







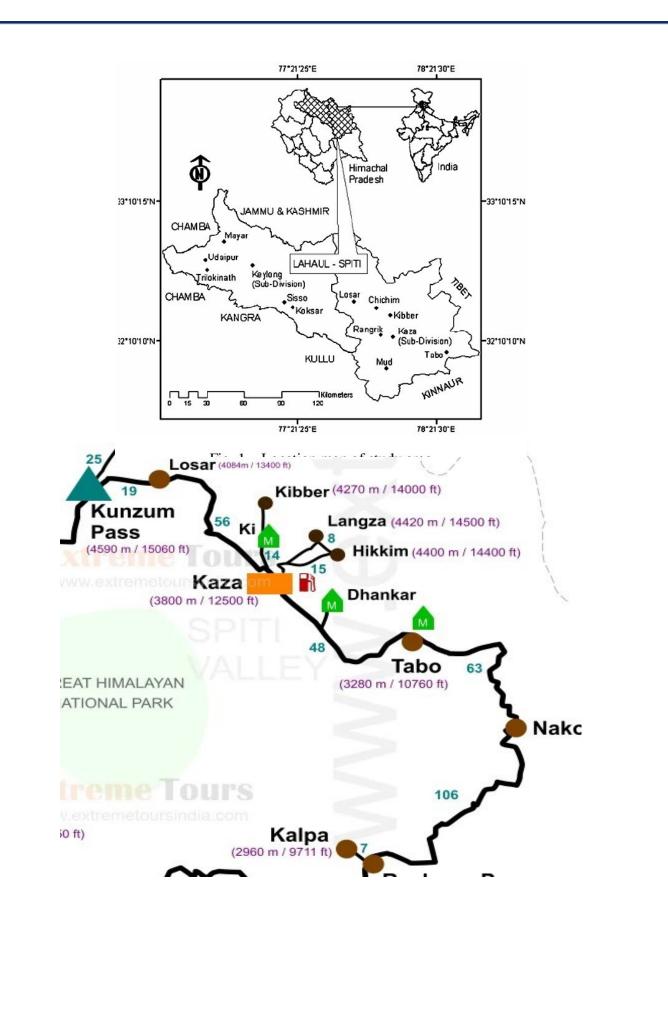
MicroPlan

Bio-DiversitySubCommitteeLANGCHAVILLAGE

ProjectforImprovementofHimachalPradesh ForestEcosystemsManagementandLivelihoods

GramPanchayat	Langcha
B M C	Langcha
BMC SubCommittee	Langcha
ForestBeat	Kibber
Forest Block	Kibber
Forest Range	- WildLifeRange,Kaza
ForestDivision	WildLife DivisionSpiti
Forest Circle	Kaza

HIMACHALPRADESHFORESTDEPARTMENT



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	Abbreviations&Acronyms				
ADMU	AssistantDivisionalManagementUnit				
ANR	Assisted NaturalRegeneration				
ВО	BlockOfficer				
СВМР	CommunityBasedBiodiversity ManagementPlan				
EC	ExecutiveCommittee				
CD&LIP	Community Development&LivelihoodImprovementPlan				
CIG	CommonInterestGroup				
DMU	DivisionalManagement Unit				
SMS	SubjectMatterSpecialist				
FCCU	ForestCircleCoordinationunit				
Fgd	Forest Guard				
FTU	FieldTechnical Unit				
GIS	GeographicInformationSystem				
FD	ForestDepartment				
GOHP	Governmentof HimachalPradesh				
GP	GramPanchayat				
Ha.	Hectare				
HHs	Households				
HP	HimachalPradesh				
HPFD	HimachalPradesh Forest Department				
IFMS	Integrated ForestManagementSystem				
IGA	IncomeGenerationActivities				
INR	Indian Rupees				
JICA	JapanInternationalCooperationAgency				
MIS	Management Information System				
MM	MahilaMandal				
NR	NaturalRegeneration				
NTFP	Non-TimberForestProduce				
O&M	Operationand Maintenance				
PFM	ParticipatoryForestManagement				
PIHPFEM&L	Project For Improvement of Himachal Pradesh Forest				

	EcosystemsManagement &Livelihoods
РМС	ProjectManagement Consultant
PMU	Project ManagementUnit
PRA	ParticipatoryRural Appraisal
RRA	RapidRural Appraisal
RO	RangeOfficer
SHG	Self Help Group
SWC	SoilWaterConservation
ТОТ	Trainingof Trainers
BMC	BiodiversityManagementCommittee
YM	Yuvak Mandal
WHS	Water HarvestingStructure

1<u>Introduction</u>

1.1 Project Objectives

The objective of the "Himachal Pradesh Forest Ecosystems Management and LivelihoodsImprovement Project" (HPFESMLIP) is to manage and enhanceforest area ecosystemintheprojectarea, by sustainable for estecosystemmanagement, biodiversity conser vation, livelihoods improvement support and strengthening institutional capacity, thereby contributing to environment conservation and sustainable, socioe conomic dev elopment in the projectarea in the state of Himachal Pradesh.

1.2 ProjectApproachandStrategies

The project aims to sustainably manage and enhance the ecosystems of the forests in theproject area by project interventions under four components in correspondence with theproject outputs as below. Each component has the preparatory phase, implementationandphase outphases.

Output 1: Sustainable Forest Ecosystem Management,Output2:BiodiversityConservationand Output 3: Livelihoods Improvement Support are supported byOutput 4:InstitutionalCapacity Strengthening

The basic approache stobe followed under the project to achieve the project object ives include;

Empoweringforest-fringecommunities, particularlywomen, through sustainable livelihoods and ensuring positive involvement of rural people in managing their ownenvironment. Strengthening community institutions such as Village Forest Development Society (VFDS) and Biodiversity Management Committees (BMCs)/subcommittees.

Alleviatingpovertyoftheruralpoorthroughincomegenerating interventions.

Planning and implementing site specific technical and scientific forestry interventions, includingsoil and moisture conservation, restocking of degradation areas through appropriate Silvi-cultural operations utilization of the inherent potential of available rootstock, underplanting with suitable species, block plantations in blank patches. Promoting inter-sector alconvergence (ISC). Interventions to be planned and implemented by VFDS/JFMCs and BiodiversityManagementCommittee/subcommittees(Micro planning). Capacity Development of Himachal Pradesh Forest Department and VFDS/JFMCs.Promotingforest-basedandnon-

forestbasedenterprises(suchasthevalueadditionandmarketingofmedicinal&aromaticplants, etc.)togeneratesustainableemployment,developindustriesandenhancethevalueofforests. Caring for the socially disadvantaged groups in the society, such as scheduled castes,Scheduled Tribes, forest dwellers, women and other vulnerable people through propersafeguard measures as per the JICA guidelines and applicable Indian laws and regulations.Institutioncapacity strengtheningofForest departmentand itspersonnel.

1.3 ModeofOperation

The identified areas shall be divided into Participatory Forest Management (PFM) Modeand Departmental Mode. In case identified potential interventions areas are away fromcommunities but interventions are required for the purpose of the Project and the PFMinstitutes (VFDS/BMC sub-committee) showing their unwillingness to work in these areas, such interventions are to be conducted in the departmental mode. However, PFM modeshallbeselectedwhereapplicablefromtheviewpointofsustainability. Themajoractivities tobeimplementedunderdifferent modesincludeasbelow.

PFMMode

DrainageLineTreatmentincluding ex-situSoil &WaterConservation(SWC)workDensificationofmoderatelydenseforestsbyPlantationofmultipurposetreesindegradedforestssoastoconvertopenforestsintomoderatelydenseforestsandmod eratelydenseforeststodenseforests;gapplantationsshouldbepreferredtobemoreeffective onlargerareas.

Afforestation/ Improvement ofOpen/ ScrubForestRehabilitationofForestAreasInfestedwithInvasive Species Improvement of Pastures/ Grasslands (including in-situ SWC works)ForestFireProtection ForestryInterventionatOutsideofForestAreas

DepartmentalMode

Improvement of Forest Boundary Management at Project Intervention AreasImprovement of Nurseries Seedling Production Non-PFM Drainage Line Treatment (ex-situ SWC work: including treatableSurfaceerosionControl) Secondary Silvi-cultural Operations for Improvement of Existing ForestsImprovement/Densification of Moderately DenseForest Afforestation/Improvementof Open/ScrubForest Improvement of Pastures/ Grasslands (including in-situ SWC work)ForestFireManagement

In addition, the Community Development & Livelihood Improvement Plan (CD & LIP) willbe executed by PFM institutions including Common Interest Groups (CIG), User Groups,Self-helpGroups(SHGs) andExecutive CommitteeoftheVFDS.

1.4 NeedforSub-CommitteeLevelMicroPlan

All the Project activities at the BMC sub-committee level shall be undertaken afterpreparation of along-term (5-7Years) development/perspective microplan.

Microplanningshallbeconsidered as a nempowering process that helps BMC sub-

committeetolearnmoreaboutthemselves,theirresources,issuesandchallenges,strengths and weaknesses, and further to plan for their own development and sustainableresourcemanagement.

The implementation of PIHPFEM&L activities at the BMC sub-committee level shall beguided by an approved Micro Plan prepared by the respective VFDS/BMC sub-committee.Microplanpreparationshallbethefirststepofimplementationofthefieldactivities.

Micro Plan shall be a comprehensive development plan with a special focus on forest andlivelihood development. The micro plan shall cover both forest and non-forest areasmanaged by the BMC sub-committee. Micro plan shall integrate the needs of BMC sub-

committeeintocomprehensiveplanthroughanalysisofcurrentconditions, social assessment and interaction with the members, and with reference to the prescriptions of the Working Planof the Forest Division. Micro Plan will not only focus on forestry activities and it should be comprehensive so astoincludealldevelopmentactivitiesthatmaybetakenupbyotherGovernmentDepartments and Agencies through convergence. During the preparation of micro plan theBMCsubcommitteeshall interact with officials of other departments and after preparationof Micro it should shared with other Plan, be Government **Departments** and Agencies for dove tailing their activities in 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) andshallbeaggregatedbyFTUfor each range.

Under the Micro Plan composed by FEMP and CD&LIP, broad action plan is to be prepared for 5 years based on the 10 year's 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 4th year, a broad action plan shall be prepared for the fourth coming 5 years. The process of the 2⁻⁵ year action plan shall follow thesamestepasdiscussed inthe above section.

A copy of Micro Plan, when prepared, shall be shared with the Gram Panchayat, BlockDevelopment Office (BDO) and other Line Departments for dovetailing their activities inBMCsub-committee.

Although Micro Plan shall be prepared for a period of 5-7 years it would be revisited onannualbasis.

$2_{\underline{Basic Information}}$

2.1 BasicInformationsheetonMicroplan

Name of the BMCSub-Committee	Langcha
Name of the Ward	Langcha
RegistrationNo.	HPCD-5201
Name of Gram Panchayat/BMC	Langcha
Name of the FTU/ Range	Kaza
Name of the DMU/Forest Division	Kaza
Name of the District	Lahaul&Spiti
PeriodofMicroPlan	2022-23 to -2027-28
DateofapprovalofMicroPlanby ExecutiveCommitteeofBMCSub- Committee	(BMC Sub-Committee resolution forapproval of Micro Planattached)
Date of approval of MicroPlan by Headof DMU	21/11/2022
Key team members engaged in Preparation of Micro Plan	Dr Pawan Kumar AttriMr.AmanKumar Ms.DikshaKumari Mis.Meenakshi Ms. Chhodon zangmo
Date of Genera house conducted	16/11/2022
& resolution passed	
Number of participants	Male:06 Female:05 Total:11
Voting Pattern followed for	
formation of BMC Sub-Committee	Nominated:02 Elected:01
EC	
Number of members in EC	Male: 6Female:5 Total:11

2.2 General Profile of BMC SubCommittee selected.

S. No	Description	CurrentStatus	
1	Date & Registration No. of BMC Sub- Committee	HPCD-5201	
2.	No.of Revenue Villages/Ward/Forest Villagescovered	Ward-(Revenue Village Langcha)	
3.	Totalnumberofhouseholds(HHs)inWard	32	
4.	TotalNoof householdrepresentingBMC Sub-CommitteeGeneral House	10	
5.	TotalPopulationinLangchaWard	158	
6.	TotalGeneral CategoriesHHsinWard Langcha	Nil	
6	TotalOBC HHsinWardLangcha	Nill	
7	TotalIRDP/BPLHHs	11 HHs	
8	TotalLivestockinLangchaWard	349	
9	Bankaccountdetails	SavingAccount	
10	NameoftheBank	SBI KAZA	
11	Date ofaccount opened	18/06/200	
12	Accountnumber/IFSC	A/N 40930721562 IFSC CODE SBIN0003337	

2.3 DetailsofECMembers ofBMCSub-Committee

S.No	Name	M/Fe	Designation	Category	Village
1	Phunchuk Angdui	Μ	President	ST	Langcha
2	AngchukTakpa	М	Vice- President	ST	Langcha
3	ChheringDolma	F	Secretary	ST	Langcha
4	ChheringButih	Μ	Member	ST	Langcha
5	DorjeAngchuk	Μ	Joint Secretary	ST	Langcha
6	RinchenChhering	F	Member	ST	Langcha
7	RingchenDolma	F	Member	ST	Langcha
8	ChheringDikit	F	Member	ST	Langcha
9	ChheringButih	Μ	Member	ST	Langcha
10	SureshKumar	Μ	Cashier	ST	Langcha
11	SuryaBhagat	F	Member	ST	Langcha

3<u>MicroPlanningProcess</u>

Beforestartingthemicro-planningprocess FTU-TeamConductedtheGramPanchyatAwareness Meeting in Langcha village, in this Meeting Panchayat representative, othervillagers of Panchayat area participated.FTU team discussed about Jica Project and itsobjective with Participants in detail. After this meeting, FTU Team conducted the wardlevel awareness meeting in Langcha ward with the help of Ward members and othersources. Then resident of Langchaward agreed for JICA project implementation.

Sub-committee level Micro Plan consists of Community Based Management Plan (CBMP) and Community Development & Livelihood Improvement Plan (CD&LIP). For activities tobe implemented through line department/agencies detail of Convergence activities alsoadded to the Micro Plan. The detailed process followed in preparation of micro planfocuses on information collection primary, secondary sources, ward level meetings

andothermeetingsheldwithprimaryandsecondarystakeholders. Theinformationalsocollected from different sections of the community using Participatory Rural Appraisal (PRA) and RRA techniques. During PRA focus group discussions (FGD) with the specificgroups i.e. vulnerable families OBC/Women was held. The information collected wastriangulatedwithdifferent groups and finalized ina plenarysession.

TheinformationcollectedwasanalysedjointlywiththeactivemembersofSub-Committee and other community participants. A meeting was conducted to share theprimary information collected. The changes were incorporated based on the participants' consensus.

The participants were divided into different sub-groups such as farmers, women, youth, poor, labour, etc. to identify their problems, perceived needs and priorities. The sub-groupssuggested the possible solutions to deal with their needs & priorities which emerged during the group exercises. A detailed set of perceived problems and solutions was developed jointly by micro planning team of the project and the Sub-committee members. During PRA exercise women and men were given maximum opportunities to bring forward forest related and livelihood related issues.

The perceived problems, solutions and information collected through primary and second ary sour ceswered is cussed with General house of Sub-Committee. Are fined set of

problems and solutions emerged to take it forward for inputs from the technical staff andthe experts to finalize the Micro Plan especially the CBMP. Executive Committee of wardwas also formed in the General house according to the HP Forestry Project guidelines. ForForestryinterventionsUserGroupwerealsoformed.

Technical staff of HPFD and Community focused on quantification and decided a tentativetarget for different interventions and prepared cost estimates based on the Project

normsandlocallyprevailingrates. Themicroplanisfinalized inconsultation with Field Technical Unit (FTU), Divisional Management Unit (DMU) and Executive Committee of Sub-Committee and inputs from other experts.

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

S.	SequentialStepsFollowedAdditioncanbemade	date
N	asperlocallyfollowedprocess	
	Communityawarenessbuildingmeetings/workshops	10.10.2021
	organizedat GP &ward Level	
	GPConsenttoworkwithprojectand	
	BMCSub-Committeeformed/Executivecommittee	
	Constituted/sub-committee Registered.	
	ActionplanpreparedwithSub-CommitteeforMicro	
	PlanPreparation	
	Micro planning process started /PRA exercise	
	conducted(From-To)	
	Participatory informationanalysiscarriedout(From-	
	То)	
	Negotiation/planningprocessheld (From- To)	
	Participants involved in negotiation/planning	55-60(morethan50%
	process(Male&Female)	werefemale)
	Presentation of the draft plan in village/ward	
	assemblyforapproval	

Documentingthemicro plan(From-To)	
MOUsignedbetweenDMUandECofSub-Committee	Little far from JICA
for undertakingmicroplanningand implementation	office not everyone was
Problems/challengesexperienced	showing interest.

Socio-EconomicStatusof Langcha

4.1 GeneralDescriptionof theBMCSub-Committee

4.1.1 History of Areaselected:-

Langcha/Langcha Village is located in the Spiti Valley of Himachal Pradesh. Langcha Villageis located in Spiti District of Himachal Pradesh at a distance of 16 kilometers from Kazaand215 kilometers from Manali. Thealtitudeof thevillageis 4420 meters (14500 ft.), and is divided into two sections, namely Langcha Yongma (lower) and Langza Gongma(upper). The name of the village is believed to have derived from the words 'La' which means a mountain pass and 'Za' which is short for Zama, a form of clay pottery practiced in the village. Another theory states that the name comes from the word 'Lang' - thevillage temple. This place is very rich in fossils of marine animals and plants that werefound here millions of years ago. Langcha and many other villages of Spiti were submergedunder the ancient geological Tethys Ocean, more than 200 million years ago. It inhabitedmany varieties of Mesozoic marine animals. It is difficult to imagine that this land couldhave been a huge ocean. Around 50 million years ago, the Himalayan range and $the {\tt Tibetan Plateau} emerged from the collision between the tecton icplates of two supercontinent$ s(LaurasiaandGondwana), which made the Tethysoce and is appear. Fossils of marine animal slivin gunderTethysSeaarefoundtodayinLangzaandneighboringvillages.ThevillageofLangchaiscom monlyreferredtoasthe"FossilVillage". In winters, Langcha weather is cold and dry. Winter months are extremely harsh, with the Langcha temperature dropping as lowas -20 degrees. 4.1.2 LocationofBMC Sub-CommitteeArea: -

Langcha Sub-Committee falls under Langcha BMC/Gram Panchayat in Spiti block of Lahul& Spiti District. The selected BMC Sub-Committee area falls under Kibber beat of WLKibberRangeinWLKazaforestDivisionManagementUnit(DMU).LangchaSub-Committee Situated near Kibber Wild Life Sanctuary and Sub-Committee Langcha fallsnearKibberBeat ofTerritorial RangeofKaza.Location Mapis attachedon **PageNo. 3**

Boundary:-The boundaryofselectedBMCSub-Committeeareaisasunder:-

<u>4.</u>

East = komic VillageWest= Kaza North = Hikkim VillageSouth =Forest land

DistancefromForestand otheroffices:-

Langcha BMC Sub-Committee area is located at a distance of 16 km from WL Range office; Revenueblockoffice, DMUoffice and the 200km district headquarterkeylong.

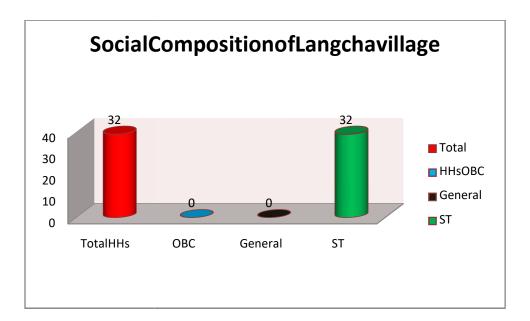
ImportantfeaturesofBMC Sub-Committee:-

Langchaishighaltitudevillageisknownforancientmarinefossils,forspottingendangered animals, and for the gigantic Buddha statue overlooking the Spiti Valley.Tourist comes from all over India to visit this famous site during summer season to enjoythescenicbeauty and climate.

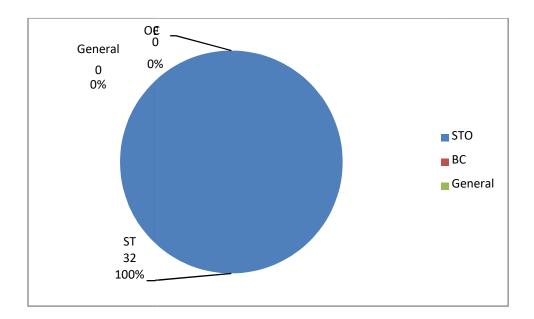
4.2. Social composition

Households(HHs)	ST	SC	General	Total
No ofHHs	30	2	0	32
% of HHs	100	0	0	100%

InLangchaSub-Committee32HHsbelongtoSTcategory, noneofbelongtoOBC andGen. Category.



> 100%HHs are belong toST category.



