

**Certificate**

It is certified that the Sub-Project Development Plan for Lift Irrigation Scheme Dakhol has been rectified and finalized after the necessary compliance to the observations/ comments raised by PMC Experts and same has been updated in the google sheet. The compliances to observations/comments raised by PMC Experts are being enclosed as per Annexure -I.

  
Agriculture Officer/  
Agriculture Extension Officer  
(Sub-Project Incharge)

  
Agriculture Expert

  
Agriculture Development Officer

  
Block Project Manager  
HPCDP (Phase-II) -JICA-ODA Hamirpur  
Hamirpur Distt. Hamirpur (H.P.)

S.N.	Section/Table/Paragraph	Observations Raised	Compliance	Remarks
1.	<b>Section 1</b> Concept of Community organization for effective project planning and implementation <b>Paragraph 2</b> Farmers Groups	“These farmers may be identified & grouped on basis of local situation irrespective of their resources and inclination towards the farming as an enterprise”. <b>Meaning not clear?</b>	This line has been rectified as “These farmers may be identified & grouped on basis of local situation in respect of their resources and inclination towards the farming as an enterprise”.	
2.	<b>Section 1</b> Concept of Community organization for effective project planning and implementation Paragraph	<b>Valued</b> -Consider deleting	The word “ Valued” has been deleted from the paragraph.	
	<b>II</b> Second is the Conservative/Subsistence Farmers Group.	<b>Not so positive</b> - Consider replacing with hesitant.	Not so positive has been replaced by the word “Hesitant”.	
3.	<b>Section 1 Paragraph 5</b> Youth	For bottom to up farmers <b>Meaning not clear?</b>	Deleted from the paragraph.	
4.	<b>Section 1</b> General Profile of KVA	“The sub-project comprises of 11.38 Ha. CCA and farmers from only one village i.e. Dakohal have ownership of said land for bottom to up farmers.” <b>Not relevant under KVA heading.</b>	This line has been deleted from the Paragraph.	
5.	<b>Section 3</b> <b>Table 21:</b> Abstract of Category-wise Area under Crops and their Production (based on household survey Year 2022-23)	Rabi and kharif season <b>Vegetable yield seems too Less.</b>	Production has been increased.	
6.	<b>Section 3</b> <b>Table 22:</b>	Cauliflower and Potato <b>Production seems too less</b>	Production has been increased.	
7.	<b>Section 3</b> <b>3.2 Status of Crop Yield</b> (Existing and Target as per MoD)	<b>(IPM)</b> Its required in cereals...?	“IPM” has been deleted from the paragraph.	
8.	<b>Section 3</b> <b>Table No: 23</b> Crop detail Existing and Target as per MoD	Targeted Yield (as per MoD) Pre-project yield (As per HHs) of Cauliflower and Potato : <b>Check the figure</b>	Yield has been rectified.	

9.	<b>Section 3</b>  Table No: 23 Crop detail Existing and Target as per MoD	Sr. No. 3, 4 and 6-Why mentioning, if not under cultivation	These rows has been deleted from the Table No. 23.	
10.	<b>Section 3</b>  <b>3.4 Farm Business Evaluation of the Sub Project Before Crop Diversification</b>  <b>Table: 25</b> Pre-Project Cropping Pattern and value of produce (Kharif and Rabi season): Kharif Season	Cauliflower Production, Productivity -check the figure  Value at base year: seems too less	Production, productivity and Value at Base year has been rectified.	
11.	<b>Section 3</b>  <b>3.4 Farm Business Evaluation of the Sub Project Before Crop Diversification</b>  <b>Table: 25</b> Pre-Project Cropping Pattern and value of produce (Kharif and Rabi season): Rabi Season	Potato Production & Productivity: check the figures too less  Value at base year of potato: very high check	Production, productivity and Value at Base year has been rectified.	
12.	<b>Section 3</b>  <b>Table No 27:</b> Income of Sub Project before project per ha (as per baseline survey)	Amount (in Rs) 785746/- check the figures as commented above	This has been rectified.	
13.	<b>Section 3</b>  <b>3.6 Timeline of Agriculture Related Events of the Village</b>	Farmers used to purchase seeds and other fertilizers from Private and Govt retailers District Hamirpur - meaning not clear, mention year also  With tractor- mention year, if possible	Years has been mentioned in the timeline of Agriculture Related Events of the Village.	
14.	<b>Section 4A</b>  <b>Table:31</b> Detail of Farmer for Stage I	WST- Farmer already constructed WST.	WST has been deleted from the infrastructure needed by the farmer.	

15.	<b>Section 4A</b> <b>Table: 32</b> Crop Diversification Plan/Annual Agricultural Development Plan and Progress After Completion of Construction in Rabi Season	Vegetable Unit Yield: <b>Check with previous tables</b> Production and Productivity of leafy vegetables and fodder: <b>No effect on yield after irrigation...? Check</b>	Table 32 has been matched with Table No. 21, 22 and 23 and rectified accordingly.	
16.	<b>Section 4A</b> <b>Table: 33</b> Crop Diversification Plan/Annual Agricultural Development Plan and Progress After Completion of Construction in Kharif Season	Existing condition ( 2022-23) Unit yield Vegetables- <b>Too less ..check and compare with earlier tables</b> Maize: <b>Yield constant in all the years after project, check</b> Fodder: <b>Yield more in pre project and constant after project, check</b> 3 <sup>rd</sup> year (2025-26) 6 <sup>th</sup> season Unit Yield Tomato: <b>Yield is more in pre project, check</b>  Oil seeds – <b>Yield at same level in all the years after project</b>	Productivity has been rectified.	
17.	<b>Section 4A</b> <b>Table 37:</b> Proposed Value Chain and Market Development Plan of Sub Project after CDP Implementation	If proposed value chain, <b>Complete the table</b>	Table has been completed.	
18.	<b>Section 4B</b> Crop detail Existing and Target as per MoD	Unit missing and check the yield levels with other tables.	Yield has been checked and rectified.	

  
 Agriculture Expert  
 ¼ RPMU Hamirpur  
 JICA-ODA Hamirpur  
 Hamirpur (H.P.)

## DEPARTMENT OF AGRICULTURE HIMACHAL PRADESH



### SUB PROJECT DEVELOPMENT PLAN (SDP)

#### LIS DAKHOL



Block Project Management Unit: Hamirpur  
District Project Management Unit: Hamirpur

### HIMACHAL PRADESH CROP DIVERSIFICATION PROMOTION PROJECT (Phase-II), HAMIRPUR (H.P)

## **FOREWORD**

SUB PROJECT DEVELOPMENT PLAN in Himachal Pradesh Crop Diversification Promotion Project PHASE II is a document which is used to plan out the various needs and priorities of a farming community in selected sites. It is a dynamic document and strives to address the requirements of changing times. It has been planned to enable and motivate farmers to effectively resort to crop diversification/crop intensification, identify their needs and find means to fulfill them in a time bound manner. FAO guidelines have been followed in conformity with standard PRA techniques through process based planning to prepare this document. Livelihood Plan and Service sector skill development are new activities which offer alternative income to farmers. It also prepares grounds for Homestead agriculture, including ways to augment issues on Gender Mainstreaming and to start group based activity which pours in more money in to their pockets. On one hand, it plans for the optimum resource use while simultaneously eliciting the roles and responsibilities of a KVA/ farmers interest group/SHGs in its sustainable management there by fulfilling the condition of participatory irrigation management. Sub project development plan also registers the achievements, the gaps and the prospects of addressing new domains within the available and restricted resources. The resources and opportunities are few, the wants are many and challenges are high. It addresses the progress made so far, identifies the gaps in implementation of Phase I and explores the new possibilities including training needs. It will help in understanding and achieving the project indicators as all plans are GPS tagged. Community Based Social Monitoring instills confidence and empowers farming community. The innovations in the SDP formats are planned to address the issues and concerns of the farmer interest groups by the community, and for the community even beyond project cycle.

Dr. SUNIL CHAUHAN  
PROJECT DIRECTOR

## **ACKNOWLEDGEMENT**

The Department of Agriculture Himachal Pradesh is implementing Himachal Pradesh Crop Diversification Promotion Project Phase II, a JICA funded project through H.P. Agriculture Development Society (a Registered Body under H.P. Cooperative Societies Registration Act, 2006). The project covers all Districts of Himachal Pradesh. There are 306 Sub project sites covering 26000 households which are targeted to be transformed to provide micro irrigation facilities and sustain them through Participatory Irrigation Management. The farming community is to be motivated, regrouped and trained to adopt crop diversification and intensification. Besides this various livelihood programs for resource poor have been designed including group production and marketing.

SUB PROJECT DEVELOPMENT PLAN has been formulated in accordance with the Project Document, enabling the KVS members to make plans in their cropping pattern according to the changing needs and priorities for sustainable development. This document will also help the communities to review the progress made against the plan and to put-forth focused efforts in accomplishing the work within stipulated time line. Working Group was constituted for facilitating preparation of SDP and questionnaire was designed by the committee for collection of data on (a) Demographic status, (b) Socio-economic conditions of the villagers, (c) Resources available in the village etc. The questionnaire was designed to facilitate (1) Assessment of current land use pattern and formulation of proposed land use pattern, (2) Participatory resource-based land-use planning, (3) Identification of livelihood needs. Participatory Rural Appraisal (PRA) exercise including group discussion, experience sharing, one to one discussion with the villagers etc. was conducted to promote people's participation in project planning, implementation and monitoring. Information on various issues concerning crop diversification was explained to the villagers. Preparation of existing land use map, seasonal Calendar (Cropping season) and wealth ranking exercise were completed during PRA activities. The principle of participatory land use planning was adopted with available technical inputs and in consultation with all the stakeholders. House-hold survey was carried out in the village covering all KVA families. Transect walk was done by the Working Group along-with some local farmers. During transect walk, inputs were obtained from the field for deciding upon the suitability of the proposed land-use. GPS reading of the prominent sites/spots visited by the Working group were also recorded. Awareness programmes, meetings and work-shops were conducted.

Our sincere gratitude is to Dr. P.L. Sharma PMC Expert, Dr. Anoop Katna, District Project Manager, Hamirpur, Dr. Yashu Lata, SMS, DPMU Hamirpur and Mrs. Tamanna Arya, Agriculture Expert, DPMU Hamirpur for their valuable inputs in drafting this document. It gives me immense pleasure to express our sincere gratitude to Dr. Sunil Chauhan, Project Director, for his constant support and guidance in finalizing the document.

**Jeet Ram**  
**Block Project Manager**  
**HPCDP (Phase II), JICA-ODA**  
**Hamirpur, Distt. Hamirpur**

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**SUB PROJECT  
INFORMATION**

## **SECTION I**

## **Sub Project Development Plan**

Period of SDP: *Four years (2023 to 2027)*

Date of approval of SDP by KVA: 29.01.2024

Date of approval of SDP by DPMU: 25.11.2023

### **Key team members who facilitated the Preparation of SDP :-**

<b>Sr.No</b>	<b>Name of Team Members</b>	<b>Remarks</b>
<b>1</b>	<b>Dr. Yashu Lata</b>	Block Project Manager Hamirpur, Department of Agriculture.
<b>2</b>	<b>Mr. Vivek Sharma</b>	Agriculture Development Officer
<b>3</b>	<b>Ms Nitika Soni</b>	Agriculture Expert
<b>4</b>	<b>Ms Jayoti</b>	Agriculture Expert
<b>5</b>	<b>Mrs. Kiran Kumari</b>	Agriculture Expert
<b>6</b>	<b>Ms Bandna</b>	Junior Engineer
<b>7</b>	<b>Mr Navneet</b>	Supervisor

# **Concept of Community organization for effective project planning and implementation**

Project need to be designed in a way that its interventions are directed towards the identified **FOCUSED GROUPS**.

Constituent's beneficiaries in a KVA shall be the pool to identify various focused groups. **KVA (Krishak Vikas Association)** is the general group of beneficiaries who may have varied resources, needs and inclination towards crop diversification. Out of these diverse beneficiaries, the project must segregate them into small focused groups in line with the specified project interventions. As a Project team we should spearhead the support to different focused groups below the line of advance farmers groups in a way that they rise to become an advanced farmer for higher and sustainable income from different farm enterprises.

**I. MC (Management Committee)** is the first focused group, they are to be skilled on Project Management for the effective and efficient mobilization of resources. They are to be developed as good leader & manager.

## **II. Farmers Groups:**

### **▪ First is the Advance Farmer Groups.**

They are the individuals/ farmers who consider the project intervention as an opportunity to build their source of income through advanced farming as an enterprise.

These farmers may be identified & grouped on basis of local situation in respect of their resources and inclination towards the farming as an enterprise.

They have high interests towards any innovation and try to improve their skills and earn more profit.

### **▪ Second is the Conservative/Subsistence Farmers Group.**

They are the farmers, who do not consider farming as an opportunity to build their livelihood despite of land ownership.

These farmers are basically hesitant towards crop diversification as well as cultivation of commercial crops therefore they need to be motivated towards crop diversification by showing the result at the advanced farmers' fields, but need to be the part of planning and evaluation input from the beginning to the possible extent.

### **▪ Third is the Intermediate Farmer Group.**

They are the farmers who are intermediate to category 1 and category 2 mentioned above. They are the potential beneficiaries who adopt crop diversification immediately after observing the good result at the fields of advanced farmers.

These farmers are interested in getting more production and more profit. Maximum efforts should be made to upgrade farmers from intermediate to advanced farmer category.

### **III. Vulnerable Farmers**

In the MoD, it has been provided that 10% of farming families of the project area may fall into the category of vulnerable farmers. In MoD, it is also mentioned that not all farmers are target of livelihood activities but they may be from any of the above specified categories along with BPL families, handicapped, female headed families, landless farmers (if any). Special emphasis will be given in identifying such families and minimum number be maintained in a sub project and realistic families to be included.

### **IV. SHG – Self Help Groups**

Self-Help Group is intermediary committee usually composed of 10 to 20 members. SHGs are informal association of people who come together to find ways to improve their living standards. It can also be defined as self-governed peer controlled informal group of people with similar socio economic back ground and having the desire to collectively perform common purpose. Member in group may also make small regular saving contributions over a period and funds collected can be lend to members on minimum interest rate, SHG group consist of woman headed families, landless farmers and actively working group.

### **V. Youth**

The involvement of youth in agriculture is vital as they are more energetic, productive and receptive to new ideas and are more in touch with advance technology.

Programme for next generation has potential to involve the youth both undergoing education, as well as those looking for career. The proposed programme not only motivates youth to go for education in agriculture but also to take up capacity building and entrepreneurship avenues in this sector.

Farmers of above mention categories will be provided with different cultivation skills trainings and demonstrations in the project, as project goal is to improve farmer's income by diversification of farm crops and adoption of new enterprises. To achieve project goal, first step is to provide technical support on crop cultivation and livelihood activities along with infrastructure development in the sub project.

Second, support on establishment and capacity development of FPO's. FPO's will be formed and run by advanced farmers of sub project.

Third and final step mandis and private sector for agribusiness will be supported to activate farmer's agriculture business. Along with this, project also provides provision of Farm Machinery for optimal utilisation of resources and economy in time. It has also been observed that in agriculture, involvement of female workers is more in comparison with male workers; therefore, no gender discrimination will be done for providing benefits of farm mechanization. Selection of farmers will be done by KVA as per the approved list of various groups of farmers and farmers will be rationalized by the project on the basis of performance of different categories of farmers at particular sub project.

## General Profile of KVA:

After series of meetings and sensitization in the village, the beneficiary farmers were organized into **Krishak Vikas Association** and Management Committee members were elected collectively by all beneficiary of sub project.

The KVA have also framed its By- laws, rules and regulations and submitted Memorandum of Association to SDM Hamirpur for registration under H.P Society Registration Act 2006.

