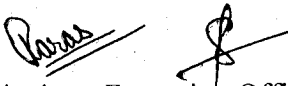
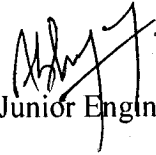


Certificate

It is certified that the Sub-project Development Plan for Flow Irrigation Scheme Choo Nala Kunal has been rectified and finalized after the necessary compliance to the observations/comments raised by PMC Experts same has been updated in the Google sheet. The compliances to observations/comments raised by PMC Experts are being enclosed as per Annexure-1.



Agriculture Extension Officers



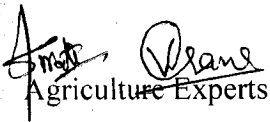
Junior Engineer



Agriculture Officer



Construction Engineer



Agriculture Experts



Block Project Manager

Annexure-I**The observations/ comments raised by PMC Experts in SDP for FIS Choo nala and their complaine**

Sr. No.	Section/ Table/ Paragraph	Observations raised	Complaine	Remarks
1	Table 1	Check Irrigation Intensity (Existing)	Checked and rectified	
2	Table 1	Calculate Baseline crop Diversification Index	Calculated	
4	Table 14 (B)	Check total number of custodians and their area	Checked and rectified	
5	Table 16	Put Value of milk at base year (Rs.)	Provided	



DEPARTMENT OF AGRICULTURE HIMACHAL PRADESH



SUB PROJECT DEVELOPMENT PLAN (SDP)

FIS ChooNala Kuhal



Block Project Management Unit: Palampur
District Project Management Unit: Palampur

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

SUB PROJECT DEVELOPMENT PLAN

FOREWORD

SUB PROJECT DEVELOPMENT PLAN in Himachal Pradesh Crop Diversification 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. Rajesh Kumar
District Project Manager

SUB PROJECT DEVELOPMENT PLAN

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 due to the Dr. Yoginder Pal DPD, PMC Expert Dr. PL Sharma, Dr. Rajesh kumar DPM Kangra, Dr. Rajneesh Kumar SMS and other staff of BPMU Palampur for their valuable inputs in drafting this document. Gratitude is also due to Extension Officers of BPMU for their valuable contributions in finalizing the 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.

Dr. Amit Bhushan
BPM Palampur

SUB PROJECT DEVELOPMENT PLAN

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**SUB PROJECT
INFORMATION**

SECTION I

SUB PROJECT DEVELOPMENT PLAN

Sub Project Development Plan

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

Date of approval of SDP by KVA :.....

Date of approval of SDP by DPMU:.....

Key team members who facilitated the Preparation of SDP :-

Sr.No	Name of Team Members	Remarks
1	Mr. Amit Bhushan	Block Project Manager Palampur, Masters in Vegetable Science, CSKHPKV Palampur
2	Mr. Jitender Kumar	Agriculture Development Officer, Masters in Soil Science and Soil Physics, CSKHPKV Palampur
3	Mr. Vikrant Rana	Agriculture Expert, Masters in Seed Science and Technology, CSKHPKV Palampur, Working in HPCDP JICA ODA Phase II, Palampur (H.P) with experience of seven years.
4	Mrs. Swati Sood	Agriculture Expert, Masters in Agronomy, CSKHPKV Palampur, Working in HPCDP JICA ODA Phase II, Palampur (H.P), with experience of six years.
5	Ms. Disha Patial	Agriculture Officer, Masters in Soil Science and Agricultural Chemistry, CSKHPKV Palampur, Working in HPCDP JICA ODA Phase II, Palampur (H.P), with experience of two years
6	Mr. Shivam Sood	Agriculture Extension Officer, Masters in Seed Science and Technology, CSKHPKV Palampur, Working in HPCDP JICA ODA Phase II, Palampur (H.P)

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 irrespective to 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 valued land ownership.

These farmers are basically not so positive 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. There are the potential beneficiaries who adopt crop diversification immediately after observe the good result at the fields of advanced farmers.

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

SUB PROJECT DEVELOPMENT PLAN

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 farmer 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 information 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 few 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 they 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 for bottom to up farmers 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 as per the approved list of various groups of farmers by KVA and farmers will be rationalized by the project on the basis of performance of different categories of farmers at particular sub project.

SUB PROJECT DEVELOPMENT PLAN

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 sub-project comprises of 38.41 Ha GCA and 32.45 Ha CCA and farmers from only two villages i.e. Sagoor & Chaabaan have ownership of said land.

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

(a) Introduction of Krishak Vikas Association (KVA)

1. **Name of KVA:** Krishak Vikas Association Choonala Kuhal, Tehsil Baijnath, Block Panchrukhi, District- Kangra.
2. **Date of KVA Formation:** 16.12.2021
3. **Date of KVA Registration:** 22.03.2022
4. **KVA Registration No:** 20/SDB/MC
5. **No. of MC Members:** 11


कार्यालय रजिस्ट्रार सोसायटीज, उपमण्डल बैजनाथ
जिला कांगड़ा, हिमाचल प्रदेश - 176125



प्रमाण-पत्र

क्रम संख्या : 20/SDB/MC दिनांक : 22-03-2022

यह प्रमाणित किया जाता है कि (सोसायटी का नाम) कृषक विकास
सोसायटीज हू नाला गांव सगूर
डाकघर सगूर, तहसील बैजनाथ, जिला कांगड़ा, हि. प्र. को हिमाचल प्रदेश
सोसायटी पंजीकरण अधिनियम, 2006 (2006 का 25) के अधीन दिनांक 22-03-2022
को पंजीकृत कर दिया गया है।



मोहर

रजिस्ट्रार
सोसायटीज
उपमण्डल (कैलाशगढ़)

SUB PROJECT DEVELOPMENT PLAN

(b) Detail of Management Committee (KVA)

Date of Formation: 16.12.2021

Tenure of Management Committee -3 years

S.N .	Name of Farmer	Name of Father/ Husband	HPCDP Family Reg. No.	Designation	Address	Photographs
1	Sh. Vinod Kumar	S/o Sh. Punnu Ram	P290-PLP- Choonala-	President	V.P.O Sagoor Teh. Baijnath, Distt. Kangra (H.P.)	
2	Sh. Raj Kumar	S/O Sh. Gorakh Ram	P290-PLP- Choonala-	Vice-President		
3	Sh. Desh Raj	S/o Sh. Rikhi Ram	P290-PLP- Choonala-	Secretary		
4	Smt. Pinki Devi	W/O Sh. Vineet Kumar	P290-PLP- Choonala-	Cashier		
5	Smt. Sapna Devi	W/o Sh. Ramesh Kumar	P290-PLP- Choonala-	Member		
6	Sh. Vijay Kumar	S/O Sh. Suraj Ram	P290-PLP- Choonala-	Member		
7	Smt. Kamlesh Kumari	W/o Sh. Balbir Singh	P290-PLP- Choonala-	Member		
8	Sh. Kamar Singh	S/o Sh. Govind Ram	P290-PLP- Choonala-	Member		
9	Sh. Vikram Chand	S/o Sh. Murli Ram	P290-PLP- Choonala-	Member		
10	Sh. Manohar Lal	S/o Sh. Bikham Chand	P290-PLP- Choonala-	Member		
11	Sh. Vijay Kumar	S/o Sh. Pritam Chand	P290-PLP- Choonala-	Member		

SUB PROJECT DEVELOPMENT PLAN

Willingness of Community:

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

Affidavit attached

भारतीय गैर न्यायिक
दस
रुपये
रु.10
TEN RUPEES
Rs.10
INDIA NON JUDICIAL
HIMACHAL PRADESH
20AA 930310

Collective Affidavit of Willingness for Irrigation Scheme
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 Flow Irrigation Scheme Choo Nala, Village Sagoor, Post Office Sagoor, Block Barkhuti, District Kangra, 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 Flow Choo Nala Irrigation Water Plan which is directed by PMU of HPCDP with the help of Japan International Cooperation Agency;

2. We will not have any objection and will not provide any obstruction at the site place where construction work of Head Weir/Diversion wall, Super passage, retaining walls, irrigation channels, outlets, path crossings and other necessary structures/components of flow irrigation scheme in farmers' land are to take;

3. We all farmer will provide full support to any Person/Agency/ Krishak Vikas Association (KVA) of PMU of HPCDP for Irrigation Schemes 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 Flow Irrigation Scheme Choo Nala Water Plan we, all beneficiary farmers, identified by Sof. KVA Choo Nala Krishak Vikas Association will provide full support to Management Committee for the operation of all the components of the Flow irrigation scheme and also we, all beneficiary farmers, will be responsible for maintenance of whole irrigation scheme components;

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

Sl. No	Name	Father's Name/ Husband's Name	Farmer's Signature
1	Vinod Kumar	Sh. Purnu Ram	<i>[Signature]</i>
2	Raj Kumar	Sh. Gopal Ram	<i>[Signature]</i>

SG8
2/10/2023 20
Krishak Vikas Association
Flow Choo Nala
The Shree Saad.

SUB PROJECT DEVELOPMENT PLAN

No.	Name of Farmer	Father's/Husband's Name	Signature
	नरसी देवी	w/o उमेश कुमार	नरसी देवी
	रमणी देवी	w/o रमेश कुमार	Sapana
	देवी देवी	w/o विजय कुमार	Devi Devi
	सारदा देवी	w/o सुभाष चन्द	सारदा देवी
	मीनू देवी	w/o विनाय कुमार	Meenu Devi
	सुदर्शना देवी	w/o प्रकाश चन्द	सुदर्शना देवी
	मरिश्मा देवी	w/o सुनील कुमार	Kaishima
	रेशमा देवी	w/o उमेश चन्द	रेशमा देवी
10	पिंकी देवी	w/o विनीत कुमार	Pinku
11	मानता देवी	त्रिलोक चन्द	मानता देवी
12	मान चन्द	राम सिंह	मान चन्द
13	सोनिका	w/o ओमकार चन्द	Sonika Devi
14			
15	Vand Kumar	Sh. Purnu Ram	Vand
16	Vijay Kumar	Sh. Ram Singh	Vijay
17	Rajendra Kumar	Sh. Phary Ram	Rajendra Kumar
18	Desh Raj	Sh. Purnu Ram	Desh Raj
19	Subhesh C.	Sh. Purnu Ram	Subhesh
20	Rohjan Lal	Sh. Rohan Singh Ram	Rohjan
21	Purnodh Singh	Sh. Mahesh Ram	Purnodh Singh
22	Lettem C.	Sh. Lettem C.	Lettem
23	Tri Lok C.	Sh. Nand Ram.	Tri Lok
24	Sandeep	Sh. Jagdish C.	Sandeep

SUB PROJECT DEVELOPMENT PLAN

Sr. No.	Name of farmer	Father's/Husband's Name	Signature
24	Monu Kumar	Sho Kester Singh	मोनु कुमार
25	Ajay Kumar	Sho Ram Singh	अजय कुमार
26	Punjab Singh	Sho Naraj Ram	Punjab Singh
27	Hastiyon Singh	Sho Naraj Ram	होमिया राम सिंह
28	Prakash Ch	Sho Bistaw Ram	प्रकाश चन्द
29	Nimo Devi	W/o Rakesh Kumar	Nimo
30	Batam Devi	W/o Mehar Singh	भूटल देवी
31	Raj Kumar	Sho Bihari Lal	Raj Kumar
32	Ajay Kumar	Sho Pigen Ch	
33	Vikram Ch	Sho Murali Ram	विक्रम चन्द
34	Urmila Devi	W/o Kulwant Singh	उर्मिला देवी
35	Satish Kumar	Sho Vikram Ch	सतिश कुमार
36	Sashi Kumar	Sho Anwar Singh	शशि कुमार
37	Rajesh Kumar	Sho Chela Ram	राजेश कुमार
38	Rasender Kumar	Sho Meshon Singh	रसैन्दर कुमार
39	Panta Ram	Sho Pigen Ram	पन्तराम
40	Rajam Kumar	Sho Diwan Ch	राजम कुमार
41	Ravi Kumar	Sho Shon Singh	रवि कुमार
42	Ranjod Singh	Sho Diwan Ch	रंजोद सिंह
43	Kashin Singh	Sho Diwan Ch	काशीन सिंह

SUB PROJECT DEVELOPMENT PLAN

Sr. No.	Name of farmer	Father's/Husband's Name	Signature
44.	Bhrama Nand	Sh Rangool Ram	Bor
45.	conkan	Sho "	omkar choud
46.	Raj Kumar	Sho	
47.	Prattam	Sho Prabhu Ram	
48.	Atari Devi	Sho malap C.L.	
49.	Dilep Kumar	Sho malap C.L.	
50.	Sauran Kumar	Sho Ranga Ram	
51.	Kishori Lal.	Sho Prem C.L.	
52.	Manorlal.	Sho Brikham Ram	
53.	Vijay Kumar	Sho Suraj Kumar	
54.	Krishna Devi	Sho Bhurshur Singh	
55.	Ravi Kumar	Sho Dander	
56.	Rajender Kumar	Sho Suraj Ram	
57.	Deep Raj	Sho Sood	
58.	Kishorli Lal.	Sho	
59.	Desh Raj	Sho Rikhi Ram	
60.	Tilak Raj	Sho Rikhi Ram	
61.	Darya Ram	Sho	
62.	Prakash C.L.	Sho	
63.	Sufash C.L.	Sho	

SUB PROJECT DEVELOPMENT PLAN

Sr. No.	Name of farmer	Father's/Husband's Name	Signature
64	Ashwari Kumer	S/o Guran C	अश्वरी कुमर
65	Sorita Ram	Begm Ram	सोरीता
66	Pam C	Sho Gm Patel	Pam C
67	Rajender Paul	Sho -	राजेंद्र पाल
68	Kamlesh Kumer	W/o Balbir Singh	कमलेश कुमर
69	Kamran Singh	Sho Sh. Govind Ram	कमरान सिंह
70	Ashish Kumer	S/o Vikram C	अशिश कुमर
71	Vittam C	Guran C	VITam
72	Ponvesh Kumer	M. Penmash C	Ponvesh
73	Binta Devi	madan Lal	Binta Devi
74	Dev Kumer	Ponatap Singh	देव कुमर
75	Om Pankash	Shinu Ram	ओम पंकज
76	meju Ram	Das Patel Ram	मेजु
77	Heshiyam Singh	nonPat Ram	हेशियम सिंह
78	Rashma Devi	meher C	रश्मा देवी
79	Sonwan Kumer	Pinju Ram	सोनवान कुमर
80	ur-mila Devi	Bihari Lal	उर्मिला देवी
81	Ashuama Devi	Subash C	अशुमा देवी

SUB PROJECT DEVELOPMENT PLAN

Photographs of Micro planning process



Discussing with the farmers regarding project activities



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



Performing PRA techniques along with village community to identify land owners, custodians and cultivators



Performing PRA techniques along with village community to identify land owners, custodians and cultivators

SUB PROJECT DEVELOPMENT PLAN

Photographs of Micro planning process



Transect walk and identification of Khasra wise detail of Land owner, Custodian, Cultivator.



