











BMC SUB-COMMITTEE - SAGNAM-1
MICRO PLAN

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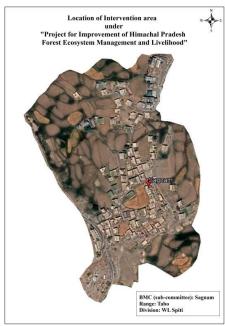
# **General Detail of Project Area:**

Gram Panchayat	Sagnam
BMC	Sagnam
<b>BMC Sub-Committee</b>	Sagnam 1
Forest Block	Pin
Forest Beat	Sagnam
Forest Range	Wildlife Range, Tabo
<b>Forest Division</b>	Wildlife Division, Spiti
Forest Circle	WildLife South, Shimla

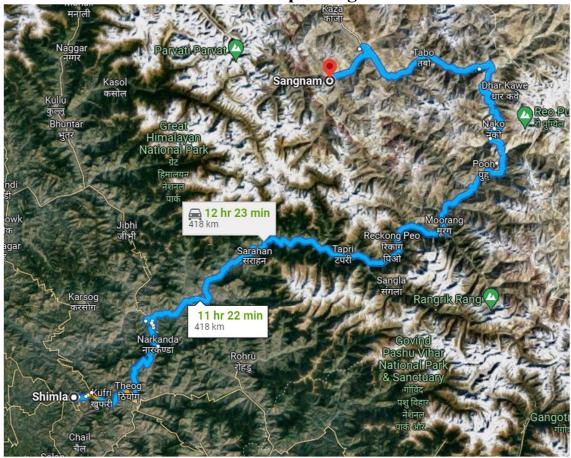


## LOCATION OF PROJECT AREA Boundary Map of Sagnam





# **Location Map of Sagnam**



## **Abbreviations and Acronyms**

ADMU	Assistant Divisional Management Unit
ANR	Assisted Natural Regeneration
BMC	Biodiversity Management Committee
ВО	Block Officer
FEMP	Forest Ecosystem Management Plan
EC	Executive Committee
CD&LIP	Community Development & Livelihood Improvement Plan
CIG	Common Interest Group
DMU	Divisional Management Unit
SMS	Subject Matter Specialist
FCCU	Forest Circle Coordination unit
Fgd	Forest Guard

FTU	Field Technical Unit
GIS	Geographic Information System
FD	Forest Department
GOHP	Government of Himachal Pradesh
GP	Gram Panchayat
На	. Hectare
HHs	Households
HP	Himachal Pradesh
HPFD	Himachal Pradesh Forest Department
IFMS	Integrated Forest Management System
IGA	Income Generation Activities
INR	Indian Rupees
ЛСА	Japan International Cooperation Agency of
MIS	Management Information System
MM	Mahila Mandal
NR	Natural Regeneration
NTFP	Non-Timber Forest Produce
O&M	Operation and Maintenance
PFM	Participatory Forest Management
PIHPFEM&L	Project for Improvement of Himachal Pradesh Forest Ecosystems Management & livelihoods
PMC	Project Management Consultant
PMU	Project Management Unit
PRA	Participatory Rural Appraisal
RRA	Rapid Rural Appraisal
RFO	Range Forest Officer
SHG	Self Help Group
SWC	Soil Water Conservation
ТОТ	Training of Trainers
VFDS	Village Forest Development Society
YM	Yuvak Mandal
WHS	Water Harvesting Structure

1. Introductionn

1.1 Project Brief

Project for Improvement of Himachal Pradesh Forest Ecosystems Management

and Livelihoods

1.2Project Objectives

The objective of the project is to manage and enhance the forest area ecosystem in the

project area, by sustainable forest ecosystem management, biodiversity conservation,

livelihoods improvement support, and strengthening institutional capacity, thereby

contributing to environment conservation and sustainable, socioeconomic development in the

project area in the state of Himachal Pradesh.

1.3 Project Target

The JICA mission and HPFD agreed that project activities under a non-departmental

mode shall be undertaken by the Village Forest Development Society (VFDS) which also

includes Joint Forest Management Committee (JFMC) based on Participatory Forest

Management Regulation and Biodiversity Management Committee (BMC) sub-committee

based on Biological Diversity Act, 2002 at Ward level. Both sides also confirmed that any

fund for the project activities shall be transferred directly from Divisional Management Unit

(DMU) to VFDS/BMC sub-committee.

1.4 Project Approach and Strategies

The project aims to sustainably manage and enhance the ecosystems of the forests in the

project area by project interventions under four components in correspondence with the

project outputs as below. Each component has the preparatory phase, implementation, and

phase-out phases.

Output 1: Sustainable Forest Ecosystem Management

Output 2: Biodiversity Conservation

Output 3: Livelihoods Improvement Support

Output 4: Institutional Capacity Strengthening

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# 1.5The basic approaches to be followed under the project to achieve the project objectives include;

- Empowering forest-fringe communities, particularly women, through sustainable livelihoods and ensuring positive involvement of rural people in managing their own environment.
- Strengthening community institutions such as the Village Forest Development Society (VFDS) and Biodiversity Management Committees (BMCs)/subcommittees.
- Alleviating poverty
- Appropriate Silvicultural operations utilization of the inherent potential of available rootstock, underplanting with suitable species, and block plantations in blank patches.
- Promoting inter-sectoral convergence (ISC).
- Interventions to be planned and implemented by VFDS/JFMCs and Biodiversity Management Committee/subcommittees (Micro planning).
- Capacity Development of Himachal Pradesh Forest Department and VFDS/JFMCs.
- Promoting forest-based and non-forest-based enterprises (such as the value addition and marketing of medicinal & aromatic plants, etc.) to generate sustainable employment, develop industries, and enhance the value of forests.
- Caring for the socially disadvantaged groups in the society, such as scheduled castes,
   Scheduled Tribes, forest dwellers, women, and other vulnerable people through
   proper safeguard measures as per the JICA guidelines and applicable Indian laws and regulations.
- Institution capacity strengthening of the Forest department and its personnel.

#### 1.5 Mode of Operation

The identified areas shall be divided into Participatory Forest Management (PFM) Mode and Departmental Mode. In case identified potential interventions areas are away from communities but interventions are required for the purpose of the Project and the PFM institutes (VFDS/BMC sub-committee) show their unwillingness to work in these areas, such interventions are to be conducted in the departmental mode. However, the PFM mode shall be selected where applicable from the viewpoint of sustainability. The major activities to be implemented under different modes include as below:

#### PFM (Participatory Forest Management) Mode

- Drainage Line Treatment including ex-situ Soil & Water Conservation (SWC) work
- Densification of moderately dense forests by Plantation of multi-purpose trees in degraded forests so as to convert open forests into moderately dense forests and moderately dense forests to dense forests; gap plantations should be preferred to be more effective in larger areas.
- Afforestation/ Improvement of Open/ Scrub Forest
- Rehabilitation of Forest Areas Infested with Invasive Species
- Improvement of Pastures/ Grasslands (including in-situ SWC works)
- Forest Fire Protection
- Forestry Intervention Outside of Forest Areas

#### **Departmental Mode**

- Improvement of Forest Boundary Management in Project Intervention Areas
- Improvement of Nurseries
- Seedling Production
- Non-PFM Drainage Line Treatment (ex-situ SWC work: including treatable
- Surface Erosion Control
- Secondary Silvicultural Operations for the Improvement of Existing Forests
- Improvement/ Densification of Moderately Dense Forest
- Improvement of Pastures/ Grasslands (including in-situ SWC work)
- Forest fire management Afforestation/ Improvement of Open/ Scrub Forest

In addition, the Community Development & Livelihood Improvement Plan (CD & LIP) will be executed by PFM institutions including Common Interest Groups (CIG), User Groups, Self-help Groups (SHGs), and Executive Committee of the BMC Subcommittees.

#### 1.6 Need for Sub-Committee Level Micro Plan

All the Project activities at the BMC sub-committee level shall be undertaken after a long-term (5-7 Years) development/ perspective micro plan is prepared.

- Micro Planning shall be considered as an empowering process that helps the BMC subcommittee to learn more about themselves, their resources, issues and challenges, strengths and weaknesses, and further plan for their own development and sustainable resource management.
- The implementation of PIHPFEM&L activities at the BMC sub-committee level shall be guided by an approved Micro Plan prepared by the respective BMC sub-committee. Micro plan preparation shall be the first step of implementation of the field activities.
- Micro Plan shall be a comprehensive development plan with a special focus on forest and livelihood development. The micro plan shall cover both forest and non-forest areas managed by the BMC sub-committee. The micro plan shall integrate the needs of the BMC sub-committee into the comprehensive plan through analysis of current conditions, social assessment, and interaction with the members, and with reference to the prescriptions of the Working Plan of the Forest Division.
- Micro Plan will not only focus on forestry activities and it should be comprehensive so as to include all development activities that may be taken up by other Government Departments and Agencies through convergence. During the preparation of the micro plan, the BMC sub-committee shall interact with officials of other departments and after the preparation of the Micro Plan, it should be shared with other Government Departments and Agencies for dovetailing their activities in the BMC sub-committee.

#### • A Micro Plan shall consist of two types of sub plans;

- i) Forest Ecosystem Management Plan (FEMP) and,
- ii) Community Development and Livelihood Improvement Plan (CD&LIP) and shall be aggregated by FTU for each range.
- Under the Micro Plan composed by FEMP and CD&LIP, the broad action plan is to be prepared for 5 years based on the 10 years vision. During the exercise, the achievements of the previous year shall be assessed, and identify issues and corrective measures to further increase the efficiencies and effectiveness of the project implementation.
- In the annual planning undertaken during the 4th year, a broad action plan shall be prepared for the forthcoming 5 years. The 2<sup>nd</sup> 5-year action plan process shall follow the same step as discussed in the above section.
- A copy of the Micro Plan, when prepared, shall be shared with the Gram Panchayat, Block Development Office (BDO), and other Line Departments for dovetailing their activities in the BMC sub-committee.
- Although Micro Plan shall be prepared for 6-8 years, it would be revisited annually.

## 2. Basic Information

## 2.1 Basic Information Sheet on Micro plan

1.	Name of the BMC sub-committee	Sagnam
2.	Name of the Ward	Sagnam 1
3.	Registration No. of BMC subcommittee	
4.	Name of Gram Panchayat	Sagnam
5.	Name of the FTU/ Range	Tabo
6.	Name of the DMU/Forest Division	Kaza, Spiti
7.	Name of the District	Lahul &Spiti
8.	Period of Micro Plan	24/06/2023 to 31/07/2023
9.	Date of approval of Micro Plan by Executive	(BMC resolution for approval of micro
	Committee of BMC	plan attached)
	sub-committee	
10.	Date of approval of Micro Plan by	9/12/23
	DFO/ Head of DMU	
11.	Key team members engaged in	FTU Chhodon
	Preparation of Micro Plan	FTU Minakshi
		SMS Ashutosh Pathak
12.	Date of General House conducted & resolution	20/04/2021
	passed	
13.	Number of Participants	28
14.	Number of members in EC	Male:4 Female:8 Total:8

## 2.2 General Profile of Selected BMC Sub-committee

S. No	Description	Current Status
3.	Date & Registration of BMC Sub-committee	03/06/2022
4.	No. of Revenue Ward/ Forest	1
	Villages covered	
5.	Total number of households (HHs) in Ward	43
6.	Total No of households representing BMC subcommittee	7
7.	Total Population	225
8.	Total General Categories HHs	Nil
9.	Total SC HHs	1
10.	Total ST HHs	42
11.	Total IRDP/BPL HHs	7
12	Total Livestock Population	267
13.	Bank account details	Saving Account
	Name of the bank	SBI
	Date of account opened	
	Account number /IFSC	

## 2.3 Details of the EC Members of the BMC Sub-Committee Tabo

S.No	Name	M/F	Age	Designation	Occupation	Contact No.
1.	KHUNKHEN	M	47	President/Chairman/Director	Farmer	9418239403
2.	CHHERING ZANGMO	F	23	Vice President/Vice Chairman	Student	N/A
3.	LOBZANG GAILSON	M	44	Secretary/General Secretary	Farmer	N/A
4.	TANZIN CHHODON	F	32	Treasurer/ Finance Secretary	Student	N/A
5.	CHHOPEL ANGMO	F	32	Executive Member/ Member	House Wife	N/A
6.	CHHERING TAMFAL	M	37	Executive Member/ Member	Farmer	N/A
7.	SONAM LUNDUP	M	38	Executive Member/ Member	Farmer	N/A
8.	SONAM CHHUKIT	F	29	Executive Member/ Member	House Wife	N/A

#### 2.4 Micro Planning Process

The BMC Subcommittee-level micro-planning process consists of Forest Ecosystem Management Plan (FEMP) and Community Development & Livelihood Improvement Plan (CD&LIP). For activities to be implemented through line departments/agencies, details of the Convergence activities are also added to the Micro Plan. The detailed process followed in the preparation of the micro plan focuses on the information collection from primary sources, secondary sources, ward-level meetings, and other meetings held with primary and secondary stakeholders. The information was also collected from different sections of the community using Participatory Rural Appraisal (PRA) and Rapid Rural Appraisal (RRA) techniques.

The information collected mostly focused on PRA techniques focused on group discussions with the specific groups which include vulnerable families; ST; SC and Women. The information collected was triangulated with different groups and at last finalized in a plenary session.

The information collected was analyzed jointly with the active members of the BMC subcommittee and other community participants. A meeting was conducted to share the primary information collected. The changes were incorporated based on the participant's consensus.

The participants were asked to gather in a group to discuss and identify their problems, perceived needs, and priorities by giving certain exercises of PRA tools and finally suggested the possible solutions to deal with their needs & priorities which emerged during the group exercises where women and men were given maximum opportunities to bring forward forest-related and livelihood related issues. A detailed set of perceived problems and solutions were developed jointly by Sub-Committee members and the micro-planning team of the project.

The perceived problems, solutions, and information collected through primary and secondary sources were discussed with the General House of Sub-Committee. A refined set of problems and solutions emerged to take it forward for inputs from the technical staff and the experts to finalize the Micro Plan, especially the FEMP. The Executive Committee was also formed in the General House according to the HP Forestry Project guidelines. For Forestry interventions, User Groups were also formed.

The technical staff of HPFD and the Community focused on quantification and decided on a tentative target for different interventions and prepared cost estimates based on the Project

norms and locally prevailing rates. The micro plan is finalized by consultation with Divisional Management Unit (DMU) staff, Field Technical Unit (FTU) staff, and Executive Committee of Sub-Committee and inputs from the other experts.

The details presented in the following table indicate the critical steps followed in microplanning process.

S.	Sequential Steps Followed – Addition can be made as per	Date	Frequency
N.	the locally followed process		
1.	Community awareness building meetings/workshops	20/04/2021	-
	organized at GP & ward Level		
2.	GP Consent to work with project	20/04/2021	-
3.	Sub-Committee formed/Executive committee constituted	03/06/2022	_
	/Sub-Committee Registered.		
4.	Action plan prepared with Sub-Committee for Micro Plan	15/02/2023	-
	Preparation		
5.	Micro planning process started /PRA exercise conducted	22/06/2023	_
	(From- To)	to	
		31/07/2023	
6.	Participatory information analysis carried out (From- To)	15/07/2023	-
		to	
		29/07/2023	
7.	Negotiation/planning process held (From- To)	02/08/2023	-
		to	
		30/08/2023	
8.	Participants involved in negotiation/planning process (Male	-	20 M
	& Female)		8 F
9.	Presentation of the draft plan in village/ward assembly for	28/08/2023	-
	approval		
10.	Documenting the micro plan (From-To)	05/09/2023	-
		to	
		10/10/2023	

11.	MOU signed between DMU and EC of Sub-Committee for	24/07/2023	-	
	undertaking micro planning and implementation			

#### 3. Socio-Economic Profile of Tabo

#### 3.1 General Description of the BMC Sub Committee

#### 3.1.1 History of Area Selected

Sagnam is a Village in Spiti Tehsil in Lahul and Spiti District of Himachal Pradesh State, India. It is located 55 KM towards East from District headquarters Kaza. 400 KM from State capital Shimla. Sagnam is surrounded by Naggar Tehsil towards west, Lahul Tehsil towards North, Kullu Tehsil towards South, Drang Tehsil towards west. Keylong, Mandi, Sundarnagar, Dharamsala are the nearby Cities to Sagnam. Sagnam is the largest village of Pin Valley, in the cold desert landscape of Lahaul and Spiti in Himachal Pradesh. The area is the habitat of Asiatic ibex, blue sheep, and the snow leopard animals that had been observing, as part of my larger study on this mountain ecosystem. is valley, in the Pir Panjal Range of the Himalayas, is a stronghold of ibex, a wild goat and important prey for the endangered snow leopard.

#### 3.1.2 Location of BMC Sub-Committee Area

#### **BMC Sub-Committee falls under;**

Village	Sagnam
Panchayat	Sagnam
Block	Pin
District	Lahul &Spiti
Beat	Sagnam
Range	WL Range Tabo
Forest	WL Spiti
Division	

Location map of Sub-Committee is attached on Page No.

#### 3.1.3 Boundaries

The boundary of selected BMC Sub-Committee area is under

East	River
West	River
North	Mountains
South	Pin River

#### 3.1.4 Distance from

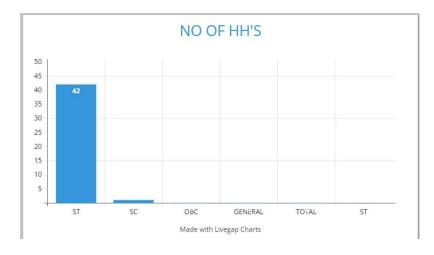
WL Range Office:	52 KMs
WL Division Office:	50 KMs
State Capital Shimla:	400 KMs approximately.