### (a) Introduction of Krishak Vikas Association (KVA)

- Name of KVA:** Krishak Vikas Association Dakhol, Gram Panchayat- Nalti, Tehsil and District- Hamirpur.
- Date of KVA Formation:** 03.01.2022
- Date of KVA Registration:** 21.02.2022
- KVA Registration No:** HPCD-8597
- No. of MC Members:** 7

### (b) Detail of Management Committee (KVA)

Date of Formation: 03.01.2022

Tenure of Management Committee (3years)



Sr.N o.	Name of Farmer	Name of Father/ Husband	HPCDP Family Reg. No.	Designation	Address	Photographs
1	Smt Shobha Sharma	W/o Ajay Sharma	P290-HMR- Dakhol-18	President	Vill. Dakhol P.O. Nalti, Tehsil and District Hamirpur	
2	Sh Shambhu Ram	S/o Munshi Ram	P290-HMR- Dakhol-9	Vice- President	Vill. Dakhol P.O. Nalti, Tehsil and District Hamirpur	
3	Smt Ritu Sharma	W/o Manohar Lal	P290-HMR- Dakhol -33	Secretary	Vill. Dakhol P.O. Nalti, Tehsil and District Hamirpur	

4	Sh Rattan Chand	S/o Brahm Dass	P290-HMR-Dakhol -10	Cashier	Vill. Dakhol P.O. Nalti, Tehsil and District Hamirpur	
5	Sh Amarnath	S/o Munshi Ram	P290-HMR-Dakhol -7	Member	Vill. Dakhol P.O. Nalti, Tehsil and District Hamirpur	
6	Sh Dev Raj	S/o Prabhu Ram	P290-HMR-Dakhol -30	Member	Vill. Dakhol P.O. Nalti, Tehsil and District Hamirpur	
7	Smt Shakuntla Devi	W/o Raghunath Sharma	P290-HMR-Dakhol -11	Member	Vill. Dakhol P.O. Nalti, Tehsil and District Hamirpur	

### **Willingness of Community:**

The village community approached BPMU Hamirpur and requested for creation of irrigation infrastructure in the village from perennial water source i.e. Kunah Khad. The BPMU Engineering and Extension staff made preparatory visits to the sites and verified the source of irrigation water, CCA, measured the water discharge and checked the willingness of community for participation. Meetings and Awareness camps were organized for the village community and explained in detail the various project activities to be implemented under HPCDP Phase II. The community gave undertaking for post project operation and maintenance of irrigation facilities and agreed for crop diversification and other livelihood programs.

## Affidavit attached



हिमाचल प्रदेश HIMACHAL PRADESH

18AA 942194

### Collective Affidavit of Willingness for Irrigation Schemes

#### To whom it may concern

We, all beneficiary farmers, declare without under any pressure and being fully conscious that we all are connected/related with lift irrigation scheme. Village Dakohal, Post Office Natti, Tehsil Hamirpur, District Hamirpur State Himachal Pradesh, with the help of Project management Unit (PMU) of Himachal Pradesh Crop Diversification Promotion Project (HPCDP) with the assistance of Japan International Cooperation Agency.

1. We will provide full support to complete the project work for Dakohal lift irrigation scheme which is being constructed by PMU of HPCDP with the help of Japan International Cooperation Agency.
2. We will not have any objection and will not create any obstruction at the site where construction work i.e. Head weir, percolation well/sump well, Pump House laying of Rising Main., Distribution Tank, Regulation Tank, Outlets, Pipelines, Water Hydrants, Solar panels, Electricity Transformer, SOP etc and laying of pipelines in farmers fields are to be taken.
3. We all farmer will provide full support to any person/agency/ Krishak Vikas Association(KVA) & PMU of HPCDP for irrigation scheme supported by Japan International Cooperation Agency.
4. Any farmer whose land is utilized under the irrigation scheme will not claim any compensation;
5. After completion of the LIS Dakohal, all beneficiary farmers will provide full support to Management Committee for the maintenance of percolation well/sump well, Pump House laying of Rising Main., Distribution Tank, Regulation Tank, Outlets, Pipelines, Water Hydrants, Solar panels, Electricity Transformer etc and also we, all beneficiary farmers, will be responsible to pay electricity bill and other bills.
6. We shall take over the irrigation scheme including different related structures developed under HPCDP-JICA ODA Phase-II after its completion and AMAN KUMAR SHARMA is responsible of its operation & maintenance at our own resources.
7. Beneficiary farmer who take water from KVA will pay water tariff as per the rate fixed by the KVA.

ATTESTED

AMAN KUMAR SHARMA  
NOTARY PUBLIC

Sub-Division Nadaun & Hamirpur (H.P.)

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No 0565915

## Himachal Government Judicial Paper

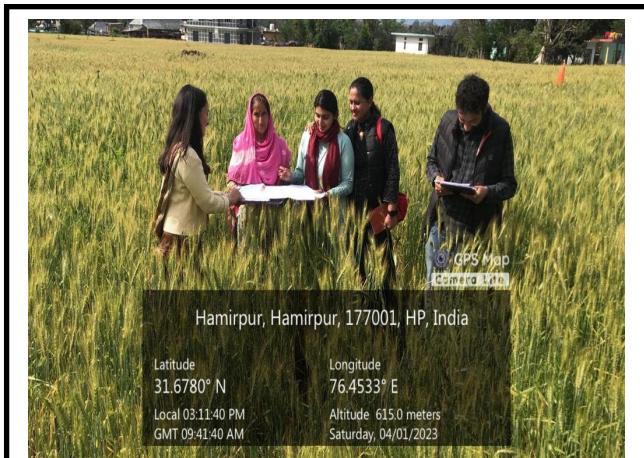
4. Any farmer whose land is utilized under the irrigation scheme will not claim any compensation:

5. After completion of the LIS Dakhal all beneficiary farmers will provide full support to Management Committee for the maintenance of percolation well/sump well, Pump House laying of Rising Main, Distribution Tank, Regulation Tank, Outlets, Pipelines, Water Hydrants, Solar panels, Electricity Transformer etc and also we, all beneficiary farmers, will be responsible to pay electricity bill and other bills etc.

6. Beneficiary farmer who take water from KVA will pay water tariff as per the rate fixed by the KVA.

Sr. No	Name	Father's Name/ Husband's Name	Farmer's Signature
1.	Lalita Sharma	w/o Ruplal Sharma	Lalita Sharma
2.	Salodhna Devi	w/o Gurjan Sharma	Salodhna Devi
3.	Ritu Sharma	w/o Manchar Lal	Ritu Sharma
4.	Shabha Sharma	w/o Ajay Kumar	Shabha Sharma
5.	Nimra Devi	w/o Dev Raj Sharma	Nimra Devi
6.	Veena Devi	w/o Tejwan Chand	Veena Devi
7.	Shambhu Ram	s/o Munshi Ram	Shambhu Ram
8.	Bithani Chand	s/o Anant Ram	Bithani Chand
9.	Raghunath	s/o Braham Das	Raghunath
10.	Rattan Chand	s/o Braham Das	Rattan Chand
11.	Amar Nath	s/o Munshi Ram	Amar Nath
12.	Kamal Kishore	s/o Banka Ram	Kamal Kishore
13.	Madan Lal	s/o Ram Chand	Madan Lal
14.	Arijana Kumar	s/o Ravi Sharma	Arijana Kumar
15.	Poorvita Devi	w/o Om Prakash	Poorvita Devi
16.	Dev Raj	w/o Prabhu Ram	Dev Raj
17.	Madan Lal	s/o	Madan Lal
18.	Naual Kishore	s/o Bansi Ram	Naual Kishore
19.	Pattam Chand	s/o Prabhu Ram	Pattam Chand
20.	Seema Kumar	w/o Davinder Kumar	Seema Kumar
21.	Anuva Kumar	w/o Sudhinder Kumar	Anuva Kumar
22.	Vikas Kumar	s/o Palu Dev	Vikas Kumar
23.	Roop Lal Sharma	s/o Sonu Ram	Roop Lal Sharma
24.	21/11/2011	21/11/2011	21/11/2011
25.	21/11/2011	21/11/2011	21/11/2011
26.	Rekha Devi	w/o Sunil Kumar	Rekha Devi
27.	Vijay Dev	s/o late Sh. Mallah Ram	Vijay Dev
28.	Jeet Ram Sharma	s/o late Sh. Mallah Ram	Jeet Ram
29.	Jagdish Chand	s/o late Sh. Mallah Ram	Jagdish Chand

## Photographs of Micro planning process



Transect walk and identification of Khasra wise detail of Land owners, Custodians and Cultivators.



Identification of Khasra wise detail of Land owners , Custodians, Cultivators.



Resource Mapping



Meeting with farmers regarding Categorization of various groups



Meeting at sub project Dakhola with Project Director Dr. Sunil Chauhan, SPMU team, BPMU Team and PMC Team and farmers of sub project regarding baseline survey, Land ownership, Identification of Custodian, Cultivator and other related topics and field visit with MIS and GIS Team.



## 1. SUB PROJECT INFORMATON

### 1.1 Salient Features

- Name of Sub project: Dakhol
- Type of Irrigation system: LIS
- Source of irrigation water: Kunah Khad
- District: Hamirpur
- Assembly Constituency: Hamirpur
- Gram Panchayat: Nalti
- DPMU: Hamirpur
- BPMU: Hamirpur
- Satellite Office: Hamirpur
- Distance to the nearest APMC Market: Hamirpur 15 km and Sub Market Yard Nadaun-25 km
- Distance to the Local Market: Nalti-1.5 km

**Table 1: Sub Project at Glance**

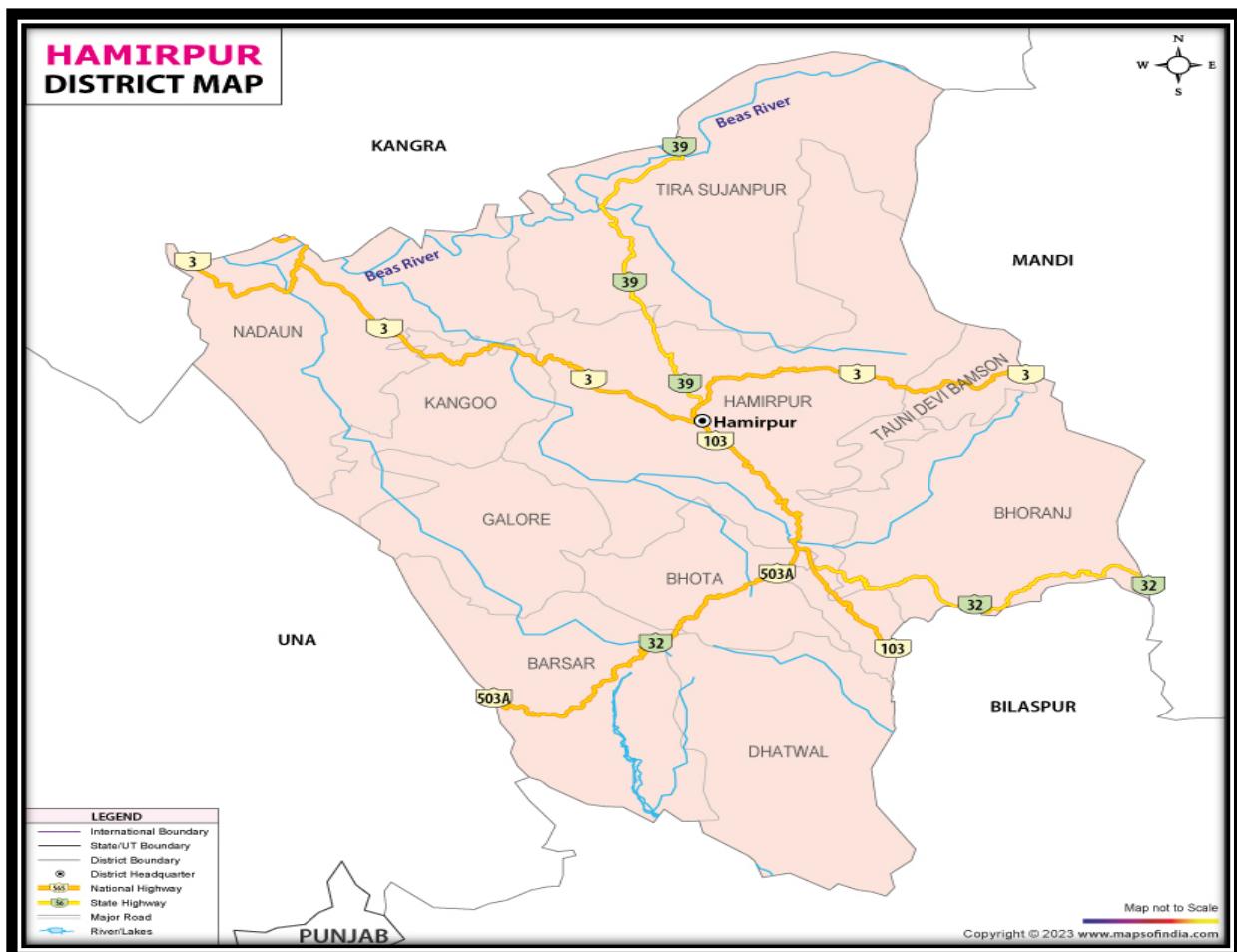
Sr. No.	Description	Units	Value
1	Estimated Cost (Irrigation Infrastructure Development)	Lakhs	62.104
2	GCA	ha	11.95
3	CCA	ha	11.38
4	Cost Per Ha	Lakhs	5.45
5	No. of beneficiary farmers (as per revenue record)	No.	61
6	No. of Household (household survey including absentee)	No.	46
7	No. of Land Parcels (Chaks)	No.	13
8	Irrigation Intensity (Existing)	%	0
9	Irrigation Intensity (Projected)	%	126
10	Cropping Intensity (Existing)	%	172
11	Cropping Intensity (Projected)	%	207
12	Cost Benefit Ratio	Ratio	1:7
13	Baseline Crop Diversification Index	%	0.317
14	Irrigated Land	Ha.	0
15	Net Annual Income After Project	INR	1568478
16	Total Annual Maintance Cost	INR	1145945

(Source: DPR)

### Location of Sub Project Site:

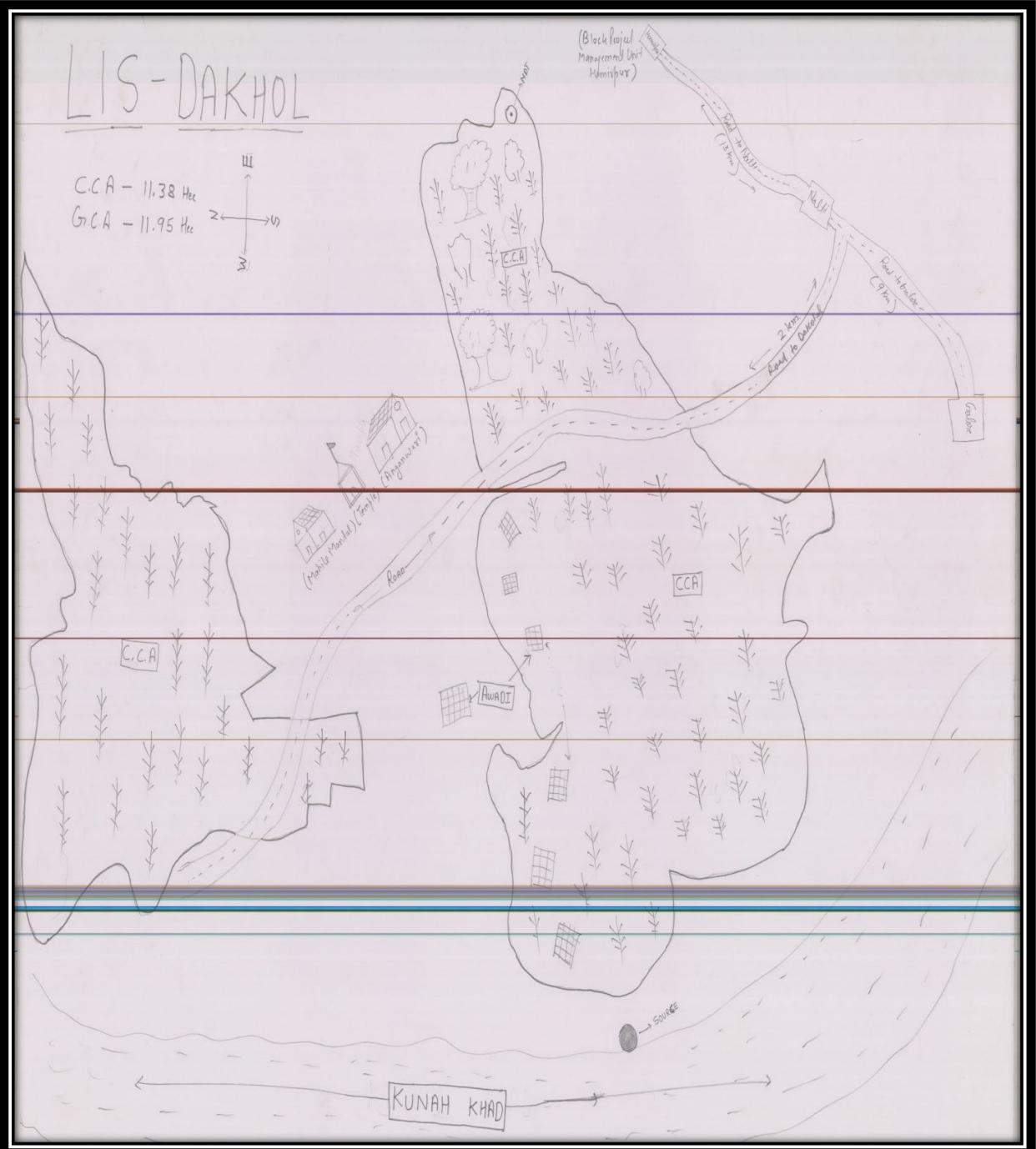
- Latitude -31.6793816 degree
- Longitude- 76.45374 degree