Resource mapping



Identification of Khasra wise detail of Land owner, Custodian and Cultivator



Identification of Khasra wise detail of Land owner, Custodian and Cultivator

SUB PROJECT DEVELOPMENT PLAN

1. SUB PROJECT INFORMATON

1.1 Salient Features

- Name of Sub project: FIS Choonala Kuhal
- Type of Scheme: Flow Irrigation Scheme
- Source of irrigation water: Choo Nalah (Perennial Source)
- District: Kangra
- Assembly Constituency: Baijnath
- Development Block: Panchrukhi
- DPMU: Palampur
- BPMU: Palampur
- Satellite Office: Paprola
- Distance to the nearest APMC Market: Baijnath- 9km
- Distance to the Local Market: Paprola- 7km

Table 1: Sub Project at Glance

Sr. No.	Description	Units	Value
1	Estimated Cost (Irrigation Infrastructure Development)	Lakhs	80.97
2	GCA	ha	38.41
3	CCA	ha	32.45
4	Cost Per Ha	Lakhs	2.50
5	No. of beneficiary farmers (as per revenue record)	No.	88
6	No. of Household (household survey including absentee)	No.	90
7	No. of Land Parcels (chaks)	No.	42
8	Irrigation Intensity (Existing)	%	187
9	Irrigation Intensity (Projected)	%	212
10	Cropping Intensity(Existing)	%	187
11	Cropping Intensity (Projected)	%	212
12	Cost Benefit Ratio	Ratio	2.68:1
13	Baseline Crop Diversification Index	%	0

(Source: DPR)

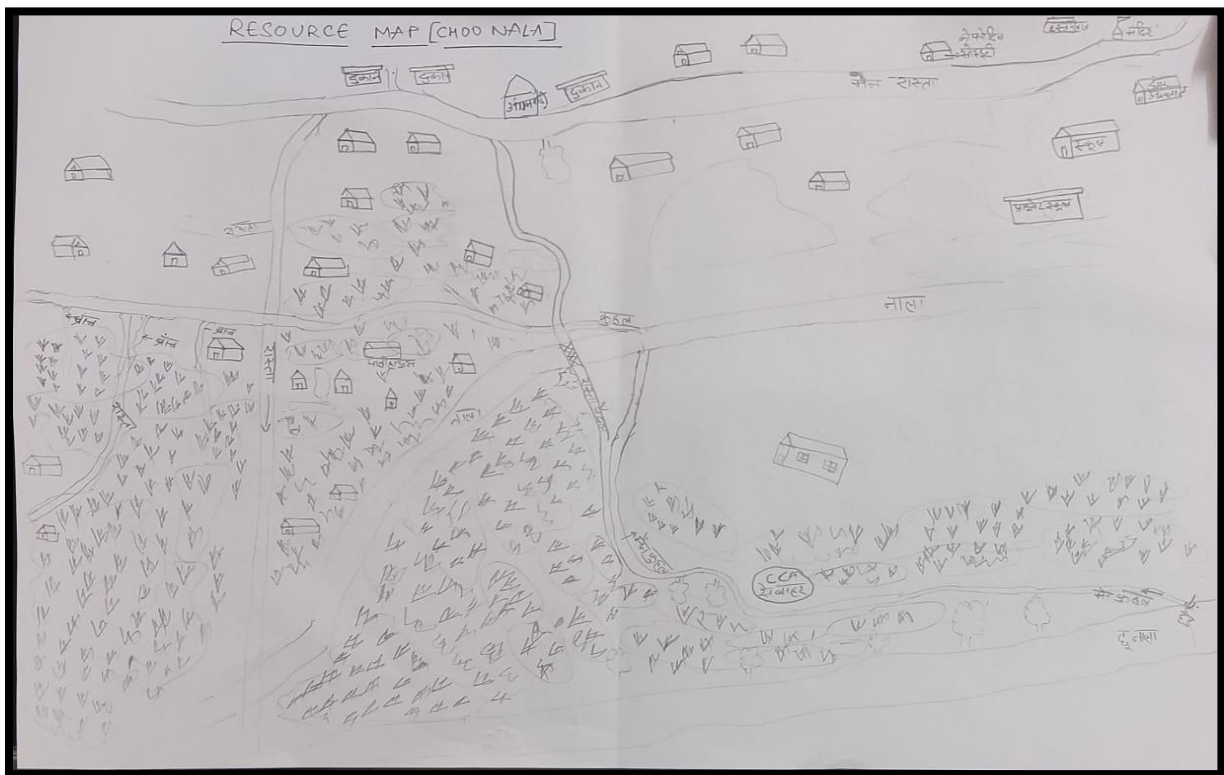
SUB PROJECT DEVELOPMENT PLAN

Location of Sub Project Site:

- ✚ Latitude -32.026338 degree
- ✚ Longitude- 76.613706 degree

Sub Project Choonala Kuhal lies geographically between 32°01'50.7" North latitude and 76°30'47.2" east longitudes on Palampur-Paprola-Sagoor Khas- Panchrukhi- Palampur road. The valley is located on a hill range of shivalik formation and steepness of slopes eases towards the lower reaches. Fields are well leveled, sloppy and surface drainage is very good. The sub-surface drainage is also good and there is no problem of water logging in any season during a year. The CCA falls in Patwar Circle Sagoor Khas having Hadbast Number 778, 773 containing 349 number of Khasra. The soil of the area is sandy loam. Fields are having moderate permeability fine textured soil. Soil depth is good for raising all types of crops like: cereals, vegetables, pulses, spices etc. Various meetings and PRA exercises were conducted at farmer's fields, homes, etc.

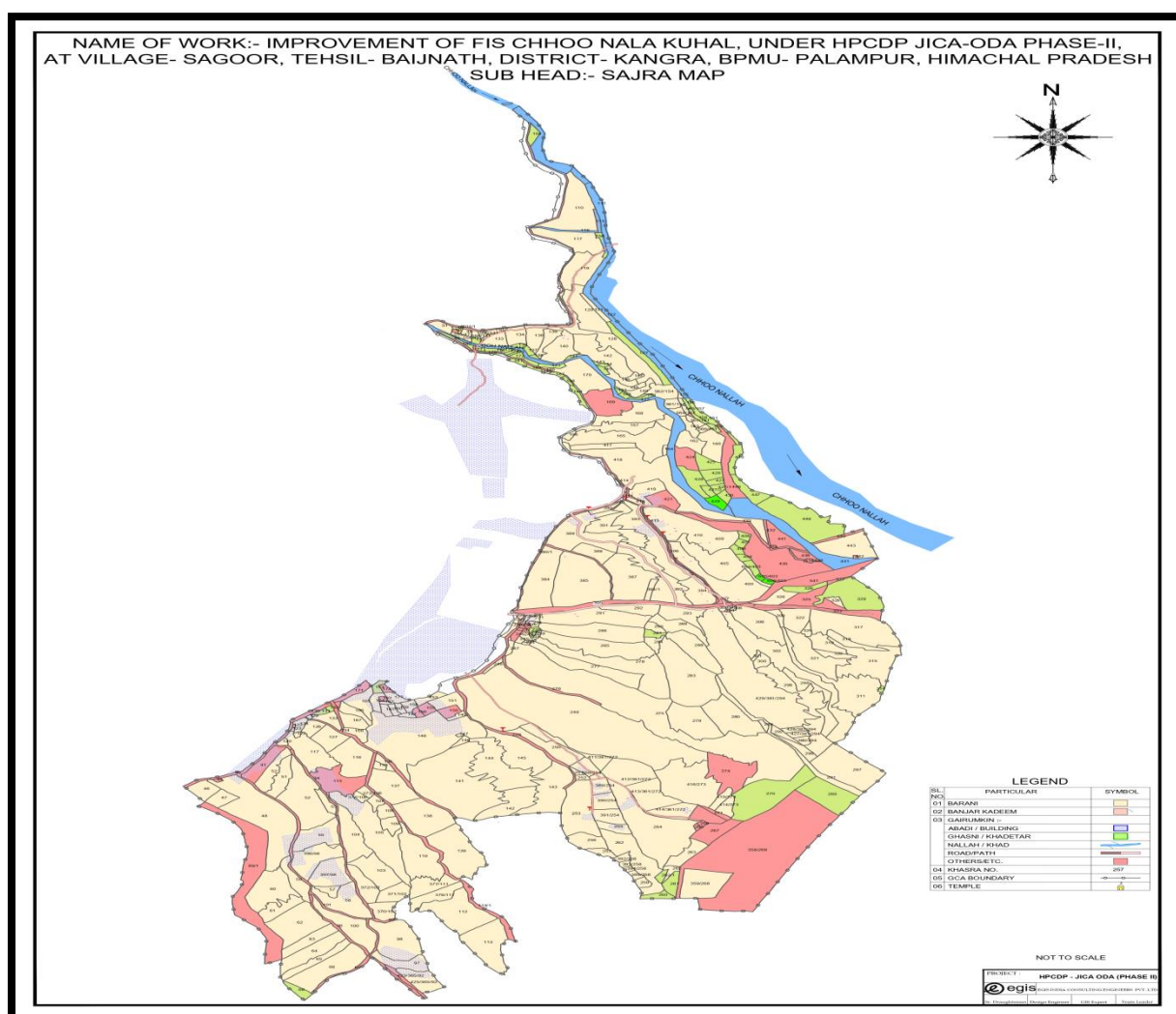
Village Resource Map (prepared by community through PRA method):



Source: PRA Exercise (Resource Mapping)

SUB PROJECT DEVELOPMENT PLAN

GIS Survey Map (CCA):



(Source: DPR)

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 mentioned tables.