4.3 Population

	Population(Number)					
Socialca tegory	Male Adults	Female Adults	Total Adults	Male Childre n	Female Childre n	TotalC hildren

OBC	00	00	00	00	00	00
ST	75	69	144	11	14	25
SC	8	6	14			
Total	82	76	158			

Total population of Langcha Sub-Committee is 158. Out of these 82 are male and 76 arefemale. Out of total population 14 are belong to SCT category, remaining of which belongtoSTcategory.

4.4 EducationalStatus

4.4.1 EducationalStatus(Adults)

Level	Number					
	Male	Female	Total			
Illiterates	24	31	55			
Percentage(Illiterates)	15.18%	19.62%	34.81%			
Primaryeducation	0	0	0			
Middleeducation (10 th)	10	15	25			
HigherSecondary(12 th)	43	25	68			
Graduates and above	5	5	10			
Professional courses	0	0	0			
Totalliterates	58	45	103			
Percentage(literates)	36.70%	28.48 %	65.18 %			

65% people are literate. Out of these 36% males are educated while 28% females areeducated. Whereas 34 % population is illiterate out of which 15% male and 19% femaleare iiliterates.15% are middle level educated, 43% are higher secondary level and only 6% are graduates and above.

4.5 EconomicCategories

4.5.1 WealthrankingasperPRAexercise

Category Criteria/Indicator	No of	Category code**	CategoryWise
-----------------------------	----------	--------------------	--------------

		HHs				
				Gen	ST	SC
Better off	GovtJob,agriculture, Homestays.	15	В	00	14	1
Manageable	Agriculture, home stays	6	В	00	5	1
Poor(BPL)	SmallFarmers, Labour	11	C	00	11	
Total		32		00	30	2

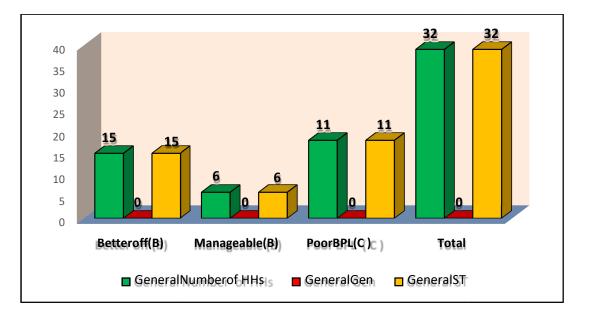
VulnerableHHsarethosefina whichdolabourwork, and are supported by relatives ncially.

Poorcategory is of smallfarmers who have less landand also do labour work.

Manageablecategoryincludespeopleinvolvedinagriculturehaving06Bigh landbetween03to ado exclusiveagriculture

BetteroffdoGovt.jobs,andarehavingagriculturelandmorethan6-11bighaandsomeshortof joblikepart time worker, work chargeetc.

InBMCSub-committeepeoplebelongtoBcategory66%, and poor (BPL) with smallholding doing labour work for other peoples are 34%.



4.5.2 HHsAbove andBelowPoverty Line(As per Government Criteria)

Households	Total	APL	BPL
Noof HHs	32	21	11
%ofHHs	100%	66%	34%

During livelihood analysis B category HHs showed 50 % dependence on Agriculture, 50% ongovtjob work for their livelihoods.

Whereas category B (Manageable) HHs showed 60% dependence on Agriculture and Animalhusbandry and Labour 40% deficiency in meeting their livelihood requirement.

There is no categoryA classfound in thisarea

4.6 AccesstoBasicFacilities/Services

Facilities/S	Availability	Distance	Current status
ervices	(%HHs)	(Km)	
Toilets	100%	-	Every household have their personel local dry toilet.
Toiletswith	_	-	Very few
flushwater			
LPG	100%	16Km.	kaza
Improvedst			Available.
ove/Tand oor	100%	-	
Electricity	100%		Available.
Drinking water	100%	05-1Km	Available.
Healths		16	CHC KAZA
ervices	100%	КМ	
		HQ	
Veterinary	100%	16KM.	Veterinary ServiceisAvailableinKaza.
L	1	1	26

services								
Banks	100%	16KM.	villagers go to Kaza for avail Bank Services					
Markets	100%	16KM.	VillagersgotoKaza, FEW small item shops are available.					
Anganwadi	100%	100to 1000 Mtr.	Aganwariavailableinvillagewithgoodservic e					
Primary schools	100%	100 to 1000 Mtr.	PrimarySchoolavailablewithin the villagewithgood Service					
Secondary schools	100%	16Km	Sr.Secondary School availableinKaza.					
PDS	100%	0.5-02 KM.	PDSavailablewithinLangchaVillage with betterService					
Transport	100%	03-04 KM.	Govt.BusserviceandPvtservice(Taxi) availableinLangchaVillage					
Telecommu nication	100%	10km	AllHHhaveMobilePhoneswithpoor networks					

5. ResourceAnalysis

5.1 LandResources

5.1.1 LandUsePattern

Landuse	Total land	Landund ercultiva tion	Forest land/a rea	Comm unity /Panc hayatl and	Wast eland area	Areau nder Non- agricultur e use
Area(ha)	421.8	27.53	0	372.0 7	13.1 4	9.06
% Area (ha)	100%	6.52	0	88.21	3.11	2.14

5.1.2. Land OwnershipPattern

LandO wnership	Privat eland	Community / Panchayatla nd	Forest land	Waste Land	Total
Area(ha)	27.25	372.07	13.14	9.06	421.8
% Area (ha)	6.52	88.21	3.11	2.14	100%

5.2 <u>Forest</u>

Resources5.2.1

<u>Forest Area</u>

5.2.1.1 SiteSelection andLocation

 $This site has been shortlisted by the {\sf DMU} and his field staff. Bio-$

 $diversity {\tt Management} Committee {\tt Langchahad} for med by {\tt Himachal Pradesh} State {\tt Biodiversity} {\tt Boar} dunder$

Biodiversity act 2002. As per guidelines of JICA, three sub-committees had to be formedunderBMC. The selected BMC/GramPanchayat Langchahas threewards.

The Sub-Committee Langcha area falls under Forests falling under One Forest beat ofLangcharange.ThesiteSub-CommitteeLangchaissituatednearkibberWildlifeSanctuary.

The site is approximate 16 Kms from WL Range office Kaza. Location *Map isattachedPage No. 03*

5.2.1.2 DatafromWildlifeForestDivisionforCommunityBasedBio-DiversityManagement Plan (CBMP)

KibberWildlifeSanctuary

Notified on 1.11.1999 comprising area of 1400.00 sq km. And on dated 28 July 2010 itincludes an area of 867 sq. Km to the existing 1400 sq km whereas 46.88 sq km area of excluded alongwith village Kibbrifrom existing 1400 sq km of Kibber wildlife Sanctuary .The total area of 2220.12 sq km shall now constitute the Kibber Wildlife Sanctuary afterrationalization. The sanctuary has three beats Kibber, Langcha and lalung. The area of kibberbeat is1124.50sqkm.

Beinga highaltitude sanctuary KWS is home to a variety of rare animalslike Ibex, bluesheep, red fox, Tibetanwolly hare, Himalayan Wolf Lynx, Pika elusivesnow leopard.Birds that are found here include the Himalayan snow cock, Himalayan billed chough, thebearded eagle and griffons, and the sanctuary also offers a great view of the regions'speakChau-chauKhanamo &Chau-chau Khang Nilda.

Despitebeing a high altitude cold desert, spiti boasts of more than 450 species of medicinal and aromatic plants. These include Seabuck thorn, Hatagirea, Aconitum, Ratanjot,

Ephedra, Artemisia and other condiments. The alpine pasture on the highplateaus is home to a verity of small bushes and grasses includes Rosa sericea, Hipopheaeand Lonicera among others. Threatened plants species are *Arnebia euchroma*, *Berginiastracheyi*, *Physochlaenapraealta*, *Rhodiolaheterodonta*.

This areais situated within theGeo-coordinates. North Latitude 32° 45'42" N andLongitude 78° 22' 16" E Latitude 32° 25' 00" N and Longitude 78° 32'33" ESouth latitude32° 08' 27" and longitude 78° 20'35" EWest latitude 32° 35' 38" N and Longitude 78° 47'37" E. This area falls onsurvey of Indiatopo sheet No. 52 L & 52 H of scale 1" 4 miles. Are of Wildlife Sanctuary is 2220.12 sq.km. North boundary of the Sanctuary starts from apointonLunghernallafollowsdownstreamuptoitsconfluencewithMaungnallathena

crossing malung nalla boundary meets interstate boundary of Himachal Praesh and Jammu& Kashmir state where it forms V shaped and then moves around the same interstateboundary of Himachal Pradesh and Jammu & Kashmir upto turning point near Nurbula.East: From turning point interstate the again moves along the interstate boundary of Himachal Pradesh and Jammu & Kashmir upto the point where that boundary ends andmeet with International boundary i.e. Gya Peak which is highest peak height 22290 feetsthen moves along international boundary of India and Tibet up to top of Lingti River thenagain moves along international boundary upto the point where it forms again V shape.South: South boundary start from V shape on the International boundary and moves alonga ridge entering into Spiti Wildlife Division separating the water shed of Lingti river in thenorth and watershed of Spiti river in the south uptothe top of Kibbri nalla. West: westboundary starts from top of Kibbri nalla and then follows a ridge between Kibbri nalla andShiji Bhang nalla upto its confluence with Lingti river downstream upto village Sanglungand then across Lingti river boundary goes to Khukhe nalla leaving aside Sanglungvillageand then follows a small ridge up to the top of the nalla near Langcha village intheopposite side the follows the same nalla down stream upto its confluence with Shila nallaand then a crossing Shila nalla boundaryfollows a small nalla in oppositeto side upto itstop height Dhunbhschen 16900 feet and then followsa small nalla in the oppositesideand moves along the same nalladown stream upto its confluence with Puri Lungbhi andthenfollowsPuri Lungbhi up stream uptoits top Prangla height 18300 feetthenboundarymoves along ridge separating the water shed of talking river , Tanmu riverand Kibji river in the south and Lungherriver and Malung river in he North and meet inLunghernallaatstarting pointof Northern boundary.

5.2.1.3 Descriptionoftheforests(Sanctuaryarea)

TheentireSpitiregionisclassifiedunderthe'Trans-HimalayanColdDesert'biogeographic zone . The vegetation in Spiti is classed as 'Alpine scrub' or 'dry alpinesteppe' vegetation. Such areas are characterised by scattered and open bush-landmainly 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 foundin the area, but by and large their biomass seems to be depleted(Mishra 2001). Today, the two important formations include vegetation in the region open or desertsteppedominatedbygrassesandsedges(e.g.Stipaspp.,Leymusspp.,Festucaspp.,

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 glaciersareoftencoveredbysedgemeadows(*Carexspp.*,*Kobresiaspp.*).Vegetationoccursup to 5,200 m, but becomes sparse above 4,800 m, and is limited to forbs such asSaussurea spp. and cushionoid plants such as Thylacospermum spp.. The importantplantfamiliesincludeGraminae,Cyperaceae,Brassicaceae,Fabaceae,Ranuncula ceae, and Leguminoceae. The Villagers from Langchaand Komicand Langcha Subin this Committee have their rights Forest area .The Villagers of these areas dependent his Forestare a for Fodder, Fuelwood and Timber. The requirement Of Fodder and Fuel wood of Villagers does not fulfill from this Forest areasotheyalsogo toSanctuary areaforfulfilltheirrequirements.

Geology, Rock and Soil:

Most of the area is rich in fossils, mainly brachipods, trilobites, ammonites, bivalves andalso certaincorals andalgae, indicating its Tethyan past. Thehigh altitude desertsoilsare predominantly sandy and shallow, derived mainly by disintegration due to markeddiurnal and seasonal fluctuations of temperature. The area is characterized by sharpchangesinrock with combination of quartzite, shales, limestones and conglomerates.

Terrain:

All of Spiti occurs above anelevation of3,000 m.Thelowest point is where the riverflows into the Kinnaur district near Hurling. The slopes on the right bank of Spiti are morerugged and have longer streams, while the left bank is less rugged. In fact there is a40km plateau from Kibber to Demul on the left bank, which also extends into much of themid Lingti valley, covering over 500km².There is Shilla peak (6,132m) which is one of thepopularclimbingdestinations.

Climate:

Spiti occurs on the leeward side of the Pir Panjal branch of the Himalaya that cut of theMonsoonaleffectfromtheplainsrenderingtheareadryandcold.Westerlydisturbancesinthe winterbringsomeprecipitationintheformofsnow.Thetemperaturescanrangefrom-40inpeakwinter,to30degreeCelsiusinpeaksummer,withtheminimumtemperatureremainings ubzerofromSeptembertoAprilinmostplaces.Severewinds occur almost every day and are further reason for the desiccated atmosphere and lack oftrees.

Precipitation, Temperature, Wind Speedand Humidity:

Recent local reports and metrological data suggest a marked change in weather patternsin Spiti such as an increase in summer precipitation and a decline in winter snows. Wintersnows are important for both providing irrigation water through snowmelt streams insummer as well as soil moisture for rangelands during the crucial spring and early summerperiod.Latesummerrainsin (July-August)areseenas threats tostandingcrop.

Watersources:

The Sanctuary area is well drained; the Sanctuary falls under water shed of Lingti River inthe north and watershed of Spiti River in the south upto the top of Kibbri nalla. Thereare numerous seasonal nala are Lungher nalla, Maung nalla, Kibbri nalla, Kibbri nalla andShiji Bhang nalla, Shila nalla. These streams and nalas are uniformaly distributed over thesanctuarywholeareaarewelldrainedanditfallsincatchmentofoftalkingriver ,Tanmuriverand Kibjiriver inthe southandLungherriver andMalungriver intheNorth.

Rangeofwildlife, statusdistribution and habitat:

Te mammalian diversity of Spiti is not exceptionally large, but range-restricted speciesoccurhere. Teprimary large mammals reported from the landscape are the snowle opard, Asiatic ibex, bharal or blue sheep, Tibetan wolf and red fox.All of which arenationally threatened, and are also internationally threatened. based many on existingliterature, prominently represented inthe avifaunal composition are Considering the good representation of high altitude habitats and their potential to hold good populations of representative avifauna, Kibber WLSSnow Partridge (Lerwa lerwa), Hume's Short-toedLark (Calandrella acutirostris), Rosy Pipit (Anthus roseatus), Robin Accentor (Prunellarubeculoides), Brown Accentor (Prunella fulvescens)White-winged Redstart(Phoenicuruserythrogaster), Himalayan Grifon (Gyps (Tetraogallushimalayensis), SnowPigeon(Columba himalavensis).Himalavan Snowcock leuconota) etc.

TheBiogeographic classification

The entire Spiti region is classified under the '**Trans-Himalayan Cold Desert**' (Zone 1)biogeographiczonewiththeProvince'Ladakhmountains'(1B)coveringmostofthe

southern bank and the 'Tibetan plateau' (1A) covering the northern bank as per the WildlifeInstitute ofIndia's biogeographicclassification.

AlpinePastures:

The vegetation in Spiti is classed as 'Alpine scrub' or 'dry alpine steppe' vegetation. Suchare as a recharacterised by scattered and open bush-

landmainly with her baceous and shrubspecies such as Artemisia spp., Loniceraspp. and Caragana spp.ThegraminoidssuchasFestucaspp.,Poaspp.andStipaspp.arefoundinthearea,butbyand large their biomass seems to be depleted. Today, the two important vegetation formations in the region include open or desert steppe dominated by grasses and sedges(e.g. Stipa spp., Leymus spp., Festuca spp., Carex spp.) at altitudes up to 4,600 m, anddwarf shrub steppes between 4,000 and 5,000 m dominated by shrubs such as Caraganaspp., Artemisia spp., Lonifcera spp. and Eurotia spp. Mesic sites such as river vallevs

andareasalongspringsandglaciersareoftencoveredbysedgemeadows(*Carexspp.,Kobresia spp.*). Vegetation occurs up to 5,200 m, but becomes sparse above 4,800 m, andis limited to forbs such as *Saussurea spp.* and cushionoid plants such as *Thylacospermumspp*. TheimportantplantfamiliesincludeGraminae, Cyperaceae, Brassicacea e, Fabaceae, Ranunculaceae, and Leguminoceae.

ThepasturesarefoundabovethetreelineuptolimitsofPA.Avarietyofmedicinalherbs are found in these pastures. Food, water and shelter are the primary requirementsof any living being. Sufficient quantity of food and water both for animals and birds isavailable in the sanctuary. Some parts of the sanctuary are disturbed due to grazing ofdomestic 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 theseareas. 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 besaid about quality of food availability. Even sufficient food present may not be availablefor the wildlife species due to various factors that attract or repel wild life. Disturbancebecomes alimiting factor.

Availableboastsofmorethan450speciesofmedicinalandaromaticplants.TheseincludeSeabuckthorn,Hatagirea,Aconitum,Ratanjot,Ephedra,Artemisiaemisiaandothercondiments. The alpine pasture on the high plateaus is home to a varietyofsmall

bushesandgressesincludes Rosasericea, Hipopheae and Lonicera amongothers. Threatened

plantsspeciesare Arnebiaeuchroma, Berginias tracheyi, Physochlaena praealta, Rhodiolah eter odonta.

Achecklistoftrees, herbs and shrubs found in the PAisgiven as Annexure-XVII.

Animals

Vertebrates, their status, distribution and habitats. Habitat quality, quantity and keyareas

The mammalian diversity of Spiti is not exceptionally large, but range-restricted speciesoccurhere. The primary large mammals reported from the landscape are thesnowleopard, Asiatic ibex, bharal or blue sheep, Tibetan wolf and red fox, all of which

arenationallythreatened, and manyarealso internationally threatened Among the herbivores, ibex occupies much of the right bank and bharal, the left bank of Spiti River. Ibex also occurs on the left bank from the Lossar till near Kioto for potential distribution. Bharal extend into the Pare Chu valley also. During the field survey over 200 blue sheepwere sighted along with road extended to dumel village over 300 blue sheep in the Lingtivalley and about 25 in the Pare-Chu catchments. Ibex is mainly distributed in the narrowvalleys of the tributaries of the Spiti River along its right bank. Although snow leopardoccurs throughout the upper Spiti valley their signs were more frequent in the Lingti rivercatchments and the gorges formed by the Ula, Ratang and Guindi nala. Other animalsareAsiaticibex, BharalorBluesheep, Tibetanwolf, Redfox, Himalayanweaseletc

It is important to analyze the resources available in the sanctuary in terms ofhabitat, which ultimately control and regulate the wildlife. Habitat can be analyzed interms ofspace, food, cover, presenceof other animals and climaticfactors. Spacemultidimensional factor is a primary prerequisite for wildlife. The length and width givesthe quantity of area available, thickness indicative of number of layers available fordifferent species. The quality and quantity of each of these dimensions gives the idea ofnourishmentof wild animals, which is in abundance in this PA.

5.2.1.4 SelectionofInterventionareas, planning and treatment:-

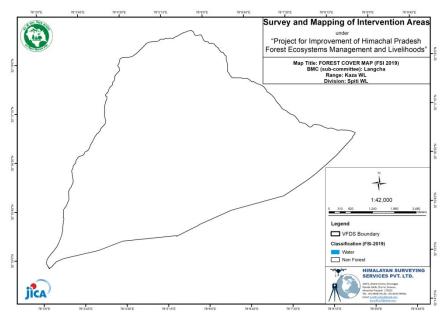
Theentireward has been selectedas site by DMU Kaza and his field stafffollowingprojectguidelineswhichincludedforestbeinginastateofdegradationto various

degrees, deficient to meet with the demand and supply chain to the local right holdersaroundtheforest.

ThePotential intervention areas /treatment plots have been identified during Microplanning exercises by technical staff (Fgd, Block Officer andRange officer/ACF Kaza.)The activities to be carried out stands discussed with villagers in detail during PRAexercises. The selected plots, community land /patches are either open areas or areblank, which would be planted with multipurpose species varying from 500-1000 perhectare.

5.2.1.5 Mapof potentialSites Selected (FOREST)

Social Map, Resource Map, Potential/intervention area Map, proposed intervention Mapsare attached as Annexure-III, V, VI, the Google earth pro map of Sub-Committee area isannexed as Annex-III. Technical maps would be prepared by Technical team to behired by JICA Forestry Project. (Land use map, Forest cover map/ Forest Densitymap,GP andWard boundarymaps,Treatment area map)



5.2.1.6 Dataandmapsongrazing, otherrisks Liv

estock grazing

Livestock	HH	Average	Total
Cows	32	7	215
yak	32	1	49
Goats/Sheep	32	2	55

Horse/Mule	32	1	30
total	32	11	349

As many as 215 Desi cows 55 sheep/goats , 49 yak and 30 mule/horse are reported in thisvillage. The local right holders had been allowed to graze their cattle, sheep and goats in the past as per their rights recorded in the Settlement Report. Grazing cause problems towildlifesuchas:

Competition for

food.Disturbance.

Transmission of

diseasesSoil Erosion.