Sub Project Dakhol is situated in Gram Panchayat Nalti on **Hamirpur Galore Road** at a distance of about 15 km from District HQ. The sub project is situated 603 meters above mean sea level and area falls under Agro Climatic Zone I having sandy loam soil. The topography of the CCA is slightly undulating. The CCA falls in Patwar Circle: Jangal-II having Hadbast Number 37/26 containing 609 number of Khasra. In the west the village Dakhol has Kunah Khad while villages viz; Jhareri, Sanai Kalan, Gujrehra, Challeli, Kargu Jagirare located on the other sides (North west Directions). There is no community center in the village and gram panchayat office is located at a distance of 1.5 km at Nalti. There is a common place i.e. Mahila Mandal Bhawan where the meetings, interactions and PRA exercises were conducted.



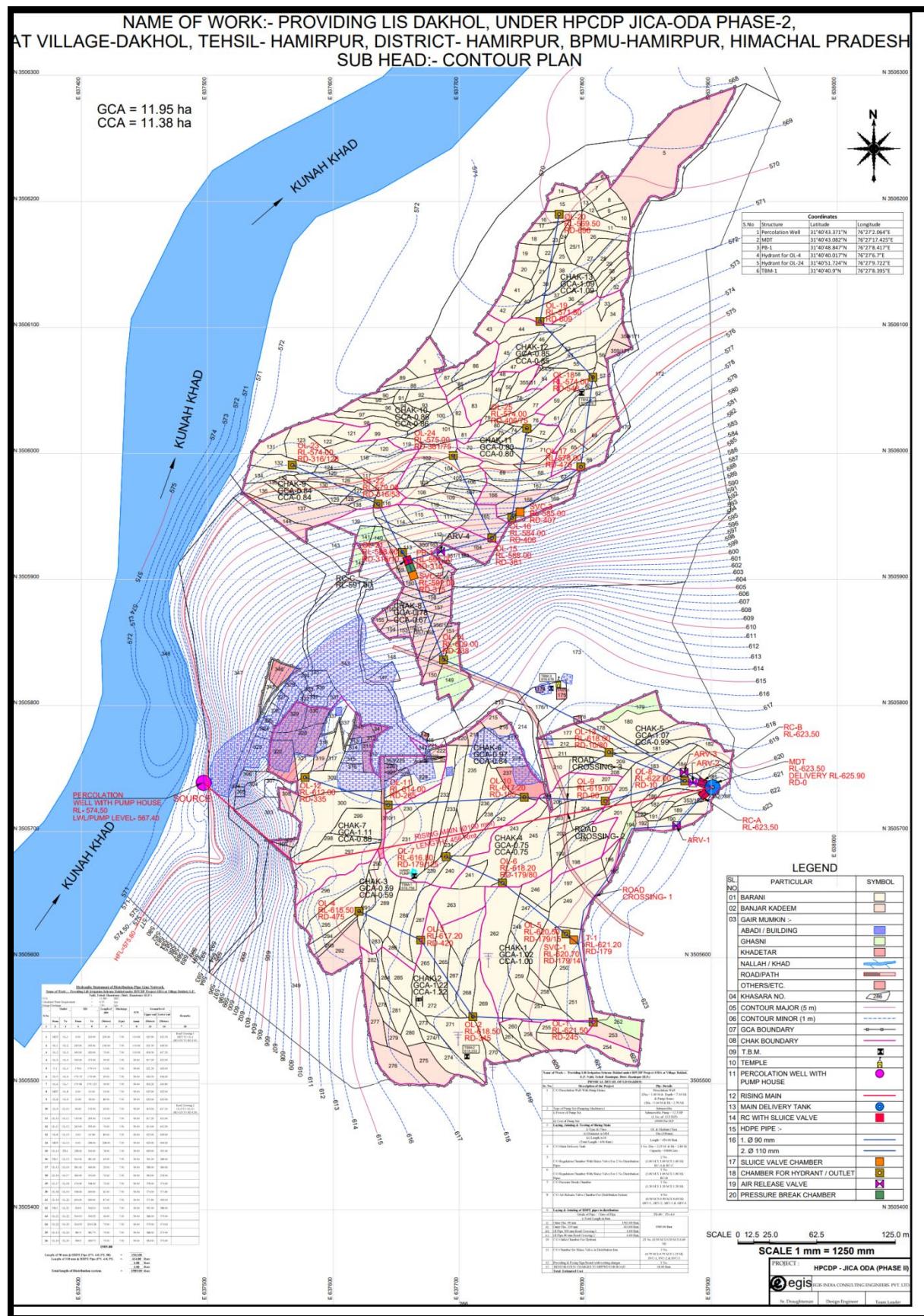
(Source: Google Map)

### Village Resource Map (prepared by community through PRA method):



Source: PRA Exercise (Resource Mapping)

## GIS Survey Map (CCA):



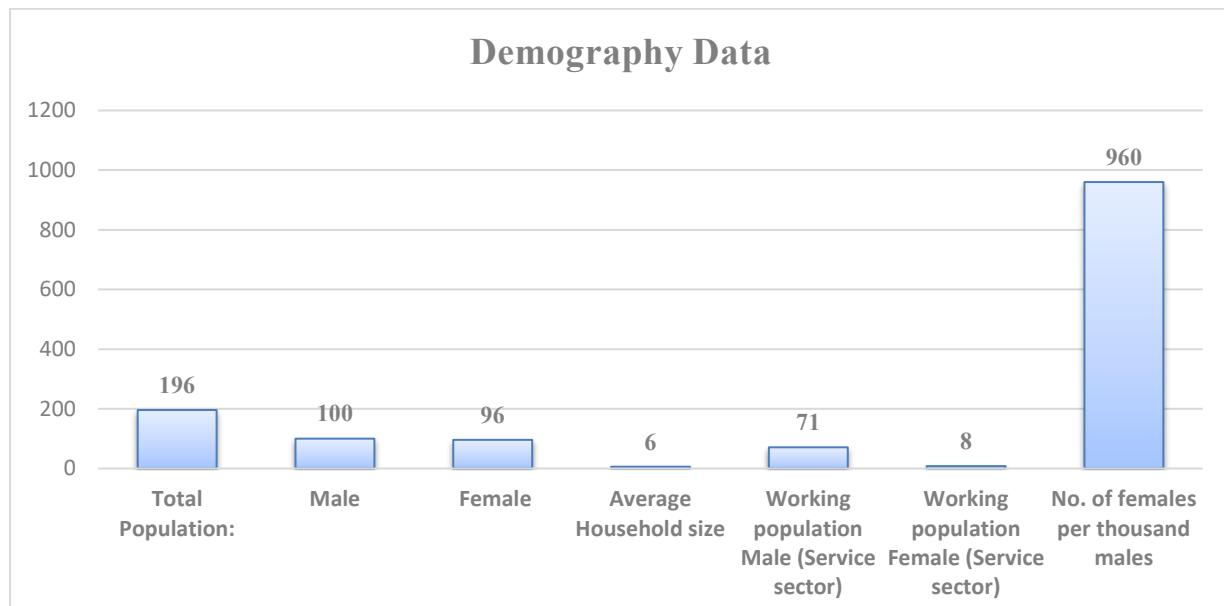
## 1.2 Demography Data of Sub-project

As per the Household survey and meetings with farmers different types of data are captured and consolidated in below mention tables.

**Table 2: Demographic Data (HHs)**

Particular	Number
Total Population:	196
1. Male	100
2. Female	96
Average Household size	6
Working population male (Service sector)	71
Working population female (Service sector)	8
No. of females per thousand males	960

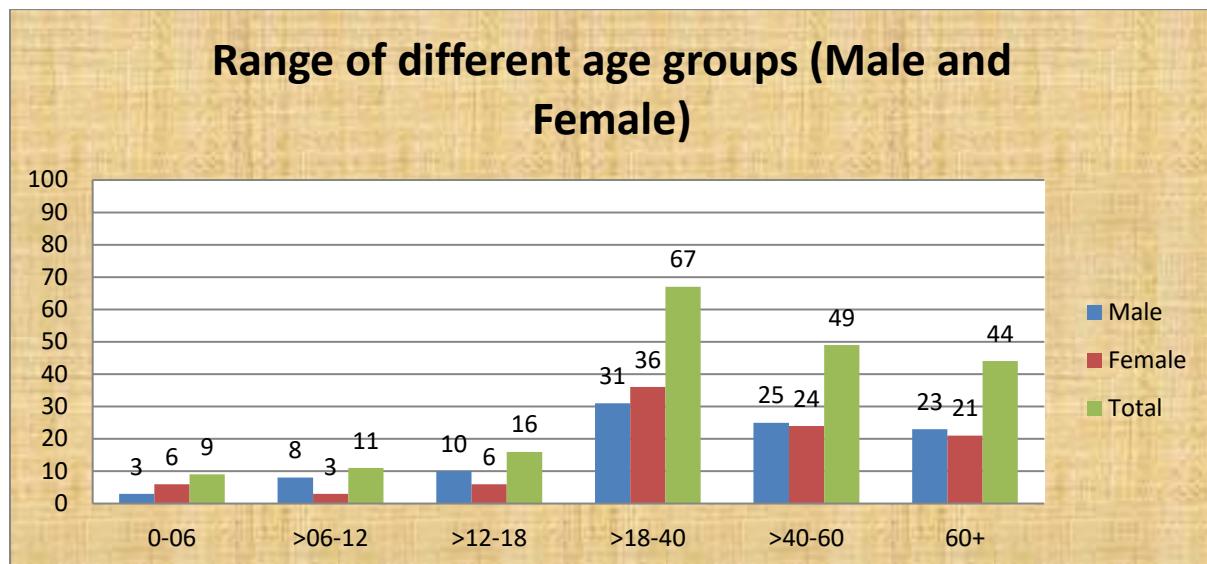
(Source: HHs)



**Table 3: Range of Different Age Groups:**

Sr. No.	Age Group Years	Male	Female	Total	Remarks
1	0-06	3	6	9	0
2	>06-12	8	3	11	0
3	>12-18	10	6	16	0
4	>18-40	31	36	67	0
5	>40-60	25	24	49	0
6	60+	23	21	44	0

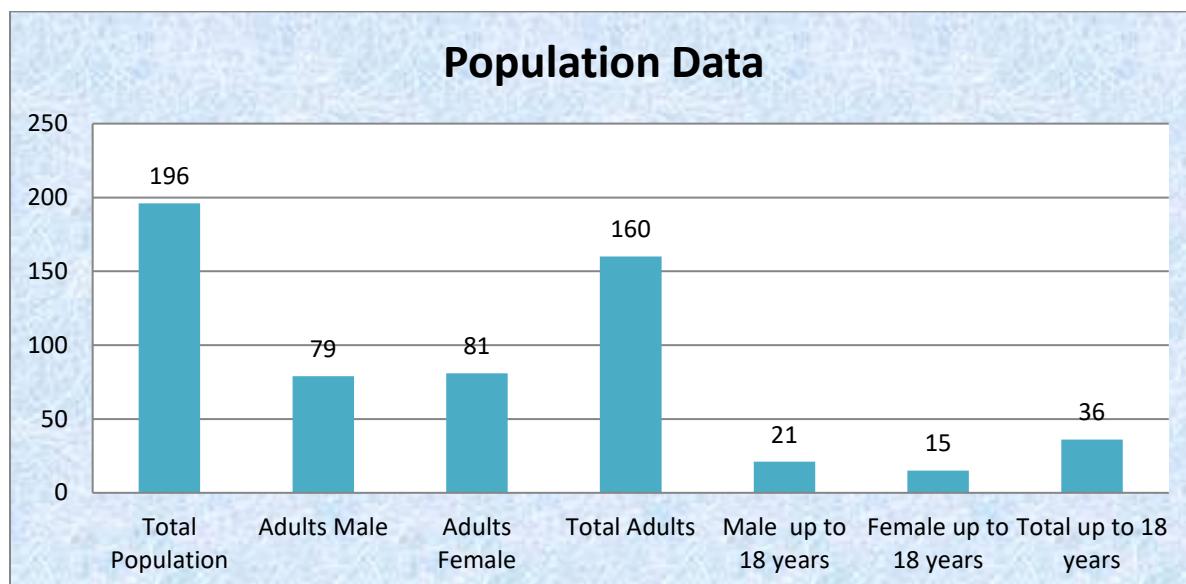
(Source: HHs)



**Table 4: Population Data**

Source: HHs

<b>Total Population</b>	<b>196</b>
Adults Male	79
Adults Female	81
Total Adults	160
Male up to 18 years	21
Female up to 18 years	15
Total up to 18 years	36



**Table 5: Social Composition**

Category	No of households	% of total households	Remarks
General	46	100	0
OBC	0	0	0
Scheduled Caste	0	0	0
Scheduled Tribe	0	0	0
Total	46	100	0

(Source: HHs)

- ✚ **Total Number of Households: 46 No.**
- ✚ **Total number of resident households: 35 No**
- ✚ **Number of non-resident household: 11 No.**
- ✚ **Female headed households: Nil**

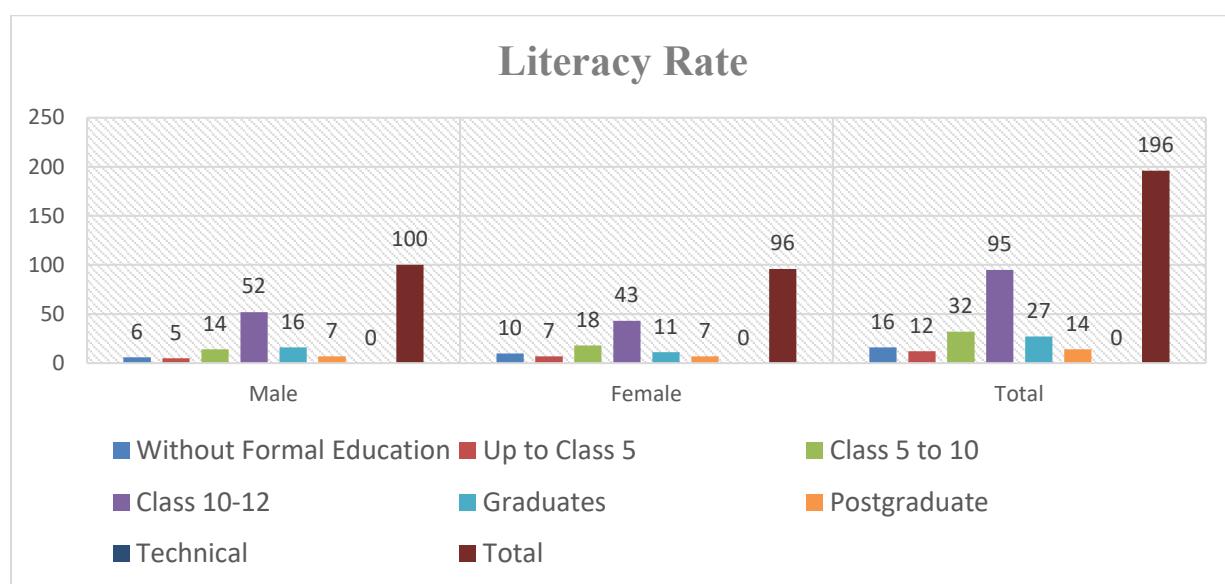
### 1.3 Literacy Rate

**Table 6: Educational Status**

Sr. No.	Education	Male	Female	Total
1	Without Formal Education	6	10	16
2	Up to Class 5	5	7	12
3	Class 5 to 10	14	18	32
4	Class 10-12	52	43	95
5	Graduates	16	11	27
6	Postgraduate	7	7	14
7	Technical	0	0	0
	<b>Total</b>	<b>100</b>	<b>96</b>	<b>196</b>

(Source: HHs)

- ✚ **Literacy rate: 91%**



## **1.4 Access to Basic Facilities/ Services**

**a) Health services:**

PHC is located at Nalti, which is 1.5 km away from sub project.

