>per bag and other raw material including<br>carriage | No  | 250         | 40   | 10000            |
| 5.     | Packaging (Packaging material etc.)  | Kg  | 5           | 600  | 3000             |
| 6.     | Transportation Charges   | -   | -           | -    | 1000             |
| 7.     | Electricity and water usage charges<br>@Rs 1000 per month                                    | Month   | 3           | 1000 | 3000             |
| 8.     | Miscellaneous expenditure ( stationery,<br>Bill book, receipt etc.)                          |   | L/S         | -    | 1500             |
|        | <b>Total</b>   |   |             |      | <b>46300</b>     |
| 9.     | Total Production<br>in Kg.   | Dhingri<br>Compost                            |             |      | 400 kg<br>500 kg |
| 10.    | Sale of Production<br>in Kg.   | Dhingri 400 kg @ Rs 150<br>Compost 500 kg @ 5 |             |      | 60000<br>2500    |

|     |  |   |               |
|-----|--|---|---------------|
|     |  | <b>Total</b>  | <b>62500</b>  |
| 11. | Total Benefit  | 62500-(1125+46300)  | 15075         |
| 12. | Grossprofit  | Total Profit + Labour wages+ Room Rent<br>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) 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<br>Compost |             |      | <b>500kg<br/>750kg</b> |

|     |   |  |              |
|-----|---|--|--------------|
| 10. | <b>Sale of Production in Kg.</b>  | <b>500 kg @ Rs150</b>  | 75000        |
|     |   | <b>Compost 750 kg @ Rs10</b>   | 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><br><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><br><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<br>Compost                                       |             |      | 500kg<br>750kg |
| 9.     | <b>Sale of Production in Kg.</b>  | 500 kg @ Rs 150<br>Compost 750 kg @ Rs 10                        |             |      | 75000<br>7500  |
|        |   | <b>Total</b>   |             |      | <b>82500</b>   |
| 10.    | <b>Total Profit</b>   | 82500 - (1125 + 55800)   |             |      | 25575          |
| 11.    | <b>Gross profit</b>   | Total Profit + Labour wages+ Room rent<br>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><br><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 | Amountin (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<br>Compost  |             |      | 400kg<br>500kg |
| 10.    | Sale of Production in Kg.  | Dhingri 400 kg @ Rs 150<br>Compost 500 kg @ 5                                  |             |      | 60000<br>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><br><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><br><b>=43775-(0+0+44800)</b> |  |             |      | <b>(-)1025</b> |

|     |                      |  |
|-----|----------------------|--|
| C.  | <b>INCOME</b>        |  |
| C.1 | <b>Direct income</b> |  |



|            |  |               |
|------------|--|---------------|
|            | (i) <b>FirstCycle</b><br>Dhingri           | (-18294)      |
|            | (ii) <b>SecondCycle</b><br>Button Mashroom | 5200          |
|            | (iii) <b>ThirdCycle</b><br>Button Mashroom | 6806          |
|            | (iv) <b>FourthCycle</b><br>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> |

### 13. Summary of Economics

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

| Sr. No. | Particular   | Amount in Rs. |
|---------|--|---------------|
| 1       | Total Recurring Cost                                   |               |
|         | (i) <b>FirstCycle</b><br>Dhingri                       | 46300         |
|         | (ii) <b>Second Cycle</b><br>Button Mashroom            | 57300         |
|         | (iii) <b>Third Cycle</b><br>Button Mashroom            | 55800         |
|         | (iv) <b>Fourth Cycle</b><br>Dhingri                    | 44800         |
|         | <b>Total</b>   | <b>204200</b> |
| 2       | 10% Depreciation values on Capital Cost<br>(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                         | <b>204200</b> |
| 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> |
| <b>3.</b> | <b>Market Price</b>          | <b>Kg</b> | <b>150</b> |

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

| Sr.No    | Particulars   | Amount(Rs)    |
|----------|---|---------------|
| <b>1</b> | <b>10% depreciation on capital cost (a)</b>   | <b>4498</b>   |
| <b>2</b> | <b>Recurring cost (b)</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)<br>=290000-(44975+204200)   | 40825         |
| 7        | Gross Profit= Total profit + Labour wages + Room rent<br>=40825+96800+12000   | 149625        |
| 8        | Distribution of profit among the members of group after four cycle = Total Profit - (Principal amount +Interest+ Recurring cost | -3975         |

|  |  |  |
|--|--|--|
|  | for fifth cycle)<br>=40825-(0+0+44800) |  |
|--|--|--|

**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.

### 15. 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               | 6000          |
| 3.     | Loan from bank                               | 57000         |
|        | <b>Total</b>                                 | <b>85488</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.