 $\label{eq:linear} Increase in the quantity of unpalatable grasses and we eds.$

Illegal grazing is occasionally a problem in the area as stray cattle from in and around theprotected 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.

No grazing permits are issued for grazing of cattle in the area. Generally, the people ofthe villages situated outside the sanctuary send their redundant cattle to the forests atnightespeciallyduringrainyseason. The villagers also take their livestock to high altitude pastures for grazing during summer season. They remain unattended and forest staff is

forced to remove them out of the sanctuary and some cattle also become prey tothewild animals.

Wildfires

Areafallsin-

alpinezone.Therearenotrees.longwinterareacoveredwithsnowandglacier.So,noincidence of fire inthisarea

HumanWildlifeConflict

Human -Wildlife conflicts often hamper the well -being of people and information on theissue was facilitated during the PRA exercise. Information about wild animal causingdamage to crop and livestock in the project site was gathered and is given inTable:1.13(there were 19 cases of livestock predation by snow leopards or wolves in 2015, and 28cases of livestock predation in 2016 in upper spiti area , Source :Snow leopard Trust,NatureConservation Foundation, Mysore).

5.2.1.7 HumanWildlifeConflict:TypeandExtentofDamage

Listofwildanimals	Typesof Damage	Extentof Damage
Snowleopard	Cattle/Sheep/pets	Low

Prescriptions:

- Most threats are only partially understood, and there is a need to understand them inthe general and specific area's context to be able to tackle them fully. Also, there is aneed to monitor the indices of the threats as these can change spatiotemporally.Credibleresearchorganizationsarethebesttoleadtheseeffortsaspertheirspeci alization with significant contributions from the Forest Department and localorganizations. These studies should be encouraged right from the onset of the planimplementationand willcontinuetillitscompletion.
- Build localcapacityandstructuresforcarryingoutconservationeffortsbylocalcommunities. Village Wildlife Conservation Committees (VWCC), will be set up inappropriate villages or village clusters that will have representation of local gramsabha, youth, women, Gompa (monasteries), NGOs. CBOs. Forest Department, etc. This group will be trained in participatory planning and action, accounting and monitoring wildlife through training workshops and programs. Particular emphasis willbe given on local Buddhist involving and getting inputs from the religious institutionsthatalreadypromote protectionofallsentientbeings.
- Research Organizations should be involved in developing modules along with capableindividualsororganizations, and providing resource personstoconduct capacity enha ncement workshops each year. This will help establish a strong group of youth, villagers and departmental people capable of implementing conservation and monitori ng initiatives.
- Carry out conservation awareness programmes for important stakeholders, especiallylocal school children, teachers, youthand general public.In addition,awarenessprogrammesforthelocaladministration,panchayats,politiciansandar medforceswill also be developed and implemented. These programs will primarily target anappreciationandunderstandingoflocal wildlife,threats,and theirmitigation.

- Thelocalpeopleshouldbemadeawareaboutvariousdepartmentalwelfareprogrammes, esp ecially about the procedure to file compensation claim.
- A rapid response team consisting of trained officials along with equipment's should bestationed either at Range or Division HQ stode al with any exigencies.
- Provide economic opportunities wherever possible to reduce people's dependence onlocal resources. Threats such as excessive livestock grazing pressures, extraction andconflict resolution can be addressed through incentive based programmes where thelocalcommunities areable toget direct access to conservation funds or toprogrammes that help them economically, or that save their personal resources.
- Set up incentive programmes and self-help groups to reduce the threats by localpeopleandotherusersofnatural resources.
- Fodder tree plantations shall be developed on the periphery of the villages and stallfeeding maybepromoted.

5.2.1.8 Dataandmaponintervention Areas/Treatmentplots

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 andProject guidelines. The forests have been visited by team again and again and as per thesiteconditionstreatmentplotshavebeenprescribed. Thenallatreatment, soil conservation works are applicable in this Sub Committee area. Local ghazis are quite wellmaintained one plot with patch sowing has also been prescribed. Fencing part has beencriticallyanalysedkeeping inview local conditions as well as biotic pressure and according lyp rescribed. Total 6 Haccommunity land have been identified.

Plotwise detailsofSub-Committee

S. No	Plot name	Plot No	Area	Latitude longitude	PFM mode	FDmode
1	Langchaward	1	6ha	32.273027N 78.079783E	Yes	

5.2.2 TrendinCommunityDependency onForests(as perPRAexercises)

Major	Past	CurrentAvailability&Access
	Trigonella emodi,	Aconogonum,Trigonellaemodi,Cic
speciesavaila	Cicerarietinum, Festuca	erarietinum, Festucarubra,
ble	rubra,Geranium, Cousinia	
	thomsonii	
Major	Aconitum,	Arnebia
NTFPs	Arnebiaeuchroma,Codon	euchroma,Hippophaetibetana,D
available	opsisclematidea,	actylorhizahatagirea
	Gentiana,Pedicularis,Da	
	ctylorhiza	
	hatagirea	
Fodderavai	Trigonella emodi,	Trigonella emodi,
lability	Cicerarietinum,Festucaru	Cicerarietinum,
	bra,	Festuca rubra,
	Geranium	Geranium
	Nil ,small broken trees can be used as fuel wood.	Nill,small broken trees can be
	be used us juet wood.	used asfuel wood
Timberavai	nill	nill
lability		
Accesstoopen	Easy access	Onlysheep &Goat
grazing		
Accesstofuel	Fuel wood not available	Fuel wood not available
wood		
Access	Easy access	Easy access
to		
fodder		

Access	to	No timber available	No timber available

timber		
AccesstoNTFP	Easy access	Forestlandbeingnearer,butonlyso mepeopleoramchicollectfortheir personaluses .nocommercializationofNTFP

5.2.3 HouseholdsDependingonForest(asper PRAexercises)

Category	% HHsdepending on forest				
	NTFP	Fuelwood	Fodder	Grass	Other
Primary forest users	20%	1.02 %	70%	50%	-
Secondary forest users	10%	1.02 %	15%	10%	-

Primaryforestusersforfuelwoodare100%, forfodder70% and forgrass collection 50%. Secondary for estusers for fuelwood are 30%. People from adjoining villages also visit this for estarea.

5.2.4 Forestresources of these lected area (as per PRA exercises)

S. No	Species	Main uses	RelativeAv ailability(%)	plant (sca	dvalueof Ile of 1- inglowest) Women
1	Trigonella emodi	Fodder	8	6	8
2	Cicer arietinum	Fodder	6	6	6
3	Festuca rubra	Fodder	3	5	7

5	Arnebia euchroma	Medicinal	50	10	10
6	Gentiana	Medicinal	9	9	9
7	Caragana brevifolia	fodder	27	10	10
8	Lonicera spinosa	fooder	37	10	10
9	Salix alba	Fodder and very rare in fuel.	18	10	10
10	Hippophae tibetana	Fodder.	11	8	8

Relativeabundanceof*Arnebiaeuchroma*ishigh, it is one of the most favoured species. Whereas *relativeabundanceofLonoicerasp*. *Caragana sp*. and *Salix* are 37%, 27% and 18% respectively.

5.2.5 Biodiversity

Major Habitat	InitiativeTaken		
Snow Leopard	Developing snow leopard & prey species		
	monitoringprotocols		
	Understandingand managing people-wildlifeconflicts		
	Developingmodelsformaintainingsociallyfencedareasforco		
	nservation		
	• Awarenessprogrammesdirected at school children,		

	teachersand youth Helpinginconservationplanning and implementation
Bharal	PastureDevelopment,BanonHunting,Improvementof wildlife habitat by constructing water pond, waterharvestingstructure,repairofpathbunkers,salt licksetc
lbex	PastureDevelopment,BanonHunting,Improvementof wildlife habitat by constructing water pond, waterharvesting structure,repairofpathbunkers,saltlicksetc.
Bluesheep	PastureDevelopment,BanonHunting

HabitatManagement:

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

Objectives:-

To study the habitat with respect to availability of resources and

constraints. Toassess the suitability of habitat for various kind of wildlife.

Tocarryoutvariousactivities for habitat enrichment with minimum disturbance.

Topropagate the local species of shrubs/fruit bearing plant to ensure of availability of food to the wild life of the area.

Management Prescriptions:-

• Forbettermanagementofthe habitatfollowingactivities needstobecarriedout.

- ImprovementofPastures.
- Maintenanceofwatersources.
- Augmentationof Salt Licks.
- Protectionand maintenanceofPhysicalFeatures.
- Understandingandmanaging people-wildlifeconflicts
- Helping inconservation planningand implementation

ImprovementofPastures:

Under pasture improvement not only the quality of bushes is to be improved but in vast extensive thaches/ pastures, planting ofbushes like *Cragana*, *Goylson*, *Salix sebuckthorn*, *Ribes sp*, *Rosa babiyna*, *Junipis carpus* and other species needs to be carriedout. This along with increasing variety of forage shall also provide shelter to wild life. The local nutritious grasses need to beencouraged. Everyyear10 hectare of areashould betackled under this scheme.

Maintenanceofwatersources:

The ward is deficient in water. To improve the water availability in the sanctuary, it is necessary to construct some waterharvesting structures. These structures should be spread over the entire area. Every year five-six earthen water ponds will beconstructed in the sanctuary. The site of proposed water ponds should be identified carefully after visiting/inspecting the areaby DFO/ACF with clear objectives. The design will be according to the site available on the spot. The cost of each structure willbeas pertheestimateandshallvaryfromsitetosite.

AugmentationofSaltLicks:

Thewildanimalsmostlyungulateslivingintheforestareaarealwaysdevoidofmineralsalts. Tofulfilthisdeficiencytheysearch the place where natural salts oozes out from the rocks. These mineral salts are licked by them. Provision of artificial saltlick affect the behaviour and movement of wild animal and sometimes it also help poachers to locate the presence of theanimals. Therefore, it is necessary to provide due care and protection where artificial salt licks have been provided. It issuggestedthatalltheexistingartificialsaltlicklocationsshouldbemappedandbasedontheinformationdecisiontoprovide

new salt licks should be taken carefully. These salt lick sites should be identified carefully after visiting/inspecting the area byDFO/ACF. During the group patrolling exercises such sites have to be identified andwhich needs to be augmented and supplemented by providing blocks of rock salts in these places. Monolith salt blocks may also be used for this purpose which contains mixture of manymineral salts.

ProtectionandmaintenanceofPhysicalFeatures:

All the physical features like caves, dens, cliffs; dead and dry bushes would be protected and kept as such, as these features areused by wild animals. They are used by many birds, insects and small mammals as resting, nesting, roosting and perchingpurpose.

Understandingandmanagingpeople-wildlifeconflicts

It will focus on the effective conservation models, especially using local support as well as spreading awareness about wildlifeandenvironmental conservation.

Helping in conservation planning and implementation By creating awareness programmes directed at school, children andyouthand alsolocalcapacity, planning and implementation of conservation works.

,	(Mo -	ason/HH /year	in aseason/ year	aseason/ year (Rs)	valuein Rs./kg	Committe eArea - yes/no	roblems	
							Species	ing
								•
							,	nu
	al) time	al) time(Mo - nths) approx.	al) time(Mo - ason/HH nths) approx. /year or or	al) time(Mo - Aseason/HH aseason/ nths) approx. /year year	al) time(Mo - Aseason/HH Aseason/ year nths) approx. /year year (Rs) or	al) time(Mo - Ason/HH Aseason/ year Ason/HH Aseason/ year Aseason/ year Aseason/ year Ass./kg Ass./kg Aseason/ or Ason Aseason/ Ason Aseason/ Aseason/ Ason Aseason/ Aseason/ Ason Aseason/ Ase	al) time(Mo - Asson/HH Assesson/ year Asson/Rs./kg eArea - Rs./kg yes/no or label{eq:asson/limit} or label{eq:asson/limit} or label{eq:asson/limit} eArea - Isson label{eq:asson/limit} eArea - Isson label{eq:asson} or label{eq:asson}	al) time(Mo - /year /year /year /year /year /s./kg eArea - /yes/no /year /year /year /year /year /year /year /yes/no /yes/no /year /yes/no /year /ye

5.2.6 NTFPCollection(as per PRAexercises)

2	Codonopsis sp.(18%),				Wild attack	animals
3	Gentianasp. (9%)				Availabilit reducing	у
4	Dactylorhiza sp. or salaampa nja(5%)				Abundanco Reducing	e
5	Pedicularis(4%)				Abundanco Reducing	9
6	Leontopodiu m (6%)					

• NoCollection of NTFP byprimary users.

• RattanJotJangliPyazusedforself-consumption only.

5.2.7 FuelsCollection/Consumption(asperPRAexercises)

S. No	Type offuelus ed	NoofHHs involved	Unit	AverageHHC onsumption /Year	AnnualCo nsumption /year	Sources	Costinvolv ed, ifany	MajorProblems
1	LPG	32	No.kg	6	192	Govt.	940.00/per cylinder	Carriageofkazato Langcha(16Km.)

2	Fuel wood	37	Cubic	6 months	625kg	Forest	680/-per	Carriageofkaza	to
	Fuel wood	JZ	Kg.	0 11011015	/HH/M	&Pvt.Land	1000kg	Langcha(16Km.)	

5.2.8 Fuels/FuelwoodDeficiency(asperPRAexercises)

Fuelsde ficiency	%HHswithfue Isdeficiency	Duration(Months)	Coping strategies
Low			
Medium			
High	32	Nov- March	Dependupon Forestcorporationfor fuel wood.
			PlantingofFodderplantsinforest&OwnL and, if possible.

- LPG is partially used for cooking only in 32HHs.Further Forest Department provides fuel wood atsubsidized rates(Rs.680/per quintal) to all households upto maximum 1000kg per household. Apart from it villager collect woody plantsfuel wood of different plant species i.e. *Cargana sp, Lonicera sp.Salix sp. Seabuckthornsp.* Constitute over half of thecollections from the pastures for fuel wood . Apart from wood, people also collect considerable quantities of cattle, yakdungforfuel.
- Before winter fuelwood isstoredby each household from govt depo for use duringwinter.
- Averagefuelwoodconsumptionis625KgperHHpermonthperfamilyinwinterseasonfromOcttoMarch.

5.2.9FodderCollection/Consumption (asperPRAexercises)

S.	Type of	fodder	NoofHHs	Unit	AverageHH	Annual	Sourcos	Cost	NajorBrobloms
No	used		involved	Unit	Consumption	Consumption	Sources	involved,	MajorProblems

				/Year	/year		ifany	
	Green Fodder,			8quital		Forest, Pvt.Land	No	Fodderbroughtfromfaroffforests
1	Green Grass,		Kg.	/800kg		Forest, Pvt.Land	No	Qualityfoddernotavailable
	Dry Grass					Forest Dut Land	Na	Reducinglandholdingsduetofamilydivision
	frompasture	32			18quintal	Forest, Pvt.Land	No	Lessveterinaryfacilities
	land							ITKofrearinganimalsnotsuitableforhybrid
	Agricultureresidues			10quital				animals.
2	from		Kg.	/1000kg		Pvt.Land	No	
	Agricultural							
	field							

5.2.10FodderDeficiency(as perPRAexercises)

Fodder deficiency	%HHswithfodder deficiency	Duration (Months)	Coping strategies
Low			
Medium	32	Oct-March	Fodder (tuddi) purchased from market the rate Rs. 600per50kgfromKazamarket.PlantingofFodderplants inforest & OwnLand ,
High	-	-	-

Major Problems with the fodder collection/Consumption is that fodder is brought from residues of their crops such as peas.AfterSeptembersheepandYaksaresenttoopenpasturesforfreegrazingtillthesnowoccurs.Inwinterstheytaketheirdomesticcattleb acktothehouses.Averageanimalholdingis11animal(7cows,1donkey,1yak2goat/sheep).Theytoohavelessveterinaryfacilities. Fodder speciesused areagriculturalresiduesincludebarley,peasaregiven asfodder.

• Peopleprefer Highvaluecashcropsandarenot growingtraditional cropswhichare resultinginlessfodderavailability.

• Green and dried grass is obtained from Pastures in summer. Pastures are closed by the possessor from 15 June to the endofOctober,inOctobergrasscutting is doneandthereafterareaisopenedforallvillagersfor grazinginwinter.

While extraction of species for fodder depending upon the rangeland feature and livestock composition. on an average twentythree species were listed as important for fodder cultivated cultivated cultivated and among these *Trigonella sp. Cicer sp.*, *Aconogonumsp,Festucasp.,Geranium,Cousiniathomsonii,Lindelofiastylosa,Leymussecalinus,Rumex*,ect.Constituted the bulk collec ted from pastures.

5.2.11TimberCollection/ Consumption(asper PRAexercises)

S. No	Typeof Timber use	NoofHH sdeman d /year	Unit	AverageHHc onsumption /Year	AnnualConsu mption /year	Currentsource of collection/ purchase	Costinvol ved,if any	MajorProblems
1	Agricultural equipment, House construction/repair, Furniture	10-12	KG/quintal	700kg /7 quintal	700kg	Timber distribution, purchase from importedwood depots,sale depots		Thereisnoforesttheyh avetopaycarriageforfu elwoodtheypurchasefr omdepot.

5.2.12TimberDeficiency(as per PRAexercises)

Timberdef	%	HHs	with	Duration	Coping strategies
iciency	Tim	berdef		(Months)	
	icie	ncy			

Low			
Medium	100%	Throughout the year	Illegalpurchase, illegal felling, purchase from HPSFCLTD.
High			

Many woody species of plants are used for construction of traditional mud brick houses. The larger boles for the roof are usuallyobtained from outside or local poplar and willow plantations. The multi-layered roof is lined with bushes and other plants, especially along the edges. Many of these serve as protection against erosion and seepage due to water flow and snow melt, butalso serve as emergency fodder and fuel on occasions. Potentilla, Hippophae tibetana etc. In some areas such as *Astragaluscandolleanus, Caragana brevifolia, Lonicera spinosa, Salix, Potentilla sp. and Hyppophae sp.* are also extracted in significantquantities for construction of houses.

5.2.13 ForestManagementPractice(AsPerPRAExercise)

Keyactivities	Traditionalpractices	Current practices
Nurserydevelopment	Naturalregenerationwasassistedbyprotectingtrees.	No nurseryraising practice offorestryspp.
PlantationM	Naturally growing spp. are	Naturally growing spp. are
anagement	protectedSingling if saplings growing	protected.And new plantations made
	naturallyShrubremoval	by locals.

Onlyshrubsandherbsspeciesarepresent.	Conservation practices and scientific collectingmethod knowledge mustbethere
GramDevelopmentcommittee	GramDevelopment committee
Monasterycommitteeactivelyparticipate	Monasterycommittee activelyparticipate.
NA	NA
Encroachment	ReducedduetoFDactions.
	Actionis takenagainstdefaulters
	GramDevelopmentcommittee Monasterycommitteeactivelyparticipate

Sub-CommitteewillbeinvolvedinForestryplantations, soilconservationworks, maintenance, protectionworks.

Trainingformaintainingaccounts and records would be given by project.

5.2.14 ForestProtectionPractices(AsPerPRA Practice)

Forest	Traditional practices	Currenteracticas					
disturbances	Traditionalpractices	Currentpractices					
Forest fire	Noforest fire						
Landslide	Nolandslide						
Flood	Noflood						
Hunting	Hunting/poachingwas prevalentpriortoWLPA1972	Completelybanned/controlled					
Illegal	Hunting	Nosuchactivitynoticed					
activities							
Bio-diversity	Exttoafewamchiorlocalmedicinepractitioner	However the extraction from some area					

conservation	families ineachvillage. This practice is decline in this area with	continuestheseday, muchof which appears to		
	theadventof modernmedicine.	becommercial forservingoutsidemarkets. Arnbiaor		
		rattanjotisthemostimpotentcollection(50%)follow		
		ed by codonopis sp. (18%)Gentiana sp. (9%) and		
		Dactylorhiza sp. Or salaampanja(5%).		
		Outer sider People extract medicinal plants		
		atearlystage, resulting into extinction of many spp.d		
		ueto lack of Knowledge.		

- Sub-Committeewillparticipateindry stone check dam construction, brushwood checkdamsand bioengineeringworks.
- TakepartinNTFPconservationworks.

5.3 WaterResourcesDetail

Waterres ources	No.	Availabilit yofwater (Months)	Different uses	Current status	Maintaine d by whom	Problems	Opportunities
Silapeak	01	6	Drinking Water	WaterAv ailable	ByVillag ers	OpenS ource	After new construction availabilityof Drinking Water will be IncreasedandApproximately15HHwil lbeBenefited.
Glacierpeak	01	6	Wild Animal	SoilEro sion	By Forest Departmen t	Soil Erosion	Cons.OfBrushwood,Dry&Createwire Check Dam andsidewalls
Glacier water	01	6	Livestock, WildAnimal	SoilEro sion	Villagers&I PHDeptt.	Roof of water tank needs	Check Dams

Wateravailability from natural springs is throughout the year. The natural Sources are maximum Open sources. After new construction and Maintenance of these sources these sources will be maintained for Villagers, Livestock and Wildlife also.