### 3.1.5 Important features of BMC Sub-Committee

The Sangan village is located in the Pin Valley National Park which is the only National Park in Himachal Pradesh which is situated in the cold desert area. The park covering an area of 675 sq km as core zone and 1150 km as buffer zone. his park is especially renowned for the protection of endangered Snow-Leopard, the estimated population of which is about twelve. Other species are Ibex, Bharal, Red Fox, Marten, Weasel, Pika, Snow Cock, Bearded Vulture, Chukor, Golden Eagle, Griffon, Himalayan Chough, Raven

#### 3.2 Social Composition

Households (HHs)	ST	SC	OBC	General	Total
No of HHs	42	1	-	-	43
% of HHs	97.5	2.5			100



In Sagnam 1 BMC Sub-Committee 42 households belongs to ST category (97.5%) and 1 Household (2.5%) belongs to SC category out of 43 households in total.

#### 3.3 Population

			Population (Number)			
Social category	Male	Female	Total	Male	Female	Total
	Adults	Adults	Adults	Children	Children	Children
ST	78	75	153	31	35	66
SC	2	2	4	1	1	2
OBC	-	-	-	-	-	-
General	_	-	_	_	_	_
Total	80	77	157	32	36	68

- The total population of the BMC Sub-Committee is 225.
- The total male population is 112 and the total female population is 113.
- The major composition of the BMC Sub-Committee is constituted by the ST category followed by the SC category and none of them belongs to OBC and general category.

#### 3.4 Educational Status

#### 3.4.1 Educational Status (Adults)

Level		Number	
	Male	Female	Total
Literate without formal education	15	10	25
Primary education	5	8	13
Middle education (10 <sup>th</sup> )	15	16	31
Higher Secondary (12 <sup>th</sup> )	25	20	45
Graduates and above	20	13	33
Professional courses	0	0	0
Total literates	0	10	10
Total illiterates	80	67	147
Percentage (literates)	100%	87%	93%

- 93% of people are literate in BMC Sub-Committee Sagnam 1.
- The literacy rate of the male population is around 13% higher than the female population.

#### 3.5 Economic Categories

#### 3.5.1 Wealth ranking as per PRA exercise

Category	Category Criteria/Indicator		Category code**
Better of	Government Job, Work – Part-time, Business	22	A
Manageable	Agriculture and Livestock	08	В
Poor	Marginal farmers, Wage labors	10	С
Vulnerable (need immediate attention)	No income source, part-time labour	3	D

## 3.5.2 Above and Below Poverty Line (As per the Government Criteria)

	Total	APL	BPL
No of HHs	43	36	7
% of HHs	100%	83%	16.2%

## 3.6 Access to Basic Facilities/Services

Facilities/Services	Availability (% HHs)	Distance (Km)	Current status
Toilets	100 %	-	70% of toilets are without flushing tanks. Almost 95% of toilets are in good condition and are being used.
Toilets with flush water	30%	-	The toilets are in good condition and are being used regularly but erratic supply of water throughout the year.
LPG	100%	50 Km (Kaza)	The use of LPG is not regular as 8-10 cylinders are used per year per household.
Improved stove	100%	-	All HHs have improved stoves for heating and cooking also.

Electricity	100%		Almost every household has an electricity connection but
			electricity fails during harsh
			winter and there is the
			problem of irregular supply
			also.
Drinking water	100%	-	All HHs have a drinking
C			water connection. Much
			more problem arises during
			winter. Tube -wells are not
			in proper working condition.
Health services	100%	45KMs	Government Medical
			services are available in
			Tabo.
Veterinary services	100%	0-2 KMs	Veterinary Services are
			available within village.
Banks	100%	0-2KMs	Himachal Pradesh Gramin
			Bank is available within the
			area.
Markets	100%	45Kms	Tabo is the main market.
Anganwadi	100%	0-1Kms	Anganwadi is located in
			Sagnam.
Primary schools	100%	0-1 Kms	Primary school is situated in
			Sagnam.
Secondary schools	100%	0-2 Kms	Secondary school is situated
			in Sagnam.
PDS	100%	0-2 KMs	PDS available within
			Sagnam with better service.
Transport	100%	1-2 KMs	Government Bus service is
			available. Private taxi
			services are also available.
Telecommunication	100%	-	All households have mobile
			phone service but

			internet/network connection
			is poor.
Post Office	100%	0-1 KMs	Situated at Sagnam Village.

## 4. Resource Analysis

#### 4.1 Land Resources

#### 4.1.1 Land Use Pattern

Land use	Total	Land under	Forest	Pasture	Waste	Settlement	Water
	land	cultivation	land	land	land	Area	body
							area
Area (ha)	126-16-	22-15-41	104-00-	73-65-94	2-79-83	01-99-92	-
	06		65				
% Area	100	17.5	82.41	58.3	2.2	1.5	-
(ha)							

#### 4.1.2 Land Ownership Pattern

Land	Private	Community	Panchayat	Forest	Vet	Other
Ownership	land	land	land	land	hosptal	
Area (ha)	22-15-	0-07-54	-	104-00-	0-05-35	
	41			65		
% Area (ha)	17.5	-	-	82.4	-	-

#### 4.2 Forest Resources

#### 4.2.1 Forest Area

#### 4.2.1.1 Site selection and location

The site has been shortlisted by DMU and his field staffs. Biodiversity Management Committee Sagnam had formed by Himachal Pradesh State Biodiversity Board under Biodiversity act 2002. The subcommittee Sagnam falls under the Sagnam biodiversity management committee.

# 4.2.1.2 Data from Wildlife Forest Division for Community Based Biodiversity Management Plan

#### 4.2.1.3 Description of the forest (Sanctuary Area)

The entire Spiti region is classified under the 'Trans-Himalayan Cold Desert' Bio-geographic zone. The vegetation in Spiti is classified as 'Alpine scrub' or 'dry alpine steppe' vegetation.

Such areas are characterised by scattered and open bush-land mainly with herbaceous and shrub species such as *Artemisia spp.*, *Lonicera spp.* and *Caragana spp.* The graminoids such as *Festuca spp.*, *Poa spp.* and *Stipa spp.* are found in the area but by and large their biomass seems to be depleted (Mishra 2001). Today, the two important vegetation formations in the region include open or desertsteppe dominated by grasses and sedges (e.g., *Stipa spp.*, *Leymus spp.*, *Festucaspp.*, *Carex spp.*) at altitudes up to 4,600 m, and dwarf shrub steppes between 4,000 and 5,000m dominated by shrubs such as *Caragana spp.*, *Artemisia spp.*, *Lonicera spp.* and *Eurotia spp.* Mesic sites such as river valleys and areas along springs and glaciers are often covered by sedgemeadows (*Carex spp.*, *Kobresia spp.*). Vegetation occurs up to 5,200 m, but becomes sparse above 4,800 m, and is limited to forbs such as *Saussurea spp.* and cushionoid plants such as *Thylacospermum spp.* The important plant families include Graminae, Cyperaceae, Brassicaceae, Ranunculaceae.

#### Geology, Rock and Soil:

The area is characterised by sharp changes in a combination of quartzite, shales, limestones and conglomerates. Most of the area is rich in fossils, mainly brachipods, trilobites, ammonites, bivalves and also certain corals and algae, indicating its Tethyan past. The high-altitude desert soils are predominantly sandy and shallow derived mainly by disintegration due to marked diurnal and seasonal fluctuations of temperature. The soils are mostly silty loam to silty-clay loam in texture with a slightly alkaline pH, poor organic matter and water holding capacity. The soils are mostly silty loam to silty clay loam in texture with slightly alkaline pH, poor organic matter and water holding capacity. The soils are low in available nitrogen, phosphorus, potassium and carbon, however are better supplied in calcium.

#### **Terrain:**

All of Spiti occurs above an elevation of 3,000 m. The lowest point is where the river flows into the Kinnaur district near Hurling. The slopes on the right bank of Spiti are more rugged and have longer streams, while the left bank is less rugged. In fact, there is a 40 km plateau from Kibber to Demul on the left bank; which also extends into much of the mid Lingti valley, covering over 500km<sup>2</sup>.Of the 7,600 km<sup>2</sup> covered by Spiti. There are Shilla (6,132m) which are popular climbing destinations. Apart from the access along the main Spiti River, the important passes are Pir Panjal range, the Parang la (5578m) and Takling la (5575m) with the Pare Chu Valley, on the Zanskar range, and the Kunzam la (4590m) with the Chandra Valley.

#### Climate:

Spiti occurs on the leeward side of the Pir Panjal branch of the Himalaya that cut of the Monsoonal effect from the plains rendering the area dry and cold. Westerly disturbances in the winter bring some precipitation in the form of snow. The temperature ranges from -  $40^{\circ}$ Celsius in peak winter  $25^{\circ}$  Celsius in peak summer, with the minimum temperature remaining sub-zero from September to April in most place. Severe winds occur almost every day and are further reason for the desiccated atmosphere and lack of trees. The overall climate is thus dry and cold with a long winter extending from mid-November to March.

#### Precipitation, Temperature, Wind Speed and Humidity:

Recent local reports and metrological data suggest a marked change in weather patterns in Spiti such as an increase in summer precipitation and a decline in winter snows. Winter snows are important for both providing irrigation water through snowmelt streams in summer

as well as soil moisture for rangelands during the crucial spring and early summer period. Late summer rains in July- August are seen as threats to standing crop.

#### Range of wildlife, status distribution on and habitat:

The mammalian diversity of Spiti is not exceptionally large, but range-restricted species occur here, the primary large mammals reported from the landscape are the snow leopard, Asiatic ibex, Bharal or blue sheep, Tibetan wolf and red fox. All of which are nationally threatened, and many are also internationally threatened. based on existing literature, prominently represented in the avifaunal composition are Considering the good representation of high-altitude habitats and their potential to hold good populations of representative avifauna, Kibber WLS Snow Partridge, Hume's Short-toed Lark (Calandrella acutirostris), Rosy Pipit (Anthusroseatus), Robin Accentor (Prunella rubeculoides), Brown Accentor (Prunella fulvescens), White-winged Redstart, Himalayan Griffon (Gyps himalayensis), Himalayan Snowcock (Tetragolallushimalayensis), Snow Pigeon(Columba leuconota) etc.

#### **Alpine Pastures:**

The entire Spiti region is classified under the 'Trans-Himalayan Cold Desert' (Zone 1) Bio geographic zone with the province 'Ladakh Mountains' covering most of the southern bank and the 'Tibetan Plateau' covering the northern bank as per the Wildlife Institute of India's Bio geographic classification. The vegetation in Spiti is classed as 'Alpine scrub' or 'dry alpine steppe' vegetation. Such areas are characterised by scattered and open bush-land mainly with herbaceous and shrub species such as *Artemisia spp.*, *Lonicera spp.* and *Caragana spp.* The graminoids such as *Festuca spp.*, *Poa spp.* and *Stipa spp.* is found in the area, but by and large their biomass seems to be depleted. Today, the two important vegetation formations in the region include open or desert steppe dominated bygrasses andsedges (e.g., *Stipa spp.*, *Leymus spp.*, *Festuca spp.*, *Carex spp.*) at altitudes up to 4,600 m, and dwarf shrub steppes between 4,000 and 5,000 m dominated by shrubs such as *Caragana spp.*, *Artemisia spp.*, *Lonicera spp.* and *Eurotia spp.*Mesic sites such as river valleys and areas along springs and glaciers are often covered by sedge meadows (*Carex spp.*, *Kobresia spp.*). Vegetation occurs up to 5,200 m but becomes sparse above 4,800 m, and is limited to forbs such as *Saussuera* spp. And cushionoid plants such as *Thylacospermum spp.* 

These pastures are found above the tree line up to limits of PA. A variety of medicinal herbs are found in these pastures. Food, water and shelter are the primary requirements of any living being. Sufficient quantity of food and water both for animals and birds is available in the sanctuary. Some parts of the sanctuary are disturbed due to grazing of domestic and stray cattle. For wild life this factor is very important as hiding places, shelter, nesting, resting, play, food availability all get disturbed and wild life avoid these areas. The food source in shape of grass and other biomass is present deficient quantity. Different herbivores prefer diverse food under different circumstances so nothing can be said about quality of food availability. Even sufficient food present may not be available for the wildlife species due to various factors that attract or repel wild life.

#### 4.2.1.4 Selection of Intervention areas, planning and treatment:

The BMC subcommittee has been selected as site by DMU Kaza and his field staff by following project guidelines which included forest being in a state of degradation to various degrees, deficient to meet with the demand and supply chain to the local right holders around the forest.

The Potential intervention areas/ treatment plots have been identified during micro planning exercises by technical staff (Fgd, Block Officer and Range Officer/ ACF Kaza). The activities to be carried out stands discussed with villagers in detail during PRA exercises. The selected plots, community land/patches are either open areas or are blank, which would be planted with multipurpose species varying from 500-1000 per hectare.

#### 4.2.1.5 Data and Maps on Grazing, fire and other risks

#### Grazing

Grazing causes problems to wildlife such as:

- Competition of food
- Disturbance
- Transmission of diseases
- Soil erosion
- Increase in the quantity of unpalatable grasses and weeds.

Illegal grazing is occasionally a problem in the area as stray cattle from in and around the protected area graze inside the sanctuary mixed with the cattle of right holders, thus, disturbing the wildlife. This problem is being eradicated with the enforcement of guidelines received from the MoEF & CC regarding suspension of rights.

#### Wildfires

The Area falls under alpine zone and are no trees. During long winter, the area is covered with snow and glacier. So, no incidence of the forest fire in this area.

#### 4.2.1.6 Human Wildlife Conflict

Wildlife conflicts often hamper the wellbeing of people and the information on the issue was facilitated during the PRA exercise. Information about wild animal causing damage was almost no in this particular site. But people as well as their livestock often gets harmed by stray dogs.

#### **Prescriptions:**

Awareness programme/workshops should be organized for local people to make them aware about do-s and don'ts in the case of encounter with wild animals. The local people should be made aware about various departmental welfare programmes, especially about the procedure to file compensation claim.

A rapid response team consisting of trained officials along with equipment's should be stationed either at Range or Division HQs to deal with any exigencies.

Fodder tree plantations shall be developed on the periphery of the villages and stall feeding may be promoted.

#### 4.2.1.7 Data and Maps on intervention areas/treatment plots

Cost norms applied for calculation are as per Forest Department approved norms. Plants, pit sizes are accordingly to models prescribed and approved by Forest Department and Project guidelines. The forests have been visited by team again and again and as per the site

conditions treatment plots have been prescribed. The soil conservation, soil erosion maintenance and soil regeneration works are applicable in this area. Fencing part has been critically analysed keeping in a view of local conditions as well as biotic pressure and accordingly prescribed.

S.N.	Plot Name	Plot No.	Area	Latitude	PFM Mode	FD Mode
				Longitude		
1	Sagnam	1	10	32.0306°N	Yes	-
				78.0570E		