### 16. 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.

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

| S.no | Month   | LoanReturn              |          |       | Cumulative<br>Loan<br>Return<br>6 | LoanRemains             |          |       |
|------|---------|-------------------------|----------|-------|-----------------------------------|-------------------------|----------|-------|
|      |         | Princip<br>al<br>Amount | Interest | Total |                                   | Princip<br>al<br>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     | 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> |       |

**18. 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."

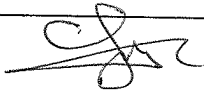

1. Mushrooms may help keep you young.
2. Mushrooms can protect your brain as you age.
3. Mushrooms may boost your memory.
4. Mushrooms can help your heart health.
5. Mushrooms can assist in strengthening your bones.
6. Mushrooms will help give you energy
7. Mushrooms helps infighting many diseases specially 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.      | Geeta Devi w/o Sh. Raj Kumar                                  | President        | General  | गीता देवी   |
| 2.      | Sanju Ram s/o Sh. Prem Lal                                    | Member Secretary | General  |  |
| 3.      | Rachna Devi w/o Sh. Balwant                                   | Member           | General  | Rachna Devi   |
| 4.      | Pawana Devi w/o Sh. Roop Singh<br>Kumar                       | Member           | General  | Pawana Kumari   |
| 5.      | Babu Ram s/o Sh. Dhani Ram                                    | Member           | General  | Babu Ram  |
| 6.      | Hardei w/o Sh. Lal Singh                                      | Member           | General  |  |
| 7.      | Meera Devi w/o Sh. Katak Ram                                  | Member           | General  | मीरा देवी   |
| 8.      | Nisha Devi w/o Sh. Kamal Dev                                  | Member           | General  | Nisha Devi  |
| 9.      | Urmila Devi w/o Sh. Ashwani Kumar                             | Member           | General  | उर्मिला देवी  |
| 10.     | Champa Devi w/o Sh. Vijay Kumar                               | Member           | General  | Champa Devi   |
| 11.     | Sunita Devi w/o Sh. Ramesh Kumar                              | Member           | General  | सुनिता देवी   |
| 12.     | Manju Devi w/o Sh. Vijay kumar                                | Member           | General  | manju Kumari  |
| 13.     | Santi Devi w/o Sh. Roshan Lal                                 | Member           | General  | सन्ती देवी  |
| 14.     | Himachali Devi w/o Sh. Jagdish Kumar                          | Member           | General  | हिमाचली देवी  |
| 15.     | Narendi Devi w/o Sh. Deep Chand                               | Member           | General  | नरेंदी देवी   |
| 16.     | Champa Devi w/o Sh. Amar Singh<br>Meena Devi w/o Sh. Roop Lal | Member           | General  | चम्पा देवी  |
| 17.     | Raj Kumar s/o Sh. Fehu Ram                                    | Member           | General  | राज   |
| 18.     | Lal Singh s/o Sh. Jiyunu Ram                                  | Member           | General  |   |

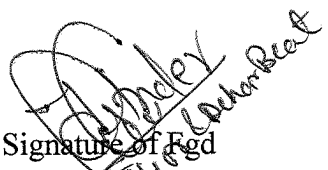
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|-----|---------------------------------|--------|-----|----------|
| 19. | Mast Ram s/o Sh. Lal Singh      | Member | Gen | mast Ram |
| 20. | Nisha Devi w/o Sh. Naresh Kumar | Member |     | Nisha    |

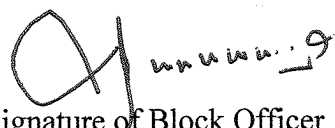
  
Signature of secretary  
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जयपुर जिला विकास अधिकारी  
जयपुर जिला विकास अधिकारी  
जयपुर जिला विकास अधिकारी

गीता देवी  
Signature of Pradhan  
जयपुर जिला विकास अधिकारी  
जयपुर जिला विकास अधिकारी  
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जयपुर जिला विकास अधिकारी

  
Signature of VFDS Secretary  
जयपुर जिला विकास अधिकारी  
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जयपुर जिला विकास अधिकारी


अशोक लाल  
Signature of VFDS Pradhan  
जयपुर जिला विकास अधिकारी  
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Signature of Fcd  
जयपुर जिला विकास अधिकारी  
जयपुर जिला विकास अधिकारी  
जयपुर जिला विकास अधिकारी  
जयपुर जिला विकास अधिकारी

  
Signature of Block Officer  
जयपुर जिला विकास अधिकारी  
जयपुर जिला विकास अधिकारी  
जयपुर जिला विकास अधिकारी  
जयपुर जिला विकास अधिकारी

  
Signature of RFO  
Kangoo Forest Range  
जयपुर जिला विकास अधिकारी  
जयपुर जिला विकास अधिकारी  
जयपुर जिला विकास अधिकारी  
जयपुर जिला विकास अधिकारी

Approved by DMU

  
Divisional Forest Officer  
Suket Forest Division  
Sunder Nagar (H.P.)-174401