Table 2: Demographic Data (HHs)

Particular	Number
Total Population:	463
1. Male	243
2. Female	220
Average Household size	5
Working population male (Service sector)	69
Working population female (Service sector)	13
No. of females per thousand males	905

(Source: HHs)

SUB PROJECT DEVELOPMENT PLAN

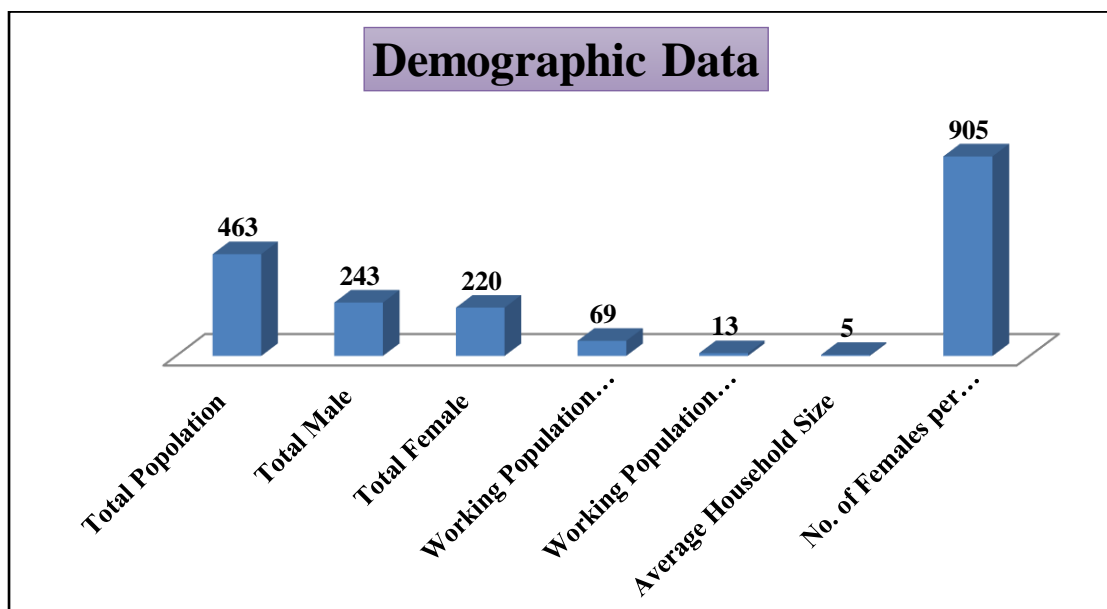
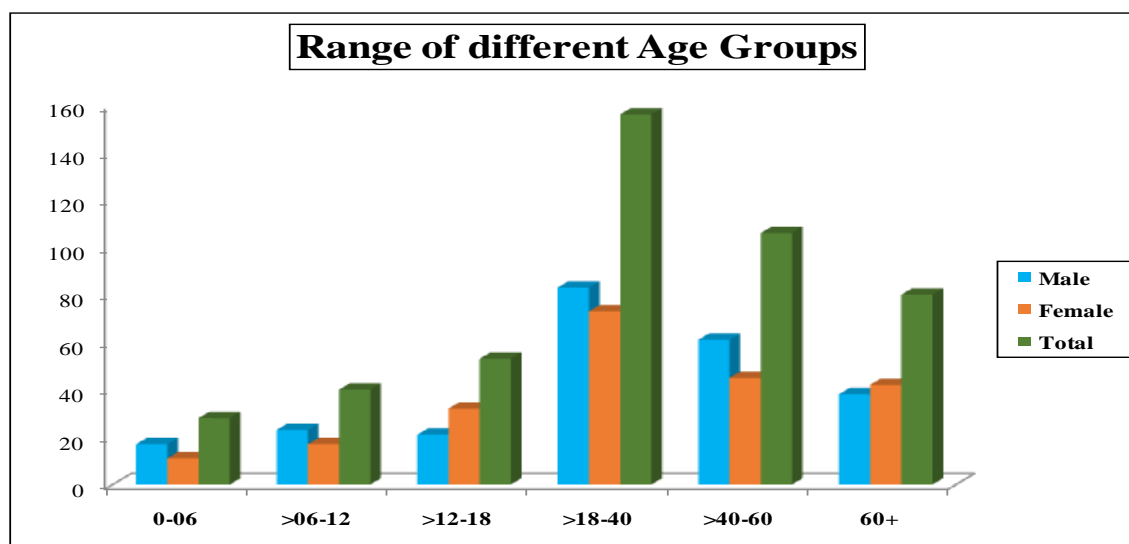


Table 3: Range of Different Age Groups:

Sr. No.	Age Group Years	Male	Female	Total	Remarks
1	0-06	17	11	28	..
2	>06-12	23	17	40	..
3	>12-18	21	32	53	..
4	>18-40	83	73	156	..
5	>40-60	61	45	106	..
6	60+	38	42	80	..

(Source: HHs)



SUB PROJECT DEVELOPMENT PLAN

Table 4: Population Data

Total Population	463
Adults Male	182
Adults Female	160
Total Adults	342
Male Children up to 18 years	61
Female Children up to 18 years:	60
Total Children	121

(Source: HHs)

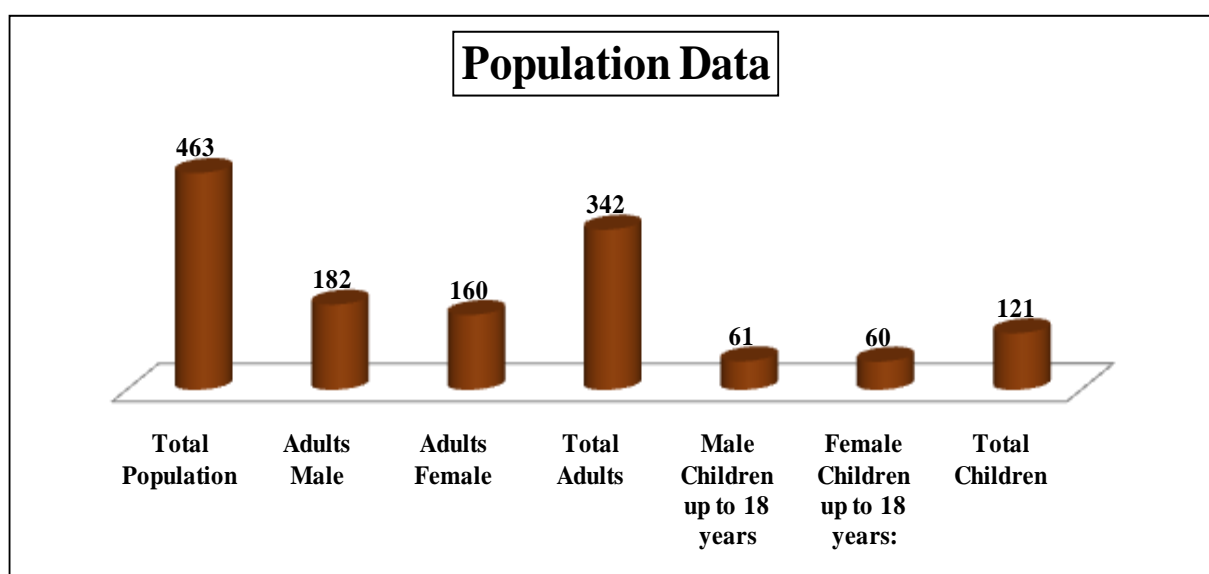


Table 5: Social Composition

Category	No of households	% of total households	Remarks
General	-	-	---
OBC	90	100%	---
Scheduled Caste	-	-	---
Scheduled Tribe	-	-	---
Total	90	100%	---

(Source: HHs)

- ✚ Total Number of Households: 90 No.
- ✚ Total number of resident households: 90 No
- ✚ Number of non-resident household: 0 No.
- ✚ Female headed households: 0


SUB PROJECT DEVELOPMENT PLAN

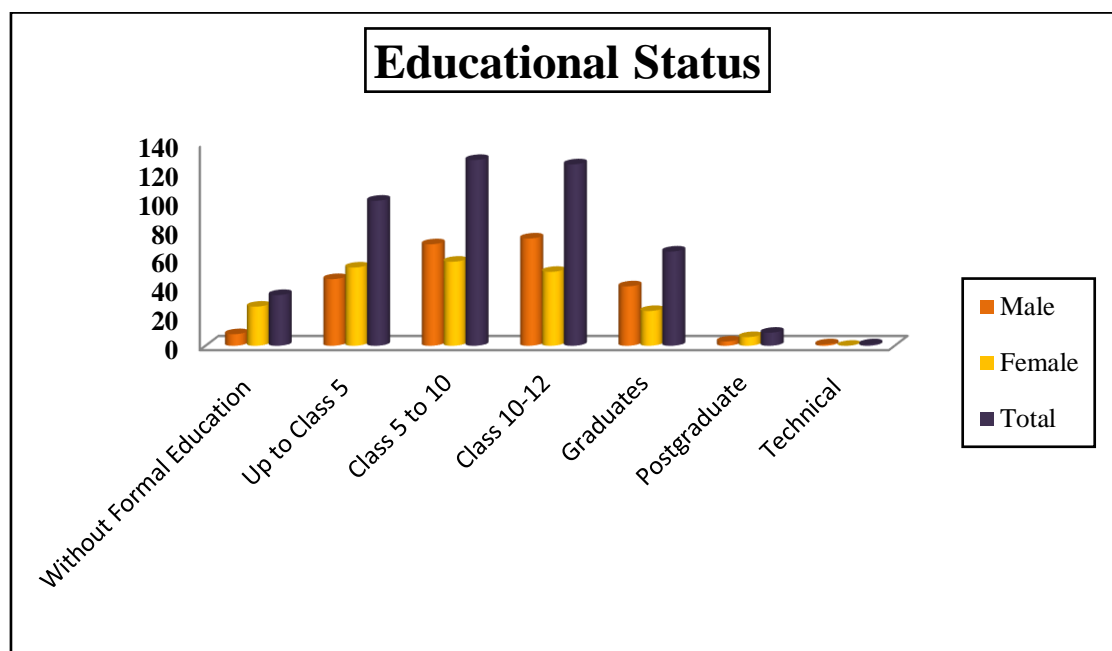
1.3 Literacy Rate

Table 6: Educational Status

Sr. No.	Education	Male	Female	Total
1	Without Formal Education	8	27	35
2	Up to Class 5	46	54	100
3	Class 5 to 10	70	58	128
4	Class 10-12	74	51	125
5	Graduates	41	24	65
6	Postgraduate	3	6	9
7	Technical	1	0	1
Total		243	220	463

(Source: HHS)

 **Literacy rate: 92.44%**



SUB PROJECT DEVELOPMENT PLAN

1.4 Access to Basic Facilities/ Services

- a) **Health services:** PHC is located within the Subproject at Choupatt. Ayurvedic Hospital Paprola is about 6km away from subproject area.
- b) **Veterinary services:** Veterinary Services are available within the sub-project, and veterinary college is at Holta which is about 15 km away from sub project.
- c) **Agriculture Service Centre:** Agriculture sale centre is located within the village.
- d) **Lok Mitra Kendra:** Lok Mitra Kendra is available at Sagoor.
- e) **Educational Institutions:**
 - Anganwari: is within the village.
 - Primary School: Primary School is within subproject area.
 - Higher Sec School: Government High School Rakkar is 4 km away from sub project.
- f) **College:** Government Degree College Baijnath (at 10Km), CSKHPKV Palampur (at 16 Km),
- g) **Transport:** Bus services and transport facilities are time to time available at Village.
- h) **Cooperative society:** Cooperative society is available within the subproject area.
- i) **Markets:** Local Market is available at Sagoor for daily needs, Main market Paprola is about 7Km from the Subproject area. APMC Baijnath is about 9 Km away from the subproject area.
- j) **Banks:** All Nationalised banks are available at Paprola.



**RESOURCE
MAPPING
OF THE
VILLAGE**

SECTION II

1. RESOURCE MAPPING OF THE VILLAGE

2.1 Water Resources

There is a perennial water source i.e., Choo Nalah in the village by which farmers are irrigating their fields through *kutchi* kuhal, making different temporary arrangements. The farmers of village Sagoor are very progressive but are not able to cultivate cash crops due to the present condition of the channel which is damaged at various points and had broken head weir. Although the farm land in the village is quite fertile but the existing system for irrigation has become defunct, due to which the villagers are not able to irrigate their fields appropriately. So a provision of renovation of defunct channel is made to meet out the requirements of water for irrigation. Therefore, the above scheme is selected under HPCDP-JICA-ODA Phase-II to facilitate proper irrigation to the farmers of Sagoor village.

Land Resources:

- a) **Total land GCA:** 38.41ha
- b) **CCA:** 32.45 ha
- c) **Land under cultivation:** 32.45 ha
- d) **Irrigated Land:** 11.15 ha (Through *Defunct* Kuhal)

Table 7: Landholding Categories:

Landholding Categories	No. of Farmers
Marginal Farmers (<1 ha)	91
Small Farmers (1.00 to 2.00 ha)	-
Medium Farmer (2.00 to 4.00 ha)	-
Large Land holding farmers (> 4.00 ha)	-
Total CCA held by small farmers (ha)	-
Total farmers (in No)	91
Average farm size of farmers in CCA in ha	0.36

(Source: HHS)

2.1.1 Soil Status and Health

The average pH of the soil falls within the range of 5.7-6.8, indicating slightly acidic to neutral reaction. This pH range is generally favorable for growing most of the crops including vegetables. Fields are well leveled, sloppy and surface drainage is very good. The sub-surface drainage is also good and there is no problem of water logging in any season during a year. The soil's texture is silty clay loam and type of soil is acidic soils. Soil depth is 15-30 centimeters (12 inches) which is preferred for crops. The Organic carbon ranges from low to medium, available potassium ranges from low to medium level, Nitrogen ranges from low to

SUB PROJECT DEVELOPMENT PLAN

medium, Phosphorus ranges from medium to High level. The micro-nutrient elements like manganese, zinc, copper, etc are also sufficient in soil.

Latitude	32.112244 degree
Longitude	76.500314 degree
Type of Soil	Acidic soils
Texture of the soil	Silty Clay Loam
Agro climatic Zone	Sub humid mid hills zone II

2.3 Human Resource:

In view of the complications of revenue record w.r.t. 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 own as legal heirs in the CCA. As per the baseline survey and farm walks and revenue record, the team identified different land owners, custodians (legal heirs) and cultivators. Farmers are categorized into three groups namely **Advance, Intermediate and Conservative**.

Besides this one more category of farmer has been carved out of all these which fall under the group of vulnerable families. This has been done as per present status of crop diversification, livelihood activities, etc.

Youth group i.e., 19 to 40 years age are also identified, however, majorly they are involved in professional jobs or business. Farming is practiced by farmers having more than 40 years of age along with few youth members.

- **Land Owner (Custodian) Families:** 71 Nos.
- **Land Cultivator Families:** 91 Nos. farming families are presently living in village and also have land ownership within CCA.
- **No. of Absentee Farmer:** Nil
- **No. of Specially Abled Families :** Nil
- **No. of Women Headed Families:** 14Nos. source of income is pension.
- **No. of BPL Families:** 11Nos. farming families.