District Hospital/ Medical College is at Hamirpur.

**b) Veterinary services:**

Veterinary services are available at Patau, which is 0.5 km away from sub project.

**c) Agriculture Sale Centre:**

Agriculture sale centre is available at Nalti, which is 1.5 km away from sub project and farmers can purchase Agri inputs and seek information related to agricultural crops.

**d) Lok Mitra Kendra:**

Lok Mitra Kendra is available at Nalti.

**e) Education Institutions:**

Anganwari: It is available within village.

Govt. Primary School, Dhirwin, which is 0.5 km away from sub project.

Government Sr.Sec. School Nalti, which is 1.5 km away from sub project.

College: Government Degree College Hamirpur, H.P.

**f) Transport:**

Village is connected through village road with main road and bus service and transport is available at distance of 1 km.

**g) Cooperative society:**

Cooperative society is available at Nalti, which is 1.5 km away from sub project.

**h) Markets:** Local Market is available at Nalti for daily needs.

**i) Banks:** A branch of Punjab National Bank & Kangra Cooperative Bank is located at Nalti.

**j) APMC:** APMC Hamirpur is 15 km away from the Sub-Project.





**RESOURCE  
MAPPING OF  
THE VILLAGE**

## **SECTION II**

# **1. RESOURCE MAPPING OF THE VILLAGE**

## **2.1 Water Resources**

There is no infrastructure facility for irrigation despite availability of a perennial water source i.e. Kunah Khad. Presently only single farmer in the sub project area is irrigating his crops through personal lift irrigation arrangements whereas other farmers are dependent on periodic rain for agriculture. Jal Shakti Vibhag of Himachal Pradesh Government supplies drinking water to the households.

## **2.2 Land Resources:**

- a) Total land GCA:** 11.95 ha
- b) CCA:** 11.38 ha
- c) Land under cultivation:** 11.38 ha
- d) Irrigated Land:** 0

**Table 7: Landholding Categories:**

<b>Landholding Categories</b>	<b>No. of Farmers</b>
Marginal Farmers (<1 ha)	46
Small Farmers (1.00 to 2.00 ha)	0
Medium Farmer (2.00 to 4.00 ha)	0
Large Land holding farmers (> 4.00 ha)	0
Total CCA held by small farmers (ha)	0
Total farmers (in No)	35 + 11 (Absentee)
Average farm size of farmers in CCA in ha	0.31 ( 35 farmers)

(Source:HHS)

### **2.2.1 Soil Status and Health**

The average pH of the soil falls within the range of 6 to 7.5, indicating a neutral to slightly acidic reaction. This pH range is generally favorable for growing most of the crops including vegetables. The fields are slightly sloppy, fragmented, and well-drained, which is beneficial for plant growth. The soil's texture is sandy loam and type of soil is Non-Calcic brown soils. The soil depth least 30 centimeters (12 inches) which is preferred for crops. The Organic carbon ranges from low to medium, available potassium from medium level, Nitrogen ranges from low to medium, Phosphorus ranges from medium to High level. The micro-nutrients elements like iron, manganese, zinc, copper etc. are also sufficient in soil.

<b>Latitude</b>	31.6793816 degree
<b>Longitude</b>	76.45374 degree
<b>Type of Soil</b>	Forest and Mountainous Soil (Non calcic Brown soils)
<b>Texture of the soil</b>	Sandy loam
<b>Agro climatic Zone</b>	Sub Mountain sub-tropical Zone I

### 2.3 Human Resource:

In view of the complications of revenue record with respect to the ownership of land, the team worked with the farmers to ascertain legal heirs of the land, marked in the ownership of different land-owners in the sub-project. This exercise not only helped to identify actual target beneficiaries of the project interventions but also to mark the distribution of the land that they owe as legal heirs in the CCA. As per the baseline survey, farm walks and revenue record, the team identified different land owners, custodians (legal heirs) and cultivators and farmers are categorized into three groups namely **Advance, Intermediate, Conservative**.

**Beside this one more category of farmers have been carved out of all these which fall under the group of Vulnerable families (Refer Table No 13).** This has been done as per present status of crop diversification, livelihood activities etc.

Youth group i.e. 19 to 40 years are also identified, however maximum numbers among these are involved in professional jobs or business. Farming is practiced by farmers aged more than 40 years along with few youth members.

**Table 7.1: Landholding Categories:**

S.No.	Particulars	Nos.
1	Land Owner Families	61
2	Custodian Families	46
3	Land Cultivators Families	35
4	No. of Absentee Farmer	11
5	No. of Specially Abled Families	0
6	No. of Women Headed Families	1
7	No. of BPL Families	7

### 2.3.1 Farmers Categories for crop diversification:

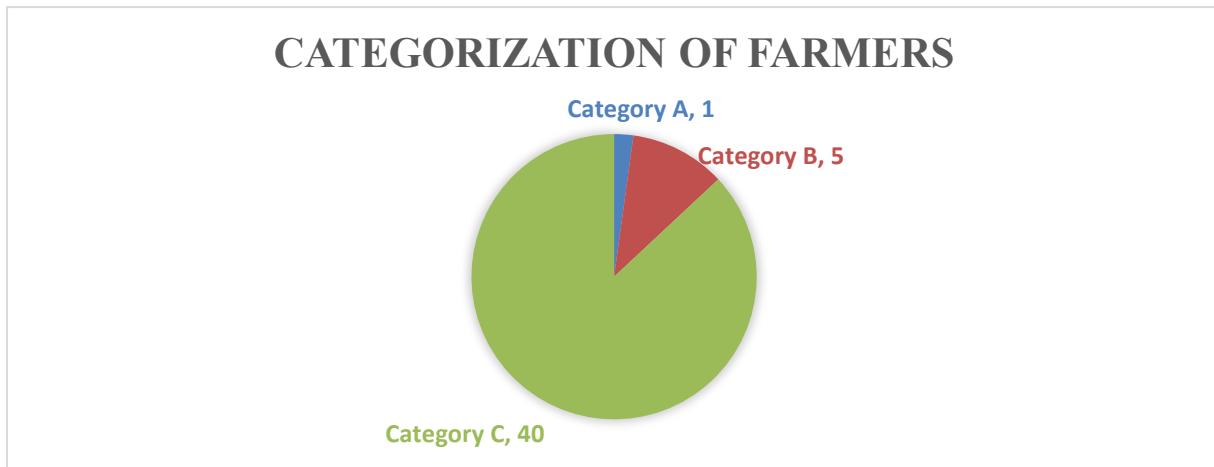
Extensive exercise and various field visits were conducted at sub project. Various PRA tools were applied to understand the cropping pattern and land data. Group meetings were conducted to categorize farmers into Advance (A), Intermediate (B) and Conservative(C) groups.

**Table No: 8 Detail of different group of farmers (Pre project interventions)**

Advance Group (A)	Intermediate (B)	Conservative (C)
Divender	Amar Nath	Joginder
	Raghu Nath	Subhash
	Subhash	Prem Chand
	Ajay	Dhani Ram
	Manohar Lal	Prittam Chand
		Shambhu ram
		Om Prakash
		Rattan Chand
		Rakesh Kumar
		Khayali Ram
		Vipan Kumar
		Ravi Kumar
		Terseem
		Roop Lal
		Purshotam Chand
		Ramesh Chand
		Dev Raj
		Satish Kumar
		Prithvi Chand
		Bhagwan Dass
		Mast Ram
		Birbal
		Pritam Chand
		Dev Raj
		Geeta Devi
		Sunil Kumar
		Kamal Kishor
		Dharam Chand
		Suriender Kumar
		Madan Ram
		Naval Kishor
		Kebal Krishan
		Ashok Kumar

	Prakash Chand
	Prakash Chand
	Kulwant Kumar
	Sunil Kumar
	Sukh Dev
	Achru Ram
	Asha Rani

**Total: Category A-1No, Category B-5 No, Category C-40 No**



### **2.3.2. Categorization of farmers for livelihood support (Vulnerable Group-Category D)**

There are 46 No. of families in the KVA out of which 11 No of families are absentee. The remaining 35 farming families have varied land ownership. On the basis of annual income from different sources, physical assets, livestock etc. data for wealth ranking is collected through PRA tools. Data analysed and interpreted in “Table No 10”. Out of 35 No’s of Families, 7 No’s are categorized under Category “Z” (BPL families and women headed families, as per Gram Panchayat record). The project has considered to support such members of the KVA who are socially vulnerable and crop diversification may not be suitable for them for the purpose of extending livelihood support through on/off farm activities. However, to make it more yielding the maximum number of such families is restricted to 10 % of the total member’s families of KVA. The selection of these eligible vulnerable families has been made out of the following category of member families of the KVA and approved by its general house.

- Women/men under BPL category
- Women/men with disability
- Female headed household without assured income
- Single women (widow/separated/deserted/unmarried)
- Having very less land or landless families

**Table: 9 Detail of Specially abled farmer (if any) in the Sub Project**

S.N.	Name of the farmer	Name of the Father/Husband	HPCDP Family Reg. No.	Age	Education	Current Occupation	Scope of income generation from project interventions including livelihood support
1	Nil	Nil	Nil	Nil	Nil	Nil	Nil

**Table: 10 Detail of Women headed families in the Sub Project:**

SN	Name of the women	Name of the Father/Husband	HPCDP Family Reg. No.	Age	Source of income	Annual Family Income (in Rs.)	Scope of income generation from project interventions including livelihood support
1	Asha rani	W/o Dev Raj	P290/HMR/Dakhol -17	45	Widow pension and other	75000/-	(Mushroom/Dairy)

**Table: 11 Detail of Below Poverty Line (BPL) families in the Sub Project**

SN	Name of the farmer	Name of the Father/Husband	HPCDP Family Reg. No.	Present Source of income	Scope of income generation from project interventions including livelihood support
1	Sh. Ankush	S/o Sh. Raghu Nath	P290/HMR/Dakhol-11	Private Job	Interested in Service sector activities
2	Sh. Achru Ram	S/o Sh. Ram Chand	P290/HMR/Dakhol-43	Wage labour	(Mushroom/ Dairy)
3	Smt. Asha Rani	W/o Sh. Dev Raj	P290/HMR/Dakhol-17	Housewife	
4	Sh. Dev Raj	S/o Sh. Barfi Ram	P290/HMR/Dakhol-23	Private job	
5	Sh. RoopLal	Sh. Nikka Ram	P290/HMR/Dakhol-20	Private job	
6	Sh. Jagdish	S/o Sh. Malah Ram	P290/HMR/Dakhol-31	Wage labour	
7	Sh. Madan Lal	S/o Sh. Ram Chand	P290/HMR/Dakhol-37	Pensioner	

**Table:12 Detail of other Vulnerable farming families on the basis of wealth ranking, other than the above three categories (Refer Table No 20 for Criteria)**

S.N.	Name of the farmer	Name of the Father/Husband	HPCDP Family Reg. No.	Present Source of income	Scope of income generation from project interventions including livelihood support
Nil	Nil	Nil	Nil	Nil	Nil

**Table: 13 Final approved List of Vulnerable farmers by the KVA under “Category D”**

S.N.	Name of Farmer & address
1	Sh. Ankush S/o Sh. Raghu Nath Vill. Dakhol P.O. Nalti
2	Sh. Achru Ram S/o Sh. Ram Chand Vill. Dakhol P.O. Nalti
3	Smt. Asha Rani W/o Sh. Dev Raj Vill. Dakhol P.O. Nalti
4	Sh. Dev Raj S/o Sh. Barfi Ram Vill. Dakhol P.O. Nalti
5	Sh. RoopLal S/o Sh. Nikka Ram Vill. Dakhol P.O. Nalti
6	Sh. Jagdish S/o Sh. Malah Ram Vill. Dakhol P.O. Nalti
7	Sh. Madan Lal S/o Sh. Ram Chand Vill. Dakhol P.O. Nalti

### **2.3.3 Detail of Land owners, Custodian and Cultivator along with HPCDP Family Registration number:**

After conducting various sensitization meetings, training camps, meetings with farmers regarding DPR preparation, revenue record is collected from respective Revenue office and ownership statement for DPR is prepared consisting of detail of land owners and area under barani dofasli, banjar, gair mumkin, abadi etc. Detail of khasra wise area of different land owners is also prepared from the record. Also visited farmer's field with MC members and beneficiaries and with the help of KML file of contour plan of sub project custodians and cultivators of particular field is identified and marked in the contour map of sub project Dakhol (Map attached). HPCDP Family registration number is allotted to every custodian family including absentee farmers. Data is analyzed and compiled in below mention table.