4.3 Trend in Community Dependency on Forests (as per PRA exercises)

Area conservation acts and oth rules and regulations but access is easy.  Major Abundant.  Some species becomes very rare due to over exploitation but the majo species are still abundant till now.  Major Hippophaetibetana Aconogonum Rosa webbiana  Major NTFPs Rosa webbiana (Wild rose) NTFPs like wild onion, ratanjot, salampanja etc becomes rare. Other Arnebiaeuchroma(Ratanjot) Pedicularis Dactylorhizahatagirea(Salampanja)  Fodder Fodders like Trigonella emodi availability And Festuca rubra were easily available  Many species of bushes were used for fuelwood along with the collection of cow dung used to be the main source of fuelwood.  Major NTFPs like wild onion, ratanjot, salampanja etc becomes rare. Other species are still abundant These fodder species are still abundant availability species of bushes were used for fuelwood along with the collection of cow dung from the grazing/pasture area. The collected cow dung used to be the main source of fuelwood.	4.5 Henu in	Community Dependency on Forests (as per	1 ICA EXELCISES)
Area conservation acts and oth rules and regulations but access is easy.  Major Abundant.  Some species becomes very rare due to over exploitation but the majo species are still abundant till now.  Major Hippophaetibetana Aconogonum Rosa webbiana  Major NTFPs Rosa webbiana (Wild rose) NTFPs like wild onion, ratanjot, salampanja etc becomes rare. Other Arnebiaeuchroma(Ratanjot) Pedicularis Dactylorhizahatagirea(Salampanja)  Fodder availability And Festuca rubra were easily available  Many species of bushes were used for fuelwood along with the collection of cow dung used to be the main source of fuelwood.  Conservation acts and oth rules and regulations but access is easy.  Some species becomes very rare due to over exploitation but the majo species are still abundant till now.  NTFPs like wild onion, ratanjot, salampanja etc becomes rare. Other species are still abundant ratanjot, salampanja etc becomes rare. Other species are still abundant species are still abundant availability And Festuca rubra were easily available  Many species of bushes were used for fuelwood along with the collection of cow dung from the grazing/pasture area. The collected cow dung used to be the main source of fuelwood.	Criteria	Availability & Access in the Past	_
species available  Trigonella emodi  Dactylorhizahatagirea Festuca rubra Hippophaetibetana Aconogonum Rosa webbiana  Major NTFPs Rosa webbiana (wild rose) available Allium canadense (Wild onion) Aconitum Arnebiaeuchroma(Ratanjot) Pedicularis Dactylorhizahatagirea(Salampanja)  Fodder availability Fodders like Trigonella emodi availability And Festuca rubra were easily available  Fuelwood availability  Many species of bushes were used for fuelwood along with the collection of cow dung from the grazing/pasture area. The collected cow dung used to be the main source of fuelwood.  Terry rare due to over exploitation but the majo species are still abundant till now.  Due to Over foraging sor NTFPs like wild onion, ratanjot, salampanja etc becomes rare. Other species are still abundant  These fodder species are still abundant Along with local bush species the practice of collecting cow dung is sti in practice to fulfil the fu wood requirement. Pastur area is in easy access.		Easily available with very limited restrictions.	_
available  Dactylorhizahatagirea Festuca rubra Hippophaetibetana Aconogonum Rosa webbiana  Major NTFPs Rosa webbiana (Sea buckthorn) NTFPs available Allium canadense (Wild onion) Aconitum Arnebiaeuchroma(Ratanjot) Pedicularis Dactylorhizahatagirea(Salampanja)  Fodder availability Fodders like Trigonella emodi availability And Festuca rubra were easily available Fuelwood availability Many species of bushes were used for fuelwood along with the collection of cow dung from the grazing/pasture area. The collected cow dung used to be the main source of fuelwood.  Exploitation but the majo species are still abundant till now.  Due to Over foraging sor NTFPs like wild onion, ratanjot, salampanja etc becomes rare. Other species are still abundant ratanjot, salampanja etc becomes rare. Other species are still abundant species are still abundant Aconogonum Rosa webbiana  NTFPs like wild onion, ratanjot, salampanja etc becomes rare. Other species are still abundant species are still abundant ratanjot, salampanja etc becomes rare. Other species are still abundant species are still abundant ratanjot, salampanja etc becomes rare. Other species are still abundant species are still abundant ratanjot, salampanja etc becomes rare. Other species are still abundant species are still abundant ratanjot, salampanja etc becomes rare. Other species are still abundant ratanjot, salampanja etc becomes rare. Other species are still abundant ratanjot, salampanja etc becomes rare. Other species are still abundant ratanjot, salampanja etc becomes rare. Other species are still abundant ratanjot, salampanja etc becomes rare. Other species are still abundant ratanjot, salampanja etc becomes rare. Other species are still abundant ratanjot, salampanja etc becomes rare. Other species are still abundant ratanjot, salampanja etc becomes rare. Other species are still abundant ratanjot, salampanja etc becomes rare. Other species are still abundant in this area ratanjot, salampanja etc becomes rare. Other species are still abundant in this area ratanjo	Major	Abundant.	Some species becomes
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Hippophaetibetana Aconogonum Rosa webbiana  Major Hippophaetibetana (Sea buckthorn) NTFPs Rosa webbiana (wild rose) Allium canadense (Wild onion) Aconitum Arnebiaeuchroma(Ratanjot) Pedicularis Dactylorhizahatagirea(Salampanja)  Fodder availability Fuelwood availability And Festuca rubra were easily available Fuelwood availability Many species of bushes were used for fuelwood availability And Festuca rubra the collection of cow dung from the grazing/pasture area. The collected cow dung used to be the main source of fuelwood.  Hippophaetibetana (Sea buckthorn) NTFPs like wild onion, ratanjot, salampanja etc becomes rare. Other species are still abundant These fodder species are still abundant in this area still abundant in this area Along with local bush species the practice of collecting cow dung is still in practice to fulfil the fu wood requirement. Pasturarea is in easy access.	available	Dactylorhizahatagirea	exploitation but the major
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Major NTFPs Rosa webbiana (Sea buckthorn) NTFPs Rosa webbiana (wild rose) Allium canadense (Wild onion) Aconitum Arnebiaeuchroma(Ratanjot) Pedicularis Dactylorhizahatagirea(Salampanja)  Fodder availability Fuelwood availability  Many species of bushes were used for fuelwood availability Many species of bushes were used for fuelwood along with the collection of cow dung from the grazing/pasture area. The collected cow dung used to be the main source of fuelwood.  Major  Due to Over foraging sor NTFPs like wild onion, ratanjot, salampanja etc becomes rare. Other species are still abundant  These fodder species are still abundant in this area  Along with local bush species the practice of collecting cow dung is still in practice to fulfil the further wood requirement. Pasturarea is in easy access.		Hippophaetibetana	till now.
Major NTFPs Rosa webbiana (wild rose) Allium canadense (Wild onion) Aconitum Arnebiaeuchroma(Ratanjot) Pedicularis Dactylorhizahatagirea(Salampanja)  Fodder availability Fuelwood availability  Many species of bushes were used for fuelwood availability  Many species of bushes were used for fuelwood availability  Many species of fuelwood.  Many species of fuelwood.  Many species of fuelwood.  Many species of bushes were used for fuelwood availability  Many species of bushes were used for fuelwood availability  Many species of bushes were used for fuelwood availability along with the collection of cow dung from the grazing/pasture area. The collected cow dung used to be the main source of fuelwood.  Many species of fuelwood.  Many species of bushes were used for fuelwood along with local bush species the practice of collecting cow dung is sti in practice to fulfil the fu wood requirement. Pastur area is in easy access.			
NTFPs   Rosa webbiana (wild rose)   NTFPs like wild onion, ratanjot, salampanja etc becomes rare. Other species are still abundant   Pedicularis   Dactylorhizahatagirea (Salampanja)    Fodder availability   Fodders like Trigonella emodi   And Festuca rubra were easily available   Still abundant in this area    Fuelwood availability   Many species of bushes were used for fuelwood availability   along with the collection of cow dung from the grazing/pasture area. The collected cow dung used to be the main source of fuelwood.   in practice to fulfil the fu wood requirement. Pasturarea is in easy access.		Rosa webbiana	
availability And Festuca rubra were easily available still abundant in this area  Fuelwood availability Many species of bushes were used for fuelwood along with the collection of cow dung from the grazing/pasture area. The collected cow dung used to be the main source of fuelwood.  Along with local bush species the practice of collecting cow dung is still abundant in this area in practice of the practice of collecting cow dung is still abundant in this area area is in practice of area is in easy access.	NTFPs	Rosa webbiana (wild rose) Allium canadense (Wild onion) Aconitum Arnebiaeuchroma(Ratanjot) Pedicularis	ratanjot, salampanja etc
availability along with the collection of cow dung from the grazing/pasture area. The collected cow dung used to be the main source of fuelwood.  species the practice of collecting cow dung is still in practice to fulfil the full wood requirement. Pasturarea is in easy access.			These fodder species are still abundant in this area.
Timber Salix used to be major timber available in the Salix (Wild willow) along		along with the collection of cow dung from the grazing/pasture area. The collected cow dung	species the practice of collecting cow dung is still in practice to fulfil the fuel wood requirement. Pasture
	Timber	Salix used to be major timber available in the	Salix (Wild willow) along

Availability	wild along with Caragana brevifolia and Tibetan Sea buckthorn which was in easy access.	with few local species of timber and <i>Populus spp</i> , is available. Plantations programme are the key factors for availability of timber in this area.
Access to open grazing	Easy access	Few restrictions due to forest rules and regulations but access is easy.
Access to fuel wood	Easy access/nearby	Have to move far off
Access to fodder	Easy access as forest land being nearer	Some fodder species are grown in own agricultural land. Fodder collection from forest land is still permittable.
Access to timber	There used to be no trees in the forestland so they depended upon woody shrubs.	They are still depended upon woody shrubs and bushes for timber from forest land.
Access to NTFP	Easy access and highly abundant.	Access is still easy but people collect NTFP on very few quantities. Some medicinal plants are collected by amchis only.

## 4.4 Households dependent on Forest (As per PRA exercises)

Category	% HHs depending on forest					
	NTFP	Fuel wood	Fodder	Other	Other	
Primary forest users	100%	100%	100%			
Secondary forest users						

## 4.5 Forest Resources of the selected area (As per the PRA exercise)

				Perceived	value of plant
S. No	Species (local name)	Main uses	Relative abundance (%)	`	1-10, 1 being west)
				Men	Women

1	Hippophae tibetana (Chharma)	Medicinal values, fuel wood	78%	8	8
2	Arnebia euchroma(Ratanjot)	Medicinal, herbal	25%	6	9
3	Allium canadense (Farna/Jaman)	Medicinal, beautification, fuel	35%	5	7
4	Salix	Fuel, Timber	18%	10	10
5	Gentiana	Medicinal	10%	9	9
6	Trigonella emodi	Fodder	10%	6	8
7	Festuca rubra	Fodder	3%	5	7
8	Dactylorhiza hatagirea (Angbolakpa)	Medicinal	3%	6	6
9	Ephedra gerardiana (Somlata)	High altitude sickness treatment	100%	10	10
10	Juniper (Suppa)	Fuel wood	5%	6	5
11	Altung	Medicinal value	30%	7	6
12	Thema	Fodder	40%	7	6

# 4.6 Biodiversity (BMC Use)

Major habitats	Initiative taken for biodiversity conservation
Snow Leopard	<ul> <li>Developing snow leopard &amp; prey species monitoring protocols</li> <li>Understanding and managing people-wildlife conflicts</li> <li>Developing models for maintaining socially fenced areas for conservation</li> <li>Awareness programmes directed at school children, teachers and youth.</li> </ul>
Bharal	<ul> <li>Pasture development</li> <li>Ban on hunting</li> <li>Improvement of wildlife habitat by constructing water pond/water harvesting structure</li> <li>Repair of path bunkers, saltlicks etc.</li> </ul>
Ibex	<ul> <li>Pasture development</li> <li>Ban on hunting</li> <li>Improvement of wildlife habitat by constructing water pond/water harvesting structure</li> <li>Repair of path bunkers, saltlicks etc.</li> </ul>
Red Fox (Vulpus vulpus)	<ul> <li>Awareness related to human wildlife conflict.</li> <li>Initiatives for tackling wild-domestic animal's conflict.</li> <li>Precautions during grazing.</li> </ul>
Wild Cats	<ul> <li>Awareness related to human wildlife conflict.</li> <li>Initiatives for tackling wild-domestic animal's conflict.</li> </ul>
Wild Rabbit	<ul><li>Pasture development</li><li>Ban on hunting</li></ul>

#### **Habitat Management:**

Habitat management is one of the most important activities of wildlife management. More ideal the habitat is, better it is in terms of availability of food, cover and water to wild animals. It is imperative to analyse the resources that are available in the habitat as this is the main factor which ultimately controls the wild life. Type of habitats available in the sanctuary needs to be thoroughly studied. As this will ensure the future management and all management practices shall be guided by the type of habitat and available resources.

#### **Objectives:**

- To study the habitat with respect to availability of resources and constraints.
- To assess the suitability of habitat for various kind of wildlife.
- To carryout various activities for habitat enrichment with minimum disturbance.
- To propagate the local species of fruit bearing plant to ensure the availability of food to the wildlife of this area.

#### **Management Prescriptions:**

- Improvement of Pastures.
- Maintenance of water sources.
- Augmentation of Salt Licks.
- Protection and maintenance of Physical Features.
- Understanding and managing people-wildlife conflicts.
- Helping in conservation planning and implementation.

#### **Improvement of Pastures**

Under pasture improvement not only the quality of bushes is to be improved but in vast extensive thatches/ pastures, planting of bushes like Caragana, Sea buckthorn, *Rosa spp*, Juniper and other species needs to be carried out. This along with increasing variety of forage shall also provide shelter to wild life. The local nutritious grasses need to be encouraged. Every year 10 hectare of area should be tackled under this scheme.

#### Maintenance of water sources

The area is deficient in water. To improve the water availability in the sanctuary, it is necessary to construct some water harvesting structures. These structures should be spread over the entire area. Every year, 5-6 earthen ponds will be constructed. The site of proposed water ponds should be identified carefully after visiting/inspecting the area by DFO/ACF with clear objectives. The design will be according to the site available on the spot. The cost of each structure will be as per the estimate and shall vary from site to site.

### 4.7 NTFP Collection (as per PRA exercises)

S.	Name of	Collection	No. of HHs	Unit	Average	Quantum	Quantum	Sale value in Rs.	From	Major
No	NTFP	time	engaged -		collection/	collected in a	sold in a		VFDS	problems
		(Months)	approx.		Season/HH	season/ year	season/		Area -	
					/Year		year		yes/no	
1.	Sea	Sept-Oct	40	Kg	3	-	-	Rarely sold	Yes	Over
	Buckthorn									exploitation
2.	Wild Onion	June	40	Kg	2	-	-	No sale	Yes	Low
										abundance
3.	Wild Garlic	July	35	Kg	4	-	-	No sale	Yes	Low
										abundance
4.	Salampanja	Sept-Oct	40	Kg	1	-	-	No sale	Yes	Low
										abundance
5	Ratanjoit	Oct-Nov	35	Kg	1			No sale	Yes	Low
										abundance
6	Somlata	Sept-Oct	35	Kg	3	-	-	700-1000/Litre	Yes	Low
								for wild apricot		abundance
								oil.		

Medicinal plants like Somlata, wild onion, Salampanja etc are collected by very few households for their culinary purpose and medicinal use. Only those who have knowledge regarding their value are engaged in foraging of these species. Sea-buckthorn fruits are collected for household purpose. Locals are engaged in making juice and jam from sea buckthorn fruits to some extent but they don't have proper knowledge regarding this process. Some locals are commercially collecting sea buckthorn leaves for the purpose of herbal tea.

## 4.8 Fuels Collection/Consumption

S. No	Type of fuel used	No of HHs involved	Unit	Average HH Consumption /Year	Sources	Cost involved, if any	Major Problems
1.	Cow dung	43	Q	25	Pasture/forest land	-	Need to go far for cow dung collection Human wildlife conflict
2.	LPG	43	Per unit	12	Government gas agency	Rs. 1270	Problems may arise during winter for LPG distribution/Transportation/High Cost
3.	Fuel wood	43	Q	20	Forest department	Rs. 550/Q	It will be costly if government doesn't provide subsidy
4.	Kerosene	43	L	40	Government agency/Market	85/L	High cost Unavailable sometimes during winter.

## 4.9 Fuels/Fuel wood Deficiency

Fuels deficiency	% HHs with fuels deficiency	Duration (Months)	Coping strategies
Low	25	Nov-Apr	Dependence on local resources
Medium	-	-	-
High	-	-	-

- Consumption of fuel wood is more during winter (November-March).
- Fuel wood distribution by forest department in subsidised rate is not enough for households to cope up during winter so more supply is needed.
- The villagers are also relying on collection of cow dung cakes from forest area to use during winter.

## 4.10 Fodder collection/consumption

S.N.	Type of fodder used	NO of HHs involved	unit	Average HH consumption/year	sources	Cost involved, if any	Major problems
1	Barley Straw/ Wheat Straw	43	Q	20	Forest land/Agriculture field	1400/Q	Deficiency of water
2	Green grass	43	Q	15	Forest land/Agriculture field	-	Deficiency of water
3	Ruisha Green	43	Q	15	Kaza /Kinnaur Market	900\Q	Transportation
4	Chhiri	43	Q	12	Forest land/Agriculture field	-	Transportation/Not available on time
5.	Burse	43	Q	15	Forest land/Agriculture field	_	Transportation

- People prefer High value cash crops, especially Vegetables and are not growing traditional crops which are resulting in lesser fodder availability.
- After September cows and bulls are sent to open pastures for free grazing till the snow occurs. In winters they take their domestic cattle back to the houses.

## **4.11 Fodder Deficiency**

Fodder deficiency	% HHs with Fodder deficiency	Duration (Months)	Coping strategies
Low	20%	November- march	Have to use stored dry fodder
Medium	-	-	-

#### 4.12 Timber

S. No	Type Timber used	No of HHs demand /Year	Unit	Cost Involved	Current source of collection/purchase	Major Problems
1	Timber for Agricultural equipment, House construction/repair, Furniture etc	25-30(This depends upon the need of the households)	Feet	140/F-175/F	· ·	There is no forest they have to pay carriage for timber they purchase from depot.

# **4.12.1 Timber Deficiency**

Timber deficiency	%HHs with timber deficiency	Duration (Months)	Coping strategies
Low	25%	Dec-Apr	Use of locally available resources
Medium	-	-	-
High	-	-	

#### **4.13 Forest Management Practices**

Key activities	Traditional practices	Current practices
Nursery development	No nursery raising practices for forest species. Natural regeneration of some species in forest area.	Nursery raising and development is done by forest department.
Plantation management	Protection of naturally growing species. Plantation of poplar ad Willow.	Plantation programmes with the help of forest department. Community forest development. Pasture land management
Forest protection	No such protection activities; Some species were over exploited and harvested.	Social forestry and community forest management practices.
Development activities	Fencing in some areas. Unmanaged practices were done.	Development activities through different biodiversity management committee and forest department in systematic manner.
Livelihood activities	Agriculture, NTPF collection/Livestock	Agriculture, NTFP collection, small scale business, Home stay/Tourism

BMC subcommittee will be involved in forestry plantations, soil conservation works, forest maintenance and protection work.

#### **4.14 Forest Protection Practices**

Forest disturbances	Traditional practices	Current practices
Forest fire	The area is devoid of trees and during winter snow covered condition makes this area free from forest fire. So, there is of chance of forest fire.	The area is devoid of trees and during winter snow covered condition makes this area free from forest fire. So, there is of chance of forest fire.
Land slide	Check dams and vegetative walls	Construction of Check dams, crate walls, plantation programme.
Flood	Protection walls	Construction of Protection walls, dams etc.
Hunting	Hunting/poaching was prevalent prior to WLPA 1972. Dogs were used to hunt Wild goats.	Completely banned.
Illegal activities	No such protection practices against illegal activities.	Anti poaching and anti hunting campaigns.
Biodiversity conservation	Not much aware about conservation of biodiversity.	