SUB PROJECT DEVELOPMENT PLAN

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 record. 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)

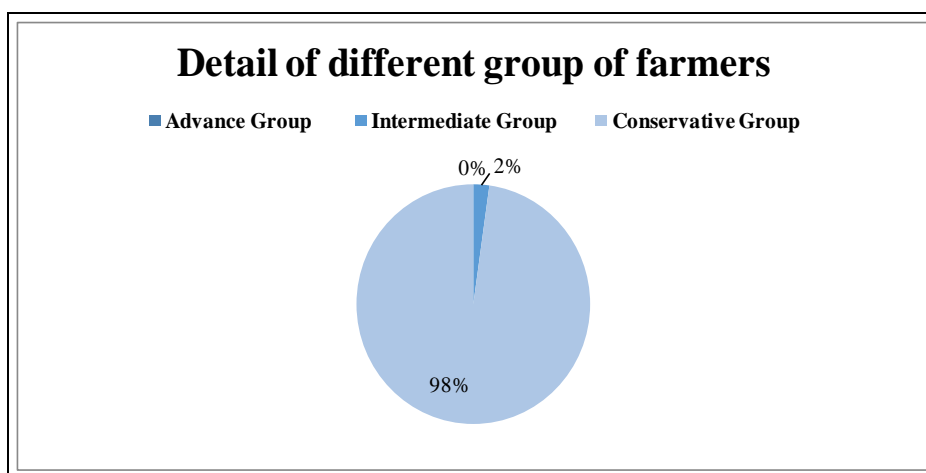
Advance Group (A)	Intermediate (B)	Conservative (C)
	Vinod Kumar	Jagdish Chand
	Desh Raj	Khembo Ram
		Bhajan Singh
		Kehar Singh
		Mehar Singh
		Vikram Chand
		Nimmo Devi
		Rakesh Kumar
		Jagdeesh Chand
		Gyan Chand
		Maan Chand
		Ajay Kumar
		Vijay Kumar
		Rajinder Kumar
		Jeet Singh
		Sashi Kumar
		Rajeev Kumar
		Sanjeev Kumar
		Parmod Singh
		Tarlok Chand
		Panjabu Ram
		Raj Kumar
		Monu Kumar
		Vijay Kumar
		Prakram Chand
		Sansar Chand
		Hoshiyar Singh
		Moju Ram
		Bhago Devi
		Pyaar Chand
		Dhruv Singh
		Kanta Devi
		Chaila Ram
		Ramesh Chand
		Ranjeet Singh
		Karam Chand
		Deena Nath
		Prittam Das
		Milap Chand
		Changa Ram

SUB PROJECT DEVELOPMENT PLAN

	Tarlok Chand
	Partap Chand
	Gufli Devi
	Dhani Ram
	Sharda Ram
	Tilak Raj
	Uttam Singh
	Kashmir Singh
	Sidhu Singh
	Thakur Das
	Ganesh Dutt
	Diwana Ram
	Arpit Kumar
	Kehar Singh
	Dharam Chand
	Makholi Ram
	Sanjeev Kumar
	Baldev Kumar
	Balkrishan
	Kishori Lal
	Milap Chand
	Rajkumar
	Sripat
	Parveen Kumar
	Naveen Kumar
	Purshotam Singh
	Om Parkash
	Somit Kumar
	Tushar
	Kamal Chand
	Maresh Kumar
	Tilak Raj
	Sesh Ram
	Balam Chand
	Gulaba
	Harbansh
	Yashpal
	Parkash Chand
	Rangila Ram
	Ashwani Kumar
	Ajay Kumar
	Parvinder Kumar
	Ranjeet Singh
	Randhir Singh
	Ranveer Singh
	Som Raj
	Pala Ram
	Gagan
	Bihari Lal

Total: Category A- 0 No., Category B- 2 Nos., Category C- 89 Nos.

SUB PROJECT DEVELOPMENT PLAN



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

The data for wealth ranking collected through PRA tools from 91 Nos. of farming families regarding different resources, physical assets, livestock, etc which is analysed and interpreted in the “Table No. 10”. Out of 91 Nos. of Families 11 Nos. are categorized under Category “Z” (BPL 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 special ability
- 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
-	-	-	-	-	-	-	-

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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	Smt. Roma Devi	S/O Sh. Vishembar Lal	P290-PLP-ChooNala-19	65	Widow Pension	60000/-	Mushroom Cultivation
2	Smt. Chintu Devi	W/O Sh. Jeet Singh	P290-PLP-ChooNala-53	72	Widow Pension	34000/-	-
3	Smt. Atmi Devi	W/O Sh. Milap Chand	P290-PLP-ChooNala-47	62	Widow Pension	60000/-	Mushroom Cultivation
4	Smt. Taro Devi	W/O Sh. Duni Chand	P290-PLP-ChooNala-12	67	Widow Pension	70000/-	Mushroom Cultivation
5	Smt. Savitri Devi	W/O Sh. Birbal Singh	P290-PLP-ChooNala-67	66	Widow Pension	32000/-	Mushroom Cultivation
6	Smt. Sudershna Devi	W/O Sh. Kesar Singh	P290-PLP-ChooNala-41	60	Widow Pension	72000/-	Mushroom Cultivation
7	Smt. Sushma Devi	W/O Sh. Subhash Chand	P290-PLP-ChooNala-66	54	Widow Pension	65000/-	Dairy Farming/ Mushroom Cultivation
8	Smt. Kesari Devi	W/O Sh. Pyaar Chand	P290-PLP-ChooNala-05	70	Widow pension	35000/-	-
9	Smt. Kanta Devi	W/O Sh. Tirlok Chand	P290-PLP-ChooNala-09	50	Widow pension	60000/-	Dairy Farming/ Mushroom Cultivation
10	Smt. Nimmo Devi	W/O Sh. Bhavan Chand	P290-PLP-ChooNala-33	62	Widow pension	38000/-	Mushroom Cultivation
11	Smt. Sawana Devi	W/O Sh. Prakram Chand	P290-PLP-ChooNala-37	54	Widow pension and other	30000/-	Dairy Farming/ Mushroom Cultivation
12	Smt. Krishna Devi	W/O Sh. Suraj Ram	P290-PLP-ChooNala-21	67	Widow pension and other	45000/-	-
13	Smt. Urmila Devi	W/O Sh. Kulwant Rai	P290-PLP-ChooNala-06	70	Widow pension and other	40000/-	-
14	Smt. Raksha Devi	W/O Sh. Tara Chand	P290-PLP-ChooNala-31	60	Widow pension and other	35000/-	Dairy Farming/ Mushroom Cultivation

SUB PROJECT DEVELOPMENT PLAN

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. Shiv Kumar	S/O Vishembar Lal	P290-PLP-ChooNala-19	Daily Wages	Mushroom Cultivation/ Dairy Farming
2	Sh. Rajinder Kumar	S/O Sh. Suraj Ram	P290-PLP-ChooNala-04	Private Job	Interested in Livelihood activities
3	Smt. Vijay Kumari	W/O Sh. Raj Kumar	P290-PLP-ChooNala-57	Daily Wages	Mushroom Cultivation/ Dairy Farming
4	Sh. Ramesh Chand	W/O Sh. Pahdu Ram	P290-PLP-ChooNala-05	Daily Wages	Mushroom Cultivation/ Dairy Farming
5	Sh. Vijay Kumar	S/O Sh. Ram Singh	P290-PLP-ChooNala-11	Labour Work	Mushroom Cultivation/ Dairy Farming
6	Sh. Pyaar Chand	S/O Sh. Sripat	P290-PLP-ChooNala-15	Pensioner	Mushroom Cultivation/ Dairy Farming
7	Sh. Harnaam Singh	S/O Sh. Partap Chand	P290-PLP-ChooNala-23	Daily Wages	Mushroom Cultivation
8	Sh. Narinder Kumar	S/O Sh. Vishembar Lal	P290-PLP-ChooNala-19	Private Job	Mushroom Cultivation/ Dairy Farming
9	Sh. Parmod Singh	S/O Sh. Kinna Ram	P290-PLP-ChooNala-56	Daily Wages	Mushroom Cultivation
10	Smt. Nita Devi	W/O Sh. Ashish Kumar	P290-PLP-ChooNala-38	Daily Wages	Mushroom Cultivation/ Dairy Farming
11	Sh. Parkash Chand	S/O Sh. Punnu Ram	P290-PLP-ChooNala-28	Private Job	Mushroom Cultivation/ Dairy Farming
12	Sh. Raj Kumar	S/O Sh. Dulo Ram	P290-PLP-ChooNala-62	Private Job	Dairy Farming/ Mushroom Cultivation

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Table: 12 Detail of other Vulnerable farming families on the basis of wealth ranking, other than the above three categories

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	Smt. Sawarna Devi	W/O Sh. Prakram Chand	P290-PLP-ChooNala-37	Widow pension	Dairy Farming/ Mushroom cultivation
2	Smt. Kanta Devi	W/O Sh. Trilok Chand	P290-PLP-ChooNala-09	Widow pension	Dairy Farming/ Mushroom cultivation
3	Smt. Sushma Devi	W/O Sh. Subhash Chand	P290-PLP-ChooNala-66	Widow pension	Dairy Farming/ Mushroom cultivation
4	Sh. Shiv Kumar	S/O Sh. Vishembar Lal	P290-PLP-ChooNala-19	Daily Wages	Dairy Farming/ Mushroom cultivation
5	Sh. Vijay Kumar	S/O Sh. Ram Singh	P290-PLP-ChooNala-11	Labour Work	Dairy Farming/ Mushroom cultivation
6	Sh. Rajinder Kumar	S/O Sh. Suraj Ram	P290-PLP-ChooNala-04	Private Job	Dairy Farming/ Mushroom cultivation
7	Sh. Pyar Chand	W/O Sh. Stripat	P290-PLP-ChooNala-15	Pensioner	Dairy Farming/ Mushroom cultivation
8	Smt. Vijay Kumari	W/O Sh. Raj Kumar	P290-PLP-ChooNala-57	Daily Wages	Dairy Farming/ Mushroom cultivation

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

S.N	Name of Farmer & address	Remarks
1	Smt. Sawarna Devi W/O Sh. Prakram Chand	Tentative List
2	Smt. Kanta Devi W/O Sh. Trilok Chand	
3	Smt. Sushma Devi W/O Sh. Subhash Chand	
4	Sh. Shiv Kumar S/O Sh. Vishembar Lal	
5	Sh. Vijay Kumar S/O Sh. Ram Singh	
6	Sh. Rajinder Kumar S/O Sh. Suraj Ram	
7	Sh. Pyar Chand W/O Sh. Stripat	
8	Smt. Vijay Kumari W/O Sh. Raj Kumar	

SUB PROJECT DEVELOPMENT PLAN

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

After conducting various sensitization meetings, awareness/training camps of farmers regarding introduction to HPCDP-JICA-ODA Phase-II and DPR preparation. In these meetings and camps, farmers are being made aware regarding different project activities. Revenue record is collected from respective revenue office and ownership statement for DPR is prepared in which detail of land owners and area under Kuhali aval, banjar Kadeem, gairmumkin, abadi, etc is identified. Detail of khasra wise area of different land owners is also prepared from the record. Farmer's field were visited along with MC members and beneficiaries and with the help of KML file of contour plan of sub project, custodian and cultivator of particular field is identified. Data is analyzed and compiled in below mention table.