**Table14: Details of Cultivator, Custodian, Landowners\***

Sr. No.	Name and parentage of farmer	Planning Area & Khasra Nos	HPCDP Family Registration Number	Custodian family & Relation / Joint	Khasra Number & Area	Cultivator / Absentee	Remarks
1	Lajvanti W/o Banku Ram	203, 202, 210, 274, 263, 230, 228, 95, 90, 359, 171, 48, 354/51, 166, 357/152, 54,125, 360/223, 362/225 Kita 19 = 0.4845ha	P290-HMR-Dakhol -1	Joginder S/o Sh. Banku Ram (Son)	203P, 202P, 210P, 274P, 263P, 230P, 228P, 95, 90, 359, 171, 48P, 354/51P, 166P, 357/152P, 54P,125P, 360/223P, 362/225P Kita 19 = 0.1615	Self	Land is cultivated jointly and the produce is divided equally.
			P290-HMR-Dakhol -2	Subhash S/o Sh. Banku Ram (Son)	203P To 362/225 Kita 19 = 0.1615	Self	
			P290-HMR-Dakhol -3	Divender S/o Sh. Banku Ram (Son)	203P To 362/225 Kita 19 = 0.1615	Self	
2	Prem Chand S/o Sh. Ruliya Ram and other	181, 183, 256, 257, 245, 218, 321, 184, 112, 65, 136, 82, 83, 29, 58, 204 Kita 16 = 0.9241ha	P290-HMR-Dakhol -4	Prem Chand S/o Sh. Ruliya Ram	183, 256P, 257P, 245P, 218P, 321P, 184P, 112P, 65P, 136P, 82P, 83P, 29P, 58P, 204P Kita 15 = 0.35	Khayali Ram S/o Pala Ram	Absentee
			P290-HMR-Dakhol -5	Pritam Chand S/o Sh. Ruliya Ram	181, and 256P to 204P Kita 15 = 0.323	Self	
			P290-HMR-Dakhol	Dhani Ram S/o Sh. Ruliya Ram	256P to 204P Kita 14 = 0.251	Pritam Chand S/o Sh. Ruliya	Absentee

			-6			Ram	
3	Shambhu RamS/O Munshi Ram and others	185,186,212, 264,67,91,25, 55,211,265,9 2,32,53,38,26 7,199,231,31 6,315,314,31 3,93,84,85,49 ,50,52,107/3, 106,108,007, 008,009,0010 ,158,157,155, 161 kita =38, 1.0539	P290-HMR-Dakhol -7	ShambhuRamS/O Munshi Ram	185,186,212, 264,67,91,25 ,55,107P,106 P,108P,007P, 008P,009P,1 0P,158P,157 P,155P,161P KITA 19, 0.3233	Self	
			P290-HMR-Dakhol -8	Om PrakashS/O Munshi Ram	211,265,92,3 2,53,38,107 P to 161P KITA= 17, 0.2628	Self	
			P290-HMR-Dakhol -9	Amar NathS/O Munshi Ram	267,199,231, 316,315,314, 313,93,84,85 ,49,50,52107 P to 161P KITA= 24, 0.4677	Self	
4	Rattan Chand S/O Brahma and others	180,262,113, 64,80,86,100, 27,18,162,15 3,244,16 kita= 13 , 0,5898	P290-HMR-Dakhol -10	Rattan Chand S/O Brahma	180P,262P,1 13P,64P,80P, 86P,100P,27 P,18P,162P,1 53P,244P,kit a= 13 0.1947	Self	
			P290-HMR-Dakhol -11	Raghu Nath S/O Brahma	180P to 244 P, kita=13, 0.1976	Self	
			P290-HMR-Dakhol -12	Rakesh Kumar S/O Brahma	180P to 244 P, kita=13, 0.1977	Self	
5	Khayali Ram S/o Palla Ram	259,243,144, 137,66,28,17, 77 kita=8, 0.3742	P290-HMR-Dakhol -13	Khayali Ram S/o Palla Ram	259,243,144, 137,66,28,17 ,77 kita=8, 0.3742	Self	
6	Vipan Kumar S/O Sant ram	178,269,110, 70,138,129,1 30,1,39,165,2 21,272,277,3	P290-HMR-Dakhol -14	Vipan Kumar S/O Sant ram	178,269,110, 70,138,129,1 30,1,39,165, 221,272,277,	Self	

		42 kita=14, 0.6174			342 kita=14, 0.6174		
7	Subhash Chand S/O Roshan Lal and others	177,168,151, 88,89,12,14,2 78,279,5,6,63 ,79,78,154,13 9,273,270,27 1,236,13,15,2 1kita=23, 0.9768	P290- HMR- Dakhol -15	Subhash Chand S/O Roshan Lal	177,168,151, 88,89,12,14, 278,279,5,6 kita=11, 0.5995	Self	
			P290- HMR- Dakhol -16	Ravi Kumar	6379781541 39273 kita=6, 0.1635	Self	
			P290- HMR- Dakhol -17	Asha Rani	270,271,236, 13,15,21 kita=6, 0.2138	Self	
8	Ratni Devi(Chin ti Devi) w/o Thakur Dass and others	208,281,255, 246,241,111, 97,69,61,75,2 3,150,190,21 5 kita=14, 0.3916	P290- HMR- Dakhol -18	Ajay s/o Thakur Dass	208,281,255, 246,241,111, 97,69,61,75, 23,150,190,2 15 kita=14, 0.3916	Self	
9	Tersem Chand S/O Nikka Ram and others	207,248,160, 73,98,114,25 8,240,216, kita =9, 0.3378	P290- HMR- Dakhol -19	Tersem Chand S/O Nikka Ram	207P,248,16 0P,73P,98P,1 14P kita= 6,0.1495	Self	
			P290- HMR- Dakhol -20	RoopLal S/O Nikka Ram	258,240,216, 207 P to 114 P, kita= 8, 0.1883	Self	
10	Purshotta m Chand S/O Barfi Ram	206,247,239, 217,115,72,7 4,96,33,209,2 76 kita=11, 0.5490	P290- HMR- Dakhol -21	Purshotam Chand S/O Barfi Ram	206P,247P,2 39P,217P,11 5P,72P,74P,9 6P,33P,209P, 276P kita=11, 0,0896	Ramna Devi w/o Dev Raj	Absentee
			P290- HMR- Dakhol -22	Ramesh ChandS/O Barfi Ram	206P to 276 P, KITA =11 0.0904	Ramna Devi w/o Dev Raj	Absentee
			P290- HMR- Dakhol -23	Dev Raj S/O Barfi Ram	206P to 276 P, KITA =11 0.0904	self	

			P290-HMR-Dakhol -24	Satish Kumar S/O Barfi Ram	206P to 276 P, KITA =11 0.0905	Ramna Devi w/o Dev Raj	Absentee
11	Prithvi Chand S/O Anant Ram and others	235,220,260, 261,268109,1 69,71,62,127, 128,87,31,16 4,182,189,19 6,201 kita=18 , 0.6437	P290-HMR-Dakhol -25	Prithvi Chand S/O Anant Ram	235,220,109 P,169P,71P,6 2P,127P,128 P,87P,31P,16 4P,182P,189 P,196P,201P kita= 15, 0.2351	Self	
			P290-HMR-Dakhol -26	Bhagwan Dass S/O Anant Ram	260,261, 109P to 201P kita= 15, 0.1451	Self	
			P290-HMR-Dakhol -27	Mast RamS/O Anant Ram	109P to 201P kita= 13, 0.1112	Self	
			P290-HMR-Dakhol -28	Birbal S/O Anant Ram	268,109P to 201P kita= 14, 0.1523	Mast Ram S/O Anant Ram	Absentee
12	Prittam Chand S/O Prabhu and others	266,274,229, 116,126,358/ 171,355/51,1 59,156,152,3 56/152,191,1 92,193,200,2 22,224,361/2 23,363/225 kita=19,0.503 2	P290-HMR-Dakhol -29	Pritam Chand S/O Prabhu	266P,274P,2 29P,116P,12 6P,358P/171 P,355/51P,15 9P,156P,152 P,356/152P,1 91P,192P,19 3P,200P,222 P,224P,361/2 23P,363/225 P kita=19,0.24 93	Self	
			P290-HMR-Dakhol -30	Dev Raj S/O Prabhu	266P to 363/225 P kita=19 0.2539	Self	
13	Geetan Devi W/O Malhah	280,254,205, 242,300,68,1 17,99,122,13 5,76,19,20,36	P290-HMR-Dakhol -31	Geetan Devi W/O Malhah	280,254,205, 242,300,68,1 17,99,122,13 5,76,19,20,3	Self	

		,124,275,283, 308,345 kita=19,0.707 9			6,124,275,28 3,308,345 kita=19,0.70 79		
14	Ratni Devi/Jai Dei ( Mother in law of Ratni Devi)W/O Banka Ram/W/O Gopi	250,253,317, 287,289,296, 299,118,43,2 82,290,104,8 1,121,132,26, 41,42,47,25/1 ,37,40 kita = 22, 1.0346	P290- HMR- Dakhol -32	Sunil Kumar S/O Banka Ram	250P,253P,3 17P,287P,28 9P,296P,299 P,118P,43P,2 82P,290P,10 4P,81P,121P, 132P,26P,41 P,42P,47P,25 /1P,37P,40P kita = 22, 0.3562	Self	
			P290- HMR- Dakhol -33	Manohar Lal S/O Banka Ram	250P to 40 P kita= 22, 0.3392	Self	
			P290- HMR- Dakhol -34	Kamal Kishor S/O Banka Ram	250P to 40 P kita= 22, 0.3392	Self	
15	Sant Ram S/O Khajana	251,288,295, 309,105,101, 134,011,44,2 84,301,302,3 37, kita =13, 0.6004	P290- HMR- Dakhol -35	Dharam Chand S/O Sant Ram	251P,288P,2 95P,309P,10 5P,101P,134 P,011P,44P,2 84P,301P,30 2P,337P, kita =13,0.2958	Self	
			P290- HMR- Dakhol -36	Suriender Kumar S/O Sant Ram	251P to 337P , kita= 13, 0.3046	Self	
16	Madan Lal S/O Ram Chand	198,233,234, 59,133,94,56, 187,353/188 kita= 9, 0.2433	P290- HMR- Dakhol -37	Madan Lal S/O Ram Chand	198,233,234, 59,133,94,56 ,187,353/188 kita= 9, 0.2433	Self	
17	BansiLal S/O Norang	197,294,298, 318,102,103, 119,131,46,3 5,24,286,293 kita=13, 0.3762	P290- HMR- Dakhol -38	Naval Kishor S/O Bansi Lal	197P,294P,2 98P,318P,10 2P,103P,119 P,131P,46P,3 5P,24P,286P, 293P	Self	

					kita=13, 0.1061		
			P290-HMR-Dakhol-39	Kebal Krishan S/O Bansi Lal	197P to 293 P, kita=13, 0.09	Self	
			P290-HMR-Dakhol-40	Ashok Kumar S/O Bansi Lal	197P to 293 P, kita=13, 0.09	Naval Kishor S/O Bansi Lal	Absentee
			P290-HMR-Dakhol-41	Prakash Chand S/O Bansi Lal	197P to 293 P, kita=13, 0.09	Naval Kishor S/O Bansi Lal	Absentee
18	Prakash Chand S/O Norang/ Ganpat	249,291,297, 120,123,34,4 5,285,292,31 9,338 kita=11, 0,7897	P290-HMR-Dakhol-42	Prakash Chand S/O Norang/ Ganpat	249,291,297, 120,123,34,4 5,285,292,31 9,338 kita=11, 0.7897	Self	
19	Achru Ram S/O Ram Chand	238,232,219, 167,57,30,35 0/163,60,195, 352/188 kita=11, 0.3008	P290-HMR-Dakhol-43	Achru Ram S/O Ram Chand	238,232,219, 167,57,30,35 0/163,60,195 ,352/188 kita=11, 0.3008	Self	
20	Kulwant Kumar, Sunil Kumar S/O Khayali Ram and others	66,28,17 kita=3,0.0544	P290-HMR-Dakhol-44	Kulwant Kumar S/O Khayali Ram	66,28,17 kita=3,0.0269		Absentee
			P290-HMR-Dakhol-45	Sunil Kumar S/O Khayali Ram	66,28,17 kita=3,0.0275	Self	
21	Sukhdev S/O Vakshi	22 kita=1, 0.0194	P290-HMR-Dakhol-46	Sukhdev S/O Vakshi	22 kita=1, 0.0194	Shambhu Ram S/O Munshi Ram	Absentee
	<b>TOTAL</b>				<b>11.3853</b>		

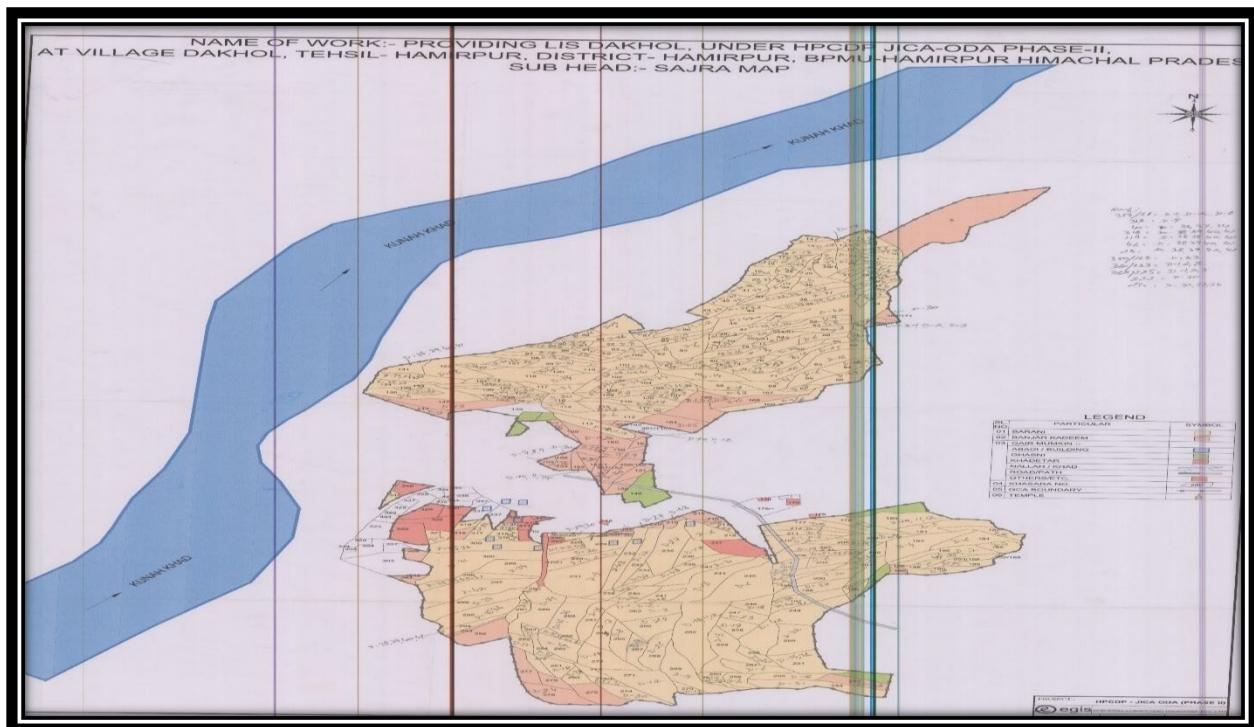
(Source: PRA Exercise)

**Abstract of Land owners, Custodian, Cultivators (as per baseline):**

Sr.No.	Total number of Land owners	Total number of Custodian	Total number of Absentee Farmers	Total number of Cultivator	Average land holding per cultivator (in ha)
1	61	46	11	35	0.31

S.N	Range of land holding (in ha)	Total No of cultivators and area	Category		
			A	B	C
1	Upto 0.2	25 No. (3.3953 ha)	1	1	23
2	More than 0.2 upto 0.4	16 No. (4.807 ha)	0	2	14
3	More than 0.4 upto 0.8	5 No. (3.183 ha)	0	2	3
4	More than 0.8	0	0	0	0

 **Map of Sub project Dakhola (Allocation of HPCDP Family Registration Number)**



## 2.4. LIVELIHOOD MAPPING FOR THE VULNERABLE FAMILIES OF THE SUB PROJECT

### 2.4.1 Economic Categories

As per criteria fixed by the Department of Rural Development, GoHP, households of Dakhola categorized by the gram Sabha as under:

- APL:39 No's

- BPL:7 No's

#### 2.4.2 Village Organisations

The survey findings indicate that the farmers in the sub project are engaged with community based organizations. The details are as follows:

**Table:15 Detail of existing village organization**

Sr. No.	Institutions	Year of Formation	Membership		Detail of President
			Male	Female	
1	Coop. Society	2020	4	0	Sh. Jayoti
2	SHG	2019	0	10	Smt. Pallavi Sharma
3	Mahila Mandal	2014	0	30	Smt. Ramana Kumari

Source: Household Survey

#### 2.4.3. Present Livestock Resources:

The farmers are rearing livestock as a supplementary agro-based income generation activity, especially for landholders with low landholding.