5.4 Agriculture Resources

5.4.1 CultivableLandUsePattern

	Cultivableland	Pasture / othergra zingland	Rain fedland	Cultivable wasteland	Total
Area(ha)	27.53	372.07	9.06	13.14	421.8
% Area(ha)	6.52%	88.21%	2.14%	3.11%	100%

Asperthesecondaryrecordsanareaof27.53hac.isundercultivation.Thereisnoirrigatedlandintheward.Therefore,wholecultivable land is under rain fed&cultivablewasteland.

5.4.2LandHolding Pattern

Category	Number of HHs	%HHs
LandlessHHs	-	-
Absentee farmer	-	-
Small&Marginal farmers(1-5 bigha)	11	34
Medium/large Farmer(6-15Bigha)	21	66

Nolandless

34 % of the farmers belong to small & marginal category 66 % of farmers are medium

farmers. Thereare no Landlessand absentee farmers.

5.4.3CroppingPattern

Major Crops	No.	Irrigated/Rain	Unit	Average		%	Reasons, if	PerceivedSolution
	ofFarme	fed	ofYiel	CropYie	District/State	Deficit	lowYie	s to
	rsengag		d	ld	averageYield	Yield	ld	improve crop
	ed							yield
Barley	32	Rainfed	Qtl/hac	14.45	16.72qtl/ha	2.75	Lack of	Provision
							irrigationNouseof	ofirrigationProvi
							HYYLess use of	degoodqualityse
							FYMPoor	edsSoilTestingNu
							cropmanagemen	trientaddition
							t	accordingly
GreenPeas	32	Rainfed	Qtl/hac	65	76.6qtl/ha	11.6	Unbalanced use	Sameasabove
							offertilisersShorta	
							ge of labourLow	
							use of	
							FYMPowdery	
							mildew	
							disease	
							Highseedrate	
							Low germination	

Potato	32	Rainfed	Qtl/hac	75	86.88qtl/ha	11.88	Unbalanceduseof	High yielding
							fertilizersUntimel	verities
							yapplication	
							of	
							inputs	
							Lack of	
							plantprote	
							ctionmeasuresDiff	
							erences	
							infertility	
							ofsoilLow use of	
							FYMLocal seed	

- 32HHsin the Sub-Committeeare involvedin Cash cropscultivation (Barley, pea, potato,).
- Allcrops grown underrain fedconditions.
- Average yield of crops is as per primarystakeholder's information.
- State averageyieldofcrops isaspersecondarysource(CSKKVPalampur)website.
- Theaverageyieldofcropsgrownislesscomparedtothedistrictaveragebecausethecultivationpracticesaretotallydependent on rains.
- Village levelaverageproduction isasper villagersviewpoint.

5.4.4ChallengesofCultivableLand

Majorchallenges	Currentstrategiestodealwithch	Usefulness the
	allenges	of
		currentstrategies
Poorsoilfertility	Application of	Moderatelyuseful
	FYMApplication of chemical	
	fertilizers	
Soilerosion (low	C/o RR stonemasonrystructures	Moderatelyuseful
Soil erosion (medium)	C/o RR stonemasonrystructures	Moderatelyuseful
Soil erosion (severe)	No severesoil erosionnoticed	
Lowlandproductivity	Application of	Moderatelyuseful
	FYMApplicationofF chemical	
	ertilizers	
	Use of Hybridseeds	
Lowreten moisture	Grass FYM	
tion	mulching, irrigation	
	application, Drip	
	practices	

Lackof irrigation	Irrigation through	PVC	pipes	Lessuseful
	fromwatertanks			
Other-specify				

5.5 Livestock

Resource 5.5.1 Livestock Holdin

gPattern

Туре	Numberof HHs	Average HH	No.ofa nimal	Problems	Opportunities
	involved	holding	s		
Cows	32	7	215	Thelackofcultivat	Potential area
yak	32	1	49	edfodder, use	available
Goats/Shee	32	2	55	oflow	forfod
р	52	2	55	efficiencytools	der
Horse/Mule	32	1	30	and harshcold	plantationAwarene

		winter makethe	SS	
		tasks		camps
		evenmoredifficul	by vet.	
		t.	Departmer	ntExposu
		Lessmilk	re	visit
				tosucce
			ssful areas	

				production	
				Lack of	
				scientificknowled	
				ge	
				of	
				animal rearing	
Total	32	11	349	-	-

5.5.2ProductionofMainLivestock

Туре	Product	Unit ofprod uction	Average yield/pr oducti on	Distric tavera g e	% deficit yield	Reasons for lowyield/ production	
Cows	Milk	Kg	4.0kg	3.9	0.1	Lack of AwarenessDeficiency of Nutrition StallFeeding	Livestockdevelopmen tthroughbreedimprov ement,training,mana gement and veterinaryservices
Crossbreed	Milk	0	3.4	2.4	1.0		

Goats/	3.0	15	15	Low/lessQualityof	
Sheep	5.0	1.5	1.5	Fodder&Grasses	

6 <u>LivelihoodStrategies</u>

6.1 ExistingLivelihood Strategies

	Number of HHdependent						
Sourceoflivelihood		as	Majorconstraints/challenges				
	Primary	Secondary					
	source	source					
Agriculture	32	0	Problem of erosion due to serious Topographical and climatic factors				
			andallabioticPressure				
			${\it Maximumarea} is rainfed; therefore the adoption rate of improved technologies$				
			and inputs by the farmers is less as compared to irrigatedland.				
			Smallandscattered LandHoldingoffarmers				
			Occurrence of natural calamities like drought, Cloud bursts,				
			hailstorm, heavy snowfall, storms, unusual rise in temperature are quite				
			frequentcausing losses to crops.				
			Squeezing of agriculture Lands because of ancestral property				
			division.Low risk bearing capacity and poor purchasing power of the				
			farmers.Low productivityof crops.				
			Increasing Populationofstray animalsandwild animals.				
Forestry	32		Noforest				

			Opengrazing
			Big pressure on pasture land, new seedling for fodder and Fuel
			woodEncroachment
			ShortageoffeedsandFodderduringdry season.
			Traditional method of
Livestock/Animal 32 Husbandry			feeding.Scatteredandlowlandho
	32	0	lding.
			Pooranimalproductivityi.e.lowmilkProduction,largenumberofnon-
			descripttypeanimal, lack ofbreeding bull, Poorextensionservice.
			Wildlife attacks.
			Lackofinterestofnew generation
Wagelabour	32		Workisnoteasilyavailable
Service/Job		5	ShortageofJobs, lackofquality education orskilled
Carpenters	5	-	Its wageworkdepends uponpeoplerequirement.

6.2 Livelihoods-ActivityCalendar

Seasonal	Month	S										
Activities&												
Climatic events												
	J	F	Μ	Α	Μ	J	J	A	S	0	N	D
WageLabour												
Agri/Horticulture												
Grass/Fodder												
Rains												
Snow/winter												
Frost												
Irrigation												
Fuelwood												
Legends												
	Fully C	Occupied	(fullmon	th)								
	Partial	lyOccup	ied									

LivelihoodActivityCalendarshowsthatvillagersarebusythroughouttheyear.However,theworkpressureduringSnowfall /winterislesscomparedtootherseasons.So,the villagersareavailableduring NovembertoFebruarymonthsforMicroplanning /meeting.

6.3 FoodDeficiency(relatestonutrition)

Foodde	% HHs	Duration	Coping strategies
ficiency	withfoo	(Months)	
	d		
	deficiency		
Low	N A		
Medium	N A	-	-
High	NA	-	-

Assuchthereis nofooddeficiency.

6.4 IncomeDeficiency

Incomede	% HHs with	Duration	Coping strategies
ficiency	incomede	(Months)	
	ficiency		
Low	NA		
Medium	NA		
High	NA		

Over all there are no income deficiencies. Drudgery load is high; man and women are busy in working in Agriculture, Animalhusbandry in summer season where as in winter season they are involved in handloom, handicraft practices forsustenancelivelihood.

6.5 PotentialLivelihood Strategies

Sourceoflivelihood	Majorconstraints/challenges	Keystrategies
Green house-	Purchasesaplingsfrom	Vegetable nursery rising by interest
vegetablecultivation/nurs	openmarket,Nonavailabilityof irrigation	group.Dripirrigation,glacierwaterharvestin
eryraising	waterinsummer	g
Handloom	Oldlooms,Marketing	SwitchfromTraditional oldloomstoMordenhandloom
Weaving	Marketingproblem	Training with tools&exposure
Cutting & tailoring	Noexposureandtrainingtowomen	Training with tools&exposure
Collection of NTFP	LackofknowledgeofmoreNTFPandtheirp	$\label{eq:interm} If {\tt ProjectgivesTrainingaboutitthenitwillbefruitfulforwomen. The}$
	rotection	y can increase their income.

7. InstitutionalAnalysis

7.1 ExistingCommunity BasedOrganisation

CBOs	Ageof CBO (Year)	Formal/ Informa I	Registere d(Yes/No)	Objectives	Membershi P	Keyac tivities	Credibil ity ofCBO	External linkages	Useful forthe project
Sub- Committee BMC	14/10/ 2020	Formal	Yes	Project/Forest Objective		Participatio ninJICA Project	Newly Formed	Yettobees tablishe d	Yes
Mahila Mandal/SHG	NA								
Kisham Mnadal	NA								
YuvakMandal	NA								

Allabove mentionedcommittees/groupswouldbe of immense helpto Projectand their involvement would be helpful in implementation of project activities. Representatives of these committees will be included in BMC Sub-Committees as nominated members

7.2 Preferences for External Linkages (Government institution working under subcommitteearea)

Name			Preference
ofExter	ImportanceoftheEls	RelationshipwithEls	toassociatewi
nal			th
Intuition(EI)			Els
GramPanc hayat	Governmentschemesforfam ilies Roads connectivity through PMGSY Generalhousemeeting	Very helpful inintroducing newschemes Village development	2
ForestDepa rtment	Creatingawarenessforprot ecting forests/ naturalresources.	Cordial relations.Forest guard, Bokeepsonvisitin g	1
		villages	
Veterinary	Health benefits for animals	Notverygood relationship	4
Health	Basic health facilities Healthcampaigns	Health/Ashaworkers are veryinteractive	5
Education	Basic knowledge onClimate change and importance of forests	Veryhelpful	5
Agriculture	Provisionofnew varieties, Awarenesscampaigns	Formal relationship with thedepartment	4
Horticulture	Awareness Camps ProvisionofnewveritiesofFr uitPlants Awarenesscampaigns	Formal relationship with thedepartment	4

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	Veryimportantforwatersup	Relation with	
JalShakti	plyandirrigation	fitteronly, needs	3
		improvement	

Beatkibber&RangeWL Spiti

8. Problem Analysis and

<u>Solutions</u>8.1AnalysedProblems and ScientificSolutions

S.	Problems	Justification of	Root cause	Recommended
No	identified	problemsidentified	analysis	solutions
1	Highcommun	100% of the HHs depends	Depletingsupplyoff	Plantingfodder&grasssp
	itypressure	upon	odder	ecies
	on	forestland	andfuelwoodfrom	Planting fuelwood
	nearbyforestl	forfu	theforestland.	treesPlantingtimberspe
	and	elwood and 75%		cies
		forfodder.Timberisaba		
		sicneedofall		
		households.		
2	Increasingsoi	Soilerosionisalongcont	Medium level soil	Contour
	l erosion	ourlineSoilErosionisof	erosion due to	trenchingDry Stone
	& moisture	medium	glaciers	check
	loss	grade		damMasonrycheckda
				ms
				Check walls
3	Lackirrig of	100%	Water resources	Constructionofwaterhar
	ationcov	percent	includeglacialwater	vesting structures
	erage	cultivablelandbutscarc	usedfordrinking,do	atshila peak
		ityofwater	mesticandwildlife	
			use	
4	Low	AverageyieldofPeaandv	PoorsoilfertilityLack	Organizing
	crop	egetables isless	ofinformationoncro	farmers'
	yield		pproductiontechnol	campsIPM,INMatBMCSub
			ogy	-
				committeelevelLinkage
				sforincreasedinformatio
				n,knowledge
				&technology

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6	Lowincome	Around	AllHHsaresmall&ma	Promotingentrepr		
		34%(11HH)offallinpoor	rginal farmersLow	nurshipSkilldevel		
		BPLcategory	income from	opment		
			agriculture	Promoting income		

			&livestock	generation activities
			Lack of	throughSHGs/CIGs
			employment	Facilitating cluster
			opportunities	basedmicroenterprises
			Lackoffeasible&	development and
			viable business	marketing
			opportunities	Upgrading handloom
			Low level of	and cash crop
			entrepreneurship	cultivation
Com	munityDevelop	mentNeed& Priorities		
7	Wastage of	Water flow at the	Inabsenceof	Construction/repairof
	overflow of	contourlineofglacier	proper	water harvesting
	drinking	water	maintenancebythe	structure/Tanks
	water near		community	
	resources		institutionsandline	
			department	
	ļ			

8.2 PerceivedProblemsandSolutions

S N O	KeyStakeh olde rs	Keyproblemsi dentified bystakeholde rs	NoofH Hsand/ orarea affecte d	Criticalc auses ofthepro blems		Percei solutic		Prioritization ofproblems
1	Women	No	32	Lack		Format	tion	FormationofMM
		Mahila			of	of	MM	anditsregistrati
		Mandal,fueland		Awarene	ess	Capaci	ity	on,
		fodder				buildin	ng	IGAactivities,
		availability at						

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		faroffplaces,lack				programm	Handloom,cash
		ofIncomeGenera				es ,	crops
		tionactivities(IG				plantingfu	promotionPlant
		A).				el,fodders	ing
						pecies	fuel,
						if	fodder,timbers
						possible.	pp., lf
							possible.
2	Wage-	Lackofwagethro	32	Less		May	Wage in
	labour	ughouttheyear			land	be	plantationwork
				holding	gsLa	givenwage	,
				ck		work	Training
					oftr	in	in rope
				aining		projectacti	weavingetc.car
						vitiestraini	pentry,with
						ng	toolspro
						for	vision.
						IGA	
						withtools	

	· _					
3	Farmer	1.Rain	32	1 Lack	Glacierwat	1. Excess
		fedagricultu	ire	ofirrigat	erharvestin	usingwaterha
		2. Lack	of	ionfacilitya	g,awarene	rvesting
		awareness		ndless	sscamps	byconstructin
			of	landhol	by	gwaterharvesti
		agriculturalsch	he	dings2Agric	Agriculture	ngstructure
		mes		ulturestaffl	deptt.	2. Awareness
				essvisit		camps
						onIntegrat
						ednutrientman
						agement, Integr
						atedpest
						management

WildLifeDivision,Spiti

Beatkibber&RangeWL Spiti

			andAgriculture
			deptt.
			Scheme
			etc.
4	Landless	NA	

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8.3Implementation Activities/Interventions

Importantissues	Priorit	Specificactivitiesaspertheagreedsoluti	Benefitting
	yRan	ons	HHs
	k		
Participatoryforest ma	nagemen	it	
Fuelwoodandfoddercol		Rosa macrophylla (wild rose),	Wholecom
lection from far		speciesofHippophae,Myricaria,Salixflab	munity
offareas.		ellaris, S. hastate, S.	
		lindeleyana,Juniperus recurva, Ribes	
		orientale, R.alpestre, Lonicera spinosa	
		(Thapp), L.obovata, L. rupicola,	
		Capparis	
		spinosa,Caraganabrevifolia(Trama).Rho	
		dodendronlepidotum,Coluteanepalensis	
		,Ephedragerardiana,Clematisvernayii,C	
		otoneastermicrophylla etc. The scrub	
		and spinycushions are formed by the	
	1	species	
	1	ofCaragana,Astragalus,Artemisia,Cousi	
		nia, Saussurea, Loniceraand Arnebia. Herb	
		aceouselementisdominatedbythespecie	
		sofAstragalus, Chesneya, Oxtropis,	
		Cicer,Lindelophia,Allium,Rumex,Nepet	
		a,Heracleum,Chenopodium,Artemisia,L	
		actuca,Gentiana,Gentianella,Hyssopus,	
		Pedicularis,Rheum,Aquilaria,Caltha,Ta	
		raxacum,Plantagos,Aconitum,Thymus,D	
		elphinium, Lepidium, Crepis,	
		Mentha,Geranium,Bergenia,Senecioand	
		Mertensia	

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Lessfodder, fueltrees		Chharma, Trama, Thapp, Sia(Wild	Wholecom
in village near	1	rose) Umboo (Myricaria),	munity
byprivatearea.		Junipers, Ribesetc.	
Soil & water conservati	on		
Soil erosion and		Checkwalls, Checkdams	Wholecom
landslide near	5	Gabion wire	munity
Contourline		structuresBio	
		engineeringworks.	
Water		Renovation of existing water	Wholeco
pondconstruction,		bodies,Constructionofpond, WHS	mmuni
Bourirepair	2	etc.	
			ty
CommunityDevelopmer	nt		1
MahilaMandal Bhawan	6	Construction ofMahilaMandal Bhawan	Whole
	0		community
Livelihood improvemer	nt		1
LackofIGA(Incomegene		AsindividualactivitiesCuttingandTailori	32
rationactivities)for		ng trainingneeded.	beneficiari
women and	3	As Group activity Handloom/	es
otheryounggeneration		Ropeweaving, and herbs training need	
at		ed.	
sub-committeelevel			
Miscellaneousactivities	forconve	ergence	1
Footpathconstruction	7	Better accessibility tocommunities.	Whole
tohamlets	1		community
Fuelwood,		Willsupplementindaytodaylocalrequire	Wholecom
FodderPlants	1	ments.	munity
and Medicinal			
plants			
FarmingCamp		Will educate villagers in	Wholecom
	4	latestscientific knowledge	munity
		and exchange	

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	ideas.	
<u> AicroPlan(BMCSub-CommitteeLangcha</u>)		<u>WildLifeDivision,Spit</u> i
	73	

Footpathconstruction	7	Better accessibility tocommunities.	Whole
tohamlets	/		community

8.4 SWOTAnalysisSub-committee

Strength	Weakness
Young&energeticgroups	NoSHGisformed
Clear vision to environment	Limitedknowledgeoftheproject
&climatechange	LackofAwareness(Agriculture,Horticulture&Lives
Equal partition of all	tock)
groupsGender equality	ColdDesertareaDefic
Positive response	iencyofFodder
Water available for	Lack of coordinate with line
IrrigationCash Crop	departmentLackofAwarenessregardingH
Fertilise Land	ygiene
	Shortspanforwork
Opportunity	Threats
Willingnessto learnandexecute	Communityinference indecisionmakingprocess
Highly qualified team connected	Time constraintsduringsummer
with advanced communication	Shorttimespanduetocolddesertregion
technology	Grazing
Wider networking with different	
agencies & government	
departments.Cash Crop	
OrganizeFarmingCamps	
Wellconnectedtoroad	
Highlyscope foreco tourism	

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8.5 Setting the objectives for Development for the project

durationObjectivesfor Forestry Development

- ProtectionandconservationofforestLand
- Propagationforestshrubspecies
- Enhancedvegetative growth
- Enhancedforestcover
- Overallwatersheddevelopmentbyintroductionofmoistureretentio nworks,soilprotectionworks

Objectivesforvillage/community Development

- Sustainablelivelihood
- Reductionofpressureonforestresources
- Assetgeneration
- Convergenceofvariousdepartmentsforoveralldevelopmentofthearea
- Women empowerment
- Introduction toecotourism

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9.

CommunityBasedBiodiversity ManagementPlan

9.0 WhatisBiodiversity?

Biodiversity **isthefoundationof** ecosystemservices **towhichhuman** well-being **isintimately linked.** No feature of Earth is more complex, dynamic, and varied than thelayeroflivingorganismsthatoccupyitssurfacesanditsseas, and no feature is experiencing more dramatic change at the hands of humans than this extraordinary, singularly unique feature of Earth. This layer of living organisms—the biosphere through the collective metabolic activities of its innumerable plants,

animals,andmicrobesphysically and chemically unites the atmosphere, geosphere, and hydrosphere into oneenvironmental system within which millions of species, including humans, have

thrived.Breathableair,potablewater,fertilesoils,productivelands,bountifulseas,theequitabl eclimateofEarth'srecenthistory,andotherecosystemservicesaremanifestations of the workings of life. It follows that large-scale human influences overthis biota have tremendous impacts on human well-being. It also follows that the natureoftheseimpacts, good orbad, is withinthepower of humanstoinfluence.

Forest biological diversity is a broad term that refers to all life forms foundwithinforestedareasandtheecologicalrolesthey perform. In biologicallydiverse forests, this complexity allows organisms to adapt to continually changing environmental conditions and to maintain ecosystem functions.

Forests are critical habitats for biodiversity and they are also essential for theprovision of a wide range of ecosystem services that are important to human wellbeing. There is increasing evidence that biodiversity contributes to forest ecosystem functioning and the provision of ecosystem services.