Table14: Details of Cultivator, Custodian, Landowners*

Sr. No .	Name of Land Owner	Khasra No.	Area CCA (Ha)	HPCDP Family Reg. No.	Custodian Family & Relation/ Joint	Cultivator Family & Relation/ Joint	Remarks
1	Sh. Jagdish Chand, Sh. Khembo Ram, Sh. Bhajan Singh S/O Sh. Bhawani Das	140, 141, 142, 143, 147, 424, 428, 53, 103, 104	0.939	P290-PLP- Choonala-04	Sh. Jagdish Chand	Sh. Jagdish Chand (Self)	Land Cultivated Jointly and Produce is shared equally.
				P290-PLP- Choonala-03	Sh. Khembo Ram	Sh. Khembo Ram (Self)	
				P290-PLP- Choonala-05	Sh. Bhajan Singh	Sh. Bhajan Singh (Self)	
2	Sh. Puran Chand S/O Dalipa	127, 128, 153	0.322	P290-PLP- Choonala-08	Kehar Singh, Mehar Singh S/O Puran Chand	Kehar Singh, Mehar Singh (Son)	Land Cultivated Jointly and Produce is shared equally.
3	Sh. Vikram Chand S/O Murli Ram	48, 49, 133, 145, 170, 171, 174, 385, 562/154, 560/131	0.787	P290-PLP- Choonala-10	Sh. Vikram Chand S/O Murli Ram (Self)	Sh. Vikram Chand (Self)	
4	Smt. Mamta Devi, Smt. Ambika, Smt. Madhu, Kumari Shabnam D/O Bhawan Chand ,	46, 130, 139, 146, 148, 173, 176, 179, 286, 404, 406, 561/154, 564/157,	0.373	P290-PLP- Choonala-07	Nimmo Devi W/O Bhawan Chand (Mother)	Nimmo Devi (Self)	

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	Nimmo Devi W/O Bhawan Chand	566/161, 167					
5	Sh. Rakesh Kumar S/O Jhanko Ram	51, 134, 135, 149, 155, 163, 175, 177, 296, 407, 408, 563/157, 554/47	0.224	P290-PLP- Choonala-09	Sh. Rakesh Kumar S/O Jhanko Ram	Sh. Rakesh Kumar (Self)	
6	Sh. Jagdeesh Chand S/O Milkhi Ram	185	0.008	P290-PLP- Choonala-02	Sh. Jagdeesh Chand (Self)	Sh. Jagdeesh Chand (Self)	
7	Sh. Gyan Chand S/O Sh. Minaku Ram	153, 160, 173	0.045	P290-PLP- Choonala-06	Sh. Gyan Chand S/O Sh. Minaku Ram	Sh. Gyan Chand (Self)	
8	Sh. Maan Chand, Sh. Ajay, Sh. Vijay, Sh. Ramesh S/O Sh. Ram Singh	117, 119, 159, 160, 263, 288, 425, 426, 427, 427/2	0.691	P290-PLP- Choonala-01	Sh. Maan Chand S/O Sh. Ram Singh, Sh. Ajay, Sh. Vijay S/O Sh. Ram Singh	Sh. Maan Chand , Sh. Ajay, Sh. Vijay (Brothers)	
9	Sh. Rajinder Kumar S/O Sh. Pahdu Ram	318, 322, 419, 409	0.589	P290-PLP- Choonala-13	Sh. Rajinder Kumar S/O Sh. Pahdu Ram	Sh. Rajinder Kumar (Self)	
10	Sh. Jeet Singh S/O Sh. Sali Ram	389, 392	0.559	P290-PLP- Choonala-12	Sh. Jeet Singh S/O Sh. Sali Ram	Sh. Jeet Singh (Self)	
11	Sh. Shashi Kumar, Sh. Rajeev, Sh. Sanjeev S/O Sh. Ram Lal	181	0.115	P290-PLP- Choonala-11	Sh. Shashi Kumar, Sh. Rajeev, Sh. Sanjeev S/O Sh. Ram Lal	Sh. Shashi Kumar, Sh. Rajeev, Sh. Sanjeev (Brothers)	Land Cultivated Jointly and Produce is shared equally.

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12	Sh. Deepak Kumar S/O Thakar Das	104, 384	0.325	P290-PLP- Choonala-15	Sh. Parmod Singh S/O Sh. Machinder Singh	Sh. Parmod Singh (Self)	
		387, 388 390, 394/1	0.404	P290-PLP- Choonala-14	Sh. Maan Chand S/O Ram Singh	Sh. Maan Chand (Self)	
13	Smt. Amri Devi W/O Sh. Ranu Ram	110, 248, 251, 253	0.389	P290-PLP- Choonala-18	Tarlok Chand, Panjabu Ram, Rajkumar, Jagdish S/O Narad Ram	Tarlok Chand, Panjabu Ram, Rajkumar, Jagdish (Aunt)	Land Cultivated Jointly.
				P290-PLP- Choonala-19	Monu, Vijay S/O Kesar Singh	Monu, Vijay (Aunt)	
14	Sh. Raseel Chand S/O Sh. Ganu	120, 121, 292, 427/1, 430	0.26	P290-PLP- Choonala-16	Prakram Chand, Sansar Chand S/O Birbal Singh	Prakram Chand, Sansar Chand (Brothers)	Land Cultivated Jointly and Produce is shared equally
				P290-PLP- Choonala-17	Hoshiyar Singh, Moju Ram S/O Narpal Ram	Hoshiyar Singh, Moju Ram (Brothers)	
15	Smt. Bago Devi W/O Roshan Lal	138	0.065	P290-PLP- Choonala-20	Smt. Bago Devi W/O Roshan Lal	Smt. Bago Devi (Self)	
16	Sh. Pyaar Chand S/O Sh. Ramji Das	132, 136, 137, 144, 158, 166, 168, 172, 305, 306, 567/161, 559/131	0.359	P290-PLP- Choonala-23	Sh. Pyaar Chand S/O Sh. Ramji Das	Sh. Pyaar Chand (Self)	

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17	Sh. Dhruv Singh S/O Sh. Diwaan Chand	188	0.088	P290-PLP- Choonala-24	Sh. Dhruv Singh S/O Sh. Diwaan Chand	Sh. Dhruv Singh (Self)	
18	Smt. Kanta Devi W/O Sh. Saran Das	418	0.349	P290-PLP- Choonala-25	Smt. Kanta Devi W/O Sh. Saran Das	Smt. Kanta Devi (Self)	
19	Sh. Chaila Ram S/O Nihala Ram	165, 417	0.351	P290-PLP- Choonala-21	Sh. Chaila Ram, Amar Singh S/O Nihala Ram	Sh. Chaila Ram , Sh. Amar Singh (Self)	
20	Sh. Ramesh Chand, Ranjeet Singh, DeenaNath, Karam Chand S/O Vidhiya Ram	184	0.110	P290-PLP- Choonala-22	Sh. Ramesh Chand, Ranjeet Singh, DeenaNath, Karam Chand S/O Vidhiya Ram	Sh. Ramesh Chand, Ranjeet Singh, DeenaNath, Karam Chand (Brothers)	Land Cultivated Jointly
21	Sh. Dupinder Kumar S/O Sh. Amar Singh	447, 189	0.032	P290-PLP- Choonala-29	Prittam Das, Milap Chand, Changa Ram S/O Nolu Ram	Prittam Das, Milap Chand, Changa Ram (Brothers)	Land Cultivated Jointly
22	Smt. Geeta Devi W/O Sh. Sidhu Ram	394	0.100	P290-PLP- Choonala-26	Sh. Tarlok Chand, Sh. Partap Chand S/O Panch Ram	Sh. Tarlok Chand, Sh. Partap Chand (Brothers)	Land Cultivated Jointly and Produce is shared equally
		391, 410	0.165	P290-PLP- Choonala-27	Sh. Desh Raj, Sh. Vinod Kumar S/O Punnu Ram	Sh. Desh Raj, Sh. Vinod Kumar (Brothers)	
		393, 397	0.275	P290-PLP- Choonala-28	Sh. Sharda Ram, Sh. Dhani Ram S/O Chando Ram	Sh. Sharda Ram, Sh. Dhani Ram (Brothers)	

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23	Sh. Tilak Raj S/O Dulo Ram	299, 300, 301, 400	0.434	P290-PLP- Choonala-32	Sh. Tilak Raj S/O Dulo Ram	Sh. Tilak Raj (Self)	
24	Sh. Uttam Singh, Sh. Kashmir Singh, Sh. Ranjeet Singh S/O Diwana	405, 604/403, 144, 143, 298, 304, 308, 605/403, 373/106	1.328	P290-PLP- Choonala-30	Sh. Uttam Singh S/O Diwana, Sh. Kashmir Singh, Sh. Ranjeet Singh	Sh. Uttam Singh, (Brothers) Sh. Kashmir Singh, Sh. Ranjeet Singh	Land Cultivated Jointly and Produce is shared equally.
25	Sh. Sidhu Singh S/O Gosau	449	0.232	P290-PLP- Choonala-31	Sh. Sidhu Singh S/O Gosau	Sh. Sidhu Singh (Self)	
26	Sh. Thakur Das S/O Sh. Gandhi Ram	446, 443	0.476	P290-PLP- Choonala-34	Sh. Thakur Das S/O Sh. Gandhi Ram	Sh. Thakur Das (Self)	
27	Sh. Mast Ram S/O Sh. Ratho Ram, Sh. Diwana Ram S/O Sh. Gulaba Ram	107	0.126	P290-PLP- Choonala-36	Sh. Diwana Ram S/O Sh. Gulaba Ram	Sh. Diwana Ram (Self)	
28	Sh. Mast Ram S/O Sh. Ratho Ram, Sh. Ganesh Datt S/O Sh. Roshan Lal	51, 52, 120	0.421	P290-PLP- Choonala-35	Sh. Ganesh Datt S/O Sh. Roshan Lal	Sh. Ganesh Datt (Self)	
29	Sh. Mast Ram S/O Sh. Ratho Ram, Arpit S/O Rattan Chand, Kehar Singh S/O Jagarnath, Dharam Chand S/O Sidhu Ram, Parveen Kumar S/O Lachman Das	60, 105	0.637	P290-PLP- Choonala-33	Arpit S/O Rattan Chand, Kehar Singh S/O Jagarnath, Dharam Chand S/O Sidhu Ram	Arpit, Kehar Singh, Dharam Chand (Cousin Brothers)	Land Cultivated Jointly and Produce is shared equally.

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30	Sh.Makholi Ram S/O Sita Ram, Sanjeev Kumar, Baldev Singh, BalKrishan S/O Partapo Ram, Mast Ram S/O Sh. Ratho Ram	100, 61, 59	0.395	P290-PLP- Choonala-38	Sh.Makholi Ram S/O Sita Ram, Sanjeev Kumar, Baldev Singh, BalKrishan S/O Partapo Ram	Sh.Makholi Ram, Sanjeev Kumar, Baldev Singh, BalKrishan (Cousin Brothers)	Land Cultivated Jointly and Produce is shared equally.
31	Sh. Sripat S/O Gita Ram, Raj Kumar, Kishori Lal, Milap Chand S/O Gorakh Ram, Mast Ram S/O Ratho Ram	58, 109	0.227	P290-PLP- Choonala-37	Sh. Sripat S/O Gita Ram, Raj Kumar, Kishori Lal, Milap Chand S/O Gorakh Ram	Sh. Sripat, Raj Kumar, Kishori Lal, Milap Chand (Cousin Brothers)	Land Cultivated Jointly and Produce is shared equally.
32	Sh. Om Parkash, Maresh Kumar, Somit Kumar S/O Bihari Lal, Mast Ram S/O Ratho Ram	108, 65, 63, 62, 64	0.637	P290-PLP- Choonala-39	Sh. Om Parkash S/O Bihari Lal, Maresh Kumar S/O Bihari Lal, Somit Kumar S/O Bihari Lal	Sh. Om Parkash, Maresh Kumar, Somit Kumar (Brothers)	Land Cultivated Jointly and Produce is shared equally.
33	Sh. Parveen Kumar, Sh. Naveen Kumar S/O Lachman Das	125, 131, 377/111	0.123	P290-PLP- Choonala-41	Sh. Parveen Kumar, Sh. Naveen Kumar S/O Lachman Das	Sh. Parveen Kumar, Sh. Naveen Kumar (Brothers)	Land Cultivated Jointly and Produce is shared equally.
34	Sh. Parveen Kumar, Sh. Naveen Kumar S/O Lachman Das,	110, 117, 166, 376/111, 302	1.032	P290-PLP- Choonala-40	Purshottam Singh S/O Partap Chand (Cousin Brothers)	Purshottam Singh S/O Partap Chand (Cousin Brothers)	Land Cultivated Jointly and Produce is shared equally.

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	Purshottam Singh S/O Partap Chand, Tilak Raj S/O Gyan Chand, Tushar S/O Subhash Chand			P290-PLP- Choonala-43	Tilak Raj S/O Gyan Chand	Tilak Raj S/O Gyan Chand	
				P290-PLP- Choonala-44	Tushar S/O Subhash Chand	Tushar S/O Subhash Chand	
35	Sh. Kamal Chand S/O Sh. Suresh Chand	46, 47, 48	0.705	P290-PLP- Choonala-42	Sh. Kamal Chand S/O Sh. Suresh Chand	Sh. Kamal Chand (Self)	
36	Sh. Raj Kumar S/O Bihari Lal, Kehar Singh, Mehar Singh S/O Dilipa	55	0.114	P290-PLP- Choonala-45	Sh. Raj Kumar S/O Bihari Lal, Kehar Singh, Mehar Singh S/O Dilipa	Sh. Raj Kumar, Kehar Singh, Mehar Singh (Cousin Brothers)	Land Cultivated Jointly and Produce is shared equally.
37	Sh. Sarwan Kumar S/O Sh. Pinja Ram	57, 397/56	0.162	P290-PLP- Choonala-48	Sh. Sarwan Kumar S/O Sh. Pinja Ram	Sh. Sarwan Kumar (Self)	
38	Sh. Sesh Ram, Sh. Balam Chand S/O Bhothi Ram	66	0.285	P290-PLP- Choonala-46	Sh. Sesh Ram S/O Bhothi Ram	Sh. Sesh Ram, (Brothers)	Land Cultivated Jointly and Produce is shared equally.
				P290-PLP- Choonala-47	Sh. Balam Chand S/O Bhothi Ram	Sh. Balam Chand	
39	Sh. Harbans, Sh. YashPal S/O Sh. Vishan Das	68	0.134	P290-PLP- Choonala-50	Sh. Harbans, Sh. YashPal S/O Sh. Vishan Das	Sh. Harbans, Sh. YashPal (Brothers)	Land Cultivated Jointly and Produce is shared equally.
40	Sh. Maan Singh S/O Sh. Vasant	97	0.289	P290-PLP- Choonala-49	Sh. Maan Singh S/O Sh. Vasant	Sh. Maan Singh (Self)	
41	Sh. Gulaba, Sh. Rangila,	98	0.675	P290-PLP- Choonala-52	Sh. Gulaba S/O Sh.	Sh. Gulaba (Brothers)	Land Cultivated