- BMC Sub-committee will protect plantation sites.
- BMC Sub-committee will participate in dry stone check dam construction, brush wood check dam and bioengineering works.
- BMC Sub-committee will help to prevent illegal activities like illegal logging, hunting etc.
- BMC Sub-committee will participate in NTFP conservation works.

#### **4.15 Water Resources**

Water resources	Number	Availability of water (Months)	Different uses	Current status	Maintained by whom	Problems	Opportunities
Natural springs	1	12	For drinking/Irrigation/Livestock	In use/running	Villagers	Open source, not available during winter ,flooding problems	Can be utilised for drinking as well as irrigation purpose if maintained well.
River	2	12		running	Govt. departments	flooding	High potential for irrigation in the area
Tank	-	-	Drinking/irrigation	available	villagers	Cannot be used during winter	More efficient in distribution of well maintained
Drinking water supply	IPH supply	7	drinking	available	IPH /Villagers	Not available during winter	The problem of drinking water during winter can be reduced.

## 4.16 Agricultural resources

## 4.16.1 Cultivable land use pattern

Cultivable	Irrigated	Rainfed	Cultivable	Land	Land	Other	
land	land	land	wasteland	leased in	leased out	Other	
Area (ha)	22-15-41	-	-	-	-	-	
% Area (ha)	100	17.5	-	-	-		

## 4.16.2 Land holding pattern

Category	Criteria	Number of HHs	% HHs
Landless HHs	-	-	-
Marginal farmers	-	-	-
Small farmers Less than 1		22	51%
Medium Farmer  Between 1& 2 hac		15	34%
Large farmers More than 2 hac		06	13%

# **4.16.3** Cropping Pattern

Major crops	No of farmers engaged	Irrigated/ Rain fed	Unit of yield	Average Crop yield	District/Stat e average yield	% deficit yield	Reasons, if low yield	Perceived solutions to improve crop yield
Potato	43	Rainfed	Q/Ha	N/A	-	-	No proper irrigation facilities, Lack of fertilizers and improved seeds	Irrigation facilities should be improved.
Barley	43	Rainfed	Q/Ha	14.45	16.72	2.27	No proper irrigation facilities, Lack of fertilizers and improved seeds	Technical guidance from agriculture department is needed.
Green Peas	43	Rainfed	Q/Ha	65.2	76.6	11.4	Lack of fertilizers and irrigation facilities, High seed rate and low germination rate, Powdery mildew disease	Improved (disease resistant and high yielding) varieties should be used for which department of agriculture is responsible. Should provide soil testing facilities to farmers.
Black Peas	43	Rainfed	Q/Ha	8-10	12-15	-	Irrigation and Nutrient Management Problems	Supply of Organic compost through horticulture/Agriculture department. Workshop to farmers on nutrient management practices.

## **4.16.4** Challenges of Cultivable Land

Major challenges	Current strategies to deal with challenges	Usefulness of the current strategies
Poor soil fertility	Application of FYM and other fertilizers	Moderately useful
Soil erosion (low)	Stone structures, plantations, live mulching	Moderately useful
Soil erosion (medium)	Stone structures, plantations, live mulching	Moderately useful
Soil erosion (severe)	No severe soil erosion	-
Low land productivity	Application of FYM and other fertilizers	Moderately useful
Low moisture retention	Live mulching, organic mulching	Moderately useful
Lack of irrigation	Use of PVC pipes for irrigation	Less useful(Costly)

#### 4.16.5 Livestock Resource

## 4.16.5.1 Livestock Holding Pattern

Туре	Number of HHs involved	Average HH holding	No. of animals – approx.	Problems	Opportunities
Cows	43	2	100	Distant Fodder Availability less milk production lack of scientific knowledge of animal rearing	Identification of potential grazing area. Veterinary department should act accordingly.
Bullocks	1	1	1	lack of scientific knowledge of animal rearing	Bullocks are only used for breeding purpose.
Yak	35	2	70	lack of scientific knowledge of animal rearing	Yaks are only used for breeding purpose
Donkey	43	1	50	Distant Fodder Availability less milk production lack of scientific knowledge of animal rearing	Identification of potential grazing area. Veterinary department should act accordingly.
Horse	35	2	70		Means of Transportation on tough terrains

#### 4.16.5.2 Production of main Livestock

Туре	Product	Unit of product ion	Average yield/production	District/State average	Reasons for low yield/production
Cows	Milk	Litre	1.5 L(Local Breed) 3.5 L (Hybrids)	4.2	Stall feeding Nutritional deficiency Low fodder availability

# 5. Livelihood Strategies

## **5.1 Existing Livelihood Strategies**

Source of livelihood	Number of HH depen	ident as	Major constraints/ challenges
	Primary source	Secondary source	
Agriculture	43	-	The area is rained so the adoption rate of improved technologies and inputs by the farmers is less compared to irrigated land.  Small land holding.  Soil erosion due to serious topographical and climatic factors and all the biotic pressure.
Forestry	43	-	Wide pasture area but very less vegetation. Encroachment problem
Livestock/Animal Husbandry	-	43	Shortage of fodders Scattered land holdings Low milk production and poor extension service Lack of improved breed
Wage labour	-	5-	No commitment / low employment
Small business	20	-	Marketing problems in agricultural business Unavailability of raw materials on time
Service/Job		30	Lack of quality education and skilled manpower to prepare service-oriented people.

# **5.2 Livelihoods- Activity Calendar**

Month			Main activities				
(local)	Agriculture	Forestry works	Wage Work	Other-specify			
January	-	1	-	Handlooms/Hand knitting/carpet making			
February	-	-	-	Handlooms/Hand knitting/carpet making			
March	-	-	-	Handlooms/Hand knitting/carpet making			
April	Field preparation and sowing	Plantation in forest and private land	Construction work/labour in agriculture field	-			
May	Intercultural operations and irrigation	Plantation in forest and private land	Construction work/labour in agriculture field	-			
June	Intercultural operations and irrigation	Plantation in forest and private land,	Construction/plantation	-			
July	Intercultural operations and irrigation	Plantation in forest and private land, NTFP collection	Construction/plantation	-			
August	Intercultural operations and irrigation	Construction of crate wall/Check dam, NTFP collection	Agricultural activities	-			
September	Reaping	Conservation activities, NTFP collection	Agricultural activities	-			
October	Threshing, Post harvest and storage	NTFP collection	Agricultural activities	-			
November	-	-		Handlooms/Hand knitting/carpet making			
December	-	-		Handlooms/Hand knitting/carpet making			

#### **5.3 Food deficiency**

Food deficiency	% HHs with food deficiency	Duration (Months)	Coping strategies
Low	4%	Dec-Feb	Help from others
Medium	-	-	-
High	-	-	-

Although few BPL families are there but no such food deficiency is observed as PDS schemes are there to cope up for this.

#### 5.4 Income deficiency

Income deficiency	% HHs with income deficiency	Duration (Months)	Coping strategies
Low	4	November- march	Money lending
Medium	-	-	-
High	-	-	-

Income deficiency is observed in very small amount.

## 6. Institutional Analysis

#### 7.1 Existing Community Based Organisations (CBOs)

CBOs	Age of CBO (Year)	Formal/ Informal	Registered (Yes/No)	Objectives	Member ship	Key activities	Credibility of CBO	External linkages	Useful for the project
BMC	2	Formal	Yes	Biodiversity Conservation Participatory Forest management	Voluntarily (16 members)	Wildlife conservation Forest management Community development	effective	With forest department	Very useful
Mandir (Monastery) committee	2	Formal	No	Religious activities	All the believers and worshippers	Religious gatherings and meetings	effective	-	Yes
Self-help group	1	Formal	yes	Community development Women empowerment Rural entrepreneurship development	14 members	Small scale business Meetings regarding entrepreneurship	excellent	Forest department	Yes
Youth Group	25	Formal	Yes	Anti-drug campaign Health and fitness community development	Voluntarily (40) Members)	sports activities sanitation campaign	good	-	Yes
Mahila Mandal	25	Formal	Yes	women empowerment	Voluntarily	activities for girls' education community development	good	-	Yes

All above mentioned committees/ groups would be of immense help to Project and their involvement would be helpful in implementation of project activities. Representatives of these committees will be included in BMC Sub-Committee as nominated members.

# **6.2 Preferences for External Linkages**

Name of External Intuition (EI)	Importance of the EIs	Relationship with EIs	Preference to associate with EIs
Gram panchayat	Government schemes for families Road connectivity through PMGSY and General house meeting	Very good and helpful	2
Forest department	Biodiversity conservation and forest protection, plantation activities	Cordial relation	1
Horticulture/Agriculture Department	Schemes for agricultural/horticultural crops and improved varieties	Cordial	3
Veterinary	For commercial livestock production	Cordial	4
Community health centre	Health facilities/services	Cordial	5
Jal Shakti	Water supply and irrigation	Good	3
PWD	Developmental activities	Bitter	3

## **6.3 Profile of existing SHGs**

S. No	Name	Members	Type of (IGAs)	Funds invested	Source of finance	Profitability	Credibility
1	Chhampa	06	Khadi	-	Self-finance/BMC	-	Credible
2	Thagnom	08	Khadi	-	Self-finance/BMC	-	Credible

# 7. Problem Analysis and Solution

# 7.1 Analysed Problems and Scientific Solutions

S. No	Problems identified	Justification of problems identified	Extent of problems	Recommended solutions
1	Depleting availability of medicinal plants and fodders from nearby forest area.	Due to limited forest area, the over exploitation and overgrazing causes the problem	Serious	Conservation of floral diversity through community approaches. Plantation programs.
2	Low moisture retention/water scarcity	The area is rainfed so limited water resources cause these problems.	Severe	Construction of water harvesting structures.
3	Soil erosion	Due to glacier melt and wind.	Moderate	Contour trenching, construction of check dams/crate walls
4	Inadequate supply of drinking water	Due to cold winter when temperature reaches below -25° c then drinking water is not available	Severe	This issue should be addressed by government agencies.
5	Marketing of Food/Value added Products	No marketing strategies for value added agricultural products.	Moderate	Capacity building/Trainings/workshops are necessary to solve these problems which should be lead by Agri/Horti department.
6	Fertilizers/Seeds/FYM	Due to the remoteness of the area	Severe	This issue should be addressed by government agencies.
7	Transportation	Tough terrains	Severe	

#### 7.2 Perceived Problems and Solutions

S. No	Key Stakeholders	Key problems identified by stakeholders	No of HHs and/or area affected	Critical causes of the problems	Perceived solutions
1	Women	Low income, problems related to fodders and fuel wood, no equal rights for participation in community development activities	43	Lack of education and awareness	Education for women/girls, equal participation in community activities, rural entrepreneurship development through SHGs and Mahila mandal.
2	Wage- labour	No proper/promised employment,	3	Not much employment generation activities	Employment chances in agricultural activities/construction work and in other departments
3	Farmer	Water scarcity, no proper marketing of agricultural products, less availability of improved seed and fertilizers.	43	Rainfed agriculture, tough terrains, long and harsh winter, not much support from agriculture/horticulture department	Water harvesting activities, plantation activities, capacity building programs on organic compost preparation and scientific/climate resilient agriculture

## 7.3 Implementation Activities/Interventions

S. No	Specific activities as per the agreed solutions	No of beneficiaries		
1	Participatory forest management			
	Plantation of fodder and fuel wood trees in the community land. Although there is a demand of high fodder and fuel wood species but only few species can grow and survive in this region. The major species which will be planted are Poplar, Willow and Sea buckthorn.	Whole community		
	Conservation of high value NTFP species and development of pasture land.			
	Sustainable forest development practices will be implemented and over exploitation of grass/fodder species and other medicinal plants will be reduced.			
	Banned on Encroachment of forest land will be stopped.			
2	Soil & water conservation			
	Construction of check dams/crate walls to reduce the Soil erosion and landslides near nallahs.	Whole community		
	Renovation of existing water bodies, construction of tanks, etc.			
	Mulching practices to reduce soil erosion from agriculture land.			
	Management of existing natural springs.			
3	Bio-diversity conservation			
	Community participation in biodiversity conservation.	Whole community		
	Participation in awareness campaign with forest department.			
	Conservation of local species of flora and fauna.			
	Complete ban on hunting/poaching and illegal activities.			
ļ	Community development			
	Construction of Irrigation canals/system.			
	Construction of Water Harvesting Tanks			
	Construction of public Toilets.			
	Footpath/Stairway construction.	Whole community		
5	Livelihood improvement			
	Training and capacity building of SHGs.			
	Capacity building on Tailoring/ handlooms.			
-	SHGs training on Hand knitting/automatic knitting			
	Capacity building activities for agriculture/horticulture service.			
,	Miscellaneous activities to be taken up in convergence			
	Food Processing Unit Setup.	Whole community		

# 7.4 SWOT Analysis

Strengths	Weakness
<ul> <li>Unity among people.</li> <li>Centre of attraction for Pin valley National Park.</li> <li>Educated youths.</li> <li>Very strong among individual level.</li> </ul>	<ul> <li>Lack of awareness about project.</li> <li>Drudgery</li> <li>No income generation activities for women.</li> <li>No coordination with other departments.</li> <li>Very poor performance on community development.</li> </ul>
Opportunity	Threats
<ul> <li>Market potential of local agriculture products.</li> <li>Tourist attraction.</li> <li>Maximum concentration of funds in this area.</li> </ul>	<ul> <li>Over exploitation of resources.</li> <li>Climatic condition of the area.</li> <li>Human Wildlife Conflict.</li> </ul>

#### 7.5 Setting the objectives for Development for the project duration

#### **Objectives for Forestry Development**

- Improving long-term forest health and productivity
- Conservation and protection of forest areas and wildlife sanctuary.
- Enhanced vegetative growth for fodder and fuel wood.
- Conservation of NTFPs.
- Sustainable forest ecosystem management.
- conservation works
- Reduce encroachment of forest land.
- Plantation management.

#### **Objectives for village/community Development**

- Sustainable Livelihood
- Reduction in pressure on forest resources
- Asset Generation
- Convergence of various departments for overall development of the region
- Women Empowerment
- Rural entrepreneurship development.
- Income generation activities.

#### 8. Forest Ecosystem Management Plan

#### 8.1 General description

The Potential intervention areas /treatment plots and soil conservation works have been identified during Micro planning exercises by technical staff (Fgd, Block Officer and Range officer). GPS locations have been collected and plot wise expenditure details of plantation sites have been prepared. The activities to be carried out stands discussed with villagers in detail during PRA exercises. The selected plantation plots /patches are either open areas or are blank, which would be planted with multipurpose trees varying from 500 -200 trees per hectare. Being on the southern and southern eastern aspect species selection of plan table species, stock health, and pit size needs to be kept in mind. For soil conservation works estimate will be prepared by FTU and field staff before implementation. Members from committee expressed that area near habitations as well as areas which fall within the grazing zone of migratory graziers needs fencing. The members were assured that the vulnerable points will be taken care of and barbed wire fencing will be recommended so that there will be least grazing incidences in the plantation areas. The members assured that they will not leave their domestic cattle for grazing in open without attendant which may cause damage to the seedlings in the closed areas. Plots identified were discussed in detail and assigned to user groups. In addition, the participants suggested itemised conservation measures to be taken for each species.

Work to be executed in PFM mode and in FD mode was discussed and finalized. All Plantations planted by Sub-Committee will be protected by Sub-Committee. Technical works, Masonry/Gabion check dams, water harvesting structures, will be built by FD. Bioengineering structures, Dry stone Check Dams on small streams, Masonry ponds etc, will be done by Villagers.

#### 8.1.1 Memorandum of Understanding

Memorandum of understanding (English version) translated in Hindi / local language was read and explained to all present. The issue of community contribution was discussed in detail and the community members suggested their contribution in following forms: All the user group members agreed that they will contribute their BMC Sub Committee membership beneficiary share into the BMC Sub Committee account. All members agreed for their contribution in project activities and decided to contribute membership fee of Rs. 200. This has to be paid only once. The amount will be kept in BMC Subcommittee account and can be used as community share for doing any other development work with other departments or with project, if BMC Subcommittee members desire so, otherwise they can use it after project completion. This is important because villagers should feel sense of ownership in works and further, they have to maintain and protect forest area / assets for several years even after completion of project. The Micro Plan was finally approved by the General House of BMC Subcommittee (Details written in proceeding register and The MoU was also signed by the president of BMC Subcommittee and DFO Spiti Signed MoU annexed in this document).

# 8.1.2 Project Support to the beneficiary BMC Subcommittee for implementation of Micro plan

The village level organization will be beneficiary of PIHPFEM&L project for:

• Financial support

#### Implementation of the approved micro-plan

Labour wages: for Fencing, pit digging, carriages, planting, weeding, mulching of

Plants excluding the community contribution

**Other works:** as per approved micro plan (ALL WAGES ARE TO BE PAID BY THE BMC by CHEQUE OR BY BANK TRANSFER. NO CASH TRANSACTIONS PERMITTED).

**CDAs:** The Community Development Activities as identified by the BMC Subcommittee and in Conformity with the Project guidelines will be decided and implemented by the BMC Sub Committee through a consultative process.

**Maintenance:** Beating up operations, weeding mulching in MP plantations for years. Maintenance of fence for 5 years.

#### Stock and material:

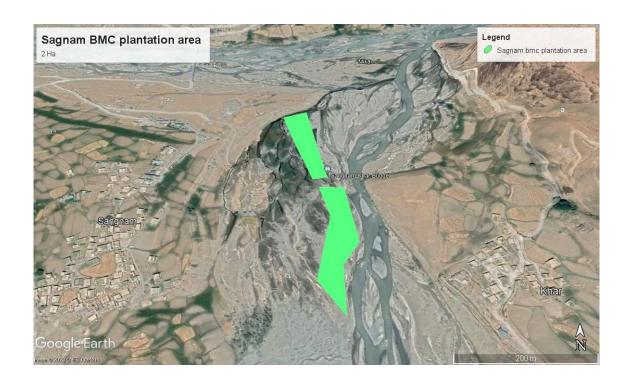
- I. Stock: quality nursery raised plants
- II. Material e.g., B. wire, U. nails, fence posts, Tar/ black Japan etc.