9.1 WhatisCommunity BasedBiodiversity Management(CBM)?

Community-based biodiversity management (CBM) is a participatory approach to empowerlocal stakeholders as well as the local institutions for managing biodiversity for social,economic, and environmental benefits to communities as well as to the general public.This approach, usually developed by the in-situ conservation approaches and it is focusedon community level issues, enhancing the capacity of communities to analyze livelihoodassets,problems,andtoseekandimplementsolutionswithrespecttouseandconservat ionofgeneticresourcesoflocalbiodiversity.Itrecognizesandsupportslocal

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institutions and communities as legitimate and crucial actors in the national plant geneticresource system, and its role in the wider context of biodiversity and development.Communities are empowered to exercise their rights and secure access and control overtheir genetic resources. The approach is community-centered, strengthens local decisionmaking process and emphasizes local governance in the conservation and utilization of community biodiversity resources.

Documenting spatial patterns in biodiversity is difficult because taxonomic, functional,trophic, genetic, and other dimensions of biodiversity have been relatively poorlyquantified. Evenknowledgeoftaxonomic

diversity, the bestknown dimension of biodiversity, is incomplete and strongly biased toward the species level, mega-fauna, temperate systems, and components used by people. This results in significant gaps inknowledge, especially regarding the status of tropical/temperate systems, marine and freshwater biota, plants, invertebrates, microorganisms, and subterrane an biota. For these reasons, estimates of the total number of species on Earth range from 5 million to 30 million. Irrespective of actual global species richness, however, it is clear that the 1.7-2 million species that have been formally identified represent only a small portion of total species richness. More-complete biotic inventories are badly needed to correct for this deficiency.

9.2 Communitybased BiodiversityManagement Plan(CBMP)

Communitybased BiodiversityManagement Planisa decentralisedprocess where thelocal community is in the centre stage that monitors the resources around it, its use andplans foritssustainability forlong term benefitsfor allsucceedinggenerations.

Thus community basedbiodiversitymanagementplan hastwofactsasmentioned below:

- Communitybasedbiodiversitymonitoring
- Communitybasedbiodiversitymanagementplanning

9.2.1 Community based BiodiversityMonitoring

Qualitativebiodiversitymonitoring:

Community based biodiversity monitoring can be undertaken through both qualitative and quantitative approaches. Qualitative monitoring simply depicts the community perceptions on the availability of resources and its use over as a iddimensional times of the community of the com

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effective and should be used for substantiating more affirmative approaches of biodiversity monitoring.

Sofar, under the PIHPFEM&Lproject intervening geographies, Himachal Pradesh State Biodiversity Board has undertaken the application of Peoples Biodiversity Register Exercises inselected 120 Gram Panchayats¹. The

People'sBiodiversityRegister (PBR) is a designed tool for the formal maintenance of the local knowledge withproper validation. PBR is a record of knowledge, perception and attitude of people aboutnatural resources, plants and animals, their utilization and conservation in a village or aPanchayat. PBR is also proposed as a mechanism to create awareness among the peopleabouttheconditionofplantsandanimalsandtheirconservationandsustainableutilization . This mechanism can bring the people to participate in development planningwhichwould

be ecologicallysustainable and socially justifiable.

People's Biodiversity Register is a tool for collecting and documenting biodiversitydata.Localcommunitiesneedtobeencouragedandtrainedtobetheprincipalpartici pants in this process. When communities maintain their registers, it will fostergreater conservation of this natural resource base. Despite the provisions within theBiological Diversity Act, 2002, which grants due rights to communities, it has not beenfullytranslated intopractice.

FurtheranalysisofPBRspreparedinHimachal Pradeshhas following deficiencies:

- Mostofthe PBRsarenotcompletedfor theprojectareas of PIHPFEM&L
- Whatsoever prepared are still in draft stage and it would take at least more than 6monthstogetcompleted.
- In most of the PBRs, the species recorded are found with "No threats" to greaterextents
- Some formats areunfilledeitherfullyorpartially
- Someformats are vaguely orbroadly filledup anddoesnotsatisfy thespecificneedof theformatsit is meantfor

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¹ PreparatorySurveyonHimachalPradeshForestEcosystemsManagementandLivelihoodProjectinIndia,DraftFinalReport,February,2018.

- ThoughmanyspeciesareoccurringinthetargetedGramPanchayats,manymorespecies areleft and not included in the PBRs
- Noparticipatoryprocesses are adopted during preparation of PBRs and it is found to be the response record of some individuals, not community per se
- Somespeciesarerecordedas"rare"or"declining".Butfieldleveldialoguesonthebiodiver sity revealsotherwise.

Thus it is equally pertinent to quantify the local forest biodiversity through a simple, scientific and participatory manner to substantiate the qualitative indicators on

localforestbiodiversity. Thisisdonethrough the Participatory Vegetation Monitoring where the villagers collect simple quantifiable figures for better decision making inforestbiodiversity management.

Quantitativebiodiversitymonitoring:ParticipatoryForestMonitoring

Participatoryforestmonitoring

(PFM) is an ongoing process where local forest users systematically record information about reflect their forest, on it and take managementactioninresponsetowhattheylearn.ParticipatoryForestMonitoring(PFM)forcom munitybasedForestManagementsupportstheVillageForestDevelopmentCommittees (VFDCs) Himachal Pradesh for planning and managing in their forests. ThePFMwasplannedtodevelopparticipatorymonitoringofforestresourcesatlocalcommunityle velwhichenvisagesinvolvinglocalinstitutions(VFDCs)andotherstakeholder groups such as HPFD² staffs, Project staffs³, NGO⁴s if any, youth clubs, EcoClubs etcinidentification ofresources, planning for utilization and regeneration of resources, and adaptive management of forests. The basic objectives of PFM is to developpeople centric monitoring system, in which local people should have better understanding f resources around, followed by assessing the status and planning for sustainable use of them. ProcessofParticipatoryForestMonitoring:

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² HimachalPradeshForestDepartment

³ProjectforImprovement ofHimachalPradeshForestEcosystemsManagement& Livelihoods(JICAsupported)

⁴NonGovernmentOrganisations

Preparationof Resource Map:

Since Biodiversity monitoring is a segment of Micro plan prepared through participatoryrural appraisal which also integrated the social and resource mapping. The resourcemapping also included the forest mapping with nomenclatures of different zones withincommunity forests. These forest patches act as different strata for sampling. Sampling offorestvegetationwas donethrough sampleplots of differenttypesofplantforms. *Samplingof forest vegetation*:

Ecological data collection of PFM is basically to understand the change in vegetationstatus due to protection and management of the forests by the community. The

variousparametersthatcanbeaddressedarestandingbiomass, biomassgrowthrates, harvestabl e timber volume, species diversity, species density, regenerationstatus of herb, shrub and tree species, and level of disturbance by way of illegal felling, pest and diseases and survival rates.

Shrubs: Shrub plots include perennial shrub species but with height above 1.5 m. Shrubplots arenormally smaller insize than treeplots, but thenumber could beat leastdouble that of tree plots to account for the likely heterogeneity of shrubs and youngertrees. Shrub plots are located inside the treeplots, at the rate of two per treeplot.Shrubplot numbercanbetwoper treequadratand the sizecan be 5m X 5m.

Herbsandgrass: Annualherbsespeciallyofmedicinalpropertyandgrassbiomassproduction can be estimated by laying quadrats. Normally, herb layer plots will be of size1 X 1 m and the number is at least double that of shrub plots. Parameters to be recorded include; species name, number of plants and number of herbs / grasses destroyed or disturbed due tonatural and anthropogenic reasons.

9.2.2 Data on qualitative and quantitative data on Community based BiodiversityMonitoringwithin Langcha BMCSub-Committeezone

<u>Qualitativedata</u>

BasedonthePBRinformationfollowingstatusonfloraandfaunacouldbetraced. Thesestatuses of floraandfaunaarementionedinfollowing table -9.2.2 below:

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SlNo	Majoritem	Sub-items	Nameoftheitemwith	Issues
			scientificnames	
1.	Agro-	Agriculture	Barley(Hardeum vulgare)	Present
	biodiversity	(Crop		
		diversity)		
2.			Pea(Pisumsativum)	Present
3.			Potato (Solanum	Present
			tuberosum)	
	Wildbiodive	Trees,sh		
	rsity	rubs,her		
		bs,climb		
		ers,		
		tubers,		
		grassesetc		
1.			Abeliatriflora	Present
2.			Loniceraangustifolia	Present
3.			Andrachnecordifolia	Present
4.			Lonicera asperifolia	Present
5.			Astragaluscandollianus	Present
6.			Lonicerabracteata	Present
7.			Astragalus rhizanthus	Present
8.			Lonicera discolor	Present
			Berberis aristata	
9.			Lonicera govaniana	Present
10.			Berberis ceratophylla	Present
11.			Loniceraheterophylla	Present
12.			Berberischitria	Present

Table-9.2.2: Issues identified based on Peoples Biodiversity Register⁵

⁵SUB-STATESITEBIODIVERSITYSTRATEGYANDACTIONPLAN(LAHAUL&SPITIANDKINNAUR)TRIBALDEVELOPMENT DEPARTMENT, H.P. SECRETARIAT, SHIMLA-2 & STATE COUNCIL FOR SCIENCE TECHNOLOGY ANDENVIRONMENT, 34 SDACOMPLEX, KASUMPTI,SHIMLA-9

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13.	Lonicerahispida	Present
14.	Berberis concinna	Present
15.	Lonicera hypoleuca	Present
16.	Berberisjaeschkeana	Present
17.	Loniceramyrtillus	Present
18.	Berberis kunawurensis	Present
19.	Lonicera obovata	Present
20.	Berberislycium	Present
21.	Liniceraparvifolia	Present
22.	Berberispachyacantha	Present
23.	Loniciera quinquelocularis	Present
24.	Berberis petiolaris	Present
25.	Lonicieraspinosa	Present
26.	Berberisumbellata	Present
27.	Lonicierawebbiana	Present
28.	Bosia amherstiana	Present
29.	Myricaria elegana	Present
30.	Buddleia paniculata Pr	
31.	Myricariagermanica Pr	
32.	Capparis himalyensis	Present
33.	Myrsineafricana	Present
34.	Capparisspinosa	Present
35.	Osbeckia stellata	Present
36.	Caraganabrevispina	Present
37.	Periploca calophylla	Present
38.	Caragana gerardiana	Present
39.	Plectranthus rugosus	Present
40.	Caraganaversicolor	Present
41.	Potentilla fruticosa	Present
42.		Present

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43.	Colutea multiflora	Present
44.	Prinsepiautilis	Present
45.	Colutea nepalensis	Present
46.	Prunusjacquemontii	Present
47.	Cotneaster acuminata	Present
48.	Rhamnua prostrata	Present
49.	Cotneaster rosea	Present
50.	Rhamnus purpurens	Present
51.	Cotneasterthamsoni	Present
52.	Rhamnus triqueter	Present
53.	Cotoneasterbacillaris	Present
54.	Rhamnus virgatus	Present
55.	Cotoneasterduthieanus	Present
56.	Rhododendron anthopogon	Present
57.	Cotoneasterfalconeri	Present
58.	Rhododendron	Present
	campanulatum	
59.	Cotoneastergilgitensis	Present
60.	Rhododendronlepidotum	Present
61.	Cotoneastermicrophylla	Present
62.	Rhuscotinus	Present
63.	Cotoneasternummularia	Present
64.	Rhuspunjabensis	Present
65.	Cotoneasterobovatus	Present
66.	Ribesglaciale	Present
67.	otoneasterobtusus	Present
68.	Ribes grassularia	Present
69.	Cotoneaster pruinosus	Present
70.	Ribesnigrum	Present
71.	Crataegussonarica	Present

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72.	Ribesorientale	Present
73.	Daphne mucronata	Present
74.	Ribesribrum	Present
75.	Desmodium concinum	Present
76.	Rosabrunonii	Present
77.	Desmodiumfloribundum	Present
78.	Rosa eglanteria	Present
79.	Desmodium natans	Present
80.	Rosa macrophlla	Present
81.	Desmodium oxphyllum	Present
82.	Rosaminor	Present
83.	Desmodiumpodocarpum	Present
84.	Rosa webbiana	Present
85.	Desmodium pseudo-	Present
	triquestrum	
86.	Rubus biflorus	Present
87.	Desmodiumtilaefolium	Present
88.	Rubusbiflorus	Present
89.	Deutziacorymbosa	Present
90.	Rubusellipticus	Present
91.	Deutzia staminea	Present
92.	Rubuslasiocarpus	Present
93.	Elaeagnusparfiflora	Present
94.	Rubuspurpureus	Present
95.	Elaeagnus umbellata	Present
96.	Sabia campanula	Present
97.	Elsholziapolystachya	Present
98.	Salixhastata	Present
99.	Ephedragerardiana	Present
100.	Salix lindleyana	Present

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101.	Euonymus echinatus	Present
102.	Salixoxycarpa	Present
103.	Euonymusfimbriatus	Present
104.	Salixpycnostachya	Present
105.	Euonymus monbeigii	Present
106.	Skimmialaureola	Present
107.	Euonymus tingens	Present
108.	Sorbariatementosa	Present
109.	Ficus foveolata	Present
110.	Sorbusaccupania	Present
111.	Gaultheriatrichophylla	Present
112.	Sorbuslanata	Present
113.	Hamiltonia suaveolens	Present
114.	Sorbusursina	Present
115.	Hippophae rhamnoides	Present
116.	Spireacanescens	Present
117.	Hippopaesalicifolia	Present
118.	Spireasorbiflolia	Present
119.	Hippopaetibetana	Present
120.	Staphyleaemodi	Present
121.	Hydroangeaanomala	Present
122.	Strobilanthes alatus	Present
123.	Hypericum cernuum	Present
124.	Strobilanthes	Present
	atropurpurens	
125.	Hypericum patulum	Present
126.	Strobilanthes dalhousianus	Present
127.	Incarvilleaarguta	Present
128.	Strobilanthesglutinosus	Present
129.	Indigofera gerardiana	Present

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130.			Strobilantheswallichii	Present
131.			Indigoferaheterantha	Present
132.			Symplocos crataegoides	Present
133.			Inulacappa	Present
134.			Syringaemodi	Present
135.			Inulacuspidata	Present
136.			Tamaricariaelegans	Present
137.			Jasminumhumile	Present
138.			Verbascum traipses	Present
139.			Jasminumofficinale	Present
140.			Viburnumcotinifolium	Present
141.			Juniperuspseudo-sabina	Present
142.			Viburnumnervosum	Present
143.			Juniperusrecurva	Present
144.			Viburnumstellulatum	Present
145.			.Leptodermislanceolata	Present
146.			Viscumalbum(Epiphyte	Present
			ontrees)	
147.			Lespedezaeriocarpa	Present
148.			Wickstromia canescen s	Present
149.			Loniceraalpigen	Present
	Medicinal	Medicinal		
		Plants		
1.			Allium	Present
			carolinianum	
2.			A. jaquemontii	Present
3.			Arnebia	Present
			euchroma	
4.			Achillea	Present
			millefolium	

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5.	Artemisia	Present
	brevifolia	
6.	Bergenia	Present
	stracheyi	
7.	Betula	Present
	jaquemontii	
8.	Carum carvi	Present
9.	Corydalis	Present
	govaniana	
10.	Dactylorrhiza	Present
	hatagirea	
11.	Ephedra	Present
	gerardiana	
12.	Gentiana	Present
	Kurroo	
13.	Gentanella	Present
	moorcroftiana	
14.	Colchicumluteum	Present
15.	Hyoscyamusniger	Present
16.	Heracleum	Present
	condicans	
17.	Hyssopus	Present
	officinalis	
18.	Juniperus	Present
	communis	
19.	Juniperus	Present
	macropoda	
20.	Malva	Present
	rotundifolia	
21.	Onoma	Present

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			hipidum	
22.			Taraxacum officinale	Present
	Wildani	Mammals,b		
	mals	irds, reptile		
		s,amphibia		
		n,insects,		
		others)		
1.			lbex (Capraibex	Present
			siberica)	
2.			Snow Leopard	Present
			(Panthera unica)	
3.			HimalayanBlueS	Present
			heep(Pseudois	
			nahyaur)	
4.			Tibetian Wolf	Present
			(Cannislapus)	
5.			Red Fox(Vulpus	Present
			valpus)	
6.			Wooly Hare	Present
7.			HimalayanCh	Present
			ough(Phyrho	
			corax	
			gracumus)	
1.	Birds		Snow	Present
			Pigeon	
			(Columbia	
			rupestris)	
2.			Snow	Present
			cock	
			(Tetragallus	
			himalyensis)	

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3.	Vulture(Nephron Prese	ent
	persnopterus)	
4.	Ducks (Avthva Prese	ent
	ferina)	
5.	Murgabi (Anas Prese	ent
	crecca)	
6.	Himalayan Prese	ent
	crow(Corvus	
	tibeteana)	
7.	Picca(Ochotona Prese	ent
	rovlei)	
8.	Raven (Corvus Prese	ent
	corax)	
9.	Golden Prese	ent
	Eagle	
	(Aquila	
	chrysaetos)	
10.	Griffan (Gyps Prese	ent
	himalayansis)	
11.	Red Start Prese	ent
	(Phoenicurus	
	orchruros)	
12.	HoopeChakor Prese	ent
	(Alpalectoris	
	chakor)	
13.	DoveHima Prese	ent
	layanFinch	
	es(Cardue	
	lis	
	cardduelis)	

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9.2.3 ResultsonqualitativeandquantitativedataonCommunitybasedBiodiversityMonitori ngwithin Langcha BMCSub-Committeezone

<u>Qualitativedata</u>

AnalysisofthePBRandcorrespondingabovetablerevealsthatthereare3majorAgriculture crop types namely Pea,Barley, and Potato of plants needs conservationattention. Other then it, 149 wild plants biodiversity include the Shrubs, herbs, climber,tuber, and grasses are recorded similarly, there are 7 species of wild animal and 13species of birdsare presentwithin BMC Sub-Committeeareas.

These management scopes on these plants and animals discussed with the villagersincluding BMC sub-committeemembers, women members (who are theprimeforestusers) and public in general for their perception and options on their improvement of

thepopulations. The identified scopes of population increase have been described in table-

9.2.2 below.

<u>Quantitativedata</u>

- Thepatchesareverylessinspeciesdiversity.
- Treesareabsent
- The density of shrubs is dominant, but found inscattered way.
- Anthropogenic pressures on shrubs are quite much. This could be a fact as a resultof dependencyof the community on the forests and better vigilof HimachalPradeshForest Department.
- The shrubandherbspeciesarerepresentedwellduetoopencanopy.
- The canopyofthevegetation representspredominantlyopencategory.
- Naturallyspeciesaredeficientofsuccessfulestablishmentsandhenceneedexternal support.

9.2.4 PlanningonCommunitybasedBiodiversityManagementwithinLangchaBMCSub-Committeezone

GapPlantationwithreferencetoParticipatoryVegetationMonitoring:

Plantationofdegradedpatches withappropriatesmultipletree species:

• Plantationof multiplespeciesis aneed

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- Afforestation/Enrichmentplantationunderdifferentschemesneedstobeexecuted on priority basis. It would advisable to plant at least 1100 saplings / hamodelwithreference todifferentlandrelatedcasualties.
- Plantation and maintenance of the planted species is absolutely essential sincenatural regeneration is inadequate.
- Shrub species within the tree spacing may be planted with economically importantshrubspecies.

Dataandmapon interventionAreas/Treatmentplots

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 andProject guidelines. The forests have been visited by team again and again and as per thesiteconditionstreatmentplotshavebeenprescribed. Thenallatreatment, soil conservation works are applicable in this Sub Committee area. Local ghazis are quite wellmaintained one plot with patch sowing has also been prescribed. Fencing part has beencriticallyanalysedkeeping inview local conditions as well as biotic pressure and according lyp rescribed. Total 6 Haccommunity land have been identified.