**Table 16: Detail of Present Livelihood activities within sub project-**

Sr.No.	Type of livelihood/activities	No. of units	No. of animals	Self consumed/sale	Milk Production (if sold)	Value (Rs.) at Base year
1	<b>Milch Animals</b>	No's	0	Nil	0	0
a	Cow	3	3	Self	0	0
b	Buffalo	22	28	Self	0	0
2	<b>Meat/ Milk Animals</b>	No's	0	Nil	0	0
a	Sheep		0	Nil	0	0
b	Goats		0	Nil	0	0
3	<b>Fisheries</b>	No of farm enterprise	0	Nil	0	0
4	<b>Poultry</b>	No's	0	Nil	0	0
a	Meat		0	Nil	0	0
b	Eggs		0	Nil	0	0
5	<b>Mushroom</b>	No of farm enterprise	0	Nil	0	0
6	<b>Sericulture</b>	No of farm enterprise	0	Nil	0	0
7	<b>Apiculture</b>	No of farm enterprise	0	Nil	0	0
8	Others		0	Nil	0	0

(Source: HHs)

#### 2.4.4. Farm Business Pattern

As per household survey, farmers of sub project are cultivating vegetables, cereals, along with dairy activity. The detail of category wise business pattern is given below:

**Table 17: Farm Business Pattern data**

Category	Nos of farmer s	Veget able	Fruit s	Food grain s	Dairy	NTFP	Others	Remarks
A	1	1	0	1	1	0	0	Within village
B	5	0	0	5	5	0	0	Self-consumption
C	40	0	0	40	25	0	0	Self-consumption

(Source: HHs)

#### 2.4.5. Present Occupational Structure of Sub Project

The finding of the survey shows that the population is engaged in Govt jobs, Private jobs, agriculture, business and other sources of income. The detail of occupation pattern is given in the table

**Table 18: Present primary Occupation pattern and working population**

Category Families	Nos of families	Govt /Private service	Daily wagers	Agriculture and allied	Business	Others (Pensioner)	Remarks
A	1	0	0	1	0	0	0
B	5	3	1	0	4	2	0
C	40	76	13	0	14	10	0

(Source:HHS)

#### 2.4.6 Livelihood and Agribusiness Activities prevalent in the vicinity/panchayat/block/district of sub project/cluster

After detailed discussion with farmers of sub project, Block office and other farmers and enterprises information on various enterprises prevalent in the vicinity of sub project is as under:

Dairy farming

Mushroom Cultivation

Bee-keeping



**Table 19 Detail of Present Agribusiness Activities in the vicinity/district**

<b>Sr. No.</b>	<b>Name of major enterprises</b>	<b>Detail about business activities</b>	<b>Business Volume (approx.)</b>	<b>Major key Enterprise (Name and Contact Number)</b>	<b>Marketing Channel</b>
1	<b>“Vyas Valley Federation” Producer Company, Nadaun, Distt- Hamirpur</b>	Honey production, Dairy, Wheat and Maize flour, Turmeric	Honey- 40 qt per annum	Suresh Kumar S/o Om Dutt, Village Kwant	9805363488
			Wheat & Maize Four- 30 qt per month	Vipin Kumar S/o Madho Ram, Vill- Karari PO Gawalpathar	8219610300
			Milk-60 qt per month		
			Mustard oil- 15 qt per month	Gopal Chand S/o Pala Ram Vill- Gawalpathar	9816251884
			Turmeric Powder- 1 qt per month		
2	<b>Mushroom Unit</b>	Button Mushroom	3 qt per day	Ravinder Kumar Vill- Baldukh PO Rangas	9805240336
			1 qt per day	Vishal S/o Ranjeet Singh, Village Barta	8351912017
3	<b>Food Processing Unit</b>	Jaggery	45 quintal per annum	Sunil S/O Prakash Chand Vill.- Sukrala	8894826675
4	<b>Dairy</b>	Milk	2.3 qt per day	Suresh kumar S/o SandhyaDassVill- Karai	9882481618
5	<b>“Rudra Shakti Herb” Aloe-vera</b>	Health Suppliments (Varieties of juices and syrups)	1000 lt. per day	Sunil Kumar S/o Mohinder Singh Vill- Badhera Near Kangoo District Hamirpur	7009454779

#### 2.4.7 Wealth Ranking:

A combination of different PRA techniques such as focus group discussions, household survey, meetings etc. were used to categorize the farmers according to the wealth status.

**Table 20: Wealth Ranking for Different Social Ranks**

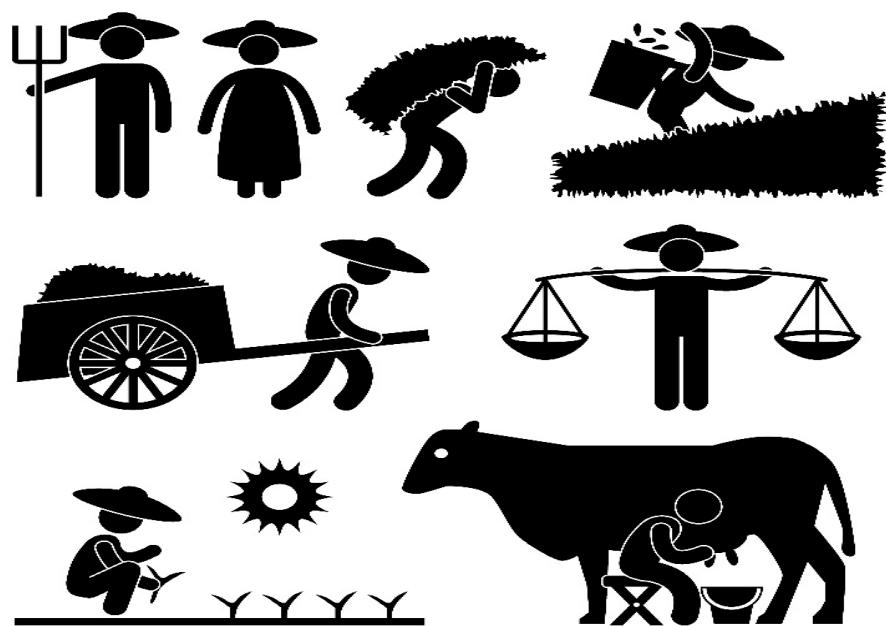
Nos. of Families – (Category W)	Nos. of Families - (Category X)	Nos. of Families - (Category Y)	Nos. of Families - (Category Z)	Total Families (No's)
16	5	7	7	35

W- Better off, X- Manageable, Y- Poor, Z- Vulnerable

**Criteria for Wealth ranking**

Category	Occupation	Annual Income +Livestock+ Physical Assets
Category W	Government employee/ Private Employee/ Pensioner, Business men/ others	More than 2.5 lakh + cow/ Buffalo+ Pucca House + vehicle
Category X	Plumber, Vegetable grower, Electrician, Beauty parlour, Small Business men	1.5 lakh to 2.5 lakh + cow/ Buffalo+ Kutch/ Semi pucca House + Small Vehicle (may or may not be)
Category Y	Daily wage labour, Pensioner (less) others	Less than 1.5 lakh + Kutch/ Semi pucca House
Category Z	BPL families, Women headed, Landless	As per data of Rural Development department and Household survey





EXISTING  
CROP  
CULTIVATION  
SCENARIO

## SECTION III

### 3.EXISTING CROP CULTIVATION SCENARIO

Cropping pattern in Dakhol village is dependent on several factors, production infrastructure including the local climate, soil conditions, market facilities, local food habits and agricultural practices. Existing cropping pattern is discussed with farmers during household surveys and data captured is consolidated in below mention table.

#### 3.1. Category-wise Area and Production-

The category-wise information of area and production under cultivation of major crops during Rabi and Kharif season before the project is given below:

**Table 21: Abstract of Category-wise Area under Crops and their Production (based on household survey Year 2022-23)**

Category	No. of Farmers	Total Area(ha)	Major Rabi Crops			Major Kharif Crops			Remarks
			Crop	Area (ha)	Production (qt)	Crop	Area (ha)	Production (qt)	
A	1	0.1615	Wheat	0.1015	1.8	Maize	0.1015	1.9	
			Vegetables	0.06	6	Vegetables	0.06	7.2	
B	5	1.9956	Wheat	1.7956	28.73	Maize	1.7456	31.79	
			Fodder	0.2	40	Fodder	0.25	54	
C	38	9.2282	Wheat	7.4682	118	Maize	7.3282	119.49	
			Fodder	1.76	350	Fodder	1.90	456	

**DETAIL OF CATEGORY WISE EXISTING FLAGSHIP CROPS AND OTHER CROPS (AREA, PRODUCTION&INCOME**  
**(BEFORE CDP IMPLEMENTATION)**

**Table 22: (Kharif and Rabi Season)**

Flagship Crops				Cereal Crop					Other Crops (Fodder)					Total		
Crop	Area (ha)	Production(qt)	Income	Crop	Area(ha )	Productio n(qt)	Produc tivity (qt/ha)	Income	Crop	Area( ha)	Production( qt)	Produc tivity (qt/ha)	Income	Area(ha)	Product ion(qt)	Income in Rs)
Cauliflower	0.06	7.20	17280	Maize	0.1015	1.827	18.00	3580	Fodder	0	0	0	0	0.1615	9.027	20860
Potato	0.06	6.00	21000	Wheat	0.1015	1.80	17.70	3825	Fodder	0	0	0	0	0.1615	7.8.000	24825
				Maize	1.746	31.79	18.20	62280	Fodder	0.25	54	216	13500	1.9960	85.790	75780
				Wheat	1.796	28.73	16.00	61050	Fodder	0.20	40	200	8000	1.9960	68.730	69050
				Maize	7.3282	119.49	16.30	257640	Fodder	1.90	456	240	70000	9.2282	575.490	327640
				Wheat	7.4682	118.00	16.00	230821	Fodder	1.76	350	199	68000	9.2282	468.000	298821

### Income of Sub Project Before project implementation per ha

SN	Source	Before CDP Amount (in Rs)
1	Farming (Kharif Season )	424280/-
2	Farming (Rabi Season)	392696/-
3	Others	0
	<b>Total Income</b>	<b>816976/-</b>
	<b>Total Income per ha</b>	<b>71791/-</b>

### 3.2 Status of Crop Yield (Existing and Target as per MoD)

The productivity of Rabi and Kharif cereal is very low. Need critical interventions like irrigation, weed control and improved farming practices to achieve the targets as per MoD. Various training on Food grain productivity and vegetable cultivation are designed accordingly to address critical gaps. The detail of pre project area under cereal crops, vegetables along with target of yield as per MoD and % deficit yield is given below:

**Table No: 23 Crop detail Existing and Target as per MoD**

Sr.No.	Name of Crop	Area (in ha)	Pre-project yield (As per HHs) qt/ha	Targeted Yield (as per MoD) qt/ha	% deficit yield
1	Maize (Kharif)	9.17	18	27	33.30
2	Wheat (Rabi)	9.36	16	29	44.80
3	Cauliflower	0.06	120	235	48.90
4	Potato	0.06	100	200	50.00

(Source:HHS and MoD)

### 3.3 Information on identification of Flagship Crops for the Sub Project

Since the project is targeting to have strong market force by developing Agri- Business operators amongst the target farmers of project area, therefore, it is important to identify such crops which can be grown on large scale thereby yielding marketable surplus. To realize this, clusters of different crops are required to be identified and complete focus on proliferating best crop production and post production interventions so as to help farmers in realizing its best value.

In view of the above, project understands to strategize crop diversification approaches into two different levels. One is identification of most relevant crop in a season in term of Agro-climate suitability, already being under successful cultivation around the project area as well as existing marketing linkages, to be termed as **Flagship Crops** for the said sub project/ cluster while second thrust is upon general crop diversification by the farmers for local sale and consumption. Some more elaborations are as under:

1. Crops of commercial interest: Crop to be scaled at commercial level should be identified keeping in view the farmers' interest, agro-climatic suitability, and marketability and in line with the set of crops specified in MoD for the agro-climatic zone. This shall be leading us in undertaking FPO formation for each crop with the supporting interventions under the value chain and marketing component.
2. Crop for local retailing: Set of crops during different growing season, in village which are grown for domestic needs, local retailing, or wholesale at local APMC. This may also specify yearly plan of shifting area under food grains to area under high value crops. These crops may be in addition to those specified/identified under Point No.1, above.

On the basis of above understandings and discussion with the farmers and investigations into the farming scenario in the vicinity/panchayat/block/district of sub project following is observed: -

**Table:24 Major commercial crops grown in the vicinity/panchayat/block/district of sub project during different seasons**

Sr.No.	Crop Season	Major Crops being grown	Major key growers (Name, Address and Contact Number)		Major Marketing Channels
1	<b>Kharif</b>	Tomato, Cucurbits, Okra, Ginger, Colocasia  Onion, Garlic, Cole crops and Leafy vegetables	Tara Chand S/o Shiv Ram VPO Bharmoti	9418282267	Local Market, APMC Nadaun
2			Muni lal S/o Roshan lal VPO Rail	9418003780	
			Parmod Singh Pathania S/o Dutti Chand Vill Charuri P.O Faste	8626868535	
			Chand Kishore S/o Hari Singh Vill Dobbarkalan P.O Bara Kamal Kishore S/o Dharam Chand Vill Jamnoti P.O Gawalapather	7018755118 9882046371	
			Arjun Singh Guleria S/o Onkar Singh Guleria Vill Rajnopun P.O Dhaneta	9625122227	
			Anil Kumar S/o Lt. Dunnii Chand VPO Sera	9418167913	
			Sh. Malook Singh S/o Munshi Ram Vill Ludriyal P.O Fatehpur	8219307115	
			Sh. Ajeet Singh S/o Sh. Kanshi Ram VillNehr Po. Bara	9418566568	
			Manjeet Singh S/o Ishwar Dass VPO Sera	7000184655	
			Ramesh Chand S/o Kalali Ram VPO Kamlah	6230654669	

### 3.4 Farm Business Evaluation of the Sub Project Before Crop Diversification

**Table: 25 Pre-Project Cropping Pattern and value of produce (Kharif and Rabi season):**

#### A. Kharif Season

	Crops	Area (in ha)	Production (qt)	Productivity (qt/ha)	Value at base year (in Rs.)
i	Maize	9.17	153.107	16.70	323500
ii	Vegetables	0	0	0	0
iii	Tomato	0	0	0	0
	Cauliflower	0.06	7.2	120	17280
	Other Vegetables	0	0	0	0
iv	Pulses	0	0	0	0
v	oil seeds	0	0	0	0
vi	Fodder	2.15	510	237	83500
vii	Fruit Crops	0	0	0	0
viii	Others	0	0	0	0
	<b>Total</b>	<b>11.38</b>	<b>0</b>	<b>0</b>	<b>424280/-</b>

#### B. Rabi Season

Sr.No.	Crops	Area (in ha)	Production(qt)	Productivity(qt/ha)	Value at base year (in Rs.)
i	Wheat	9.36	148.53	15.87	295696
ii	Oats	0	0	0	0
iii	Vegetables	0	0	0	0
	Potato	0.06	6.00	100.00	21000
	Pea	0	0	0	0
	Cauliflower	0	0	0	0
	Other Vegetables	0	0	0	0
iv	Pulses	0	0	0	0
v	oil seeds	0	0	0	0
vi	Fodder	1.96	390	198.97	76000
vii	Fruit crops	0	0	0	0
viii	Others	0	0	0	0
	<b>Total</b>	<b>11.38</b>	<b>0</b>	<b>0</b>	<b>392696/-</b>

**Table No 26: Pre-Project Agriculture Assets and income thereof:**

<b>SN</b>	<b>Assets</b>	<b>No. of units</b>	<b>Usage (commercial)</b>	<b>Income (in Rs)</b>
1	Tractor	0	Nil	0
2	Power tiller (7 HP)	1	Self-use	0
3	Thresher	0	Nil	0
4	Chaff cutter	0	Nil	0
5	Power weeder	0	Nil	0
6	Sprayers	0	Nil	0
7	Sprinklers/Drip	1	Self-use	0
8	Poly House	0	Nil	0
9	Brush Cutter	0	Nil	0
10	Others			