**Stationary:** Stationary to BMC Subcommittee including stamps, stamp pad, registers, receipt book, carbon papers, paper pin, resolution pads, pen, pencil, dairies, chairs, table, Almirah etc. to run the office effectively.

#### 8.2 Activities for plantation

Plantation area: 2Ha

Plantation norm: Afforestation @1100normal plants/Ha



S.N.	Activity	Benefitting HHs	Area to be covered (Ha)				
			2023-24	2024-25	2025-26	2026-27	2027-28
1	Afforestation @1100plants/Ha Normal plantation	Whole community	-	2 Ha (Advance work and Plantation)	Maintenance	Maintenance	Maintenance

# **8.3 Requirements of Planting Materials**

Year	Numb	Source of planting material			
	Hippophae r	Hippophae rhamnoides (Sea buckthorn)			
	New	Maintenance			
2023-24	-	-	Shego/Schichling Nursery		
2024-25	2200		-do-		
2025-26		660 (30% of new)	-do-		

2026-27		440 (20% of new0	-do-
2027-28		220 (10% of new)	-do-
Total	2200	1320	

## 8.4 Forest Protection/Silviculture/Maintenance operation for the Plantation

Years	Activities to be taken	up site	Responsibili	Responsibility			
	Sagr	nam 1 (total plantation area = 2 ha	Project	Subcommittee			
2023-24	-	-	Yes	Yes			
2024-25	Plantation (2200 Saplings)		Yes	Yes			
2025-26	-	Maintenance (30% beating up)	Yes	Yes			
2026-27	-	Maintenance 20% beating up)	Yes	Yes			
2027-28	-	Maintenance 10% beating up)	Yes	Yes			

## **8.5 Plantation Activity under PFM Mode**

Years	Activities to be taken	up site	Responsibility			
	Sagn	nam 1 (total plantation area = 2 ha	Project	Subcommittee		
2023-24	-	-	Yes	Yes		
2024-25	Plantation (2200 Saplings)		Yes	Yes		
2025-26	-	Maintenance (30% beating up)	Yes	Yes		
2026-27	-	Maintenance 20% beating up)	Yes	Yes		
2027-28	-	Maintenance 10% beating up)	Yes	Yes		

#### 8.6 Soil and water conservation

## 8.6.1 Soil and Water Conservation Works (Proposed)

S.N.	Type of SWC work	Unit of	Quantum of	НН		Responsibility	
		work	work	beneficiaries			
					Project	Sub committee	Convergence
1	Construction of crate wall at	No.	1	Whole	Finance	Implementation	
	sagnam nalla (90Rmt)			community		and	
						management	

## 8.6.2 Soil and Water Conservation works (Year wise Physical Target)

S.N.	Type of SWC work	Unit of	Quantum	НН	Physical target for SWC activities				
		work	of work	beneficiaries					
					2023-24	2024-25	2025-26	2026-27	2027-
									28
1	Construction of crate wall at sagnam nalla (90Rmt)	No.	1	Whole community	0	1	0	0	0

#### 8.7 Physical and Financial Plan (FEMP)

## 8.7.1 Proposed physical and financial plan

S.N.	Proposed Activity		Unit Cost	20	23-24	20	)24-25	2	025-26	20	26-27	20	27-28		Tota	1
1	New plantations			phy	fin	phy	fin	phy	fin	phy	fin	phy	fin	Phy		Fin
a	Afforestation @1100 normal plants	/Ha	68,600/H	0	0	2 ha	1,37,20	0 0	0	0	0	0	0	2 ha	1	,37,200
			a													
Α	Total new plantations (A)					2 ha	1,37,2	00						2 ha	1	,37,200
			Unit Cost		23-24		)24-25		025-26		26-27		27-28		Tota	
a	Afforestation @1100 normal plants/Ha (M	aintenance)		phy	fin	phy	fin	phy		phy	fin	phy	fin	Phy		Fin
i	1st.YearMaint. (10,000/Ha.)		10,000					2ha	20,000					2ha		20,000
ii	2nd Year maint.( 6,700/ha)		6,700							2ha	13,400			2ha		13,400
iii	3rd year maint.( 5,100/ha)		5,100									2ha	10,200	2ha		10,200
iv	4th year maint.( 3,500/ha)		3,500													
v	5th year maint.( 3,500/ha)		3,500													
	Total (B)							2ha	20,000	2ha	13,400	2ha	10,200	2ha		43,600
	Sub Total (A+B)						1,37,20	0	20,000		13,400		10,200		1	,80,800
S.N.	Proposed Activity	Unit Cost	2023	-24		2024-25		202:	5-26		2026-27		2027	7-28		Total
	SMC Trenching		phy	fin	phy	<b>y</b> 1	fin	phy	fin	phy	fin	1	phy	fin	phy	fin
1.	SMC works (Preparation of contour	15,750/H			2H	a 31	,500								2Ha	31,500
	trenches)	a														
	Soil and water conservation		phy	fin	phy	/	fin	phy	fin	phy	fin	l	phy	fin	phy	fin
1.	Construction of crate wall at sagnam nalla	4,400/mt			1	4,0	0,000								1	4,00,000
	(90Rmt)	r														
	Total (C)					4,3	1,500									4,31,500
	Grand Total (A+B+C+					5,6	8,700		20,000		13,4	00		10,200		6,12,300

#### 8.7.2 Annual Work Plan for 2024-2025

S.	Proposed activity	Benefitting HH	Unit of	Quantum of				Financial so	ource
N			work	work	Unit cost	proposed	project	convergence	community
					(Rs)	budget			contribution
	New plantations								
1	Afforestation @1100 normal	whole	ha	2	68,600	1,37,200	project		management
	plants/Ha	community							
		To	1,37,200						
SC	oil and water conservation								
1.	Contour trenches	whole community	ha	2	15,750	31,500			
2	Construction of crate wall at sagnam nalla (90Rmt)	whole community	No.	1	4,400/mtr	4,00,000			
		4,31,500							
		Sub	5,68,700						

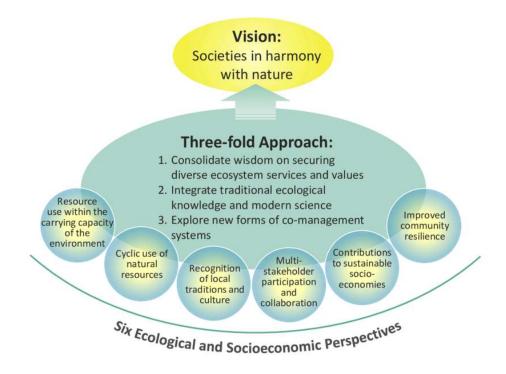
## 9. A BRIEF APPROACH OF SATOYAMA UNDER THIS PROJECT

Satoyama is a traditional Japanese concept that refers to a unique and sustainable approach to managing rural landscapes. The term "satoyama" literally translates to "sato" (village) and "yama" (mountain), signifying the harmonious coexistence of human settlements and the surrounding

natural environment. Satoyama landscapes are characterized by a balanced relationship between agriculture, forestry, and the preservation of biodiversity.

Here is some brief information about Satoyama:

- 1. **Ecological Harmony:** Satoyama landscapes are designed to maintain a delicate balance between human activities and the natural world. This balance is achieved by sustainable farming practices, including crop cultivation, livestock rearing, and forestry.
- 2. **Biodiversity Conservation:** Satoyama areas often contain diverse ecosystems with a wide variety of plant and animal species. Local communities play a crucial role in preserving these ecosystems, which can support both wildlife and human needs.
- 3. **Cultural Significance:** Satoyama landscapes are deeply rooted in Japanese culture and history. They are often associated with traditional agricultural practices, festivals, and communal activities that have been passed down through generations.
- 4. **Community Involvement:** Local communities in satoyama areas actively participate in the management and conservation of their natural resources. This involvement helps foster a sense of responsibility and pride in maintaining the balance between human activities and nature.
- 5. **Economic Sustainability:** The sustainable management of satoyama landscapes not only supports the environment and culture but also contributes to the economic well-being of rural communities. It provides livelihoods for people engaged in farming, forestry, and related industries.
- 6. **Challenges:** Despite their importance, many satoyama landscapes face challenges due to urbanization, depopulation of rural areas, and changes in land use. Conservation efforts and policies are being implemented to protect and revitalize these valuable landscapes.



**Schematic Diagram of Satoyama Initiative** 

Satoyama serves as an inspiring example of how humans can live in harmony with nature, maintaining both ecological and cultural diversity. It represents a holistic approach to land use and conservation that can provide valuable lessons for sustainable development and environmental stewardship worldwide.

The implementation of the Satoyama concept in a JICA (Japan International Cooperation Agency) project for the improvement of Himachal Pradesh's forest ecosystem management and livelihoods would involve applying the principles of Satoyama to the specific context and needs of the region. Here's how it could be implemented and why it's important:

#### **Implementation:**

- 1. **Assessment and Planning:** The project would start with a comprehensive assessment of the current state of Himachal Pradesh's forest ecosystems and the livelihoods of the communities dependent on them. This assessment would identify areas where the Satoyama approach could be applied effectively.
- 2. **Community Engagement:** Engaging with local communities is a fundamental aspect of Satoyama. The project would involve communities in decision-making processes, ensuring that their traditional knowledge and practices are integrated into conservation and livelihood improvement efforts.
- 3. **Sustainable Forest Management:** Himachal Pradesh has significant forest resources. Implementing sustainable forestry practices, such as selective logging and reforestation, would be crucial to maintaining ecological balance and ensuring a long-term supply of forest products.
- 4. **Biodiversity Conservation:** Efforts would be made to protect and enhance biodiversity within the forest ecosystems. This might include the establishment of protected areas and the promotion of habitat restoration practices.
- 5. **Agricultural Practices:** Like in traditional Satoyama landscapes, the project could promote sustainable agricultural practices that reduce the environmental impact, such as organic farming and agroforestry.
- 6. **Livelihood Diversification:** Recognizing that communities often rely on a combination of activities for their livelihoods, the project could support the diversification of income sources, such as promoting ecotourism, cottage industries, and non-timber forest product harvesting.
- 7. **Capacity Building:** Training and capacity-building programs would be essential to equip local communities with the skills and knowledge needed to manage their resources sustainably.
- 8. **Traditional values**: Indigenous and local communities in Himachal Pradesh have valuable traditional knowledge related to agriculture, forestry, and resource management. The Satoyama Initiative aims to preserve and integrate this knowledge into sustainable practices.

#### Comparison of rational for Satoyama initiatives in Himachal Pradesh

JAPAN	HIMACHAL PRADESH
68% of total geographical area is under forest cover.	• 27.72% of total geographical area is under forest.
<ul> <li>Maximum forest land is owned privately</li> </ul>	Maximum forest area is government owned
<ul> <li>Natural Resource depletion is due to depopulation and under use of natural resources(forests)</li> </ul>	<ul> <li>Natural Resource depletion is because of overuse of forest resources</li> </ul>
<ul> <li>Migration of rural population to urban areas</li> </ul>	Trend in urbanization is on rise
It aims to bring back people towards forests to manage forests	It aims to enable human interface for sustainable management of forest resources and minimise migration of people from villages to urban areas

#### **Importance:**

- 1. **Conservation of Biodiversity:** Implementing the Satoyama approach in Himachal Pradesh would help conserve its rich biodiversity, protecting endangered species and preserving the ecological balance of the region.
- 2. **Sustainable Resource Management:** Himachal Pradesh's forests are critical for the well-being of both nature and local communities. Sustainable resource management would ensure a continuous supply of forest products and protect against deforestation and environmental degradation.
- 3. **Community Empowerment:** Engaging local communities in decision-making and resource management empowers them to take ownership of their environment, leading to more effective conservation and improved livelihoods.
- 4. **Cultural Preservation:** The project would help preserve the cultural and traditional practices of indigenous communities in Himachal Pradesh, which are often closely linked to their natural environment.

- 5. **Climate Resilience:** Satoyama practices often enhance the resilience of ecosystems to climate change, making the region better prepared for future environmental challenges.
- 6. **International Collaboration:** By implementing the Satoyama concept in Himachal Pradesh, India can benefit from Japan's experience and expertise in sustainable land management, fostering international cooperation and knowledge exchange.

In summary, implementing the Satoyama concept in a JICA project for the improvement of Himachal Pradesh's forest ecosystem management and livelihoods holds great promise for balancing the needs of people and nature in the region while promoting sustainable development and conservation.

## **Problem Analysis and Solution**

#### **Analysed Problems and Scientific Solutions**

S. No	Problems identified	Justification of problems identified	Extent of problems	Recommended solutions	
1	Depleting availability of medicinal plants and fodders from nearby forest area.	Due to limited forest area, the over exploitation and overgrazing causes the problem	Serious	Conservation of floral diversity through community approaches. Plantation programs.	
2	Low moisture retention/water scarcity	The area is rainfed so limited water resources cause these problems.	Severe	Construction of water harvesting structures.	
3	Soil erosion	Due to glacier melt and wind.	Moderate	Contour trenching, construction of check dams/crate walls	
4	Inadequate supply of drinking water	Due to cold winter when temperature reaches below -25° c then drinking water is not available	Severe	This issue should be addressed by government agencies.	
5	Marketing of Food/Value added Products	No marketing strategies for value added agricultural products.	Moderate	Capacity building/Trainings/workshops	

				are necessary to solve these problems which should be lead by Agri/Horti department.
6	Fertilizers/Seeds/FYM	Due to the remoteness of the area	Severe	This issue should be addressed by government agencies.
7	Transportation	Tough terrains	Severe	

## **Perceived Problems and Solutions**

S. No	Key Stakeholders	Key problems identified by stakeholders	No of HHs and/or area affected	Critical causes of the problems	Perceived solutions
1	Women	Low income, problems related to fodders and fuel wood, no equal rights for participation in community development activities	43	Lack of education and awareness	Education for women/girls, equal participation in community activities, rural entrepreneurship development through SHGs and Mahila mandal.

2	Wage- labour	No proper/promised employment,	3	Not much employment generation activities	Employment chances in agricultural activities/construction work and in other departments
3	Farmer	Water scarcity, no proper marketing of agricultural products, less availability of improved seed and fertilizers.	43	Rainfed agriculture, tough terrains, long and harsh winter, not much support from agriculture/horticulture department	Water harvesting activities, plantation activities, capacity building programs on organic compost preparation and scientific/climate resilient agriculture

# SatoYama Activities

#### 9.1 SatoYama Activities

S.N.	Activity	Purpose of the Activity	HHs to be	Community
			benefited	Contribution
1	Irrigation canal construction and Repair	For Irrigation	Whole	Maintenance
			community	
2	Public dustbins (Dry and wet)/no.	For Sanitation/Beautification of Tourist	Whole	Maintenance
		area	community	
3	Construction of Public Toilets	Public toilets for the village as the wet	Whole	Maintenance
		toilets freeze during extreme winters	community	
4	Corals for livestock's	Protection of livestock from snow	Whole	Maintenance
		leopards and feral dogs	community	

5	Solar Hamam	Providing Warm Water during winters	Whole	Maintenance
			community	
6	Feral Dogs Sterilization	Control population of feral dogs`	Whole	Maintenance
			community	
7	Incentive to dog catcher	Control population of feral dogs`	Whole	Maintenance
			community	
8	Orientation workshop on crop damage protection	Spreading awareness on Protection of	Whole	Maintenance
	from wildlife	crops from wildlife damage	community	
9	Gazebo tent for SHG members	To be provided to the SHGs for the sale	SHG members	Maintenance
		of products		
10	Waste treatment facility for Sagnam and adjoining	Waste dumping in open causing rise in	Whole	Maintenance
	villages	street and feral dogs and in turn leading	community	
		to negative interaction between wildlife		
		and feral dogs during extreme winters		

- Detailed estimation plan will be prepared by BMC Subcommittee with inputs from PMU/DMU/FTU and concerned departments if required.
- Community will be expected to contribute to activity costs in the form of labour, materials and cash.
- The BMC Subcommittee will be responsible for monthly monitoring and quality control of the work to be executed and the maintenance and management of the community assets created.
- Guidelines will be developed by the PMC for the performance, maintenance and management of community assets.