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	Sh. Paras Ram S/O Sh. Ghuman				Ghuman		Jointly and Produce is shared equally.
				P290-PLP- Choonala-51	Sh. Rangila	Sh. Rangila	
				P290-PLP- Choonala-53	Sh. Paras Ram	Sh. Paras Ram	
42	Sh. Gyan Chand, Sh. Parkash Chand S/O Sh. Pohlo Ram, Ashwani, Ajay S/O Megh Singh, Ranjeet, Ranveer, Randhir S/O Dhani Ram	112, 113, 116, 126, 127, 133, 135, 136, 137, 138, 139, 165, 167, 168	1.982	P290-PLP- Choonala-56	Sh. Gyan Chand S/O Sh. Pohlo Ram	Sh. Gyan Chand (Cousin Brothers)	Land Cultivated Jointly and Produce is shared equally.
				P290-PLP- Choonala-55	Sh. Parkash Chand S/O Sh. Pohlo Ram	Sh. Parkash Chand	
				P290-PLP- Choonala-58	Ashwani S/O Megh Singh	Ashwani	
				P290-PLP- Choonala-57	Ajay S/O Megh Singh	Ajay	
				P290-PLP- Choonala-59	Ranjeet S/O Dhani Ram	Ranjeet	
				P290-PLP- Choonala-60	Ranveer S/O Dhani Ram	Ranveer	
				P290-PLP- Choonala-54	Randhir S/O Dhani Ram	Randhir	
43	Sh. Naresh Kumar S/O Sh. Bihari Lal	123, 124	0.325	P290-PLP- Choonala-62	Sh. Naresh Kumar S/O Sh. Bihari Lal	Sh. Naresh Kumar (Self)	
44	Sh. Tilak Chand, Sh. Pyar Chand S/O Sh. Chando Ram	132	0.64	P290-PLP- Choonala-64	Sh. Tilak Chand, Sh. Pyar Chand S/O Sh. Chando Ram	Sh. Tilak Chand, Sh. Pyar Chand (Self)	
45	Sh. Vinod Kumar, Sh. Parvinder Singh S/O Sh. Finna Ram	142, 145	0.482	P290-PLP- Choonala-61	Sh. Vinod Kumar, Sh. Parvinder Singh S/O Sh. Finna Ram	Sh. Vinod Kumar, Sh. Parvinder Singh (Self)	

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46	Sh. Vinod Kumar S/O Sh. Mahinder Singh, Sh. Ashwani Kumar S/O Gyan Chand, Tara Chand, Sansar Chand, Somraj S/O Tota Ram	141, 146, 148, 149, 151	1.624	P290-PLP- Choonala-63	Sh. Vinod S/O Sh. Mahinder Singh, Sh. Ashwani S/O Gyan Chand, Tara Chand, Sansar Chand, Somraj S/O Tota Ram	Sh. Vinod Kumar, Sh. Ashwani Kumar, Tara Chand, Sansar Chand, Somraj (Brothers)	Land Cultivated Jointly and Produce is shared equally.
47	Sh. Desh Raj, Sh. Deep Raj S/O Sh. Sihnu Ram	158, 159, 161, 162, 164, 177	0.356	P290-PLP- Choonala-66	Sh. Desh Raj, Sh. Deep Raj S/O Sh. Sihnu Ram	Sh. Desh Raj, Sh. Deep Raj (Self)	
48	Sh. Raj Kumar, Kishori Lal, Milap Chand S/O Sh. Gorakh Ram	415/273, 416/273	0.52	P290-PLP- Choonala-65	Sh. Raj Kumar, Kishori Lal, Milap Chand S/O Sh. Gorakh Ram	Sh. Raj Kumar, Kishori Lal, Milap Chand (Self)	Land Cultivated Jointly and Produce is shared equally.
49	Sh. Pala Ram S/O Sh. Duniya Ram	157	0.242	P290-PLP- Choonala-67	Sh. Pala Ram S/O Sh. Duniya Ram	Sh. Pala Ram (Self)	

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50	Sh. Ashwani Kumar S/O Rattan Chand, Vijay Kumar, Rajinder Kumar S/O Suraj Ram, Sesh Ram S/O Jaisi Ram, Rampyari D/O Bheem Sain, Ravi Kumar S/O Sudarshna, Pyaar Chand S/O Dharam Chand	226, 227, 230, 231, 234, 238, 239, 240, 241, 242, 243, 244, 245, 277, 278, 283, 284, 285, 286, 289, 290, 291, 292, 293	2.564	P290-PLP- Choonala-68	Sh. Ashwani Kumar S/O Rattan Chand, Vijay Kumar S/O Suraj Ram, Rajinder Kumar S/O Suraj Ram, Sesh Ram S/O Jaisi Ram, Ravi Kumar S/O Sudarshna, Pyaar Chand S/O Dharam Chand	Sh. Ashwani Kumar, Vijay Kumar, Rajinder Kumar, Sesh Ram, Ravi Kumar, Pyaar Chand (Cousin Brothers)	Land Cultivated Jointly and Produce is shared equally.
51	Sh. Keval Singh S/O Sh. Darumi Devi	250	0.236	P290-PLP- Choonala-70	Sh. Keval Singh S/O Sh. Darumi Devi	Sh. Keval Singh (Self)	
52	Sh. Ravi Praksh S/O Prem Chand, Sh. Dharam Chand S/O Sidhu Ram, Sh. Rattan Chand S/O Jagarnath	256, 257, 259, 262, 371/102, 372/102	0.612	P290-PLP- Choonala-69	Sh. Ravi Praksh S/O Prem Chand, Sh. Dharam Chand S/O Sidhu Ram, Sh. Rattan Chand S/O Jagarnath	Sh. Ravi Praksh, Sh. Dharam Chand, Sh. Rattan Chand (Cousin Brothers)	Land Cultivated Jointly and Produce is shared equally.
53	Smt. Gufli Devi W/O Bratu Ram, Subhash Chand, Raj Kumar, Pyar Chand S/O Bratu Ram	255, 388/254, 392/258, 359/268	0.372	P290-PLP- Choonala-72	Smt. Gufli Devi W/O Bratu Ram	Smt. Gufli Devi	Land Cultivated Jointly and Produce is shared equally.
				P290-PLP- Choonala-71	Pyar Chand S/O Bratu Ram	Pyar Chand (Self)	

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54	Sh. Om Prakash, Ramesh Chand, Mani Ram, Bihari Lal, Milap Chand S/O Jeenu Ram	252, 389/254, 393/258	0.395	P290-PLP- Choonala-74	Sh. Om Prakash, Ramesh Chand, Mani Ram, Bihari Lal, Milap Chand S/O Jeenu Ram	Sh. Om Prakash, Ramesh Chand, Mani Ram, Bihari Lal, Milap Chand (Brothers)	Land Cultivated Jointly and Produce is shared equally.
55	Sh. Gagan S/O Kuldeep Kumar	260, 261, 262/1	0.294	P290-PLP- Choonala-75	Sh. Gagan S/O Kuldeep Kumar	Sh. Gagan (Self)	
56	Sh. Johdu Ram, Sh. Govind Ram S/O Sh. Mehtaba Ram	264, 412/361/2 72, 390/254, 394/258	0.934	P290-PLP- Choonala-73	Sh. Johdu Ram, Sh. Govind Ram S/O Sh. Mehtaba Ram	Sh. Johdu Ram, Sh. Govind Ram (Self)	
57	Smt. Ajudhya Devi W/O Kehar Chand	311	0.312	P290-PLP- Choonala-77	Pritam Chand, Milap Chand S/O Kehar Chand	Pritam Chand, Milap Chand (Self)	
58	Smt. Savitri Devi W/O Bidhi Chand, Manohar Lal S/O Bikdu Ram	314, 315, 317	0.658	P290-PLP- Choonala-76	Smt. Savitri Devi W/O Bidhi Chand, Manohar Lal S/O Bikdu Ram	Smt. Savitri Devi, Manohar Lal (Self)	
59	Smt. Santosh Devi W/O Multan Chand	319	0.170	P290-PLP- Choonala-79	Bihari lal, Kehar Chand, Mehar Chand S/O Puran Chand	Bihari lal, Kehar Chand, Mehar Chand (Self)	
60	Smt. Tulsi Devi W/O Sh. Kahmir Singh	324, 326, 328, 451, 297	0.534	P290-PLP- Choonala-78	Vinod Kumar, Desh Raj S/O Punnu Ram	Vinod Kumar, Desh Raj (Self)	

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61	Sh. Veli Ram, Udham Singh, Paras Ram S/O Sh. Gantha Ram	327	0.197	P290-PLP- Choonala-81	Sh. Veli Ram, Udham Singh, Paras Ram S/O Sh. Gantha Ram	Sh. Veli Ram, Udham Singh, Paras Ram (Self)	
62	Sh. Shiv Kumar, Sh. Loku Ram S/O Vishamber Ram, Radha Ram S/O Khajana Ram	329	0.231	P290-PLP- Choonala-80	Sh. Shiv Kumar, Sh. Loku Ram S/O Vishamber Ram, Radha Ram S/O Khajana Ram	Sh. Shiv Kumar, Sh. Loku Ram, Radha Ram (Self)	
63	Smt. Vasanti Devi W/O Sh. Raghubir	429/381/2 94	0.854	P290-PLP- Choonala-82	Sh. Sarwan Kumar S/O Sh. Pinja Ram	Sh. Sarwan Kumar S/O Sh. Pinja Ram (Self)	
64	Smt. Gindho Devi W/O Sh. Bansi, Ashok Kumar, Surinder, Sunil S/O Gindho Devi	396/56, 411/361/2 72, 413/361/2 72	0.491	P290-PLP- Choonala-84	Smt. Gindho Devi W/O Sh. Bansi, Ashok Kumar, Surinder, Sunil S/O Gindho Devi	Smt. Gindho Devi, Ashok Kumar, Surinder, Sunil (Self)	
65	Sh. Balvir, Sh. Madan Lal S/O Roshan Lal S/O Arjun	395/258, 391/254	0.181	P290-PLP- Choonala-83	Sh. Balvir, Sh. Madan Lal S/O Roshan Lal S/O Arjun	Sh. Balvir, Sh. Madan Lal (Self)	
66	Sh. Yashpal, Pawan, Manoj S/O Sh. Janak Raj	370/102	0.160	P290-PLP- Choonala-86	Sh. Yashpal, Pawan, Manoj S/O Sh. Janak Raj	Sh. Yashpal, Pawan, Manoj (Self)	
67	Sh. Bikham Chand S/O Sh. Bhuri	428/381 /294	0.120	P290-PLP- Choonala-85	Sh. Bikham Chand S/O Sh. Bhuri	Sh. Bikham Chand (Self)	

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	Singh				Singh		
68	Sh. Uttam Chand S/O Sh. Bhuri Singh	427/381 /294	0.120	P290-PLP- Choonala-91	Sh. Uttam Chand S/O Sh. Bhuri Singh	Sh. Uttam Chand (Self)	
69	Sh. Daya Ram S/O Sh. Vidhiya Ram	414/273	0.234	P290-PLP- Choonala-90	Sh. Daya Ram S/O Sh. Vidhiya Ram	Sh. Daya Ram (Self)	
70	Sh. Partap Chand S/O Sh. Ragha Ram	374/106	0.128	P290-PLP- Choonala-89	Sh. Partap Chand S/O Sh. Ragha Ram	Sh. Partap Chand (Self)	
71	Sh. Mahinder Kumar S/O Sh. Partap Chand	425/365 /92	0.126	P290-PLP- Choonala-88	Sh. Mahinder Kumar S/O Sh. Partap Chand	Sh. Mahinder Kumar (Self)	
TOTAL			32.45				

(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	71	91	Nil	91	0.36

S.N	Range of land holding (in ha)	Total No. of cultivators and area	Category A	Category B	Category C
1	Upto 0.2	36No (7.2 ha)	-	-	36
2	More than 0.2 upto 0.4	32 No (8.64 ha)	-	2	30
3	More than 0.4 upto 0.8	15 No (9.81 ha)	-	-	15
4	More than 0.8	8 No (6.8 ha).	-	-	8

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 ChooNala categorized by the Gram Sabha as under:

- Total HH- 91 Nos. (As per Baseline Survey)
- APL: 79 Nos.
- BPL: 12 Nos.