**Table No 27: Income of Sub Project before project per ha (as per baseline survey)**

<b>S.N.</b>	<b>Source of Income</b>	<b>Amount (in Rs)</b>	<b>Remarks</b>
1	Farming (Crops)	<b>816976</b>	0
2	Livelihood activities	<b>0.00</b>	0
3	Other agro activities through Agri implements	<b>0.00</b>	0
4	Others	<b>0.00</b>	0
<b>Total Income (in Rs.)</b>		<b>816976/-</b>	0
<b>Income per ha (in Rs.)</b>		<b>71791/-</b>	0

### 3.5 SWOT ANALYSIS OF SUB PROJECT

The SWOT analysis was carried out through Group discussion for identification of problems and threats in crop diversification, which is as given below:

**Table28:** Strength, Weakness, Opportunity and Threat Analysis

Strengths	Weakness	Opportunity	Threats
<ul style="list-style-type: none"><li>(i) Farmers are well educated and eager to adopt new technologies.</li><li>(ii) The sub project falls under Sub Mountain sub-tropical Zone I and is suitable for vegetable cultivation.</li><li>(iii) Texture of soil is Sandy loam which is suitable for vegetable production.</li><li>(iv) Land holdings located close to the residential area.</li></ul>	<ul style="list-style-type: none"><li>(i) Assured Irrigation facilities are not available hence difficult to adopt farming sector enterprise on commercial scale.</li><li>(ii) Scattered and small land holdings.</li><li>(iii) Less involvement of youth in agriculture.</li><li>(iv) Low returns from Agriculture occupation.</li><li>(v) Labour Shortage.</li></ul>	<ul style="list-style-type: none"><li>(i) Crop diversification along with livelihood activities for uplifting of marginal farmers.</li><li>(ii) Support from agriculture extension services.</li><li>(iii) Providing farm machinery on cost sharing.</li><li>(iv) Programs to motivate youth and next generation for adopting farming sector enterprises.</li></ul>	<ul style="list-style-type: none"><li>(i) Stray cattle and wild life menace.</li></ul>

### 3.6 Timeline of Agriculture Related Events of the Village

- **1950-1970** Introduction of Dairy farming on subsistence scale.
- **1971-2000** Co-operative society established in village during 1980's, 40 years ago. Fertilizers and pesticides were introduced that led to enhanced productivity of crops.
- **2001-2015** High yielding variety seeds replaced the local varieties, Introduction of Tractor drawn cultivator started a new era of technological advancement in the village of Dakhol.
- **2016-Till date** Usage of draught animals has become obsolete because of introduction of power tiller and Tractor drawn Rotavator that has smoothed the process of crop cultivation.



**PLANS FOR  
SUBPROJECT  
DEVELOPMENT**

## **SECTION IV**

## 4. PLANS FOR SUBPROJECT DEVELOPMENT



### 4.1 Infrastructure Development Plan (IDP)

For construction of Minor Irrigation, FAR and catchment area treatment etc, site specific DPRs are prepared for the sub project which serve as road map for irrigation infrastructure development. For the sub project, irrigation assurance is designed to be provided on 11.38 ha of CCA through lift irrigation scheme to be constructed with an estimated cost of Rs. 53.99 lakhs. The perennial source of water is Kunah Khad which is a main drainage line in district Hamirpur.

In addition to the development of minor irrigation system the project assistance /support will be provided as per the fund provision to the beneficiaries individually or jointly to increase the crop productivity and crop diversification as under:

- a) Support of MIS- Drip, Mini sprinkler & Micro Sprinkler, WST (9 cum) and Booster Pump.
- b) Solar fencing for vegetable growing areas/ sub projects as per DOA guidelines.
- c) Solar PV panels to energise the machinery.
- d) Support to farmers for suitable farm machinery on cost sharing 50:50
- e) Provision of polyhouses of different sizes, low tunnels and walk in tunnels.
- f) Provision of plastic mulch, anti-hail net, shade net houses and method demonstration.

After getting assured irrigation facility in CCA, the support under above Activities (*a to f*) are very crucial for willing farmers to take up and scale up vegetable cultivation. Keeping in view the budget provisions under above activities, it is important that selection of beneficiaries will be done carefully and should be linked with area under vegetable cultivation/ crop diversification. The assessment of progress of crop diversification by candidate farmers may be based on the monitoring sheets for different seasons. The selection of farmers for infrastructure support and tentative plan(**Table No 21& Table No. 22**) is prepared after analyzing household data, PRA tools and discussion with the beneficiary farmers.

Criteria for Selection of farmers for Infrastructure Development Support:

**First Stage:** Initially advance farmers and some intermediate farmers can be considered for assistance for infrastructure support.

**Second Stage:** On the basis of crop diversification of first/ Second cropping season.

**Third Stage:** Third cropping season onwards till the project period, the project assistance to all eligible advanced farmers shall be considered.

(\*Note- The eligible advance farmers list shall be updated after every cropping season on the basis of crop diversification data after endorsement by the general house of KVA for considering assistance from second stage onwards.

#### **4.1.1 Before Project Status of Infrastructure:**

As per field visits and meetings with farmers, only one farmer is cultivating vegetables and irrigation water is available through personal pumping unit at sub project. Remaining farmers are dependent on rains for their crops. The data regarding available assets collected and consolidated in below mention table

**Table 29: Available Assets**

<b>Sr. No.</b>	<b>Assets</b>	<b>No. of farmers who own these assets</b>	<b>No. of farmers who use these assets</b>	<b>Remarks</b>
1	WST- 9 & above cum capacity	1	1	
2	MIS system: Drip/Sprinkler	1	1	
3	Pumping Unit	1	1	
4	Polyhouse	Nil	Nil	
5	Farm Machinery (Power tiller, 7 HP)	1	1	
6	Other	-	-	
(Source HHs)				

#### **4.1.2 Proposed Infrastructure Development for the Sub Project**

Assistance will be provided to farmers of Advance/ Intermediate category farmers as per their level of crop diversification. However general support on countering the labor issues in term of small farm equipment shall also be designed and extended to farmers irrespective of all categories. Detail of assistance to be provided by project on cost sharing basis is given below

**Table 30: Project Support for Infrastructure on cost sharing (Indicative):**

<b>Sr. No.</b>	<b>Project support for infrastructure</b>	<b>Unit</b>	<b>Name of the beneficiaries</b>
1	WST- 9 cum capacity	5 No.	
2	Pumping Unit 2/3 HP	5 No.	
3	Drip Irrigation System	5 Ha.	
4	Mini/Micro Sprinkler Irrigation System	Ha.	
5	Power Sprayer	3 No.	
6	Fencing	Rmt.	
7	Farm Machinery	No.	Shambhu Ram S/O Munshi Ram (Tool Kit) Ajay s/o Thakur Dass (Tool Kit & Maize Sheller)

8	Mulching Sheet	400 Sq. m.	
9	Poly Tunnel 40 sqm	1 No.	Divender S/o Sh. Banku Ram
10	Poly house 105 sqm	1 No.	
11	Solar Photo Voltic System	1 Kw	
12	Other aesthetic value-added structures (community ponds/landscaping units, etc.)	No.	
	<b>Total</b>		

**4.1.3. Farmers' Selection for Infrastructure Support for Ist Stage on the basis of household survey**

**Table:31Detail of Farmer for Stage I**

Name of farmer	Category	Area under vegetables	Infrastructure needed	Remarks
Divender	Advance	0.12 ha	Poly Tunnel	--



## 4.2 Crop Diversification Plan (CDP)/Agriculture Development Plan (ADP)

Crop Diversification Plan should give the information on different focused groups primarily the advanced farmers, intermediate farmers, conservative farmers, and absentee farmers etc. The resources available for crop production and scaling up of crop diversification in the sub project area are summarized as under:

- Total Number of Cultivators- **35 No.** (farming families are interested in crop diversification). Out of them **6 No.** of families are interested in commercial vegetable cultivation along with cereal crops and remaining are interested in cultivation of cereal crops, kitchen gardening along with dairy activity.
- Area available for Cultivation **11.38 ha** which is taken for planning for crop diversification.
- Average landholding- **0.31 ha** is the average area per cultivator in the sub project.
- **56 No.** of Male and **60 No.** of Female farmers in the age group of 19- 60 are available for agriculture activities. Out of these few farmers are involved in daily wage labour, business or private/Govt job.
- **Target for Crop diversification (Vegetable area Kharif and Rabi season) – 3.5 ha (to be achieved in 3 years)**

**Target for Flagship Crop – 1.5 ha** (Kharif -1 ha and Rabi – 0.5ha): After studying the farming situation in the vicinity and in the jurisdiction of BPMU following crops are suitable for scaling up as flagship crop for the sub project. Detail of farmer expertise in production and marketing as enumerated vide **Point No 4.3** above shall be helpful in capacitating the farmers in crop production and linking with the existing marketing arrangements accordingly.

<b>Crop Priority</b>	<b>Kharif Season</b>	<b>Rabi Season</b>
1 <sup>st</sup>	Cucumber	Onion
2 <sup>nd</sup>	Okra	Potato
3 <sup>rd</sup>	Tomato	Garlic

**Target for general crop diversification- 2 ha** (Kharif – 1.5 ha and Rabi- 0.5 ha): General Crop diversification shall primarily focus on capacitating farmers to adopt large number of crops across the different cropping season to not only grow to sell in the vicinity including local APMC market yards but also to meet with the demand of their household/self-consumption there by ensuring good nutrition for the family while saving the money on purchasing the same from the market.

<b>Crop Priority</b>	<b>Kharif Season</b>	<b>Rabi Season</b>
Vegetables	Bottle gourd, Bitter gourd, Brinjal, Chilly, Sponge gourd	Coriander, Spinach
Fruit crops	-	-
Flower crops	-	-
Root crops	-	Raddish, Beet Root, Turnip
Leguminous crops	Beans	Pea
Spice crops	Turmeric	-
Tuber crops	Ginger, Colocasia	Potato
Coarse cereal	-	-

In this sub project, out of total number of 35 cultivators majority of the farmers are having conservative approach towards the crop diversification. However, most of them grow vegetables in **kitchen garden** sort of arrangement for daily need that too primarily in rainy season. Out of total, only one farmer has been identified as advance farmers while five as intermediate farmers. All of them commit to undertaking commercial farming in line with the project outputs.

In view of this the project will start work on flagship crops with these six advance/ intermediate farmers initially, and after successful demonstration of the same, area expansion along with migration of other category farmers to the advance farmer category shall be ensured.

In addition to this, the project shall work to mobilize all the families in adopting well planned crop diversification for retailing and domestic needs.

The following Crop diversification plan / Agricultural development plan has been prepared for next three years after discussion with the farmers

#### **RABI SEASON:**

- ❖ Crop Diversification Plan / Agriculture Development Plan( Rabi Season) ( Refer :Table 32)

- ❖ Category wise Farmerwise Existing crop details (**Before CDP Implementations**) **Attachment 1**
- ❖ Category farmers wise planning for CDP implementation (Rabi Season) **Attachment III**
- ❖ Category-wise Crop Diversification Monitoring Plan(Rabi Crops) **Attachment V**

### **KHARIF SEASON:**

- ❖ Crop Diversification Plan / Agriculture Development Plan (Kharif Season) ( Refer :**Table 33**)
- ❖ Category wise Farmerwise Existing crop details (**Before CDP Implementation**) **Attachment II**
- ❖ Category farmers wise planning for CDP implementation (Kharif Season) **Attachment IV**
- ❖ Category-wise Crop Diversification Monitoring Plan( Rabi Crops) **Attachment VI**
- ❖ Abstract of Category-wise Cropped Area, Production and Income after Project Intervention ( Kharif and Rabi Season) (**Refer Table:26**)
- ❖ Crop Schedule for Flagship and General Crops. **Attachment VII**

Table : 32Crop Diversification Plan/Annual Agricultural Development Plan and Progress After Completion of Construction in Rabi Season

Sub-Project	Dakhol			District	Hamirpur	Block	Hamirpur		Staff in charge							
CCA	11.3853 ha			No. of Custodian	46	No. of Cultivators	35		Date							
Existing condition				Proposed plan after construction												
( 2022-23 )				1st year (2023-24) 1st Season				2nd year (2024-25) 3rd Season				3rd year (2025-26) 5th season				
Crops	Area (Ha)	Unit Yield (ton/ha)	Production (ton)	Crops	Area (Ha)	Unit Yield (ton/ha)	Production (ton)	Crops	Area (Ha)	Unit Yield (ton/ha)	Production (ton)	Crops	Area (Ha)	Unit Yield (ton/ha)	Production (ton)	
Cereal Crops				Cereal Crops				Cereal Crops				Cereal Crops				
Wheat (TS)	9.36	1.59	14.85	Wheat (TS)	9.13	2.5	22.825	Wheat (TS)	7.47	2.7	20.169	Wheat (TS)	6.04	2.9	17.516	
Vegetable	0.06	10	0.6	Flagship Crops				Flagship Crops				Flagship Crops				
Fodder	1.96	19.9	39	Onion	0.3	12	3.6	Onion	0.55	12	6.6	Onion	0.69	15	10.35	
<b>Total</b>	<b>11.38</b>	<b>11.4</b>	<b>54.45</b>	Potato	0.2	15	3	Potato	0.52	18	9.36	Potato	0.58	20	11.6	
				Garlic	0.2	8	1.6	Garlic	0.46	8.2	3.772	Garlic	0.72	8.5	6.12	
				General Crops				General Crops				General Crops				
				Leafy Vegetables	0.2	8.2	1.64	Leafy Vegetables	0.32	8.6	2.752	Leafy Vegetables	0.73	9.3	6.789	
				Cauliflower	0.1	18	1.8	Cauliflower	0.26	20	5.2	Cauliflower	0.72	23.5	16.92	
				Oil Seed (Mustard/Toria)	0.25	0.8	0.2	Oil Seed (Mustard/Toria)	0.3	0.8	0.24	Oil Seed (Mustard/Toria)	0.4	0.9	0.36	
				Fodder (Barseem)	1	25	25	Fodder(Barseem)	1.5	32	48	Fodder (Barseem)	1.5	40	60	
				<b>Total</b>	<b>11.38</b>	<b>89.5</b>	<b>59.665</b>	<b>Total</b>	<b>11.38</b>	<b>102.3</b>	<b>96.093</b>	<b>Total</b>	<b>11.38</b>	<b>120.1</b>	<b>129.655</b>	

Table : 33Crop Diversification Plan/Annual Agricultural Development Plan and Progress After Completion of Construction in Kharif Season

Sub-Project	Dakhol			District	Hamirpur	Block	Hamirpur		Staff in charge										
CCA	11.3853 ha			No. of Custodian	46	No. of Cultivators	35		Date										
Existing condition				Proposed plan after construction															
( 2022-23 )				1st year ( 2023-24 ) 2nd Season				2nd year ( 2024-25 ) 4th Season				3rd year ( 2025-26 ) 6th season							
Crops	Area (Ha)	Unit Yield (ton/ha)	Production (ton)	Crops	Area (Ha)	Unit Yield (ton/ha)	Production (ton)	Crops	Area (Ha)	Unit Yield (ton/ha)	Production (ton)	Crops	Area (Ha)	Unit Yield (ton/ha)	Production (ton)				
Cereal Crops				Cereal Crops				Cereal Crops				Cereal Crops							
Maize (TS)	9.17	1.67	15.31	Maize	9.26	2	18.52	Maize	8.76	2.4	21.024	Maize	6.16	2.7	16.632				
Vegetable	0.06	12	0.72	Flagship Crops				Flagship Crops				Flagship Crops							
Fodder	2.15	23.72	51.00	Cucumber	0.2	13.4	2.68	Cucumber	0.3	16.2	4.86	Cucumber	0.73	20	14.6				
<b>Total</b>	<b>11.38</b>	<b>37.39</b>	<b>67.03</b>	Tomato	0.3	29	8.7	Tomato	0.3	34.6	10.38	Tomato	0.54	40	21.6				
General Crops								General Crops				General Crops							
Okra	0.1	10.9	1.09	Okra	0.12	11.2	1.344	Okra	0.7	12	8.4	Ginger	0.12	10	1.2				
Ginger	0.12	10	1.2	Ginger	0.15	15	2.25	Ginger	0.7	18	12.6	Colocasia	0.15	15	2.25				
Colocasia	0.15	15	2.25	Colocasia	0.2	17.9	3.58	Colocasia	0.75	20	15	Oil Seed (Sesamum)	0.25	0.95	0.2375				
Oil Seed (Sesamum)	0.25	0.8	0.2	Oil Seed (Sesamum)	0.25	0.95	0.2375	Oil Seed (Sesamum)	0.3	1	0.3	Fodder (Sorghum)	1	32	32				
Fodder (Sorghum)	1	32	32	Fodder (Sorghum)	1.3	41	53.3	Fodder (Sorghum)	1.5	45	67.5	<b>Total</b>	<b>11.38</b>	<b>113.1</b>	<b>66.64</b>				
				<b>Total</b>	<b>11.38</b>	<b>139.25</b>	<b>96.98</b>	<b>Total</b>	<b>11.38</b>	<b>158.7</b>	<b>156.632</b>								

## ABSTRACT OF CATEGORYWISE AREA AND PRODUCTION (AFTER CDP IMPLEMENTATION)

**Table 34: Abstract of Category-wise Cropped Area and Production after Project Intervention(Kharif and Rabi Season)**

Category of farmer	Flagship Crops				Cereal Crop				Other Crops				Total			Remarks
	Crop	Area(ha)	Production(qt)	Income	Crop	Area(ha)	Production(qt)	Income	Crop	Area(ha)	Production(qt)	Income	Area(ha)	Production(qt)	Income	
A																
B																
C																

(Note: To be filled after the cropping season)

### Income of Sub Project After project implementation per ha

SN	SOURCE OF INCOME	After CDP Amount(in Rs)
1	Farming (Crops)	-
2	Livelihood activities	-
3	Other agro activities through Agri implements	-
4	Service Sector	-
5	Others	-
<b>Total Income per ha</b>		-

**Category wise monitoring of Kharif and Rabi season will be done every year as per the above mention Tables. Category of farmers will change as per their level of crop diversification.**



### 4.3 Value Chain and Market Development Plan (MDP)

Defective crop planning, forced sale, inadequate storage facilities, lack of market information, superfluous middlemen and inadequate processing facilities are prominent problems of Agriculture Marketing in the target area. The farmer need to upgrade the skills on producer cum seller in domestic and distant market.