### 9.1.1 Physical & Financial details of SatoYama Activities

G.N.		и ис.		2023-24		2024-25		2025-26		Total est.
S.N.	Proposed activities	Unit Cost	Uni t	Estimate d cost Rs)	Unit	Estimated cost Rs)	Unit	Estimated cost Rs)	unit	cost
1	Irrigation canal construction and Repair/400mtr	750/mtr					400 mtr	3,00,000	400mtr	3,00,000
2	Construction of public toilets	15000					5	75,000	5	75,000
3	Public dustbins (Dry and wet)/no.	15,000					5	75,000	5	75,000
4	Corals for livestock's	15000	-	-	7	1,05,000	7	1,05,000	14	2,10,000
5	Solar Hamam	15000	5	75000					5	75000
6	Feral Dogs Sterilization	100000					L/S	2,00,000	L/S	2,00,000

7	Incentive to dog catcher	10000				10	1,00,000	10	1,00,000
8	Orientation workshop on crop damage protection from wildlife	10,000		1	10,000			1	10,000
9	Gazebo tent for SHG members	25,000				1	25,000	1	25,000
10	Waste treatment facility for sagnam and adjoining villages	10,00,000 L/S				1	10,00,000	1	10,00,000
	Total		75,000		1,15,000		18,80,000		20,70,000

### 9.2 Livelihood Improvement/Income Generation Activities (IGAs)

S.N.	Activity	No. of SHGs to be covered/benefitting households		ers to be vered	Avai	lability to l	xey inputs (YE	S/No)	Expected Funds (Rs)	Expected Profitability (Rs)	Beneficiary Contribution (%)
			Male	Female	Skills	Raw Material	Technology	Market			

1	Capacity building/Training on agricultural activities	Whole community	Whole community	No	Yes	No	Yes	1,00,000	10%
2	Value Addition and marketing trainings related to IGA-cum- Exposure visit for SHG members	2 SHGs	Self help group members	Yes	No	Yes	Yes	6,00,000	
	Total							7,00,000	

- Major livelihood activities emerged during micro planning process included Hand Knitting/Khadi.
- Livelihood activities will be implemented through self-help groups (SHG).
- The SHG will have 8-20 members.
- In addition to regular group savings of Rs. 1 lakh will be provided as grant for revolving fund Focus will be on linking SHGs with banks
- Banks may consider loan of 3-4 times of the savings and deposits of the SHG
- The technical feasibility and economic viability of the proposed livelihood activities will be considered. Business plan will be prepared for each activity.
- The livelihood improvement scheme at the ward level will be linked to the cluster for procurement, marketing and technical advice.
- Guidelines to be developed by PMC for implementation of livelihood improvement activities.

### 9.3 Proposed Physical and financial coverage of livelihood improvement and Income Generation Activities

S. N	Activity	Target	Unit	2023-24	2024-25	2025-26	Total
		Group	Cost				

	Proposed Physical and financial coverage of livelihood improvement and Income Generation Activities			ph y	fin	ph y	fin	ph y	fin	ph y	fin
1	Capacity building/Training on agricultural activities	Whole community	10000	0	-	1	100000	0	0	1	100,000
2	Value Addition and marketing trainings related to IGA-cum- Exposure visit for SHG members	Self help group members	3,00,0			2	6,00,000			2	6,00,000
	Total		1				7,00,000				7,00,000

### 9.4 Formation of SHGs

Year	No. of SHGs	Members		
		Male	Female	Total
2021-22				
2022-23	2	0	14	14
2023-24	-	-	-	-

Chhampa SHG (6 Members) and Thagnom SHG (8 members) has been formed in the Sub Committee during the year 2023.

### 9.5Annual Work Plan for Community Development and Livelihood Improvement (CD&LIP)

S.N.	Proposed Activity	SHGs	No. of Beneficiary	Proposed Budget	Financial source		ce
	Community Development				Project	convergence	Community contribution

a.	Construction of Stair Pathway for Monastery (450*4= 1800 run. ft.)	0	Whole community	5,00,000	5,00,000	-	0
	Total			5,00,000	5,00,000	-	0
		Livelihoo	d Improvement				
a.	Capacity building/Training on agricultural activities		Whole community	100,000	100,000	0	0
	Value Addition and marketing trainings related to IGA-						
b.	cum-	2	-	6,00,000	6,00,000		
	Exposure visit for SHG members						
	Total	•		7,00,000	7,00,000	0	0
	Total			12,00,000	12,00,000	-	-

### 10. Activities identified in Sagnam 1 BMC

Activities to be carried out with the support of other Departments/ Projects/ Schemes Community Infrastructure development, basic human needs, agriculture and horticulture, IPH, Jal Shakti (through convergence)

### 10.1 Activities identified and implementing agencies

S	S.N.	Activities	HHs to be benefitted	Implementing agency	Proposed Budget (Rs)
	1	Plantation (Afforestation @1100 normal plants/Ha	Whole community	Forest department	1,37,200
	2	Maintenance of new plantation	Whole community	Forest department	43,600

3	Contour trenches	Whole community	Forest department	31,500
4	Construction of crate wall at Sagnam nalla (90Rmt)	Whole community	Forest department	4,00,000
5	Construction of Stair Pathway for Monastery (450*4= 1800 run. ft.)	Whole community	Forest department	5,00,000
6	Capacity building/Training on agricultural activities	Whole community	Forest department	100000
7	Value Addition and marketing trainings related to IGA-cum- Exposure visit for SHG members	SHG members	Forest department	6,00,000
8	Irrigation canal construction and Repair/400mtr	Whole community	Forest department	3,00,000
9	Construction of public toilets	Whole community	Forest department	75,000
10	Public dustbins (Dry and wet)/no.	Whole community	Forest department	75,000
11	Corals for livestock's	Whole community	Forest department	2,10,000
12	Solar Hamam	Whole community	Forest department	75,000
13	Feral Dogs Sterilization	Whole community	Forest department	2,00,000
14	Incentive to dog catcher	Whole community	Forest department	1,00,000
15	Orientation workshop on crop damage protection from wildlife	Whole community	Forest department	10,000
16	Gazebo tents	SHG members	Forest department	25,000
17	Waste treatment facility for Sagnam and adjoining villages	Whole community	Forest department	10,00,000
	TOTAL I			20.02.200
	TOTAL			38,82,300

### 10.2 Proposed Physical & Financial Coverage of Activities identified

S.N.	Activity	Unit Cost	202	2023-24 2024-25		2025-26 202		2020	2026-27		27-28	Total		
	Proposed Physical & Financial Coverage of Convergence Activities		phy	fin	phy	fin	phy	fin	phy	fin	phy	fin	phy	fin
1	Plantation	68,600/Ha			2Ha	1,37,200							2На	1,37,200
2	Maintenance	10,000/ha (1st yr) 6,700/ha (2nd yr) 5100/ha (3rd yr)					2На	20,000	2На	13,400	2На	10,200	2Ha	43,600
3	Contour trenches	15,750/ha			2Ha	31,500							2На	31,500
4	Construction of crate wall at sagnam nalla (90Rmt)	4,400/rmt			1	4,00,000							1	4,00,000
5	Construction of Stair Pathway for Monastery ( 450*4= 1800 run. ft.)		1	2,50, 000		2,50,000							1	5,00,000
6	Irrigation canal construction and Repair/400mtr	750/mtr					400 mt	3,00,0					200mt	3,00,000

7	Construction of public toilets	15,000					5	75,000			5	75,000
8	Public dustbins (Dry and wet)/no.	15,000					5	75,000			5	75,000
9	Corals for livestock's	15000			7	1,05,000	7	1,05,0 00			14	2,10,000
10	Solar Hamam	15000	5	75,00 0							5	75,000
11	Feral Dogs Sterilization	100000					L/S	2,00,0			L/S	2,00,000
12	Incentive to dog catcher	10000					10	1,00,0			10	1,00,000
13	Orientation workshop on crop damage protection from wildlife	10,000			1	10,000					1	10,000
14	Gazebo tents	25,000					1	25,000			1	25,000
15	Capacity building/Training on agricultural/horticultural	1,00,000			1	1,00,000					1	1,00,000

	crops cultivation and processing									
16	Value Addition and marketing trainings related to IGA-cum- Exposure visit for SHG members	6,00,000( L/S)			1	6,00,00			1	6,00,000
17	Waste treatment facility for Sagnam and adjoining villages	10,00,000 L/S			1	10,00,0			1	10,00,000
	Total		3,2 00	10,33,70 0		25,00,0 00	13,400	10,200		38,82,300

### 11. Implementation Strategies

### 11.1 Implementation guidelines on components and sub-components

- Participatory forest management
- Soil & water conservation/landslide control measures
- Community development and livelihood improvement with gender Mainstreaming

### 11.2 Training and capacity building of community institutions (BMC Subcommittee, SHG)

Institution	Areas of training/Capacity Building	Resource Person/group	Location for exposure visit
BMC-Executive committee	Proceeding writing Account maintaining Inventory of Assets created Role & responsibility of EC	JICA Staff/ Forest Department staff/ Consultant	Dehradun, Chamba, Kangra, Solan
SHG	Group formation, Account maintaining, Proceeding writing, Bank linkages etc.	NABARD/Master trainer	<del>-</del>

### 11.3 Year wise detail of training and capacity building plan

S.N.	Year	Community institution	Subject of training	Number of participants	Duration	Resource person/group
1	2023-24	BMC Subcommittee (Executive	Proceeding writing	7-15	2 days	Master trainer
		committee)	Account maintaining	(EC Representative)		FD accountants
			Role & responsibility of EC			
			Gender			
			Group formation and inter			
			loaning in SHG			
2	2023-24	EC and SHG training	M&E /Social audit Assets	3-5	1 day	FTU Coordinators

crea	reated			
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### 11.4 Proposed year wise trainings/ capacity building of community institutions

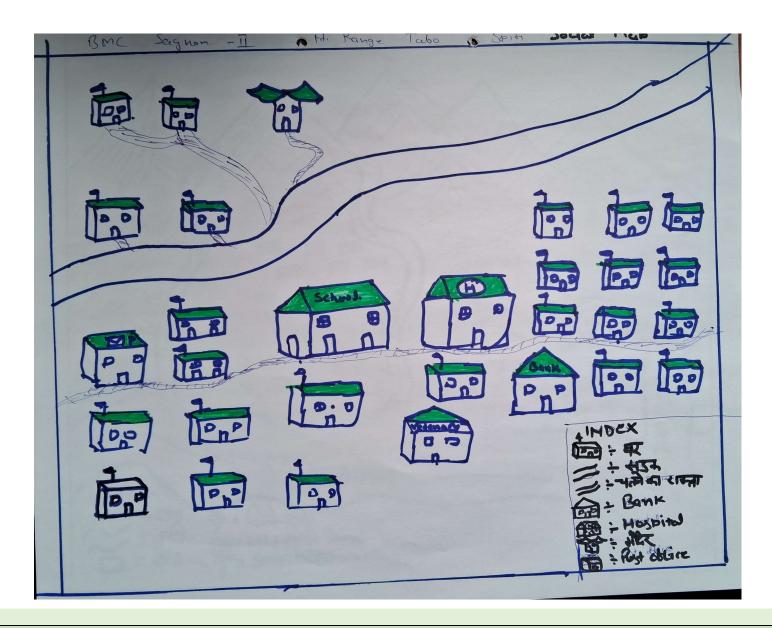
Proposed activities	Unit	Total		2022-2	23	2023-2	24	2024	-25	2025	-26	2026	-27
Training and Capacity Building of Community Institutions		phy	fin	phy	fin	phy	fin	phy	fin	phy	fin	phy	fin
Subcommittee (EC) training													
a) Proceeding account Maintain	no.	2	0	1	0	0	0	1	0	0	0	1	0
b) Role Responsibility, Gender, Assets created	no.	3	0	1	0	1	0	1	0	0	0	1	0
c) M&E and Audit	no.	4	0	1	0	1	0	1	0	1	0	1	0
Sub total		9	0	3	0	2	0	3	0	1	0	3	0
SHG Training													
a) Group formation, proceeding writing	no.	2	0	1	0	1	0	0	0	0	0	0	0
b) Account Maintain, Bank Linkages etc.	no.	2	0	1	0	1	0	0	0	0	0	0	0
Sub total		4	0	2	0	2	0	0	0	0	0	0	0

### 11. Records to be maintained by the Community Institution

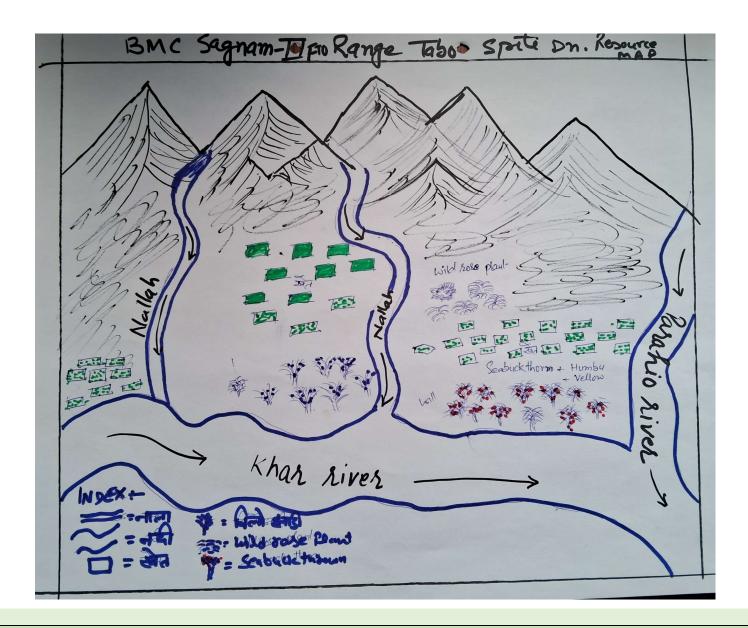
S.N.	Name of the record/register to be maintained	To be maintained by whom	To be verify by whom
1	Membership register, bye laws, & other records	President / Member Secretary VFDS	FTU Officer/FTU Coordinator
2	Proceeding register	Member Secretary VFDS/Joint Secretary	FTU Coordinator
3	Cash account register & related books	Treasurer, Secretary, joint Secretary	FTU Officer/FTU Coordinator
4	Asset created register	President, Secretary	FTU/Project representatives

# ANNEXURES

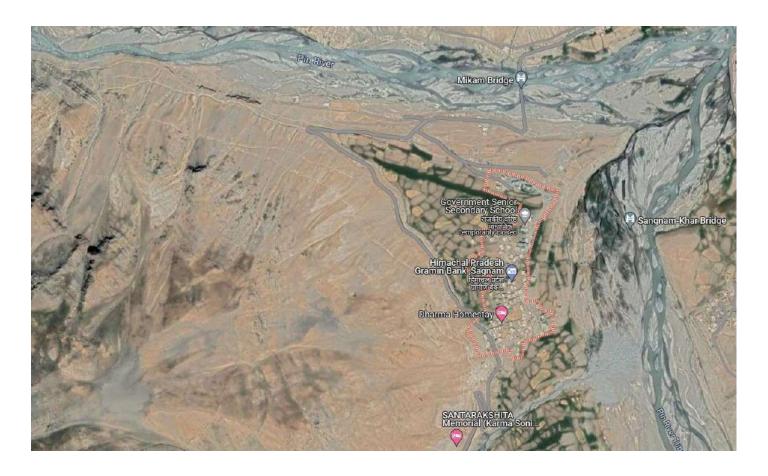
### Annexure-I Social map of Sagnam-1 BMC Subcommittee



## Annexure-II Resource map of Sagnam-1 BMC Sub Committee

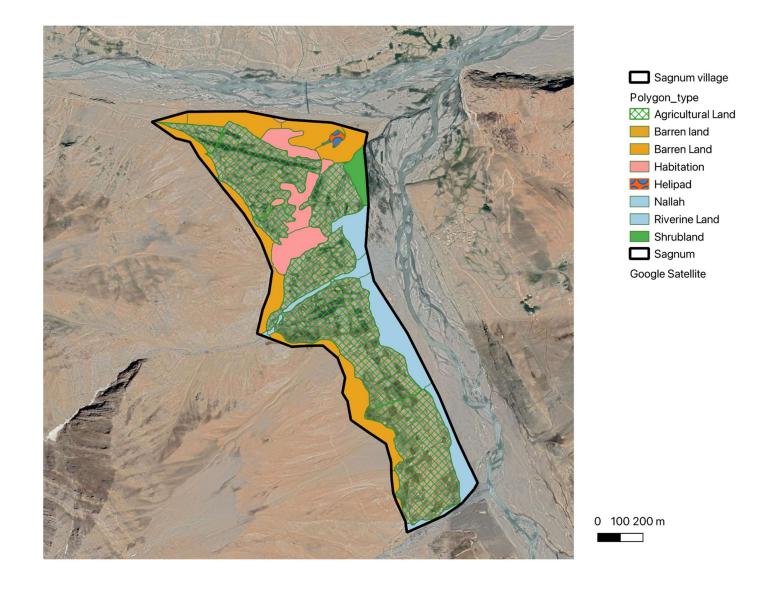


Annexure-III
Aerial image map: Survey & Mapping of Intervention area



## Annexure-IV Contour Map: Survey & Mapping of Intervention Area N/A

## Annexure-V Land Use Cover Map: Survey & Mapping of Intervention Area



Forest Cover Map: Survey & Mapping of Intervention Area

Sagnam BMC plantation area

2 Ha

Sengment

Sengm

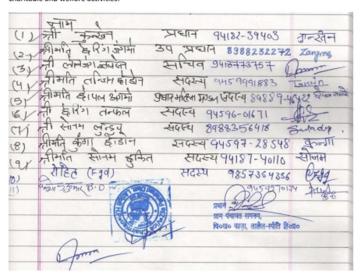
Annexure VI

Man: Survey & Manning of Intervention A

### **Annexure VII**

### Copy of the proceedings of the general body:

Proceedings of the First General Body Meeting of BMC Sub Committee Name Sagnam 1 Society held on 20/04/2021 in the Forest officer, forest Guard, GP Mobiliser Chhodon zangmo, Penchant Pardhan Chairmanship Villagers. Today on 20/04/2021 a meeting of general body of the proposed society was convened in the presence of following persons at Hurling with a view to register a society under the provisions of Himachal Pradesh Societies Registration Act, 2006 for performing charitable and welfare activities:



For the purpose, the members of the proposed society present unanimously elected Chairman/President for day Khunkhen and thereafter the following resolutions were unanimously passed:

Resolution No. 1 The name of the society shall be BMC Sub Committee Sagnam 1 Society.