Table:9.2.4 Plotwisedetailsof Sub-Committee

S. No	Plot name	Plot No	Area	Latitude longitude	PFM mode	FDmode
1	Langchaward	1	6	32°45'42" 78°22'16"	Yes	

9.2.5 <u>Biodiversity ManagementwithreferencetoBiodiversityStrategyandactionplan</u> <u>):</u>

The vulnerable species as identified under the PBR Exercises were discussed with the BMCSub-Committeemembersandpossiblemanagementstrategieswereexplored.(Reference: sub-state sitebiodiversitystrategyandactionplan(Lahaul&spitiandkinnaur)tribal development department, H.P. SECRETARIAT, SHIMLA-2 & STATE COUNCIL FOR SCIENCE TECHNOLOGYANDENVIRONMENT,34SDACOMPLEX,KASUMPTI,SHIMLA-9)

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S. No.	Categories	Name of theitem with	Status as	Management
		scientificnames	perPBR	prescribedby
				theBMC Sub-
				Committee
				members
1.	Agriculture	Pea(Pisumsativum)	Present	Provisioning
	(Cropdiver			ofseedsfromgo
	sity)			vernment
				sources
2.		Barley(Hardeum vulgare)	Present	Provisioning
				ofseedsfromgo
				vernment
				sources
3.		Potato	Present	Provisioning
		(Solanumtubero		ofseedsfromgo
		sum)		vernment
				sources
	Horticulture	NA	NA	
	Medicinal			
	Plants			
1.		Alliumcarolini	Past -	Protection
		anum/Laot,Ja	MoreNow-	offorest
		ngli,Lahasum/	Less	patchesthroug
		Konche,Pharna		hcommunity
				participation
				Protection
				offorests
				fromforestfir
				es
				Prohibition
				offorests
				from

				grazing
				pressures
2.		A. jaquemontii/	Past -	Protection
		Khamet,Ratan jot	MoreNow-	offorest
		,,	Less	patchesthroug
				hcommunity
				participation
				Protectionof
				forests
				fromforestfi
				res
				Prohibition
				offorests
				fromgrazingp
				ressures
3.		Arnebiaeu	Past -	Protection
		chroma/Kh	MoreNow-	offorest
		amet,Rata	Less	patchesthroug
		njot		hcommunity
				participation
				Protectionof
				forests
				fromforestfi
				res
				Prohibition
				offorests
				fromgrazing
				pressures
4.		Achilleamill	Past -	Protection
		efolium/	MoreNow-	offorestpatch
		Gandana,	Less	es
				through
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				•••
		Millfoil/		communityp
				articipation
5.		Artemisiab	Past -	Protection
		revifolia/N	MoreNow-	offorests
		urcha,	Less	fromforestfir
		Seinki		es
6.		Bergenias	Past -	Prohibition
		tracheyi/	MoreNow-	offorests
		Gatikpa,P	Less	fromgrazingp
		ashand		ressures
		bhed		
7.		Juniperuscomm	Past -	Protection
		unis/Hauber,D	MoreNow-	offorest
		huppi	Less	patchesthroug
				hcommunity
				participation
				Protectionof
				forests
				fromforestfi
				res
				Prohibition
				offorests
				fromgrazing
				pressures
8.		Taraxacum	Past-More	Nodecliningis
		/KhurmangDandelion	Now-	seen in
			normal	thisforestar
				ea
	Trees,			
	shrubs,			
	herbs,			

	climbers,			
	tubers,gra			
	ssesetc			
1.		Rosa macrophylla	Past -	Provisioning
		(wildrose),	MoreNow-	ofnurseries
		(with use),	normal	ondiscries
			normat	In-situ
				cultivation
				Provisioning
				ofwatersource
				sforits
				propagation
2.		Hippophae	Past-More	Provisioning
			Now-	ofnurseries
			normal	
3.		Myricaria	Past-More	In-situ
			Now-Less	cultivation
4.		Salixflabellaris	Past -	Provisioning
			MoreNow-	ofnurseries
			Less	
5.		Juniperusrecurva	Past -	Provisioning
			MoreNow-	ofwatersource
			Less	sforits
				propagation
6.		Ribesorientale	Past -	Provisioning
			MoreNow-	ofwatersource
			Less	sforits
				propagation
7.		Colutea nepalensis	Past -	Provisioning
			MoreNow-	ofnurseries
			Less	In-situ

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			cultivation
8.	Ephedragerardiana	Past -	Provisioning
		MoreNow-	ofnurseries
		Less	In-situ
			cultivation
9.	Cotoneastermicrophylla	Past -	Provisioning
		MoreNow-	ofnurseries
		Less	In-situ
			cultivation
			Provisioning
			ofwatersource
			sforits
			propagation
10.	Caragana	Past -	Provisioning
	brevifolia(Trama).	MoreNow-	ofnurseries
		Less	In-situ
			cultivation
			Provisioning
			ofwatersource
			sforits
			propagation
11.	Caragana	Past -	Provisioning
		MoreNow-	ofnurseries
		Less	In-situ
			cultivation
			Provisioning
			ofwatersource
			sforits

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				propagation
40		Astropolius	Deet	
12.		Astragalus,	Past -	Provisioning
			MoreNow-	ofnurseries
			Less	In-situ
				cultivation
13.		Artemisia	Past -	Provisioning
			MoreNow-	ofnurseries
			Less	In-situ
				cultivation
				Provisioning
				ofwatersource
				sforits
				propagation
14.		Cousinia	Past -	Provisioning
			MoreNow-	ofnurseries
			Less	In-situ
				cultivation
15.		Hyoscyamusniger	Past -	Provisioning
			MoreNow-	ofnurseries
			Less	In-situ
				cultivation
				Provisioning
				ofwatersource
				sforitspropaga
				tion
	Mammals,			
	birds,re			
	ptiles,			

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	amphibian,			
	insects,			
	others)			
1.		lbex (Capra	Past -	
		ibexsiberica)	PlentyNow-	Preventionof
			Rare	hunting
				Strongcomm
				unityparticip
				ation
				in protection
2.		Snow	Past -	Prevention
		Leopard	PlentyNow-	ofhunting
		(Pantheraunica)	Plenty	
3.		HimalayanBlueS	Past -	Strongprot
		heep(Pseudoisn	PlentyNow-	ectionrequ
		ahyaur)	Plenty	ired
				inthewild
4.		Tibetian	Past -	Strongcomm
		Wolf	PlentyNow-	unityparticip
		(Cannislapus)	Rare	ation
				in protection
5.		Red Fox	Past -	Prevention
		(Vulpusvalpus)	PlentyNow-	ofhunting
			Rare	
6.		Wooly Hare	Past -	Strongpro
			PlentyNow-	tectionreq
			Rare	uiredinthe
				wild
7.		Himalayan	Past- Plenty	Strong
		Chough	Now-Rare	community

		(Phyrhocorax		participation
		gracumus)		in protection
1.	Birds	Snow	Past -	Protection
		Pigeon	PlentyNow-	inthewild is
		(Columbia	Plenty	required
		rupestris)		
2.		Snow	Past -	Protection
		cock	PlentyNow-	inthewild is
		(Tetragallus	Plenty	required
		himalyensis)		
3.		Vulture	Past- Plenty	Protection
		(Nephronpersnop		inthewild is
		terus)		required
4.		Ducks	Now- Rare	Protectionin
		(Avthva		the wild
		ferina)		isrequired
5.		Murgabi	Past- Plenty	Protectionin
		(Anas		the wild
		crecca)		isrequired
6.		Himalayan	Past -	Protection
		crow(Corvus	PlentyNow-	inthewild is
		tibeteana)	Plenty	required
7.		Picca	Past -	Protection
		(Ochotonarovlei	PlentyNow-	inthewild is
)	Plenty	required
8.		Raven	Past -	Protection
		(Corvus	PlentyNow-	inthewild is
		corax)	Plenty	required
9.		Golden	Past -Plenty	Protection
		Eagle		inthewild is
		(Aquila		required
		chrysaetos)		

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10.	Griffan (Gyps himalayansis)	Now- Rare	Protectionin thewildis

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			required
11.	Red	Past -Plenty	Protection
	Start		inthewild is
	(Phoenicurus		required
	orchruros)		
12.	Chakor	Past -Plenty	Protectionin
	(Alpalectoris		the wild
	chakor)		isrequired
13.	Himalayan	Past -Plenty	Protection
	Finches(C		inthewild
	arduelis		isrequired
	cardduelis)		

Managementstrategiesmatrix:

Gap plantation	Flora management	Faunal management
throughAR/ANR (data	withreferencetoPBR	withreferencetoPBR
collectedthroughparticipato		
ryforest		
monitoring)		
Plantation of degraded	Agriculture:	Wild life
landsthroughAR/ANR	Supply of agriculture	protection:Though species
Minimum:	seedsby Government of	wisemanagement
Tall Block Plantation @	HimachalPradesh on:	practicescouldnotbe
500saplings/ha & ANR	• Barley	gainedfromthe community
Planting@200sampling/ha	(Hordeumvulgare)-	members,broad and
	totalof125kgper/Ha	holisticprotection
	Pea(Pisum	modalities
	Sativum)totalof100.	wereprescribedas below:
	58kg/ha	Preventionofhunting
	• Potato	Strong
	(solanumtuberoru	protectionrequiredi
	m20kg/Ha	nthewild
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	participationin

		protection
		Thiscanbeachievedthrough
		community
		mobilisationandtheirpartici
		pation in
		safeguardingthewildlife.
Desirable:	Provisioning of:	
	Cultivation of	
	RattanJotandJugli	
	Pyaz	

9.4ApprovalofCBMPandotheractivitiesbyGeneral House:-

Sanction / Approval of CBMP by the Bio-diversity Sub-Committee:

General house meeting of Sub-Committee Langcha were organized in Langcha on 10thOctober, 2021 and 12th October, 2021. The meeting was attended by Sub-Committeemembers. (List attached in proceeding register). Following issues were discussed and decision taken:

Micro planning team RFO WL Range Kaza, BO and Forest Guard discussed in detail thevariousinterventionsasincorporated in the draft CBMP of Sub-Committee Langcha Forests.

Members from hamlets (Langcha, Langcha, Komic) expressed that area nearhabitations as well as areas which fall within the grazing zone of migratory graziers needsfencing. The members were assured that the vulnerable points will be taken care of andbarbed 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 cattlefor grazing in open without attendant which may cause damage to the seedlings in theclosed areas. Plots identified were discussed in detail and assigned to two user groups. Inaddition, the participants suggested itemised conservation measures to be taken for eachspecies.

Work to be executed in PFM mode and in FD mode was discussed and finalized. AllPlantations planted by Sub-Committee will be protected by Sub-Committee. Technicalworks,Masonry/Gabioncheckdams,waterharvestingstructures,willbebuiltbyFD.

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Bioengineeringstructures, Drystone Check Damsonsmallstreams, will bed Masonrypondsetc. oneby Villagers.



Pic-: Meeting of the General House on the consensus building

9. 3Memorandum of Understanding (MoU):

Memorandum of understanding (English version) translated in Hindi / local language wasread and explained to all present. The issue of community contribution was discussed indetailandthecommunitymemberssuggested their contribution in following forms:



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Pic -: Meeting of the General House on the consensus building

- All the user group members agreed that they will contribute their Sub-Committeemembershipbeneficiary shareintotheSub-Committeeaccount.
- All members agreed for their contribution in project activities, and decided tocontribute membership fee of Rs. 200. This has to be paid only once. The amountwill be kept in Sub-Committee account and can be used as community share fordoing any other development work with other departments or with project, if Sub-Committee members desire so, otherwise they can use it after project completion. This is important because villagers should feel sense of ownership in works andfurther, they have to maintain and protect forest area / assets for several yearsevenafter completion of project.
- The Micro Plan was finally approved by the General House of BMC Sub-Committeeon dated 10th. October, 2021 (Details written in proceeding register) and amendedfurtheron12st October 2021.
- The MoU was also signed by the president of Sub Committee and DFO WL Kaza ondated12.11.2021(SignedMoUannexedas Annexure-X)

9. 4ProjectSupporttothebeneficiary(SubCommittee)forImplementationofMicroplan

The village levelorganizationwillbebeneficiaryof PIHPFEM&L projectfor:

• Financialsupport

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- Implementation of the approved micro-plan
- Labour wages for Fencing, pit digging, carriages, planting, weeding, mulching ofplantsexcludingthe communitycontribution.
- **Other works** as per approved micro plan (ALL WAGES ARE TO BE PAID BY THE Sub-CommitteebyCHEQUEORBYBANKTRANSFER.NOCASHTRANSACTIONSPERMITTED).
- CDAs: The Community Development Activities as identified by the Sub-Committeeand in conformity with the Project guidelines will be decided and implemented bytheSub-Committee through aconsultative process.

Maintenance:

Beating up operations, weeding mulching in MP plantations for years. Maintenanceoffencefor5years.

• Stockandmaterial:

Stock:qualitynursery raisedplants Material e.g.B.wire,U. nails,fenceposts,Tar/black Japanetc.

• Stationary of SubCommittee

Stationary to Sub-Committee, including stamps, stamp pad, two registers, receiptbook, carbon papers, paper pin, resolution pads, pen, pencil, Darrie, chairs, table, Almirahetc.torun theofficeeffectively.

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9.5 PlantationActivitiesIdentified:

6 NO		Benefiting	iting Area tobecovered(Ha)		Benefiting Area tobecovered(Ha)		a)		
Sr.NO	Activity	HHs	2022-23	2023-24	2024-25	2025-26	2026- 27	2027- 28	
1	TallblockPlantation(FuelandFodderPl antation@500NormalPlantsNormallyIn troductionofsuitablegrassesandlegumes inCommandAreasforimprovingsoilfertili tyTrigonellaemodi,Cicerarietinum,Fest ucarubra,Arnebiaeuchroma,Gentiana Caragana brevifolia,Loniceraspinosa,Salix,Hip pophaetibetanainproject command areas and privatelands.	32	6(Ha)						
2	ANR Planting @200 Plant/Ha. Introductionofsuitablegrassesandlegum es in Command Areas forimproving soil fertility, <i>Trigonellaemodi,Cicer</i> <i>arietinum,Festucarubra,Arn</i> <i>ebia euchroma,GentianaCaragana</i> <i>brevifolia,Loniceraspinosa,Salix,Hippo</i> <i>phae tibetana</i> inprojectcommand areasand private	32	1(Ha)						
	lands. TOTAL		7(Ha)						

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9.5.1 RequirementofPlantingMaterials

			NumberofSamp	olingRequired	(NewPlantati	on)						
Year	Trigonella sp.	Cicer Sp.	Aconogonum sp.	Caragana sp.	Lonicera Sp.	SalixSp.	Hippophae Sp.	Gentiana Sp.	ArnebiaSp.	Dactylorhiza sp.	Source Planting Material	of
2022- 23	2600	1300	900	880	1400	1180	760	780	0	0	nursery	
Total	2600	1300	900	880	1400	1180 Numbero	760 ofSamplingRequ	780 ired(Mainten	0 ance)	0		
Year											Source Planting Material	of
2023- 24	0	0	0	0	0	0	0	0	0	0		
2024- 25	780	390	270	264	420	354	228	234	0	0	nursery	
2025- 26	520	260	180	176	280	236	152	156	0	0		
2026- 27	390	195	135	132	210	177	114	117	0	0		
2027- 28	260	130	90	88	140	118	76	78	0	0		
Total	2210	1105	765	748	1190	1003	646	663	0	0		

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9.5.2 ForestProtection/Silviculture/MaintenanceoperationforthePlantation

Years	Activitiestobetake	Responsibility			
	La	angcha	Project	Sub-Committee	
2022-23	ANRPlanting @200Plants/Ha.	TBPlanting Fuel,Fodder and WildFruitPlantation@1100NormalPlan ts	Yes	Yes	
2024-25	Maint.	Maint.	Yes	Yes	
2025-26	Maint.	Maint.	Yes	Yes	
2026-27	Maint.	Maint. Maint.		Yes	
2027-28	Maint.	Maint.	Yes	Yes	

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9.5.3 PlantationActivityunderPFMMode

Years	Activitiestobetaker	nupSite/Model Wise	Responsibility		
	La	ngcha	Project	Sub-Committee	
2022-23	ANRPlanting @200Plants/Ha.	TB PlantingFuel,Fodderandmedicina l plants Plantation @500NormalPlants	Yes	Yes	
2023-24	Maint.	Maint.	Yes	Yes	
2024-25	Maint.	Maint.	Yes	Yes	
2025-26	Maint.	Maint.	Yes	Yes	
2026-27	Maint.	Maint.	Yes	Yes	
2027-28	Maint.	Maint.	Yes	Yes	

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9.6 SoilandWaterConservation

9.6.1 Soiland WaterConservationWorks(Proposed)

S No	Land	Typeof SWCwork	Nameof the site	Unitofwork	Quantumof work	HHs beneficiaries		Responsibil	ity
							Project	Sub- Committee	Convergence
1	Langchaward community Land/forest land	DryStoneC/dams	Shilla peakconto ur	No.	8	32	Yes	Yes	
			Glacialpeak contour	No.	9	32	Yes	Yes	
			Langchavillage contour	No.	8	32	Yes	Yes	

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S No.	Land	Type ofSWCwo rk	Name of thesite	Unit ofwor k	Quantum ofwork	HHsben eficiaries		PhysicaltargetforSWCactivities					
							2021- 22	2022- 23	2023- 24	2024- 25	2025- 26	2026- 27	2027- 28
1	Sanctuary Area	Dry Stone C/dams	Shillapeak contour	No	8	32	0	4	4	0	0	0	0
			Glacialpeak contour	No	9	32	0	5	4	0	0	0	0
			Langchavillage contour	No	8	32	0	4	4	0	0	0	0

9.6.2 (B)SoilandWaterConservationworks(YearwisePhysicalTarget)

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9.7 Physicaland FinancialPlan(CBMP)

9.7.1 ProposedPhysicalandFinancialPlan

S. No	Proposedactivities	Unit		Total	20	22-23	20	23-24	20)24-25	20	25-26	20	26-27	202	27-28
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
1		1			I		I	I	1	I		I		I	11	
a)	TBplanting@500n ormalplants	На	6	335181	6	335181	о	0	0	0	0	0	0	0	0	0
b)	ANRPlanting200plants /Ha)	На	1	30725	1	30725	0	0	0	0	0	0	0	0	0	0
А	Total(NewPlantation)		7	366006	0	366006		0	0	0		0		0		0
2									•					1		
a)	TBPlanting@ 500normalp	lants		Maintenance												
i)	1st.YearMaint.(6250/Ha.)	На	6	37500	0	0	6	37500	0	0	0	0	0	0	0	0
ii)	2nd.YearMaint.(4250/Ha.)	На	6	25500	0	0	0	0	6	25500	0	0	0	0	0	0
iii)	3rd.YearMaint.(3200/Ha.)	На	6	19200	0	0	0	0	0	0	6	19200	0	0	0	0
iv)	4th.YearMaint.(2200/Ha.)	На	6	13200	0	0	0	0	0	0	0	0	6	13200	0	0

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v)	5th.Year Maint.(2200/H a.)	На	6	13200	0	0	0	0	0	0	0	0	0	0	6	13200
	SubTotal			474606	0	366006	0	37500	0	25500	0	19200	0	0	0	13200
S. No	Proposedactivities	Unit		Total	20	22-23	20	23-24	20)24-25	20	25-26	20	26-27	20	27-28
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
c)	ANRplanting200plants/Ha)		Maintenance												
i)	1 st . Year Maint.(4600/H a.)	На	1	4600	0	0	1	4600	0	0	0	0	0	0	0	0
ii)	2 nd .YearMaint.(3100/Ha.)	На	1	3100	0	0	0	0	1	3100	0	0	0	0	0	0
iii)	3 rd .YearMaint.(2400/Ha.)	На	1	2400	0	0	0	0	0	0	1	2400	0	0	0	0
iv)	4 th .YearMaint.(1650/Ha.)	На	1	1650	0	0	0	0	0	0	0	0	1	1650	0	0
v)	5 th .YearMaint. (1650/Ha.)	На	1	1650	0	0	0	0	0	0	0	0	0	0	1	1650
	SubTotal			13400	0	0	0	46 00	0	3100	0	2400	0	1650	0	1650
В	Total(Maintenance)			488006		366006		42100		28600		21600		14850		14850
S. No	Proposedactivities	Unit		Total	20	22-23	20	23-24	20	24-25	20	25-26	19	9800		
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
4	SMCTrenching															

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a)	SMC works(Preparationofstagg ered GradonialTrenches1mx0. 3mx0.3m)500trenches/H a @ 12375 /Ha	На	6	74250	6	74250	0	0	0	0	0	0	0	0	0	0
D	TotalSMC			74250		74250		0		0		0		0		0
	Total(A+B+C+D)			562256		440256		42100		28600		21600		14850		14850
S. No	Proposedactivities	Unit		Total	20	22-23	20	23-24	20	24-25	203	25-26	203	26-27	202	27-28
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
5																
a)	Soil & WaterConservation(CBM P) Drystonecheckdams	No.	5	100000	0	0	5	100000	0	0	0	0	0	0	0	0
E	Total(S&WC)			100000		0		100000		0		0		0		0
6	WildLife Habitat Improvement									<u> </u>		<u> </u>	<u> </u>			
a)	Cons.Of WaterPond	No.	6	180000	2	60000	2	60000	2	60000	0	0	0	0	0	0
b)	Maint.OfWater Pond	No.	4	40000	0	0	2	20000	2	20000	0	0	0	0	0	0
F	Total(Wildlife Habitat Improvement			220000		60000		80000		80000		0		0		0
	GrandTotal(A+B+C+D+E+ F)			882256		500256		235900		108600		21600		21600		21600

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9.9.2AnnualWorkPlanCBMPFor The 2020-21 yearwise

ProposedActivity	BenefittingHH	UnitofWork	Quantum	Unit	Proposed	Fina	ncialSource	
			OfWork	cost(R	Budget	Project	Convergence	Comm.
				s)				Contribution
TBPlanting@500	32	На	6	55863	335181	Project		Management
normalPlants								
ANRPlanting@200	32	На	1	30725	30725	Project		Management
Plants								
Sub-Total					366006			
Soil&Water								
Conservation								
DryStoneCheckwall	32	No	1	20000	20000			
Sub-Total					20000			
HabitatImprovement								
ConstructionOfWater		No	2	30000	60000			
Ponds								
Sub-Total					60000			
Total					446006			

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10CommunityDevelopment andLivelihoodImprovementPlan(CD&LIP)

S.	Activity	Purposeoftheactivity	HHsto	Community
No			be	contribution
			benefitted	(%)
1	Glacialwater harvesting structure	Onlyrelayonthis watersource	Wholecom munity	10%
2	CommunityP ond for agriculture	Due to climate change,scarcity like situation in summer season	Wholecom munity	10%
3	Solar installation	Lack of proper supply of electricity	Whole community	10%
4	Solid fencingalong withsolarfenc ing	Animallikeyak, cowuse to entert hecropfield and results indestruction of crop, whilesolar fencing is needed to prevent influxof anima lsuch as bluesheep, hare, go at and sheep.	WholeCom munity	10%

Table 10.1- Community Development Activities

Table10.2-Livelihood Improvement Activities& Plan

S.	Activity	Purposeoftheactivity	HHs	Communityc
No			to	ontribution
			bebenefi	(%)
			tte	
			d	
	Threemonthsearlyv	Oftentheyfaceclimatefluctu		
1	arietyseed e.g.	ation;mostofthe	39	10%
	Реа	cropgetssparedleadsto		
MicroP	lan(BMCSub-Committeel angcha)	Beatkibber&BangeWL Spiti		Wildl ifeDiv

MicroPlan(BMCSub-CommitteeLangcha)

Beatkibber&RangeWL Spiti

		hugeeconomicloss.		
2	Carpet Making , yakwoolropemaking	Inwinteroutdooractivities are about null ,theywantsustainedwinters easoninmakingsuchitemsh elpingin boostinglivelihood	39	10%
3	Introduce Koda(F agopyrumesculentu m)	Lack water ,to avoid soildegenerationduetomon oculture,with nutritionvalue	32	10%
4	Conservation ofRatan Jot, Jangli Pyaz,	Illegaltradingdonebyoutsid er	32	10%
5	Modified polyhouse	Foroffseasonvegetable, oldstructurepolyhousesare notdurable	32	10%

UnderCommunity Developmentworks

Activities

 Glacial water harvesting structure: As the whole population of this particularplanning site/ ward have only one source of water i.e glacial water, which

theyusefordomesticpurposes, drinking, irrigation, cattleusesetc. And most importan tly this source do not stay for every season .Often they face watercrisis and they lack other sources as well in Langcha village. So glacial waterharvesting structure would definitely helpineradication of this primary issue.