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	-	-	-	-
2	SHG	-	-	-	-
5	Mahila Mandal	1989	-	56	Smt. Madhu Bala 7807350583
6	Yuva Mandal	-	-	-	-
7	Religious Organization	-	-	-	-
8	Others	-	-	-	-

(Source: HHS)

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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-

Sn		Type of livelihood/activities	No. of units	No's of animals	Self consumed/sale	Milk Production (if sold)	Value (Rs.) at Base year
1		Milch Animals	No's				
	a	Cow		101	Self		
	b	Buffalo		1	Self		
2		Meat/ Milk Animals	No's				
	a	Sheep		1			
	b	Goats		1			
3		Fisheries	No of farm enterprise	-	-	-	
4		Poultry	No's	4			
	a	Meat	-	-	-	-	-
	b	Eggs	-	-	-	-	
5		Mushroom	No. of farm enterprise	-	-	-	-
6		Sericulture	No. of farm enterprise	-	-	-	-
7		Apiculture	No. of farm enterprise	-	-	-	

(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	No. of farmers	Vegetable	Fruits	Food grains	Dairy	NTFP	Others	Remarks
Category A	0	-	-	-	-	-	-	Within village
Category B	2	-	-	2	2	-	-	Self consumption
Category C	89	-	-	56	33	-	-	Self consumption

(Source: HHS)

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2.4.5. Present Occupational Structure of Sub Project

The findings of the survey show 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 (No. of families)	Govt /Private service	Daily wagers	Agriculture and allied	Business	Others (Pensioner)	Remarks
	No of persons					
A (1)	0	0	0	0	0	-
B (2)	0	0	2	0	0	-
C (3)	48	15	0	5	21	-

(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 information on various enterprises present in the vicinity of sub project is as under:

- Shitake Cultivation Training Centre at Chadhiar Road CSKHPKV, Palampur
- Mushroom Cultivation at CSKHPKV, Palampur

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

S.N	Name of major enterprises	Detail about business activities	Business Volume (approx.)	Major key Enterprise (Name and Contact Number)	Marketing Channel
1	Kangra Pickle Unit, Hatwas	Fruit & Vegetables Pickle making		Sh. Rubhashan Dogra, 9816051770	All Local Markets
2	Fruit Canning Unit, Nagrota Bagwan	Fruit & Vegetables Pickle making		Deptt. Of Horticulture, 01892-252291	All Local Markets
3	SMY Palampur	Potato, Onion, Tomato, Cauliflower, Cabbage, Capsicum, Cucumber, Bottle gourd, Lady Finger, Banana, Apple, Brinjal, Okra, French bean, Pea, Papaya	Major arrival: Potato- 9700qt Tomato- 10030qt Onion- 8150qt Cauliflower- 8871qt Peas-4970qt Banana-6412qt	Yard Incharge: Sh. Arun Bhatia , 8894969680	All Local Markets, Punjab and Chandigarh

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4	SMY Kangra	Potato, Onion, tomato, Cauliflower, Cabbage, Capsicum, Cucumber, Bottlegourd, Ladyfingure, Banana, apple, Brinjal, Okra, Frenchbean, Peas, mango, Broccoli, Garlic	Major arrival: Potato = 8900 Qtl. Tomato = 11030 Qtl. Onion = 9050 Qtl. Cauliflower = 9230 Qtl. Peas Green = 3270 Qtl. Banana = 5134 Qtl.	Yard Incharge: Sh. Naresh Kumar = 98163-20010	All Local Markets and Punjab, Chandigarh, Delhi
5	SMY Nagrota Bagwan	Potato, Onion, tomato, Cauliflower, Cabbage, Capsicum, Cucumber, Bottlegourd, Ladyfingure, Banana, apple, Brinjal, Okra, Frenchbean, Peas	Major arrival: Potato = 3813 Qtl. Toamto = 4926 Qtl. Onion = 4018 Qtl. Cauliflower = 2829 Qtl. Peas Green = 3270 Qtl. Banana = 3443 Qtl.	Yard Incharge: Sh. Gulab Chand = 98168-83083	All Local Markets and Punjab, Chandigarh,
6	SMY Baijnath	Potato, Onion, tomato, Cauliflower, Cabbage, Capsicum,	Major arrival: Potato = 3110 Qtl. Toamto = 2870 Qtl. Onion = 3412 Qtl. Cucumber = 2990 Qtl	Yard Incharge: Sh. Pankaj Sharma = 9459638616	All Local Markets and Punjab, Chandigarh,

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		Cucumber, Bottlegourd, Lady finger, Banana, apple, Brinjal, Okra, Frenchbean, Peas, Radish	Cauliflower = 4214 Qtl. Cabbage = 3325 Qtl Peas Green = 3672 Qtl. Radish = 2306 Qtl.		
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SUB PROJECT DEVELOPMENT PLAN

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

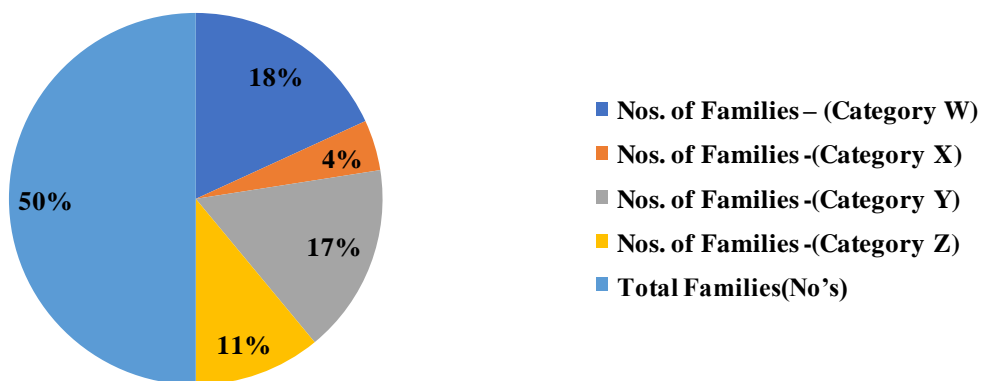
Nos. of Families – (Category W)	Nos. of Families - (Category X)	Nos. of Families - (Category Y)	Nos. of Families - (Category Z)	Total Families(No's)
33	8	30	20	91

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

Criteria for Wealth ranking

Category	Occupation	Annual Income +Livestock+ Physical Assests
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+ Kutcha/ Semi pucca House + Small Vehicle(may or may not be)
Category Y	Daily wage labour, Pensioner (less) others	Less than 1.5 lakh + Kutcha/ Semi pucca House
Category Z	BPL families, Women headed, Landless	As per data of Rural Development department and Household survey

Wealth Ranking for different Social Ranks





EXISTING
CROP
CULTIVATION
SCENARIO

SECTION III

SUB PROJECT DEVELOPMENT PLAN

3. EXISTING CROP CULTIVATION SCENARIO

Cropping pattern in Panapar 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	-	-	-	-	-	-	-	-	
			-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	
B	2	0.534	Wheat	0.30	4.95	Paddy	0.30	5.25	
			Veg	0.16	24	Veg	0.16	22.4	
			Fodder	0.074	8.88	Fodder	0.074	7.4	
C	89	29.876	Wheat	28.79	446.25	Paddy	28.79	460.64	
			veg	0.48	67.2	Veg	0.48	60	

SUB PROJECT DEVELOPMENT PLAN

			Fodder	0.606	66.66	Fodder	0.606	54.54	
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SUB PROJECT DEVELOPMENT PLAN

DETAIL OF CATEGORYWISE EXISTING FLAGSHIP CROPS AND OTHER CROPS (AREA, PRODUCTION&INCOME

(BEFORE CDP IMPLEMENTATION)

Table 22: *(Kharif and Rabi Season)*

Category of farmer	Crop	Flagship Crops				Crop	Cereal Crop				Crop	Other Crops (Fodder)				Total		
		Area(ha)	Production (qt)	Productivity (qt/ha)	Income		Area(ha)	Production (qt)	Productivity (qt/ha)	Income		Area(ha)	Production (qt)	Productivity (qt/ha)	Income	Area(ha)	Production (qt)	Income (in Rs)
A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
B	Cucurbits	0.08	11.2	140.00	22400	Paddy	0.3	5.25	17.5	10815	Fodder	0.074	7.4	100	888		23.85	
	Onion	0.08	12	150.00	26400	Wheat	0.3	4.95	16.5	10098	Fodder	0.074	8.88	120	1065.6	0.908	25.83	71666.6
C	Cucurbits	0.35	43.5	124.29	87000	Paddy	28.79	460.64	16	948918.4	Fodder	0.606	54.54	90	6544.8		558.68	
	Onion	0.13	18.2	140.00	40040	Wheat	28.79	446.245	15.5	910339.8	Fodder	0.606	66.66	110	7999.2	59.38	531.105	2000842

SUB PROJECT DEVELOPMENT PLAN

Income of Sub Project Before project implementation per ha

SN	Source	Before CDP Amount(in Rs)
1	Farming (Kharif Season)	1076565/-
2	Farming (Rabi Season)	995942/-
3	Others	0
Total Income		2072507/-
Total Income per ha		63867/-

SUB PROJECT DEVELOPMENT PLAN

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, IPM and improved farming practices to achieve the targets as per MoD. Various training on Food grain productivity and vegetable cultivation, Nursery Raising Techniques with the help of polytunnels etc 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: 23Crop detail Existing and Target as per MoD

Sr.No	Name of Crop	Area (in ha)	Pre-project yield (As per HHs)	Targeted Yield (as per MoD)	% deficit yield
1	Paddy (Kharif)	29.09	17.5qt/ha	29qt/ha	39.65
2	Wheat (Rabi)	29.09	16.5qt/ha	29qt/ha	43.10
3	Tomato	-	-	40t/ha	-
4	Cucurbits	0.64	15t/ha	23.5t/ha	36.17
5	Pea	-	-	12.6t/ha	-
6	Onion	0.64	14.7t/ha	20.0t/ha	26.5

(Source:HHS and MoD)

(*Note: Presently crops from Sr.No 3 &5 are not being grown in the CCA of sub project)

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 from within the target farmers of project area, 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 best of its 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 in successful cultivation around the project area and already existing marketing linkages, to be termed as **Flagship Crops** for the said sub project/ cluster while second is thrust 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, for the purpose. 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 produced for domestic needs, local retailing, or wholesale at local APMC. This may also

SUB PROJECT DEVELOPMENT PLAN

specify yearly plan of shifting from 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

S.N	Crop Season	Major Crops being grown	Major key growers (Name , Address and Contact Number)		Major Marketing Channels
1	Kharif	Cucurbits, Okra, Ginger, Turmeric	Mr. Sagar Kumar (Burli kothi)	9816475168	Local markets
			Mr. Niranjan (Burli kothi)	8894127311	
2	Rabi	Onion, Garlic, Cole crops and Leafy vegetables	Mr. Ashok kumar (Burli kothi)	9816050434	
			Mr. Desh Raj (Burli kothi)	9816974913	

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

S.No.	Crops	Area(in ha)	Production (qt)	Productivity (qt/ha)	Value at base year (in Rs.)
i	Paddy	29.09	509.1	17.5	959733
ii	Vegetables	-	-	-	-
iii	Tomato	-	-	-	-
	Cucurbits	0.64	96	150	109400
	Other Vegetables	-	-	-	-
iv	Pulses	-	-	-	-
v	oil seeds	-	-	-	-
vi	Fodder	0.68	68.00	100	7432
vii	Fruit Crops	-	-	-	-
viii	Others	2.04	-	-	-

SUB PROJECT DEVELOPMENT PLAN

					1076565/-
	Total	32.45			

B. Rabi Season

S.N,	Crops	Area(in ha)	Production(qt)	Productivity(qt/ha)	Value at base year (in Rs.)
i	Wheat	29.09	479.9	16.5	920438
ii	Oats	-	.	.	.
iii	Vegetables
	Onion	0.64	94.5	147.5	66440
	Pea	-	-	-	-
	Cauliflower	-	-	-	-
	Other Vegetables	-	-	-	-
iv	Pulses	-	-	-	-
v	oil seeds	-	-	-	-
vi	Fodder	0.68	81.6	120	9064
vii	Fruit crops	-	-	-	-
viii	Others	2.04	-	-	-
	Total	32.45			995942/-

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

SN	Assets	No. of units	Usage (commercial)	Income (in Rs)
1	Tractor	-		
2	Power tiller (7 HP)	1	Self-use	-
3	Thresher	-	-	
4	Chaffcutter	-	-	
5	Power weeder	-	-	
6	Sprayers	-	-	
7	Sprinklers/Drip	-	-	-
8	PolyHouse	1	Self-use	
9	Brush Cutter	-	-	
10	Others			

SUB PROJECT DEVELOPMENT PLAN

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

S.N.	Source of Income	Amount (in Rs)	Remarks
1	Farming (Crops)	2072507	-
2	Livelihood activities	0.00	-
3	Other agro activities through Agri implements	0.00	-
4	Others	0.00	-
Total Income (in Rs.)		2072507	
Income per ha (in Rs.)		63867/-	

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
(i) Farmers understand the importance of vegetable cultivation. (ii) Farmers of sub project are Willing for crop diversification (iii) Texture of soil is clay loam and had good water holding capacity which is suitable for veg production.	(i) Assured Irrigation facilities are not available and water resources are not properly managed. (ii) Scattered and small land holdings (iii) Land holdings located at long distance from house. (iv) Less experience in vegetable growing. (v) Lack of technical knowledge. (vi) Less marketing information	(i) Creation of assured irrigation facilities to be operated and maintained by local farmers (KVA). (ii) Site specific plans, livelihood activities along with crop diversification by marginal farmers. (iii) Low use of pesticides hence scope for organic farming. (iv) Support from agriculture extension services. (v) Providing farm machinery on cost sharing (vi) Programs to	(i) Lack of processing facilities and marketing channels. (ii) Labour Shortage. (iii) Stray cattle and wild life menace. (iv) Lack of storage facilities. (v) less involvement of youth in agriculture due to low profitability (vi) Non profitable farm size (v) Low returns from Agriculture occupation.