Resolution No. 2 The area of operation of the society shall be HP, Lahaul & Spiti District, Sub-Divisional Level 2 Resolution No. 3 The Office/Head Office of the society will be situated at Sagnam Tehsil Spiti of Lahaul & Spiti district and its address will be Khunkhen S/O Sonam DorjeV.P.O Sagnam, Tehsil Spiti, District Lahaul & Spiti, HP-172111

#### Resolution No. 4.

The Management of the affairs of the Society will be entrusted by the Bye-laws/ Regulations of the Society to the Governing Body unanimously elected by the General body of the society today on 20/04/2021 and whose names, addresses and occupations are given below:

Sr No.	Name	Designation	Address	Occupation
1	Khunkhen	President	V.P.O Sagnam Tehsil Spiti, District Lahaul & Spiti, HP-172117	farmer
2	Chhering Zangmo	Vice – President	V.P.O Sagnam Tehsil Spiti, District Lahaul & Spiti, HP-172117	House wife
3	Lobzang Gailson	Secretary	V.P.O Sagnam Tehsil Spiti, District Lahaul & Spiti, HP-172117	farmer
4	Tanzin chodon	Member	V.P.O Sagnam Tehsil Spiti, District Lahaul & Spiti, HP-172117	House Wife
5	Chhopel Angmo	Member	V.P.O Sagnam Tehsil Spiti, District Lahaul & Spiti, HP-172117	Student
6	Chhering tamphel	Member	V.P.O Sagnam Tehsil Spiti, District Lahaul & Spiti, HP-172117	Farmer
7	Sonam Lundup	Member	V.P.O Sagnam Tehsil Spiti, District Lahaul & Spiti, HP-172117	farmer

8	Rohit	Member	Village bamot P.O Pahal ,tehsil sunni ,bamot Pin No 171007	Forest guard
9	Kunga chhodon	Member	V.P.O Sagnam Tehsil Spiti, District Lahaul & Spiti, HP-172117	House wife
10	Sonam Chhukit	Member	V.P.O Sagnam Tehsil Spiti, District Lahaul & Spiti, HP-172117	House wife
11	Ashok Kumar	Treasurer	Village Shego Post Office Lara Tehsil spiti District L& S Himachal Pradesh 172114	Block Officer forest Department

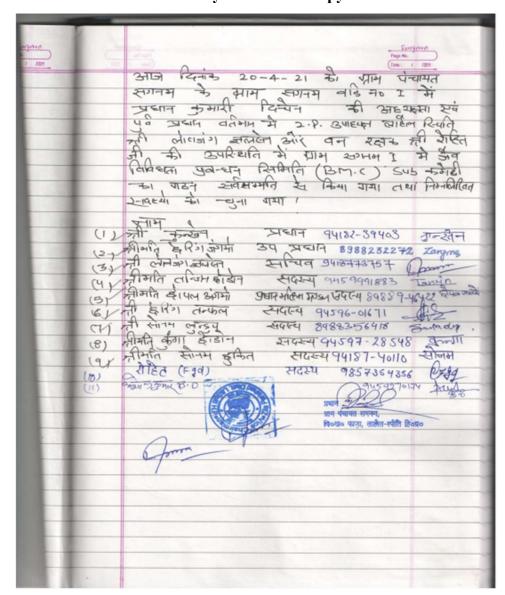
**Resolution No. 5** President, Secretary and Treasurer are authorized to open and operate bank account of the proposed society.

Resolution No.6 All the members of the proposed society resolved to register a society under the provisions of H.P Societies Registration Act, 2006 for performing developmental, charitable and welfare activities. For the purpose, the draft Memorandum and Bye-laws have been read over carefully and adopted by all the members. All the members shall abide by these memoranda and bye-laws of the society.

Resolution No.7 It is unanimously resolved to submit the Memorandum along with bye-laws of the society to the Registrar of Societies H.P for registration under the H.P Societies Registration Act, 2006. The President, Secretary and the Treasurer are, hereby, authorized to make any alteration/ Deletion/Addition and sign all the relevant documents of registration. The General Secretary of the society is also authorized to submit all the documents of registration of society to Registrar and received the same after registration from Registrar. Certified that this is the true copy of proceedings passed by the general body meeting held on 20/04/2021 and is in safe custody of the general secretary.

President Secretary Treasurer

### Annexure VIII Panchayat resolution copy:



## Annexure IX Joint Declaration from Promoter Members

Declaration / NOC
(to be given by the owner of the Premisis)
1KhinKhan Sio   Dio   Wio Sokiawa Dougs do hereby solemnly affirm and declare as under :
1. That I am the legal owner and in possession of Premises at V.P.O SAGNAM TEHSIL SPITI DISTRICT L & S HIMACHAL PRADESH.
<ol> <li>That I shall have No Objection if registered office of the Proposed BMC SUB COMMITTEE SAGNAM 1 is established at my above said Premises and validly used by the society to operate its activities.</li> <li>That I further declare that the contents of my above declaration are true and correct to the best of my Knowledge and if the contents of above declaration are found incorrect / wrong or misleading, the authorities shall have the right to take appropriate action against me as per Provisions of law.</li> </ol>
(Signature)
In the Presence of following witness :
Name: Chhodon Zoingino Address: U. P.O. Kajan
(Signature)

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### Annexure X MoU between DMU and President BMC Subcommittee copy

	Memorandum of Understanding
W	nereas.
no 5/	Village Forest Development Society BMC Sub-Committee (hereinafter leed society mas been constituted as per procedure described in the HP PFM Regulations utilited byGov., of HP vide No. FFL-C (9) 1/2001 dated 23.8.2001 and vide No.FFE-B-F (5) 2016- Part Hidated 19.11.2018, by the Villagersot toppen will will be proceed to the performance of the performan
as Ir ar P	s part of the Japan international cooperation Agency (JICA) supported "Project For improvemental Hintachal Pradesh Forest Ecosystems Management and ivelihoods" (hereinattereatled "Project") the Micro plan (Forest Ecosystems Management alan & Community Development & Livelihood Improvement Plan) for Forest Management and Community Development (hereinattereatled "Plan") for Forest protection, rehabilitation and nanagement of diespecified forest areas has been jointly prepared by the Society and the Forest Division:
3	the Plan contains details of program for conservation, management and development of forest areas. Biodiversity conservation, Livelihood improvement works and also the description of equitable distribution of usuffacts obtained from allocated forest areas and public resources of theward village:
	the Plan has acen approved by the Officer in Charge of the Apart Treest Division (here-inarted all aces Officer) on behalf of clovernment of Linacial Pradesh;
	Now herewith The
	LPurpose of the Vienor and an of Understanding  This Memorandum of Understanding (hereinafter called "NioU") details the responsibilities of the Society regarding man, general and protection of forest area(s) and village(s) resource

- 2.14. Society will open two accounts of VFDS/BMC (Sub-Committee), One for FEMP implementation (FE Account) and second one as; revolving fund under Livelihood activities (CD&LI Account).
- 2.15. The funds and maintenance of account would be in accordance with Para-36 to 43 of the Byelaws notified by Govt. on dated 19-11-2018 for VFDS/BMC under the Project.

### 3. Responsibilities of Forest Department

- 3.1. The Forest Department will provide to the Society the related input materials required to carry out the works specified in the Plan, such as saplings, fencing materials, etc. in a timely manner.
- 3.2. The Forest Department will provide the payments specified in the Plan to the Society for implementation of works carried out in the forest area on the basis of the Plan in a timely manner. The Society to prepare and submit general house approved, six monthly physical & financial plans with budget requirements to DMU through FTU concerned for release of funds. DMU to release the fund to the VFDS/BMC (Sub-Committee)
- 3.3. Funds from other department's schemes as the Panchayat may be able to garner/ converge, may also be used for activities that help meet the project's objectives.
- 3.4. The Forest Department shall provide the necessary advice and guidance to the Society for implementation of works carried out in the forest area on the basis of the Plan.
- 3.5. The Forest Department shall NOT be responsible for any loss in any of the works related to implementation of the Plan and no claim of any sort can be presented against Forest Department.
- 3.6. Forest Department will take legal action against any misappropriation of fund by VFDS/BMC (Sub-Committee).

#### 4. Support by the Project

- **4.1.** The Project will provide funds for Community Development & Livelihood activities (CDAs) identified by the Society and in conformity with the CD&LIP guidelines, which will be implemented by the Society.
- 4.2. The Project will provide to the Society if required the related input/materials required to carry out the works specified in the Plan, such as saplings, fencing materials, etc. in the required qualities and quantities.
- 4.3. The Project will provide to the Society the payments specified in the Plan for implementation of works carried out in the PFM area on the basis of the Plan.
- 4.4. The Project will provide to the Society members training and other capacity building measures, as well as support for income generating activities as specified in the Plan.
- 4.5. The funds ear marked for Plantations, soil and water conservation, Biodiversity conservation etc., will be credited into the VFDS/BMC (Sub-Committee) bank account

according to six-month plan requirement (prepared from Micro plan) of VFDS/BMC (Sub-Committee). In addition, VFDS/BMC (Sub-Committee) to open an account for Livelihood activities.

4.6. Payment and receipt of project funds will be strictly by means of cheques online payment/RTGS etc. or bank transfers to the account of the Society. Society will further distribute fund similarly.

### 5. Rights and Benefit Sharing

- 5.1. The Rights of right holders as admitted in the Forest Settlement will remain unaffected due to constitution of the Society and will continue to be exercised as heretofore.
- **5.2.** The **Benefits** which Society members and their user groups will be entitled to after closure of plots / patches in the forest for various project interventions are as follows:
- i) to collect the yield such as fallen twigs, branches, loppings, grass, bamboos, fruits, flowers, seeds, leaf fodder and non-timber forests products free of cost through individual or collective arrangements as decided by the Society;
- ii) to the sale proceeds of all intermediate harvest, subject to protection of forest and plantations for at least 3 years from the date of agreement;
- iii) to organize and promote vocational activities related to forest produce and land; and other activities such as promotion of self-help groups which may provide direct benefits, including micro-lending to women. None of the activities so promoted shall affect the legal status of the forest land;
- iv) recorded rights over the forest shall not be affected by these benefits;
- v) after 5 years, the Society may expand the area, on the basis of a fresh agreement deed, by inclusion of adjoining or nearby areas;
- vi) to utilize at least 40 percent of the sale proceeds on forest regeneration activities including soil and water conservation.

Provided that for the purpose of usufruct, the usufruct sharing family shall be one unit.

5.3 The Society will be entitled to their share of payments from intermediate and final felling, whenever they take place in this forest, as laid out in the PFM Regulations of HP, 2001.

### 6. Monitoring & Evaluation

6.1. Monitoring and Evaluation of project activities will be done at different levels, including by the EC, a participatory monitoring committee and an independent third party apart from Project authorities.

### Memorandum of Understanding

We are awar, that the benefits mentioned in this agreement shall be available to the Society only when itdischarges its duties, responsibilities and works in a satisfactory manner and this is certified by the ForestOfficer every year. However, if the Forest Officer fails to fulfil conditions mentioned it para 1 and 1 oils is agreement and this is a cause for the Committee not able to discharge its exponsibilities and works, then it will be kept in mind while evaluating the works of discharge its exponsibilities and works, then it will be kept in mind while evaluating the works of discharge its exponsibilities. the Committee every year

. President, BMC (Sub-Committee), declare on behalf President, BMC (Sub-Committee), declare on benait of the Society, that I am committed to follow all the conditionsmentioned in this MoU and am signing this arcmo after 2edir randerstanding all conditions mentionedherein, literally and in their original meaning

(Name and Signal Sub Committee On behalf of VIDS EAST Committee)

Forest Division

Mitnesses: Village Forest Development Society BMC (Sub-Committee) and
The Forest Department for Participatory Forest Management.

1. Ashirtash Pathik (Mys.) Tich (Wight)

Divisional Forest Officer

On Behalf of Offices Forest Division
Himachal Profess Torest Department

## $\begin{tabular}{ll} Annexure~XI\\ Certificate~of~Registration~of~the~BMC~Subcommittee\\ N/A \end{tabular}$

# Annexure XII Copy of Bylaws

THE BYE-LAWS

OF

The Sagnam Village Forest Development Society

Project for Improvement of HP Forest Ecosystems Management & Livelihoods

#### NAME, ADDRESS AND AREA OF OPERATION

1 The society shall be called the BMC Sub-Committee Sagnam 1 Village Forest Development Society.

It shall be referred to here-in-after as the society.

- 2 The Registered address of the society shall be C/O Khunkhen S/O Sonam Dorje Post Office Sagnam Tehsil Spiti District L&S.
- 3 The area of operation of the society shall cover the following village/villages:

#### Definitions

- 4 In these by-laws, unless there is anything repugnant in the subject or context
  - "Act" means Indian Forest Act, 1927, (Act No.16 of 1927) as amended in its application to Himachal Pradesh;
  - "Conflict Resolution Group" means a group consisting of representatives of the concerned Gram Panchayats, a representative of the local nongovernment organizations or local community based organizations, a representative from local/migratory community and the concerned Assistant Conservator of Forests/Forest official;
  - "common land', "family', "Gram Panchayat', "Panch", "Pradhan", "Village" and "Ward" shall have the meanings respectively assigned to them in the Himachal Pradesh Panchayati Raj Act, 1994 (Act No.4 of 1994);
  - iv CD & LIP: Community Development and Livelihood Improvement Plan refers to the plan activities that shall be included in the microplan to enhance community well being and resilience of household economy.
    - CIG: Common Interest Group refers to a group of persons who have a common interest in a particular Livelihood Improvement Activity.
  - vi "Department" means the Himachal Pradesh Forest Department.

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- address the issues related to the forest and forest areas that are managed by group members
- "Ecosystem approach" as defined in Convention on Biological Diversity, 2004
- x. "Forest Ecosystem Services (FES) approach" is defined as the management of a particular forest ecosystem that aims to realise the best fit of combination of FES as demanded by Sub-Committee
- xi. "Forest offence" as defined in IFA, 1927.
- "Forest Officer" means a Forest Officer as defined under sub-section (2) of section 2 of the Act;
- xiii. "Executive Committee" means executive body of Sub-Committee;
- xiv. "General House", means General House of the Sub-Committee;
- xv. "Government " means Government of Himachal Pradesh;
- xvi. "Grazier group" means a group of persons, resident members or migratory graziers, who are dependent on the grazing resource in the selected area for meeting their livelihood needs;
- xvii. "Micro-plan" means a holistic forest management and development plan of the area selected for participatory management;
- xviii. "participatory forest management" means management of Government forest and Government land including common land managed Jointly by the Sub-Committee and by the Department;
- xix. "right holders" means an individual (s)/community or group as mentioned in record of right holders in settlement record / IFA 1927/FRA 2006
- "selected area" means any Government Forest and Government land including common land selected under regulation 3 of these Regulations;
- "self-help group" means any organized group of persons, who collectively by mutual help are able to enhance their economic status through resource based activities;
- xxii. "site specific plan" means a sub component of the micro-plan which is a technically appropriate plan for the site;
- "Sub-Committee' means the Village Forest Development Sub-Committee registered under section 6 of the H.P. Societies Registration Act, 2006 for participatory fore management;
- viable, environmentally benign and socially beneficial, and which balances presumd future needs; and

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- 3. The physics and the index simulates shall be
  - to the memorial might embrate a flow that all many establishms defined for posturpourly memory-ment has an established formal acceptant memorial and, but his entry elementation and the historial major establish is a financial by the digit immuties through a memory mental process.
  - it to blentify and set up respilets measures and societing conditions that support participatory planning, effective implementation of settings mentioned in the natural plan and monitoring and readination processes that result in feed without no observables.
  - It undertake such other activities as are incubented to or conductor to the attenue of of the above (depositive) in a sustained de manner.

#### ATEATOL RESIDE

- Subject to the provisions of by less T, any individual shall be eligible for admission as a member of the Sub-Committee, if he is:
  - uver 18 years in age and of sound mind;
  - ii. I boundide resident in the area of operation of Sale ( committee,
  - iii.— of good character; and
  - iv. right holder (including landless right holders) seconding to revenue record
- For individual shall be eligible for admission as a member of the Sale Committee, it:
  - He/she has applied bankruptcy. Or
  - He/she has been declared as insolvent, Or
  - He/she has been sentenced for any offence; involving dishonesty or moral torpitude within 5 years preceding the date of his admission as a member.
- A member may be expelled for one or more of the following reasons:
  - Crasing to reside in the area of operation of Sub-Committee.
  - ii. Consistion of a criminal offence involving dishonesty or moral trapitude,
  - iii. Application for bankruptcy,

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iv.	An action which may be held by the general body to be dishonest or contrary to the interest, reputation and stated objects of the Sub-Committee.	Jo.
9. i.	A person shall cease to be member of the Sub-Committee in one or more of the following circumstances: -  Death;	40
ii. iii.	Withdrawal after six months" notice to the Secretary of the Sub-Committee, Permanent insanity;	70
iv.	Declaration of bankruptcy;	
v.	Ceasing to be a right holder in the Forest.	

#### GENERAL BODY

- 10. All the members of the Sub-Committee on a given date shall constitute the General Body of the Sub-Committee. New members shall get their names registered in the Membership Register, with the Secretary.
- The General Body of members of the Sub-Committee shall meet once in six months.
   A meeting of the General Body shall be convened by the Secretary of the Sub-Committee.
- 12. In case of an emergent situation, if 20% of the total members submit a requisition/application to the President, Vice-President or any member of the executive Committee, a meeting of the General Body shall have to be called within 7 days of such requisition / application.
- 13. The Secretary shall verbally or in written inform all the members at least 7 days in advance, specifying the date, place and time and agenda of the general meeting. The written information / notice of a general shall be affixed on the walls at least two conspicuous places, designated by the General Body itself.
- 14. The quorum of the meeting shall be two- third of the total number of members, out of which 50 % should mandatorily be female members.
- 15. The decisions in these meetings will be subject to, the will of the majority. The issues for discussion/decision shall be raised either verbally by the members in the meeting or by conveying the same in written to the Secretary. In the latter case, the issue shall be: raised by the Secretary and if desired so, the name of the member conveying the issue shall not be disclosed.