**The farmers need to know answer to questions like:**

- What to produce?
- When to produce?
- How much to produce?
- Value addition strategies?
- When and where to sell?
- At what price and to whom to sell?

Therefore, the production technology as well as market-oriented knowledge will be provided to farmers by the project. Existing and Proposed value chain for the vegetable crops and market development plan is as under.

**Table 35: Existing Value Chain and Market Development Plan of Sub Project**

S.No	Name of Produce	Quantity of Produce (qt)	No of farmers selling produce	Qty for Sale ( qt)	Marketing Channel	Value added products
1	Wheat	150.02	5	11	Local Purchaser/ Vendors	Ceera, Wheat flour, Animal feed
2	Maize	121.32	5	9	Local Purchaser/ Vendors	Flour, Animalfeed
3	Colocasia	Self-	Kitchen garden	-	-	Patrode,

		consumption	by 30 farmers			Raw as vegetable
4	Ginger					Dry ginger powder, Raw ginger, Pickle
5	Turmeric					Dry turmeric powder
6	Mango		-	-	-	Pickle, Chutney, jam, dry mango powder
7	Lemon		-	-	-	Pickle, Squash, Chutney
8	Aonla		-	-	-	Pickle, Chutney, Candy
9	Vegetables (Raddish, Cauliflower)	Kitchen garden by 30 farmers	-	-	-	Mix Pickle
10	Pulses		-	-	-	Nuggets

The planning of crops is done based on market demand and project activities range from production stage, pre/post harvesting stage, processing stage, distribution to retailing stage. After achieving the required level of area and production of flagship and other vegetable crops, motivate farmers to aggregate various producers into FIG and clusters with the vision to collective viable clusters into F.P.O. to gain from economies of scale and better risk management.

In view of this value chain of different flagship and general crops is given below:

**Table 36: Detail of value chain of Flagship and general vegetables**

Crop	Approx. time of Harvest	Value Chain
<b>Tomato</b>	June- Sept	Harvesting – Washing- Processing(Ketchup, Tomato Puree etc.)-Marketing- Storage
<b>Cucumber</b>	Mid-April- July	Harvesting- Washing- Grading- Marketing-
<b>Onion</b>	May -June	Harvesting-Grading-Marketing- Storage
<b>Potato</b>	Nov / March	Harvesting – Washing- Processing(Chips etc.)- Marketing- Storage

<b>Garlic</b>	April-May	Harvesting -Processing(Garlic paste)-Marketing- Storage of bulb in case of bulk produce
<b>Turmeric</b>	April-May	Harvesting – Washing- Processing(Turmeric powder)-Marketing- Storage

**Table 37: Proposed Value Chain and Market Development Plan of Sub Project after CDP Implementation**

S.No	Name of Produce	Quantity of Produce (qt)	No of farmers selling produce	Qty for Sale ( qt)	Marketing Channel	Value added products
<b>Flagship Crops</b>						
1	Cucumber	146	20	100		
2	Tomato	216	22	120		
3	Onion	103.5	12	50		
4	Potato	116	7	65		
6	Cauliflower	169.2	18	100		
<b>Cereal Crops</b>						
1	Wheat	175.16	8	60		
2	Maize	166.32	14	100		

#### **4.4 Capacity Development Plan for implementing CDP:**

Areas of training/ capacity building: (Activities will be planned at different levels of project activities i.e before and after construction)

- Orientation and Need Assessment
- Training on farm economy management, preparing crop calendar and production plan based on market demand.
- Training and method demonstration on flagship crops and other vegetable/ cereals.
- Training on food grain productivity including method demonstration
- Assistance on suitable farm machinery
- Support on critical farm inputs like MIS/WST/Seeds. Mulching sheet etc as per MoD and budget provisions.



## 4.5 Livelihood Development Plan (LDP):

Specific livelihood improvement support under on-farm/off-farm activities and service sector activities will be provided to the vulnerable families under the project. During PRA activity and household survey 7 No of vulnerable families already identified as BPL families and 5 No farming family having very less land holding and less income from all sources. They will be supported for livelihood activities as per budget provision in order of preference in consultation with KVA and likely beneficiaries. The following farming families were categorized for livelihood support activities. The categorized farmers gave their preference for different livelihood support activities.

### Reference of activities as per MoD:-

Dairy farming

Mushroom Cultivation

Bee-keeping

The detail of beneficiary and suitable livelihood activity in order of preference is summarized as under:

**Table 38:Priority wise detail of farmers interested towards livelihood activities**

S.N	Name of farmer	HPCDP FRN	First Priority	Second Priority	Third priority	Remarks
1	Raghunath S/O Brahma(BPL)	D-11	Mushroom cultivation	Dairy Farming	-	
2	Roop Lal S/o Nikkaram (BPL)	D-20	Mushroom Cultivation	Dairy Farming	-	-
3	Amar Nath S/O Munshi Ram	D-7	Mushroom Cultivation	-	-	-
4	Ratan Chand S/O Brahma	D-10	Mushroom Cultivation	Dairy farming	-	-
5	Subhash Chand S/O Roshan Lal	D-15	Mushroom Cultivation	-	-	-
6	Sunil Kumar S/O Khayali ram	D-45	Mushroom Cultivation	Dairy Farming	-	-
7	Rakesh Kumar S/O Brahma	D-12	Mushroom Cultivation	-	-	

(Source: PRA Exercise)

**Final list of farmers selected for Livelihood Programme as per criteria of project**

S.N	Name of farmer	HPCDP FRN	First Priority	Second Priority	Third priority	Remarks
1	Raghunath S/O Brahmu( BPL)	D-11	Mushroom cultivation	Dairy Farming	-	
2	Roop Lal S/o Nikka ram (BPL)	D-20	Mushroom Cultivation	Dairy Farming	-	-

**Service Sector:**

The service sector encompasses a wide range of economic activities that involve the provision of intangible goods or services to customers. It includes ***motor repair, driving farm machines, band party, tailoring, electrician, plumbing*** in HDPE and Irrigation related pipeline repair(Based on List of beneficiaries selected in PRA and KVA General House)

**Table 39: Detail of farmers interested towards Service Sector Activities for Livelihood Support**

S.N	Name of farmer	HPC DP FRN	Present Status of occupation	First Priority	Second Priority	Third priority	Rema rks
1	Ankush S/O Raghunath ( BPL)	D-11	Electrician	Learner Electrician	-	-	-
2	Vinod S/O Madan Ram	D-37	Electrician and painter	Learner Electrician	Painter		-
3	SomDutt S/O DevRaj	D-23	Plumber	Plumber	Electrician	-	-
4	Lalita W/O Roop Lal Sharma	D-20	Tailor (self/ within village)	Tailoring	Beautician	-	-
5	Jyoti Sharma W/O Ajay Kumar	D-18		Tailoring	-	-	-
6	Sonu W/O Ankush	D-11		Tailoring	-	-	-
7	Palavi W/O Vinod Kumar	D-37		Tailoring	Beautician	-	-

8	Sunita Devi W/O Rajesh Kumar	D-12		Tailoring	-	-	-
9	Meena Sharma S/O Sanjay Kumar	D-9		Tailoring	-	-	-
10	Rekha Devi W/O Sunil Kumar	D-45		Tailoring	-	-	-
11	Rekha Sharma D/O Naval Kishor	D-38		Tailoring	-	-	-
12	Shalini Sharma D/O Manohar Lal	D-33		Tailoring	-	-	-
13	AnjanaKumari W/O Ravi Kumar	D-16		Beauty Parlor ( local)	Beautician	Tailoring	-

(Source: PRA Exercise)

#### Final List of farmers selected for Livelihood Programme as per criteria of project

S.N	Name of farmer	HPC DP FRN	Present Status of occupation	First Priority	Second Priority	Third priority	Remarks
1	Ankush S/O Raghunath ( BPL)	D-11	Electrician	Learner Electrician	-	-	-
2	Vinod S/O Madan Lal	D-37	Electrician and painter	Learner Electrician	Painter		-
3	Lalita W/O Roop Lal Sharma	D-20	Tailor ( self/ within village)	Tailoring	Beautician	-	-

#### 4.4.1 Capacity Development Plan for implementing CDP:

- Areas of training/ capacity building: (Activities will be planned at different levels of project activities i.e. before and after construction)
- Orientation and Need Assessment

- Training on farm economy management, preparing crop calendar and production plan based on market demand.
- Training and method demonstration on flagship crops and other vegetable/ cereals.
- Training on food grain productivity including method demonstration
- Assistance on suitable farm machinery
- Support on critical farm inputs like MIS/WST/Seeds? Mulching sheet etc as per MoD and budget provisions.
- Other trainings

## “Summary of Plan for the Sub Project Dakhola by the HPCDP Team”

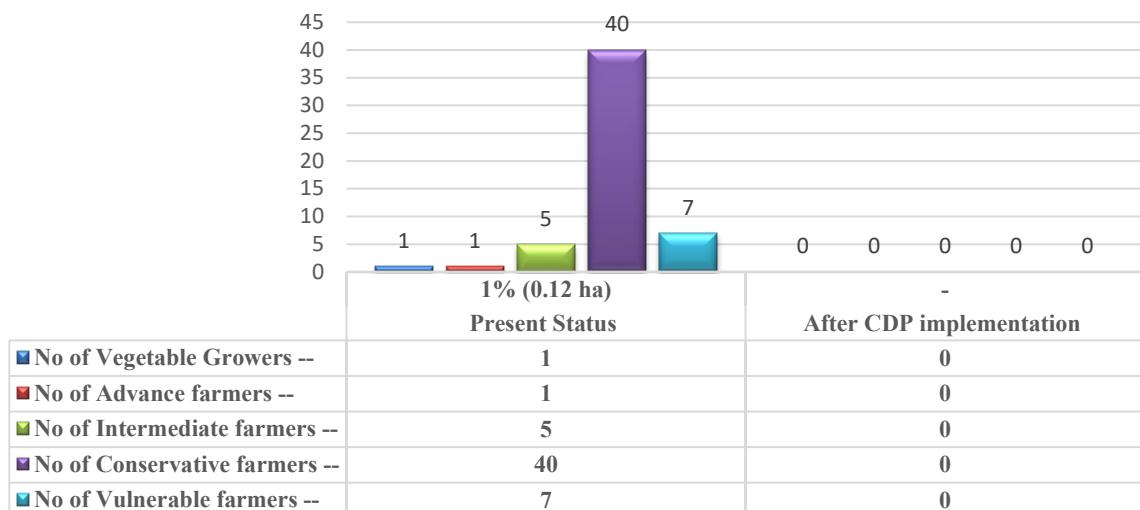
### **Present Status of sub project and Outcomes to key monitoring indicators:**

To assess the success or impact of the project interventions, it is necessary to gather actual data on the current status w.r.t to key monitoring indicators. This would involve measuring the actual yield levels, household income, No. of farmers under different categories before and after the project interventions.

**Table:30 Status of Sub project and Target as per MoD**

Sr.No.	Particulars	Target as per MoD	Present Status	After CDP implementation (1st cropping Season)
1	Area diversified under vegetable crops	More than 30 %	1% (0.12 ha)	0
2	No of Vegetable Growers	0	1	0
3	No of Advance farmers	0	1	0
4	No of Intermediate farmers	0	5	0
5	No of Conservative farmers	0	40	0
6	No of Vulnerable farmers	0	7	0
7	No of farmers under Livelihood Activities	0	0	0
8	Gross Agriculture Income (in Rs.per ha)	2,50,000/-	68600/-	0

### **Present Status of Sub Project**



## Plan for the Sub Project Dakhol by the HPCDP Team

### ⊕ Plan to achieve the Project Targets:

- ❖ Developing infrastructure facilities at sub project as per creation of production infrastructure facilities in sub project as per DPR.
- ❖ Implementation of SDP (Sub Project Development Plan)
- ❖ **Crop Diversification Plan:** -

Detail of Flagship crops identified, general crops, production, and productivity for the sub project after the implementation of Crop Diversification Plan. The CDP/ADP plan is proposed for three years (6 cropping season) and abstract of area, production, productivity, and number of farmers is given below:

### Crop detail Existing and Target as per MoD

Sr.No.	Name of Crop	Area (in ha)	Pre-project yield (As per HHs) qt/ha	Targeted Yield (as per MoD) qt/ha	% deficit yield
1	Maize (Kharif)	9.17	18	27	33.30
2	Wheat (Rabi)	9.36	16	29	44.80
3	Cauliflower	0.06	120	235	48.90
4	Potato	0.06	100	200	50.00

### PLAN FOR KHARIF SEASON (3 years)

Name of crop (Kharif Season)		Proposed Area (in ha)	Tentative No of farmers/ growers
Cereal Crop	Maize	6.16	35
Flagship Vegetable Crop	Cucumber, Tomato	1.27	8
General Crops	Okra, Ginger, Colocasia	3.95	13

## PLAN FOR RABI SEASON

Name of crop (Rabi Season)		Proposed Area (in ha)	Tentative No of farmers/ growers
Cereal Crop	Wheat	6.04	35
Flagship Vegetable Crop	Onion, Potato, Garlic	1.99	10
General Crops	Leafy vegetables, cauliflower	3.35	15

### ❖ Livelihood Plan:

Activity	Ist Priority (No. of Families)	IIInd Priority (No. of Families)	IIIrd Priority (No. of Families)
Dairy Farming	0	2	0
Mushroom Cultivation	2	0	0
Bee keeping	0	0	0
Back yard Poultry	0	0	0
<b>Service Sector</b>			
Electrician	2	0	0
Plumber	1	0	0
Tailor	1	0	0
Parlour	0	1	0

\* ..... \*