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Table 10.4-Showing estimated amount forwater tank

S.no.	Particulars of	Length	Breadth	Depth	Volume	Rate	Amount
	work					Rs.	Rs.
	Tank	10	10	10	1000	8Rs	224000/-
					ft ³ 28000/lit	/Lit	
	Number of						224000x3=
	tank						672,000/-
	3						
	20%hikein t area	otalamour	ntforcarria	geof	rawmate	rialin	colddesert
	Thisconstruction	on workca	nbedoneur	ndertheM	GNREGA		

2. Community Pond for Agriculture: The climate change has definitely made thefastmeltingofglaciers, insummerstheygetsufficientwaterfortheiragricultural activities along with their domestic activities but later in otherseason it gets worst to have water .So the particular pond for agriculture use inthiswardis needed.

Table 10.5 Summary of estimate to construct pond.

S.no.	Particulars	No.	Length	Breadth	Depth	Volume	Rate	Amount			
	of work						Rs.	Rs.			
	Pond	1	20m	20m	1m	400m ³ 4 laclit	8Rs/lit	32Lac			
	20%hikein area	tota	lamountf	orcarriage	ofrawma	aterialinco	olddesert				
	TheconstructionofpondcanalsobedoneundertheMGNEGAandwithhelpofAgri cultureDepartmentunderirrigationscheme withsubsidy										

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Solar Installation: As we know the present ward is situated on the height of 4400mThe ward do not have proper supply of electricity ,which makes the barrier for theworking habits of people including their outdoor activities, children education

,peopleworkinginfieldsetc.Solarinstallationcanbetheimmediatesolutionoftheirregula rpowersupply.Peopleoptingforgridconnectedrooftopsolarpanels/powerplantarebein ggiven70percentsubsidy,andsurpluspowerwouldbefurther sold to HPSEBL at the rate of rupees five per unit, which would also add totheincomeoftheindividual,besidesusingfreesolarpower.

Solid fencing along with solar fencing:The farmers of this village claimed thatmostly the yak and cows use to enter the fields and results in destruction of cropswhile solar fencing is needed to prevent influx of animal such as blue sheep, hare, goatandsheep.

S.No.	Particulars	Protected	Perimeterforf	Unit Cost/Rs	CostperRu
	of work/	Area/	encing/		nning
	Models	acre	meter		meter/Rs
	Model1	1	300	161907/-	540
	Model2	2.5	500	210793/-	422
	Model3	5	700	259679/-	371
	Model4	10	1000	407716/-	408
	Model5	20	1400	505489/-	361

Table10.6-Showing estimateforinstallingfencing

The average cost per running meter of 7 rows fence comes to beRs.396/Meter.ThispracticewillbeimplementedbytheDeputyDirectorthroughProjec tImplementingAgency(PIA)inthedevelopmentblocki.eSubjectMatterSpecialist

.In Tribal district, the District Agriculture Officer, Keylong & Assistant ProjectOfficer, Kaza of Lahaul & Spiti Districtwill act as Project Sanctioning Authority aswell as Project Implementation Agencies (PIA's). The PIAs shall be responsible for identification and selection of the potential beneficiaries.

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AsProjectassistance@80%isavailableforindividualfarmersand85%foragroupofthreeor morefarmersforinstallation&CommissioningofSolarElectricPowered Fencing Systems in the Farmer's Fields on the actual work done by theFirm/Company .Project assistance shall be released to the beneficiaries directly orthrough bank, in case the farmer avail loan .The assistance for the installation of Solar Electric Powered Fencing can be released to the company after obtaining satisfactory report from core team and farmers/ a group of farmers. The paymentsshall be worked out on work done actual and its measurement basis in view ofprevailingsiteneedandrequirementdulyverifiedbytheCore Teamconcerned.

LivelihoodImprovement Activities& Plan

- Three months early variety seed e.g Pea: As they have monoculture for agricultureproductivity followed by few months i.e from April to the September month .Thefarmers told if they get early snowfall which makes transportation blocked their cropsget spared and they get huge loss .So if they have early varieties of seeds such as ofPeas they can make it harvest as soon as to get snowfall .And somehow monoculturecan be avoided. The required seeds they can get from Agriculture department ofHimachalPradesh .Whereitcanbe subsidized forfarmers.
- Carpet Making, yak wool rope making: The community traditionally makes the carpetof Yak wool and also the ropes .If the people make it on large scale and get it to becommercialized its surely going to make the people benefitted. As they do not requireany raw material for this activity, it would fit better with livelihood uplift componentwithoutmuchmoney.
- As the most of households rears the Yak so the availability of raw material i.e yakwool is there for practices of carpetand yakwoolropemaking.

IntroduceKoda(Fagopyrumesculentum): ThevillagegrowsonlytheBarley, Peas

,Potato .As per the geographical and climaticconditions IntroductionofKoda(*Fagopyrumesculentum*) can be experimented as this is served asstaple food and being richinaminoacids. This can be also commercialized as otherfood crops.

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The requirement of the koda crop seeds can be fulfilled by the agriculture departmentastheseeds can be provide atsuitable subsidyor prices for the farmers.

• **Conservation of Ratan Jot, Jangli Pyaz:** At Langcha village the local people told thatoutsiders use to do illegal trading of Ratan jot and jangali pyaz which is also unfair

totheBMC.TheBMCandlocalpeoplemustbeawareofthis.Theconcerneddepartments for such activity which includes the conservation of medicinal plants canbetheForestDepartmentas wellasBio-Diversity ManagementCommittee.

Modified Poly house: For off seasonvegetable growththe modifiedpoly houses canbedurableandeffective. Asfewfarmershavetriedgrowingsquashes, carrots, tomatoes, cucumber, cabbage and coriander etc. The only issue with the old polyhouses infrastructure is that these dome shaped don't go with heavy snowfall for longduration .While the roof topped like poly houses are more compatible than domeshaped one. The roof topped one must be with the Covering of Poly ethylene sheet forlongduration.



Himachal Govt 80-85% subsidy. State Government gets approximately 50% subsidy fromCentral Govt. in return. Guidelines for implementing the Mukhya Mantri GreenhouseRenovationScheme(MMGRS)throughDeptt.ofHorticulture,H.P.1.Underthissc heme, 70% assistance for the replacement of poly sheet subject maximum to Rs.44.80/-persq.mtr.asback-endedsubsidywouldbeavailabletotheindividual

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beneficiaries(i.e.Farmers)whoareengagedingreenhousecultivationofhighvalueflowers andvegetablecrops. cost Rs900-1200/-per square meter.

SummaryofHuman Capacity Building

Apart from the ecosystem services, the site also boosts of strong women groups who tryto microfinance their agriculture needs for example seeds for sowing with the help ofSelf-Help Groups (SHGs). However more capacity building is needed within the project aswell as additional support from BDO, Rural development, Tourism Department, NABARDagencies etc. SHG meetings also provide a gender specific platform to discuss other issuesrelated to resources as mostly women are prime usrs of fodder and water for theirhouseholds.

S.	Particulars	No.	No of	Rate	Amt.
No.		Of	Person	Rs.	Rs.
		Group			
1	Refreshment/lunch	10	15	160	22500
	Stationary	10	15	30	4500
	Resourceperson(Honor arium&Travel)	2	4	2500	20000
	Banner &Photography	2	2	250	1000
	Totalfor oneworkshop				48000/-
	Grand Total for 4Workshops				1,92,000/-

Table10.7:SHGLivelihoodImprovement:Tra	iningBudget(twoworkshops ayear)
----------------------------------------	---------------------------------

MonitoringandEvaluation (M&E) Framework

A participatory framework is established to monitor the efforts made by the stakeholders, the flow of Ecosystem services and related forest management goal. The participatory framework will be segregated in two sections as given below:

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- MonitoringandEvaluationbytheForestDepartment(in-house/outsourcedinfrastructure support):This systemwill timely evaluatevegetation andotherrelated ecosystem service flow through GIS -based map of JFM areas, with villageboundaries.
- ParticipatoryUnit:Thiswillbeinstrumentalinprovidinggroundtruthingofvegetationgro wthandrelatedimprovementoftheecosystemserviceflowappropriate protection measures in а frequency of every .This will two years alsoassessthecommensurateimprovementinlivelihoodthroughsocio-economicsurvey .The participatory unit will do the monitoring and evaluation based onclearlyagreedprotocolon rightsandresponsibilitiesofallstakeholdersparties.

MonitoringandEvaluationPlanwithIndicatorsareprovidedinTable1.35

S.N	FES	Measure	Baselin	Target	Indicato	MeansofV	responsibil
о.		stobeMo	е	Value	r	erificatio	ity
		nitore	value			n	
		d					
	Wateri	Availabili	ND	Sufficien	Cropsdon	Recordke	Monitoring
	ncreas	ty of		twaterav	'tdry due	epingbyM	Team
	e	waterflo		ailability	to	onitoring	of
	of	wandsea		duringsu	lackir	team	VillageCom
	waters	sonalitye		mmer	rigation		mittee
	upply	specially			water		
		during			duringSu		
		Summer			mmer		
	Fuel	All	Noplant	At	Continue	Recordke	
	&Fodd	the	ation	list	davailabi	epingof	
	ersupp	blanksar		10%	lity of	the	
	ly	efullysto		increasei	fuel &	number	
		cked		nfodder		of head	
		with		&fuel			

Table10.8:Monitoring and Evaluation Plan

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plantatio	fodder	loads of	
n		fuel	
		£	
		fodder	

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Table .10.11-AnnualWork PlanCBMPForThe2022-23year wise

9.10.1Physical&Financialdeta ilsofCommunityDevelopment WorksProposedActivity	Benefitting HH	Unit of Work	Unit cost (Rs)	Proposed Budget	FinancialSource ProjectConvergence Comm.Contribution
Glacialwaterharvestingtank	32	3	224000+ 20% carriage44800	2,68800/-	Under MGNREGA
Community Pond for Agriculture	32	1	32 lac+ 6,40000/-	38,40000/-	Under MGNREGA
Solarinstallation	32	1		98000/-	FromHimUrja 70% Subsidy
Solidfencing&Solarfencing	32	1	396/meter	1400x396 554400/-	80%subsidyon solarfencing
Total					

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Sr.No.	ProposedActivities	Total	Finance Contribution	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28
1.	SHG Livelihood Improvement:Training Budget(CarpetMaking, yak woolropemaking)	192000/-	JICAwith helpofRDDept&T ourism	96000/-	96000/-	0	0	0	0
2.	Three months earlyvarietyse ede.g.Pea IntroduceKoda	1500/- max.x32	Agriculture Deptt.60% subsidy	48000/-	48000/-	0	0	0	0
3.	ConservationofRatanJot ,JangliPyaz,		ForestDeptt.&H PS BiodiversityBoar d	0	0	0	0	0	0
4.	Modifiedpoly house ,Minimum25squaremet er	900-1200 /- per squaremet er15HH	FromAgriculture Deptt. 70 % subsidy 10% beneficiaries , 20%JICA	300000/- 20% JICA (60000/)-	300000/	300000/	0	0	0
5.	Total			444000	444000	300000			

1012proposedphysical&financialIncomeGenerationActivities (IGA)

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Table 10.13 - Annual WorkPlanCBMPForThe2021-22yearwise

9.11AnnualWorkPlanf	Benefitt	Unit	Unit	Proposed	FinancialSource
or2020-	ingHH	of	cost	Budget	ProjectConvergence
21:CD&LIPProposedAc		Work	(Rs)		Comm.Contribution
tivity					
Glacial	32	3	224000+20%	2,68800/-	Under MGNREGA
water			carriage		
harvestingtank			44800		
Community Pondfor	32	1	32 lac+		Under MGNREGA
Agriculture	JL	•	6,40000/-	38,40000/-	UNDER MONICEOR
			0,400007-		
Solarinstallation	32	1		98000/-	From HimUrja 70% Subsidy
Solidfencing&Solarfen	32	1	396/meter	1400x396	80%subsidyonsolar fencing
cing				554400/-	

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SHG Livelihood	32	192000/-	192000/-	JICAwithhelpofRDDept&Touris
Improvement:T				m
rainingBudget				
Three months early	32	1500/-max.x	48000/-	Agriculture
varietyseed		32		Deptt.60%
e.g.Peal				subsidy
ntroduceKoda				
ConservationofRatanJo	32			Forest Deptt.&
t,JangliPyaz,				HPSBiodiversity
c,Jangth yaz,				Board, JICA
Modifiedpolyhouse,Min	32	900-1200 /-	13500/-	FromAgricultureDeptt.70%sub
imum 25 square		per		sidy10%beneficiaries,
meter		square		20%JICA
		meter15HH		

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11 ConvergenceswithExternalAgencies

ActivitiestobecarriedoutwiththeSupportofOtherDepartments/Projects/SchemesCommunityInfrastructuredevelopment,basichuman needs,agriculture andhorticulture(through Convergence)

11.1 ActivitiesidentifiedforConvergence

S.No	Activities	HHs to bebenefitt	Department/Agencyfor convergence
		ed	
1	Repair ofCommunityHall	32	Panchayat/Block
2	FootPath	32	Panchayat/Block
3	Drain	32	Panchayat/Block
4	Training/FarmingCamp	32	Agri/Horti/AnimalHusbandry
5	Silage(Demonstrationsbasis)	32	A/Hexposure Visit
6	Medicinalplantsharvestingtraining	15	Forest/HorticultureDepartment
7	Training on Eco-Tourism Activities	10	Forest/TourismDepartments

11.2 PhysicalandFinancialPlanforConvergenceActivities

	Activitiesidentifiedfor convergence															
S. No	Proposedactivities	Unit	-	Fotal	2022	2-23		2023-24		2024-25	2	2025-26	2	2026-27		2027-28
			Phy	Fin	Phy	Fin	P h y	Fin	Ph y	Fin	Ph y	Fin	P h y	Fin	Ph y	Fin
1	DryStoneCheck Dam	No.	5	100000	0	0	3	60000	0	0	2	40000	0	0	0	0
2	Dry Stone C/Wall	No.	1	15000	0	0	1	15000	0	0	0	0	0	0	0	0
	TotalConvergence Activity			115000	0	0		75000				40000		0		0

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12ImplementationStrategies

12.1 implementationguidelinesoncomponentsandsub-components

Participatoryforestmanagement

Soil& waterconservation/landslide controlmeasures

Communitydevelopmentand livelihoodimprovementwithgendermainstreaming

12.2 Trainingandcapacitybuildingofcommunity institutions(Sub-Committee,CIG,SHG)

Institution	Areasoftraining/ capacitybuilding	Resource person/group	Locationsforexposure visits
Sub-Committee		Consultant	
ExecutiveC ommittee	Proceeding writingAccount maintainAssetscre ated Role& responsibility of EC	JICA Staff/ Forest Department staff/Consultant	Dehradun,Shimla,Kulu,Kangra

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(CIG	Proceeding AccountmaintainingVal ueadditiontraining	Consultants	Local	/Program manager ruralfinancing
	SHG	Groupformation, Accountmaintaining, Proce eding writing, Bank linkagesetc.	NABARD/Master trainer		

12.3 Year wisedetail oftrainingandcapacitybuildingplan

S. No	Year& Month	Community institution	Subjectoftraining	Noof Participants	Duration	Resourceperson/group
1	2022-2023	ECtrainingExp	Proceeding	7-15	2days	1. Master trainer,
		osure visitCIG	writingAccountmaintaini			FDaccountants
		SHG	ngRole&responsibilityofE			2. Successfulprojectsinsidea
			С	EC	5days	ndoutsidestate.
			Gender	Representative		
2	2022-2023	1.EC	M&E /Socialaudit			FTU- coordinators
		Training2.Cl		3-5	2days	
		G				
		3. SHG				

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3		1.EC	Assetscreated			FTUcoordinators
	2023-2024	Training2.Cl		3-5	1day	
		G				
		3. SHG				

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12.4 ProposedYear WiseTraining

	•			0											
Sr. No	ProposedActivities	Unit	т	otal	202	2-23	20	23-24	202	2024-25		2025-26		2026-27	
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
Traini	ngand CapacityBuildingofCo	mmunityl	nstitutio	ons		<u> </u>									
I	Sub-Committee(EC)Traini	ng													
a)	Proceeding account Maintain	No	2	0	1	0	0	0	1	0	0	0	0	0	
b)	RoleResponsibility,Gend er,Assetscrated	No	3	0	1	0	1	0	1	0	0	0	0	0	
c)	M&E andSocialAudit	No	4	0	0	0	1	0	1	0	1	0	1	0	
	Sub-Total		9	0	2	0	2	0	3	0	1	0	1	0	
	CIGTraining														
a)	ProceedingWriting, AccountMaintaing	No	2	0	1	0	1	0	0	0	0	0	0	0	
b)	Valueaddition	No	4	0	1	0	1	0	1	0	1	0	0	0	
	Sub-Total		6	0	2	0	2	0	1	0	1	0	0	0	
	SHG														
a)	Group Formation, ProceedingWriting	No	2	0	1	0	1	0	0	0	0	0	0	0	
b)	AccountMaintaing,Bank Linkagesetc.	No	2	0	1	0	1	0	0	0	0	0	0	0	
	Sub-Total	No	4		2	0	2	0	0	0	0	0	0	0	

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12.5 Records tobemaintainedbythecommunityinstitutions

S.	Nameoftherecord/re	To bemaintainedbywhom	To be verified
No	gister to be maintained		bywhom
1	Membership register,byelaws,&OT HERRECORDS	President / MemberSecre taryVFDS	FTU Officer/FTU Co- ordinator
2	Proceeding register	Member Secretary VFDS/Joint Secretary	FTUCo-ordinator
3	Cash account register&relatedbook s	Treasurer,Secretary,jointSec retary,	FTUOfficer FTUCo-ordinator
4.	Asset created register	President, Secretary	FTU/Projectrep resentatives.

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ANNEXUREs

MicroPlan(BMCSub-CommitteeLangcha) Beatkibber&RangeWL Spiti

WildLifeDivision,Spiti

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Project for Improvement of Himachal Pradesh Forest Ecosystems Management and Livelihoods

Memorandum of Understanding

Between

The Langcha BMC Sub Committee

And

The Forest Department (represented by DFO Wildlife SPITI) for Participatory Forest

Management.