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- 16. The President or, in his absence, the Vice-President shall preside over meetings of the General body. When both of them are absent, the members present shall elect a Chairperson for the meeting.
- 17. Every member of the General Body shall have one vote. Voting by proxies shall not be allowed at the general body. Unless otherwise provided in these by-laws, all questions shall be decided by a majority of votes of the members present. When the votes are equal, the Chairperson of the General Body shall have a casting vote.
- Unless otherwise provided in these by-laws the ultimate authority in all matters relating to the administrations of the Sub-Committee shall vest in the General Body.
- 19. Without prejudice to the general provisions of the preceding by-law, the General Body shall have the following powers and duties:
  - to approve of the micro plan prepared by the joint forest management Sub-Committee for the management of forests under its jurisdiction, implementation of the project activities and sharing of the usufructs/benefits.
  - ii. to approve the amendments in by-laws framed for the Sub-Committee.
- the election, suspension, and removal and of the elected members of the Executive Committee.
- Amendments in the Micro plan. However, such armendments shall be valid subject to the approval by the concerned Divisional Forest Officer.
- Transaction of any other business with the permission of the Chairperson of the general body;
- Each member present at general meeting shall be entitled to exercise one vote only.
   The President shall have a casting vote.
- 21. All business discussed or decided at a general meeting shall be recorded in a proceeding register by the Secretary, which shall be signed by all the members at the end of the meeting.
- A copy of the proceedings of the meeting shall be to the DFO, through the concerned Forest Guard/range Officer. Another copy shall be sent to the Gram Sabha.

### EXECUTIVE COMMITTEE

- 23. Executive Committee shall consist of 7 to 16 members (depending upon the population). The constitution of Executive Committee of the Sub-Committee shall be as follows as per the HP Participatory Forest Management Rules:
  - i. President

- to be elected by General House

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- Vice President
- iii. Four Members
- to be elected by General House
- to be elected by General House; Joint Secretary (woman) - do
- Ward Panch
- ex-officio member; President
- vii. Representative

vi.

- Mahila Mandal
- viii. Three Members
- Local women group -do
- to be co-opted from the village level committees constituted by other departments of the Government, societies register under the Societies Registration Act, 1860, (Act No.21 of 1860); forest/resource based user groups, self-help group and grazier group;
- Local Forest Guard/Guards shall also be the members. ix.
- x. Member Secretary
- Member Secretary to be elected by General House.
- Xi. Treasurer
  - The Concerned Deputy Ranger shall be Treasurer. In case of two or more Deputy Rangers, the senior most shall be Treasurer. There will be a joint account in the names of President and Treasurer. The said account will be operated jointly by both and the necessary cash book and other financial account, measurement of works will be recorded by Treasurer.

Provided that at least 50% members of the Executive Committee shall be women. The Joint Secretary shall assist the Member Secretary in the execution of his/her functions.

- 24. The elections of the Executive Committee shall be held every two years. The elected members of the Executive Committee shall hold once for a period of two years from the date of assumption of office.
- The election shall be conducted through casting single ballot by the members of the 25. General Body or by means of General Consensus amongst the members.
- 26. The members of the Executive Committee shall meet once every month.
- 27. The information regarding the meeting shall be given to the members by the Secretary well in time.
- In emergent circumstances, the meeting of the Executive Committee shall be called 28. on the verbal/written requisition of at least 3 members of this committee. Such meeting shall be called within 3 days of submission of such requisition to the Chairperson /Secretary of the Committee.

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- ane quorum of the meeting shall have to be two-third of the total number of members of the Executive Committee; only then the decisions taken in the meeting shall stand 30.
- If the Chairperson of the meeting is a male, the vice-chairperson should be a female and viceversa.
- 31.
  - Executive Committee shall have the following powers and duties: -To prepare a schedule for the activities enlisted in the micro plan, to be implemented by the Sub-Committee. The schedule shall include the specific distribution of funds and labour activity wise and the provision for monitoring and of the progress. The beneficiaries of a particular activity shall have to contribute in terms of labour. If the same is not possible, they shall be delegated the responsibility to supervise the progress of the on-going works.
  - To prepare a list of activities to be carried out and the corresponding budget every six months, and to get the same approved by the General Body.
  - Members of the Executive Committee shall carry out the inspection of the areas in question once in a month and shall impart necessary directions or take proper action in case any drawback/irregularity is found.
  - To take appropriate action under the relevant Act/Rules against an individual who violates any of the rules mentioned in the micro plans. The Executive shall summon such offender either in its meeting or in the General Body and shall initiate action against him/her as per the recorded procedure, in case the reply is not found satisfactory.
  - The Executive Committee shall not initiate any legal action against an individual without affording him/her an opportunity to be heard.
- Executive Committee shall not carry out any change in the micro plan on its own. vi.
- The Executive Committee shall employ any person for a work/activity, mentioned in the schedule and shall disburse honorarium as per prescribed project norms for such work. The terms and conditions for the same shall be decided by the Executive
- All business discussed or decided at a meeting of the Executive Committee shall be 32. recorded in a proceeding register by the Secretary, which shall be signed by all the members at the end of the meeting.

Powers of the Executive Committee

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Committee shall exercise the powers of a "Forest Officer" as assigned by the Government under the Act.

## Usufruct Sharing

- Sub-Committee shall be entitled to the following benefits, namely: to collect the yield such as fallen twigs, branches, loppings, grass, bamboos, fruits, flowers, seeds, leaf fodder and non-timber forests products free of cost through individual or collective arrangements as decided by the Sub-Committee;
  - to the sale proceeds of all intermediate harvest, subject to protection of forest and plantations for at least 3 years from the date of agreement;
  - iii. to organize and promote vocational activities related to forest produce and land; and other activities such as promotion of self-help groups which may provide direct benefits, including micro-lending to women. None of the activities so promoted shall affect the legal status of the forest land;
  - recorded rights over the forest shall not be affected by these benefits;
  - the Government shall charge no royalty on the forest produce within the selected area;
  - vi. after 5 years, the Sub-Committee may expand the area, on the basis of a fresh agreement deed, by inclusion of adjoining or nearby areas;
  - vii. to utilize at least 40 percent of the sale proceeds on forest regeneration activities including soil and water conservation.

Provided that for the purpose of usufruct, the usufruct sharing family shall be one unit.

35. That all the assets and resources created by the Sub-Committee in tandem with forest department shall be properly recorded and the sharing of usufructs shall be legally binding on both parties as per the agreement executed between them in the beginning itself. Forest department shall also aim at creating alternative sources of income (in form of fire protection works/forest plantations/nursery raising/soil and water conservation/any revenue from harvesting of planted commercial forests and other resources).

#### Funds and Maintenance of Accounts

Funds shall be generated by the Sub-Committee through contribution by members 36. and sale of usufructs under these regulations. All funds, including those received from

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- the Government, Gram Panchayats and non-government sources shall be utilized
- 37. The sum received by the Sub-Committee shall be deposited in the name of the concerned Sub-Committee in a nationalized bank or scheduled bank or co-operative bank or post office and the account shall be operated under the signatures of the President and Treasurer of the Sub-Committee.
- The Treasurer shall maintain the account of Revenue and Expenditure of the Sub-Committee in a proper Account/Cash Book. The account so maintained shall be placed before the Executive Committee as well as the general body. The funds from all sources shall be utilised only on activities enlisted in the micro plan. The withdrawal of funds from the Bank account shall be affected through signing cheques / electronic transfers/ bank drafts only.
- 39. The Sub-Committee shall elect an Audit & accounts Committee comprising of 3 members. This committee shall carry out the inspection of the works done and the accounts maintained by the Executive Committee and if it comes across any discrepancy/irregularity, the same shall be intimated to the General Body.
- 40. The Sub-Committee shall seek the advice of certain experts on important matters. No fee shall be payable for such service; however the Sub-Committee can pay honorarium and travelling expenses can be disbursed to such experts.
- 41. Treasurer shall be entitled to keep an amount of Rupees 1000/- only, for expenditure in case of an emergent situation. In case of any additional income he/ she shall get the amount deposited in the bank, within 3 days of its receipt.
- The Treasurer shall be entitled to spend an amount of Rupees 1000/- only in case of an emergency, with the prior permission of the President of the Executive Committee.
- The accounts of the Sub-Committee shall be audited by a Gov't-recognized Auditor on an annual basis, and shall be shared with forest department.

PRESIDENT

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readership to the Village Forest Development Sub-Committee. For undertaking different responsibilities, he/she shall seek the help of the other members

- ii) To preside over the meetings of the Executive Committee and General Body
- iii) To facilitate decision-making in Executive Committee on legal matters
- iv) To sign and authenticate all documents on behalf of the Village Forest Development Sub-Committee
- v) To sign the MOU with any department/agency (after due approval from Executive Committee) on behalf of the Village Forest Development Sub-Committee
- vi) To prepare plan and arrange for the implementation of the micro plan with the agreement and cooperation of other members of the Executive Committee
- vii) To sign cheques (Banks) on account of expenditure duly approved by the Executive Committee and issue utilisation certificates (UCs) jointly with signatures of Treasurer.
- viii) To coordinate with other departments/agencies/non-government agencies
- ix) To carry out regular inspection of the project works such plantations, stream rejuvenation, lantana eradication, grass improvement, livelihood development, fire prevention and control etc. And to take steps for the improvement of forest and natural resources
- x) To assist and facilitate working of the forest department project authorities especially with respect to detection and investigation of forest offences
- xi) To supervise the working of the Executive Committee and to give necessary directions from time to time

# MEMBER SECRETARY

(i) To organize the meetings of Executive Meeting, General Body and other meeting Executive Committee, General Body and meetings with forest department, project 45. authorities and other agencies and record in proceeding registers.

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- ii) To affix relevant information pertaining to Sub-Committee, Forest and Project works on notice boards for general awareness and to transmit relevant and necessary information to all the members of the Sub-Committee especially pertaining to the decisions, plans, budgetary provision, institutional rules and
- iii) To assist the president in fulfilling his duties and responsibilities

# TREASURER

46. To maintain the cash/accounts books and registers, other related record pertaining to Sub-Committee. He/She shall also look after the records and files pertaining to the

Sub-Committee and keep them with proper care.

- ii) To operate the Bank Account on behalf of the Sub-Committee along with President of the Executive Committee.
- iii) To maintain all records pertaining to revenue and expenditure, profit and loss, demands, resolutions for new expenditures, bills and vouchers etc. related to Sub-Committee
- To assist the Executive Committee in preparation of Budget every six month.
- To issue receipts pertaining to revenue and expenditure and to ensure spending of money for the works for which the money has been duly approved by the Executive Committee
- vi) To ensure regular audit of the accounts of the Sub-Committee from the Gov'trecognized auditors and to supply the audit report to the Forest Department with signature of the President and Member Secretary and Treasurer himself/herself.
- vii) To carry out correspondence regarding project with other departments agencies and project authorities.
- viii) to sign cheques (Banks) on account of expenditure duly approved by the Executive Committee and issue utilisation certificates (UCs) for works, jointly with signatures of President of the Sub-Committee

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- Sub-Committee under the Government of Himachal Pradesh Grant-In- Aid to the 2002 subject to the availability of funds and satisfactory performance of functions by
- Coordination meetings: There shall be quarterly meeting of the executive committee wherein there will be review and feedback on the various project/forest related pertaining to the management and protection of forest areas and other relevant issues.

  In case of
  - i. In case of any dispute in relation to usufruct sharing in Sub-Committee, the Deputy Ranger concerned of the Department, shall take steps to reconcile the dispute. In case report to the Ranger Officer concerned of the Department. The Range Officer, after hearing the parties shall resolve the dispute within 30 days from the date of receipt of report of the Deputy Ranger.
  - In case of any dispute between two villages or between the Sub-Committee and the Forest Department, an application shall be submitted to the Conflict Resolution Committee for settlement of the sane. The Committee shall resolve the dispute within 15 days of such application.
- Appeal. An appeal shall lie from the decision of the Range Officer the Conflict Resolution Group to be filed within 30 days from the date of decision, who shall decide the same within days from the date of filing of appeal, after affording an opportunity of heard to the parties. The decision of the Conflict Resolution Group shall be final and binding on the parties. The Conflict Resolution Group shall send a copy of the decision to the Sub-Committee and the Divisional Forest Officer concerned free of cost.

#### 51. Powers of the Government

Notwithstanding anything contained in these regulation, the Government shall have the powers to issue directions to the Sub-Committee on participatory forest management processes, micro-planning, coordination, monitoring, grant-in-aid and implementation mechanisms.

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# **Annexure XIII Photos during Micro Planning Process**



#### **Annexure XIV**

## Micro Plan Assessment Criteria for Financing and Sanctioning

DMU: Kaza FTU: Kaza Forest Beat: Pin GP: Sagnam BMC Sub Committee: Sagnam-1

	Assessment Criteria	Achievement	Status at the time applying for approval
Process R	elated		
1	GP Level and ward level awareness done	20/04/2021	Done
2	GP consent/ward consent to work with project obtained	20/04/2021	Done
3	BMC SUB COMMITTEE formed/Executive committee constituted	03/06/2022	Done
4	BMC SUB COMMITTEE registered	03/06/2022	Done
5	MOU signed between DMU and BMC SUB	24/07/2023	Done
	COMMITTEE for undertaking micro planning and implementation		
6	EC 1st meeting held to explain their role and responsibilities	03/06/2022	Done
7	BMC SUB COMMITTEE account opened		Done
8	Percent of households represented in micro planning	100%	Done
	process (App)		
9	Percent of women participants involved in micro planning process (App)	95%	Done
10	Collected information crosschecked and updated in general assembly	YES	Done
11	Women, poor, youth and other communities were involved in micro planning process	YES	Done
12	BMC SUB COMMITTEE involved in information	YES	Done
	analysis and finalizing key emerging activities		
13	Micro plan (FEMP, CD&LIP) approved by BMC SUB		Done
	COMMITTEE in general assembly and confirmed by		
	executive committee		

14	Formats prescribed for MP (FEMP, CD&LIP) used by	YES	Done
	social and technical staff		
15	Total amount of FEMP, CD&LIP and convergence mentioned in MP	38,82,300	Done
16	Days taken to complete MP (FEMP, CD&LIP)	60	
17	Micro plan submitted by FTU to DMU		
18	Micro plan approved by the Head of DMU	9/12/23	Done
Output rel	ated		
19	List of Executive Committee members attached	Yes	
20	BMC SUB COMMITTEE contribution is there	In Progress	
21	Are FEMP and CD&LIP activities in line with project objectives	Yes	
22	Livelihood activities checked for initial technical feasibility and economic viability by micro planning team	Yes	
23	Convergence activities included	Yes	
24	BMC SUB COMMITTEE training and capacity building aspect included	Yes	
25	Costing of FEMP, CD&LIP checked by DMU	Yes	
26	Micro plan includes adversely affected households/group, if any	Yes	
27	PRA tools, wellbeing analysis, BMC SUB COMMITTEE resolution, maps of FEMP and other documents are annexed	Yes	
28	Sources of secondary information mentioned in the micro plan	Yes	

Assessed by FMU

Recommended by DMU

Approved by PM

Annexure XV
Total Budget of BMC Sub Committee at Glance

S.N.	Activity	Unit Cost	2023-24		2024-25		2025-26		2026-27		2027-28		Total	
	Proposed Physical & Financial Coverage of Convergence Activities		ph y	fin	phy	fin	phy	fin	phy	fin	phy	fin	phy	fin
A	Total (Plantation)	68,600/Ha			2На	1,37,200							2На	1,37,200
В	Total (Maintenance)	10,000/ha (1st yr) 6,700/ha (2nd yr) 5100/ha (3rd yr)					2На	20,000	2На	13,400	2На	10,200	2Ha	43,600
C	Total (SMC trenching)	15,750/ha			2Ha	31,500							2На	31,500
D	Total (S&WC)	4,400/rmt			1	4,00,000							1	4,00,000
E	Total (community development)		1	2,50, 000		2,50,000							1	5,00,000
F1	Total SatoYama Irrigation canal construction and Repair/400mtr	750/mtr					400 mt	3,00,0					200mt	3,00,000

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F2	Total SatoYama Construction of public toilets	15,000					5	75,000			5	75,000
F3	Total SatoYama Public dustbins (Dry and wet)/no.	15,000					5	75,000			5	75,000
F4	Total SatoYama Corals for livestock's	15000			7	1,05,000	7	1,05,0 00			14	2,10,000
F5	Total SatoYama Solar Hamam	15000	5	75,00 0							5	75,000
F6	Total SatoYama Feral Dogs Sterilization	100000					L/S	2,00,0			L/S	2,00,000
F7	Total Sato Yama Incentive to dog catcher	10000					10	1,00,0			10	1,00,000
F8	Total SatoYama Orientation workshop on crop damage protection from wildlife	10,000			1	10,000					1	10,000
F9	Total SatoYama Gazebo tents	25,000					1	25,000			1	25,000

F10	Total Sato Yama Waste treatment facility for Sagnam and adjoining villages	10,00,000 1/s				1	10,00,0				
G1	Total (LIP)	1,00,000		1	1,00,000					1	1,00,000
G2	Total (LIP)	6,00,000(L/ S)				1	6,00,00			1	6,00,000
	Total(A+B+C+D+E+F+G)		3,25, 000		10,33,70 0		25,00,0 00	13,400	10,200		38,82,300