SUB PROJECT DEVELOPMENT PLAN

		motivate youth and next generation for adopting farming sector enterprises. (vi) Support from HPCDP JICA	
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3.6 Timeline of Agriculture Related Events of the Village

- Drinking water Scheme, high tap reached in village 21 years ago in the year 2000.
- Co-operative society established in village during 1990's 30 years ago.
- Farmers used to purchase seeds and other fertilizers from Private and Govt retailers of District Kangra.
- Livelihood dairy activity implemented from last 65 years and more.



**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 32.45 ha of CCA through Flow irrigation scheme to be constructed with an estimated cost of Rs. 80.97 lakhs. The perennial source of water is Choo nala

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).
- b) Solar fencing for vegetable growing areas/ sub projects as per DOA guidelines.
- c) Support to farmers for suitable farm machinery on cost sharing 50:50
- d) Provision of polyhouses of different sizes, low tunnels and walk in tunnels.
- e) Provision of plastic mulch, anti-hail net, shade net houses and method demonstration.

After getting assured annual irrigation facility in CCA, the support under above Activity (*a to e*) 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.

SUB PROJECT DEVELOPMENT PLAN

(*Note- The eligible advance farmers list shall be updated after every cropping season on the basis of crop diversification data and endorsed 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 three farmers are raising vegetable nursery and irrigation water is available through personal Tap Water and sometimes through kutchi kuhal at sub project. Most of the farmers are also growing vegetables but only for self consumption. The data regarding available assests collected and consolidated in below shown table

Table 29: Available Assets

Sr. No.	Assets	No. of farmers who own these assets	No. of farmers who use these assets	Remarks
1	WST- 9 & above cum capacity	0	0	
2	MIS system: Drip/Sprinkler	0	0	
3	Pumping Unit	0	0	
4	Polyhouse	1	1	
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 level of crop diversification. However general support on countering the labour issues in term of small farm equipments 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):

Sr. No.	Project support for infrastructure	Unit	Name of the beneficiaries
1	WST- 9 cum capacity	3No.	
3	Drip Irrigation System	Ha.	
4	Mini/Micro Sprinkler Irrigation System	Ha.	
5	Power Sprayer	3 No.	
6	Fencing	Rmt.	
7	Farm Machinery	3No.	
8	Mulching Sheet	Sq. m.	
9	Poly Tunnel 40 sqm	2 No.	
10	Poly house 105 sqm	1 No.	
11	Solar Photo Voltic System	1 Kw	

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12	Other aesthetic value-added structures (community ponds/landscaping units, etc.)	No.	
	Total		

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

Table:31 Detail of Farmer for Stage I

Name of farmer	Category	Area under vegetables	Infrastructure needed	Remarks
-	-	-		--



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 etc. The resources for crop production and scaling up of crop diversification available in the sub project area are summarized as under:

- Total Number of Cultivators- **91 No** (farming families are interested in crop diversification). Out of them 10 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 **32.45ha** area under CCA which is taken for planning for crop diversification.
- Average landholding- **0.36 ha** is the average area per cultivator of the sub project.
- **144 No of Male and 118 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) – 12.17 ha (to be achieved in 3 years)**

Target for Flagship Crop – 7.3 ha (Kharif -3.4 ha and Rabi –3.9ha): 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.

Crop Priority	Kharif Season	Rabi Season
1 st	Cucumber	Onion
2 nd	Okra	Potato
3 rd	Ginger	Garlic

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Target for general crop diversification- 11.2ha (Kharif – 5.9 ha and Rabi- 5.3 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 their by ensuring good nutrition for the family while saving the money on purchasing the same from the market.

Crop Priority	Kharif Season	Rabi Season
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 91cultivators 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 sought.

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

SUB PROJECT DEVELOPMENT PLAN

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 Farmer wise 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 Farmer wise Existing crop details (**Before CDP Implementations**) **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**

SUB PROJECT DEVELOPMENT PLAN

Table : 32 Crop Diversification Plan/Annual Agricultural Development Plan and Progress After Completion of Construction in Rabi Season															
Sub-Project	Choo nala			District		Kangra	Block	Bajnath		Staff in charge			Shivam Sood AEO		
CCA	32.45ha			No. of Custodian		91	No. of Cultivators	91		Date					
Existing condition				Proposed plan after construction											
(2022-23)				1st year (2024-25) 1st Season				2nd year (2025-26) 3th Season				3rd year (2026-27) 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)	29.09	1.65	47.99	Wheat (TS)	26.9	2.1	56.49	Wheat (TS)	25.1	2.45	61.495	Wheat (TS)	22.65	2.9	65.685
Vegetables	0.64	15	9.45	Flagship Crops				Flagship Crops				Flagship Crops			
Fodder	0.68	12	8.16	Onion	0.75	12.5	9.375	Onion	0.95	11.5	10.925	Onion	1.65	18	29.7
Barren	2.04			Potato	1.25	16	20	Potato	1.5	18.5	27.75	Potato	1.75	20	35
Total	32.45	28.65	65.6	General Crops				General Crops				General Crops			
				Garlic	0.35	6	2.1	Garlic	0.5	6.5	3.25	Garlic	0.75	10.5	7.875
				Pea	0.85	8.5	7.225	Pea	1.05	10.5	11.025	Pea	1.5	13.5	20.25
				Leafy Vegetables	0.95	11.5	10.925	Leafy Vegetables	1	12.5	12.5	Leafy Vegetables	1.1	20	22
				Cauliflower	0.75	13.5	10.125	Cauliflower	1.5	15	22.5	Cauliflower	2.05	23.5	48.175
				Fodder (Barseem)	0.65	11.5	7.475	Fodder (Barseem)	0.85	12.5	10.625	Fodder (Barseem)	1	20.5	20.5
				Total	32.45	81.6	123.715	Total	32.45	89.45	160.07	Total	32.45	91.9	201.01

SUB PROJECT DEVELOPMENT PLAN

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

Sub-Project	Choo nala			District	Kangra	Block		Palampur		Staff in charge		Shivam Sood AEO			
CCA	32.45ha			No. of Custodian	91	No. of Cultivators		91		Date					
Existing condition				Proposed plan after construction											
(2022-23)				1st year (2025 1st Season				2nd year (2026) 3th Season				3rd year (2027) 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			
Paddy	29.09	1.75	50.91	Paddy	26.55	2.3	61.065	Paddy	24.05	2.56	61.568	Paddy	22.65	2.9	65.685
Vegetable	0.64	15	9.6	Flagship Crops				Flagship Crops				Flagship Crops			
Fodder	0.68	10	6.8		0.95	10.5	9.975	cucumber	1.5	12.5	18.75	cucumber	1.9	15	28.5
Barren	2.04			Okra	1	15.5	15.5	Okra	1.75	16.5	28.875	Okra	2	18	36
Total	32.45	26.75	67.31	General Crops				General Crops				General Crops			
				Ginger	1	13	13	Ginger	1.25	17.25	21.5625	Ginger	1.5	18	27
				Turmeric	1	12.5	12.5	Turmeric	1.35	16.5	22.275	Turmeric	1.5	18.5	27.75
				Bottle gourd	0.85	12	10.2	Bottle gourd	1.05	15.5	16.275	Bottle gourd	1.15	15	17.25
				Brinjal	0.45	11	4.95	Brinjal	0.55	12.5	6.875	Brinjal	0.75	15.5	11.625
				Fodder (Sorghum)	0.65	13.5	8.775	Fodder (Sorghum)	0.95	14.5	13.775	Fodder (Sorghum)	1	18	18
				Total	32.45	90.3	47.8	Total	32.45	107.81	154.53	Total	32.45	120.9	289.56

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ABSTRACT OF CATEGORY WISE 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	-
Total Income per ha		-

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	479.9	10	15	Local Purchaser/ Vendors	Ceera, Wheat flour, Animal feed
2	Paddy	509.1	10	14	Local Purchaser/ Vendors	Flour, Animal feed
3	Ginger					Dry ginger powder, raw ginger, Pickle
4	Turmeric					Dry turmeric powder
5	Vegetables (Kitchen	-	-	Mix Pickle

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	Raddish, Cauliflower)		garden by 89 farmers			
6	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 economics 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
Cucumber	Mid-April- July	Harvesting- Washing- Grading- Marketing-
Onion	May –June	Harvesting-Grading-Marketing- Storage
Potato	Nov / March	Harvesting – Washing- Processing(Chips etc)- Marketing- Storage
Garlic	April-May	Harvesting -Processing(Garlic paste)- Marketing- Storage of bulb in case of bulk produce
Turmeric	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 products added
Flagship Crops						
1	Tomato					
2	Cucumber					
3	Onion					
4	Garlic					
5	Pea					
6	Potato					
7	..					

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8	..					
9	...so on					
Cereal Crops						
1	Wheat					
2	Maize					
	..					
	.. so on					
Oil Seeds Crops						
1						
2						
Other (Fruit Crops etc)						
1						
2						



4.4 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 10 No of vulnerable families already identified as BPL families and 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, beneficiaries. The following farming families were categorized for livelihood support activities. The categorized farmers gave their preference for different livelihood support activities. The detail of beneficiary and suitable livelihood activity in order of preference is summarized as under:

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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	Smt. Sushma Devi	P290-PLP-ChooNala-66	Dairy Farming	Mushroom Cultivation	-	
2	Smt. Kanta Devi	P290-PLP-ChooNala-09	Dairy Farming	Mushroom Cultivation	-	-
3	Smt. Sawana Devi	P290-PLP-ChooNala-37	Mushroom Cultivation	-	-	-
4	Smt. Vijay Kumari	P290-PLP-ChooNala-57	Dairy Farming	-	-	-
5	Sh. Raj Kumar	P290-PLP-ChooNala-62	Mushroom cultivation	-	-	-
6	Sh. Parkash Chand	P290-PLP-ChooNala-28	Dairy Farming	-	-	-
7	Sh. Vijay Kumar	P290-PLP-ChooNala-11	Mushroom Cultivation	-	-	-
8	Sh. Ramesh Chand	P290-PLP-ChooNala-05	Dairy Farming	-	-	-

(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	Smt. Sushma Devi	P290-PLP-ChooNala-66	Dairy Farming	Mushroom Cultivation	-	-
2	Smt. Kanta Devi	P290-PLP-ChooNala-09	Dairy Farming	Mushroom Cultivation	-	-
3	Sh. Vijay Kumar	P290-PLP-ChooNala-11	Mushroom Cultivation			
4	Sh. Ramesh Chand	P290-PLP-ChooNala-05	Dairy Farming			

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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	HPCDP FRN	Present Status of occupation	First Priority	Second Priority	Third priority	Remarks
1	Sh. Vijay Kumar S/O Sh. Ram Singh	P290-PLP-ChooNala-11	Labour Work	Learner Electrician	-	-	-
2	Sh. Harnaam Singh S/O Partap Chand	P290-PLP-ChooNala-23	Daily Wages	Plumbing	-	-	-
3	Sh. Narinder Kumar S/O Sh. Vishembar Lal	P290-PLP-ChooNala-19	Private Job	Driving Farm Machines	-	-	-
4	Sh. Parkash Chand S/O Sh. Punnu Ram	P290-PLP-ChooNala-28	Private Job	Driving Farm Machines	-	-	-
5	Smt. Vijay Kumari S/O Sh. Raj Kumar	P290-PLP-ChooNala-57	Daily Wages	Tailoring	Beauty Parlour	-	-

(Source: PRA Exercise)

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Final List of farmers selected for Service Sector 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	Sh. Parkash Chand S/O Sh. Punnu Ram	P290-PLP-Choo Nala-28	Private Job	Driving Farm Machines	-	-	-
2	Sh. Vijay Kumar S/O Sh. Ram Singh	P290-PLP-Choo Nala-11	Labour Work	Learner Electrician	-		-
3	Sh. Narinder Kumar S/O Sh. Vishembar Lal	P290-PLP-Choo Nala-19	Private Job	Driving Farm Machines	-	-	-
4	Smt. Vijay Kumari S/O Sh. Raj Kumar	P290-PLP-Choo Nala-57	Daily Wages	Tailoring			

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

(Source: MoD and Guidelines of Project)

Sr. No.	Particulars of Training	Planned
1	Workshop of group to develop objective and Norms	1No. Already conducted and 1 no. will be planned after construction.

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2	Workshop to discuss Principle and Practices of Irrigation and Water Management	1No. Already conducted and 1 no. will be planned after construction.
3	Field training on basic engineering skills	1No. planned in November month and 1 no. will be planned after construction.
4	Orientation and Need Assessments	1No. Already conducted and rest of 8 no. will be planned per season of CDP.
5	Training on Farm Management and Book keeping	1No. Already conducted and rest of 8 no. will be planned per season of CDP.
6	Workshop of farmers group on Cropping Pattern Arrangement	1no. of training will plan per year of CDP.
7	Subproject having CCA more than 25ha	8 demonstrations each 3000
8	Food grain productivity Training and Demonstration	4 no. of trainings will plan per season of CDP.
9.	Workshop of Group to develop objective and Norms for SHG	1 no. will be planned