Whereas

The Langcha BMC Sub-Committee (hereinafter called "Society") has been constituted as per procedure described in the HP PFM Regulations notified by Govt. of HP vide No. FFE-C (9) 1/2001 dated 23.8.2001 and vide No.FFE-B-F (5) 5/2016- Part III dated 19.11.2018, by the Villagers of Langcha BMC Sub-Committee in district lahoul & Spiti and Forest Division Wildlife Spiti of Himachal Pradesh and has an elected Executive

Committee (hereinafter called"EC"); as part of the Japan International cooperation Agency (JICA) supported "Project For Improvement of Himachal Pradesh Forest Ecosystems Management and livelihoods" (hereinafter called "Project") the Micro plan (Forest Ecosystems Management Plan & Community Development & Livelihood Improvement Plan) for Forest Management and Community Development (hereinafter called "Plan") for Forest protection, rehabilitation and management of the specified forest areas has been jointly prepared by the Society and

- 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 usufructs obtained from allocated forest areas and public resources of the ward/village;
- the Plan has been approved by the Officer in Charge of the wildlife Forest Division (here- in after called "Forest Officer") on behalf of Government of Himachal Pradesh;

Now herewith

The Wild Life Forest Division and the Society have mutually agreed on this MoU, and consequently, this MoU is executed with the following articles:

1. Purpose of the Memorandum of Understanding This Memorandum of Understanding (hereinafter called "MoU") details the responsibilities of the Society regarding management and protection of forest area(s) and village(s) resource development, in the manner specified in the Plan and for equitable distribution of benefits amongst its members. It further details payments and support to be provided by the project and the associated conditions.

2. Responsibilities of the Society

- 2.1. With regard to its Constitution, working, powers, duties and benefits, the Society agrees to act in accordance with the HP Government Notification No. FFE-B-F (9) 1/2001 dated 23.8.2001 and vide No.FFE-B-F (5) 5/2016- Part- III dated 19.11.2018, and other relevant Government orders and instructions.
- 2.2. The Society agrees to provide all necessary assistance to the Forest Officer in selection of forest area(s) to be allotted to it for forest management and development so that there is no dispute regarding areas of common use of nearbyvillages.
- 2.3. The Society agrees to prepare and submit general house approved, quarterly physical & financial plans with budget requirements to FTU concerned for releasing funds after Plan's approval from PMU.
- 2.4. The Society agrees to identify Community Development Activities (CDAs) in conformity with the CDA guidelines, decide on these through a consultative process and implement them according to the relevant standards asapplicable.
- 2.5. The Society agrees to carry out works laid out in the Plan for the forest area (such as planting, fencing, maintenance and protection) and in doing so, follow the principles of management of forest and wildlife specified therein, also taking into account the guidelines of the Government, prevalent legal provisions and technical principles. The Society will ensure that no existing acts/rules of forest/wildlife management are beingviolated.
- 2.6. The Society agrees to contribute membership fee through its members/user groups. The amount with interest will be available to VFDS/BMC (Sub-Committee) after project closure and can be used by VFDS/BMC (Sub-Committee) consensus. The amount deposition to be done within six months.
- 2.7. The Society agrees, after completion of the related works, to protect the forest area from fire, illicit grazing, illicit felling, illicit transport, illicit mining, encroachments and poaching and shall help the forest department in this regard.
- 2.8. The Society agrees to pass the information regarding person(s) engaged in harming the wild animals and forests or those engaged in illegal activities on to the Forest Department. The Society agrees to help forest employees in apprehending such person(s) and provide all possible assistance in protecting any seized produce etc.
- **2.9.** The Society agrees to rectify any shortcomings found during review of its works by the Forest Officer/monitoring agency.
- 2.10. The Society agrees to keep accounts of income and expenditure of the funds from various sources and also to get regular annual audits done by the agency assigned by the Forest Officer.
- 2.11. The Society agrees to maintain the records specified by the project regularly and in prescribed formats.
- 2.12. The Society agrees that the distribution of products and services generated as a result of implementation of the Plan among its members/User Groups is done in an equitable manner. If the Forest Officer points out any mismanagement or irregularity in the equitable distribution of such products and services, then the Society agrees to implement the necessary corrections/improvements suggested by the Forest Officer.
- 2.13. Society agrees to ensure that there will be no mis utilization of funds provided by Forest Department for implementing project activities.
- 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).

The funds and maintenance of account would be in accordance with Para-36 to 43 of the 2.15. Bye-laws notified by Govt. on dated 19-11-2018 for Sub-committee under the Project.

3. Responsibilities of the Forest Department

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

4. Support by the Project

- The Project will provide funds for Community Development & Livelihood activities 4.1. (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.
- The Project will provide to the Society members training and other capacity building 4.4. measures, as well as support for income generating activities as specified in the Plan.
- The funds earmarked for Plantations, soil and water conservation, Biodiversity 4.5. conservation etc., willbecredited 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.
- Payment and receipt of project funds will be strictly by means of cheques online 4.6. payment/RTGS etc. or bank transfers to the account of theSociety. Society will further distribute fund similarly.

5. Rights and Benefit Sharing

The Rights of right holders as admitted in the Forest Settlement will remain unaffected 5.1.

due to constitution of the Society and will continue to be exercisedas 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 asfollows:
 - 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.
- 6.2. The EC of VFDS/BMC (Sub-Committee) or any of its members will monitor progress and quality of work during execution of various works. The Member Secretary will record the date, places and names of EC members who checked the work(s) and whether works were satisfactory and any instructions given.
- 6.3. A participatory monitoring committee made up of members of the Society, a member from the Panchayat as well as a representative from the Forest Department (e.g. Deputy RO) will on quarterly basis review objectives, inputs and work progress and report to the whole Society. Their reports will then be sent to the Forest Officer for further action.
- 6.4. Where Society groups have carried out or are responsible for activities like social fencing, fire prevention, plantations or maintenance of plantations, annual monitoring will be carried out by Project-approved monitors (Third Party) and the results of this monitoring linked to release of payments, a) for social fencing in lieu of barbed wire fencing, b) for fire prevention as specified in the Plan and c) for survival in forest plantations as given in the agreed to norms for thatactivity.
- 6.5. Settlement of Disputes: Settlement of disputes and conflict resolution will be governed as laid out under para 47, 48 and 49 of the Bye Laws notified by GoHP.

Memorandum of Understanding

We are aware that the benefits mentioned in this agreement shall be available to the Society only

when it discharges its duties, responsibilities and works in a satisfactory manner and this is certified by the Forest Officer every year. However, if the Forest Officer fails to fulfil conditions mentioned in para 3 and 4 of this agreement and this is a cause for the Committee not able to discharge its responsibilities and works, and then it will be kept in mind while evaluating the works of the Committee every year.

I <u>Phukchck Angelli</u> president, <u>Langeha</u> Joint VFDS/BMC (Sub-Committee), declare on behalf of the Society, that I am committed to follow all the conditions mentioned in this MoU and am signing this memo after reading/understanding all conditions mentioned herein, literally and in their original meaning.

Phunchok Angoluo

(Name and Signature of the President) On behalf of VFDS/BMC (Sub-Committee)

B.M.C. Sub Committee

Divisional Porest Officer Forest Division (on prival f of HPFD) Witnesses: Village Forest Development Society/BMC (Sub-Committee) and The Forest Department for Participatory Forest Management.

1. Kescmy.

2. Sonam.

3.

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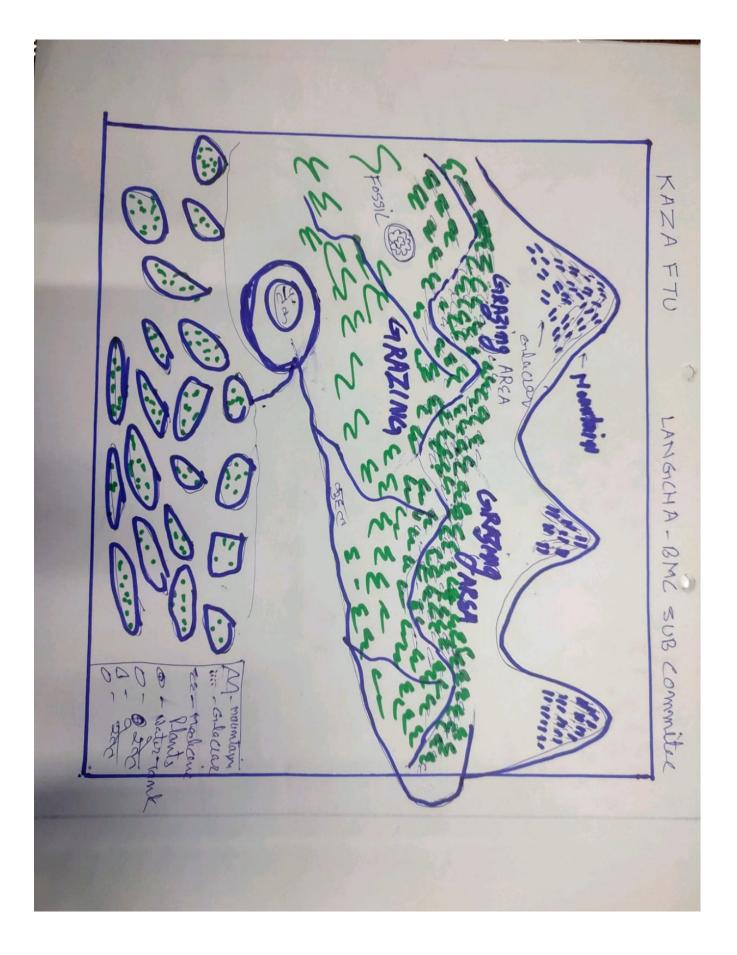
I, Phunchuk Angodui [position] undertake, on behalfof Bmc.comm.hcmgEgrest Department, to implement all duties/responsibilities of the Forest Department mentioned in this memorandum.

DFO WI Spill

(Name and Signature of the Divisional Forest Officer or other officer authorized by

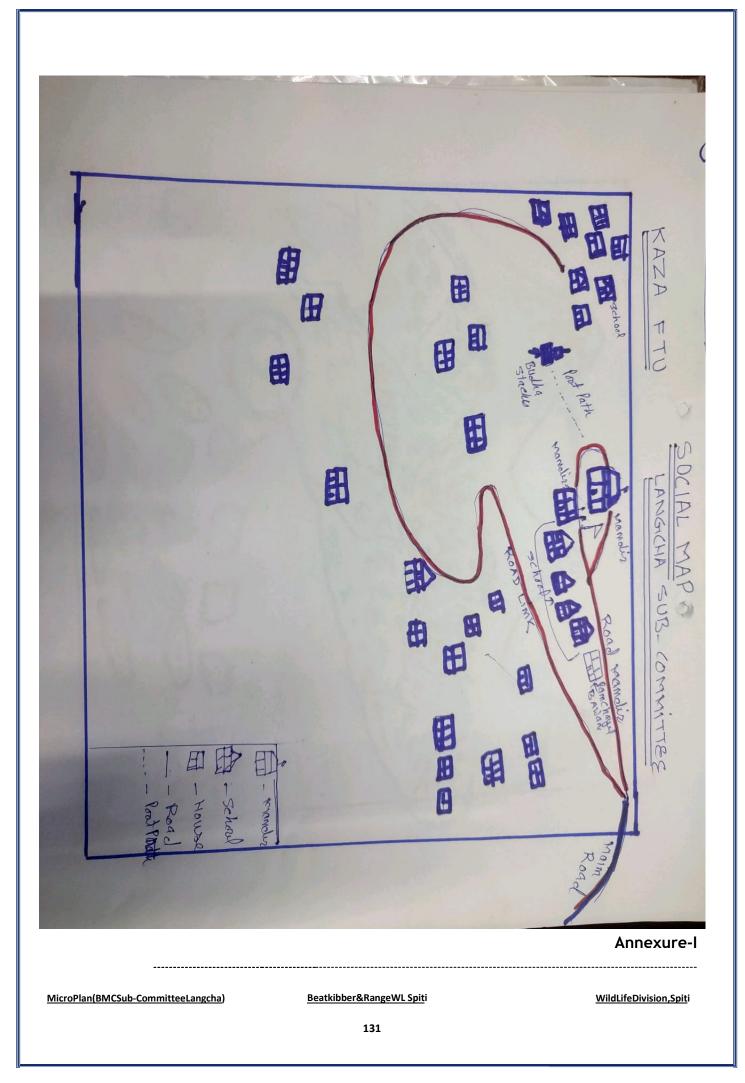
him) On behalf of _____ Forest Department





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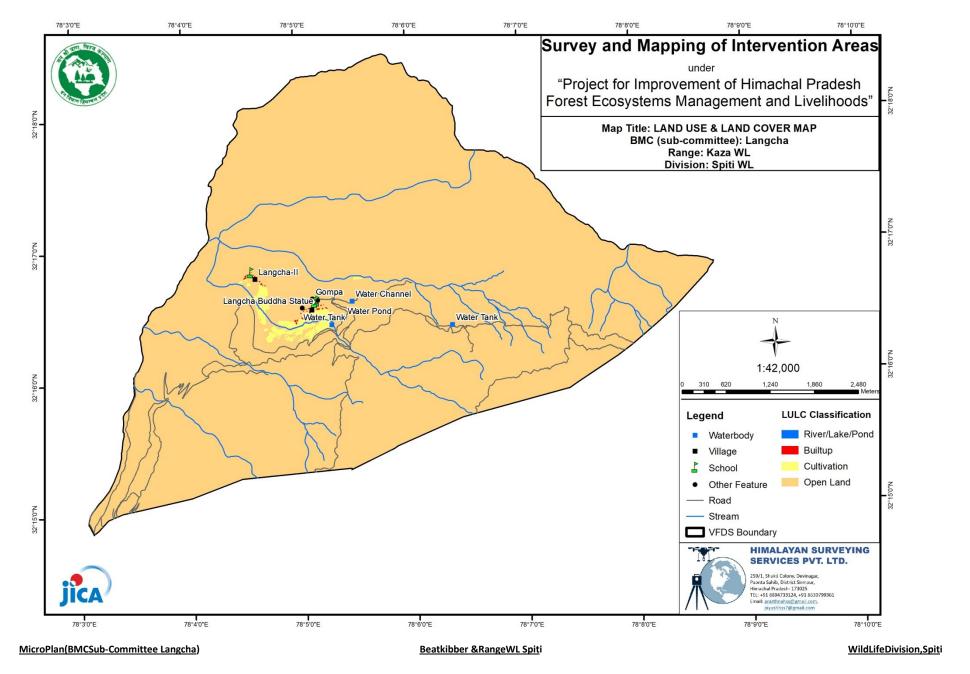


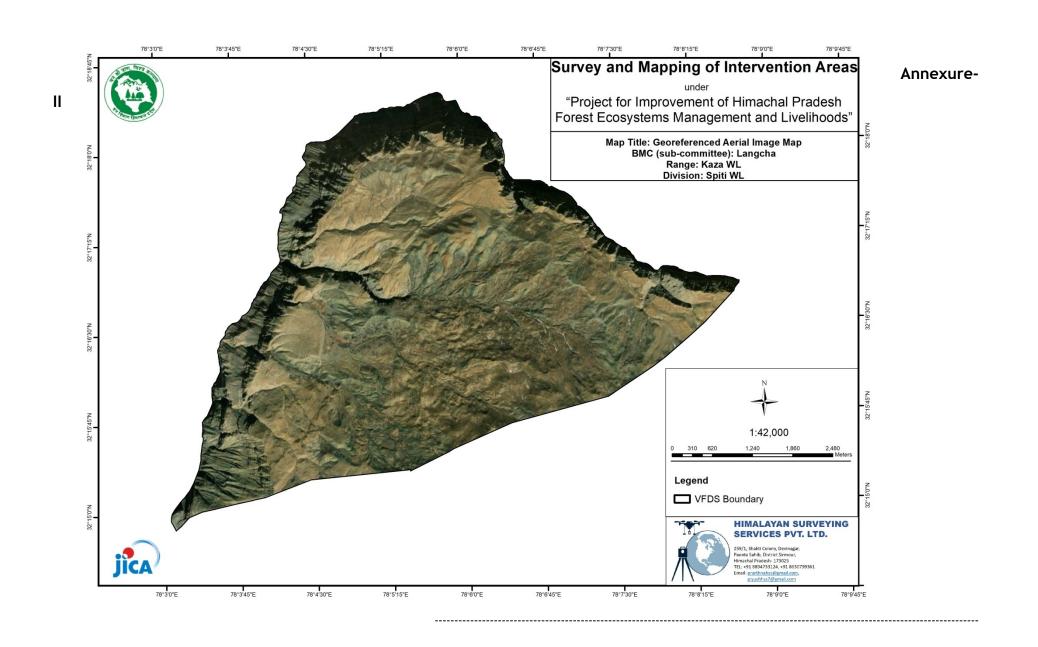
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Annexure-IX

	THE BYE-LAWS
	OF
	The Langcha Village Forest Development Society
Pro	ect for Improvement of HP Forest Ecosystems Management & Livelihoods
	NAME, ADDRESS AND AREA OF OPERATION
	he society shall be called the _BMC Sub Committee Langcha Village Forest opment Society.
It s	hall be referred to here-in-after as the society.
Ang	e registered address of the society shall be C/O Phunchok Angdui S/O Tashi grup Village Langcha Post Office Komic Tehsil Spiti District Lahaul & Spiti 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
i	"Act" means Indian Forest Act, 1927, (Act No.16 of 1927) as amended in its application to Himachal Pradesh;
11	"Conflict Resolution Group" means a group consisting of representatives of the concerned Gram Panchayats, a representative of the local non government organizations or local community based organizations, representative from local/migratory community and the concerned Assistant
iii	Conservator of Forests/Forest official; "common land', "family', "Gram Panchayat', "Panch", "Pradhan "Village" and "Ward" shall have the meanings respectively assigned to the 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.
v	CIG: Common Interest Group refers to a group of persons who have a common interest in a particular Livelihood Improvement Activitiy.
vi	"Department" means the Himachal Pradesh Forest Department.

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Annexure-X

Glimpsesofmicroplanningprocess





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AnnexureXIII

 ${\it MicroPlanAssessment} Criteria for {\it Financing} and {\it Sanction} ing {\it DMU}$

:WildlifeDivision......

FTU:WildlifeRange.....Beat:.....

GP:..... BMCSub-Committee:......

S.NO	AssessmentCriteria	AchievementD D/MM/YY	Statusat thetimeAppling forApproval
	ProcessRelated		
1.	GPLevelandWardLevelawarenessdone	10/10/21	DONE
2.	GPConsent/WardConsenttoworkwithPro jectObtained	13/10/21	DONE
3.	BMCSub-CommitteeFormed/Executive CommitteeConstituted	14/10/21	DONE
4.	BMCSub-CommitteeRegistered	03/06/22	DONE
5.	MOUSignedbetweenDMUandBMCSub- Committee forundertakingmicro- planningand implementation	21/11/22	DONE
6.	EC1 st meetingheldtoexplaintheirroleand responsibilities	07/11/21	DONE
7.	BMCSub-CommitteeaccountOpened	30/11/22	DONE
8.	Percentofhouseholdsrepresentedinmi cro-planningprocess(App.)	50-60%	DONE
9.	PercentofWomenParticipantsinvolvedinmi cro-planningprocess(App.)	60%	DONE
10.	Collected information cross checked and updated in Green Assembly	30/10/22	DONE
11.	Women, Poor, Youthandothercommu nitieswereinvolvedinmicro- planningprocess	YES	DONE
12.	BMCSub-Committeeinvolvedin informationanalysisandfinalizingkeye mergingactivities	YES	DONE
13.	MicroPlan(CBMP,CD&LIP)approvedbyBMCS ub-CommitteeinGeneralAssembly	30/11/22	DONE

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	andconfirmedbyexecutivecommittee		
14.	FormatsprescribedforMP(CBMC,CD&LIP)us		
	ed bysocialand technicalstaff		
15.	TotalamountofCBMP,CD&LIPandconv		07
	ergence mentionedinMicroplan		
16.	Daystakentocomplete	03 Months	DONE
	MP(CBMP,CD&LIP)		
17.	MicroplanSubmittedbyFTUtoDMU	19/11/22	DONE
18.	MicroplanapprovedbytheHeadofDMU	21/11/22	DONE
	Outputrelated		
19.	Listofexecutivemembersattached	Yes	DONE
20.	BMCSub-Committeecontributionisthere	Yes	DONE
21.	AreCBMPandCD&LIPactivitiesinlinewit	Yes	DONE
	hprojectobjectives		
22.	Livelihoodactivitiescheckedforinitial	Yes	DONE
	technicalfeasibilityandeconomicviabilitybym		
	icroplanning team		
23.	Convergenceactivitiesincluded	Yes	DONE
24.	BMCSub-	Yes	DONE
	Committeetrainingandcapacitybuildingaspe		
	ctincluded		
25.	CostingofCBMP,CD&LIPcheckedbyDMU	Yes	DONE
26.	Microplanincludesadverselyaffectedhouseh	Yes	DONE
	olds/group,ifany		
27.	PRAtools, wellbeing analysis, BMC sub-	Yes	DONE
	committeeresolution,mapsofCBMPandoth		
	erdocumentsareannexed		
28.	Sourcesofsecondaryinformation	Yes	DONE
	mentionedImicroplan		

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AssessedbyFMU

RecommendedbyDMU

ApprovedbyPMU

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